API Well Number: 43013524860000

**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 X-22-9-15

**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-66185

**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 | 455 FNL 565 FWL | NWNW | 27 | 9.0 S | 15.0 E | S |
| Top of Uppermost Producing Zone | 175 FNL 941 FWL | NWNW | 27 | 9.0 S | 15.0 E | S |
| At Total Depth | 44 FSL 1224 FWL | SESW | 22 | 9.0 S | 15.0 E | S |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
1224

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

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
1515

**26. PROPOSED DEPTH**
MD: 5971 TVD: 5900

**27. ELEVATION - GROUND LEVEL**
6565

**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 - 5971 | 15.5 | J-55 LT&C | 8.3 | Premium Lite High Strength | 274 | 3.26 | 11.0 |
| | | | | | | | 50/50 Poz | 363 | 1.24 | 14.3 |

### ATTACHMENTS

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

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

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

**SIGNATURE** | **DATE** 09/29/2013 | **EMAIL** mcrozier@newfield.com

**API NUMBER ASSIGNED**
43013524860000

**APPROVAL**
Permit Manager

RECEIVED: October 22, 2013

NEWFIELD PRODUCTION COMPANY
GMBU X-22-9-15
AT SURFACE: NW/NW (LOT #1) SECTION 27, T9S R15E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

| | | |
|---|---|---|
| Uinta | 0' – 3,725' | |
| Green River | 3,725' | |
| Wasatch | 6,005' | |
| **Proposed TD** | 5,971'(MD) | 5,900' (TVD) |

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

Green River Formation (Oil) 3,725' – 6,005'

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: September 29, 2013

## 4. *PROPOSED CASING PROGRAM*

### a. Casing Design: GMBU X-22-9-15

| Size | Interval | | Weight | Grade | Coupling | Design Factors | | |
|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | | | | Burst | Collapse | Tension |
| Surface casing 8-5/8" | 0' | 300' | 24.0 | J-55 | STC | 2,950<br>17.53 | 1,370<br>14.35 | 244,000<br>33.89 |
| Prod casing 5-1/2" | 0' | 5,971' | 15.5 | J-55 | LTC | 4,810<br>2.53 | 4,040<br>2.13 | 217,000<br>2.34 |

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 X-22-9-15

| 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 | 3,971' | Prem Lite II w/ 10% gel + 3% KCl | 274<br>894 | 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: September 29, 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: September 29, 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 first quarter of 2014, and take approximately seven (7) days from spud to rig release.

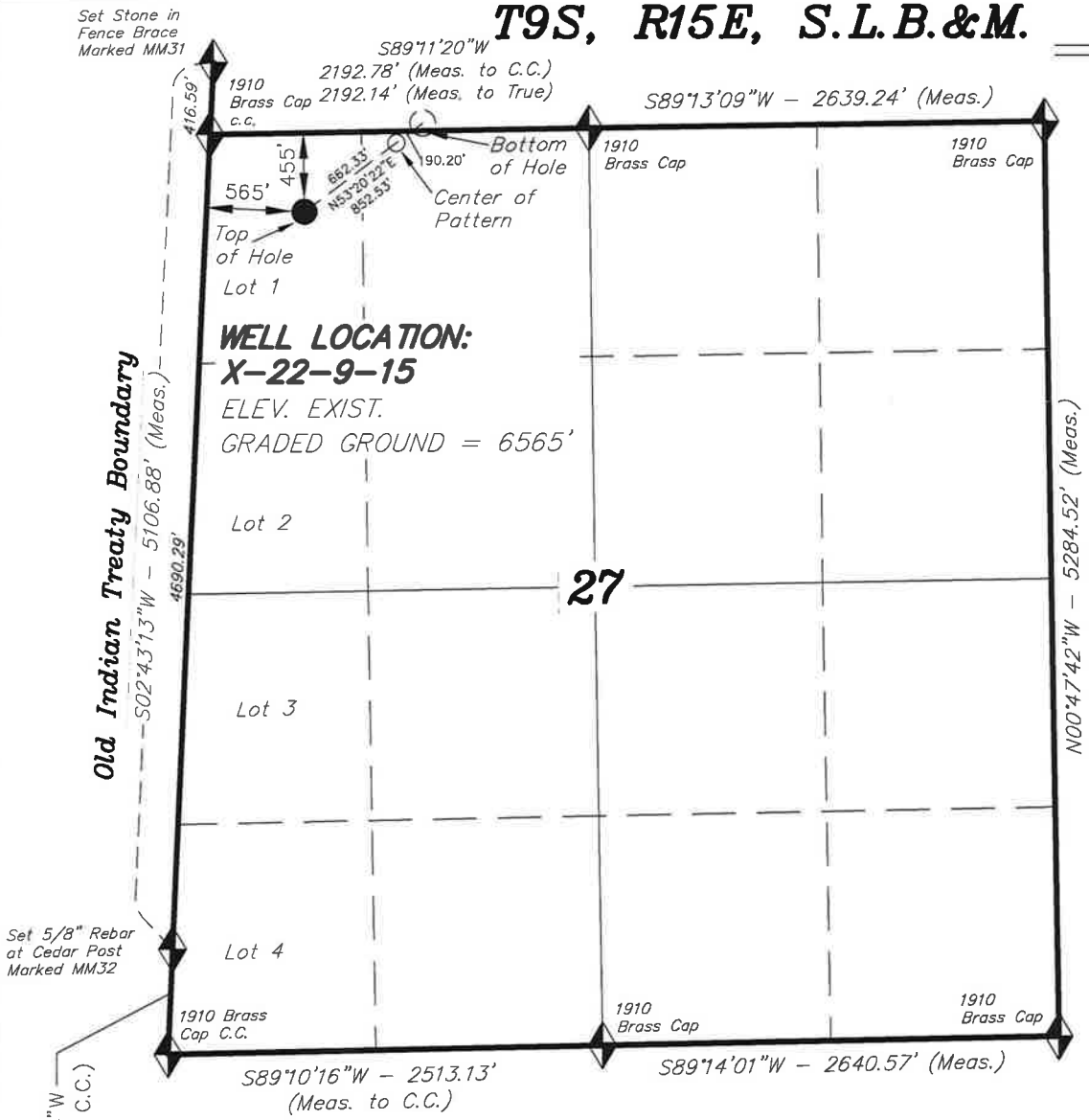
RECEIVED: September 29, 2013

API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, X-22-9-15, LOCATED AS SHOWN IN NWNW (LOT 1) OF SECTION 27, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 67' FNL & 1077' FWL.

N

◆ = 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 05-09-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH 02-16-11

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 (CENTER OF PATTERN) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°00'32.24"<br>LONGITUDE = 110°13'20.03" | LATITUDE = 40°00'28.41"<br>LONGITUDE = 110°13'26.93" |
| **NAD 27 (CENTER OF PATTERN)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°00'32.38"<br>LONGITUDE = 110°13'17.48" | LATITUDE = 40°00'28.54"<br>LONGITUDE = 110°13'24.38" |

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

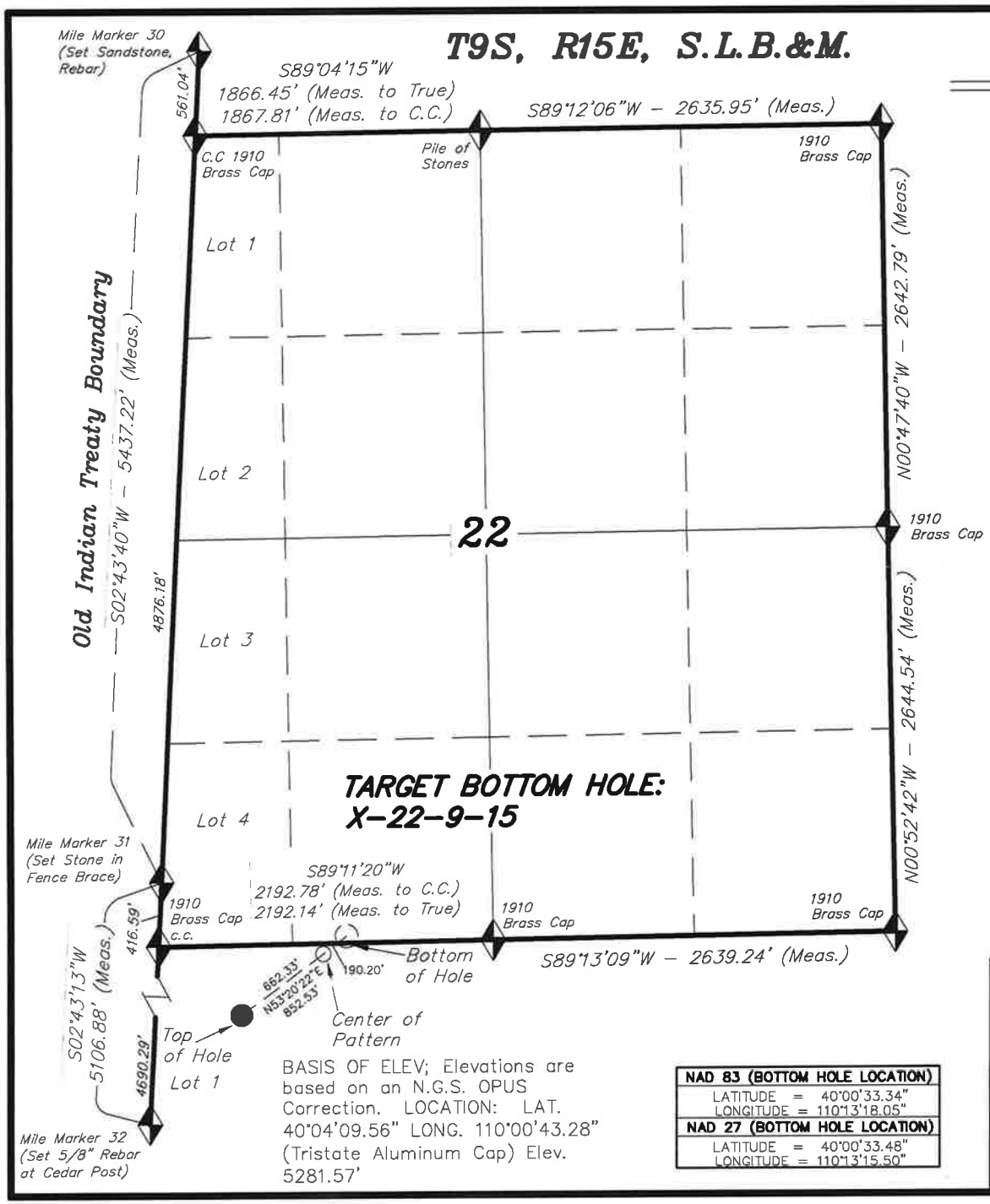
| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, X-22-9-15, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 22, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, 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°00'33.34" |
| LONGITUDE = 110°13'18.05" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°00'33.48" |
| LONGITUDE = 110°13'15.50" |

1000' 500' 0' 1000'

BAR SCALE

N

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 44' FSL & 1224' FWL.

◆ = 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.

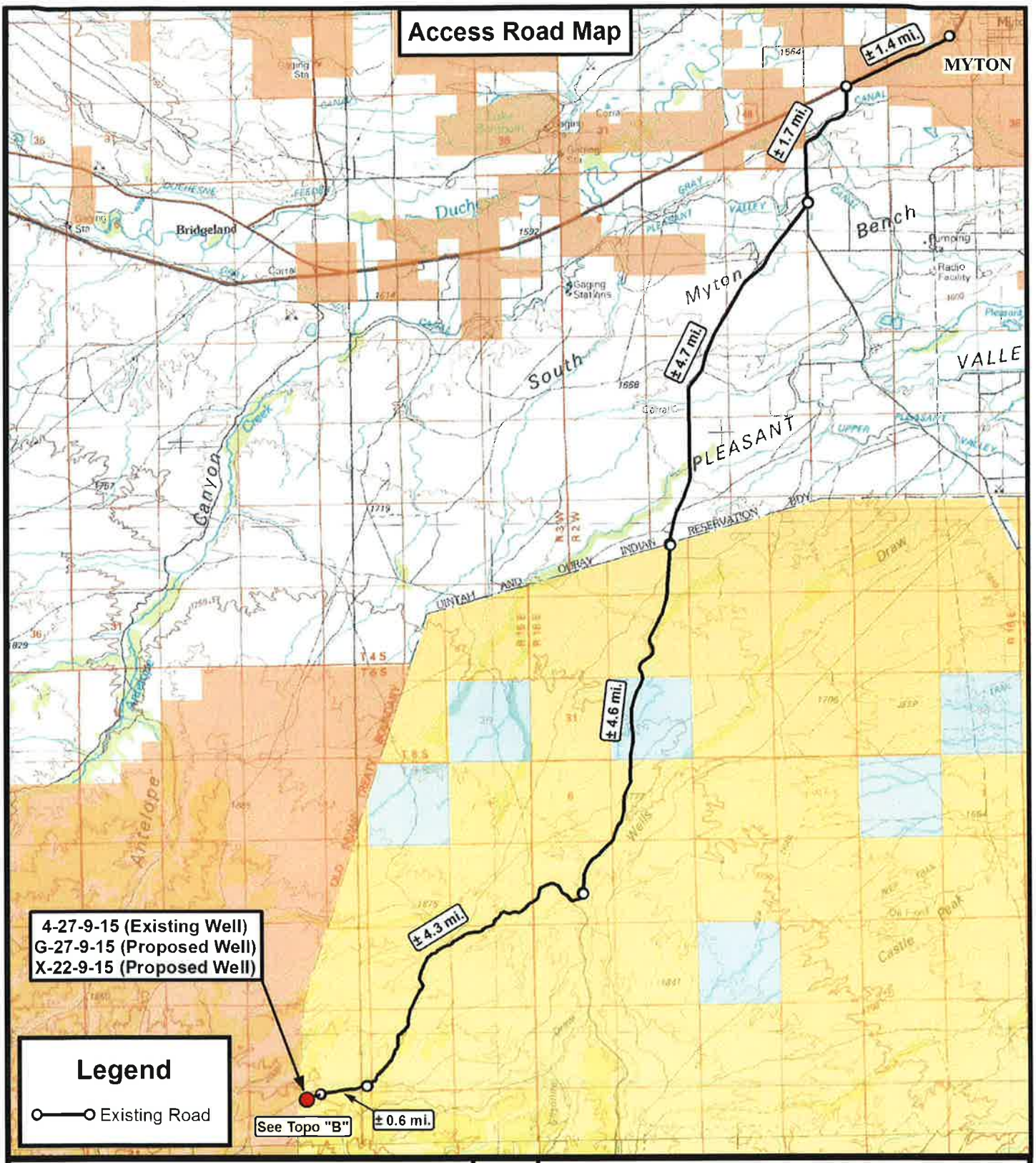
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

REGISTERED LAND SURVEYOR
No. 189377
05-09-13
STACY W. STEWART
STATE OF UTAH

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000



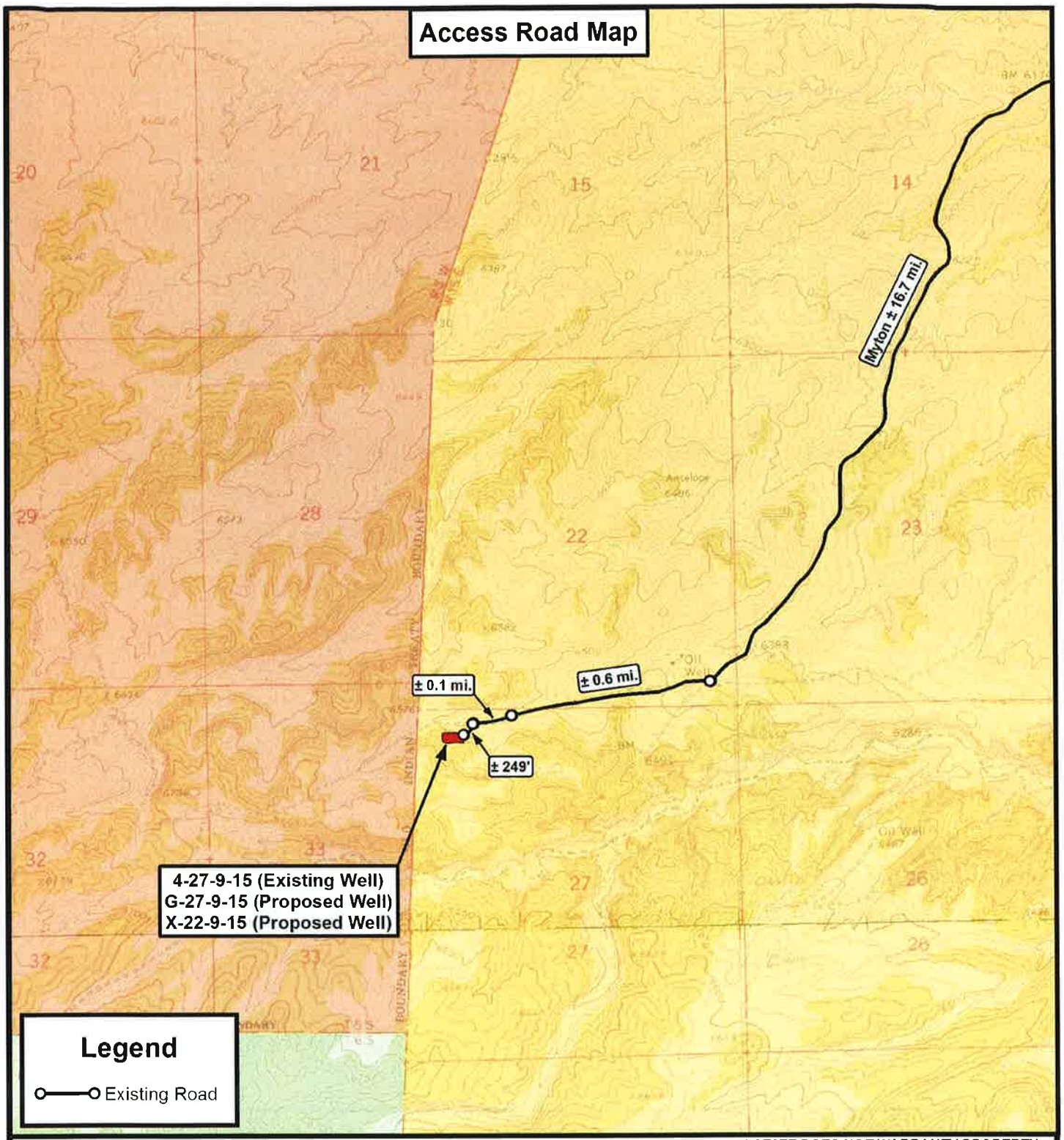

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET A |
| SCALE: 1:100,000 | | | |

API Well Number: 43013524860000




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


| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

N

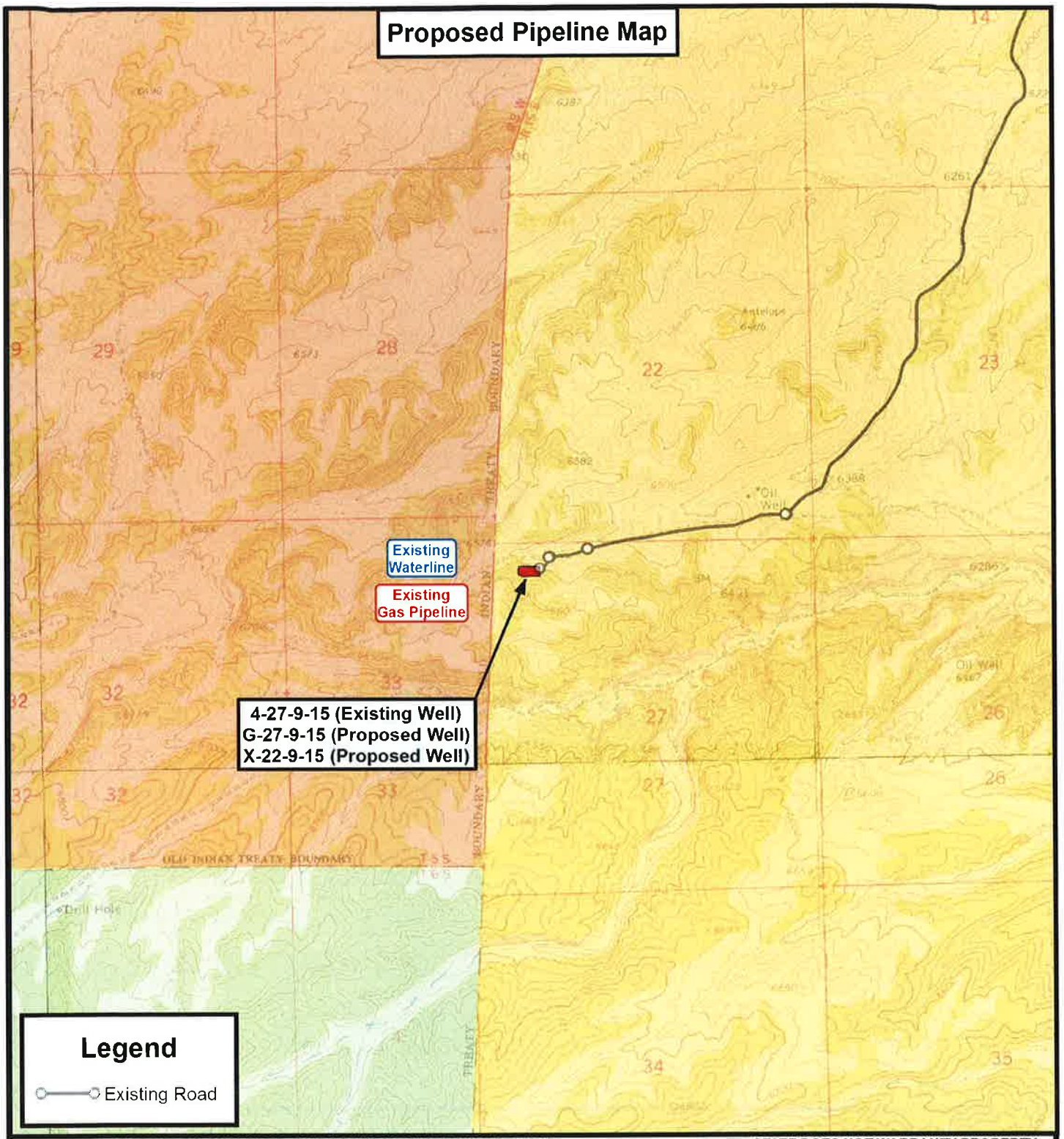
**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013524860000




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

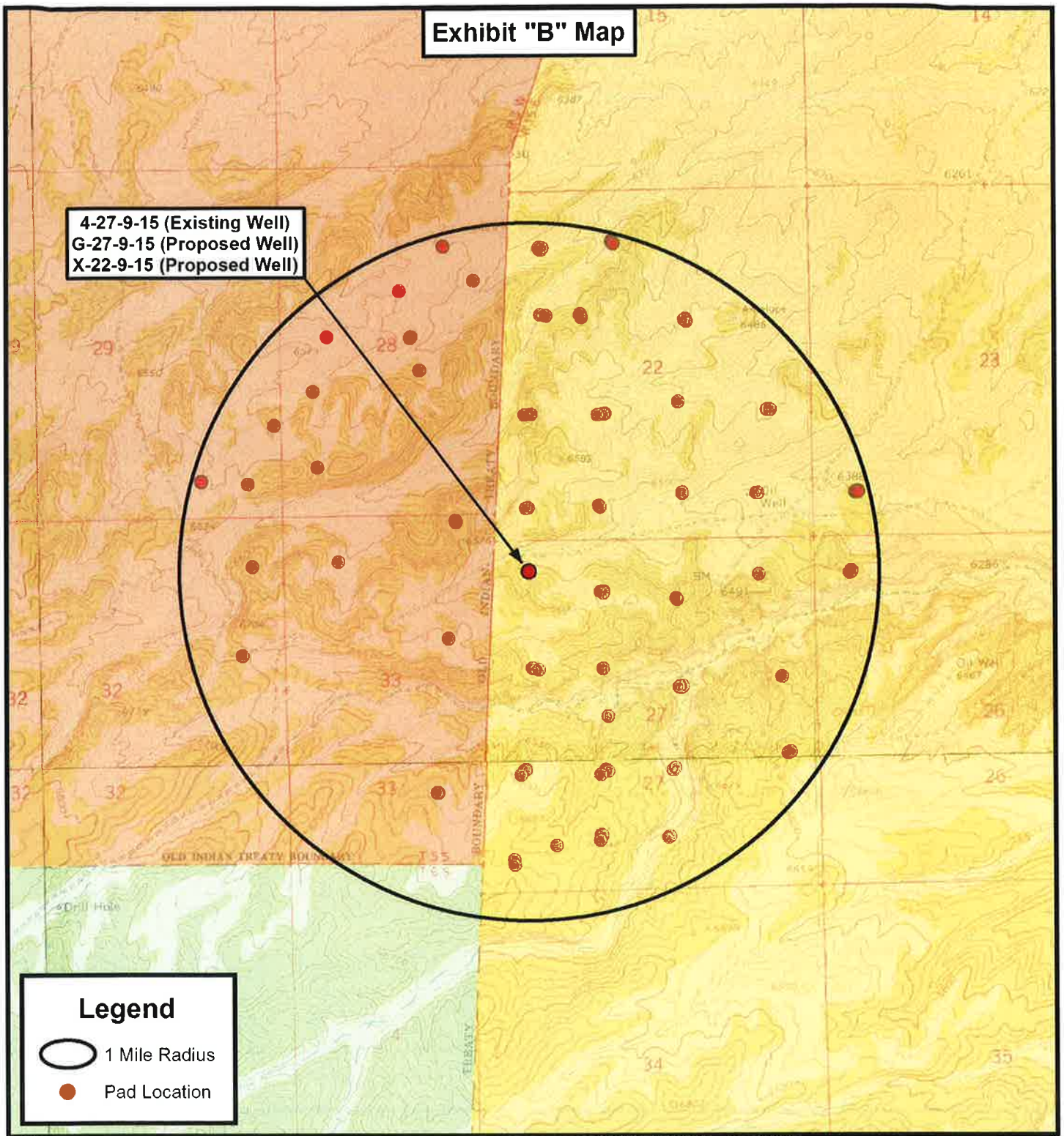

N

**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET C |
| SCALE: 1 " = 2,000 ' | | | |

API Well Number: 43013524860000




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**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET D |
| SCALE: 1 " = 2,000 ' | | | |

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 83) (DMS) | Longitude (NAD 83) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.12" N | 110° 13' 27.32" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.26" N | 110° 13' 27.12" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.41" N | 110° 13' 26.93" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.19" N | 110° 13' 23.83" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.24" N | 110° 13' 20.03" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.08" N | 110° 13' 22.85" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.34" N | 110° 13' 18.05" W |

| Well Number | Feature Type | Latitude (NAD 83) (DD) | Longitude (NAD 83) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007810 | 110.224255 |
| G-27-9-15 | Surface Hole | 40.007851 | 110.224201 |
| X-22-9-15 | Surface Hole | 40.007892 | 110.224146 |
| G-27-9-15 | Center of Pattern | 40.005885 | 110.223285 |
| X-22-9-15 | Center of Pattern | 40.008956 | 110.222230 |
| G-27-9-15 | Bottom of Hole | 40.005301 | 110.223013 |
| X-22-9-15 | Bottom of Hole | 40.009262 | 110.221680 |

| Well Number | Feature Type | Northing (NAD 83) (UTM Meters) | Longitude (NAD 83) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428912.274 | 566210.161 |
| G-27-9-15 | Surface Hole | 4428916.814 | 566214.760 |
| X-22-9-15 | Surface Hole | 4428921.354 | 566219.359 |
| G-27-9-15 | Center of Pattern | 4428699.288 | 566294.797 |
| X-22-9-15 | Center of Pattern | 4429040.916 | 566381.872 |
| G-27-9-15 | Bottom of Hole | 4428634.642 | 566318.583 |
| X-22-9-15 | Bottom of Hole | 4429075.251 | 566428.541 |

| Well Number | Feature Type | Latitude (NAD 27) (DMS) | Longitude (NAD 27) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.25" N | 110° 13' 24.77" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.40" N | 110° 13' 24.57" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.54" N | 110° 13' 24.38" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.32" N | 110° 13' 21.28" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.38" N | 110° 13' 17.48" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.22" N | 110° 13' 20.30" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.48" N | 110° 13' 15.50" W |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 1

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 27) (DD) | Longitude (NAD 27) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007848 | 110.223547 |
| G-27-9-15 | Surface Hole | 40.007889 | 110.223492 |
| X-22-9-15 | Surface Hole | 40.007929 | 110.223438 |
| G-27-9-15 | Center of Pattern | 40.005923 | 110.222577 |
| X-22-9-15 | Center of Pattern | 40.008993 | 110.221522 |
| G-27-9-15 | Bottom of Hole | 40.005338 | 110.222305 |
| X-22-9-15 | Bottom of Hole | 40.009299 | 110.220972 |

| Well Number | Feature Type | Northing (NAD 27) (UTM Meters) | Longitude (NAD 27) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428706.922 | 566272.341 |
| G-27-9-15 | Surface Hole | 4428711.462 | 566276.939 |
| X-22-9-15 | Surface Hole | 4428716.001 | 566281.538 |
| G-27-9-15 | Center of Pattern | 4428493.935 | 566356.978 |
| X-22-9-15 | Center of Pattern | 4428835.564 | 566444.052 |
| G-27-9-15 | Bottom of Hole | 4428429.289 | 566380.765 |
| X-22-9-15 | Bottom of Hole | 4428869.899 | 566490.722 |

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

**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 2

API Well Number: 43013524860000

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 27**
**X-22-9-15**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report

**28 April, 2013**

RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

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

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

**Site** SECTION 27

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,174,111.94 ft | **Latitude:** | 40° 0' 27.380 N |
| **From:** | Lat/Long | **Easting:** | 2,002,592.07 ft | **Longitude:** | 110° 12' 25.040 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | 0" | **Grid Convergence:** | 0.83 ° |

**Well** X-22-9-15, SHL LAT: 40 00 28.41 LONG: -110 13 26.93

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 103.7 ft | **Northing:** | 7,174,146.98 ft | **Latitude:** | 40° 0' 28.410 N |
| | **+E/-W** | -4,815.5 ft | **Easting:** | 1,997,775.61 ft | **Longitude:** | 110° 13' 26.930 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 6,575.0 ft | **Ground Level:** | 6,565.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 4/28/2013 | 11.13 | 65.69 | 52,035 |

**Design** Design #1

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 53.34 |

**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 | |
| 1,248.3 | 9.72 | 53.34 | 1,245.2 | 32.8 | 44.0 | 1.50 | 1.50 | 8.23 | 53.34 | |
| 4,844.8 | 9.72 | 53.34 | 4,790.0 | 395.5 | 531.3 | 0.00 | 0.00 | 0.00 | 0.00 | X-22-9-15 TGT |
| 5,971.0 | 9.72 | 53.34 | 5,900.0 | 509.0 | 683.9 | 0.00 | 0.00 | 0.00 | 0.00 | |



RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 1.50 | 53.34 | 700.0 | 0.8 | 1.0 | 1.3 | 1.50 | 1.50 | 0.00 |
| 800.0 | 3.00 | 53.34 | 799.9 | 3.1 | 4.2 | 5.2 | 1.50 | 1.50 | 0.00 |
| 900.0 | 4.50 | 53.34 | 899.7 | 7.0 | 9.4 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,000.0 | 6.00 | 53.34 | 999.3 | 12.5 | 16.8 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,100.0 | 7.50 | 53.34 | 1,098.6 | 19.5 | 26.2 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 9.00 | 53.34 | 1,197.5 | 28.1 | 37.7 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,248.3 | 9.72 | 53.34 | 1,245.2 | 32.8 | 44.0 | 54.9 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 9.72 | 53.34 | 1,296.1 | 38.0 | 51.0 | 63.6 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 9.72 | 53.34 | 1,394.7 | 48.1 | 64.6 | 80.5 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 9.72 | 53.34 | 1,493.3 | 58.2 | 78.1 | 97.4 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 9.72 | 53.34 | 1,591.8 | 68.2 | 91.7 | 114.3 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 9.72 | 53.34 | 1,690.4 | 78.3 | 105.2 | 131.2 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 9.72 | 53.34 | 1,789.0 | 88.4 | 118.8 | 148.1 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 9.72 | 53.34 | 1,887.5 | 98.5 | 132.3 | 165.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 9.72 | 53.34 | 1,986.1 | 108.6 | 145.9 | 181.8 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 9.72 | 53.34 | 2,084.7 | 118.7 | 159.4 | 198.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 9.72 | 53.34 | 2,183.2 | 128.7 | 173.0 | 215.6 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 9.72 | 53.34 | 2,281.8 | 138.8 | 186.5 | 232.5 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 9.72 | 53.34 | 2,380.3 | 148.9 | 200.1 | 249.4 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 9.72 | 53.34 | 2,478.9 | 159.0 | 213.6 | 266.3 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 9.72 | 53.34 | 2,577.5 | 169.1 | 227.2 | 283.2 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 9.72 | 53.34 | 2,676.0 | 179.2 | 240.7 | 300.1 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 9.72 | 53.34 | 2,774.6 | 189.3 | 254.3 | 317.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 9.72 | 53.34 | 2,873.2 | 199.3 | 267.8 | 333.9 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 9.72 | 53.34 | 2,971.7 | 209.4 | 281.4 | 350.7 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 9.72 | 53.34 | 3,070.3 | 219.5 | 294.9 | 367.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 9.72 | 53.34 | 3,168.9 | 229.6 | 308.5 | 384.5 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 9.72 | 53.34 | 3,267.4 | 239.7 | 322.0 | 401.4 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 9.72 | 53.34 | 3,366.0 | 249.8 | 335.6 | 418.3 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 9.72 | 53.34 | 3,464.5 | 259.8 | 349.1 | 435.2 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 9.72 | 53.34 | 3,563.1 | 269.9 | 362.7 | 452.1 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 9.72 | 53.34 | 3,661.7 | 280.0 | 376.2 | 469.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 9.72 | 53.34 | 3,760.2 | 290.1 | 389.8 | 485.9 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 9.72 | 53.34 | 3,858.8 | 300.2 | 403.3 | 502.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 9.72 | 53.34 | 3,957.4 | 310.3 | 416.9 | 519.6 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 9.72 | 53.34 | 4,055.9 | 320.4 | 430.4 | 536.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 9.72 | 53.34 | 4,154.5 | 330.4 | 444.0 | 553.4 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 9.72 | 53.34 | 4,253.0 | 340.5 | 457.5 | 570.3 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 9.72 | 53.34 | 4,351.6 | 350.6 | 471.0 | 587.2 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 9.72 | 53.34 | 4,450.2 | 360.7 | 484.6 | 604.1 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 9.72 | 53.34 | 4,548.7 | 370.8 | 498.1 | 621.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 9.72 | 53.34 | 4,647.3 | 380.9 | 511.7 | 637.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 9.72 | 53.34 | 4,745.9 | 390.9 | 525.2 | 654.8 | 0.00 | 0.00 | 0.00 |
| 4,844.8 | 9.72 | 53.34 | 4,790.0 | 395.5 | 531.3 | 662.3 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 9.72 | 53.34 | 4,844.4 | 401.0 | 538.8 | 671.7 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 9.72 | 53.34 | 4,943.0 | 411.1 | 552.3 | 688.5 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 9.72 | 53.34 | 5,041.6 | 421.2 | 565.9 | 705.4 | 0.00 | 0.00 | 0.00 |



RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 9.72 | 53.34 | 5,140.1 | 431.3 | 579.4 | 722.3 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 9.72 | 53.34 | 5,238.7 | 441.4 | 593.0 | 739.2 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 9.72 | 53.34 | 5,337.2 | 451.5 | 606.5 | 756.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 9.72 | 53.34 | 5,435.8 | 461.5 | 620.1 | 773.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 9.72 | 53.34 | 5,534.4 | 471.6 | 633.6 | 789.9 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 9.72 | 53.34 | 5,632.9 | 481.7 | 647.2 | 806.8 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 9.72 | 53.34 | 5,731.5 | 491.8 | 660.7 | 823.7 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 9.72 | 53.34 | 5,830.1 | 501.9 | 674.3 | 840.6 | 0.00 | 0.00 | 0.00 |
| 5,971.0 | 9.72 | 53.34 | 5,900.0 | 509.0 | 683.9 | 852.5 | 0.00 | 0.00 | 0.00 |



RECEIVED: September 29, 2013

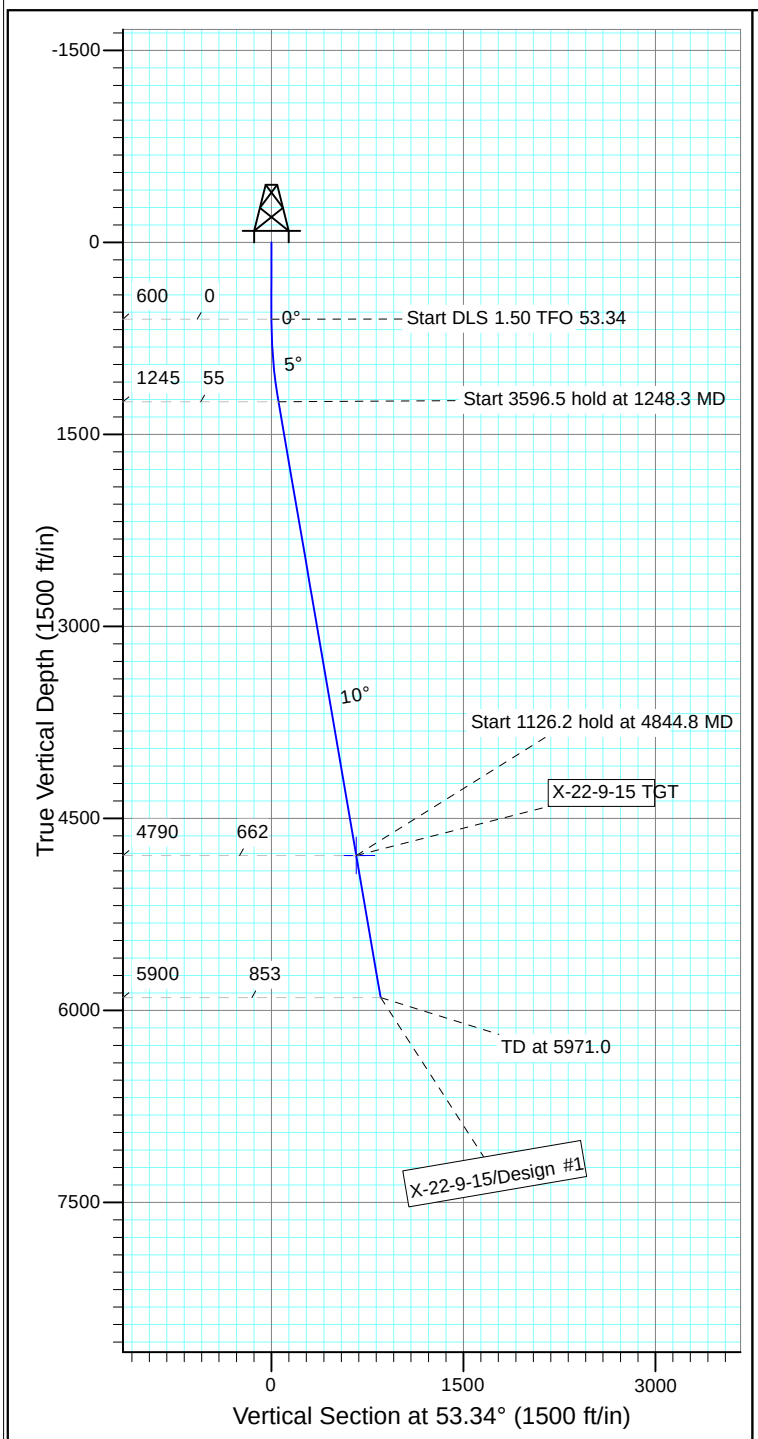
API Well Number: 43013524860000

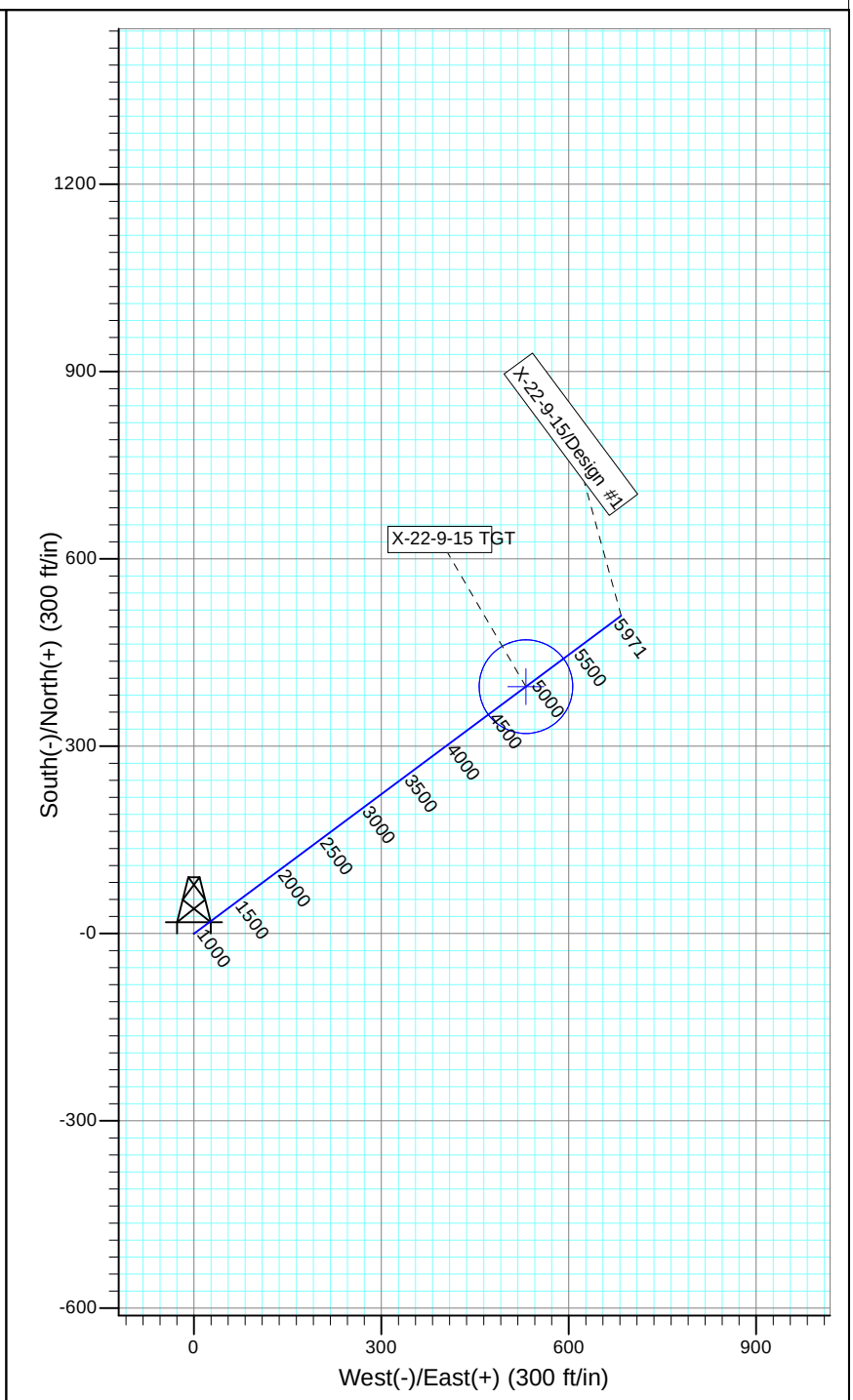
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 27
Well: X-22-9-15
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 52034.7snT
Dip Angle: 65.69°
Date: 4/28/2013
Model: IGRF2010




WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| X-22-9-15 TGT | 4790.0 | 395.5 | 531.3 | 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 | 1248.3 | 9.72 | 53.34 | 1245.2 | 32.8 | 44.0 | 1.50 | 53.34 | 54.9 | |
| 4 | 4844.8 | 9.72 | 53.34 | 4790.0 | 395.5 | 531.3 | 0.00 | 0.00 | 662.3 | X-22-9-15 TGT |
| 5 | 5971.0 | 9.72 | 53.34 | 5900.0 | 509.0 | 683.9 | 0.00 | 0.00 | 852.5 | |

PAYZONE

**NEWFIELD PRODUCTION COMPANY**
**GMBU X-22-9-15**
**AT SURFACE: NW/NW (LOT #1) SECTION 27, T9S R15E**
**DUCHESNE COUNTY, UTAH**

# ONSHORE ORDER NO. 1

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

### *1. EXISTING ROADS*

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU X-22-9-15 located in the NW 1/4 NW 1/4 Section 27, T9S, R15E, 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 southwesterly direction – 15.9 miles ± to it's junction with the beginning of the access road to the existing 4-27-9-15 well location.

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

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

### *2. PLANNED ACCESS ROAD*

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 4-27-9-15 well pad. See attached **Topographic Map "B"**.

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

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

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

### *3. LOCATION OF EXISTING WELLS*

Refer to Exhibit "B".

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

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

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

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

RECEIVED: September 29, 2013

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

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

There will be no water well drilled at this site.

## *6. SOURCE OF CONSTRUCTION MATERIALS*

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

A mineral material application is not required for this location.

## *7. METHODS FOR HANDLING WASTE DISPOSAL*

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

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

A portable toilet will be provided for human waste.

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

## *8. ANCILLARY FACILITIES*

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

RECEIVED: September 29, 2013

***9.*** ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

**Fencing Requirements**

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

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

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

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

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

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

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

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-197 7/26/13, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade E. Miller, 4/7/04. See attached report cover pages, Exhibit “D”.

**Water Disposal**
After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract

RECEIVED: September 29, 2013

trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

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

**Hazardous Material Declaration**
Newfield Production Company guarantees that during the drilling and completion of the GMBU X-22-9-15, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU X-22-9-15, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

13. **LESSEE'S OR OPERATOR'S 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 #X-22-9-15, Section 27, Township 9S, Range 15E: Lease UTU-66185 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

Mandie Crozier

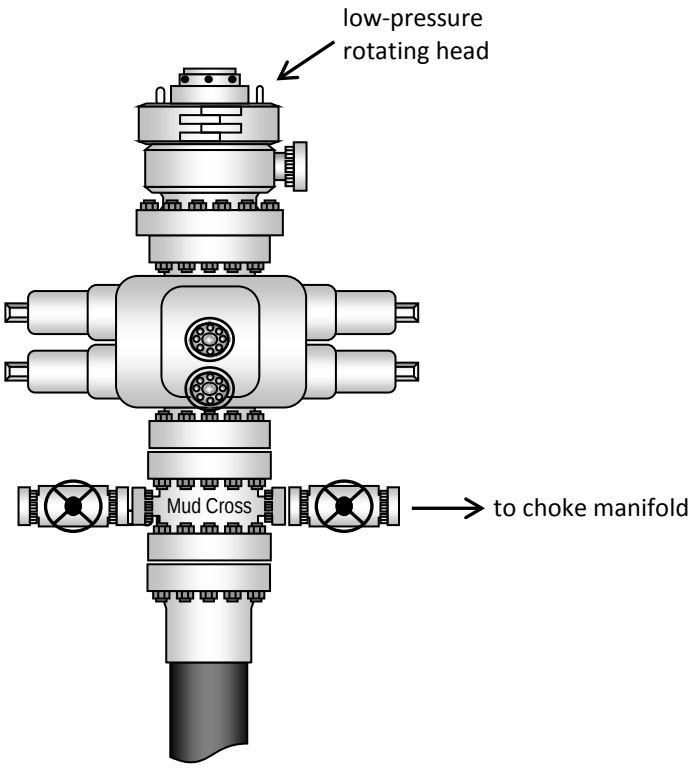
Digitally signed by Mandie Crozier
DN: cn=Mandie Crozier, o=Newfield Production, ou=Regulatory Analyst, email=mcrozier@newfield.com, c=US
Date: 2013.09.29 17:58:53 -06'00'

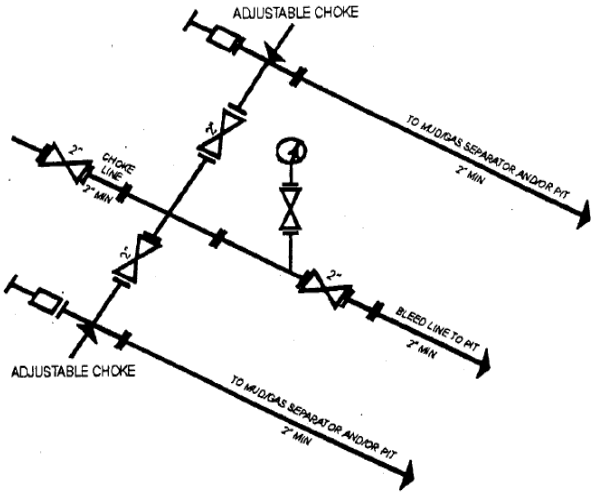
9/27/13
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company

RECEIVED: September 29, 2013

**Typical 2M BOP stack configuration**




2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

RECEIVED: September 29, 2013

API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.

**TOP HOLE FOOTAGES**

G-27-9-15
470' FNL & 551' FWL

X-22-9-15
455' FNL & 565' FWL

**CENTER OF PATTERN FOOTAGES**

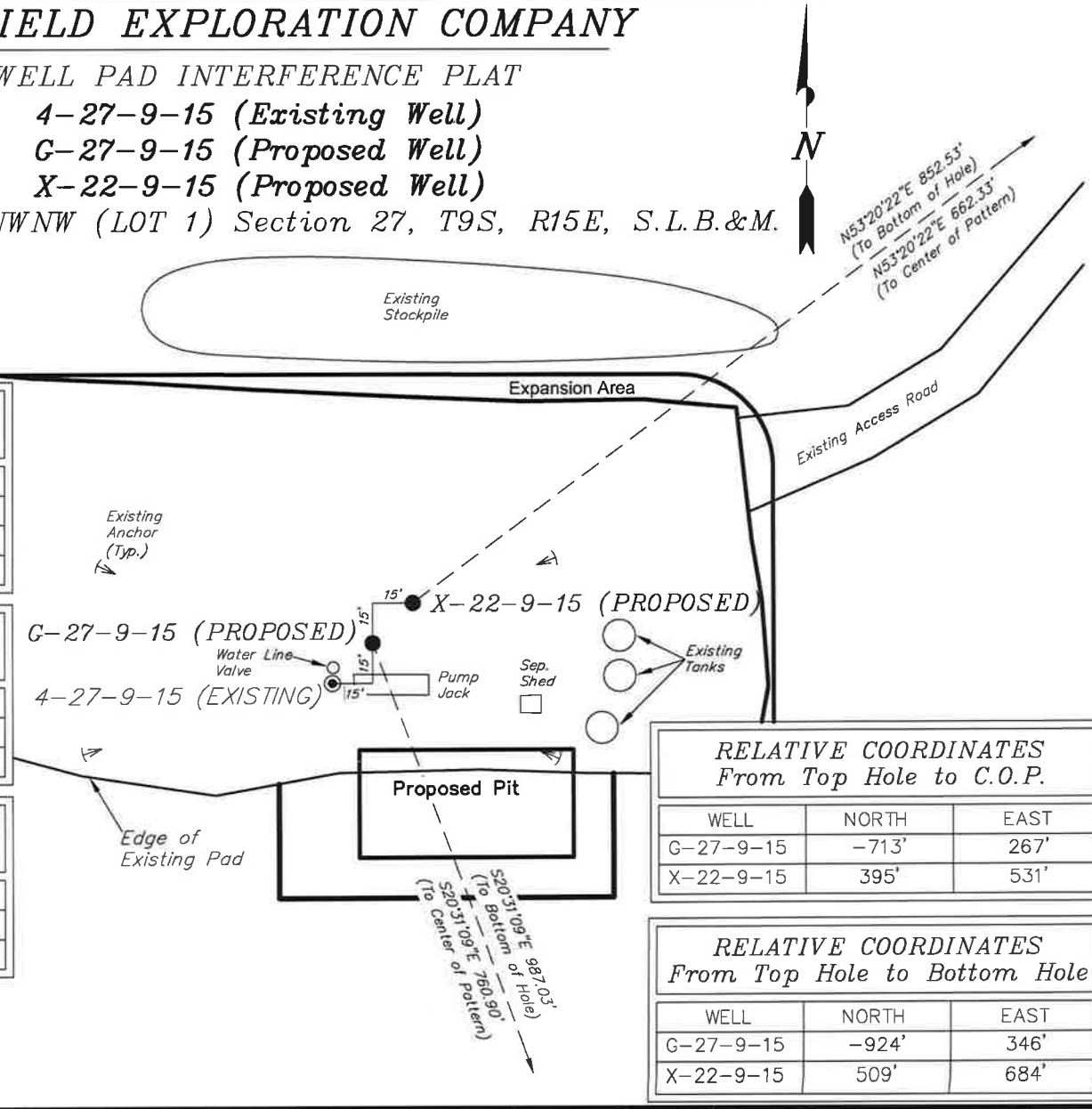
G-27-9-15
1186' FNL & 851' FWL

X-22-9-15
67' FNL & 1077' FWL

**BOTTOM HOLE FOOTAGES**

G-27-9-15
1399' FNL & 940' FWL

X-22-9-15
44' FSL & 1224' FWL




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

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| 4-27-9-15 | 40° 00' 28.12" | 110° 13' 27.32" |
| G-27-9-15 | 40° 00' 28.26" | 110° 13' 27.12" |
| X-22-9-15 | 40° 00' 28.41" | 110° 13' 26.93" |

### LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| G-27-9-15 | 40° 00' 21.19" | 110° 13' 23.83" |
| X-22-9-15 | 40° 00' 32.24" | 110° 13' 20.03" |

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

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| G-27-9-15 | 40° 00' 19.08" | 110° 13' 22.85" |
| X-22-9-15 | 40° 00' 33.34" | 110° 13' 18.05" |

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

| WELL | NORTH | EAST |
|---|---|---|
| G-27-9-15 | -713' | 267' |
| X-22-9-15 | 395' | 531' |

### RELATIVE COORDINATES
From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|---|---|---|
| G-27-9-15 | -924' | 346' |
| X-22-9-15 | 509' | 684' |

| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: L.K. | DATE DRAWN: 05-09-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

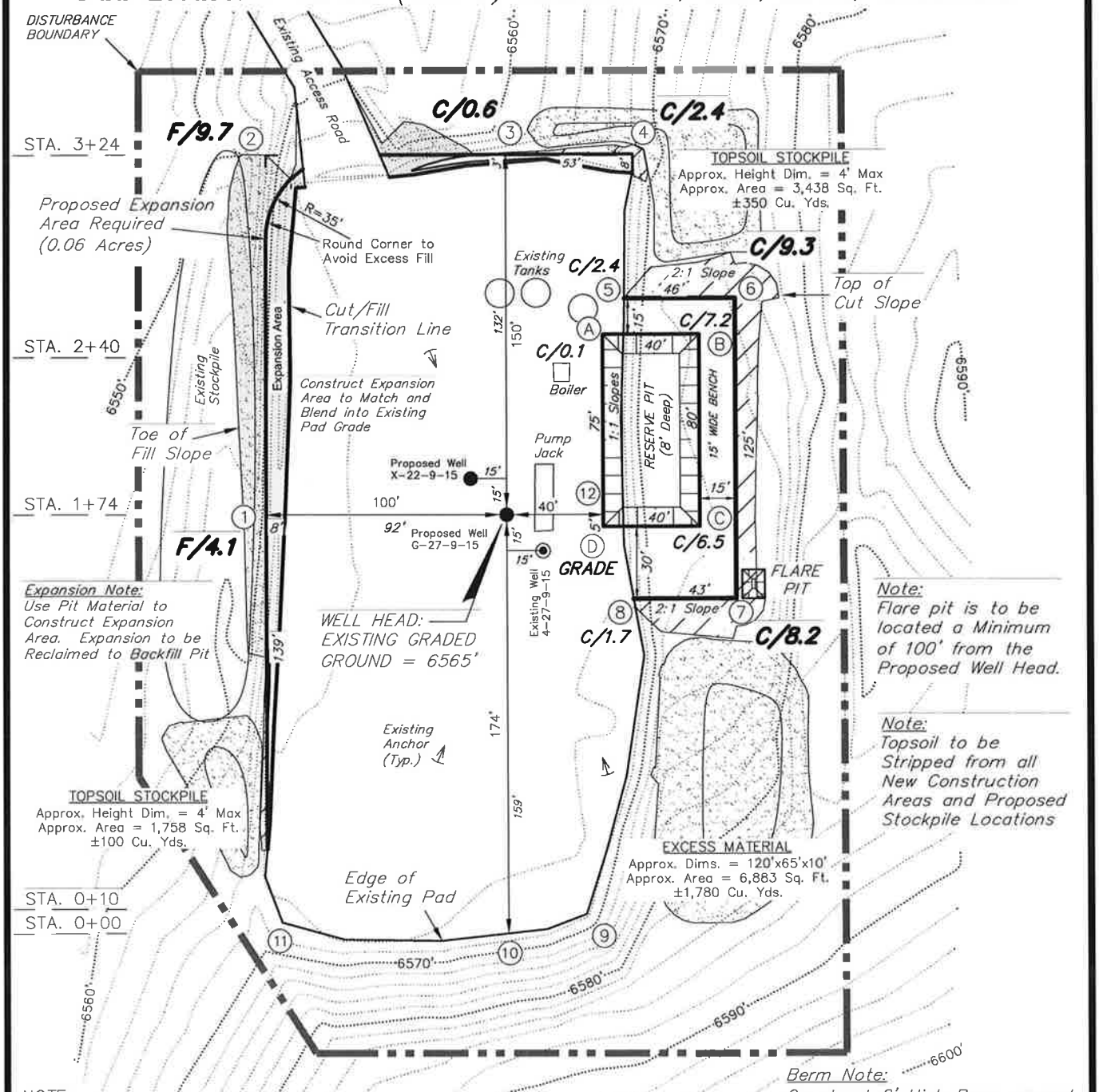
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.




NOTE:
The topsoil & excess material areas are calculated as being mounds containing 2,230 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

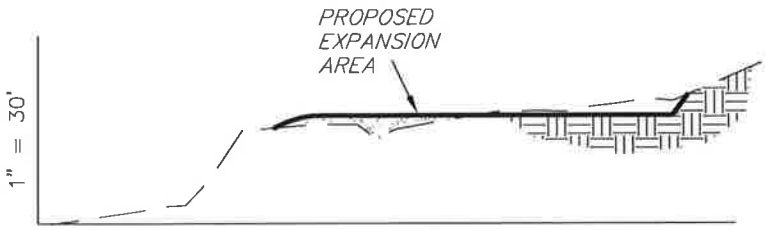
| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | Q.M. | DATE SURVEYED: | 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | 1" = 60' | REVISED: | | | |

# NEWFIELD EXPLORATION COMPANY

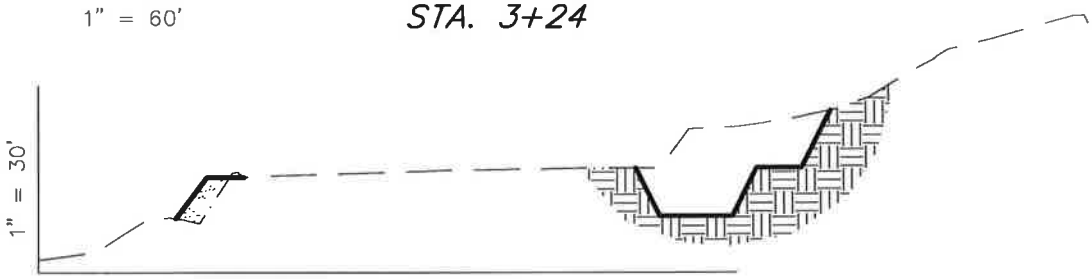
## CROSS SECTIONS

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

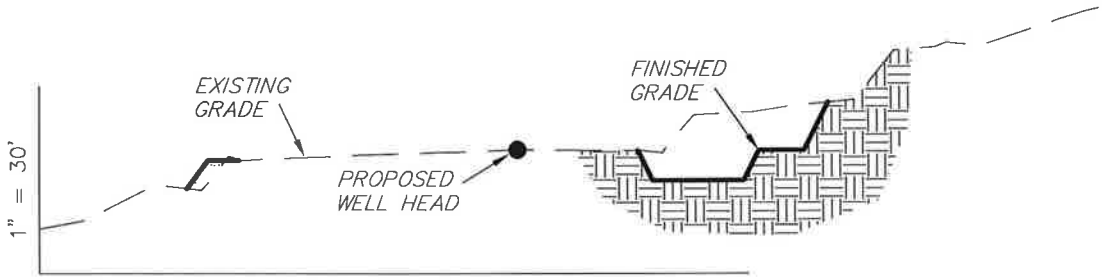
*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*



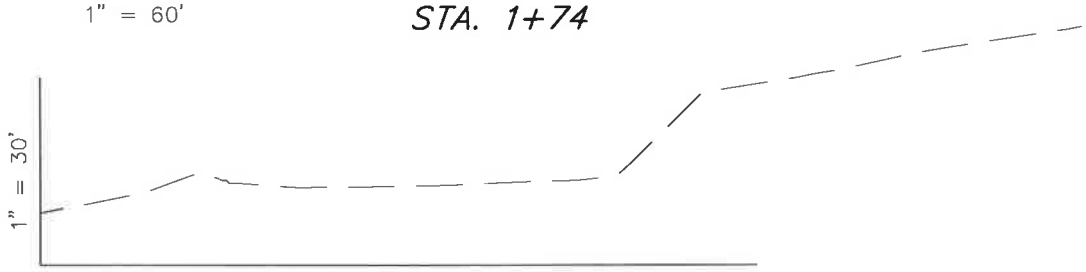

STA. 3+24




STA. 2+40




STA. 1+74




STA. 0+10

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

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|---|---|---|---|---|
| PAD | 1,450 | 520 | Topsoil is not included in Pad Cut | 930 |
| PIT | 690 | 0 | | 690 |
| TOTALS | 2,140 | 520 | 410 | 1,620 |

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

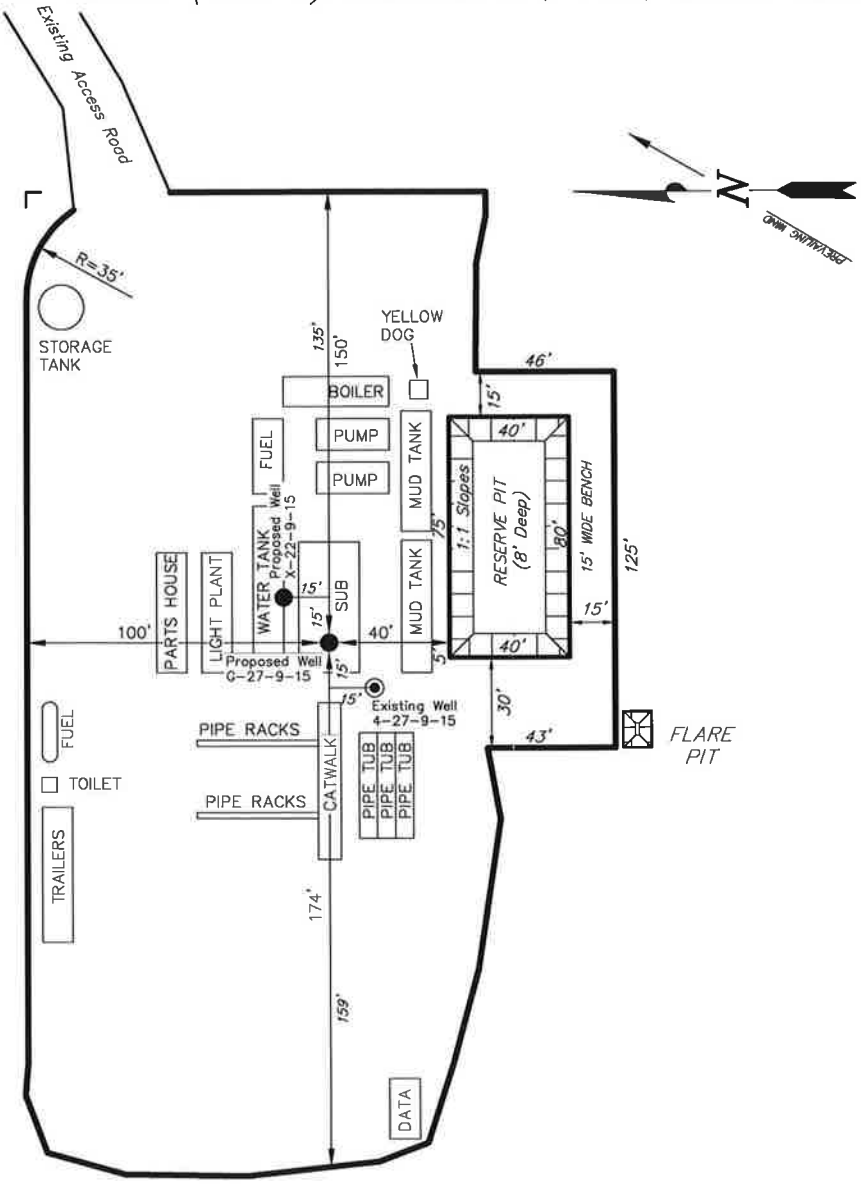
| | | | | |
|---|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. | (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 | |
| SCALE: 1" = 60' | REVISED: | | | |

# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*




| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

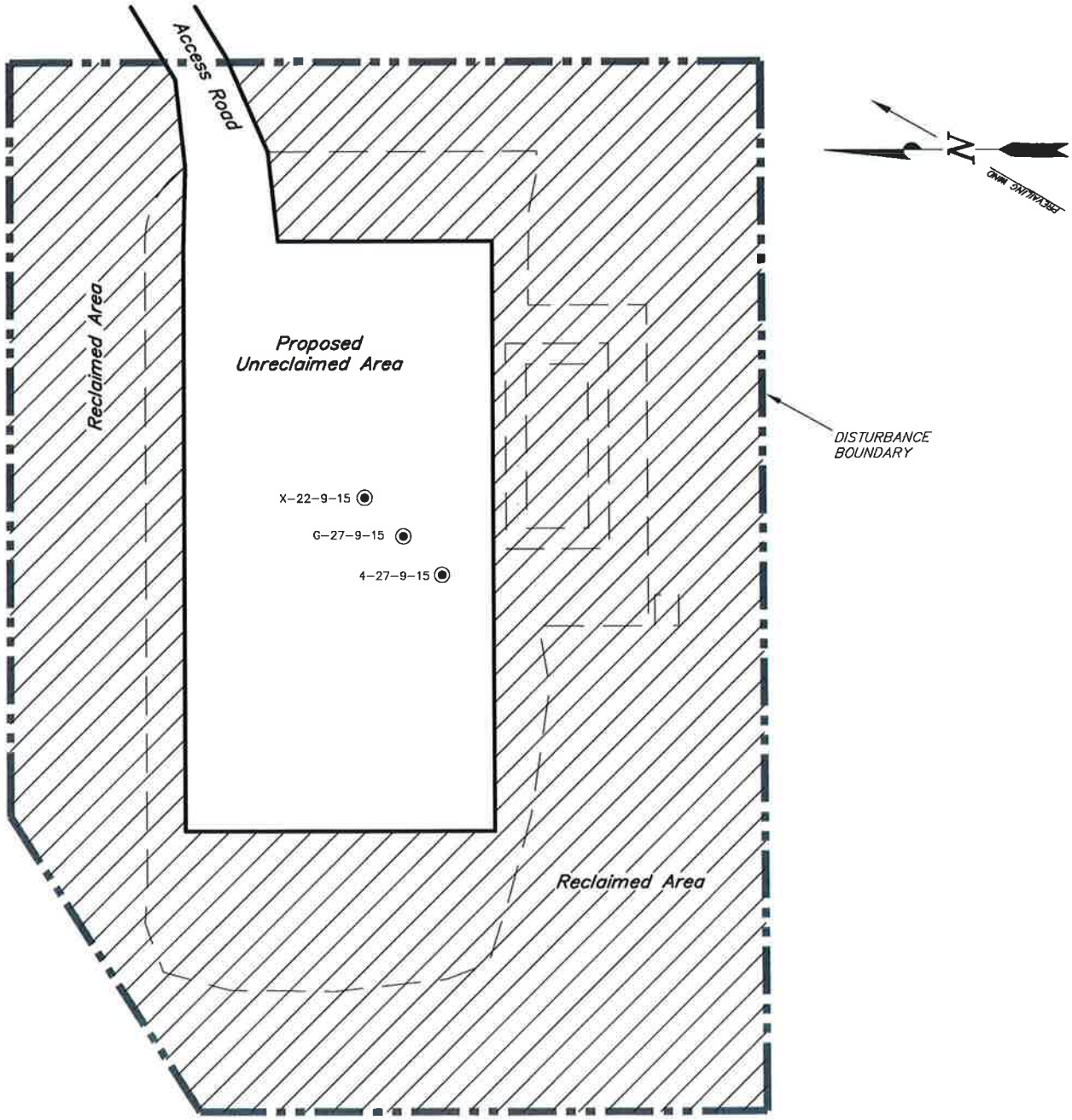
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*




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

**DISTURBED AREA:**

TOTAL DISTURBED AREA = ±2.66 ACRES
TOTAL RECLAIMED AREA = ±1.98 ACRES
UNRECLAIMED AREA = ±0.68 ACRES

| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

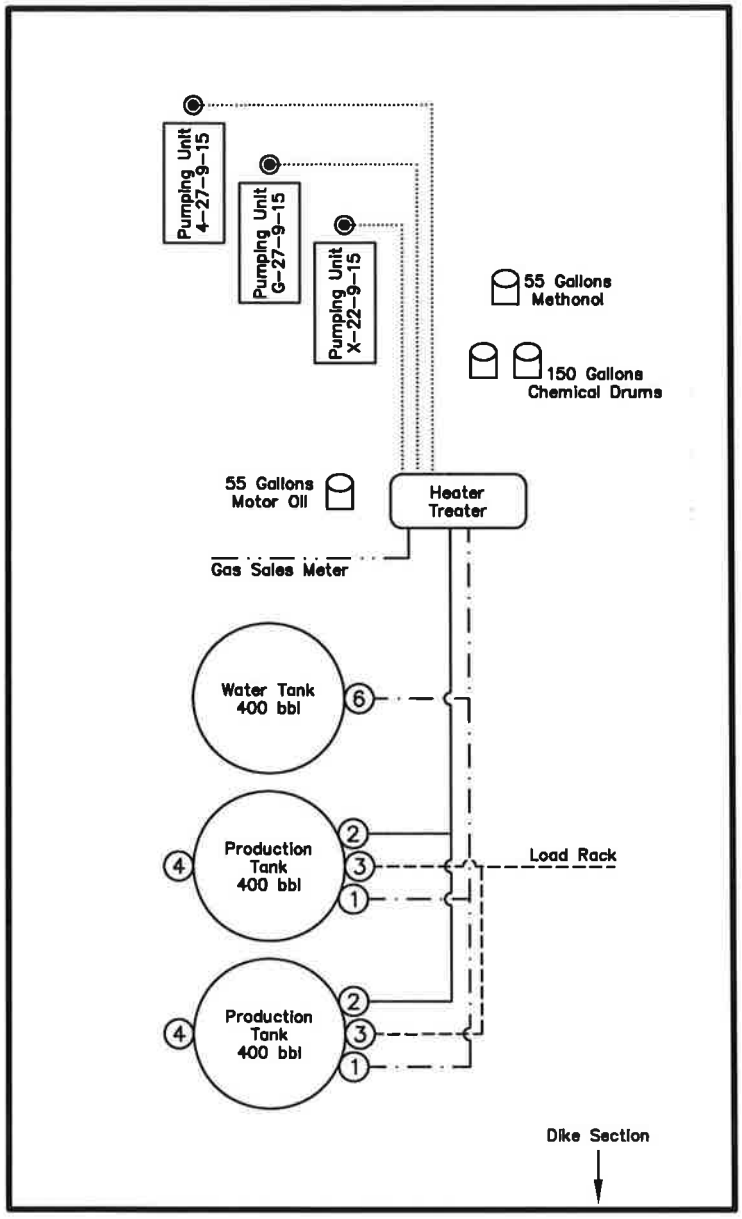
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## PROPOSED SITE FACILITY DIAGRAM

**4-27-9-15 (Existing Well) UTU-66185**
**G-27-9-15 (Proposed Well) UTU-66185**
**X-22-9-15 (Proposed Well) UTU-66185**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*
*Duchesne County, Utah*



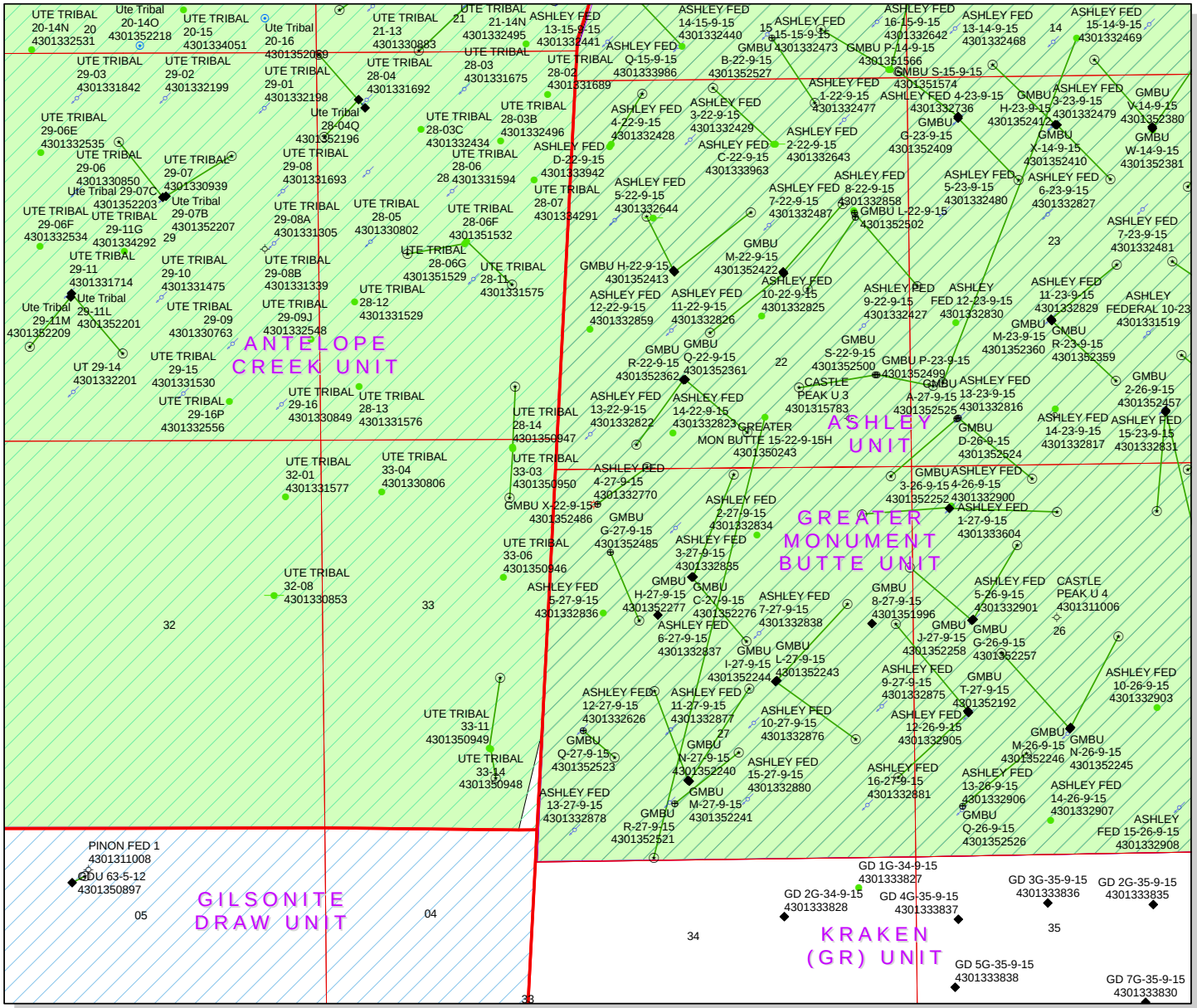

**Legend**

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

NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | Q.M. | DATE SURVEYED: | 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | NONE | REVISED: | | | |

API Well Number: 43013524860000




**API Number: 4301352486**

**Well Name: GMBU X-22-9-15**

Township: T09.0S Range: R15.0E Section: 27 Meridian: S

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 10/4/2013
Map Produced by Diana Mason

**Wells Query**

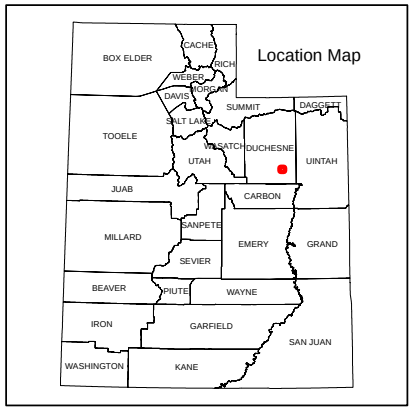
**Status**

- 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

**Units**

**STATUS**

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




1,700 850 0 1,700 Feet

1:16,807

RECEIVED: October 04, 2013

API Well Number: 43013524860000

NEWFIELD

*VIA ELECTRONIC DELIVERY*

October 7, 2013

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

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

RE: Directional Drilling
**GMBU X-22-9-15**
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R15E Section 27: Lot 1 (NWNW) (UTU-66185)
455' FNL 565 FWL

At Target: T9S-R15E Section 22: SESW (UTU-66185)
44' FSL 1224' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 10/1/2013, 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: 43013524860000

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.
UTU66185

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 X-22-9-15

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

2. Name of Operator
NEWFIELD PRODUCTION COMPANY
Contact: MANDIE CROZIER
Email: 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 NWNW Lot 1 455FNL 565FWL

At proposed prod. zone SESW 44FSL 1224FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 27 T9S R15E Mer SLB

14. Distance in miles and direction from nearest town or post office*
17.4 MILES SOUTHWEST 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)
1224'

16. No. of Acres in Lease
2286.40

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.
1515'

19. Proposed Depth
5971 MD
5900 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
6565 GL

22. Approximate date work will start
01/31/2014

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
10/01/2013

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 #221859 verified by the BLM Well Information System**
**For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

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

**Additional Operator Remarks:**

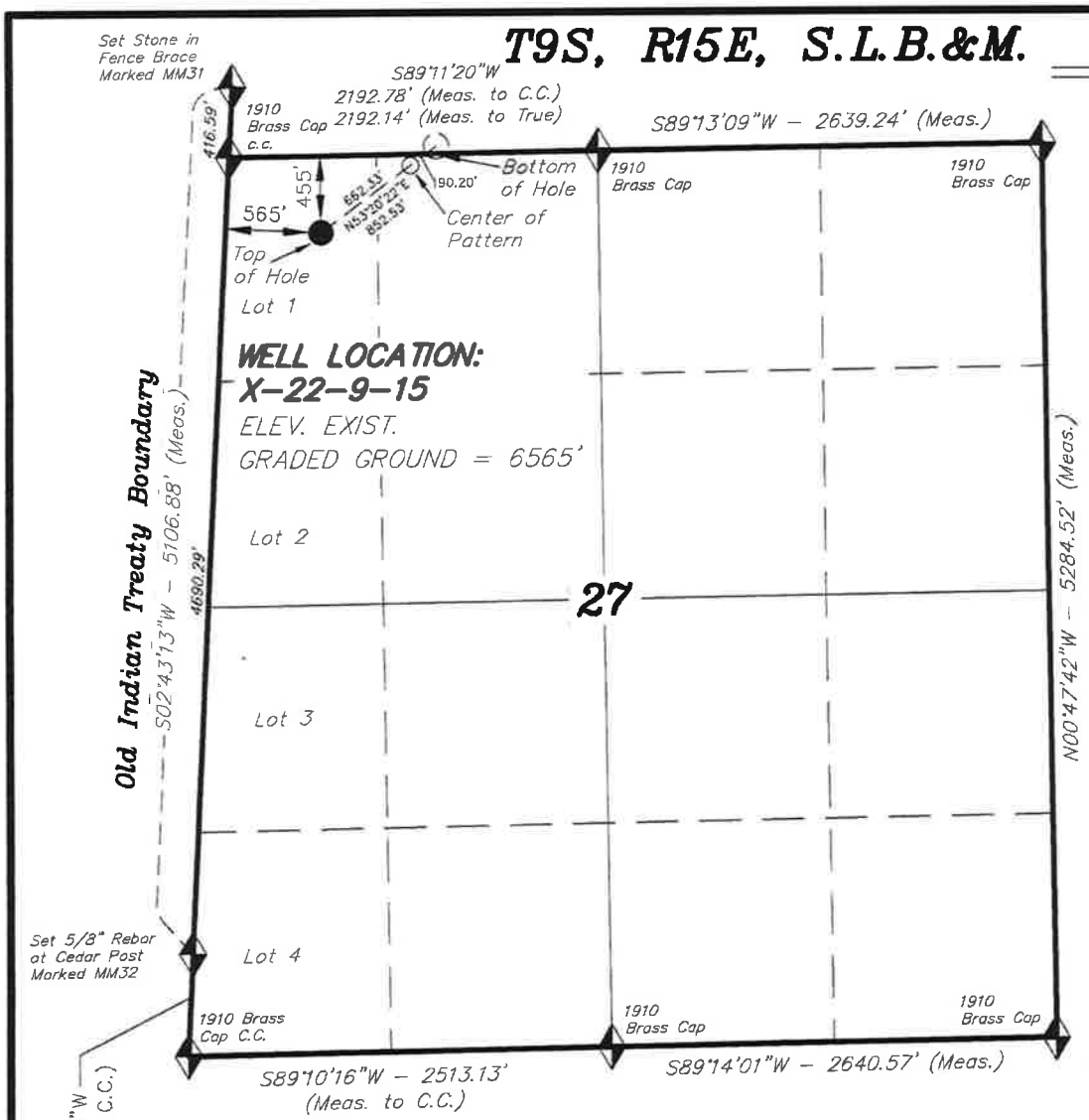
SURFACE LEASE: UTU-66185
BOTTOM HOLE LEASE: UTU-66185

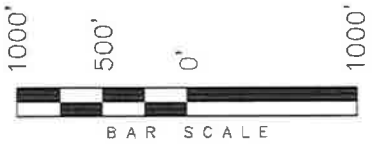
API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, X-22-9-15, LOCATED AS SHOWN IN NWNW (LOT 1) OF SECTION 27, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 67' FNL & 1077' FWL.

◆ = 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
STATE OF UTAH

REGISTERED LAND SURVEYOR No. 189377 05-09-13 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'

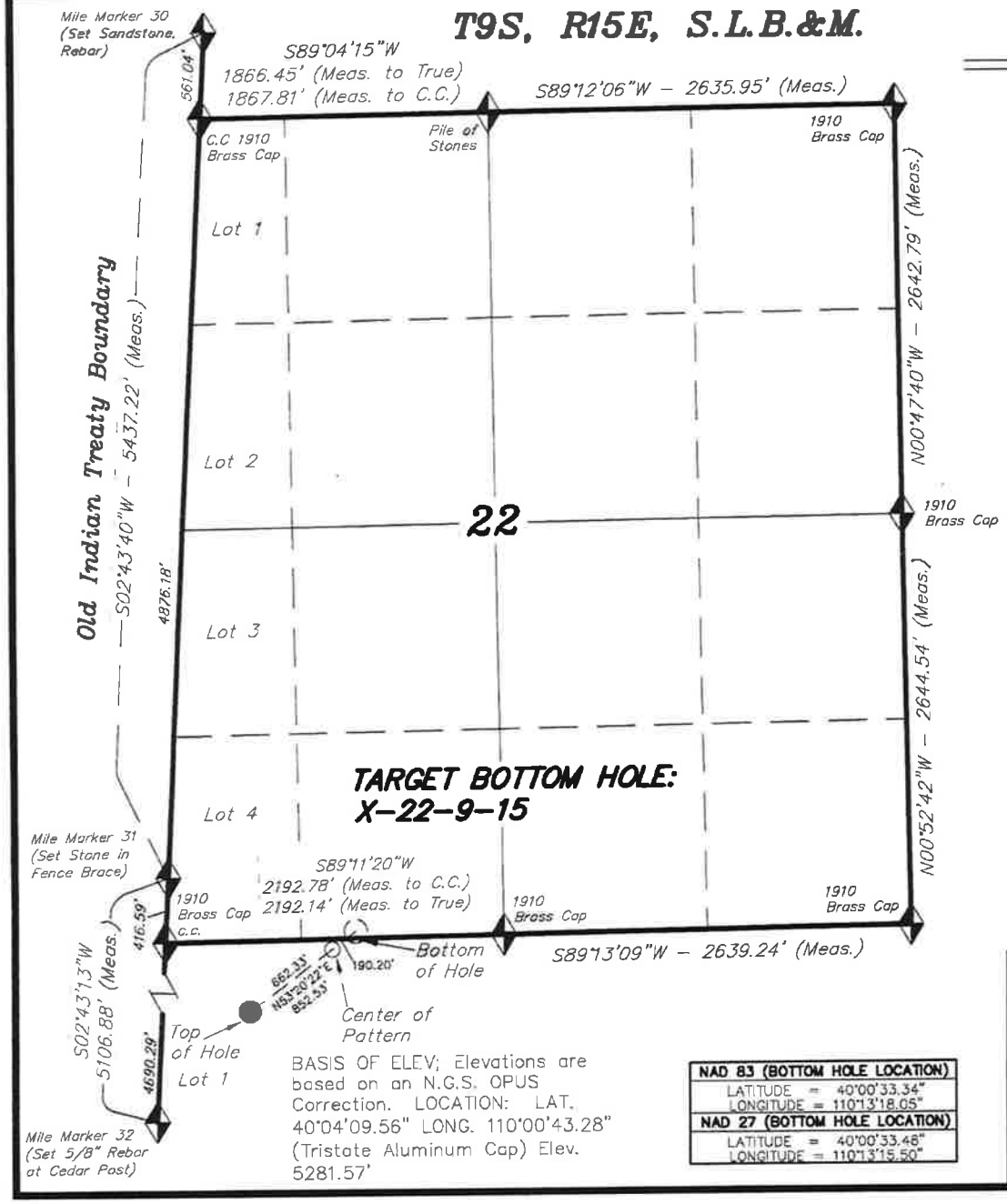
| NAD 83 (CENTER OF PATTERN) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°00'32.24" LONGITUDE = 110°13'20.03" | LATITUDE = 40°00'28.41" LONGITUDE = 110°13'26.93" |
| **NAD 27 (CENTER OF PATTERN)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°00'32.38" LONGITUDE = 110°13'17.48" | LATITUDE = 40°00'28.54" LONGITUDE = 110°13'24.38" |

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000

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




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°00'33.34" |
| LONGITUDE = | 110°13'18.05" |
| **NAD 27 (BOTTOM HOLE LOCATION)** | |
| LATITUDE = | 40°00'33.48" |
| LONGITUDE = | 110°13'15.50" |

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, X-22-9-15, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 22, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'
BAR SCALE

N

**NOTES:**
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 44' FSL & 1224' FWL.

◆ = 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.

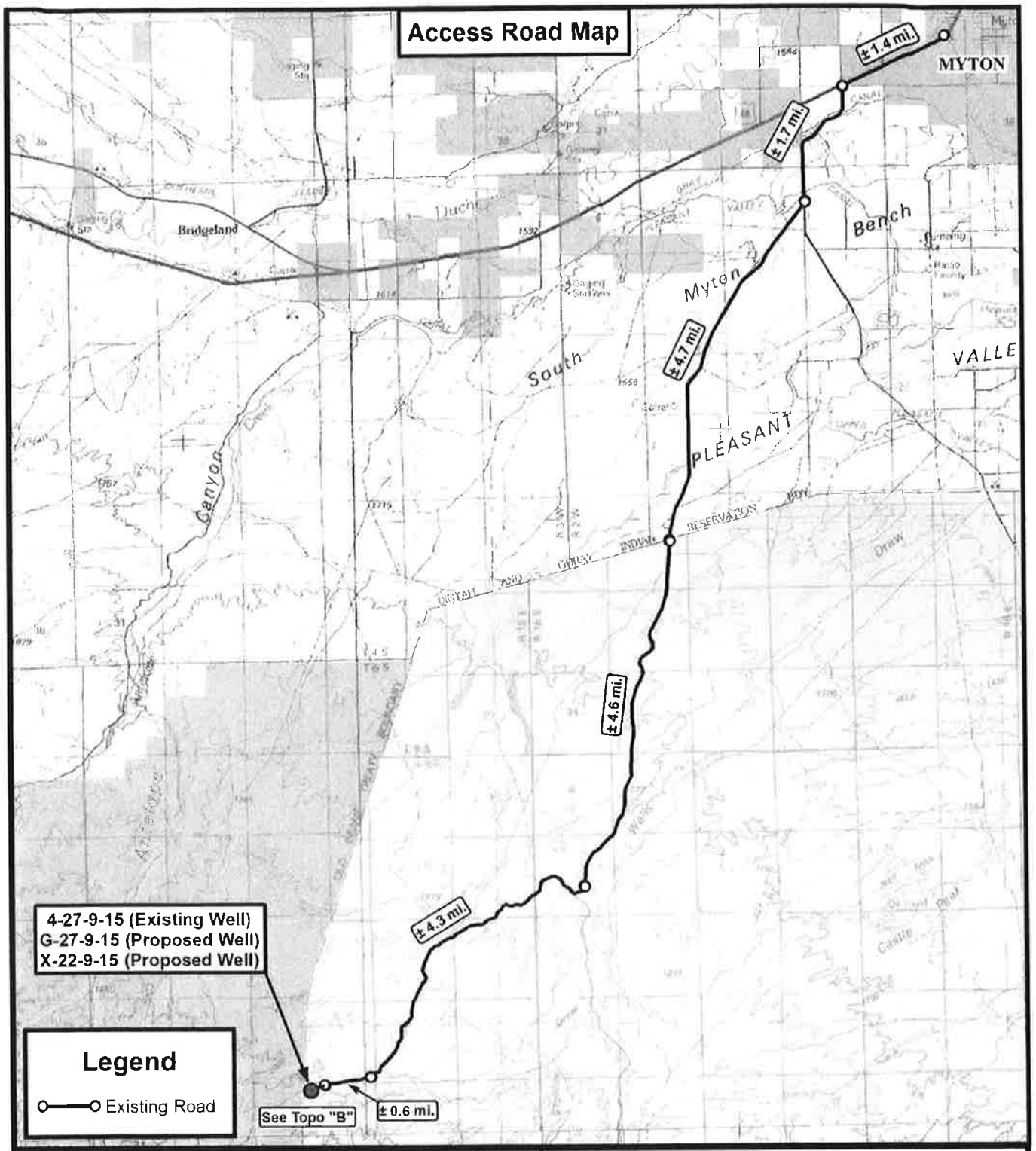
REGISTERED LAND SURVEYOR No. 189377 05-09-13 STACY W. STEWART STATE OF UTAH

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

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000



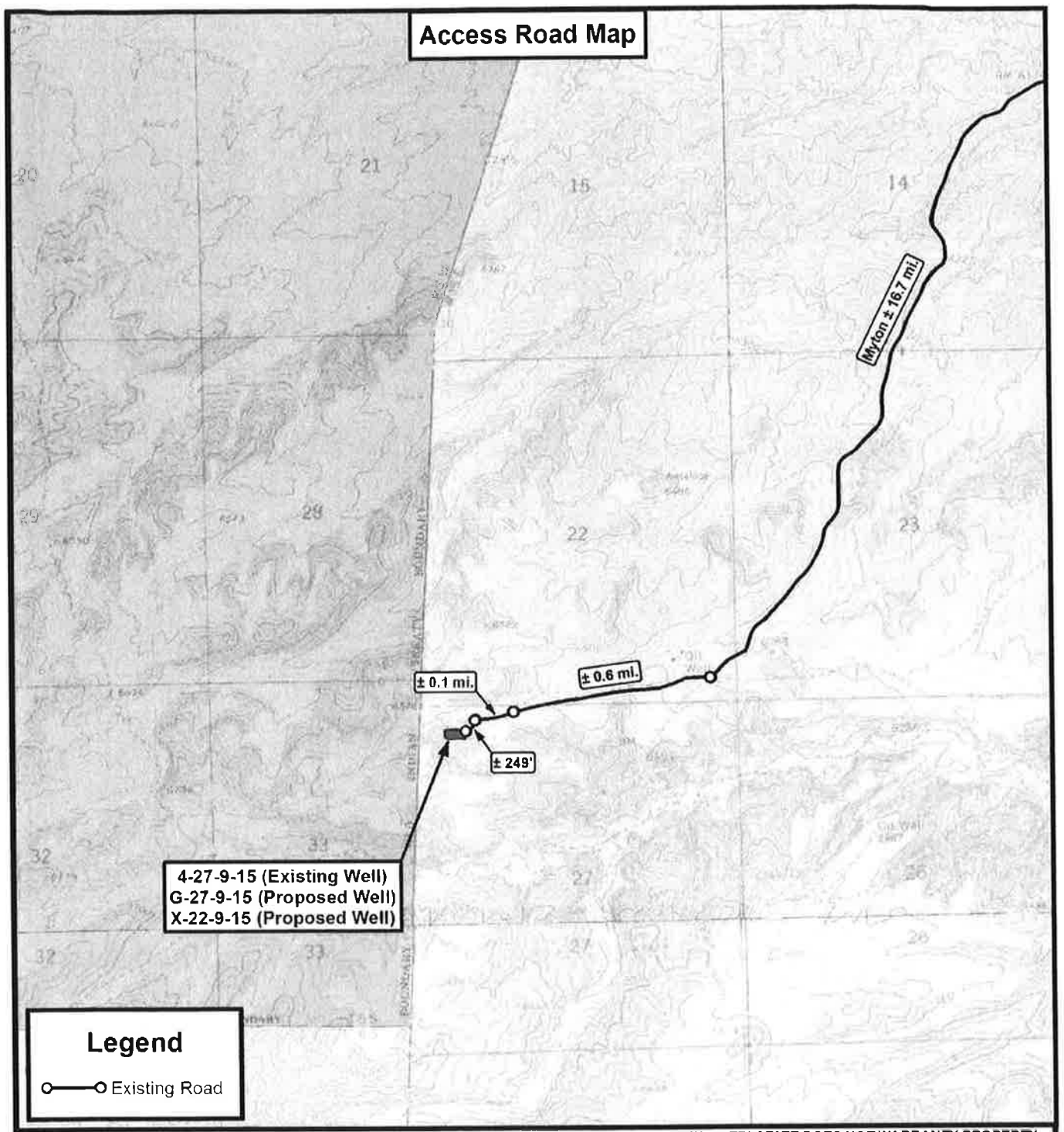

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET A |
| SCALE: 1:100,000 | | | |

API Well Number: 43013524860000




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.
P: (435) 781-2501
F: (435) 781-2518
180 NORTH VERNAL AVE. VERNAL, UTAH 84078


N

**NEWFIELD EXPLORATION COMPANY**

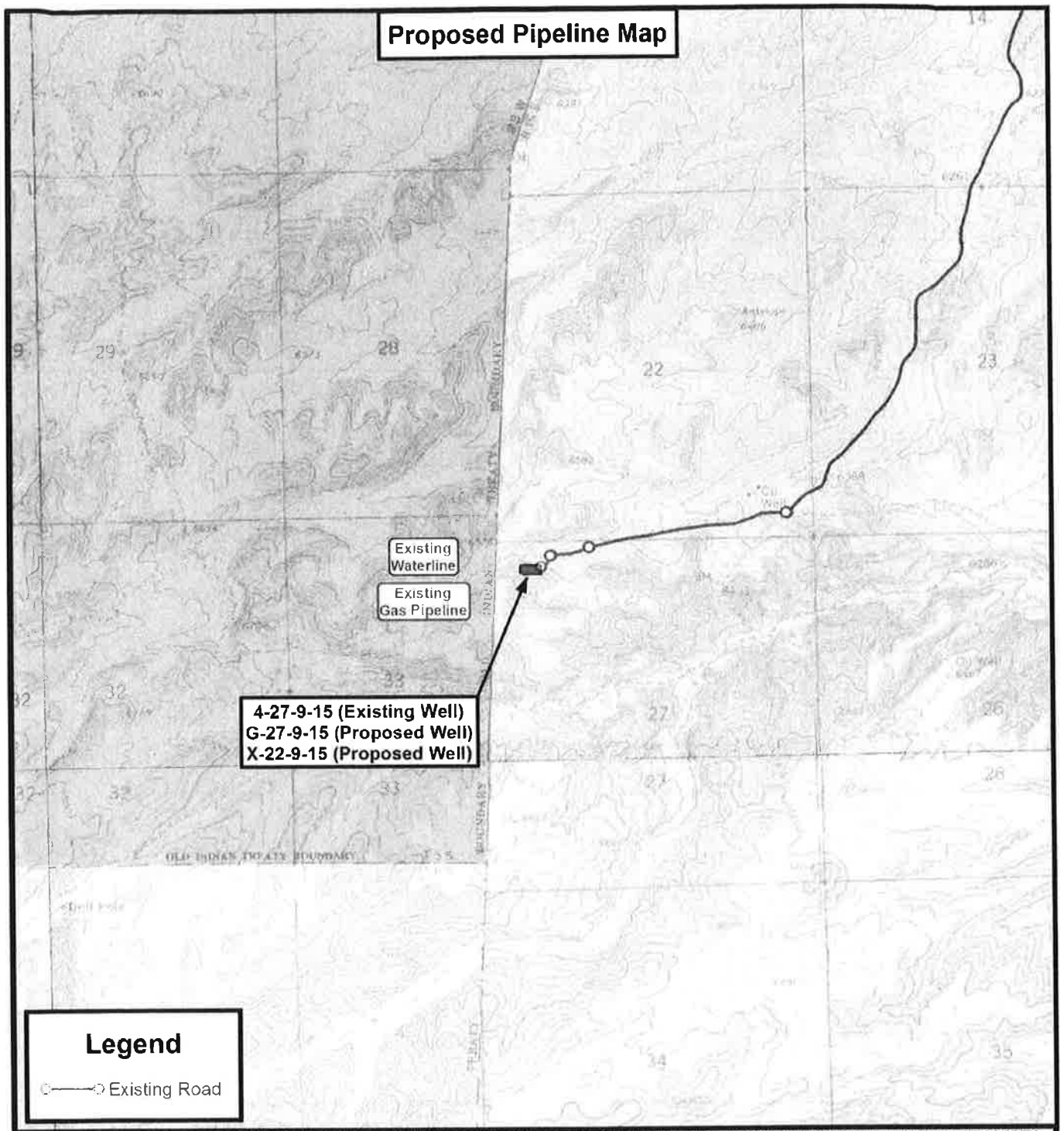
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | |
| DATE: 06-04-2013 | | V2 | |
| SCALE: 1" = 2,000' | | | |

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013524860000




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.
P: (435) 781-2501
F: (435) 781-2518
180 NORTH VERNAL AVE. VERNAL, UTAH 84078


N

**NEWFIELD EXPLORATION COMPANY**

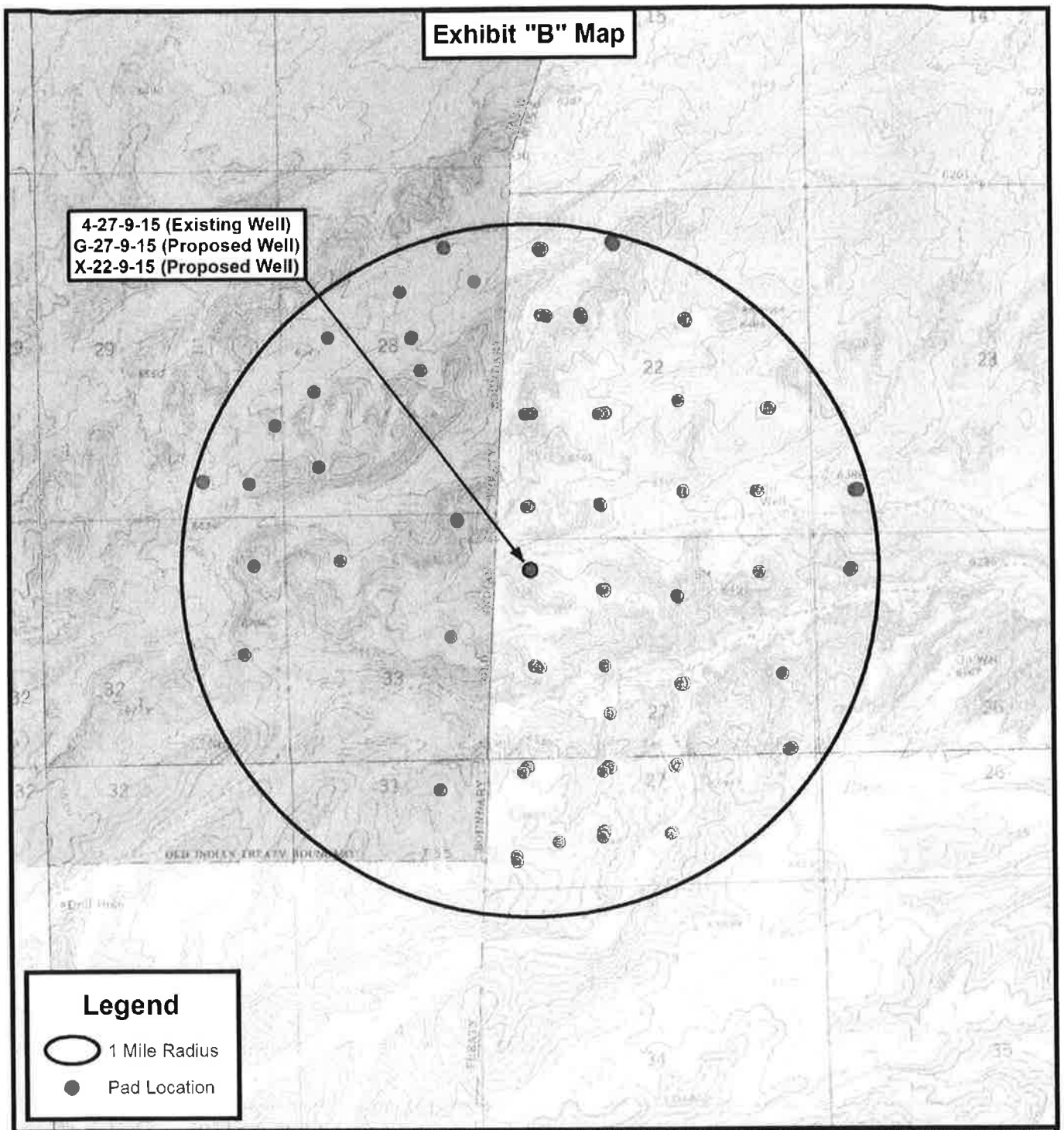
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013524860000




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**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

**TOPOGRAPHIC MAP**

SHEET D

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 83) (DMS) | Longitude (NAD 83) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.12" N | 110° 13' 27.32" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.26" N | 110° 13' 27.12" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.41" N | 110° 13' 26.93" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.19" N | 110° 13' 23.83" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.24" N | 110° 13' 20.03" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.08" N | 110° 13' 22.85" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.34" N | 110° 13' 18.05" W |

| Well Number | Feature Type | Latitude (NAD 83) (DD) | Longitude (NAD 83) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007810 | 110.224255 |
| G-27-9-15 | Surface Hole | 40.007851 | 110.224201 |
| X-22-9-15 | Surface Hole | 40.007892 | 110.224146 |
| G-27-9-15 | Center of Pattern | 40.005885 | 110.223285 |
| X-22-9-15 | Center of Pattern | 40.008956 | 110.222230 |
| G-27-9-15 | Bottom of Hole | 40.005301 | 110.223013 |
| X-22-9-15 | Bottom of Hole | 40.009262 | 110.221680 |

| Well Number | Feature Type | Northing (NAD 83) (UTM Meters) | Longitude (NAD 83) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428912.274 | 566210.161 |
| G-27-9-15 | Surface Hole | 4428916.814 | 566214.760 |
| X-22-9-15 | Surface Hole | 4428921.354 | 566219.359 |
| G-27-9-15 | Center of Pattern | 4428699.288 | 566294.797 |
| X-22-9-15 | Center of Pattern | 4429040.916 | 566381.872 |
| G-27-9-15 | Bottom of Hole | 4428634.642 | 566318.583 |
| X-22-9-15 | Bottom of Hole | 4429075.251 | 566428.541 |

| Well Number | Feature Type | Latitude (NAD 27) (DMS) | Longitude (NAD 27) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.25" N | 110° 13' 24.77" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.40" N | 110° 13' 24.57" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.54" N | 110° 13' 24.38" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.32" N | 110° 13' 21.28" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.38" N | 110° 13' 17.48" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.22" N | 110° 13' 20.30" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.48" N | 110° 13' 15.50" W |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 1

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 27) (DD) | Longitude (NAD 27) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007848 | 110.223547 |
| G-27-9-15 | Surface Hole | 40.007889 | 110.223492 |
| X-22-9-15 | Surface Hole | 40.007929 | 110.223438 |
| G-27-9-15 | Center of Pattern | 40.005923 | 110.222577 |
| X-22-9-15 | Center of Pattern | 40.008993 | 110.221522 |
| G-27-9-15 | Bottom of Hole | 40.005338 | 110.222305 |
| X-22-9-15 | Bottom of Hole | 40.009299 | 110.220972 |

| Well Number | Feature Type | Northing (NAD 27) (UTM Meters) | Longitude (NAD 27) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428706.922 | 566272.341 |
| G-27-9-15 | Surface Hole | 4428711.462 | 566276.939 |
| X-22-9-15 | Surface Hole | 4428716.001 | 566281.538 |
| G-27-9-15 | Center of Pattern | 4428493.935 | 566356.978 |
| X-22-9-15 | Center of Pattern | 4428835.564 | 566444.052 |
| G-27-9-15 | Bottom of Hole | 4428429.289 | 566380.765 |
| X-22-9-15 | Bottom of Hole | 4428869.899 | 566490.722 |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 2

# United States Department of the Interior

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

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

October 21, 2013

Memorandum

To: Assistant Field Office Manager Minerals, Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

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

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

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52485 | GMBU G-27-9-15 | Sec 27 T09S R15E 0470 FNL 0551 FWL |
| | | BHL Sec 27 T09S R15E 1399 FNL 0940 FWL |
| 43-013-52486 | GMBU X-22-9-15 | Sec 27 T09S R15E 0455 FNL 0565 FWL |
| | | BHL Sec 22 T09S R15E 0044 FSL 1224 FWL |
| 43-013-52487 | GMBU H-25-9-15 | Sec 25 T09S R15E 0777 FNL 2061 FWL |
| | | BHL Sec 25 T09S R15E 1357 FNL 2496 FEL |
| 43-013-52488 | GMBU G-25-9-15 | Sec 25 T09S R15E 0756 FNL 2061 FWL |
| | | BHL Sec 25 T09S R15E 1236 FNL 0951 FWL |
| 43-013-52489 | GMBU V-20-8-17 | Sec 29 T08S R17E 0632 FNL 1913 FEL |
| | | BHL Sec 20 T08S R17E 0181 FSL 1173 FEL |
| 43-013-52490 | GMBU H-29-8-17 | Sec 29 T08S R17E 0647 FNL 1897 FEL |
| | | BHL Sec 29 T08S R17E 1541 FNL 2455 FWL |
| 43-013-52491 | GMBU I-28-8-17 | Sec 28 T08S R17E 0874 FNL 2191 FEL |
| | | BHL Sec 28 T08S R17E 1553 FNL 1190 FEL |
| 43-013-52492 | GMBU H-28-8-17 | Sec 28 T08S R17E 0888 FNL 2206 FEL |
| | | BHL Sec 28 T08S R17E 1390 FNL 2563 FWL |
| 43-013-52494 | GMBU P-22-9-16 | Sec 21 T09S R16E 0657 FSL 0813 FEL |
| | | BHL Sec 22 T09S R16E 1797 FSL 0118 FWL |
| 43-013-52499 | GMBU P-23-9-15 | Sec 22 T09S R15E 1910 FSL 0662 FEL |
| | | BHL Sec 23 T09S R15E 1089 FSL 0305 FWL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52500 | GMBU S-22-9-15 | Sec 22 T09S R15E 1906 FSL 0683 FEL |
| | | BHL Sec 22 T09S R15E 1086 FSL 1581 FEL |
| 43-013-52501 | GMBU O-23-9-15 | Sec 22 T09S R15E 1831 FNL 0728 FEL |
| | | BHL Sec 23 T09S R15E 2450 FSL 0110 FWL |
| 43-013-52502 | GMBU L-22-9-15 | Sec 22 T09S R15E 1851 FNL 0734 FEL |
| | | BHL Sec 22 T09S R15E 2488 FSL 1446 FEL |
| 43-013-52503 | GMBU P-1-9-15 | Sec 02 T09S R15E 2003 FSL 0632 FEL |
| | | BHL Sec 01 T09S R15E 1252 FSL 0190 FWL |
| 43-013-52504 | GMBU 126-6-9-17 | Sec 06 T09S R17E 1836 FSL 1794 FEL |
| | | BHL Sec 06 T09S R17E 1000 FSL 2143 FEL |
| 43-013-52505 | GMBU I-20-9-17 | Sec 20 T09S R17E 0581 FNL 0801 FEL |
| | | BHL Sec 20 T09S R17E 1665 FNL 1455 FEL |
| 43-013-52506 | GMBU F-21-9-17 | Sec 20 T09S R17E 0568 FNL 0784 FEL |
| | | BHL Sec 21 T09S R17E 1586 FNL 0263 FWL |
| 43-013-52507 | GMBU D-19-9-17 | Sec 18 T09S R17E 0603 FSL 2008 FWL |
| | | BHL Sec 19 T09S R17E 0179 FNL 1064 FWL |
| 43-013-52508 | GMBU C-19-9-17 | Sec 18 T09S R17E 0610 FSL 2028 FWL |
| | | BHL Sec 19 T09S R17E 0188 FNL 2449 FEL |
| 43-013-52509 | GMBU P-18-9-17 | Sec 13 T09S R16E 0653 FSL 0640 FEL |
| | | BHL Sec 18 T09S R17E 1598 FSL 0129 FWL |
| 43-013-52510 | GMBU D-25-9-16 | Sec 24 T09S R16E 0654 FSL 2279 FWL |
| | | BHL Sec 25 T09S R16E 0099 FNL 1001 FWL |
| 43-013-52512 | GMBU C-25-9-16 | Sec 24 T09S R16E 0635 FSL 2288 FWL |
| | | BHL Sec 25 T09S R16E 0080 FNL 2548 FEL |
| 43-013-52513 | GMBU S-21-9-16 | Sec 21 T09S R16E 2010 FSL 1788 FEL |
| | | BHL Sec 21 T09S R16E 1155 FSL 1240 FEL |
| 43-013-52514 | GMBU L-21-9-16 | Sec 21 T09S R16E 2026 FSL 1774 FEL |
| | | BHL Sec 21 T09S R16E 2433 FNL 1158 FEL |
| 43-013-52515 | GMBU Q-17-9-16 | Sec 17 T09S R16E 0702 FSL 0826 FWL |
| | | BHL Sec 17 T09S R16E 1406 FSL 1459 FWL |
| 43-013-52516 | GMBU R-17-9-16 | Sec 17 T09S R16E 0789 FSL 1950 FEL |
| | | BHL Sec 17 T09S R16E 1550 FSL 2303 FWL |
| 43-013-52517 | GMBU E-19-9-17 | Sec 13 T09S R16E 0633 FSL 0632 FEL |
| | | BHL Sec 19 T09S R17E 0182 FNL 0180 FWL |
| 43-013-52518 | GMBU S-13-9-16 | Sec 13 T09S R16E 0708 FSL 1931 FEL |
| | | BHL Sec 13 T09S R16E 1525 FSL 1236 FEL |
| 43-013-52519 | GMBU B-24-9-16 | Sec 13 T09S R16E 0687 FSL 1927 FEL |
| | | BHL Sec 24 T09S R16E 0120 FNL 1237 FEL |
| 43-013-52520 | GMBU E-28-8-17 | Sec 20 T08S R17E 0197 FSL 0251 FEL |
| | | BHL Sec 28 T08S R17E 0475 FNL 0143 FWL |
| 43-013-52521 | GMBU R-27-9-15 | Sec 27 T09S R15E 0798 FSL 1816 FWL |
| | | BHL Sec 27 T09S R15E 1448 FSL 2496 FEL |
| 43-013-52522 | GMBU P-21-8-17 | Sec 20 T08S R17E 0205 FSL 0231 FEL |
| | | BHL Sec 21 T08S R17E 1570 FSL 0065 FWL |
| 43-013-52523 | GMBU Q-27-9-15 | Sec 27 T09S R15E 1791 FSL 0609 FWL |
| | | BHL Sec 27 T09S R15E 1015 FSL 1409 FWL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52524 | GMBU D-26-9-15 | Sec 23 T09S R15E 0648 FSL 0645 FWL |
| | | BHL Sec 26 T09S R15E 0188 FNL 1636 FWL |
| 43-013-52525 | GMBU A-27-9-15 | Sec 23 T09S R15E 0641 FSL 0625 FWL |
| | | BHL Sec 27 T09S R15E 0146 FNL 0271 FEL |
| 43-013-52526 | GMBU Q-26-9-15 | Sec 26 T09S R15E 0681 FSL 0646 FWL |
| | | BHL Sec 26 T09S R15E 1384 FSL 1518 FWL |
| 43-013-52527 | GMBU B-22-9-15 | Sec 15 T09S R15E 0567 FSL 1868 FEL |
| | | BHL Sec 22 T09S R15E 0303 FNL 1250 FEL |
| 43-013-52528 | GMBU Q-1-9-15 | Sec 01 T09S R15E 2078 FSL 0667 FWL |
| | | BHL Sec 01 T09S R15E 1330 FSL 1416 FWL |
| 43-013-52529 | GMBU C-28-8-17 | Sec 21 T08S R17E 0682 FSL 1993 FWL |
| | | BHL Sec 28 T08S R17E 0134 FNL 2455 FEL |
| 43-013-52530 | GMBU C-20-9-16 | Sec 17 T09S R16E 0770 FSL 1941 FEL |
| | | BHL Sec 20 T09S R16E 0200 FNL 2185 FWL |
| 43-013-52531 | GMBU D-20-9-16 | Sec 17 T09S R16E 0681 FSL 0821 FWL |
| | | BHL Sec 20 T09S R16E 0183 FNL 1441 FWL |
| 43-013-52539 | GMBU C-16-9-17 | Sec 09 T09S R17E 0642 FSL 1988 FWL |
| | | BHL Sec 16 T09S R17E 0166 FNL 2342 FEL |
| 43-013-52540 | GMBU X-1-9-15 | Sec 12 T09S R15E 0661 FNL 2004 FWL |
| | | BHL Sec 01 T09S R15E 0447 FSL 0992 FWL |
| 43-013-52543 | GMBU U-21-9-16 | Sec 21 T09S R16E 0638 FSL 0820 FEL |
| | | BHL Sec 21 T09S R16E 0084 FSL 0131 FEL |
| 43-013-52569 | GMBU V-27-8-17 | Sec 34 T08S R17E 0516 FNL 0714 FEL |
| | | BHL Sec 27 T08S R17E 0127 FSL 1481 FEL |
| 43-013-52570 | GMBU B-28-8-17 | Sec 21 T08S R17E 0617 FSL 0464 FEL |
| | | BHL Sec 28 T08S R17E 0152 FNL 1476 FEL |
| 43-013-52571 | GMBU Y-26-8-17 | Sec 34 T08S R17E 0492 FNL 0714 FEL |
| | | BHL Sec 26 T08S R17E 0118 FSL 0171 FWL |
| 43-013-52572 | GMBU C-34-8-17 | Sec 27 T08S R17E 0544 FSL 1734 FEL |
| | | BHL Sec 34 T08S R17E 0141 FNL 2341 FWL |
| 43-013-52573 | GMBU J-26-9-15 | Sec 25 T09S R15E 2080 FNL 0536 FWL |
| | | BHL Sec 26 T09S R15E 0988 FNL 0126 FEL |
| 43-013-52574 | GMBU N-25-9-15 | Sec 25 T09S R15E 2080 FNL 0557 FWL |
| | | BHL Sec 25 T09S R15E 2409 FSL 1553 FWL |
| 43-013-52575 | GMBU S-27-9-15 | Sec 27 T09S R15E 0639 FSL 0670 FEL |
| | | BHL Sec 27 T09S R15E 1438 FSL 1663 FEL |
| 43-013-52578 | GMBU J-16-9-17 | Sec 15 T09S R17E 2051 FNL 0763 FWL |
| | | BHL Sec 16 T09S R17E 1141 FNL 0047 FEL |
| 43-013-52579 | GMBU J-22-9-15 | Sec 23 T09S R15E 1834 FNL 0529 FWL |
| | | BHL Sec 22 T09S R15E 0993 FNL 0235 FEL |
| 43-013-52580 | GMBU N-23-9-15 | Sec 23 T09S R15E 1833 FNL 0550 FWL |
| | | BHL Sec 23 T09S R15E 2457 FSL 1365 FWL |
| 43-013-52581 | GMBU J-12-9-15 | Sec 07 T09S R16E 1992 FNL 0706 FWL |
| | | BHL Sec 12 T09S R15E 1030 FNL 0144 FEL |
| 43-013-52582 | GMBU L-20-9-17 | Sec 20 T09S R17E 2025 FNL 0636 FEL |
| | | BHL Sec 20 T09S R17E 2539 FSL 1389 FEL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52583 | GMBU F-22-9-16 | Sec 21 T09S R16E 1788 FNL 0767 FEL |
| | | BHL Sec 22 T09S R16E 1160 FNL 0221 FWL |
| 43-013-52584 | GMBU G-22-9-16 | Sec 22 T09S R16E 2299 FNL 2079 FWL |
| | | BHL Sec 22 T09S R16E 1261 FNL 1283 FWL |
| 43-013-52585 | GMBU N-22-9-16 | Sec 22 T09S R16E 2318 FNL 2070 FWL |
| | | BHL Sec 22 T09S R16E 2499 FSL 0960 FWL |
| 43-013-52586 | GMBU O-22-9-16 | Sec 21 T09S R16E 1809 FNL 0769 FEL |
| | | BHL Sec 22 T09S R16E 2496 FSL 0103 FWL |
| 43-047-54059 | GMBU C-26-8-17 | Sec 23 T08S R17E 0234 FSL 2047 FWL |
| | | BHL Sec 26 T08S R17E 0111 FNL 2544 FEL |

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

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2013.10.21 14:14:44 -06'00'

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

MCoulthard:mc:10-21-13

RECEIVED: October 22, 2013

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 9/29/2013
**API NO. ASSIGNED:** 43013524860000
**WELL NAME:** GMBU X-22-9-15
**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)
**PHONE NUMBER:** 435 646-4825
**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** NWNW 27 090S 150E
**Permit Tech Review:** ✔

**SURFACE:** 0455 FNL 0565 FWL
**Engineering Review:** ☐

**BOTTOM:** 0044 FSL 1224 FWL
**Geology Review:** ✔

**COUNTY:** DUCHESNE
**LATITUDE:** 40.00970
**LONGITUDE:** -110.22403
**UTM SURF EASTINGS:** 566229.00
**NORTHINGS:** 4428912.00
**FIELD NAME:** MONUMENT BUTTE
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU-66185
**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

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

**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
15 - Directional - dmason
27 - Other - bhill

RECEIVED: October 22, 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 X-22-9-15
**API Well Number:** 43013524860000
**Lease Number:** UTU-66185
**Surface Owner:** FEDERAL
**Approval Date:** 10/22/2013

**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:**
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).

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.

**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

API Well Number: 43013524860000

**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 X-22-9-15

**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-66185

**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 | 455 FNL 565 FWL | NWNW | 27 | 9.0 S | 15.0 E | S |
| Top of Uppermost Producing Zone | 175 FNL 941 FWL | NWNW | 27 | 9.0 S | 15.0 E | S |
| At Total Depth | 44 FSL 1224 FWL | SESW | 22 | 9.0 S | 15.0 E | S |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
1224

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

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
1515

**26. PROPOSED DEPTH**
MD: 5971 TVD: 5900

**27. ELEVATION - GROUND LEVEL**
6565

**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 - 5971 | 15.5 | J-55 LT&C | 8.3 | Premium Lite High Strength | 274 | 3.26 | 11.0 |
| | | | | | | | 50/50 Poz | 363 | 1.24 | 14.3 |

### ATTACHMENTS

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

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

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

**SIGNATURE** | **DATE** 09/29/2013 | **EMAIL** mcrozier@newfield.com

**API NUMBER ASSIGNED**
43013524860000

**APPROVAL**
Permit Manager

RECEIVED: October 22, 2013

NEWFIELD PRODUCTION COMPANY
GMBU X-22-9-15
AT SURFACE: NW/NW (LOT #1) SECTION 27, T9S R15E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

| | | |
|---|---|---|
| Uinta | 0' – 3,725' | |
| Green River | 3,725' | |
| Wasatch | 6,005' | |
| **Proposed TD** | 5,971'(MD) | 5,900' (TVD) |

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

Green River Formation (Oil) 3,725' – 6,005'

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: September 29, 2013

## 4. *PROPOSED CASING PROGRAM*

### a. Casing Design: GMBU X-22-9-15

| Size | Interval | | Weight | Grade | Coupling | Design Factors | | |
|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | | | | Burst | Collapse | Tension |
| Surface casing 8-5/8" | 0' | 300' | 24.0 | J-55 | STC | 2,950<br>17.53 | 1,370<br>14.35 | 244,000<br>33.89 |
| Prod casing 5-1/2" | 0' | 5,971' | 15.5 | J-55 | LTC | 4,810<br>2.53 | 4,040<br>2.13 | 217,000<br>2.34 |

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 X-22-9-15

| 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 | 3,971' | Prem Lite II w/ 10% gel + 3% KCl | 274<br>894 | 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: September 29, 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: September 29, 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 first quarter of 2014, and take approximately seven (7) days from spud to rig release.

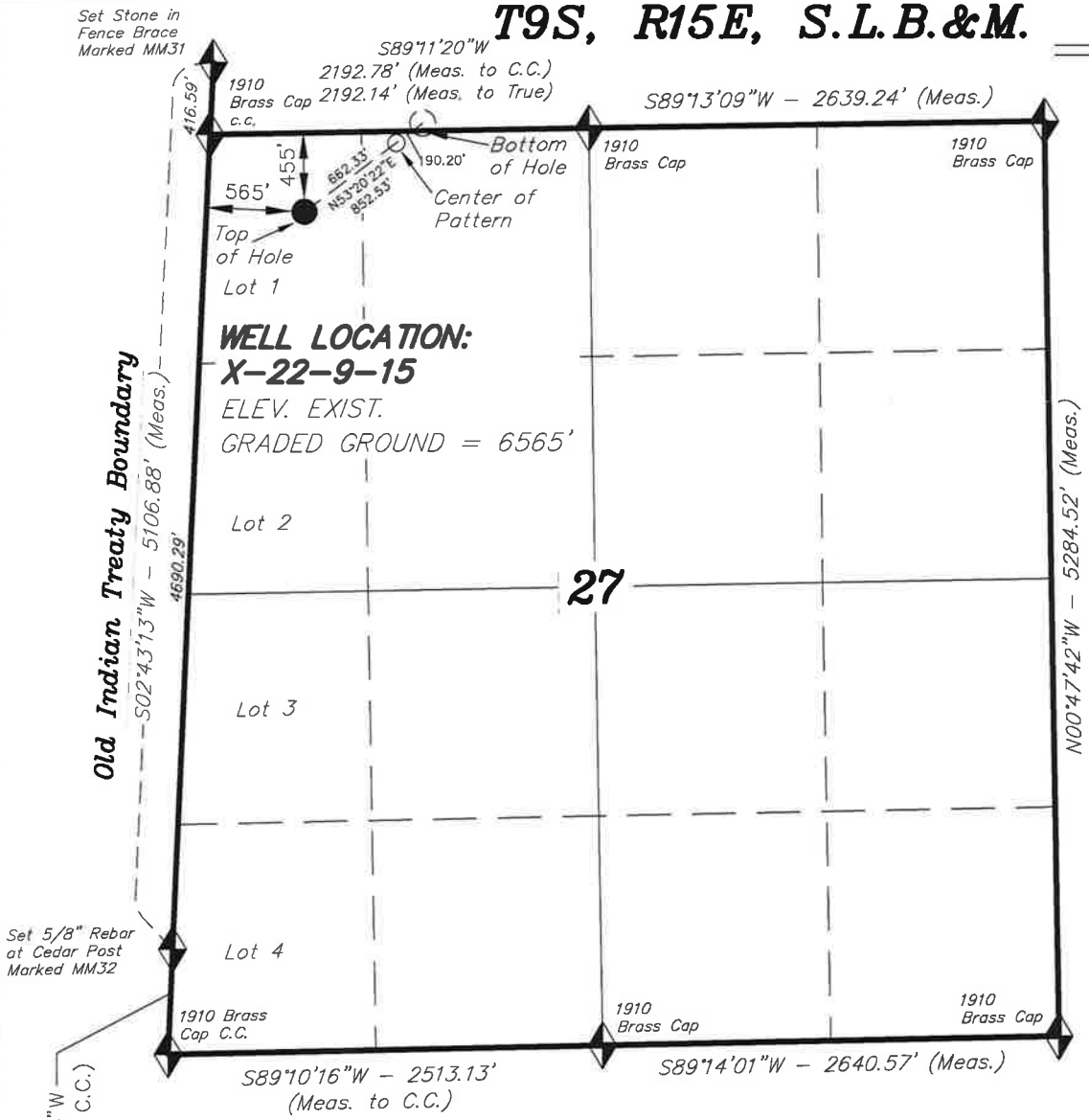
RECEIVED: September 29, 2013

API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, X-22-9-15, LOCATED AS SHOWN IN NWNW (LOT 1) OF SECTION 27, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 67' FNL & 1077' FWL.

N

◆ = 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 05-09-13 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH 02-16-11

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 (CENTER OF PATTERN) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°00'32.24"<br>LONGITUDE = 110°13'20.03" | LATITUDE = 40°00'28.41"<br>LONGITUDE = 110°13'26.93" |
| **NAD 27 (CENTER OF PATTERN)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°00'32.38"<br>LONGITUDE = 110°13'17.48" | LATITUDE = 40°00'28.54"<br>LONGITUDE = 110°13'24.38" |

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

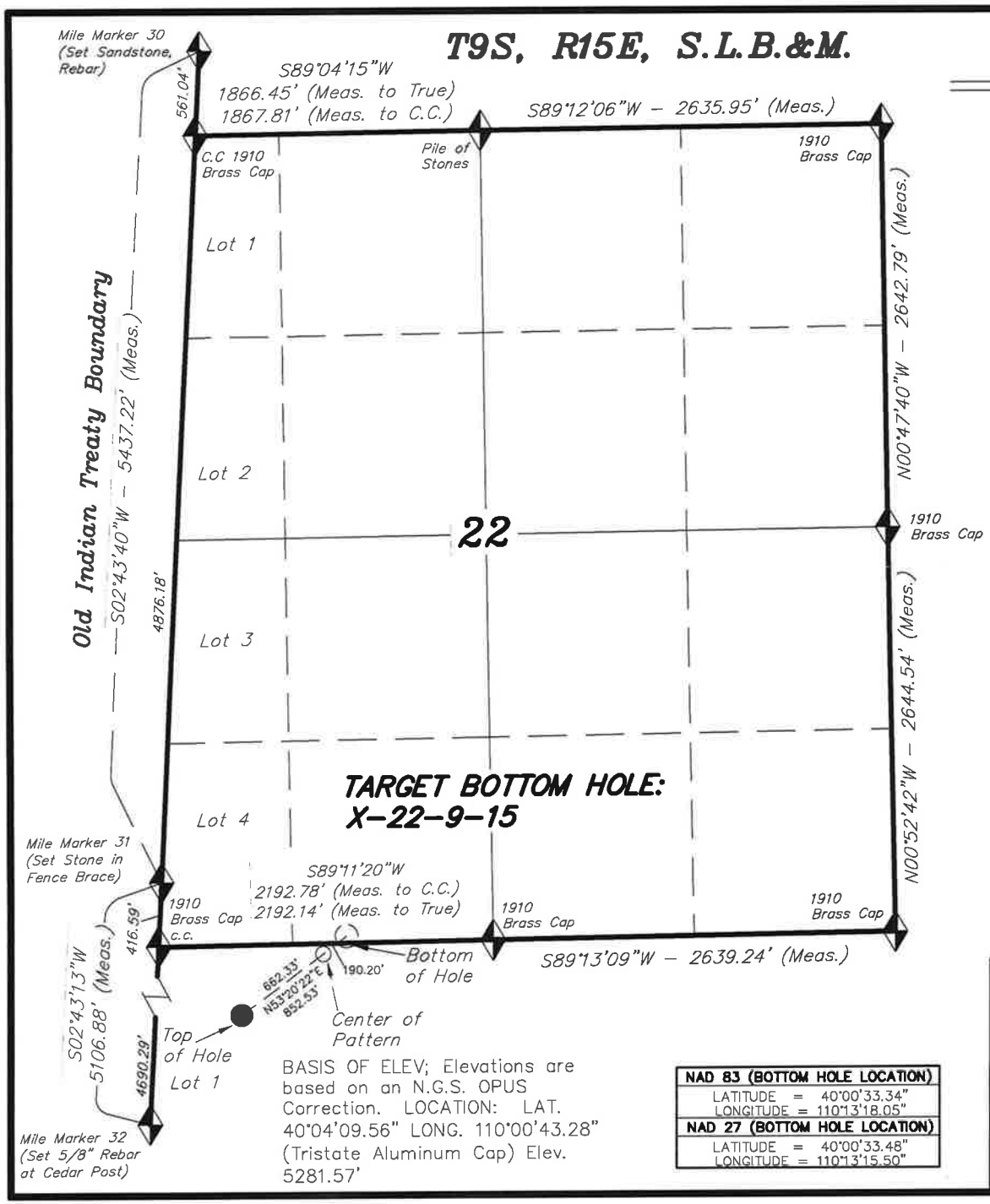
| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, X-22-9-15, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 22, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, 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°00'33.34" |
| LONGITUDE = 110°13'18.05" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°00'33.48" |
| LONGITUDE = 110°13'15.50" |

1000' 500' 0' 1000'

BAR SCALE

N

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 44' FSL & 1224' FWL.

◆ = 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.

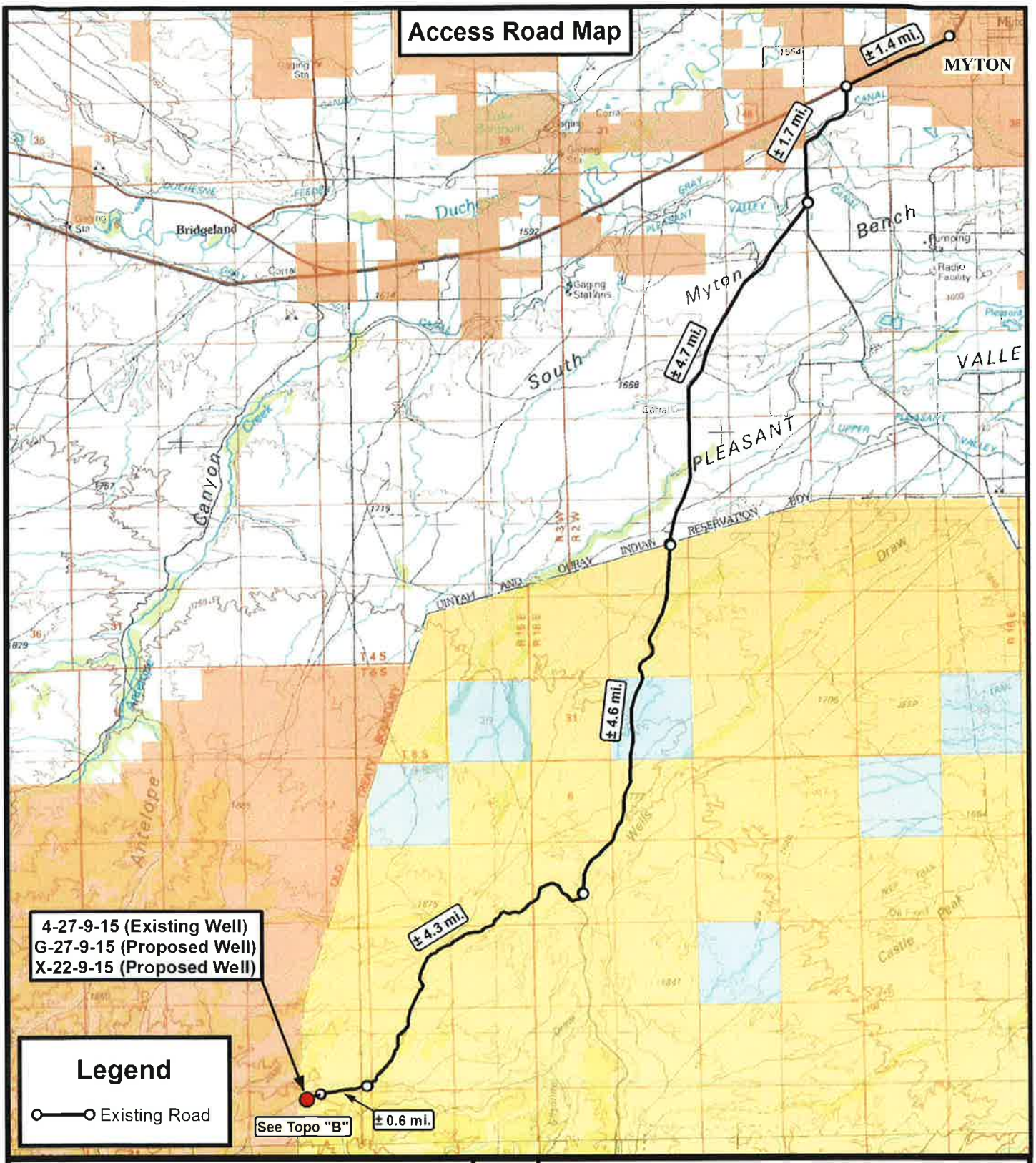
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

REGISTERED LAND SURVEYOR
No. 189377
05-09-13
STACY W. STEWART
STATE OF UTAH

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000



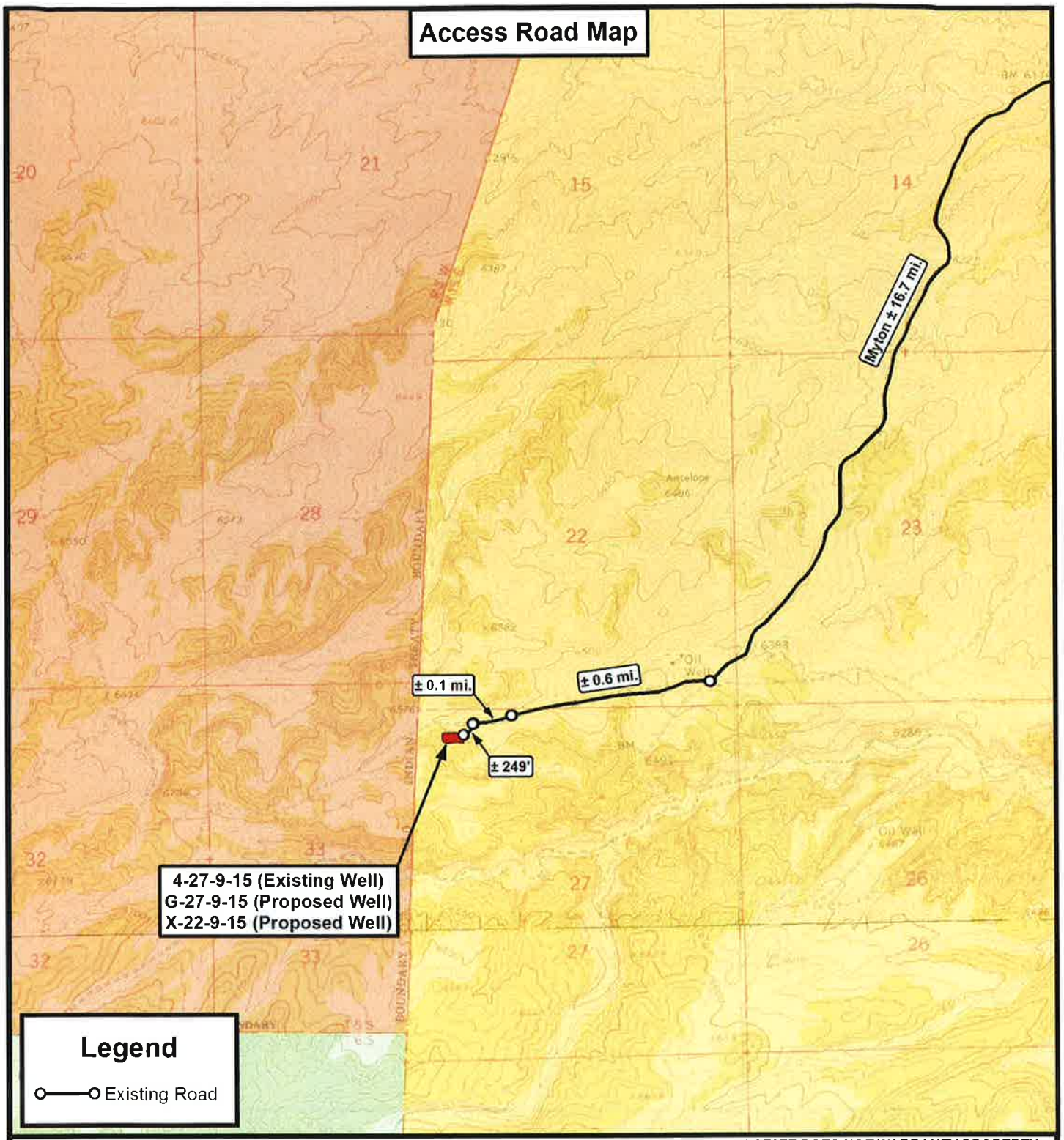

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET A |
| SCALE: 1:100,000 | | | |

API Well Number: 43013524860000




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


| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

N

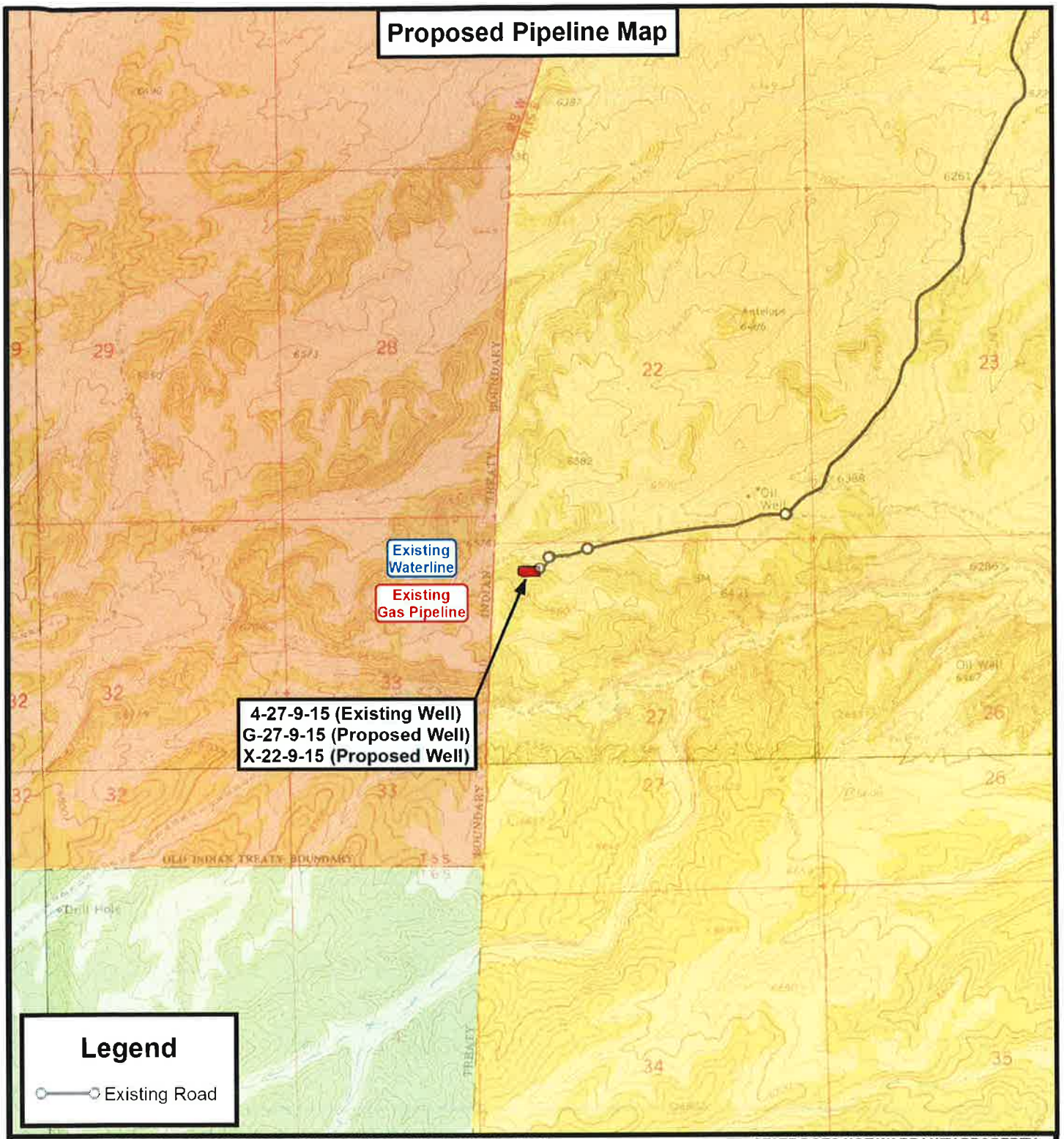
**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013524860000




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

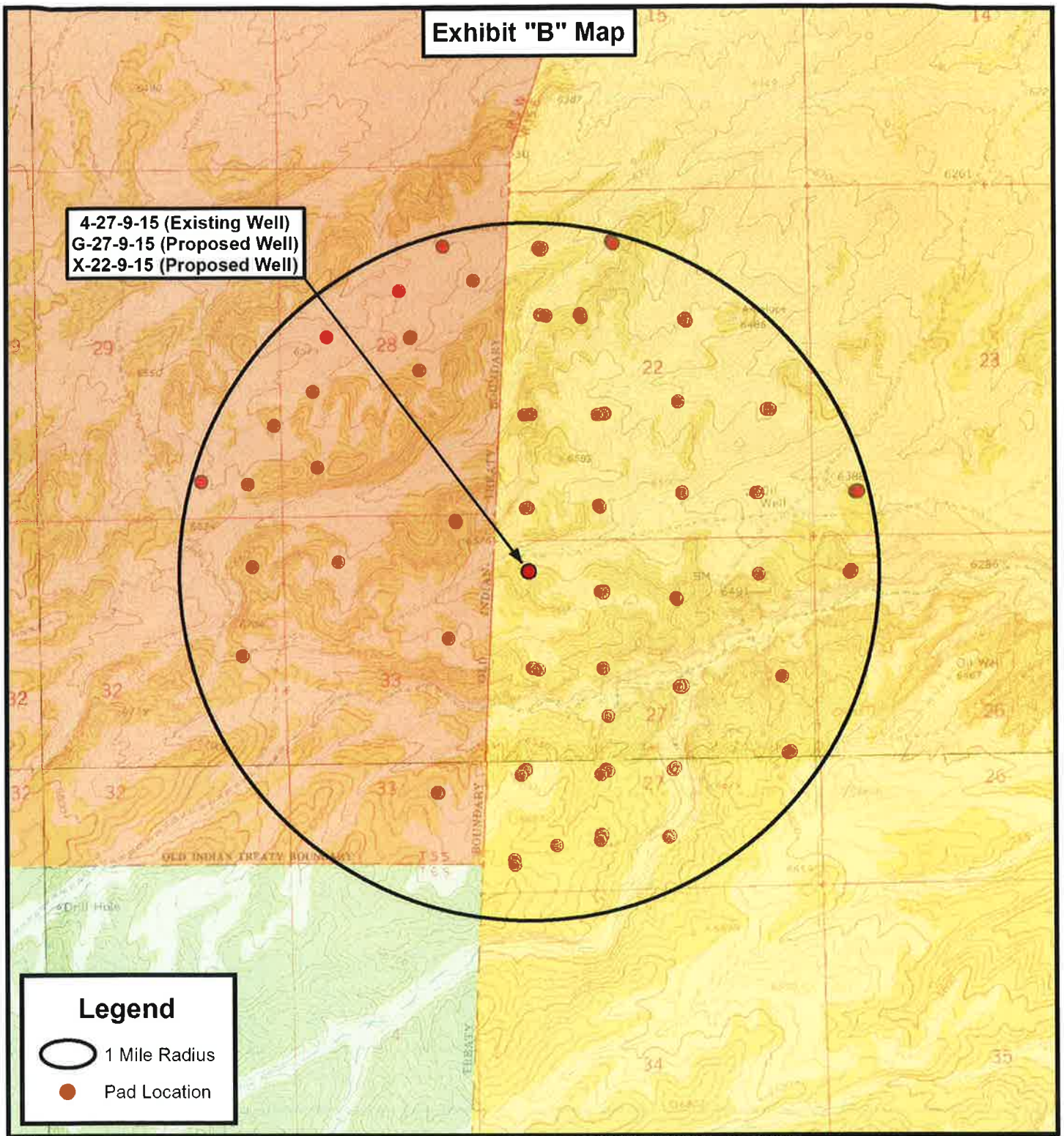

N

**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET C |
| SCALE: 1 " = 2,000 ' | | | |

API Well Number: 43013524860000




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**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET D |
| SCALE: 1 " = 2,000 ' | | | |

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 83) (DMS) | Longitude (NAD 83) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.12" N | 110° 13' 27.32" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.26" N | 110° 13' 27.12" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.41" N | 110° 13' 26.93" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.19" N | 110° 13' 23.83" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.24" N | 110° 13' 20.03" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.08" N | 110° 13' 22.85" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.34" N | 110° 13' 18.05" W |

| Well Number | Feature Type | Latitude (NAD 83) (DD) | Longitude (NAD 83) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007810 | 110.224255 |
| G-27-9-15 | Surface Hole | 40.007851 | 110.224201 |
| X-22-9-15 | Surface Hole | 40.007892 | 110.224146 |
| G-27-9-15 | Center of Pattern | 40.005885 | 110.223285 |
| X-22-9-15 | Center of Pattern | 40.008956 | 110.222230 |
| G-27-9-15 | Bottom of Hole | 40.005301 | 110.223013 |
| X-22-9-15 | Bottom of Hole | 40.009262 | 110.221680 |

| Well Number | Feature Type | Northing (NAD 83) (UTM Meters) | Longitude (NAD 83) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428912.274 | 566210.161 |
| G-27-9-15 | Surface Hole | 4428916.814 | 566214.760 |
| X-22-9-15 | Surface Hole | 4428921.354 | 566219.359 |
| G-27-9-15 | Center of Pattern | 4428699.288 | 566294.797 |
| X-22-9-15 | Center of Pattern | 4429040.916 | 566381.872 |
| G-27-9-15 | Bottom of Hole | 4428634.642 | 566318.583 |
| X-22-9-15 | Bottom of Hole | 4429075.251 | 566428.541 |

| Well Number | Feature Type | Latitude (NAD 27) (DMS) | Longitude (NAD 27) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.25" N | 110° 13' 24.77" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.40" N | 110° 13' 24.57" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.54" N | 110° 13' 24.38" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.32" N | 110° 13' 21.28" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.38" N | 110° 13' 17.48" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.22" N | 110° 13' 20.30" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.48" N | 110° 13' 15.50" W |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 1

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 27) (DD) | Longitude (NAD 27) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007848 | 110.223547 |
| G-27-9-15 | Surface Hole | 40.007889 | 110.223492 |
| X-22-9-15 | Surface Hole | 40.007929 | 110.223438 |
| G-27-9-15 | Center of Pattern | 40.005923 | 110.222577 |
| X-22-9-15 | Center of Pattern | 40.008993 | 110.221522 |
| G-27-9-15 | Bottom of Hole | 40.005338 | 110.222305 |
| X-22-9-15 | Bottom of Hole | 40.009299 | 110.220972 |

| Well Number | Feature Type | Northing (NAD 27) (UTM Meters) | Longitude (NAD 27) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428706.922 | 566272.341 |
| G-27-9-15 | Surface Hole | 4428711.462 | 566276.939 |
| X-22-9-15 | Surface Hole | 4428716.001 | 566281.538 |
| G-27-9-15 | Center of Pattern | 4428493.935 | 566356.978 |
| X-22-9-15 | Center of Pattern | 4428835.564 | 566444.052 |
| G-27-9-15 | Bottom of Hole | 4428429.289 | 566380.765 |
| X-22-9-15 | Bottom of Hole | 4428869.899 | 566490.722 |

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

**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 2

API Well Number: 43013524860000

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 27**
**X-22-9-15**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report

**28 April, 2013**

RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

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

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

**Site** SECTION 27

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,174,111.94 ft | **Latitude:** | 40° 0' 27.380 N |
| **From:** | Lat/Long | **Easting:** | 2,002,592.07 ft | **Longitude:** | 110° 12' 25.040 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | 0" | **Grid Convergence:** | 0.83 ° |

**Well** X-22-9-15, SHL LAT: 40 00 28.41 LONG: -110 13 26.93

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 103.7 ft | **Northing:** | 7,174,146.98 ft | **Latitude:** | 40° 0' 28.410 N |
| | **+E/-W** | -4,815.5 ft | **Easting:** | 1,997,775.61 ft | **Longitude:** | 110° 13' 26.930 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 6,575.0 ft | **Ground Level:** | 6,565.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 4/28/2013 | 11.13 | 65.69 | 52,035 |

**Design** Design #1

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 53.34 |

**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 | |
| 1,248.3 | 9.72 | 53.34 | 1,245.2 | 32.8 | 44.0 | 1.50 | 1.50 | 8.23 | 53.34 | |
| 4,844.8 | 9.72 | 53.34 | 4,790.0 | 395.5 | 531.3 | 0.00 | 0.00 | 0.00 | 0.00 | X-22-9-15 TGT |
| 5,971.0 | 9.72 | 53.34 | 5,900.0 | 509.0 | 683.9 | 0.00 | 0.00 | 0.00 | 0.00 | |



RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 1.50 | 53.34 | 700.0 | 0.8 | 1.0 | 1.3 | 1.50 | 1.50 | 0.00 |
| 800.0 | 3.00 | 53.34 | 799.9 | 3.1 | 4.2 | 5.2 | 1.50 | 1.50 | 0.00 |
| 900.0 | 4.50 | 53.34 | 899.7 | 7.0 | 9.4 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,000.0 | 6.00 | 53.34 | 999.3 | 12.5 | 16.8 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,100.0 | 7.50 | 53.34 | 1,098.6 | 19.5 | 26.2 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 9.00 | 53.34 | 1,197.5 | 28.1 | 37.7 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,248.3 | 9.72 | 53.34 | 1,245.2 | 32.8 | 44.0 | 54.9 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 9.72 | 53.34 | 1,296.1 | 38.0 | 51.0 | 63.6 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 9.72 | 53.34 | 1,394.7 | 48.1 | 64.6 | 80.5 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 9.72 | 53.34 | 1,493.3 | 58.2 | 78.1 | 97.4 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 9.72 | 53.34 | 1,591.8 | 68.2 | 91.7 | 114.3 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 9.72 | 53.34 | 1,690.4 | 78.3 | 105.2 | 131.2 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 9.72 | 53.34 | 1,789.0 | 88.4 | 118.8 | 148.1 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 9.72 | 53.34 | 1,887.5 | 98.5 | 132.3 | 165.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 9.72 | 53.34 | 1,986.1 | 108.6 | 145.9 | 181.8 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 9.72 | 53.34 | 2,084.7 | 118.7 | 159.4 | 198.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 9.72 | 53.34 | 2,183.2 | 128.7 | 173.0 | 215.6 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 9.72 | 53.34 | 2,281.8 | 138.8 | 186.5 | 232.5 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 9.72 | 53.34 | 2,380.3 | 148.9 | 200.1 | 249.4 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 9.72 | 53.34 | 2,478.9 | 159.0 | 213.6 | 266.3 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 9.72 | 53.34 | 2,577.5 | 169.1 | 227.2 | 283.2 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 9.72 | 53.34 | 2,676.0 | 179.2 | 240.7 | 300.1 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 9.72 | 53.34 | 2,774.6 | 189.3 | 254.3 | 317.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 9.72 | 53.34 | 2,873.2 | 199.3 | 267.8 | 333.9 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 9.72 | 53.34 | 2,971.7 | 209.4 | 281.4 | 350.7 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 9.72 | 53.34 | 3,070.3 | 219.5 | 294.9 | 367.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 9.72 | 53.34 | 3,168.9 | 229.6 | 308.5 | 384.5 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 9.72 | 53.34 | 3,267.4 | 239.7 | 322.0 | 401.4 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 9.72 | 53.34 | 3,366.0 | 249.8 | 335.6 | 418.3 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 9.72 | 53.34 | 3,464.5 | 259.8 | 349.1 | 435.2 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 9.72 | 53.34 | 3,563.1 | 269.9 | 362.7 | 452.1 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 9.72 | 53.34 | 3,661.7 | 280.0 | 376.2 | 469.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 9.72 | 53.34 | 3,760.2 | 290.1 | 389.8 | 485.9 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 9.72 | 53.34 | 3,858.8 | 300.2 | 403.3 | 502.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 9.72 | 53.34 | 3,957.4 | 310.3 | 416.9 | 519.6 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 9.72 | 53.34 | 4,055.9 | 320.4 | 430.4 | 536.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 9.72 | 53.34 | 4,154.5 | 330.4 | 444.0 | 553.4 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 9.72 | 53.34 | 4,253.0 | 340.5 | 457.5 | 570.3 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 9.72 | 53.34 | 4,351.6 | 350.6 | 471.0 | 587.2 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 9.72 | 53.34 | 4,450.2 | 360.7 | 484.6 | 604.1 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 9.72 | 53.34 | 4,548.7 | 370.8 | 498.1 | 621.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 9.72 | 53.34 | 4,647.3 | 380.9 | 511.7 | 637.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 9.72 | 53.34 | 4,745.9 | 390.9 | 525.2 | 654.8 | 0.00 | 0.00 | 0.00 |
| 4,844.8 | 9.72 | 53.34 | 4,790.0 | 395.5 | 531.3 | 662.3 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 9.72 | 53.34 | 4,844.4 | 401.0 | 538.8 | 671.7 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 9.72 | 53.34 | 4,943.0 | 411.1 | 552.3 | 688.5 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 9.72 | 53.34 | 5,041.6 | 421.2 | 565.9 | 705.4 | 0.00 | 0.00 | 0.00 |



RECEIVED: September 29, 2013

NEWFIELD

# Payzone Directional

## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well X-22-9-15 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | X-22-9-15 @ 6575.0ft (Original Well Elev) |
| **Site:** | SECTION 27 | **North Reference:** | True |
| **Well:** | X-22-9-15 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 9.72 | 53.34 | 5,140.1 | 431.3 | 579.4 | 722.3 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 9.72 | 53.34 | 5,238.7 | 441.4 | 593.0 | 739.2 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 9.72 | 53.34 | 5,337.2 | 451.5 | 606.5 | 756.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 9.72 | 53.34 | 5,435.8 | 461.5 | 620.1 | 773.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 9.72 | 53.34 | 5,534.4 | 471.6 | 633.6 | 789.9 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 9.72 | 53.34 | 5,632.9 | 481.7 | 647.2 | 806.8 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 9.72 | 53.34 | 5,731.5 | 491.8 | 660.7 | 823.7 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 9.72 | 53.34 | 5,830.1 | 501.9 | 674.3 | 840.6 | 0.00 | 0.00 | 0.00 |
| 5,971.0 | 9.72 | 53.34 | 5,900.0 | 509.0 | 683.9 | 852.5 | 0.00 | 0.00 | 0.00 |



RECEIVED: September 29, 2013

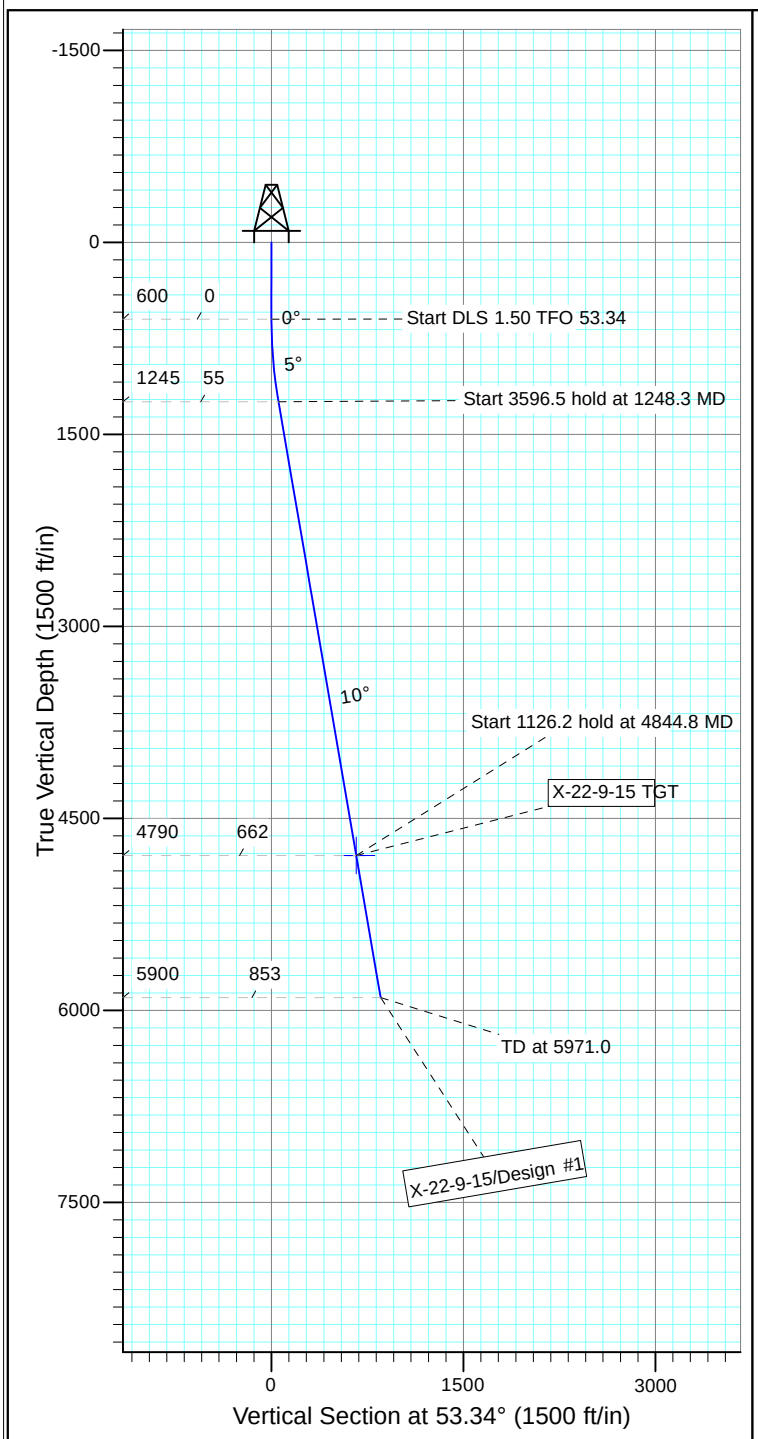
API Well Number: 43013524860000

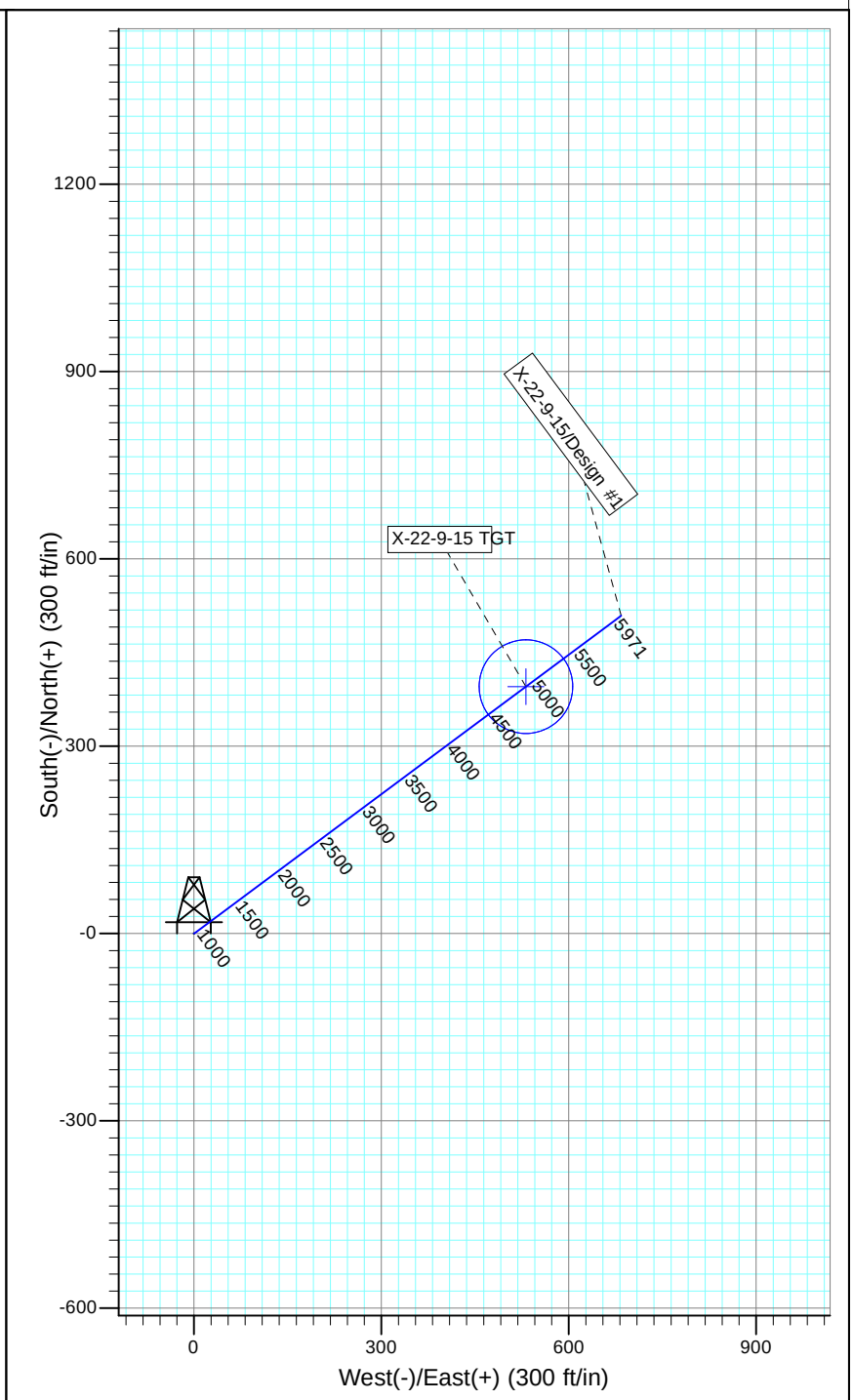
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 27
Well: X-22-9-15
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 52034.7snT
Dip Angle: 65.69°
Date: 4/28/2013
Model: IGRF2010




WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| X-22-9-15 TGT | 4790.0 | 395.5 | 531.3 | 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 | 1248.3 | 9.72 | 53.34 | 1245.2 | 32.8 | 44.0 | 1.50 | 53.34 | 54.9 | |
| 4 | 4844.8 | 9.72 | 53.34 | 4790.0 | 395.5 | 531.3 | 0.00 | 0.00 | 662.3 | X-22-9-15 TGT |
| 5 | 5971.0 | 9.72 | 53.34 | 5900.0 | 509.0 | 683.9 | 0.00 | 0.00 | 852.5 | |

PAYZONE

**NEWFIELD PRODUCTION COMPANY**
**GMBU X-22-9-15**
**AT SURFACE: NW/NW (LOT #1) SECTION 27, T9S R15E**
**DUCHESNE COUNTY, UTAH**

# ONSHORE ORDER NO. 1

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

### *1. EXISTING ROADS*

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU X-22-9-15 located in the NW 1/4 NW 1/4 Section 27, T9S, R15E, 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 southwesterly direction – 15.9 miles ± to it's junction with the beginning of the access road to the existing 4-27-9-15 well location.

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

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

### *2. PLANNED ACCESS ROAD*

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 4-27-9-15 well pad. See attached **Topographic Map "B"**.

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

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

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

### *3. LOCATION OF EXISTING WELLS*

Refer to Exhibit "B".

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

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

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

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

RECEIVED: September 29, 2013

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

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

There will be no water well drilled at this site.

## *6. SOURCE OF CONSTRUCTION MATERIALS*

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

A mineral material application is not required for this location.

## *7. METHODS FOR HANDLING WASTE DISPOSAL*

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

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

A portable toilet will be provided for human waste.

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

## *8. ANCILLARY FACILITIES*

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

RECEIVED: September 29, 2013

***9.*** ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

**Fencing Requirements**

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

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

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

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

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

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

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

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-197 7/26/13, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade E. Miller, 4/7/04. See attached report cover pages, Exhibit “D”.

**Water Disposal**
After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract

RECEIVED: September 29, 2013

trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

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

**Hazardous Material Declaration**
Newfield Production Company guarantees that during the drilling and completion of the GMBU X-22-9-15, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU X-22-9-15, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

13. **LESSEE'S OR OPERATOR'S 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 #X-22-9-15, Section 27, Township 9S, Range 15E: Lease UTU-66185 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

Mandie Crozier

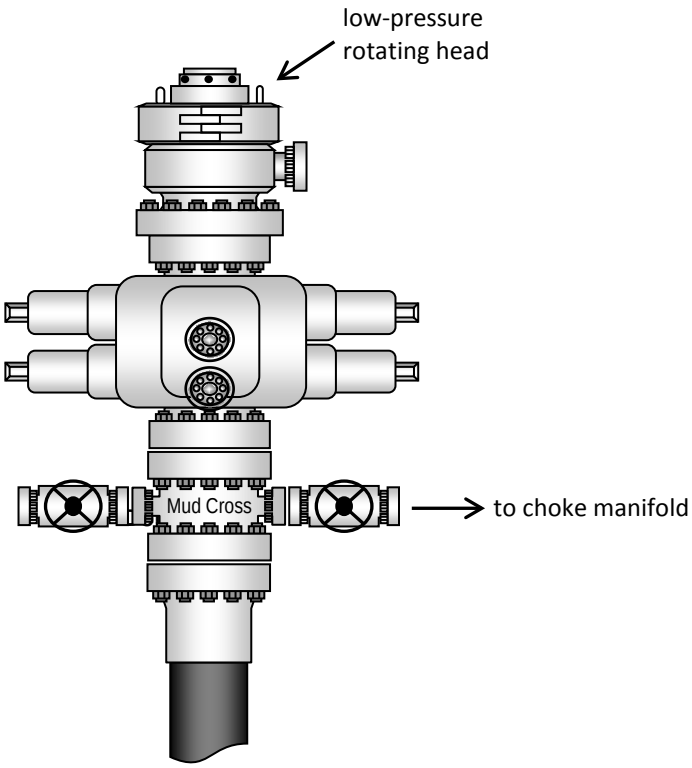
Digitally signed by Mandie Crozier
DN: cn=Mandie Crozier, o=Newfield Production, ou=Regulatory Analyst, email=mcrozier@newfield.com, c=US
Date: 2013.09.29 17:58:53 -06'00'

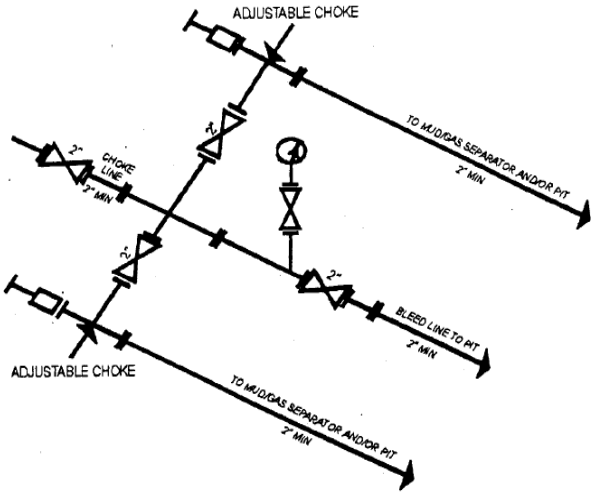
9/27/13
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company

RECEIVED: September 29, 2013

**Typical 2M BOP stack configuration**




2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

RECEIVED: September 29, 2013

API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.

**TOP HOLE FOOTAGES**

G-27-9-15
470' FNL & 551' FWL

X-22-9-15
455' FNL & 565' FWL

**CENTER OF PATTERN FOOTAGES**

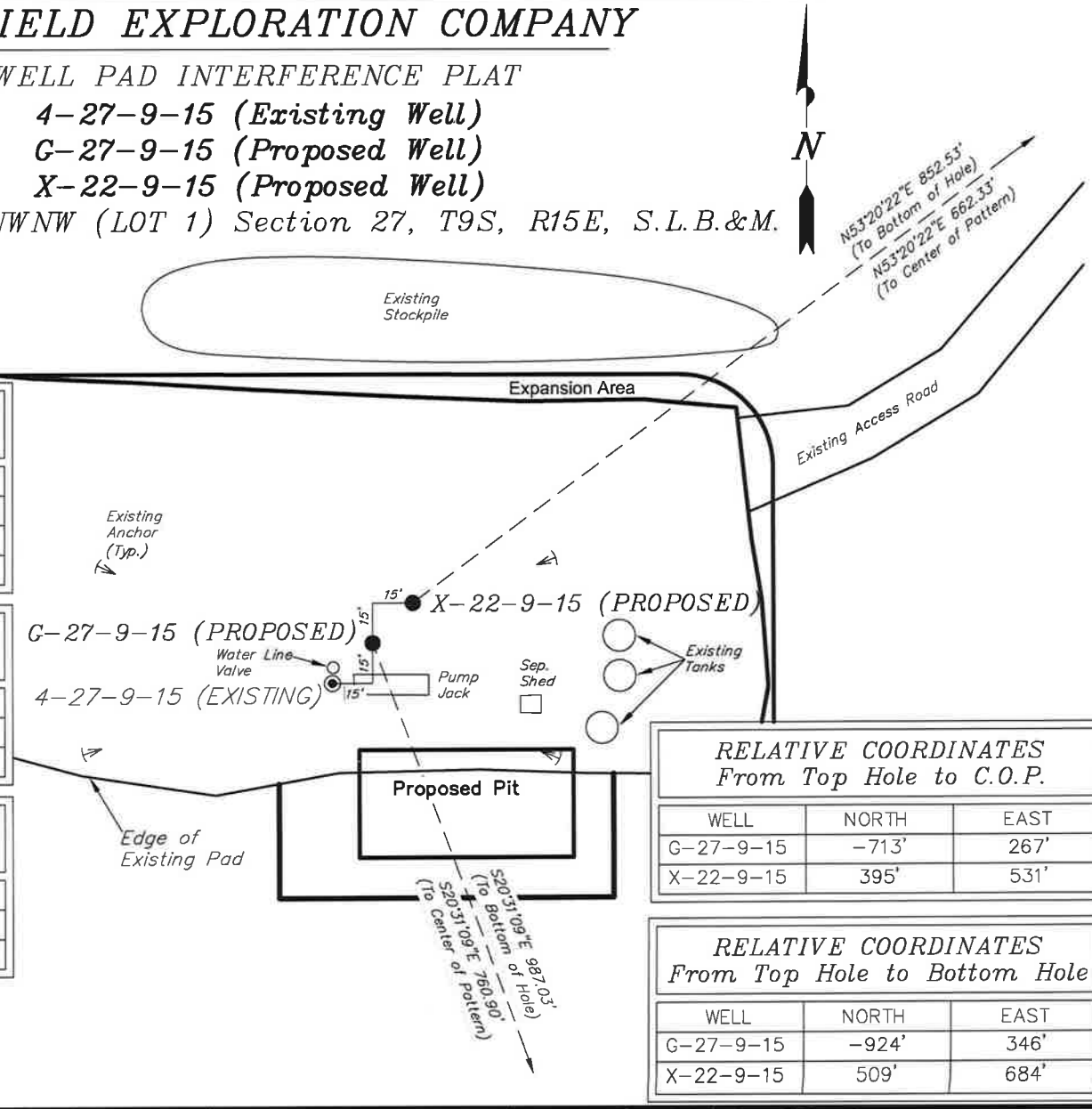
G-27-9-15
1186' FNL & 851' FWL

X-22-9-15
67' FNL & 1077' FWL

**BOTTOM HOLE FOOTAGES**

G-27-9-15
1399' FNL & 940' FWL

X-22-9-15
44' FSL & 1224' FWL




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

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| 4-27-9-15 | 40° 00' 28.12" | 110° 13' 27.32" |
| G-27-9-15 | 40° 00' 28.26" | 110° 13' 27.12" |
| X-22-9-15 | 40° 00' 28.41" | 110° 13' 26.93" |

### LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| G-27-9-15 | 40° 00' 21.19" | 110° 13' 23.83" |
| X-22-9-15 | 40° 00' 32.24" | 110° 13' 20.03" |

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

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| G-27-9-15 | 40° 00' 19.08" | 110° 13' 22.85" |
| X-22-9-15 | 40° 00' 33.34" | 110° 13' 18.05" |

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

| WELL | NORTH | EAST |
|---|---|---|
| G-27-9-15 | -713' | 267' |
| X-22-9-15 | 395' | 531' |

### RELATIVE COORDINATES
From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|---|---|---|
| G-27-9-15 | -924' | 346' |
| X-22-9-15 | 509' | 684' |

| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: L.K. | DATE DRAWN: 05-09-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

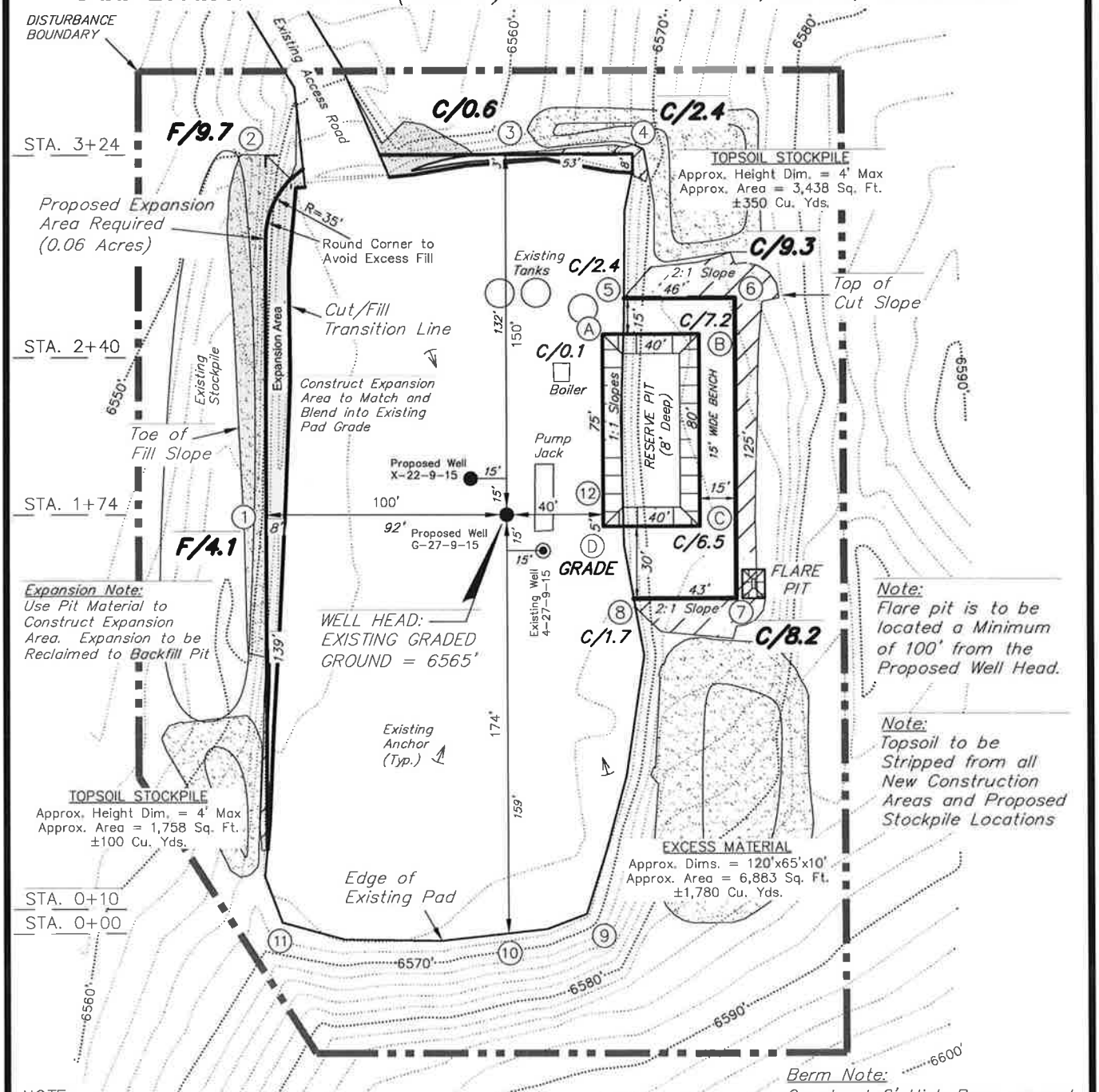
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.




NOTE:
The topsoil & excess material areas are calculated as being mounds containing 2,230 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

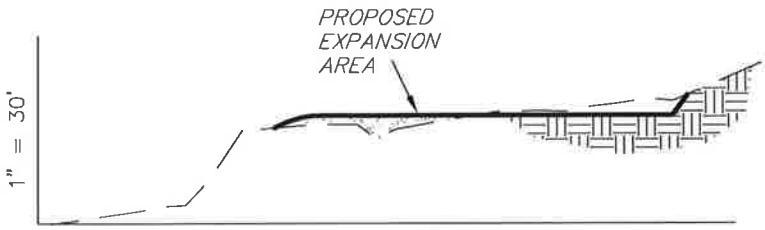
| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | Q.M. | DATE SURVEYED: | 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | 1" = 60' | REVISED: | | | |

# NEWFIELD EXPLORATION COMPANY

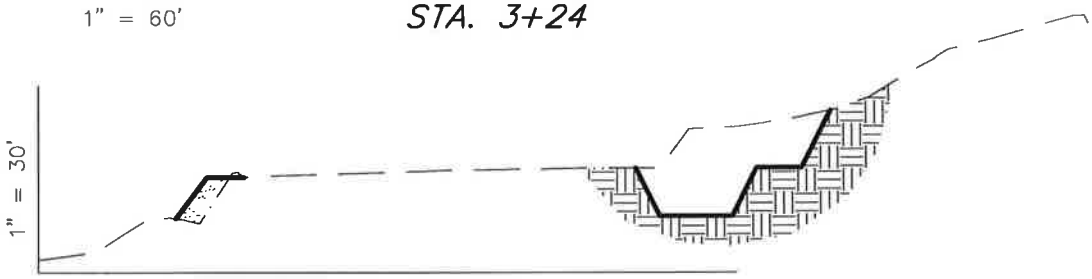
## CROSS SECTIONS

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

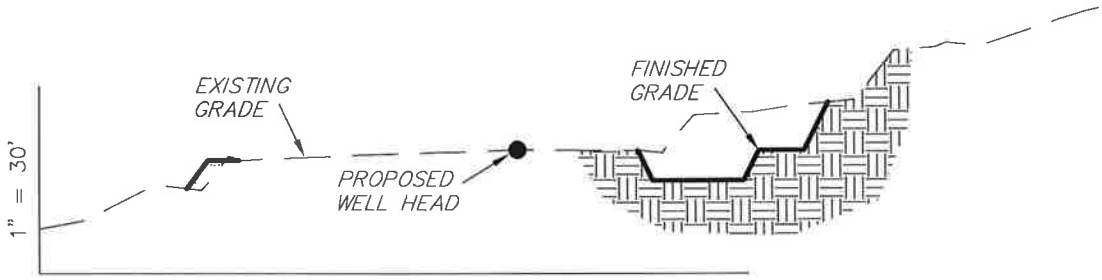
*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*



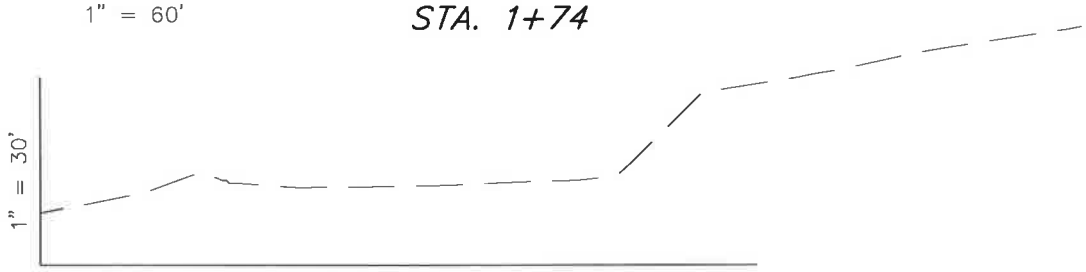

STA. 3+24




STA. 2+40




STA. 1+74




STA. 0+10

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

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|---|---|---|---|---|
| PAD | 1,450 | 520 | Topsoil is not included in Pad Cut | 930 |
| PIT | 690 | 0 | | 690 |
| TOTALS | 2,140 | 520 | 410 | 1,620 |

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

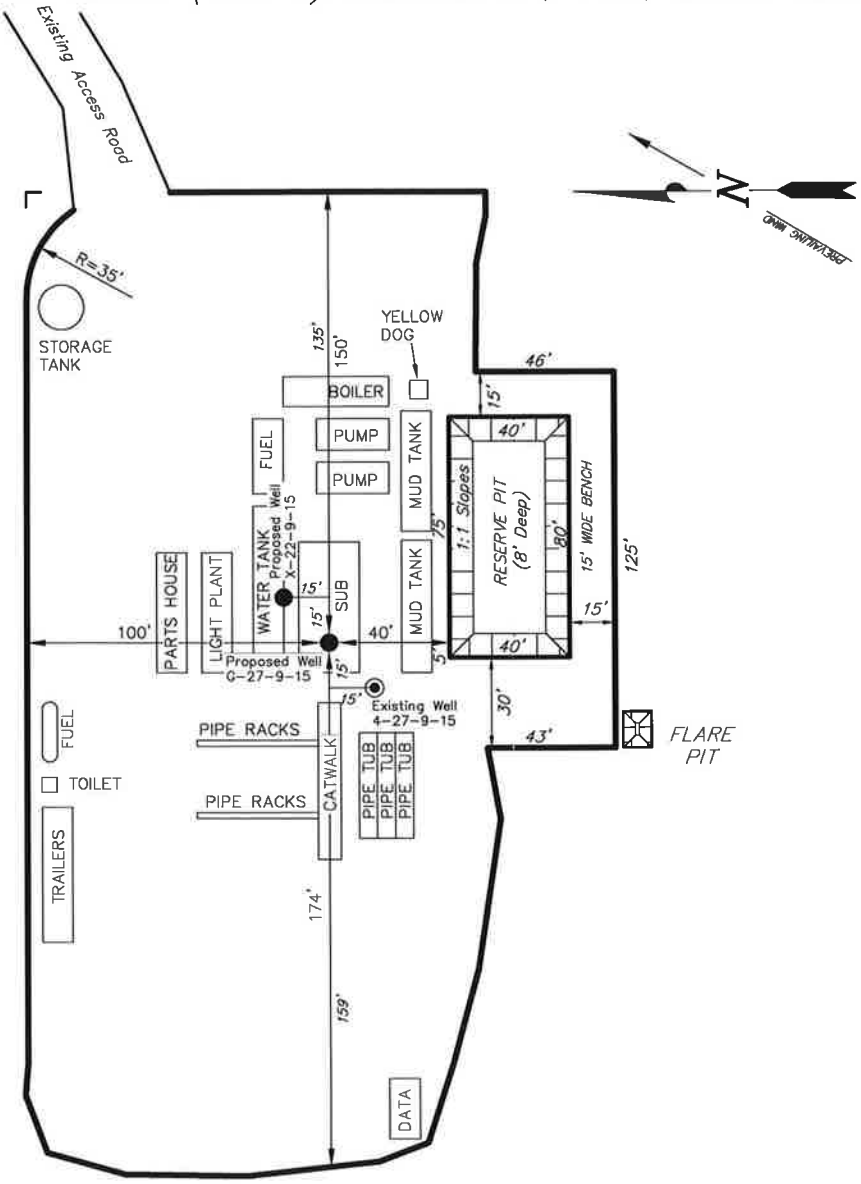
| | | | | |
|---|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. | (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 | |
| SCALE: 1" = 60' | REVISED: | | | |

# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*




| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

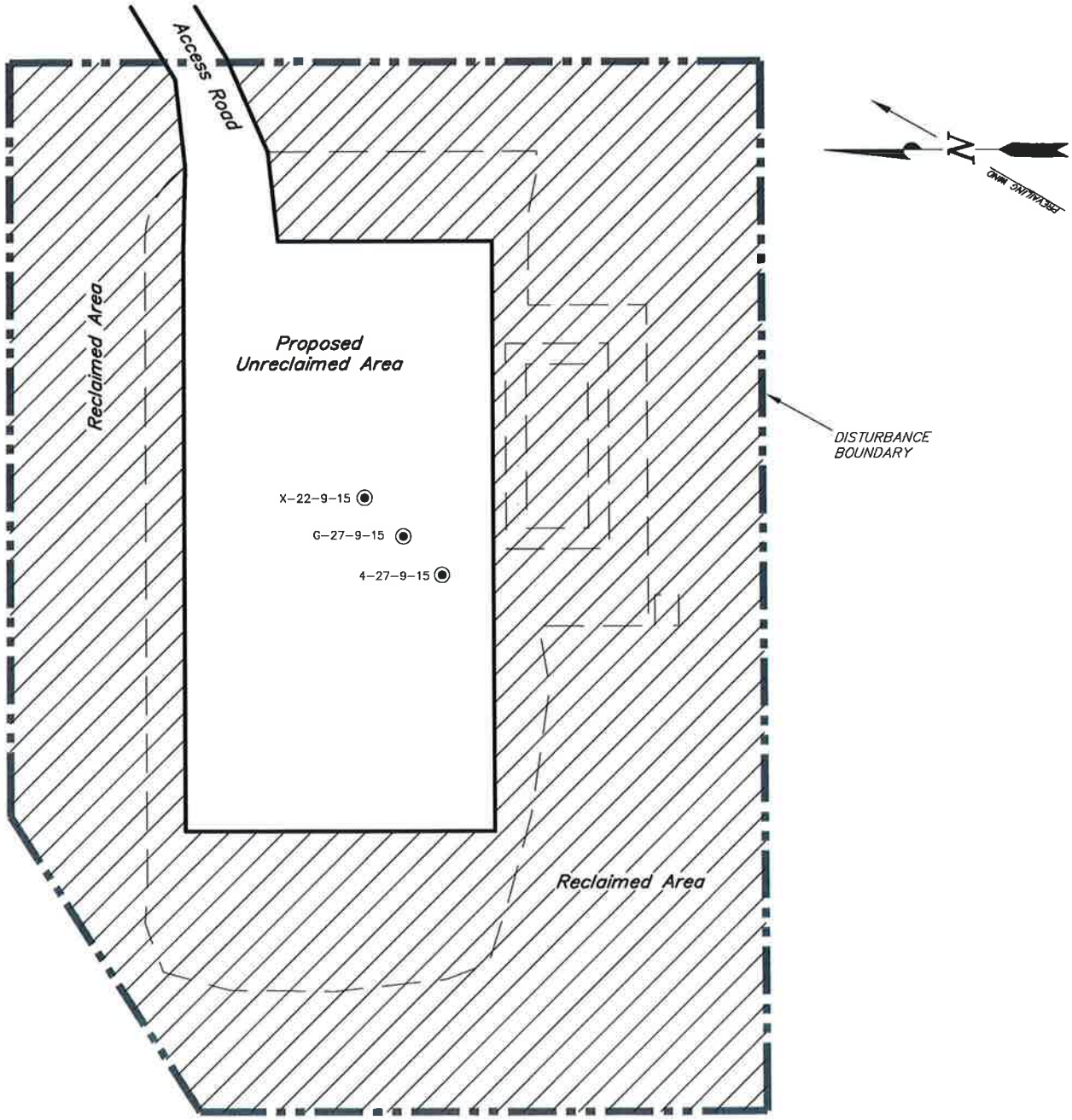
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

**4-27-9-15 (Existing Well)**
**G-27-9-15 (Proposed Well)**
**X-22-9-15 (Proposed Well)**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*




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

**DISTURBED AREA:**

TOTAL DISTURBED AREA = ±2.66 ACRES
TOTAL RECLAIMED AREA = ±1.98 ACRES
UNRECLAIMED AREA = ±0.68 ACRES

| | | | |
|---|---|---|---|
| SURVEYED BY: Q.M. | DATE SURVEYED: 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

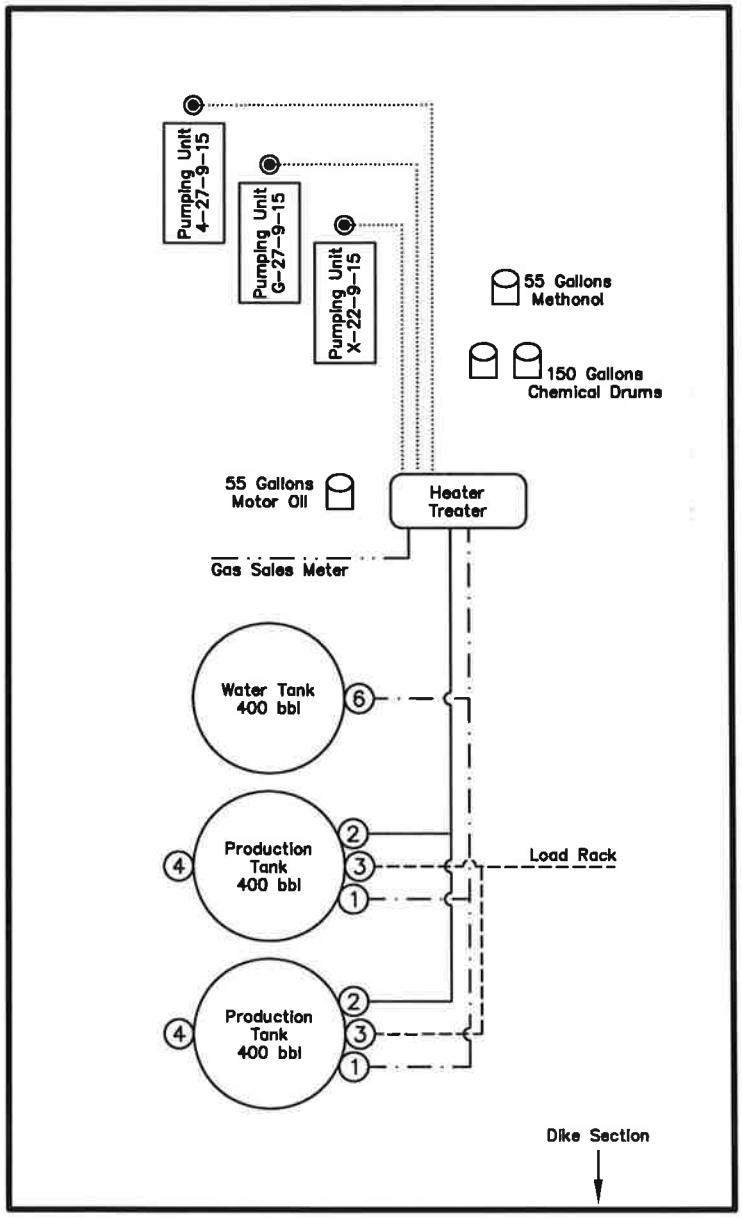
API Well Number: 43013524860000

# NEWFIELD EXPLORATION COMPANY

## PROPOSED SITE FACILITY DIAGRAM

**4-27-9-15 (Existing Well) UTU-66185**
**G-27-9-15 (Proposed Well) UTU-66185**
**X-22-9-15 (Proposed Well) UTU-66185**

*Pad Location: NWNW (LOT 1) Section 27, T9S, R15E, S.L.B.&M.*
*Duchesne County, Utah*



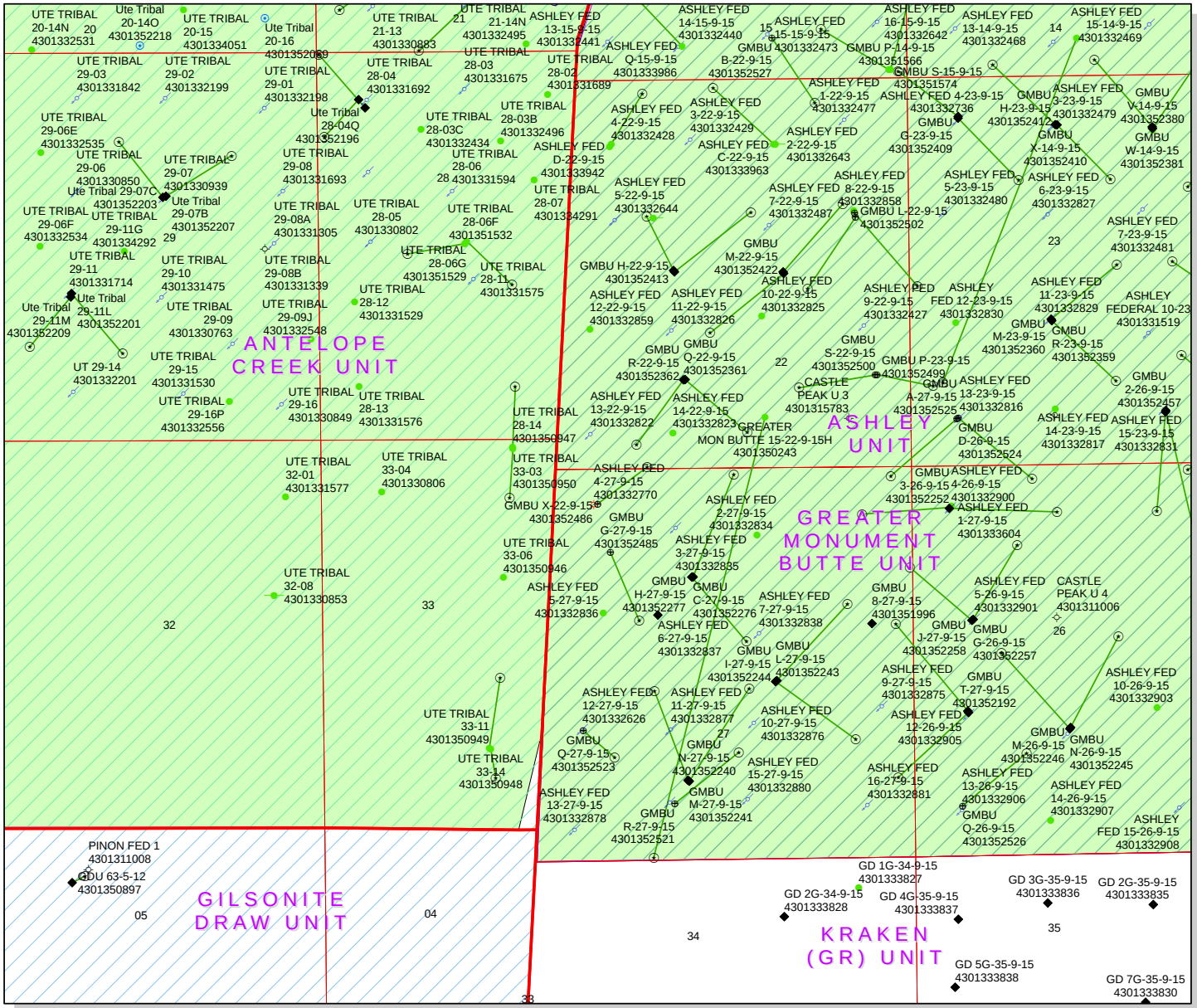

**Legend**

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

NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | Q.M. | DATE SURVEYED: | 02-04-13 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | F.T.M. | DATE DRAWN: | 06-04-13 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | NONE | REVISED: | | | |

API Well Number: 43013524860000




**API Number: 4301352486**

**Well Name: GMBU X-22-9-15**

Township: T09.0S Range: R15.0E Section: 27 Meridian: S

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 10/4/2013
Map Produced by Diana Mason

**Wells Query**

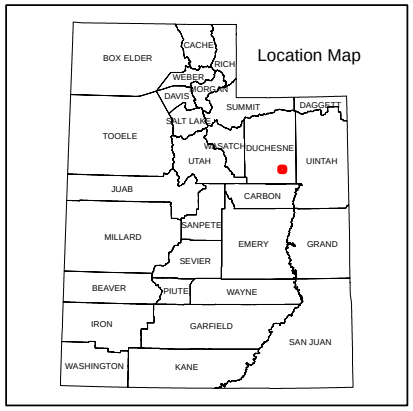
**Status**

- 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

**Units**

**STATUS**

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




1,700 850 0 1,700 Feet

1:16,807

RECEIVED: October 04, 2013

API Well Number: 43013524860000

NEWFIELD

*VIA ELECTRONIC DELIVERY*

October 7, 2013

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

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

RE: Directional Drilling
**GMBU X-22-9-15**
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R15E Section 27: Lot 1 (NWNW) (UTU-66185)
455' FNL 565 FWL

At Target: T9S-R15E Section 22: SESW (UTU-66185)
44' FSL 1224' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 10/1/2013, 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: 43013524860000

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.
UTU66185

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 X-22-9-15

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

2. Name of Operator
NEWFIELD PRODUCTION COMPANY
Contact: MANDIE CROZIER
Email: 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 NWNW Lot 1 455FNL 565FWL

At proposed prod. zone SESW 44FSL 1224FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 27 T9S R15E Mer SLB

14. Distance in miles and direction from nearest town or post office*
17.4 MILES SOUTHWEST 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)
1224'

16. No. of Acres in Lease
2286.40

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.
1515'

19. Proposed Depth
5971 MD
5900 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
6565 GL

22. Approximate date work will start
01/31/2014

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
10/01/2013

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 #221859 verified by the BLM Well Information System**
**For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

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

**Additional Operator Remarks:**

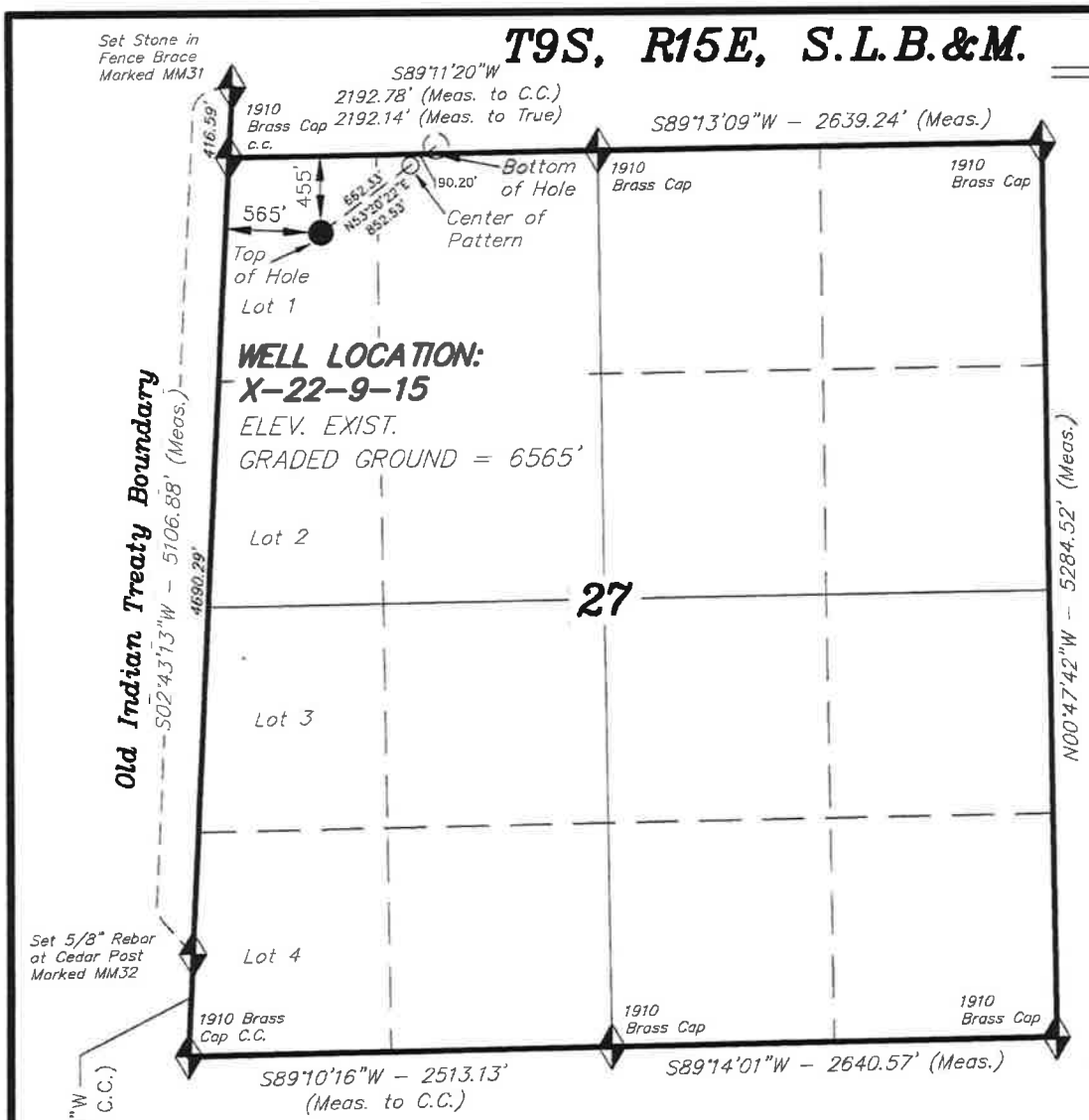
SURFACE LEASE: UTU-66185
BOTTOM HOLE LEASE: UTU-66185

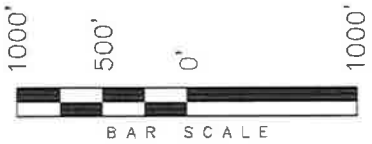
API Well Number: 43013524860000

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

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, X-22-9-15, LOCATED AS SHOWN IN NWNW (LOT 1) OF SECTION 27, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 67' FNL & 1077' FWL.

◆ = 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
STATE OF UTAH

REGISTERED LAND SURVEYOR No. 189377 05-09-13 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'

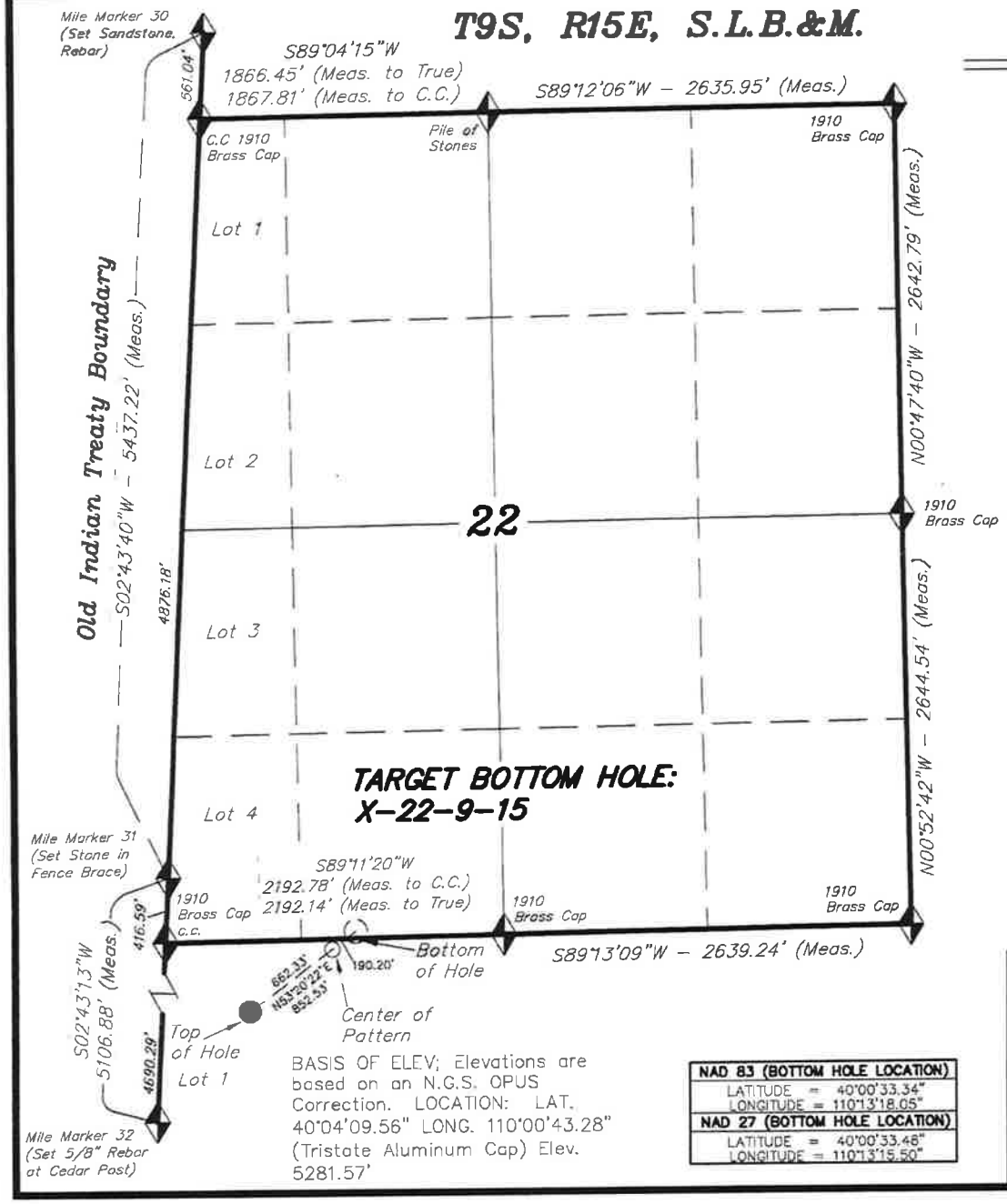
| NAD 83 (CENTER OF PATTERN) | NAD 83 (SURFACE LOCATION) |
|---|---|
| LATITUDE = 40°00'32.24" LONGITUDE = 110°13'20.03" | LATITUDE = 40°00'28.41" LONGITUDE = 110°13'26.93" |
| **NAD 27 (CENTER OF PATTERN)** | **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°00'32.38" LONGITUDE = 110°13'17.48" | LATITUDE = 40°00'28.54" LONGITUDE = 110°13'24.38" |

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000

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




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°00'33.34" |
| LONGITUDE = | 110°13'18.05" |
| **NAD 27 (BOTTOM HOLE LOCATION)** | |
| LATITUDE = | 40°00'33.48" |
| LONGITUDE = | 110°13'15.50" |

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, X-22-9-15, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 22, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'
BAR SCALE

N

**NOTES:**
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 44' FSL & 1224' FWL.

◆ = 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.

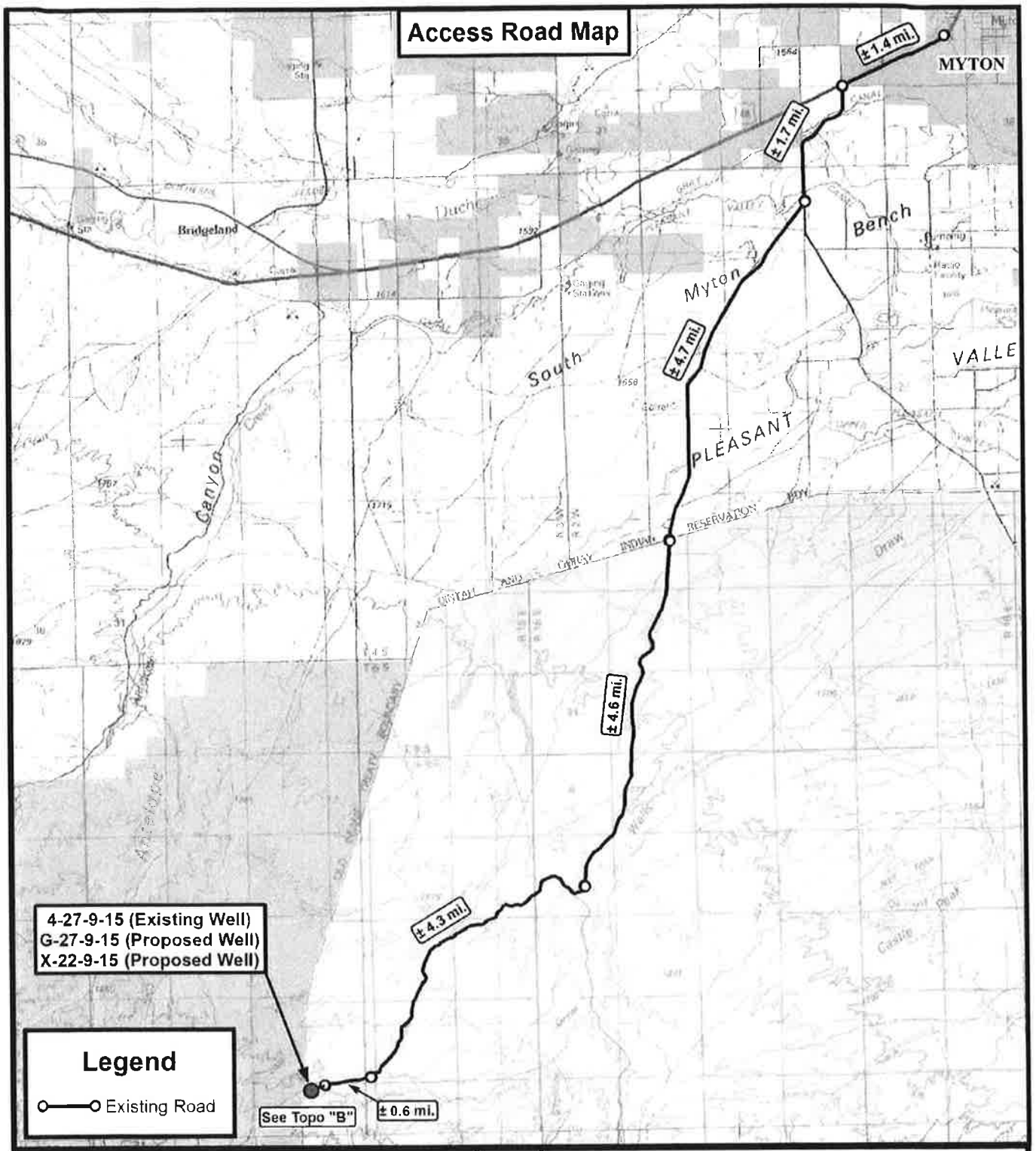
REGISTERED LAND SURVEYOR No. 189377 05-09-13 STACY W. STEWART STATE OF UTAH

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

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

| | | |
|---|---|---|
| DATE SURVEYED: 02-04-13 | SURVEYED BY: Q.M. | VERSION: |
| DATE DRAWN: 05-09-13 | DRAWN BY: L.K. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013524860000



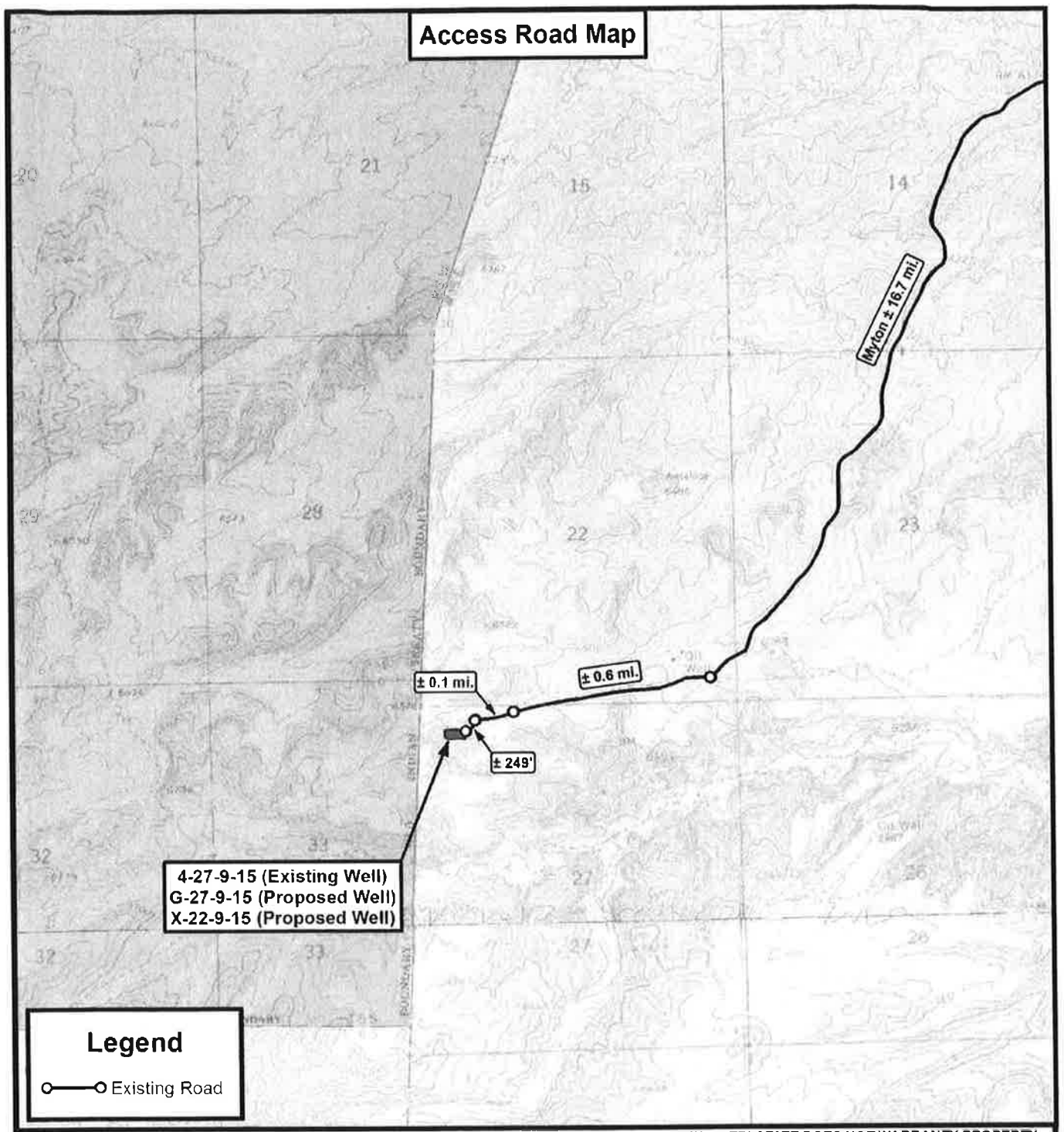

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | TOPOGRAPHIC MAP |
| DATE: 06-04-2013 | | V2 | SHEET A |
| SCALE: 1:100,000 | | | |

API Well Number: 43013524860000




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.
P: (435) 781-2501
F: (435) 781-2518
180 NORTH VERNAL AVE. VERNAL, UTAH 84078


N

**NEWFIELD EXPLORATION COMPANY**

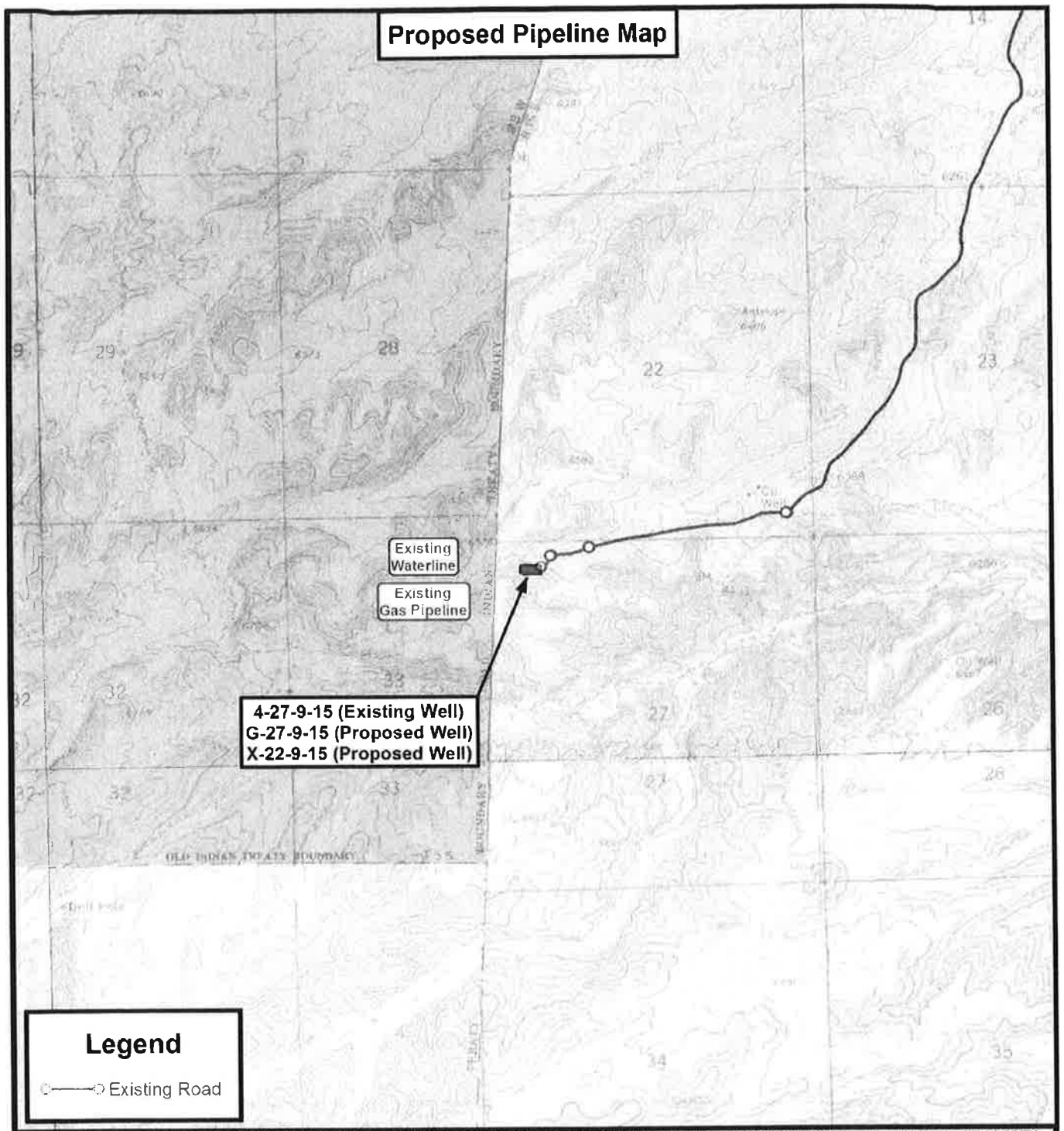
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: A.P.C. | REVISED: | VERSION: | |
| DATE: 06-04-2013 | | V2 | |
| SCALE: 1" = 2,000' | | | |

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013524860000




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.
P: (435) 781-2501
F: (435) 781-2518
180 NORTH VERNAL AVE. VERNAL, UTAH 84078


N

**NEWFIELD EXPLORATION COMPANY**

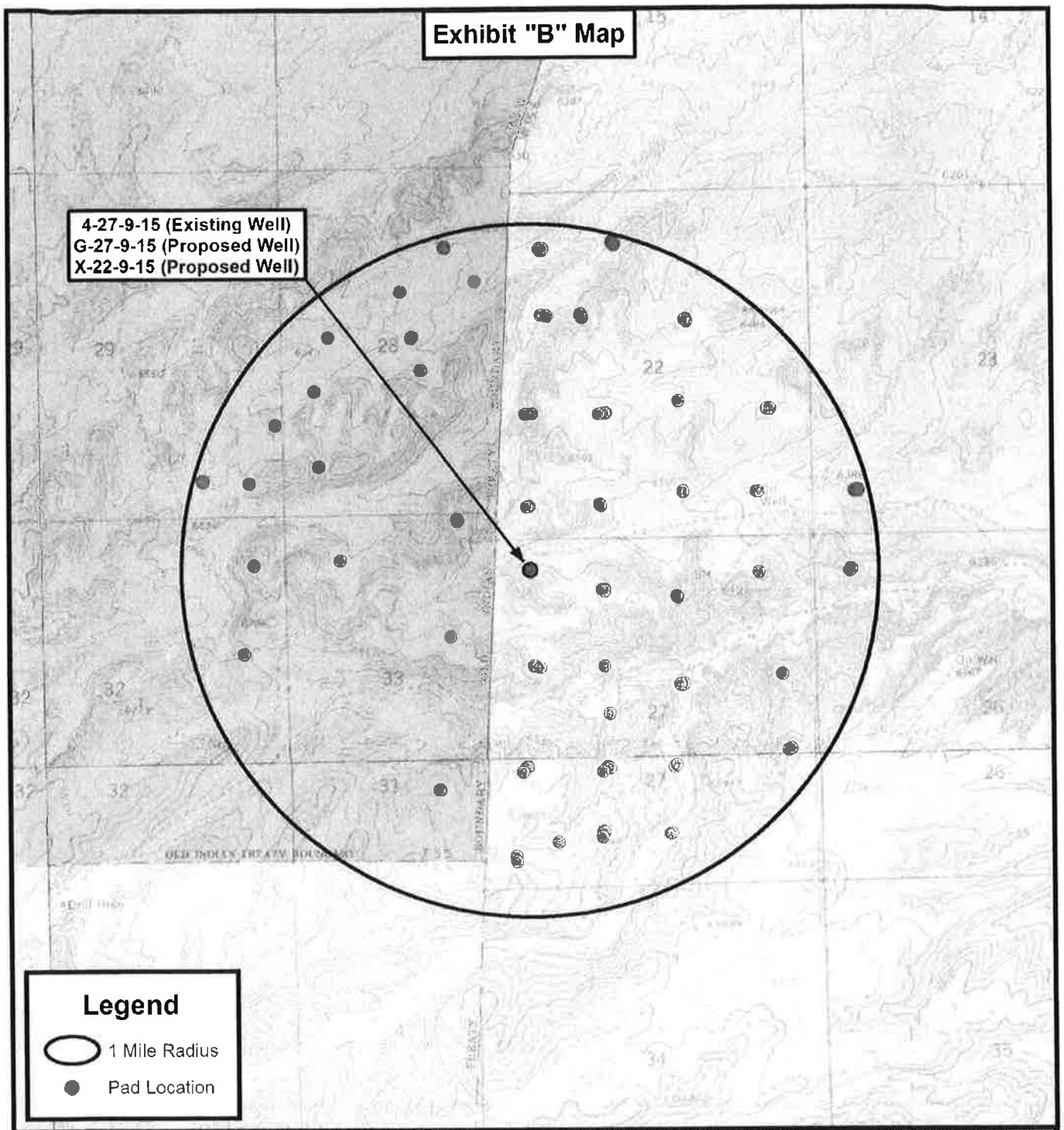
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013524860000




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**
4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
| DATE: | 06-04-2013 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

**TOPOGRAPHIC MAP**

SHEET D

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 83) (DMS) | Longitude (NAD 83) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.12" N | 110° 13' 27.32" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.26" N | 110° 13' 27.12" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.41" N | 110° 13' 26.93" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.19" N | 110° 13' 23.83" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.24" N | 110° 13' 20.03" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.08" N | 110° 13' 22.85" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.34" N | 110° 13' 18.05" W |

| Well Number | Feature Type | Latitude (NAD 83) (DD) | Longitude (NAD 83) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007810 | 110.224255 |
| G-27-9-15 | Surface Hole | 40.007851 | 110.224201 |
| X-22-9-15 | Surface Hole | 40.007892 | 110.224146 |
| G-27-9-15 | Center of Pattern | 40.005885 | 110.223285 |
| X-22-9-15 | Center of Pattern | 40.008956 | 110.222230 |
| G-27-9-15 | Bottom of Hole | 40.005301 | 110.223013 |
| X-22-9-15 | Bottom of Hole | 40.009262 | 110.221680 |

| Well Number | Feature Type | Northing (NAD 83) (UTM Meters) | Longitude (NAD 83) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428912.274 | 566210.161 |
| G-27-9-15 | Surface Hole | 4428916.814 | 566214.760 |
| X-22-9-15 | Surface Hole | 4428921.354 | 566219.359 |
| G-27-9-15 | Center of Pattern | 4428699.288 | 566294.797 |
| X-22-9-15 | Center of Pattern | 4429040.916 | 566381.872 |
| G-27-9-15 | Bottom of Hole | 4428634.642 | 566318.583 |
| X-22-9-15 | Bottom of Hole | 4429075.251 | 566428.541 |

| Well Number | Feature Type | Latitude (NAD 27) (DMS) | Longitude (NAD 27) (DMS) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40° 00' 28.25" N | 110° 13' 24.77" W |
| G-27-9-15 | Surface Hole | 40° 00' 28.40" N | 110° 13' 24.57" W |
| X-22-9-15 | Surface Hole | 40° 00' 28.54" N | 110° 13' 24.38" W |
| G-27-9-15 | Center of Pattern | 40° 00' 21.32" N | 110° 13' 21.28" W |
| X-22-9-15 | Center of Pattern | 40° 00' 32.38" N | 110° 13' 17.48" W |
| G-27-9-15 | Bottom of Hole | 40° 00' 19.22" N | 110° 13' 20.30" W |
| X-22-9-15 | Bottom of Hole | 40° 00' 33.48" N | 110° 13' 15.50" W |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 1

API Well Number: 43013524860000

# Coordinate Report

| Well Number | Feature Type | Latitude (NAD 27) (DD) | Longitude (NAD 27) (DD) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 40.007848 | 110.223547 |
| G-27-9-15 | Surface Hole | 40.007889 | 110.223492 |
| X-22-9-15 | Surface Hole | 40.007929 | 110.223438 |
| G-27-9-15 | Center of Pattern | 40.005923 | 110.222577 |
| X-22-9-15 | Center of Pattern | 40.008993 | 110.221522 |
| G-27-9-15 | Bottom of Hole | 40.005338 | 110.222305 |
| X-22-9-15 | Bottom of Hole | 40.009299 | 110.220972 |

| Well Number | Feature Type | Northing (NAD 27) (UTM Meters) | Longitude (NAD 27) (UTM Meters) |
|---|---|---|---|
| 4-27-9-15 | Surface Hole | 4428706.922 | 566272.341 |
| G-27-9-15 | Surface Hole | 4428711.462 | 566276.939 |
| X-22-9-15 | Surface Hole | 4428716.001 | 566281.538 |
| G-27-9-15 | Center of Pattern | 4428493.935 | 566356.978 |
| X-22-9-15 | Center of Pattern | 4428835.564 | 566444.052 |
| G-27-9-15 | Bottom of Hole | 4428429.289 | 566380.765 |
| X-22-9-15 | Bottom of Hole | 4428869.899 | 566490.722 |


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


**NEWFIELD EXPLORATION COMPANY**

4-27-9-15 (Existing Well)
G-27-9-15 (Proposed Well)
X-22-9-15 (Proposed Well)
Sec. 27, T9S, R15E, S.L.B.&M. Duchesne County, UT.

| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: | |
| DATE: | 06-04-2013 | | |
| VERSION: | V2 | | |

COORDINATE REPORT

SHEET 2

# United States Department of the Interior

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

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

October 21, 2013

Memorandum

To: Assistant Field Office Manager Minerals, Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

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

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

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52485 | GMBU G-27-9-15 | Sec 27 T09S R15E 0470 FNL 0551 FWL |
| | | BHL Sec 27 T09S R15E 1399 FNL 0940 FWL |
| 43-013-52486 | GMBU X-22-9-15 | Sec 27 T09S R15E 0455 FNL 0565 FWL |
| | | BHL Sec 22 T09S R15E 0044 FSL 1224 FWL |
| 43-013-52487 | GMBU H-25-9-15 | Sec 25 T09S R15E 0777 FNL 2061 FWL |
| | | BHL Sec 25 T09S R15E 1357 FNL 2496 FEL |
| 43-013-52488 | GMBU G-25-9-15 | Sec 25 T09S R15E 0756 FNL 2061 FWL |
| | | BHL Sec 25 T09S R15E 1236 FNL 0951 FWL |
| 43-013-52489 | GMBU V-20-8-17 | Sec 29 T08S R17E 0632 FNL 1913 FEL |
| | | BHL Sec 20 T08S R17E 0181 FSL 1173 FEL |
| 43-013-52490 | GMBU H-29-8-17 | Sec 29 T08S R17E 0647 FNL 1897 FEL |
| | | BHL Sec 29 T08S R17E 1541 FNL 2455 FWL |
| 43-013-52491 | GMBU I-28-8-17 | Sec 28 T08S R17E 0874 FNL 2191 FEL |
| | | BHL Sec 28 T08S R17E 1553 FNL 1190 FEL |
| 43-013-52492 | GMBU H-28-8-17 | Sec 28 T08S R17E 0888 FNL 2206 FEL |
| | | BHL Sec 28 T08S R17E 1390 FNL 2563 FWL |
| 43-013-52494 | GMBU P-22-9-16 | Sec 21 T09S R16E 0657 FSL 0813 FEL |
| | | BHL Sec 22 T09S R16E 1797 FSL 0118 FWL |
| 43-013-52499 | GMBU P-23-9-15 | Sec 22 T09S R15E 1910 FSL 0662 FEL |
| | | BHL Sec 23 T09S R15E 1089 FSL 0305 FWL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52500 | GMBU S-22-9-15 | Sec 22 T09S R15E 1906 FSL 0683 FEL |
| | | BHL Sec 22 T09S R15E 1086 FSL 1581 FEL |
| 43-013-52501 | GMBU O-23-9-15 | Sec 22 T09S R15E 1831 FNL 0728 FEL |
| | | BHL Sec 23 T09S R15E 2450 FSL 0110 FWL |
| 43-013-52502 | GMBU L-22-9-15 | Sec 22 T09S R15E 1851 FNL 0734 FEL |
| | | BHL Sec 22 T09S R15E 2488 FSL 1446 FEL |
| 43-013-52503 | GMBU P-1-9-15 | Sec 02 T09S R15E 2003 FSL 0632 FEL |
| | | BHL Sec 01 T09S R15E 1252 FSL 0190 FWL |
| 43-013-52504 | GMBU 126-6-9-17 | Sec 06 T09S R17E 1836 FSL 1794 FEL |
| | | BHL Sec 06 T09S R17E 1000 FSL 2143 FEL |
| 43-013-52505 | GMBU I-20-9-17 | Sec 20 T09S R17E 0581 FNL 0801 FEL |
| | | BHL Sec 20 T09S R17E 1665 FNL 1455 FEL |
| 43-013-52506 | GMBU F-21-9-17 | Sec 20 T09S R17E 0568 FNL 0784 FEL |
| | | BHL Sec 21 T09S R17E 1586 FNL 0263 FWL |
| 43-013-52507 | GMBU D-19-9-17 | Sec 18 T09S R17E 0603 FSL 2008 FWL |
| | | BHL Sec 19 T09S R17E 0179 FNL 1064 FWL |
| 43-013-52508 | GMBU C-19-9-17 | Sec 18 T09S R17E 0610 FSL 2028 FWL |
| | | BHL Sec 19 T09S R17E 0188 FNL 2449 FEL |
| 43-013-52509 | GMBU P-18-9-17 | Sec 13 T09S R16E 0653 FSL 0640 FEL |
| | | BHL Sec 18 T09S R17E 1598 FSL 0129 FWL |
| 43-013-52510 | GMBU D-25-9-16 | Sec 24 T09S R16E 0654 FSL 2279 FWL |
| | | BHL Sec 25 T09S R16E 0099 FNL 1001 FWL |
| 43-013-52512 | GMBU C-25-9-16 | Sec 24 T09S R16E 0635 FSL 2288 FWL |
| | | BHL Sec 25 T09S R16E 0080 FNL 2548 FEL |
| 43-013-52513 | GMBU S-21-9-16 | Sec 21 T09S R16E 2010 FSL 1788 FEL |
| | | BHL Sec 21 T09S R16E 1155 FSL 1240 FEL |
| 43-013-52514 | GMBU L-21-9-16 | Sec 21 T09S R16E 2026 FSL 1774 FEL |
| | | BHL Sec 21 T09S R16E 2433 FNL 1158 FEL |
| 43-013-52515 | GMBU Q-17-9-16 | Sec 17 T09S R16E 0702 FSL 0826 FWL |
| | | BHL Sec 17 T09S R16E 1406 FSL 1459 FWL |
| 43-013-52516 | GMBU R-17-9-16 | Sec 17 T09S R16E 0789 FSL 1950 FEL |
| | | BHL Sec 17 T09S R16E 1550 FSL 2303 FWL |
| 43-013-52517 | GMBU E-19-9-17 | Sec 13 T09S R16E 0633 FSL 0632 FEL |
| | | BHL Sec 19 T09S R17E 0182 FNL 0180 FWL |
| 43-013-52518 | GMBU S-13-9-16 | Sec 13 T09S R16E 0708 FSL 1931 FEL |
| | | BHL Sec 13 T09S R16E 1525 FSL 1236 FEL |
| 43-013-52519 | GMBU B-24-9-16 | Sec 13 T09S R16E 0687 FSL 1927 FEL |
| | | BHL Sec 24 T09S R16E 0120 FNL 1237 FEL |
| 43-013-52520 | GMBU E-28-8-17 | Sec 20 T08S R17E 0197 FSL 0251 FEL |
| | | BHL Sec 28 T08S R17E 0475 FNL 0143 FWL |
| 43-013-52521 | GMBU R-27-9-15 | Sec 27 T09S R15E 0798 FSL 1816 FWL |
| | | BHL Sec 27 T09S R15E 1448 FSL 2496 FEL |
| 43-013-52522 | GMBU P-21-8-17 | Sec 20 T08S R17E 0205 FSL 0231 FEL |
| | | BHL Sec 21 T08S R17E 1570 FSL 0065 FWL |
| 43-013-52523 | GMBU Q-27-9-15 | Sec 27 T09S R15E 1791 FSL 0609 FWL |
| | | BHL Sec 27 T09S R15E 1015 FSL 1409 FWL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52524 | GMBU D-26-9-15 | Sec 23 T09S R15E 0648 FSL 0645 FWL |
| | | BHL Sec 26 T09S R15E 0188 FNL 1636 FWL |
| 43-013-52525 | GMBU A-27-9-15 | Sec 23 T09S R15E 0641 FSL 0625 FWL |
| | | BHL Sec 27 T09S R15E 0146 FNL 0271 FEL |
| 43-013-52526 | GMBU Q-26-9-15 | Sec 26 T09S R15E 0681 FSL 0646 FWL |
| | | BHL Sec 26 T09S R15E 1384 FSL 1518 FWL |
| 43-013-52527 | GMBU B-22-9-15 | Sec 15 T09S R15E 0567 FSL 1868 FEL |
| | | BHL Sec 22 T09S R15E 0303 FNL 1250 FEL |
| 43-013-52528 | GMBU Q-1-9-15 | Sec 01 T09S R15E 2078 FSL 0667 FWL |
| | | BHL Sec 01 T09S R15E 1330 FSL 1416 FWL |
| 43-013-52529 | GMBU C-28-8-17 | Sec 21 T08S R17E 0682 FSL 1993 FWL |
| | | BHL Sec 28 T08S R17E 0134 FNL 2455 FEL |
| 43-013-52530 | GMBU C-20-9-16 | Sec 17 T09S R16E 0770 FSL 1941 FEL |
| | | BHL Sec 20 T09S R16E 0200 FNL 2185 FWL |
| 43-013-52531 | GMBU D-20-9-16 | Sec 17 T09S R16E 0681 FSL 0821 FWL |
| | | BHL Sec 20 T09S R16E 0183 FNL 1441 FWL |
| 43-013-52539 | GMBU C-16-9-17 | Sec 09 T09S R17E 0642 FSL 1988 FWL |
| | | BHL Sec 16 T09S R17E 0166 FNL 2342 FEL |
| 43-013-52540 | GMBU X-1-9-15 | Sec 12 T09S R15E 0661 FNL 2004 FWL |
| | | BHL Sec 01 T09S R15E 0447 FSL 0992 FWL |
| 43-013-52543 | GMBU U-21-9-16 | Sec 21 T09S R16E 0638 FSL 0820 FEL |
| | | BHL Sec 21 T09S R16E 0084 FSL 0131 FEL |
| 43-013-52569 | GMBU V-27-8-17 | Sec 34 T08S R17E 0516 FNL 0714 FEL |
| | | BHL Sec 27 T08S R17E 0127 FSL 1481 FEL |
| 43-013-52570 | GMBU B-28-8-17 | Sec 21 T08S R17E 0617 FSL 0464 FEL |
| | | BHL Sec 28 T08S R17E 0152 FNL 1476 FEL |
| 43-013-52571 | GMBU Y-26-8-17 | Sec 34 T08S R17E 0492 FNL 0714 FEL |
| | | BHL Sec 26 T08S R17E 0118 FSL 0171 FWL |
| 43-013-52572 | GMBU C-34-8-17 | Sec 27 T08S R17E 0544 FSL 1734 FEL |
| | | BHL Sec 34 T08S R17E 0141 FNL 2341 FWL |
| 43-013-52573 | GMBU J-26-9-15 | Sec 25 T09S R15E 2080 FNL 0536 FWL |
| | | BHL Sec 26 T09S R15E 0988 FNL 0126 FEL |
| 43-013-52574 | GMBU N-25-9-15 | Sec 25 T09S R15E 2080 FNL 0557 FWL |
| | | BHL Sec 25 T09S R15E 2409 FSL 1553 FWL |
| 43-013-52575 | GMBU S-27-9-15 | Sec 27 T09S R15E 0639 FSL 0670 FEL |
| | | BHL Sec 27 T09S R15E 1438 FSL 1663 FEL |
| 43-013-52578 | GMBU J-16-9-17 | Sec 15 T09S R17E 2051 FNL 0763 FWL |
| | | BHL Sec 16 T09S R17E 1141 FNL 0047 FEL |
| 43-013-52579 | GMBU J-22-9-15 | Sec 23 T09S R15E 1834 FNL 0529 FWL |
| | | BHL Sec 22 T09S R15E 0993 FNL 0235 FEL |
| 43-013-52580 | GMBU N-23-9-15 | Sec 23 T09S R15E 1833 FNL 0550 FWL |
| | | BHL Sec 23 T09S R15E 2457 FSL 1365 FWL |
| 43-013-52581 | GMBU J-12-9-15 | Sec 07 T09S R16E 1992 FNL 0706 FWL |
| | | BHL Sec 12 T09S R15E 1030 FNL 0144 FEL |
| 43-013-52582 | GMBU L-20-9-17 | Sec 20 T09S R17E 2025 FNL 0636 FEL |
| | | BHL Sec 20 T09S R17E 2539 FSL 1389 FEL |

RECEIVED: October 22, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| 43-013-52583 | GMBU F-22-9-16 | Sec 21 T09S R16E 1788 FNL 0767 FEL |
| | | BHL Sec 22 T09S R16E 1160 FNL 0221 FWL |
| 43-013-52584 | GMBU G-22-9-16 | Sec 22 T09S R16E 2299 FNL 2079 FWL |
| | | BHL Sec 22 T09S R16E 1261 FNL 1283 FWL |
| 43-013-52585 | GMBU N-22-9-16 | Sec 22 T09S R16E 2318 FNL 2070 FWL |
| | | BHL Sec 22 T09S R16E 2499 FSL 0960 FWL |
| 43-013-52586 | GMBU O-22-9-16 | Sec 21 T09S R16E 1809 FNL 0769 FEL |
| | | BHL Sec 22 T09S R16E 2496 FSL 0103 FWL |
| 43-047-54059 | GMBU C-26-8-17 | Sec 23 T08S R17E 0234 FSL 2047 FWL |
| | | BHL Sec 26 T08S R17E 0111 FNL 2544 FEL |

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

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2013.10.21 14:14:44 -06'00'

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

MCoulthard:mc:10-21-13

RECEIVED: October 22, 2013

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 9/29/2013
**API NO. ASSIGNED:** 43013524860000
**WELL NAME:** GMBU X-22-9-15
**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)
**PHONE NUMBER:** 435 646-4825
**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** NWNW 27 090S 150E
**Permit Tech Review:** ✔

**SURFACE:** 0455 FNL 0565 FWL
**Engineering Review:** ☐

**BOTTOM:** 0044 FSL 1224 FWL
**Geology Review:** ✔

**COUNTY:** DUCHESNE
**LATITUDE:** 40.00970
**LONGITUDE:** -110.22403
**UTM SURF EASTINGS:** 566229.00
**NORTHINGS:** 4428912.00
**FIELD NAME:** MONUMENT BUTTE
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU-66185
**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

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

**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
15 - Directional - dmason
27 - Other - bhill

RECEIVED: October 22, 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 X-22-9-15
**API Well Number:** 43013524860000
**Lease Number:** UTU-66185
**Surface Owner:** FEDERAL
**Approval Date:** 10/22/2013

**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:**
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).

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.

**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

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-66185

## 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 X-22-9-15

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

**9. API NUMBER:** 43013524860000

**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:** 0455 FNL 0565 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 15.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ✓ NOTICE OF INTENT — Approximate date work will start: 10/22/2014
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

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

Approved by the
October 27, 2014
Oil, Gas and Mining

Date:

By:

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

| SIGNATURE | DATE |
|---|---|
| N/A | 10/15/2014 |

RECEIVED: Oct. 15, 2014

## The Utah Division of Oil, Gas, and Mining

**- State of Utah**
**- Department of Natural Resources**

**Electronic Permitting System - Sundry Notices**

## Request for Permit Extension Validation Well Number 43013524860000

**API:** 43013524860000
**Well Name:** GMBU X-22-9-15
**Location:** 0455 FNL 0565 FWL QTR NWNW SEC 27 TWNP 090S RNG 150E MER S
**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY
**Date Original Permit Issued:** 10/22/2013

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

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

**Signature:** Mandie Crozier **Date:** 10/15/2014
**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Oct. 15, 2014

RECEIVED

OCT 2 4 2013

BLM

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No.
UTU66185

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

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 X-22-9-15

2. Name of Operator
NEWFIELD PRODUCTION COMPANY
Contact: MANDIE CROZIER
Email: mcrozier@newfield.com

9. API Well No.
43-013-52486

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 NWNW Lot 1 455FNL 565FWL

At proposed prod. zone SESW 44FSL 1224FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 27 T9S R15E Mer SLB

RECEIVED
APR 0 2 2015
DIV. OF OIL, GAS & MINING

14. Distance in miles and direction from nearest town or post office*
17.4 MILES SOUTHWEST 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)
1224'

16. No. of Acres in Lease
2286.40

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.
1515'

19. Proposed Depth
5971 MD
5900 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
6565 GL

22. Approximate date work will start
01/31/2014

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
10/01/2013

Title
REGULATORY ANALYST

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
MAR 3 0 2015

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

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 #221859 verified by the BLM Well Information System**
**For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**
**Committed to AFMSS for processing by LESLIE BUHLER on 10/28/2013 ()**

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

13LCB1925AE

NOS 9/18/13

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:** | **Lot 1, Sec. 27, T9S R15E** |
| **Well No:** | **GMBU X-22-9-15** | **Lease No:** | **UTU-66185** |
| **API No:** | **43-013-52486** | **Agreement:** | **Greater Monument Butte** |

# OFFICE NUMBER: (435) 781-4400

# OFFICE FAX NUMBER: (435) 781-3420

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

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

## NOTIFICATION REQUIREMENTS

| | | |
|---|---|---|
| Location Construction<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)***

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

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

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

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

**Site Specific COAs:**

**Minerals and Paleontology**

- 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 UTG000-2014-004 on May 21, 2014.

**CONDITIONS OF APPROVAL**

**Wildlife**

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

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.

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

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

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

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.

- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval 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
  318 N Vernal Ave.
  Vernal, UT 84078
  (435) 781-9453

**<u>Air Quality</u>**

- All internal combustion equipment will be kept in good working order.

- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.

- Open burning of garbage or refuse will not occur at well sites or other facilities.

- Drill rigs will be equipped with Tier II or better diesel engines.

- Low bleed pneumatics will be installed on separator dump valves and other controllers.

- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.

- Telemetry will be installed to remotely monitor and control production.

- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m)

from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour $NO_2$ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas–fired drill rigs, installation of $NO_X$ controls, time/use restrictions, and/or drill rig spacing.

- 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.

- 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.

- Green completions will be used for all well completion activities where technically feasible.

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

**SITE SPECIFIC DOWNHOLE COAs:**

GMBU X-22-9-15

Well specific down-hole COA's:

- If applicable, Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008).
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.

Robin L Hansen
Petroleum Engineer
Venal Field Office

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

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

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

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

- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

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

**OPERATING REQUIREMENT REMINDERS:**

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

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

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- 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.

FORM 9

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-66185

## 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 X-22-9-15

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

**9. API NUMBER:** 43013524860000

**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:** 0455 FNL 0565 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 15.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ✓ NOTICE OF INTENT — Approximate date work will start: 10/22/2015
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

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

Approved by the
October 26, 2015
Oil, Gas and Mining

Date:

By:

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

| SIGNATURE | DATE |
|---|---|
| N/A | 10/15/2015 |

RECEIVED: Oct. 15, 2015

## The Utah Division of Oil, Gas, and Mining

**- State of Utah**
**- Department of Natural Resources**

**Electronic Permitting System - Sundry Notices**

## Request for Permit Extension Validation Well Number 43013524860000

**API:** 43013524860000
**Well Name:** GMBU X-22-9-15
**Location:** 0455 FNL 0565 FWL QTR NWNW SEC 27 TWNP 090S RNG 150E MER S
**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY
**Date Original Permit Issued:** 10/22/2013

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

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

**Signature:** Mandie Crozier **Date:** 10/15/2015
**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Oct. 15, 2015

FORM 9

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-66185

## 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 X-22-9-15

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

**9. API NUMBER:** 43013524860000

**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:** 0455 FNL 0565 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 15.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT<br>Approximate date work will start:<br>10/22/2016 | ☐ 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: |

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

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

Approved by the Utah Division of Oil, Gas and Mining
Date: September 22, 2016
By:

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Mandie Crozier | 435 646-4825 | Regulatory Tech |
| **SIGNATURE** N/A | | **DATE** 9/20/2016 |

RECEIVED: Sep. 20, 2016

## The Utah Division of Oil, Gas, and Mining

**- State of Utah**
**- Department of Natural Resources**

**Electronic Permitting System - Sundry Notices**

## Request for Permit Extension Validation Well Number 43013524860000

**API:** 43013524860000
**Well Name:** GMBU X-22-9-15
**Location:** 0455 FNL 0565 FWL QTR NWNW SEC 27 TWNP 090S RNG 150E MER S
**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY
**Date Original Permit Issued:** 10/22/2013

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

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

**Signature:** Mandie Crozier **Date:** 9/20/2016
**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Sep. 20, 2016