

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

FORM 3

AMENDED REPORT

| <b>APPLICATION FOR PERMIT TO DRILL</b>   |           |                  |   |   |  | 1. WELL NAME and NUMBER<br>Ute Tribal 01-14-E4   |                              |          |       |        |
|--|-----------|------------------|---|---|--|--|------------------------------|----------|-------|--------|
| 2. TYPE OF WORK<br>DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> |           |                  |   |   |  | 3. FIELD OR WILDCAT<br>BRUNDAGE CANYON   |                              |          |       |        |
| 4. TYPE OF WELL<br>Oil Well Coalbed Methane Well: NO   |           |                  |   |   |  | 5. UNIT or COMMUNITIZATION AGREEMENT NAME  |                              |          |       |        |
| 6. NAME OF OPERATOR<br>PETROGLYPH OPERATING CO   |           |                  |   |   |  | 7. OPERATOR PHONE<br>208 685-7685  |                              |          |       |        |
| 8. ADDRESS OF OPERATOR<br>960 Broadway Avenue, Ste 500, Bosie, ID, 83703   |           |                  |   |   |  | 9. OPERATOR E-MAIL<br>ppowell@pgei.com   |                              |          |       |        |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)<br>14-20-H62-4743   |           |                  | 11. MINERAL OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>    |   |  | 12. SURFACE OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |                              |          |       |        |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee')<br>Petroglyph Operating Co., Inc.  |           |                  |   |   |  | 14. SURFACE OWNER PHONE (if box 12 = 'fee')<br>435-722-2531  |                              |          |       |        |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')<br>P.O. Box 607, ,  |           |                  |   |   |  | 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<br>YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> |   |  | 19. SLANT<br>VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>                               |                              |          |       |        |
| 20. LOCATION OF WELL   |           | FOOTAGES         |   | QTR-QTR   | SECTION  | TOWNSHIP   | RANGE                        | MERIDIAN |       |        |
| LOCATION AT SURFACE  |           | 615 FSL 1690 FWL |   | SESW  | 1  | 5.0 S  | 4.0 W                        | U        |       |        |
| Top of Uppermost Producing Zone  |           | 660 FSL 1980 FWL |   | SESW  | 1  | 5.0 S  | 4.0 W                        | U        |       |        |
| At Total Depth   |           | 660 FSL 1980 FWL |   | SESW  | 1  | 5.0 S  | 4.0 W                        | U        |       |        |
| 21. COUNTY<br>DUCHESNE   |           |                  | 22. DISTANCE TO NEAREST LEASE LINE (Feet)<br>615  |   |  | 23. NUMBER OF ACRES IN DRILLING UNIT<br>707  |                              |          |       |        |
| 27. ELEVATION - GROUND LEVEL<br>6025   |           |                  | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)<br>1764   |   |  | 26. PROPOSED DEPTH<br>MD: 6139 TVD: 6124   |                              |          |       |        |
| 28. BOND NUMBER<br>LPM4138153  |           |                  | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE<br>43-8342  |   |  |  |                              |          |       |        |
| <b>Hole, Casing, and Cement Information</b>  |           |                  |   |   |  |  |                              |          |       |        |
| String   | Hole Size | Casing Size      | Length  | Weight  | Grade & Thread   | Max Mud Wt.  | Cement                       | Sacks    | Yield | Weight |
| Cond   | 20        | 14               | 0 - 54  | 5.0   | Unknown  | 10.0   | Class G                      | 25       | 1.17  | 15.8   |
| Surf   | 12.25     | 8.625            | 0 - 494   | 24.0  | K-55 ST&C  | 10.0   | Class G                      | 227      | 1.17  | 15.8   |
| Prod   | 7.875     | 5.5              | 0 - 6139  | 15.5  | J-55 LT&C  | 10.0   | Class G                      | 462      | 1.92  | 12.5   |
|  |           |                  |   |   |  |  | Class G                      | 340      | 1.46  | 13.4   |
| <b>ATTACHMENTS</b>   |           |                  |   |   |  |  |                              |          |       |        |
| <b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>  |           |                  |   |   |  |  |                              |          |       |        |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER   |           |                  |   |   | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                 |  |                              |          |       |        |
| <input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)   |           |                  |   |   | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |  |                              |          |       |        |
| <input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  |           |                  |   |   | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP                      |  |                              |          |       |        |
| NAME Ed Trotter  |           |                  |   | TITLE Agent   |  |  | PHONE 435 789-4120           |          |       |        |
| SIGNATURE  |           |                  |   | DATE 10/30/2012   |  |  | EMAIL edtrotter@easilink.com |          |       |        |
| API NUMBER ASSIGNED<br>43013518200000  |           |                  |   | APPROVAL<br><br><br>Permit Manager |  |  |                              |          |       |        |

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

| Formation                  |                             | Subsea | TVD  | MD   |
|----------------------------|-----------------------------|--------|------|------|
| Rig KB~14' above GGL       |                             | 6039   | 0    | 0    |
| Surface Formation = Uinta  |                             |        |      |      |
| Uinta                      |                             | 6025   | 14   | 14   |
| Green River                |                             | 4755   | 1284 | 1287 |
| Trona                      |                             | 3410   | 2629 | 2639 |
| Mahogany Shale             |                             | 3260   | 2779 | 2790 |
| "B" Marker                 | Waterflood<br>Unit Interval | 2120   | 3919 | 3934 |
| "X" Marker                 |                             | 1625   | 4414 | 4429 |
| Douglas Creek Marker       |                             | 1480   | 4559 | 4574 |
| "B" Limestone              |                             | 1080   | 4959 | 4974 |
| Base Castle Peak Limestone |                             | 545    | 5494 | 5509 |
| BSCARB                     |                             | 140    | 5899 | 5914 |
| Wasatch                    |                             | -125   | NDE  | NDE  |
| Rig TD                     |                             | -85    | 6124 | 6139 |

**2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:**

| Substance                               | Formation     | Subsea | TVD  | MD   |
|---|---------------|--------|------|------|
| Base of moderately saline ground water* | Uinta         | 5950   | 89   | 89   |
| Oil/Gas                                 | Douglas Creek | 1480   | 4559 | 4574 |
| Oil/Gas                                 | Castle Peak   | 545    | 5494 | 5509 |

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

|                         |                     |                     |                    |
|-------------------------|---------------------|---------------------|--------------------|
| Flow rate (or blowtest) | Temperature         | pH                  | TDS                |
| Dissolved Iron          | Dissolved Magnesium | Dissolved Bicarb.   | Dissolved Sulfate  |
| Dissolved Calcium       | Dissolved Sodium    | Dissolved Carbonate | Dissolved Chloride |

All depths through the "Base of moderately saline ground water"\* , along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

\*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**3. PROPOSED CASING PROGRAM:**

| String     | Hole    | Casing | Top - MD | Bottom - MD | Weight lb/ft | Grade  | Thread |
|------------|---------|--------|----------|-------------|--------------|--------|--------|
| Conductor  | 20"     | 14"    | surface  | 54'         | steel        | Cond'r | none   |
| Surface    | 12-1/4" | 8-5/8" | surface  | 494'        | 24           | J-55   | STC    |
| Production | 7-7/8"  | 5-1/2" | surface  | 6139'       | 15.5         | J-55   | LTC    |

| String     | Hole    | Casing | Collapse  | Burst     | Tensile    |
|------------|---------|--------|-----------|-----------|------------|
| Surface    | 12-1/4" | 8-5/8" | 1,370 psi | 2,950 psi | 244,000 lb |
| Production | 7-7/8"  | 5-1/2" | 4,040 psi | 4,810 psi | 248,000 lb |

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3934' MD.

**4. PROPOSED CEMENTING PROGRAM:**

| String          | Top          | Cement Description  | Sacks                                 | Excess | Weight (ppg) | Yield (ft <sup>3</sup> /sk) |
|-----------------|--------------|---|---------------------------------------|--------|--------------|-----------------------------|
|                 | Bottom       |   | Vol (ft <sup>3</sup> )                |        |              |                             |
| Conductor       | 0<br>54      | Construction Grade Cement   | Sufficient volumes to grout Conductor |        |              |                             |
| Surface         | 0<br>494     | Class G +2% CaCl <sub>2</sub><br>+0.25 lb/sk Cello Flake                                    | 227<br>265                            | 30%    | 15.8         | 1.17                        |
| Production Lead | 0<br>3934    | EXPANDACEM (Class G +additives)<br>+ 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM) | 462<br>886                            | 30%    | 12.5         | 1.92                        |
| Production Tail | 3934<br>6139 | EXPANDACEM (Class G +additives)<br>+ 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM) | 340<br>497                            | 30%    | 13.4         | 1.46                        |

- The 8-5/8" surface casing shall 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.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2639' MD.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:**

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

**BOPE TESTING PROCEDURE:**

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

**6. MUD PROGRAM:**

**A. SURFACE HOLE**

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 494' to 6139'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- 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. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

**C. HAZARDOUS MATERIALS AND POLLUTANTS**

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**7. EVALUATION PROGRAM:**

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)  
 Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

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

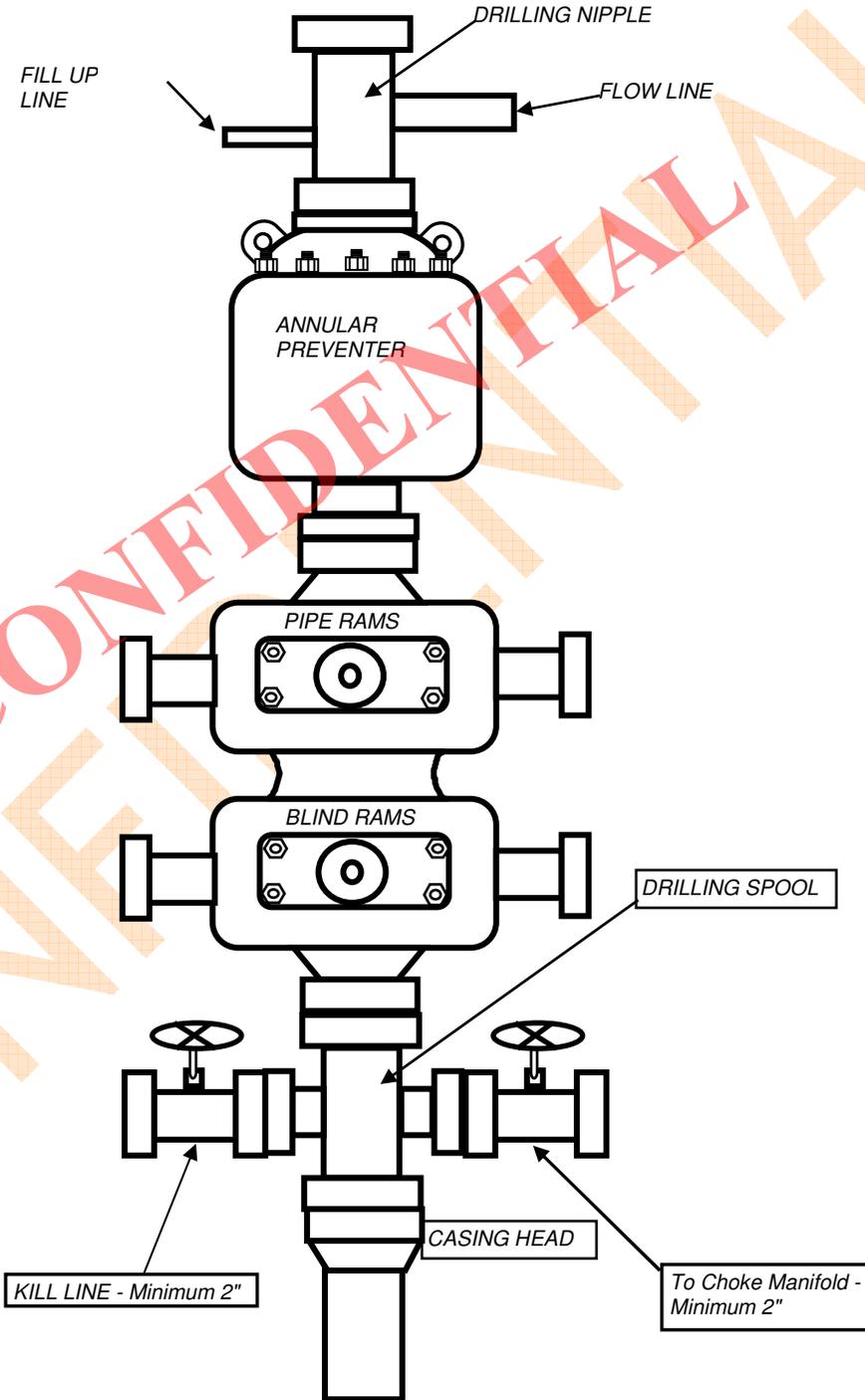
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1535 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

**9. DIRECTIONAL WELL PLAN:**

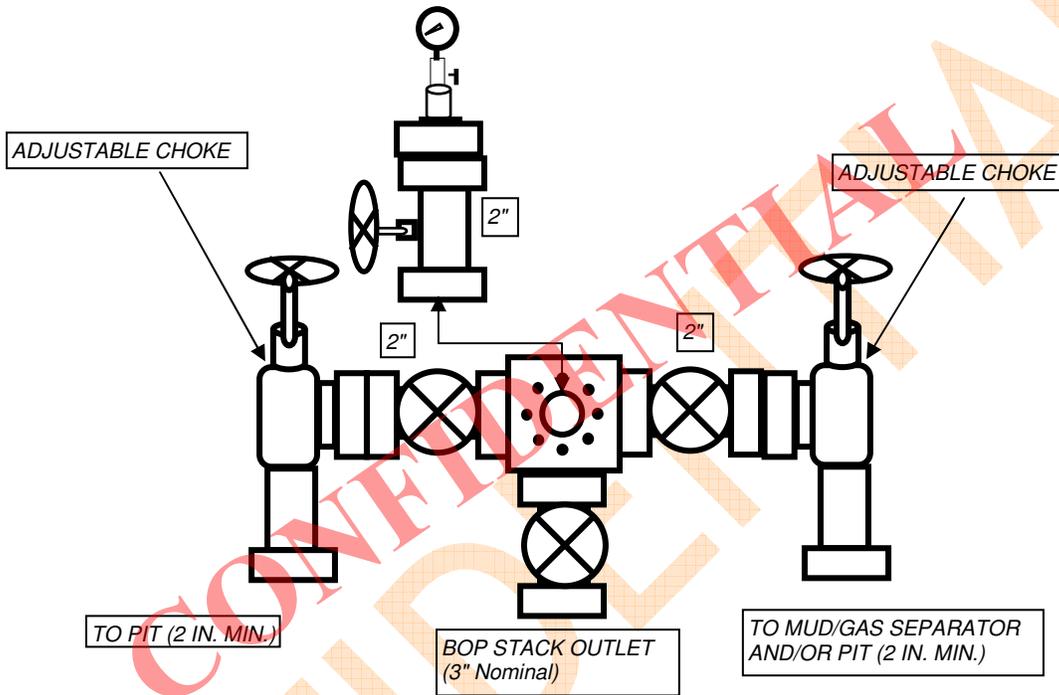
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3934' to 5914', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

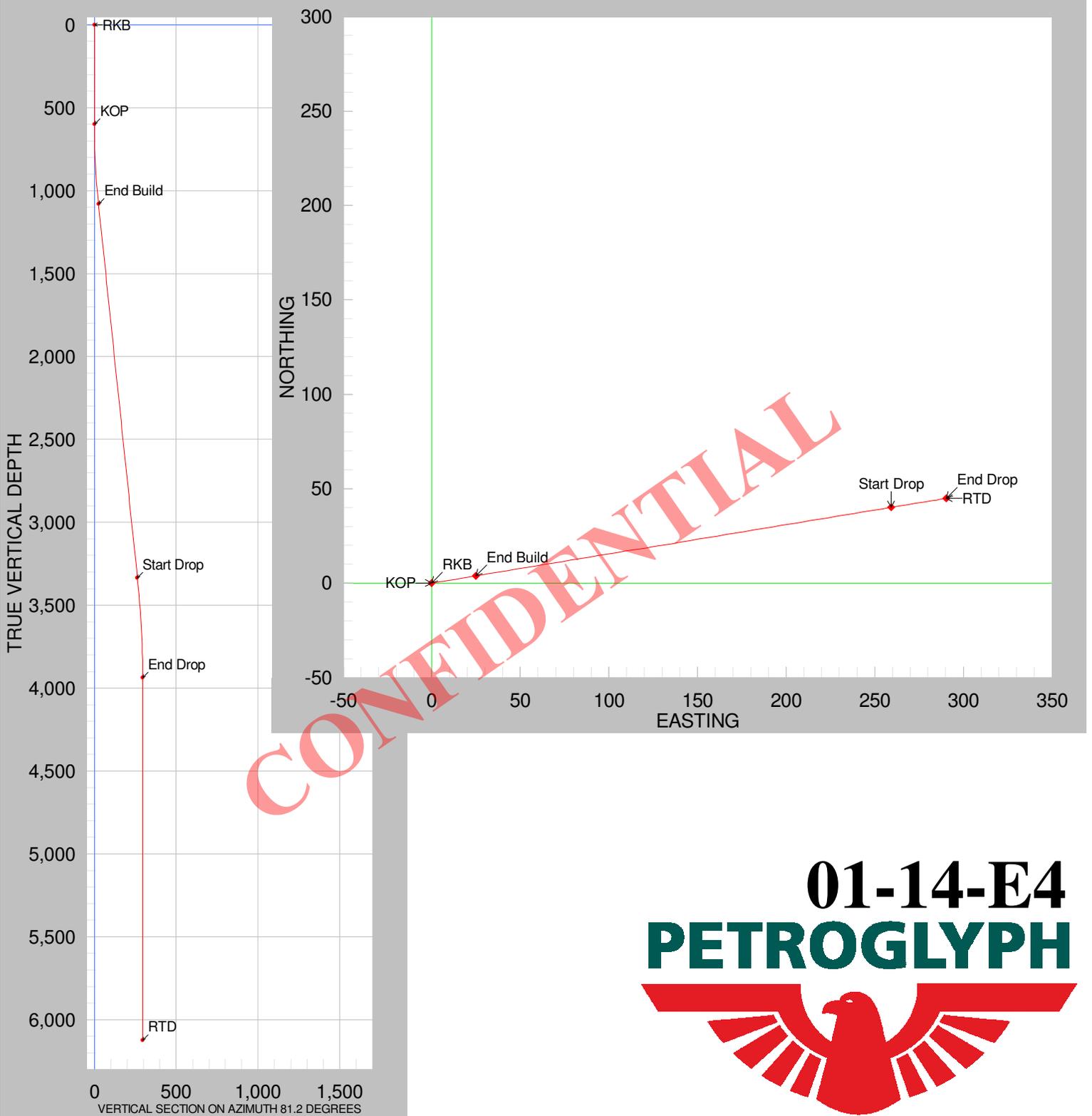
***CONFIDENTIAL***  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-14-E4**  
**SE SW, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**  
**TYPICAL 2,000 p.s.i. CHOKE MANIFOLD**





| # | Reference  | Type      | MD      | Inc  | Azi   | TVD     | N     | E      | DLS  | Vert S |
|---|------------|-----------|---------|------|-------|---------|-------|--------|------|--------|
| 0 | RKB        | Tie Point | 0.00    | 0.00 | 0.00  | 0.00    | 0.00  | 0.00   |      | 0.00   |
| 1 | KOP        | Vertical  | 600.00  | 0.00 | 0.00  | 600.00  | 0.00  | 0.00   | 0.00 | 0.00   |
| 2 | End Build  | Build     | 1080.00 | 6.00 | 81.20 | 1079.12 | 3.84  | 24.81  | 1.25 | 25.11  |
| 3 | Start Drop | Tangent   | 3350.00 | 6.00 | 81.20 | 3336.69 | 40.14 | 259.30 | 0.00 | 262.39 |
| 4 | End Drop   | Drop      | 3950.00 | 0.00 | 0.00  | 3935.59 | 44.94 | 290.32 | 1.00 | 293.78 |
| 5 | RTD        | Vertical  | 6139.00 | 0.00 | 0.00  | 6124.59 | 44.94 | 290.32 | 0.00 | 293.78 |

### 01-14-E4, Plan 1

|                            |                            |  |
|----------------------------|----------------------------|--|
| <b>Operator</b> Petroglyph | <b>Units</b> feet, %/100ft | 12:02 Tuesday, October 02, 2012 Page 1 of 4        |
| <b>Field</b>               | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 81.2               |
| <b>Well Name</b> 01-14-E4  | <b>State</b> UT            | <b>Survey Calculation Method</b> Minimum Curvature |
| <b>Plan</b> 1              | <b>Country</b> USA         | <b>Database</b> Access                             |

|   |                  |                     |
|---|------------------|---------------------|
| <b>Location</b> 615' FSL 1690' FWL 01-5s-4w | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>                                 | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>                            | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b>                          | <b>Z Datum</b>   |                     |
| <b>Project</b>                              | <b>Surface Z</b> | <b>Ground Level</b> |

**DIRECTIONAL WELL PLAN**

| MD*                             | INC* | AZI* | TVD*    | N*    | E*    | DLS*    | V. S.* | MapE* | MapN* | SysTVD* |
|---------------------------------|------|------|---------|-------|-------|---------|--------|-------|-------|---------|
| ft                              | deg  | deg  | ft      | ft    | ft    | %/100ft | ft     | ft    | ft    | ft      |
| *** RKB (at MD = 0.00)          |      |      |         |       |       |         |        |       |       |         |
| 0.00                            | 0.00 | 0.0  | 0.00    | 0.00  | 0.00  |         | 0.00   |       |       |         |
| 50.00                           | 0.00 | 0.0  | 50.00   | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 100.00                          | 0.00 | 0.0  | 100.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 150.00                          | 0.00 | 0.0  | 150.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 200.00                          | 0.00 | 0.0  | 200.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 250.00                          | 0.00 | 0.0  | 250.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 300.00                          | 0.00 | 0.0  | 300.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 350.00                          | 0.00 | 0.0  | 350.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 400.00                          | 0.00 | 0.0  | 400.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 450.00                          | 0.00 | 0.0  | 450.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 500.00                          | 0.00 | 0.0  | 500.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 550.00                          | 0.00 | 0.0  | 550.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| *** KOP (at MD = 600.00)        |      |      |         |       |       |         |        |       |       |         |
| 600.00                          | 0.00 | 0.0  | 600.00  | 0.00  | 0.00  | 0.00    | 0.00   |       |       |         |
| 650.00                          | 0.63 | 81.2 | 650.00  | 0.04  | 0.27  | 1.25    | 0.27   |       |       |         |
| 700.00                          | 1.25 | 81.2 | 699.99  | 0.17  | 1.08  | 1.25    | 1.09   |       |       |         |
| 750.00                          | 1.88 | 81.2 | 749.97  | 0.38  | 2.43  | 1.25    | 2.45   |       |       |         |
| 800.00                          | 2.50 | 81.2 | 799.94  | 0.67  | 4.31  | 1.25    | 4.36   |       |       |         |
| 850.00                          | 3.13 | 81.2 | 849.88  | 1.04  | 6.74  | 1.25    | 6.82   |       |       |         |
| 900.00                          | 3.75 | 81.2 | 899.79  | 1.50  | 9.70  | 1.25    | 9.81   |       |       |         |
| 950.00                          | 4.38 | 81.2 | 949.66  | 2.04  | 13.20 | 1.25    | 13.36  |       |       |         |
| 1000.00                         | 5.00 | 81.2 | 999.49  | 2.67  | 17.24 | 1.25    | 17.44  |       |       |         |
| 1050.00                         | 5.63 | 81.2 | 1049.28 | 3.38  | 21.81 | 1.25    | 22.07  |       |       |         |
| *** END BUILD (at MD = 1080.00) |      |      |         |       |       |         |        |       |       |         |
| 1080.00                         | 6.00 | 81.2 | 1079.12 | 3.84  | 24.81 | 1.25    | 25.11  |       |       |         |
| 1100.00                         | 6.00 | 81.2 | 1099.01 | 4.16  | 26.88 | 0.00    | 27.20  |       |       |         |
| 1150.00                         | 6.00 | 81.2 | 1148.74 | 4.96  | 32.05 | 0.00    | 32.43  |       |       |         |
| 1200.00                         | 6.00 | 81.2 | 1198.47 | 5.76  | 37.21 | 0.00    | 37.65  |       |       |         |
| 1250.00                         | 6.00 | 81.2 | 1248.19 | 6.56  | 42.37 | 0.00    | 42.88  |       |       |         |
| 1300.00                         | 6.00 | 81.2 | 1297.92 | 7.36  | 47.54 | 0.00    | 48.11  |       |       |         |
| 1350.00                         | 6.00 | 81.2 | 1347.64 | 8.16  | 52.70 | 0.00    | 53.33  |       |       |         |
| 1400.00                         | 6.00 | 81.2 | 1397.37 | 8.96  | 57.87 | 0.00    | 58.56  |       |       |         |
| 1450.00                         | 6.00 | 81.2 | 1447.10 | 9.76  | 63.03 | 0.00    | 63.79  |       |       |         |
| 1500.00                         | 6.00 | 81.2 | 1496.82 | 10.56 | 68.20 | 0.00    | 69.01  |       |       |         |
| 1550.00                         | 6.00 | 81.2 | 1546.55 | 11.36 | 73.36 | 0.00    | 74.24  |       |       |         |

### 01-14-E4, Plan 1

|                            |                            |  |
|----------------------------|----------------------------|--|
| <b>Operator</b> Petroglyph | <b>Units</b> feet, %/100ft | 12:02 Tuesday, October 02, 2012 Page 2 of 4        |
| <b>Field</b>               | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 81.2               |
| <b>Well Name</b> 01-14-E4  | <b>State</b> UT            | <b>Survey Calculation Method</b> Minimum Curvature |
| <b>Plan</b> 1              | <b>Country</b> USA         | <b>Database</b> Access                             |

|   |                  |                     |
|---|------------------|---------------------|
| <b>Location</b> 615' FSL 1690' FWL 01-5s-4w | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>                                 | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>                            | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b>                          | <b>Z Datum</b>   |                     |
| <b>Project</b>                              | <b>Surface Z</b> | <b>Ground Level</b> |

**DIRECTIONAL WELL PLAN**

| MD*     | INC* | AZI* | TVD*    | N*    | E*     | DLS*    | V. S.* | MapE* | MapN* | SysTVD* |
|---------|------|------|---------|-------|--------|---------|--------|-------|-------|---------|
| ft      | deg  | deg  | ft      | ft    | ft     | %/100ft | ft     | ft    | ft    | ft      |
| 1600.00 | 6.00 | 81.2 | 1596.27 | 12.16 | 78.53  | 0.00    | 79.46  |       |       |         |
| 1650.00 | 6.00 | 81.2 | 1646.00 | 12.96 | 83.69  | 0.00    | 84.69  |       |       |         |
| 1700.00 | 6.00 | 81.2 | 1695.73 | 13.76 | 88.86  | 0.00    | 89.92  |       |       |         |
| 1750.00 | 6.00 | 81.2 | 1745.45 | 14.56 | 94.02  | 0.00    | 95.14  |       |       |         |
| 1800.00 | 6.00 | 81.2 | 1795.18 | 15.36 | 99.19  | 0.00    | 100.37 |       |       |         |
| 1850.00 | 6.00 | 81.2 | 1844.91 | 16.15 | 104.35 | 0.00    | 105.60 |       |       |         |
| 1900.00 | 6.00 | 81.2 | 1894.63 | 16.95 | 109.52 | 0.00    | 110.82 |       |       |         |
| 1950.00 | 6.00 | 81.2 | 1944.36 | 17.75 | 114.68 | 0.00    | 116.05 |       |       |         |
| 2000.00 | 6.00 | 81.2 | 1994.08 | 18.55 | 119.85 | 0.00    | 121.28 |       |       |         |
| 2050.00 | 6.00 | 81.2 | 2043.81 | 19.35 | 125.01 | 0.00    | 126.50 |       |       |         |
| 2100.00 | 6.00 | 81.2 | 2093.54 | 20.15 | 130.18 | 0.00    | 131.73 |       |       |         |
| 2150.00 | 6.00 | 81.2 | 2143.26 | 20.95 | 135.34 | 0.00    | 136.96 |       |       |         |
| 2200.00 | 6.00 | 81.2 | 2192.99 | 21.75 | 140.51 | 0.00    | 142.18 |       |       |         |
| 2250.00 | 6.00 | 81.2 | 2242.71 | 22.55 | 145.67 | 0.00    | 147.41 |       |       |         |
| 2300.00 | 6.00 | 81.2 | 2292.44 | 23.35 | 150.84 | 0.00    | 152.63 |       |       |         |
| 2350.00 | 6.00 | 81.2 | 2342.17 | 24.15 | 156.00 | 0.00    | 157.86 |       |       |         |
| 2400.00 | 6.00 | 81.2 | 2391.89 | 24.95 | 161.17 | 0.00    | 163.09 |       |       |         |
| 2450.00 | 6.00 | 81.2 | 2441.62 | 25.75 | 166.33 | 0.00    | 168.31 |       |       |         |
| 2500.00 | 6.00 | 81.2 | 2491.34 | 26.55 | 171.50 | 0.00    | 173.54 |       |       |         |
| 2550.00 | 6.00 | 81.2 | 2541.07 | 27.35 | 176.66 | 0.00    | 178.77 |       |       |         |
| 2600.00 | 6.00 | 81.2 | 2590.80 | 28.15 | 181.83 | 0.00    | 183.99 |       |       |         |
| 2650.00 | 6.00 | 81.2 | 2640.52 | 28.95 | 186.99 | 0.00    | 189.22 |       |       |         |
| 2700.00 | 6.00 | 81.2 | 2690.25 | 29.75 | 192.16 | 0.00    | 194.45 |       |       |         |
| 2750.00 | 6.00 | 81.2 | 2739.97 | 30.55 | 197.32 | 0.00    | 199.67 |       |       |         |
| 2800.00 | 6.00 | 81.2 | 2789.70 | 31.35 | 202.49 | 0.00    | 204.90 |       |       |         |
| 2850.00 | 6.00 | 81.2 | 2839.43 | 32.15 | 207.65 | 0.00    | 210.13 |       |       |         |
| 2900.00 | 6.00 | 81.2 | 2889.15 | 32.95 | 212.82 | 0.00    | 215.35 |       |       |         |
| 2950.00 | 6.00 | 81.2 | 2938.88 | 33.75 | 217.98 | 0.00    | 220.58 |       |       |         |
| 3000.00 | 6.00 | 81.2 | 2988.61 | 34.54 | 223.15 | 0.00    | 225.80 |       |       |         |
| 3050.00 | 6.00 | 81.2 | 3038.33 | 35.34 | 228.31 | 0.00    | 231.03 |       |       |         |
| 3100.00 | 6.00 | 81.2 | 3088.06 | 36.14 | 233.48 | 0.00    | 236.26 |       |       |         |
| 3150.00 | 6.00 | 81.2 | 3137.78 | 36.94 | 238.64 | 0.00    | 241.48 |       |       |         |
| 3200.00 | 6.00 | 81.2 | 3187.51 | 37.74 | 243.81 | 0.00    | 246.71 |       |       |         |
| 3250.00 | 6.00 | 81.2 | 3237.24 | 38.54 | 248.97 | 0.00    | 251.94 |       |       |         |
| 3300.00 | 6.00 | 81.2 | 3286.96 | 39.34 | 254.14 | 0.00    | 257.16 |       |       |         |

### 01-14-E4, Plan 1

|                            |                           |  |             |
|----------------------------|---------------------------|--|-------------|
| <b>Operator</b> Petroglyph | <b>Units</b> feet, %100ft | 12:02 Tuesday, October 02, 2012                    | Page 3 of 4 |
| <b>Field</b>               | <b>County</b> Duchesne    | <b>Vertical Section Azimuth</b> 81.2               |             |
| <b>Well Name</b> 01-14-E4  | <b>State</b> UT           | <b>Survey Calculation Method</b> Minimum Curvature |             |
| <b>Plan</b> 1              | <b>Country</b> USA        | <b>Database</b> Access                             |             |

|   |                  |                     |
|---|------------------|---------------------|
| <b>Location</b> 615' FSL 1690' FWL 01-5s-4w | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>                                 | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>                            | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b>                          | <b>Z Datum</b>   |                     |
| <b>Project</b>                              | <b>Surface Z</b> | <b>Ground Level</b> |

**DIRECTIONAL WELL PLAN**

| MD*                              | INC* | AZI* | TVD*    | N*    | E*     | DLS*   | V. S.* | MapE* | MapN* | SysTVD* |
|----------------------------------|------|------|---------|-------|--------|--------|--------|-------|-------|---------|
| ft                               | deg  | deg  | ft      | ft    | ft     | %100ft | ft     | ft    | ft    | ft      |
| 3350.00                          | 6.00 | 81.2 | 3336.69 | 40.14 | 259.30 | 0.00   | 262.39 |       |       |         |
| *** START DROP (at MD = 3380.00) |      |      |         |       |        |        |        |       |       |         |
| 3380.00                          | 6.00 | 81.2 | 3366.52 | 40.62 | 262.40 | 0.00   | 265.53 |       |       |         |
| 3400.00                          | 5.80 | 81.2 | 3386.42 | 40.94 | 264.43 | 1.00   | 267.58 |       |       |         |
| 3450.00                          | 5.30 | 81.2 | 3436.18 | 41.68 | 269.21 | 1.00   | 272.42 |       |       |         |
| 3500.00                          | 4.80 | 81.2 | 3485.99 | 42.35 | 273.56 | 1.00   | 276.82 |       |       |         |
| 3550.00                          | 4.30 | 81.2 | 3535.83 | 42.96 | 277.48 | 1.00   | 280.78 |       |       |         |
| 3600.00                          | 3.80 | 81.2 | 3585.71 | 43.50 | 280.97 | 1.00   | 284.32 |       |       |         |
| 3650.00                          | 3.30 | 81.2 | 3635.61 | 43.97 | 284.03 | 1.00   | 287.41 |       |       |         |
| 3700.00                          | 2.80 | 81.2 | 3685.54 | 44.38 | 286.66 | 1.00   | 290.07 |       |       |         |
| 3750.00                          | 2.30 | 81.2 | 3735.49 | 44.72 | 288.86 | 1.00   | 292.30 |       |       |         |
| 3800.00                          | 1.80 | 81.2 | 3785.46 | 44.99 | 290.62 | 1.00   | 294.09 |       |       |         |
| 3850.00                          | 1.30 | 81.2 | 3835.44 | 45.20 | 291.96 | 1.00   | 295.44 |       |       |         |
| 3900.00                          | 0.80 | 81.2 | 3885.43 | 45.34 | 292.87 | 1.00   | 296.35 |       |       |         |
| 3950.00                          | 0.30 | 81.2 | 3935.43 | 45.41 | 293.34 | 1.00   | 296.83 |       |       |         |
| *** END DROP (at MD = 3980.00)   |      |      |         |       |        |        |        |       |       |         |
| 3980.00                          | 0.00 | 0.0  | 3965.43 | 45.42 | 293.42 | 1.00   | 296.91 |       |       |         |
| 4000.00                          | 0.00 | 0.0  | 3985.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4050.00                          | 0.00 | 0.0  | 4035.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4100.00                          | 0.00 | 0.0  | 4085.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4150.00                          | 0.00 | 0.0  | 4135.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4200.00                          | 0.00 | 0.0  | 4185.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4250.00                          | 0.00 | 0.0  | 4235.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4300.00                          | 0.00 | 0.0  | 4285.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4350.00                          | 0.00 | 0.0  | 4335.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4400.00                          | 0.00 | 0.0  | 4385.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4450.00                          | 0.00 | 0.0  | 4435.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4500.00                          | 0.00 | 0.0  | 4485.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4550.00                          | 0.00 | 0.0  | 4535.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4600.00                          | 0.00 | 0.0  | 4585.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4650.00                          | 0.00 | 0.0  | 4635.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4700.00                          | 0.00 | 0.0  | 4685.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4750.00                          | 0.00 | 0.0  | 4735.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4800.00                          | 0.00 | 0.0  | 4785.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |
| 4850.00                          | 0.00 | 0.0  | 4835.43 | 45.42 | 293.42 | 0.00   | 296.91 |       |       |         |

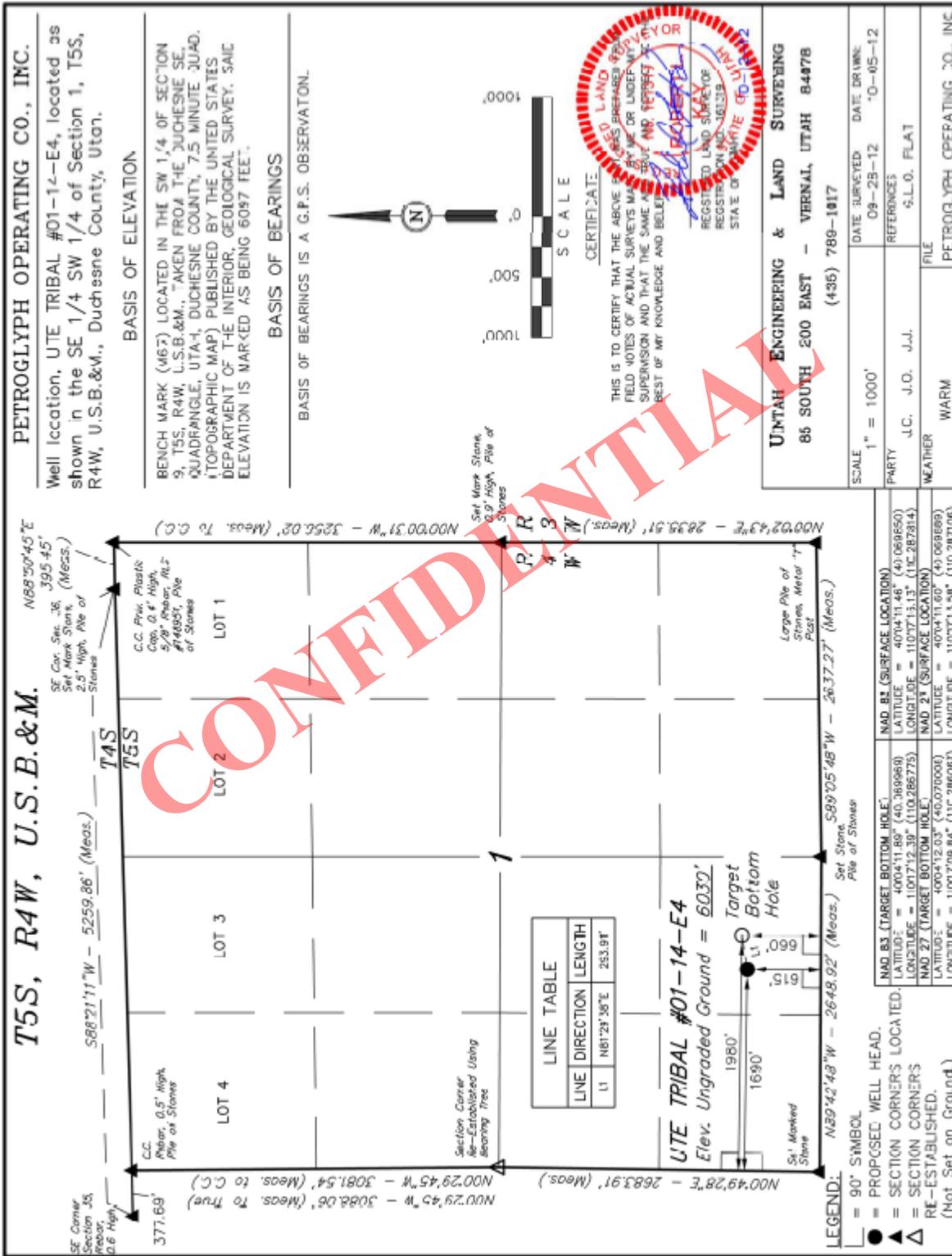
### 01-14-E4, Plan 1

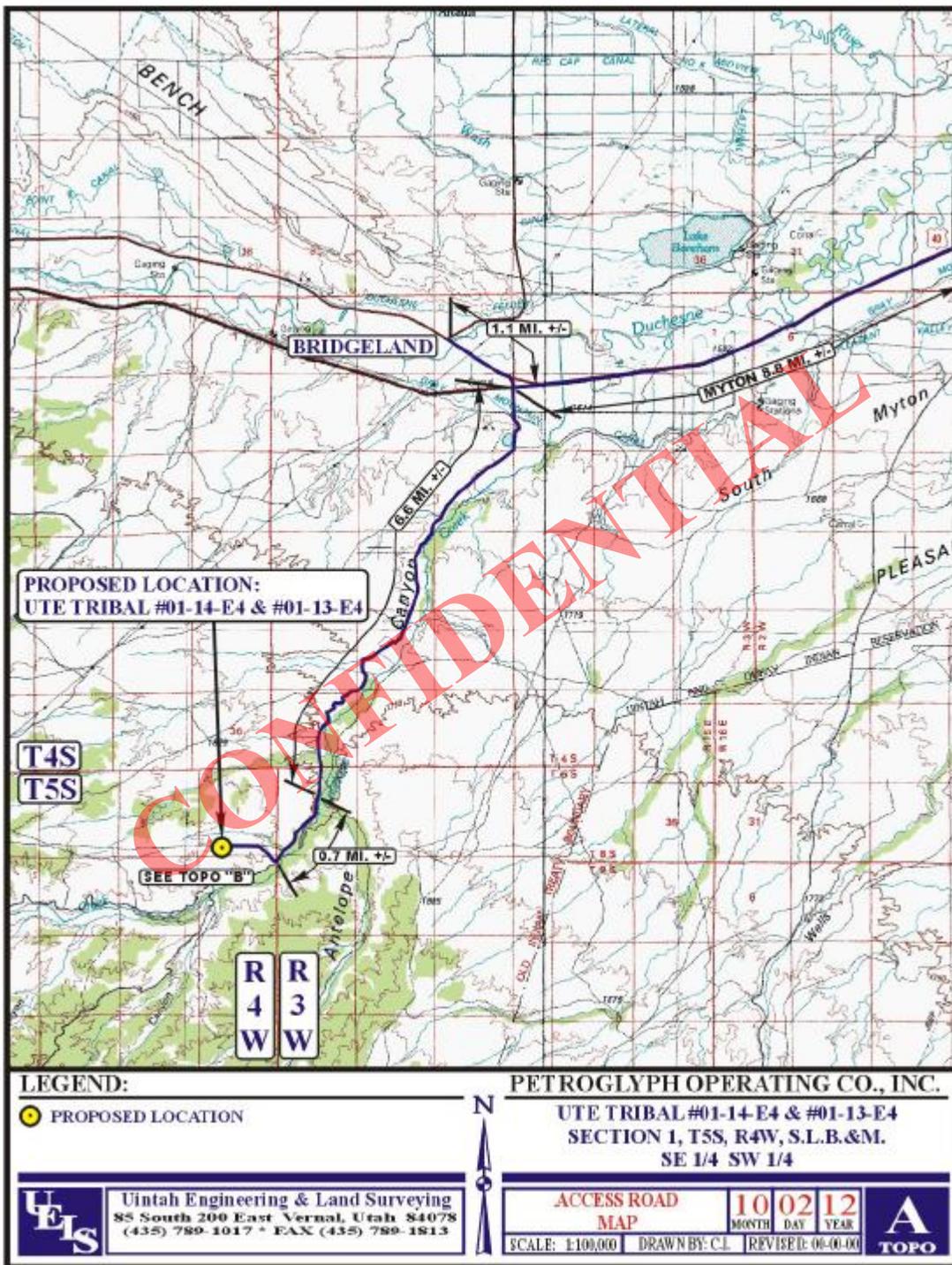
|                            |                            |  |
|----------------------------|----------------------------|--|
| <b>Operator</b> Petroglyph | <b>Units</b> feet, %/100ft | 12:02 Tuesday, October 02, 2012 Page 4 of 4        |
| <b>Field</b>               | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 81.2               |
| <b>Well Name</b> 01-14-E4  | <b>State</b> UT            | <b>Survey Calculation Method</b> Minimum Curvature |
| <b>Plan</b> 1              | <b>Country</b> USA         | <b>Database</b> Access                             |

|   |                  |                     |
|---|------------------|---------------------|
| <b>Location</b> 615' FSL 1690' FWL 01-5s-4w | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>                                 | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>                            | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b>                          | <b>Z Datum</b>   |                     |
| <b>Project</b>                              | <b>Surface Z</b> | <b>Ground Level</b> |

**DIRECTIONAL WELL PLAN**

| MD*                       | INC* | AZI* | TVD*    | N*    | E*     | DLS*    | V. S.* | MapE* | MapN* | SysTVD* |
|---------------------------|------|------|---------|-------|--------|---------|--------|-------|-------|---------|
| ft                        | deg  | deg  | ft      | ft    | ft     | %/100ft | ft     | ft    | ft    | ft      |
| 4900.00                   | 0.00 | 0.0  | 4885.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 4950.00                   | 0.00 | 0.0  | 4935.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5000.00                   | 0.00 | 0.0  | 4985.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5050.00                   | 0.00 | 0.0  | 5035.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5100.00                   | 0.00 | 0.0  | 5085.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5150.00                   | 0.00 | 0.0  | 5135.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5200.00                   | 0.00 | 0.0  | 5185.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5250.00                   | 0.00 | 0.0  | 5235.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5300.00                   | 0.00 | 0.0  | 5285.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5350.00                   | 0.00 | 0.0  | 5335.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5400.00                   | 0.00 | 0.0  | 5385.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5450.00                   | 0.00 | 0.0  | 5435.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5500.00                   | 0.00 | 0.0  | 5485.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5550.00                   | 0.00 | 0.0  | 5535.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5600.00                   | 0.00 | 0.0  | 5585.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5650.00                   | 0.00 | 0.0  | 5635.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5700.00                   | 0.00 | 0.0  | 5685.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5750.00                   | 0.00 | 0.0  | 5735.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5800.00                   | 0.00 | 0.0  | 5785.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5850.00                   | 0.00 | 0.0  | 5835.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5900.00                   | 0.00 | 0.0  | 5885.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 5950.00                   | 0.00 | 0.0  | 5935.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 6000.00                   | 0.00 | 0.0  | 5985.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 6050.00                   | 0.00 | 0.0  | 6035.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| 6100.00                   | 0.00 | 0.0  | 6085.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |
| *** RTD (at MD = 6139.00) |      |      |         |       |        |         |        |       |       |         |
| 6139.00                   | 0.00 | 0.0  | 6124.43 | 45.42 | 293.42 | 0.00    | 296.91 |       |       |         |





**PETROGLYPH OPERATING CO., INC.**  
**P.O. BOX 607**  
**ROOSEVELT, UTAH 84066**

October 30, 2012

Ms. Diana Mason  
State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 01-14-E4: 615' FSL & 1690' FWL, SE/SW, SEC. 1, (Surface Hole)  
660' FSL & 1980' FWL, SE/SW, Sec. 1, (Bottom Hole)  
T5S, R4W, U.S.B.&M., Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on October 30, 2012, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 01-10-E4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,  
Agent  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420  
E-mail: edtrotter@easilink.com

**Certification**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 01-14-E4 Well, located in SE/SW of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

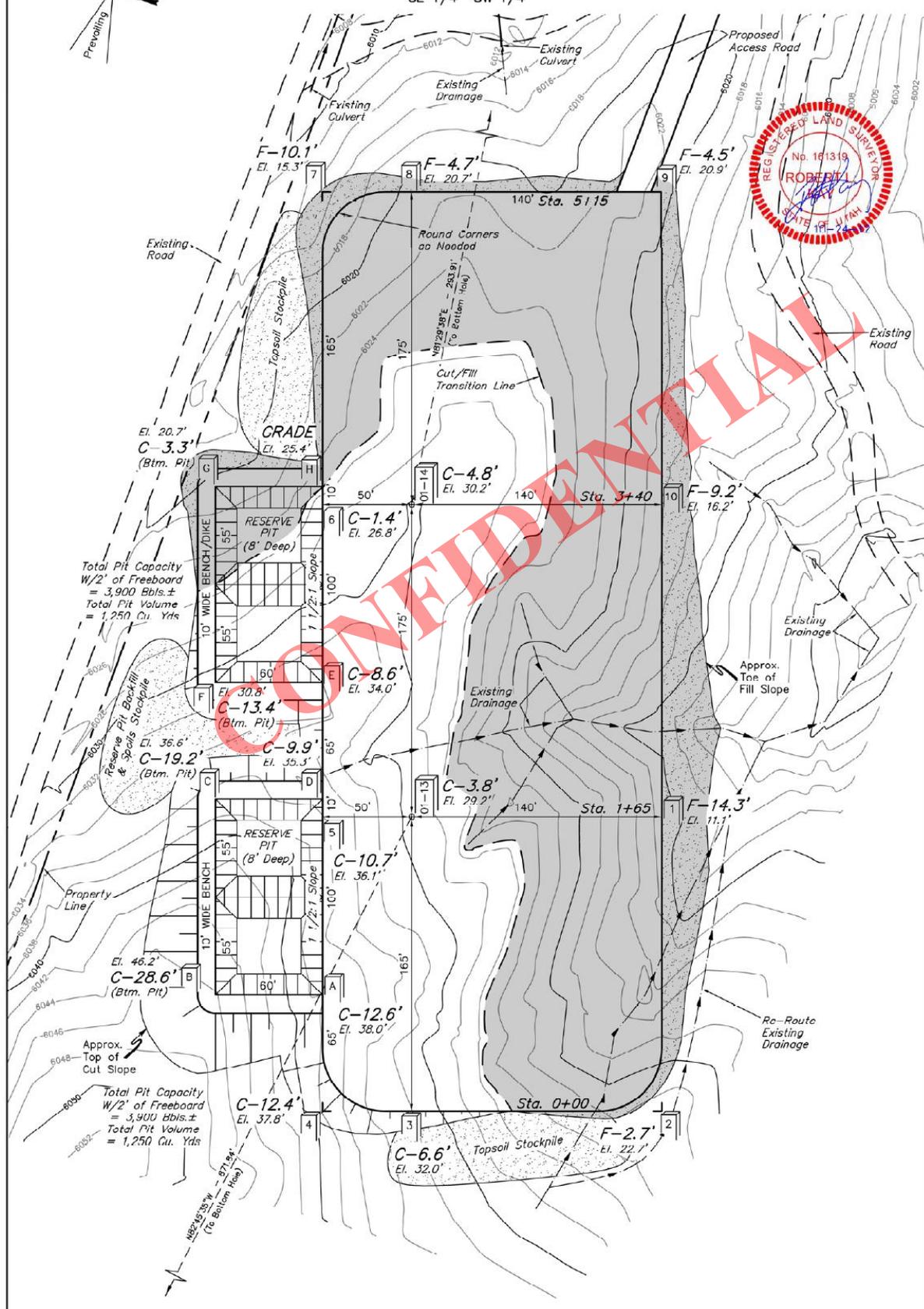
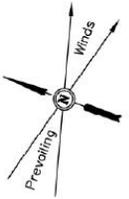
**CONFIDENTIAL**

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR  
 UTE TRIBAL #01-14-E4 & #01-13-E4  
 SECTION 1, T5S, R4W, U.S.B.&M.  
 SE 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 50'  
 DATE: 10-05-12  
 DRAWN BY: J.J.  
 REVISED: 10-18-12

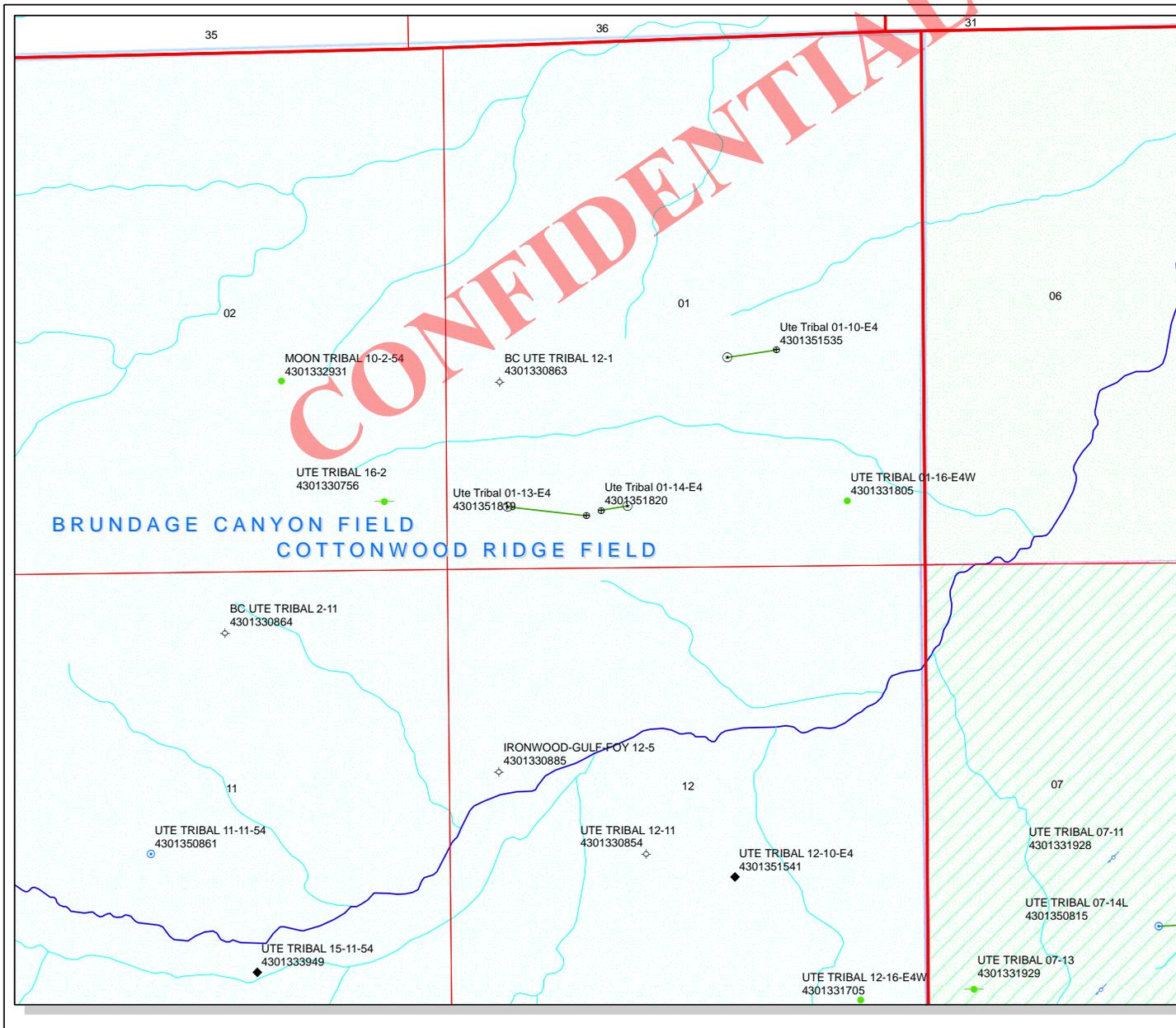


Total Pit Capacity  
 W/2' of Freeboard  
 = 3,900 Bbls.±  
 Total Pit Volume  
 = 1,250 Cu. Yds

Total Pit Capacity  
 W/2' of Freeboard  
 = 3,900 Bbls.±  
 Total Pit Volume  
 = 1,250 Cu. Yds

Elev. Ungraded Ground At #01-13-E4 Loc. Stake = 6029.2'  
 FINISHED GRADE ELEV. AT #01-13-E4 LOC. STAKE = 6025.4'

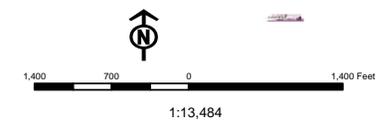
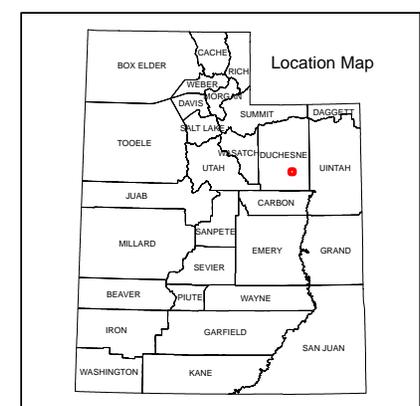
UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



**API Number: 4301351820**  
**Well Name: Ute Tribal 01-14-E4**  
**Township T05.0S Range R04.0W Section 01**  
**Meridian: UBM**  
 Operator: PETROGLYPH OPERATING CO

Map Prepared:  
 Map Produced by Diana Mason

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



# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** PETROGLYPH OPERATING CO  
**Well Name** Ute Tribal 01-14-E4  
**API Number** 43013518200000      **APD No** 7043      **Field/Unit** BRUNDAGE CANYON  
**Location: 1/4,1/4 SESW Sec 1 Tw 5.0S Rng 4.0W 615 FSL 1690 FWL**  
**GPS Coord (UTM) 560728 4435755**      **Surface Owner** Petroglyph Operating Co., Inc.

### Participants

Rodrigo Jurado & Les Farnsworth (Petroglyph Operating and landowner); Ed Trotter (Land Agent); Bill Civish (BLM); Dennis Ingram (Utah Division of Oil, Gas & Mining)

### Regional/Local Setting & Topography

The Ute Tribal 1-13-E4 and 1-14-E4 are both proposed on connected locations as directional wells that target the SW/SW and the SE/SW of Section 1, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 7.1 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.5 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a narrow, fingered east/west ridge that drops into the canyon below.

### Surface Use Plan

**Current Surface Use**  
 Wildlife Habitat  
 Deer Winter Range

| New Road Miles | Well Pad             | Src Const Material | Surface Formation |
|----------------|----------------------|--------------------|-------------------|
| 0.07           | Width 515 Length 190 | Onsite             | UNTA              |

### **Ancillary Facilities N**

Two well pad with extended location and two reserve pits

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetlands N**

### **Flora / Fauna**

Sparse vegetation, cedar tree, sagebrush, rabbit brush, bunch grass, prickly pear cactus; mule deer winter range, littered with tracks, elk potential, coyote, rabbit, fox, raptor nest in area, no details.

### **Soil Type and Characteristics**

Tan, fine-grained, sandy loam with some clays and shales present

**Erosion Issues** N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

|  |                  |    |
|--|------------------|----|
| <b>Distance to Groundwater (feet)</b>    | >200             | 0  |
| <b>Distance to Surface Water (feet)</b>  | >1000            | 0  |
| <b>Dist. Nearest Municipal Well (ft)</b> | >5280            | 0  |
| <b>Distance to Other Wells (feet)</b>    |                  | 20 |
| <b>Native Soil Type</b>                  | Mod permeability | 10 |
| <b>Fluid Type</b>                        | Fresh Water      | 5  |
| <b>Drill Cuttings</b>                    | Normal Rock      | 0  |
| <b>Annual Precipitation (inches)</b>     |                  | 0  |
| <b>Affected Populations</b>              |                  |    |
| <b>Presence Nearby Utility Conduits</b>  | Not Present      | 0  |
| <b>Final Score</b>                       |                  | 35 |

1 Sensitivity Level

**Characteristics / Requirements**

Reserve pit staked on northwest side of location in cut, measuring 110' long by 60' wide by 8' deep; however, the northeastern third of that pit is proposed in fill material.

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

**Other Observations / Comments**

Petroglyph Operating has purchased the surface from the landowner, landowner agreement is in place, well pad was lengthened to provide a greater distance between the wellbores, BLM requested "Culvert Green" as the color of choice for the equipment, also claimed their data base shows a "raptor's nest" in the area and requested a low activity stipulation during nesting season, an existing county road runs east/west immediately north of the proposed reserve pits. A portion of the reserve pit for the 1-14 is in fill, or the northeastern third.

Dennis Ingram  
Evaluator

11/27/2012  
Date / Time

# Application for Permit to Drill Statement of Basis

## Utah Division of Oil, Gas and Mining

| APD No           | API WellNo  | Status | Well Type                | Surf Owner                     | CBM |
|------------------|---|--------|--------------------------|--------------------------------|-----|
| 7043             | 43013518200000  | LOCKED | OW                       | P                              | No  |
| <b>Operator</b>  | PETROGLYPH OPERATING CO   |        | <b>Surface Owner-APD</b> | Petroglyph Operating Co., Inc. |     |
| <b>Well Name</b> | Ute Tribal 01-14-E4   |        | <b>Unit</b>              |                                |     |
| <b>Field</b>     | BRUNDAGE CANYON   |        | <b>Type of Work</b>      | DRILL                          |     |
| <b>Location</b>  | SESW 1 5S 4W U 615 FSL 1690 FWL GPS Coord<br>(UTM) 560736E 4435768N |        |                          |                                |     |

### Geologic Statement of Basis

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

Brad Hill  
APD Evaluator

12/10/2012  
Date / Time

### Surface Statement of Basis

A presite visit was scheduled and done on Tuesday, November 27, 2012 to take input and address issues regarding the drilling and construction of the Ute Tribal 1-13-E4 and the 1-14-E4 wells on a multi-well pad. Petroglyph Operating is shown as the landowner of record and was therefore invited to the presite. Rodrigo Jurado came along and represented the landowner interests, and they obviously have a landowner agreement.

Two reserve pits are proposed on this extended, multi-well pad just north of the surface. The reserve pit staked for the 1-13 is the western pit an completely in cut; while the reserve pit proposed for the 1-14 is further east and has the northeastern third in fill. A solid dike shall be constructed in this pit to assure the state this p[it will not leak. Furthermore, both pits shall be lined with a minimum 16 mil synthetic liner and a pad if necessary to prevent seepage.

Two drainages are noted on the cut and fill sheet, both of which drain southerly from near the center of the location. However, only the western drainage heads up above the proposed pad and shall be routed around the well surface. The cut and fill sheet also show reserve pit spoils and topsoil piles very close to the existing county road to the north. The operator shall take care to keep those spoils off the roadway. There wasn't any springs, surface water or creeks observed in the immediate area around this pad. The BLM did make note of an existing hawk nest in the area but did not have any details as to how far, or when the nest was last utilized.

Dennis Ingram  
Onsite Evaluator

11/27/2012  
Date / Time

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

| Category | Condition  |
|----------|--|
| Pits     | A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit. |
| Pits     | The reserve pit should be located on the north side of the location.   |

Surface Drainages adjacent to the proposed pad shall be diverted around the location.  
Surface The well site shall be bermed to prevent fluids from leaving the pad.

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/30/2012

API NO. ASSIGNED: 43013518200000

WELL NAME: Ute Tribal 01-14-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESW 01 050S 040W

Permit Tech Review: 

SURFACE: 0615 FSL 1690 FWL

Engineering Review: 

BOTTOM: 0660 FSL 1980 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.06999

LONGITUDE: -110.28775

UTM SURF EASTINGS: 560736.00

NORTHINGS: 4435768.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-4743

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - LPM4138153
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-8342
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-11
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill  
 4 - Federal Approval - dmason  
 5 - Statement of Basis - bhill  
 15 - Directional - dmason  
 23 - Spacing - dmason



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:** Ute Tribal 01-14-E4  
**API Well Number:** 43013518200000  
**Lease Number:** 14-20-H62-4743  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 12/11/2012

### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Bosie, ID 83703

### 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 R649-3-11. 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

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

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

### Conditions of Approval:

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

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

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

**Additional Approvals:**

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

# CONFIDENTIAL

## BLM - Vernal Field Office - Notification Form

Operator 4301334132

\_ Rig Name/# Craig's /Air rig Submitted By Rodrigo Jurado

Phone Number 435-722-5302

Well Name/Number Ute Tribal 01-14-E4

Qtr/Qtr SESW Section 01 Township 5S Range 4W

Lease Serial Number 14-20-H62-4743

API Number 43-013-51820

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

Date/Time 1/14/2013 8:00 AM  PM

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

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

Date/Time \_\_\_\_\_ AM  PM

### BOPE

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

Date/Time \_\_\_\_\_ AM  PM

Remarks We intend to spud this well at the time indicated. We

will set 40' of 16" Conductor. (Sent 1/11/2013 @ 4:00 P.M.)

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Air rig  
Submitted By Rodrigo Jurado Phone Number 435-722-5302  
Well Name/Number Ute Tribal 01-14-E4  
Qtr/Qtr SESW Section 01 Township 5S Range 4W  
Lease Serial Number 14-20-H62-4743  
API Number 43-013-51820

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

Date/Time 1/14/2013 8:00 AM  PM

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

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

Date/Time \_\_\_\_\_ AM  PM

BOPE

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

RECEIVED  
JAN 11 2013  
DIV. OF OIL, GAS & MINING

Date/Time \_\_\_\_\_ AM  PM

Remarks We intend to spud this well at the time indicated. We will set 40' of 16" Conductor. (Sent 1/11/2013 @ 4:00 P.M.)

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Air rig  
Submitted By Rodrigo Jurado Phone Number 435-722-5302  
Well Name/Number Ute Tribal 01-14-E4  
Qtr/Qtr SESW Section 01 Township 5S Range 4W  
Lease Serial Number 14-20-H62-4743  
API Number 43-013-51820

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

Date/Time \_\_\_\_\_ AM  PM

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

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

Date/Time 1/17/2013 2:00 AM  PM

BOPE

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

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

Date/Time \_\_\_\_\_ AM  PM

Remarks We intend to run +/- 500' of 8-/58" J-55 Casing at the time indicated. (sent 1/16/2013 @ 8:00 A.M.)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

OCT 30 2012

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

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

**BLM**

|   |  |   |  |
|---|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER  |  | <b>CONFIDENTIAL</b>   |  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone                            |  |   |  |
| 2. Name of Operator<br>PETROGLYPH OPERATING CO INC  |  | Contact: ED H TROTTER<br>Email: edtrotter@easilink.com  |  |
| 3a. Address<br>ROOSEVELT, UT 84066  |  | 3b. Phone No. (include area code)<br>Ph: 435-789-4120<br>Fx: 435-789-1420   |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface SESW 615FSL 1690FWL 40.069850 N Lat, 110.287814 W Lon<br>At proposed prod. zone SESW 660FSL 1980FWL 40.069889 N Lat, 110.287106 W Lon |  | 10. Field and Pool, or Exploratory<br>UNDESIGNATED  |  |
| 14. Distance in miles and direction from nearest town or post office*<br>17.32 MILES SOUTHWEST OF MYTON, UT   |  | 11. Sec., T., R., M., or Blk. and Survey or Area<br>Sec 1 T5S R4W Mer UBM<br>SME: FEE                             |  |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>615   |  | 12. County or Parish<br>DUCHESE   |  |
| 16. No. of Acres in Lease<br>640.00   |  | 13. State<br>UT   |  |
| 17. Spacing Unit dedicated to this well   |  | 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.<br>1764 |  |
| 19. Proposed Depth<br>6139 MD<br>6124 TVD   |  | 20. BLM/BIA Bond No. on file<br>LPM4138335  |  |
| 21. Elevations (Show whether DF, KB, RT, GL, etc.)<br>6025 GL   |  | 22. Approximate date work will start<br>01/15/2013  |  |
|   |  | 23. Estimated duration<br>45 DAYS   |  |

24. Attachments

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

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

|  |  |                     |
|--|--|---------------------|
| 25. Signature<br>(Electronic Submission) | Name (Printed/Typed)<br>LESTER FARNSWORTH Ph: 435-722-2531 | Date<br>10/30/2012  |
| Title<br>DISTRICT MANAGER                |  |                     |
| Approved by (Signature)<br>              | Name (Printed/Typed)<br>Jerry Kenczka                      | Date<br>JAN 11 2013 |
| 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.

**RECEIVED**

Additional Operator Remarks (see next page)

JAN 22 2013

Electronic Submission #156928 verified by the BLM Well Information System  
For PETROGLYPH OPERATING CO INC, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/13/2012 (13JMO784AE)

DIV. OF OIL, GAS & MINING

**UDOGM**



**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**

|                 |                                     |                   |                               |
|-----------------|-------------------------------------|-------------------|-------------------------------|
| <b>Company:</b> | <b>PETROGLYPH OPERATING COMPANY</b> | <b>Location:</b>  | <b>SESW, Sec. 1, T5S, R4W</b> |
| <b>Well No:</b> | <b>UTE TRIBAL 01-14-E4</b>          | <b>Lease No:</b>  | <b>14-20-H62-4743</b>         |
| <b>API No:</b>  | <b>43-013-51820</b>                 | <b>Agreement:</b> | <b>N/A</b>                    |

**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**

|   |  |
|---|--|
| Construction Activity<br>(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)   | - The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.                                      |
| Construction Completion<br>(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist) | - Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig. |
| Spud Notice<br>(Notify BLM Petroleum Engineer)  | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify BLM Supv. Petroleum Tech.)                                       | - Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .   |
| BOP & Related Equipment Tests<br>(Notify BLM Supv. Petroleum Tech.)                                   | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify BLM 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)***

- Any deviation of submitted APD's, which includes Petroglyph's surface use plan, and the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, and COA authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the BLM will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease until resources can be identified and protected properly.
- Production facilities would be painted Beetle for the 12-04-E4 and Covert Green for 01-13-E4 and 01-14E4 to blend in with the surrounding habitat, unless otherwise stated from the private land owner agreement.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM AO for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.
- The pad locations will be recontoured and planted in native vegetation as per the land owner's request.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for long-string shall be circulated 200` above surface casing shoe.

**Variances Granted**

Variance for Air-drilling is granted per APD

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

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

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Aztec # 673  
 Submitted By Kenny Gray Phone Number 970-361-3271  
 Well Name/Number Ute Tribal 01-14-E4  
 Qtr/Qtr SESW Section 01 Township 5S Range 4W  
 Lease Serial Number 14-20-H-62-4743  
 API Number 43-013-51820

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

Date/Time \_\_\_\_\_ AM  PM

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

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

Date/Time \_\_\_\_\_ AM  PM

BOPE

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

RECEIVED

JAN 23 2013

DIV. OF OIL, GAS & MINING

Date/Time 01/19/2013 9:00 AM  PM

Remarks \_\_\_\_\_

| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | FORM 9  |
|---|--|---|
|   |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-4743  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.                |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  |
|   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>  |
| <b>1. TYPE OF WELL</b><br>Oil Well  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 01-14-E4   |   |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO  | <b>9. API NUMBER:</b><br>43013518200000  |   |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Bosie, ID, 83703   | <b>PHONE NUMBER:</b><br>208 685-7685 Ext   | <b>9. FIELD and POOL or WILDCAT:</b><br>BRUNDAGE CANYON   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0615 FSL 1690 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U   |  | <b>COUNTY:</b><br>DUCHESNE  |
|   |  | <b>STATE:</b><br>UTAH   |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |  |   |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |   |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:<br><br><input type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br><br><input checked="" type="checkbox"/> SPUD REPORT<br>Date of Spud:<br>1/14/2013<br><br><input type="checkbox"/> DRILLING REPORT<br>Report Date: | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> WILDCAT WELL DETERMINATION<br><input type="checkbox"/> OTHER |   |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>This well was spud on 01/14/2013. We set 40' of 16" Conductor.  |  |   |
|   |  | <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY<br/>February 08, 2013</b> |
| <b>NAME (PLEASE PRINT)</b><br>Rodrigo Jurado  | <b>PHONE NUMBER</b><br>435 722-5302  | <b>TITLE</b><br>Regulatory & Compliance Spc   |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>1/21/2013   |   |

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

FORM 6

**ENTITY ACTION FORM**

Operator: Petroglyph Operating Company Operator Account Number: N 3800  
Address: P.O. Box 607  
city Roosevelt  
state UT zip 84066 Phone Number: (435) 722-2531

**Well 1**

| API Number   | Well Name             |                   | QQ        | Sec | Twp                              | Rng | County              |
|--|-----------------------|-------------------|-----------|-----|----------------------------------|-----|---------------------|
| 4301351820   | Ute Tribal 01-14-E4   |                   | SESW      | 1   | 5S                               | 4W  | Duchesne            |
| Action Code  | Current Entity Number | New Entity Number | Spud Date |     | Entity Assignment Effective Date |     |                     |
| A  | 99999                 | 18870             | 1/14/2013 |     | 1/21/13                          |     |                     |
| <b>Comments:</b> Please create a new entity named Ute Tribal 01-14-E4 Tank Battery.<br><i>GRRV bh SESW</i> |                       |                   |           |     |                                  |     | <b>CONFIDENTIAL</b> |

**Well 2**

| API Number       | Well Name             |                   | QQ        | Sec | Twp                              | Rng | County |
|------------------|-----------------------|-------------------|-----------|-----|----------------------------------|-----|--------|
|                  |                       |                   |           |     |                                  |     |        |
| Action Code      | Current Entity Number | New Entity Number | Spud Date |     | Entity Assignment Effective Date |     |        |
|                  |                       |                   |           |     |                                  |     |        |
| <b>Comments:</b> |                       |                   |           |     |                                  |     |        |

**Well 3**

| API Number       | Well Name             |                   | QQ        | Sec | Twp                              | Rng | County |
|------------------|-----------------------|-------------------|-----------|-----|----------------------------------|-----|--------|
|                  |                       |                   |           |     |                                  |     |        |
| Action Code      | Current Entity Number | New Entity Number | Spud Date |     | Entity Assignment Effective Date |     |        |
|                  |                       |                   |           |     |                                  |     |        |
| <b>Comments:</b> |                       |                   |           |     |                                  |     |        |

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc

1/21/2013

Title

Date

**RECEIVED**

JAN 22 2013

Div. of Oil, Gas & Mining

|  |   |
|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b><br><br><b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-4743   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br><br><b>7. UNIT or CA AGREEMENT NAME:</b>  |
| <b>1. TYPE OF WELL</b><br>Oil Well   | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 01-14-E4  |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   | <b>9. API NUMBER:</b><br>43013518200000   |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Boise, ID, 83703  | <b>PHONE NUMBER:</b><br>208 685-7685 Ext  |
| <b>9. FIELD and POOL or WILDCAT:</b><br>BRUNDAGE CANYON  | <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0615 FSL 1690 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U |
|  | <b>COUNTY:</b><br>DUCHESNE<br><br><b>STATE:</b><br>UTAH   |

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

| TYPE OF SUBMISSION  | TYPE OF ACTION   |   |   |
|---|--|---|---|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>3/7/2013</b> | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                       | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:  | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   | <input type="checkbox"/> DEEPEN                        | <input checked="" type="checkbox"/> FRACTURE TREAT      | <input type="checkbox"/> NEW CONSTRUCTION               |
|   | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|   | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|   | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|   | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|   | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input type="checkbox"/> APD EXTENSION                  |
|   | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

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

On or around 3/7/2013, depending on equipment availability, we intend to perforate and fracture treat the following intervals: 3536-40, 3550-52, 3567-72, 3640-44, 3869-72, 3896-3900, 3904-08, 3925-27, 3980-86, 4000-04, 4175-77, 4175-77, 4183-87, 4370-72, 4572-75, 4600-03, 4690-92, 4694-4703, 476880, 4827-29, 4834-36, 4915-17, 5250-54, 5262-65, 5272-77, 5286-90, 5306-10, 5319-23, 5919-23, 5927-30, 5946-48, 5970-72, 5977-79, 5988-92, 6007-09, 6012-14 & 6026-29. We intend to perforate using Titan 3-1/8" perf guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120\* phased. We intend to fracture treat using Delta 140 15# gelled fluid containing 20/40 mesh sand. Volumes and amounts will be reported at a later date.

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

**Date:** March 05, 2013

**By:** *Dark Quist*

|  |                                     |   |
|--|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Rodrigo Jurado | <b>PHONE NUMBER</b><br>435 722-5302 | <b>TITLE</b><br>Regulatory & Compliance Spc |
| <b>SIGNATURE</b><br>N/A                      |                                     | <b>DATE</b><br>2/26/2013                    |

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
|  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-4743 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                     |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 01-14-E4           |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   |  | <b>9. API NUMBER:</b><br>43013518200000                          |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Boise, ID, 83703  | <b>PHONE NUMBER:</b><br>208 685-7685 Ext | <b>9. FIELD and POOL or WILDCAT:</b><br>BRUNDAGE CANYON          |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0615 FSL 1690 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U                                      |  | <b>COUNTY:</b><br>DUCHESNE                                       |
|  |  | <b>STATE:</b><br>UTAH  |

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

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |   |
|--|--|---|---|
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:                 | <input type="checkbox"/> ACIDIZE                               | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>3/30/2013 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS              | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  | <input type="checkbox"/> CHANGE WELL STATUS                    | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:                                       | <input type="checkbox"/> DEEPEN                                | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION               |
|  | <input type="checkbox"/> OPERATOR CHANGE                       | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|  | <input checked="" type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION         | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|  | <input type="checkbox"/> TUBING REPAIR                         | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> WATER SHUTOFF                         | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input type="checkbox"/> APD EXTENSION                  |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION            | <input type="checkbox"/> OTHER                          | OTHER: <input type="text"/>                             |

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

The date of first production for this well was 03/30/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 03, 2013**

|  |                                     |   |
|--|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Rodrigo Jurado | <b>PHONE NUMBER</b><br>435 722-5302 | <b>TITLE</b><br>Regulatory & Compliance Spc |
| <b>SIGNATURE</b><br>N/A                      | <b>DATE</b><br>4/2/2013             |   |

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
|  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>14-20-H62-4743 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                     |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                             |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 01-14-E4           |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   |  | <b>9. API NUMBER:</b><br>43013518200000                          |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Boise, ID, 83703  | <b>PHONE NUMBER:</b><br>208 685-7685 Ext | <b>9. FIELD and POOL or WILDCAT:</b><br>BRUNDAGE CANYON          |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0615 FSL 1690 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U                                      |  | <b>COUNTY:</b><br>DUCHESNE                                       |
|  |  | <b>STATE:</b><br>UTAH  |

11.

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

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |   |
|--|--|---|---|
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:                 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>3/30/2013 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:                                       | <input type="checkbox"/> DEEPEN                        | <input checked="" type="checkbox"/> FRACTURE TREAT      | <input type="checkbox"/> NEW CONSTRUCTION               |
|  | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|  | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|  | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input type="checkbox"/> APD EXTENSION                  |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

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

Please see attached form.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 02, 2013**

|  |                                     |   |
|--|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Rodrigo Jurado | <b>PHONE NUMBER</b><br>435 722-5302 | <b>TITLE</b><br>Regulatory & Compliance Spc |
| <b>SIGNATURE</b><br>N/A                      | <b>DATE</b><br>5/1/2013             |   |

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

FORM 9

|  |  |                                   |   |
|--|--|-----------------------------------|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |  |                                   | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>14-20-H62-4743 |
| 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:<br>Ute Indian Tribe |
|  |  |                                   | 7. UNIT or CA AGREEMENT NAME:<br>14-20-H62-4650           |
| 1. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____  |  |                                   | 8. WELL NAME and NUMBER:<br>Ute Tribal 01-14 -E4          |
| 2. NAME OF OPERATOR:<br>Petroglyph Operating Company Inc.  |  |                                   | 9. API NUMBER:<br>4301351820                              |
| 3. ADDRESS OF OPERATOR:<br>P.O. Box 607  |  | CITY Roosevelt STATE UT ZIP 84066 | PHONE NUMBER:<br>(435) 722-2531                           |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 615' FSL, 1690' FWL  |  |                                   | 10. FIELD AND POOL, OR WILDCAT:<br>Antelope Creek         |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 1 5S 4W U  |  |                                   | COUNTY: Duchesne<br>STATE: UTAH                           |

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |   |   |  |
|---|---|---|--|
| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____              | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|   | <input type="checkbox"/> ALTER CASING                   | <input checked="" type="checkbox"/> FRACTURE TREAT        | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                 |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>3/30/2013 | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

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

On 2/20/13 Petroglyph Operating ran GR/CBL and found ETOC@ Surface. On 3/7/2013 we perforated the following: 6026-29, 6012-14, 6007-09, 5988-92, 5977-79, 5970-72, 5946-48, 5927-30, 5919-23, 5698-5705, 5691-96, 5676-85, 5670-74, 5660-65, 5641-44, 5585-90, 5572-76, 5534-39, 5523-32, 5319-23, 5306-10, 5286-90, 5272-77, 5262-65, 5250-54, 4915-17, 4834-36, 4827-29, 4768-80, 4694-4703, 4690-92, 4600-03, 4572-75, 4370-72, 4183-87, 4175-77, 4000-04, 3980-86, 3925-27, 3904-08, 3896-3900, 3869-72, . Using Halliburton 8K Composite plugs for isolation, we frac'd and treated the following: 5919-6029: 993 Bbls 15% Hcl gelled acid w/ 133 Bbl fresh water over flush, 5523-5705: 1010 Bbls fluid cont 102,430#'s of sand,

5250-5323: 728 Bbls fluid cont 48,677#'s of sand,  
4768-4917: 705 Bbls fluid cont 45,467#'s of sand,  
4572-4703: 448 Bbls fluid cont 36,292#'s of sand,  
4175-4372: 487 Bbls fluid cont 20,019#'s of sand,  
3869-4004: 765 Bbls fluid cont 37,113#'s of sand.

We frac'd using Dyna HT 25 15# gelled fluid containing 20/40 Mesh Sand. We perforated using Titan 3-1/8" perf guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120\* phased. All plugs were drilled out and cleaned out to 6244', PBTD. The well was swabbed until a good oil cut was seen then put to pump on 3/30/2013.

|   |   |
|---|---|
| NAME (PLEASE PRINT) <u>Rodrigo Jurado</u> | TITLE <u>Regulatory Compliance Spc.</u> |
| SIGNATURE <u><i>Rodrigo Jurado</i></u>    | DATE <u>5/1/2013</u>                    |

(This space for State use only)

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

|   |  |   |
|---|--|---|
| 1a. TYPE OF WELL:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____  |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br><b>14-20-H62-4743</b>          |
| b. TYPE OF WORK:<br>NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____ |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br><b>Ute Indian Tribe</b>          |
| 2. NAME OF OPERATOR:<br><b>Petroglyph Operating Company, Inc.</b>   |  | 7. UNIT or CA AGREEMENT NAME  |
| 3. ADDRESS OF OPERATOR:<br><b>P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066</b>  |  | 8. WELL NAME and NUMBER:<br><b>Ute Tribal 01-14-E4</b>                    |
| PHONE NUMBER:<br><b>(435) 722-2531</b>  |  | 9. API NUMBER:<br><b>4301351820</b>                                       |
| 4. LOCATION OF WELL (FOOTAGES)<br>AT SURFACE: <b>615' FSL 1690' FWL</b><br><br>AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>663' FSL 2000' FWL</b><br><br>AT TOTAL DEPTH: <b>663' FSL 1985' FWL</b>                         |  | 10. FIELD AND POOL, OR WILDCAT  |
|   |  | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br><b>SESW 1 5S 4W U</b> |
|   |  | 12. COUNTY: <b>Duchesne</b> 13. STATE: <b>UTAH</b>                        |

|  |   |  |  |   |
|--|---|--|--|---|
| 14. DATE SPUDDED:<br><b>1/14/2013</b>  | 15. DATE T.D. REACHED:<br><b>1/22/2013</b>              | 16. DATE COMPLETED:<br><b>3/19/2013</b>  | ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>  | 17. ELEVATIONS (DF, RKB, RT, GL):<br><b>6039' RKB</b> |
| 18. TOTAL DEPTH: MD <b>6,305</b><br>TVD <b>6,288</b>   | 19. PLUG BACK T.D.: MD <b>6,244</b><br>TVD <b>6,227</b> | 20. IF MULTIPLE COMPLETIONS, HOW MANY? * |  | 21. DEPTH BRIDGE MD<br>PLUG SET: TVD                  |
| 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)<br><b>ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot</b> |   |  | 23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis)<br>WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report)<br>DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy) |   |

24. CASING AND LINER RECORD (Report all strings set in well)

| HOLE SIZE | SIZE/GRADE | WEIGHT (#/ft.) | TOP (MD) | BOTTOM (MD) | STAGE CEMENTER DEPTH | CEMENT TYPE & NO. OF SACKS | SLURRY VOLUME (BBL) | CEMENT TOP ** | AMOUNT PULLED |
|-----------|------------|----------------|----------|-------------|----------------------|----------------------------|---------------------|---------------|---------------|
| 26        | 16 J-55    | 75             | 0        | 62          |                      |                            |                     |               |               |
| 12.25     | 8.625 J-55 | 24             | 0        | 526         |                      | G 350                      | 72                  | 0             |               |
| 7.875     | 5.5 J-55   | 15.5           | 0        | 6,297       |                      | G 910                      | 280                 | 0 CBL         |               |
|           |            |                |          |             |                      |                            |                     |               |               |
|           |            |                |          |             |                      |                            |                     |               |               |

25. TUBING RECORD

| SIZE  | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|-------|----------------|-----------------|------|----------------|-----------------|------|----------------|-----------------|
| 2.875 | 6,066          |                 |      |                |                 |      |                |                 |

| 26. PRODUCING INTERVALS |          |             |           |              | 27. PERFORATION RECORD  |      |           |  |                                   |
|-------------------------|----------|-------------|-----------|--------------|-------------------------|------|-----------|--|-----------------------------------|
| FORMATION NAME          | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) | INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS                       |                                   |
| (A) Green River         | 3,869    | 6,029       | 3,852     | 6,012        | 3,869 6,029             | 0.42 | 680       | Open <input checked="" type="checkbox"/> | Squeezed <input type="checkbox"/> |
| (B)                     |          |             |           |              |                         |      |           | Open <input type="checkbox"/>            | Squeezed <input type="checkbox"/> |
| (C)                     |          |             |           |              |                         |      |           | Open <input type="checkbox"/>            | Squeezed <input type="checkbox"/> |
| (D)                     |          |             |           |              |                         |      |           | Open <input type="checkbox"/>            | Squeezed <input type="checkbox"/> |

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL  |
|----------------|--|
| 3,869'-5705'   | 4143 Bbls of Dyna HT 25 15# gelled fluid containing 289,998#'s of 20/40 Mesh Sand. |
| 5,919'-6,029'  | 993 Bbls of 15% Hcl gelled acid with 133 Bbls fresh water over flush.              |

|  |                                    |
|--|------------------------------------|
| 29. ENCLOSED ATTACHMENTS:<br><input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS<br><input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION<br><input type="checkbox"/> GEOLOGIC REPORT<br><input type="checkbox"/> CORE ANALYSIS<br><input type="checkbox"/> DST REPORT<br><input type="checkbox"/> OTHER: <u>UDOGM Form 7</u> | 30. WELL STATUS:<br><br><b>POW</b> |
|--|------------------------------------|

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

|                                   |                    |                         |                      |                     |                      |                           |                   |                  |                    |                           |
|-----------------------------------|--------------------|-------------------------|----------------------|---------------------|----------------------|---------------------------|-------------------|------------------|--------------------|---------------------------|
| DATE FIRST PRODUCED:<br>3/30/2013 |                    | TEST DATE:<br>4/23/2013 |                      | HOURS TESTED:<br>24 |                      | TEST PRODUCTION RATES: →  | OIL – BBL:<br>117 | GAS – MCF:<br>16 | WATER – BBL:<br>49 | PROD. METHOD:<br>Rod Pump |
| CHOKE SIZE:<br>32/64              | TBG. PRESS.<br>400 | CSG. PRESS.<br>380      | API GRAVITY<br>41.50 | BTU – GAS<br>1      | GAS/OIL RATIO<br>137 | 24 HR PRODUCTION RATES: → | OIL – BBL:<br>117 | GAS – MCF:<br>16 | WATER – BBL:<br>49 | INTERVAL STATUS:<br>Open  |

INTERVAL B (As shown in item #26)

|                      |             |             |             |               |               |                           |            |            |              |                  |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: |             | TEST DATE:  |             | HOURS TESTED: |               | TEST PRODUCTION RATES: →  | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD:    |
| CHOKE SIZE:          | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS     | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

INTERVAL C (As shown in item #26)

|                      |             |             |             |               |               |                           |            |            |              |                  |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: |             | TEST DATE:  |             | HOURS TESTED: |               | TEST PRODUCTION RATES: →  | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD:    |
| CHOKE SIZE:          | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS     | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

INTERVAL D (As shown in item #26)

|                      |             |             |             |               |               |                           |            |            |              |                  |
|----------------------|-------------|-------------|-------------|---------------|---------------|---------------------------|------------|------------|--------------|------------------|
| DATE FIRST PRODUCED: |             | TEST DATE:  |             | HOURS TESTED: |               | TEST PRODUCTION RATES: →  | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD:    |
| CHOKE SIZE:          | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS     | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used For Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name          | Top (Measured Depth) |
|-----------|----------|-------------|------------------------------|---------------|----------------------|
|           |          |             |                              | Mahogany      | 2,793                |
|           |          |             |                              | Garden Gulch  | 3,520                |
|           |          |             |                              | B Marker      | 3,929                |
|           |          |             |                              | X Marker      | 4,428                |
|           |          |             |                              | Y Marker      | 4,461                |
|           |          |             |                              | Douglas Creek | 4,570                |
|           |          |             |                              | B Lime        | 4,975                |
|           |          |             |                              | Castle Peak   | 5,509                |
|           |          |             |                              | Basal Carb    | 5,918                |
|           |          |             |                              | Wasatch       | 6,191                |

35. ADDITIONAL REMARKS (Include plugging procedure)

All Frac and Perf info is condensed. Please see NOI and Subsequent Frac Sundry for detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist  
 SIGNATURE  DATE 5/3/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801



**Job Number:** UT131002  
**Company:** Petroglyph  
**Lease/Well:** Ute Tribal\_01-14-E4  
**Location:** Sec. 1, T5S, R4W  
**Rig Name:** Aztec #673  
**RKB:** 6040'  
**G.L. or M.S.L.:** GL-6025'

**State/Country:** Utah/USA  
**Declination:** 11.21  
**Grid:** True  
**File name:** C:\WINSERVE\UT131002.SVY  
**Date/Time:** 23-Jan-13 / 04:20  
**Curve Name:** Ute Tribal\_01-14-E4\_Actual

**Payzone Directional**

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 81.20  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | Distance FT | CLOSURE Direction Deg | Dogleg Severity Deg/100 |
|-------------------|----------------|---------------------|---------------------|--------|--------|---------------------|-------------|-----------------------|-------------------------|
| 556.00            | .00            | .00                 | 555.98              | -3.95  | -2.08  | -2.66               | 4.46        | 207.81                | .00                     |
| 679.00            | .92            | 207.81              | 678.96              | -5.17  | -1.35  | -2.12               | 5.34        | 194.61                | .17                     |
| 801.00            | 1.16           | 106.03              | 800.87              | -5.25  | 3.25   | 2.41                | 6.17        | 148.27                | 1.32                    |
| 924.00            | 3.21           | 85.70               | 923.55              | -4.09  | 12.02  | 11.25               | 12.70       | 108.81                | 1.77                    |
|                   | 5.05           | 80.46               |                     |        |        |                     |             |                       | 1.53                    |
| 1048.00           | 5.93           | 83.89               | 1046.98             | -2.51  | 23.77  | 23.11               | 23.90       | 96.02                 | .76                     |
| 1172.00           | 6.15           | 83.31               | 1170.29             | -1.05  | 36.74  | 36.14               | 36.75       | 91.64                 | .18                     |
| 1296.00           | 7.03           | 82.92               | 1293.47             | .66    | 50.87  | 50.37               | 50.87       | 89.26                 | .71                     |
| 1420.00           | 6.81           | 83.53               | 1416.56             | 2.42   | 65.70  | 65.30               | 65.75       | 87.89                 | .19                     |
| 1545.00           | 6.15           | 82.83               | 1540.76             | 4.09   | 79.71  | 79.40               | 79.81       | 87.06                 | .53                     |

| Measured Depth<br>FT | Incl Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | CLOSURE<br>Distance<br>FT | Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|----------------------|-------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|---------------------------|------------------|-------------------------------|
| 1669.00              | 6.14              | 78.65                     | 1664.05                   | 6.22      | 92.80     | 92.66                     | 93.01                     | 86.16            | .36                           |
| 1793.00              | 6.69              | 75.92                     | 1787.28                   | 9.29      | 106.31    | 106.48                    | 106.71                    | 85.01            | .51                           |
| 1917.00              | 5.90              | 69.43                     | 1910.53                   | 13.28     | 119.28    | 119.91                    | 120.02                    | 83.65            | .86                           |
| 2041.00              | 6.46              | 72.72                     | 2033.81                   | 17.59     | 131.91    | 133.05                    | 133.08                    | 82.40            | .53                           |
| 2164.00              | 5.80              | 69.21                     | 2156.10                   | 21.86     | 144.33    | 145.97                    | 145.97                    | 81.39            | .62                           |
| 2288.00              | 6.33              | 69.65                     | 2279.41                   | 26.46     | 156.59    | 158.80                    | 158.81                    | 80.41            | .43                           |
| 2413.00              | 6.06              | 76.11                     | 2403.68                   | 30.44     | 169.46    | 172.12                    | 172.17                    | 79.82            | .60                           |
| 2537.00              | 6.37              | 80.63                     | 2526.95                   | 33.13     | 182.60    | 185.52                    | 185.58                    | 79.72            | .47                           |
| 2662.00              | 5.90              | 76.72                     | 2651.24                   | 35.73     | 195.69    | 198.86                    | 198.93                    | 79.65            | .50                           |
| 2786.00              | 6.00              | 82.17                     | 2774.57                   | 38.08     | 208.32    | 211.69                    | 211.77                    | 79.64            | .46                           |
| 2911.00              | 6.72              | 83.36                     | 2898.80                   | 39.82     | 222.05    | 225.53                    | 225.60                    | 79.83            | .59                           |
| 3035.00              | 5.93              | 81.73                     | 3022.05                   | 41.58     | 235.60    | 239.19                    | 239.24                    | 79.99            | .65                           |
| 3159.00              | 7.08              | 83.36                     | 3145.24                   | 43.38     | 249.53    | 253.23                    | 253.27                    | 80.14            | .94                           |
| 3283.00              | 7.16              | 80.81                     | 3268.29                   | 45.50     | 264.75    | 268.59                    | 268.63                    | 80.25            | .26                           |
| 3407.00              | 6.46              | 88.41                     | 3391.42                   | 46.93     | 279.35    | 283.24                    | 283.27                    | 80.46            | .92                           |
| 3531.00              | 4.34              | 90.21                     | 3514.86                   | 47.10     | 291.02    | 294.80                    | 294.80                    | 80.81            | 1.71                          |
| 3655.00              | 3.69              | 88.76                     | 3638.55                   | 47.17     | 299.70    | 303.39                    | 303.39                    | 81.05            | .53                           |
| 3779.00              | 2.29              | 86.08                     | 3762.38                   | 47.43     | 306.16    | 309.81                    | 309.81                    | 81.19            | 1.13                          |
| 3903.00              | 1.69              | 93.20                     | 3886.31                   | 47.50     | 310.46    | 314.07                    | 314.07                    | 81.30            | .52                           |
| 4027.00              | 1.01              | 172.94                    | 4010.28                   | 46.31     | 312.42    | 315.82                    | 315.83                    | 81.57            | 1.46                          |
| 4152.00              | .31               | 282.69                    | 4135.27                   | 45.29     | 312.22    | 315.48                    | 315.49                    | 81.75            | .92                           |
| 4276.00              | .66               | 275.44                    | 4259.27                   | 45.43     | 311.18    | 314.47                    | 314.48                    | 81.69            | .29                           |
| 4400.00              | .66               | 262.04                    | 4383.26                   | 45.40     | 309.77    | 313.06                    | 313.08                    | 81.66            | .12                           |
| 4524.00              | .75               | 235.67                    | 4507.25                   | 44.84     | 308.39    | 311.62                    | 311.63                    | 81.73            | .27                           |
| 4648.00              | .97               | 223.37                    | 4631.24                   | 43.62     | 307.00    | 310.06                    | 310.08                    | 81.91            | .23                           |
| 4772.00              | .26               | 325.23                    | 4755.23                   | 43.09     | 306.12    | 309.10                    | 309.13                    | 81.99            | .85                           |
| 4896.00              | .18               | 252.64                    | 4879.23                   | 43.26     | 305.77    | 308.79                    | 308.82                    | 81.95            | .22                           |
| 5020.00              | .35               | 220.86                    | 5003.23                   | 42.92     | 305.34    | 308.31                    | 308.34                    | 82.00            | .18                           |
| 5144.00              | .57               | 219.59                    | 5127.23                   | 42.16     | 304.70    | 307.56                    | 307.60                    | 82.12            | .18                           |
| 5268.00              | .83               | 199.77                    | 5251.22                   | 40.84     | 304.00    | 306.67                    | 306.73                    | 82.35            | .28                           |

| Measured Depth<br>FT  | Incl Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | CLOSURE<br>Distance<br>FT | Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-----------------------|-------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|---------------------------|------------------|-------------------------------|
| 5391.00               | .31               | 21.88                     | 5374.21                   | 40.31     | 303.82    | 306.41                    | 306.48                    | 82.44            | .93                           |
| 5515.00               | .66               | 331.52                    | 5498.21                   | 41.25     | 303.61    | 306.34                    | 306.39                    | 82.26            | .42                           |
| 5639.00               | .57               | 314.20                    | 5622.20                   | 42.30     | 302.82    | 305.73                    | 305.76                    | 82.05            | .17                           |
| 5763.00               | .53               | 280.67                    | 5746.20                   | 42.84     | 301.82    | 304.82                    | 304.84                    | 81.92            | .26                           |
| 5887.00               | .57               | 258.83                    | 5870.19                   | 42.83     | 300.65    | 303.66                    | 303.68                    | 81.89            | .17                           |
| 6011.00               | .70               | 245.69                    | 5994.18                   | 42.40     | 299.35    | 302.32                    | 302.34                    | 81.94            | .16                           |
| 6135.00               | 1.01              | 238.05                    | 6118.17                   | 41.51     | 297.74    | 300.58                    | 300.61                    | 82.06            | .27                           |
| 6243.00               | .97               | 232.38                    | 6226.15                   | 40.44     | 296.20    | 298.90                    | 298.95                    | 82.22            | .10                           |
| <b>Project to Bit</b> |                   |                           |                           |           |           |                           |                           |                  |                               |
| 6305.00               | .97               | 232.38                    | 6288.14                   | 39.80     | 295.37    | 297.98                    | 298.04                    | 82.33            | .00                           |

Job Number: UT131002  
Company: Petroglyph  
Lease/Well: Ute Tribal 01-14-E4  
Location: Sec. 1, T5S, R4W  
Rig Name: Aztec #673  
State/Country: Utah/USA

