

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 04-051   |                              |          |       |        |
|--|-----------|------------------|---|---|--|--|------------------------------|----------|-------|--------|
| 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>ANTELOPE CREEK  |                              |          |       |        |
| 4. TYPE OF WELL<br>Oil Well Coalbed Methane Well: NO   |           |                  |   |   |  | 5. UNIT or COMMUNITIZATION AGREEMENT NAME<br>ANTELOPE CREEK  |                              |          |       |        |
| 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, Boise, ID, 83703   |           |                  |   |   |  | 9. OPERATOR E-MAIL<br>ppowell@pgei.com   |                              |          |       |        |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)<br>1420H623503  |           |                  | 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 checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> |                              |          |       |        |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee')  |           |                  |   |   |  | 14. SURFACE OWNER PHONE (if box 12 = 'fee')  |                              |          |       |        |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')   |           |                  |   |   |  | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee')   |                              |          |       |        |
| 17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')<br>Ute Indian Tribe   |           |                  | 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  |           | 2788 FNL 635 FWL |   | SWNW  | 4  | 5.0 S  | 3.0 W                        | U        |       |        |
| Top of Uppermost Producing Zone  |           | 3212 FNL 130 FWL |   | SWNW  | 4  | 5.0 S  | 3.0 W                        | U        |       |        |
| At Total Depth   |           | 3212 FNL 130 FWL |   | SWNW  | 4  | 5.0 S  | 3.0 W                        | U        |       |        |
| 21. COUNTY<br>DUCHESNE   |           |                  | 22. DISTANCE TO NEAREST LEASE LINE (Feet)<br>635  |   |  | 23. NUMBER OF ACRES IN DRILLING UNIT<br>727  |                              |          |       |        |
| 27. ELEVATION - GROUND LEVEL<br>5997   |           |                  | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)<br>68   |   |  | 26. PROPOSED DEPTH<br>MD: 6609 TVD: 6540   |                              |          |       |        |
| 28. BOND NUMBER<br>LPM4138336  |           |                  | 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 - 53  | 5.0   | Unknown  | 10.0   | Class G                      | 25       | 1.17  | 15.8   |
| Surf   | 12.25     | 8.625            | 0 - 493   | 24.0  | J-55 ST&C  | 10.0   | Class G                      | 226      | 1.17  | 15.8   |
| Prod   | 7.875     | 5.5              | 0 - 6609  | 15.5  | J-55 LT&C  | 10.0   | Class G                      | 490      | 1.92  | 12.5   |
|  |           |                  |   |   |  |  | Class G                      | 375      | 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 10/31/2013   |  |  | EMAIL edtrotter@easilink.com |          |       |        |
| API NUMBER ASSIGNED<br>43013526190000  |           |                  |   | APPROVAL<br><br><br>Permit Manager |  |  |                              |          |       |        |

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 04-05i**  
**SW NW, SEC 4, T5S, R3W**  
**DUCHESNE COUNTY, UTAH**

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

| Formation                  |                             | Subsea | TVD  | MD   |
|----------------------------|-----------------------------|--------|------|------|
| Rig KB~13' above GGL       |                             | 6010   | 0    | 0    |
| Surface Formation = Uinta  |                             |        |      |      |
| Uinta                      |                             | 5997   | 13   | 13   |
| Green River                |                             | 4546   | 1464 | 1469 |
| Trona                      |                             | 3150   | 2860 | 2907 |
| Mahogany Shale             |                             | 3020   | 2990 | 3041 |
| "B" Marker                 | Waterflood<br>Unit Interval | 1900   | 4110 | 4178 |
| "X" Marker                 |                             | 1411   | 4599 | 4668 |
| Douglas Creek Marker       |                             | 1270   | 4740 | 4809 |
| "B" Limestone              |                             | 890    | 5120 | 5189 |
| Base Castle Peak Limestone |                             | 298    | 5712 | 5781 |
| BSCARB                     |                             | -98    | 6108 | 6177 |
| Wasatch                    |                             | -372   | 6382 | 6451 |
| Formation at TD: Wasatch   | Rig TD                      | -530   | 6540 | 6609 |

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

| Substance                               | Formation     | Subsea | TVD  | MD   |
|---|---------------|--------|------|------|
| Base of moderately saline ground water* | Uinta         | 5800   | 210  | 210  |
| Oil/Gas                                 | Douglas Creek | 1270   | 4740 | 4809 |
| Oil/Gas                                 | Castle Peak   | 298    | 5712 | 5781 |

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



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**3. PROPOSED CASING PROGRAM:**

| String     | Hole    | Casing | Top - MD | Bottom - MD | Weight lb/ft | Grade  | Thread |
|------------|---------|--------|----------|-------------|--------------|--------|--------|
| Conductor  | 20"     | 14"    | surface  | 53'         | steel        | Cond'r | none   |
| Surface    | 12-1/4" | 8-5/8" | surface  | 493'        | 24           | J-55   | STC    |
| Production | 7-7/8"  | 5-1/2" | surface  | 6609'       | 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 4178'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>53      | Construction Grade Cement   | Sufficient volumes to grout Conductor |        |              |                             |
| Surface         | 0<br>493     | Class G +2% CaCl <sub>2</sub><br>+0.25 lb/sk Cello Flake                                    | 226<br>264                            | 30%    | 15.8         | 1.17                        |
| Production Lead | 0<br>4178    | EXPANDACEM (Class G +additives)<br>+ 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM) | 490<br>941                            | 30%    | 12.5         | 1.92                        |
| Production Tail | 4178<br>6609 | EXPANDACEM (Class G +additives)<br>+ 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM) | 375<br>548                            | 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 2907'MD.



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**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 493'. 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.



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**B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 493' to 6609'. 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. Operator does not plan on using a gas detector on the mud return due to the fact that any abnormal pressure is the result of offset water injection.

**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.

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**7. EVALUATION PROGRAM:**

|          |   |   |
|----------|---|---|
| Logs:    | Triple Combo  | TD to base of surface casing (AIT, DSN, CDL)<br>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 1652 PSI (0.25 PSI/ft gradient).
- This well is in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient (2862 PSI).

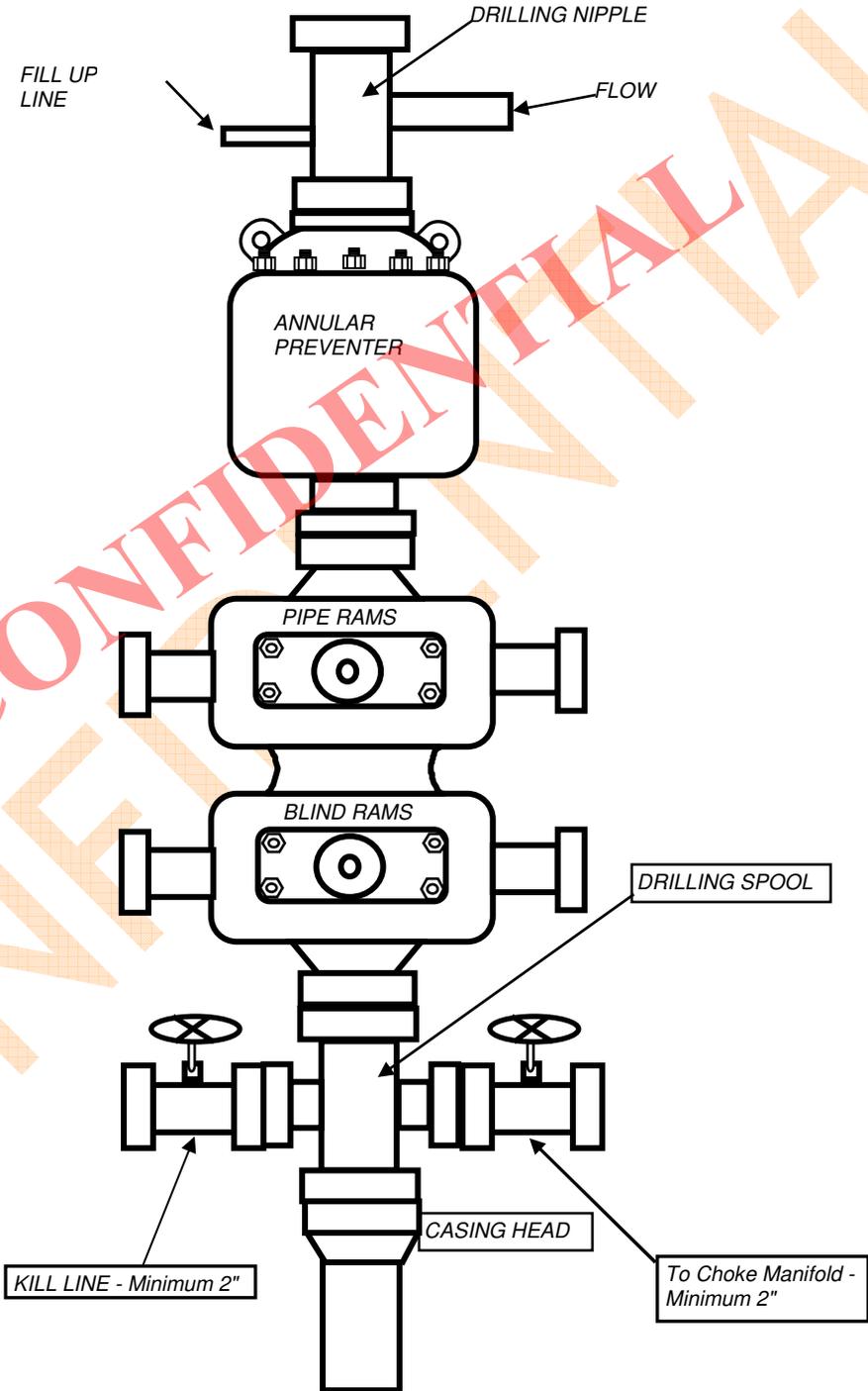
**9. DIRECTIONAL WELL PLAN:**

- 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 4178' to 6177', 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.

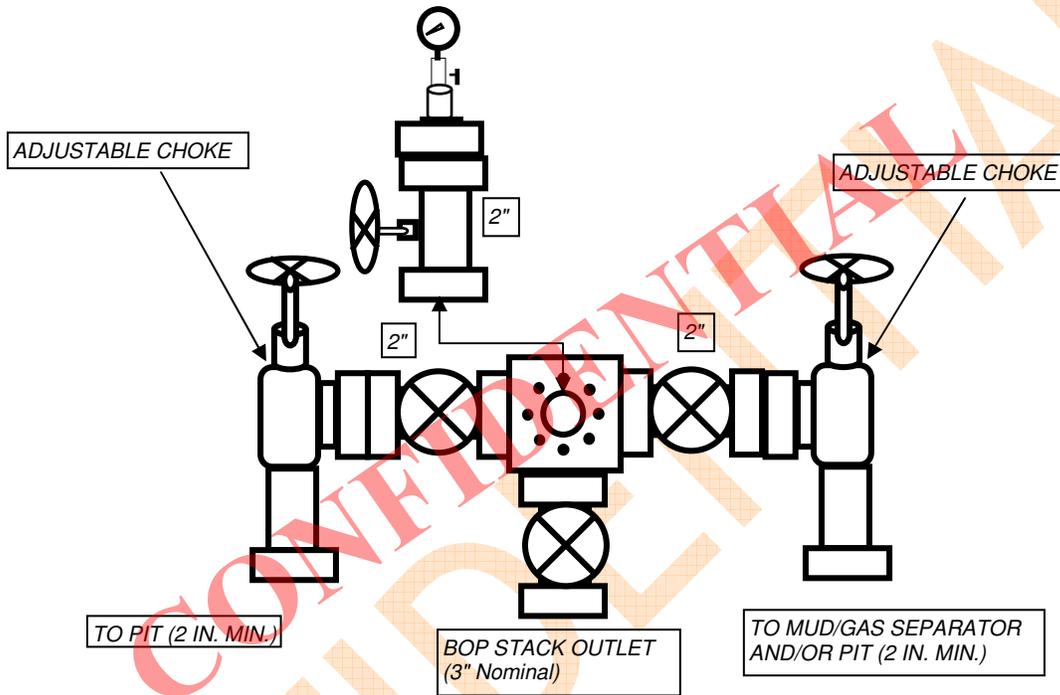


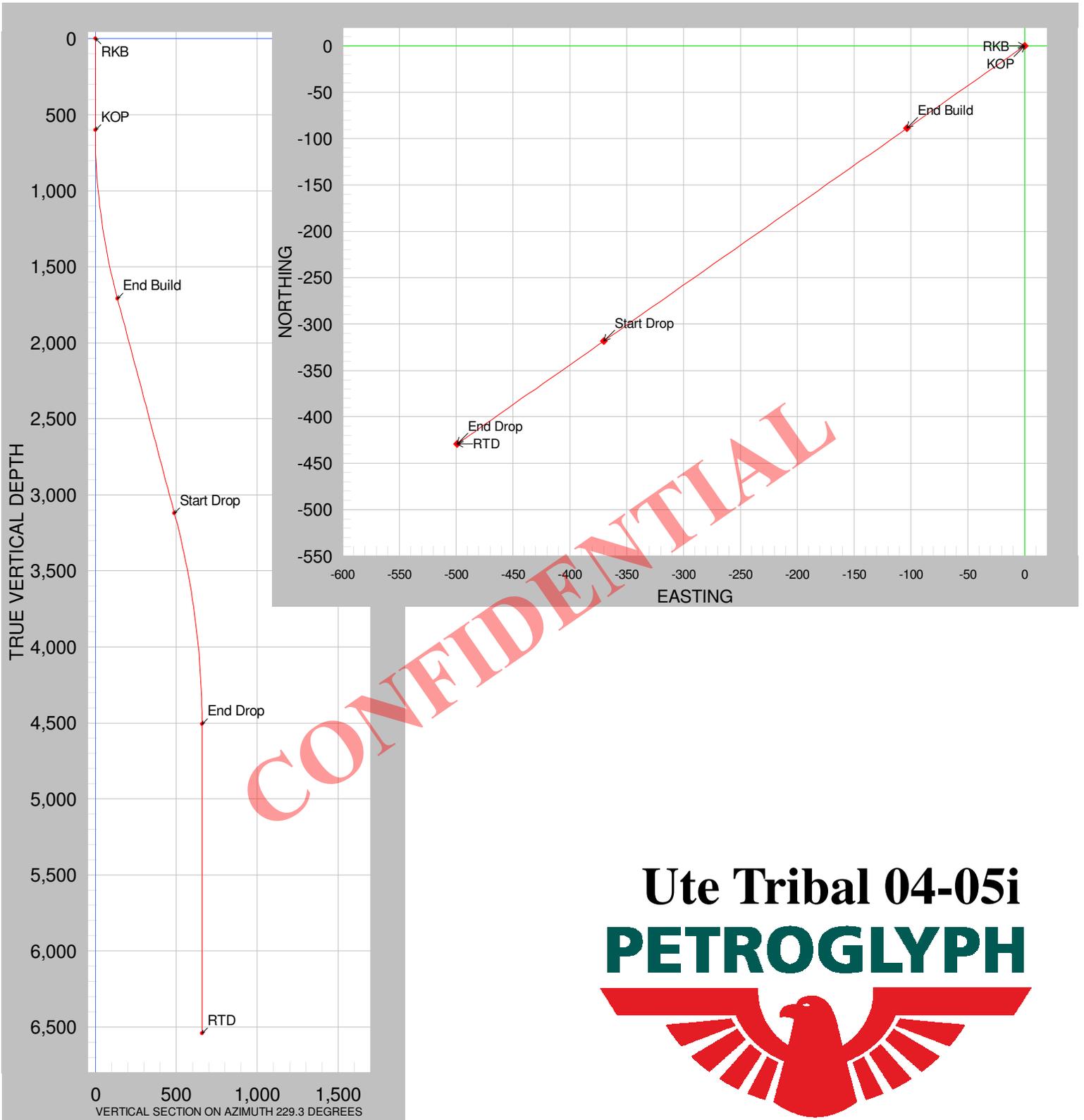
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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**DUCHESNE COUNTY, UTAH**  
**TYPICAL 2,000 p.s.i. CHOKE MANIFOLD**





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## Ute Tribal 04-05i **PETROGLYPH**



| # | 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     | 1720.00 | 14.00 | 229.30 | 1708.89 | -88.79  | -103.22 | 1.25 | 136.15 |
| 3 | Start Drop | Tangent   | 3175.00 | 14.00 | 229.30 | 3120.67 | -318.32 | -370.08 | 0.00 | 488.15 |
| 4 | End Drop   | Drop      | 4575.00 | 0.00  | 0.00   | 4506.78 | -429.30 | -499.11 | 1.00 | 658.34 |
| 5 | RTD        | Vertical  | 6609.00 | 0.00  | 0.00   | 6540.78 | -429.30 | -499.11 | 0.00 | 658.34 |

### 04-05i, Plan 1

|                         |                           |  |
|-------------------------|---------------------------|--|
| <b>Operator</b>         | <b>Units</b> feet, %100ft | 13:53 Monday, October 28, 2013 Page 1 of 5         |
| <b>Field</b>            | <b>County</b> Duchesne    | <b>Vertical Section Azimuth</b> 229.3              |
| <b>Well Name</b> 04-05i | <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>    | SHL: 2788' FNL & 635' FWL BHL: 3212' FNL & 130' FWL | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>        |   | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>   | <b>UWI</b>  | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b> | <b>API</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  | 229.3 | 650.00  | -0.18  | -0.21  | 1.25   | 0.27   |       |       |         |
| 700.00                   | 1.25  | 229.3 | 699.99  | -0.71  | -0.83  | 1.25   | 1.09   |       |       |         |
| 750.00                   | 1.88  | 229.3 | 749.97  | -1.60  | -1.86  | 1.25   | 2.45   |       |       |         |
| 800.00                   | 2.50  | 229.3 | 799.94  | -2.84  | -3.31  | 1.25   | 4.36   |       |       |         |
| 850.00                   | 3.13  | 229.3 | 849.88  | -4.44  | -5.17  | 1.25   | 6.82   |       |       |         |
| 900.00                   | 3.75  | 229.3 | 899.79  | -6.40  | -7.44  | 1.25   | 9.81   |       |       |         |
| 950.00                   | 4.38  | 229.3 | 949.66  | -8.71  | -10.13 | 1.25   | 13.36  |       |       |         |
| 1000.00                  | 5.00  | 229.3 | 999.49  | -11.37 | -13.22 | 1.25   | 17.44  |       |       |         |
| 1050.00                  | 5.63  | 229.3 | 1049.28 | -14.39 | -16.73 | 1.25   | 22.07  |       |       |         |
| 1100.00                  | 6.25  | 229.3 | 1099.01 | -17.77 | -20.65 | 1.25   | 27.24  |       |       |         |
| 1150.00                  | 6.88  | 229.3 | 1148.68 | -21.49 | -24.99 | 1.25   | 32.96  |       |       |         |
| 1200.00                  | 7.50  | 229.3 | 1198.29 | -25.57 | -29.73 | 1.25   | 39.21  |       |       |         |
| 1250.00                  | 8.13  | 229.3 | 1247.82 | -30.00 | -34.88 | 1.25   | 46.01  |       |       |         |
| 1300.00                  | 8.75  | 229.3 | 1297.28 | -34.79 | -40.44 | 1.25   | 53.35  |       |       |         |
| 1350.00                  | 9.38  | 229.3 | 1346.66 | -39.92 | -46.41 | 1.25   | 61.22  |       |       |         |
| 1400.00                  | 10.00 | 229.3 | 1395.94 | -45.41 | -52.79 | 1.25   | 69.64  |       |       |         |
| 1450.00                  | 10.63 | 229.3 | 1445.14 | -51.25 | -59.58 | 1.25   | 78.59  |       |       |         |
| 1500.00                  | 11.25 | 229.3 | 1494.23 | -57.43 | -66.77 | 1.25   | 88.07  |       |       |         |
| 1550.00                  | 11.88 | 229.3 | 1543.21 | -63.97 | -74.37 | 1.25   | 98.10  |       |       |         |
| 1600.00                  | 12.50 | 229.3 | 1592.09 | -70.85 | -82.37 | 1.25   | 108.65 |       |       |         |
| 1650.00                  | 13.13 | 229.3 | 1640.84 | -78.08 | -90.78 | 1.25   | 119.74 |       |       |         |

### 04-05i, Plan 1

|                  |        |                |              |  |  |
|------------------|--------|----------------|--------------|--|--|
| <b>Operator</b>  |        | <b>Units</b>   | feet, %100ft | 13:53 Monday, October 28, 2013 Page 2 of 5         |  |
| <b>Field</b>     |        | <b>County</b>  | Duchesne     | <b>Vertical Section Azimuth</b> 229.3              |  |
| <b>Well Name</b> | 04-05i | <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>    | SHL: 2788' FNL & 635' FWL BHL: 3212' FNL & 130' FWL |            | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>        |   |            | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>   |   | <b>UWI</b> | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b> |   | <b>API</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      |
| 1700.00                          | 13.75 | 229.3 | 1689.47 | -85.66  | -99.59  | 1.25   | 131.36 |       |       |         |
| *** END BUILD (at MD = 1720.00)  |       |       |         |         |         |        |        |       |       |         |
| 1720.00                          | 14.00 | 229.3 | 1708.89 | -88.79  | -103.22 | 1.25   | 136.15 |       |       |         |
| 1750.00                          | 14.00 | 229.3 | 1738.00 | -93.52  | -108.73 | 0.00   | 143.41 |       |       |         |
| 1800.00                          | 14.00 | 229.3 | 1786.51 | -101.41 | -117.90 | 0.00   | 155.51 |       |       |         |
| 1850.00                          | 14.00 | 229.3 | 1835.03 | -109.29 | -127.07 | 0.00   | 167.60 |       |       |         |
| 1900.00                          | 14.00 | 229.3 | 1883.54 | -117.18 | -136.24 | 0.00   | 179.70 |       |       |         |
| 1950.00                          | 14.00 | 229.3 | 1932.06 | -125.07 | -145.41 | 0.00   | 191.80 |       |       |         |
| 2000.00                          | 14.00 | 229.3 | 1980.57 | -132.96 | -154.58 | 0.00   | 203.89 |       |       |         |
| 2050.00                          | 14.00 | 229.3 | 2029.09 | -140.85 | -163.75 | 0.00   | 215.99 |       |       |         |
| 2100.00                          | 14.00 | 229.3 | 2077.60 | -148.73 | -172.92 | 0.00   | 228.08 |       |       |         |
| 2150.00                          | 14.00 | 229.3 | 2126.12 | -156.62 | -182.09 | 0.00   | 240.18 |       |       |         |
| 2200.00                          | 14.00 | 229.3 | 2174.63 | -164.51 | -191.26 | 0.00   | 252.28 |       |       |         |
| 2250.00                          | 14.00 | 229.3 | 2223.15 | -172.40 | -200.43 | 0.00   | 264.37 |       |       |         |
| 2300.00                          | 14.00 | 229.3 | 2271.66 | -180.29 | -209.60 | 0.00   | 276.47 |       |       |         |
| 2350.00                          | 14.00 | 229.3 | 2320.17 | -188.17 | -218.77 | 0.00   | 288.57 |       |       |         |
| 2400.00                          | 14.00 | 229.3 | 2368.69 | -196.06 | -227.94 | 0.00   | 300.66 |       |       |         |
| 2450.00                          | 14.00 | 229.3 | 2417.20 | -203.95 | -237.11 | 0.00   | 312.76 |       |       |         |
| 2500.00                          | 14.00 | 229.3 | 2465.72 | -211.84 | -246.28 | 0.00   | 324.85 |       |       |         |
| 2550.00                          | 14.00 | 229.3 | 2514.23 | -219.72 | -255.45 | 0.00   | 336.95 |       |       |         |
| 2600.00                          | 14.00 | 229.3 | 2562.75 | -227.61 | -264.62 | 0.00   | 349.05 |       |       |         |
| 2650.00                          | 14.00 | 229.3 | 2611.26 | -235.50 | -273.79 | 0.00   | 361.14 |       |       |         |
| 2700.00                          | 14.00 | 229.3 | 2659.78 | -243.39 | -282.96 | 0.00   | 373.24 |       |       |         |
| 2750.00                          | 14.00 | 229.3 | 2708.29 | -251.28 | -292.13 | 0.00   | 385.33 |       |       |         |
| 2800.00                          | 14.00 | 229.3 | 2756.81 | -259.16 | -301.31 | 0.00   | 397.43 |       |       |         |
| 2850.00                          | 14.00 | 229.3 | 2805.32 | -267.05 | -310.48 | 0.00   | 409.53 |       |       |         |
| 2900.00                          | 14.00 | 229.3 | 2853.84 | -274.94 | -319.65 | 0.00   | 421.62 |       |       |         |
| 2950.00                          | 14.00 | 229.3 | 2902.35 | -282.83 | -328.82 | 0.00   | 433.72 |       |       |         |
| 3000.00                          | 14.00 | 229.3 | 2950.87 | -290.71 | -337.99 | 0.00   | 445.81 |       |       |         |
| 3050.00                          | 14.00 | 229.3 | 2999.38 | -298.60 | -347.16 | 0.00   | 457.91 |       |       |         |
| 3100.00                          | 14.00 | 229.3 | 3047.90 | -306.49 | -356.33 | 0.00   | 470.01 |       |       |         |
| 3150.00                          | 14.00 | 229.3 | 3096.41 | -314.38 | -365.50 | 0.00   | 482.10 |       |       |         |
| *** START DROP (at MD = 3175.00) |       |       |         |         |         |        |        |       |       |         |
| 3175.00                          | 14.00 | 229.3 | 3120.67 | -318.32 | -370.08 | 0.00   | 488.15 |       |       |         |
| 3200.00                          | 13.75 | 229.3 | 3144.94 | -322.23 | -374.63 | 1.00   | 494.15 |       |       |         |

### 04-05i, Plan 1

|                         |                            |  |             |
|-------------------------|----------------------------|--|-------------|
| <b>Operator</b>         | <b>Units</b> feet, %/100ft | 13:53 Monday, October 28, 2013                     | Page 3 of 5 |
| <b>Field</b>            | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 229.3              |             |
| <b>Well Name</b> 04-05i | <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>    | SHL: 2788' FNL & 635' FWL BHL: 3212' FNL & 130' FWL | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>        |   | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>   | <b>UWI</b>  | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b> | <b>API</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      |
| 3250.00                        | 13.25 | 229.3 | 3193.56 | -329.84 | -383.48 | 1.00    | 505.82 |       |       |         |
| 3300.00                        | 12.75 | 229.3 | 3242.28 | -337.18 | -392.01 | 1.00    | 517.07 |       |       |         |
| 3350.00                        | 12.25 | 229.3 | 3291.09 | -344.23 | -400.21 | 1.00    | 527.89 |       |       |         |
| 3400.00                        | 11.75 | 229.3 | 3340.00 | -351.01 | -408.09 | 1.00    | 538.28 |       |       |         |
| 3450.00                        | 11.25 | 229.3 | 3388.99 | -357.51 | -415.65 | 1.00    | 548.25 |       |       |         |
| 3500.00                        | 10.75 | 229.3 | 3438.07 | -363.74 | -422.88 | 1.00    | 557.79 |       |       |         |
| 3550.00                        | 10.25 | 229.3 | 3487.24 | -369.68 | -429.79 | 1.00    | 566.90 |       |       |         |
| 3600.00                        | 9.75  | 229.3 | 3536.48 | -375.34 | -436.37 | 1.00    | 575.59 |       |       |         |
| 3650.00                        | 9.25  | 229.3 | 3585.79 | -380.72 | -442.63 | 1.00    | 583.84 |       |       |         |
| 3700.00                        | 8.75  | 229.3 | 3635.18 | -385.82 | -448.56 | 1.00    | 591.66 |       |       |         |
| 3750.00                        | 8.25  | 229.3 | 3684.63 | -390.64 | -454.16 | 1.00    | 599.05 |       |       |         |
| 3800.00                        | 7.75  | 229.3 | 3734.14 | -395.18 | -459.44 | 1.00    | 606.01 |       |       |         |
| 3850.00                        | 7.25  | 229.3 | 3783.71 | -399.43 | -464.38 | 1.00    | 612.54 |       |       |         |
| 3900.00                        | 6.75  | 229.3 | 3833.34 | -403.41 | -469.00 | 1.00    | 618.63 |       |       |         |
| 3950.00                        | 6.25  | 229.3 | 3883.02 | -407.10 | -473.29 | 1.00    | 624.29 |       |       |         |
| 4000.00                        | 5.75  | 229.3 | 3932.74 | -410.51 | -477.26 | 1.00    | 629.52 |       |       |         |
| 4050.00                        | 5.25  | 229.3 | 3982.51 | -413.63 | -480.89 | 1.00    | 634.31 |       |       |         |
| 4100.00                        | 4.75  | 229.3 | 4032.32 | -416.47 | -484.19 | 1.00    | 638.67 |       |       |         |
| 4150.00                        | 4.25  | 229.3 | 4082.17 | -419.03 | -487.17 | 1.00    | 642.59 |       |       |         |
| 4200.00                        | 3.75  | 229.3 | 4132.05 | -421.31 | -489.81 | 1.00    | 646.08 |       |       |         |
| 4250.00                        | 3.25  | 229.3 | 4181.95 | -423.30 | -492.13 | 1.00    | 649.13 |       |       |         |
| 4300.00                        | 2.75  | 229.3 | 4231.88 | -425.00 | -494.11 | 1.00    | 651.75 |       |       |         |
| 4350.00                        | 2.25  | 229.3 | 4281.84 | -426.42 | -495.76 | 1.00    | 653.93 |       |       |         |
| 4400.00                        | 1.75  | 229.3 | 4331.81 | -427.56 | -497.09 | 1.00    | 655.67 |       |       |         |
| 4450.00                        | 1.25  | 229.3 | 4381.79 | -428.42 | -498.08 | 1.00    | 656.98 |       |       |         |
| 4500.00                        | 0.75  | 229.3 | 4431.78 | -428.98 | -498.74 | 1.00    | 657.85 |       |       |         |
| 4550.00                        | 0.25  | 229.3 | 4481.78 | -429.27 | -499.07 | 1.00    | 658.29 |       |       |         |
| *** END DROP (at MD = 4575.00) |       |       |         |         |         |         |        |       |       |         |
| 4575.00                        | 0.00  | 0.0   | 4506.78 | -429.30 | -499.11 | 1.00    | 658.34 |       |       |         |
| 4600.00                        | 0.00  | 0.0   | 4531.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4650.00                        | 0.00  | 0.0   | 4581.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4700.00                        | 0.00  | 0.0   | 4631.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4750.00                        | 0.00  | 0.0   | 4681.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4800.00                        | 0.00  | 0.0   | 4731.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4850.00                        | 0.00  | 0.0   | 4781.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |

### 04-05i, Plan 1

|                         |                            |  |             |
|-------------------------|----------------------------|--|-------------|
| <b>Operator</b>         | <b>Units</b> feet, %/100ft | 13:53 Monday, October 28, 2013                     | Page 4 of 5 |
| <b>Field</b>            | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 229.3              |             |
| <b>Well Name</b> 04-05i | <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>    | SHL: 2788' FNL & 635' FWL BHL: 3212' FNL & 130' FWL | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>        |   | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>   | <b>UWI</b>  | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b> | <b>API</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  | 4831.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 4950.00 | 0.00 | 0.0  | 4881.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5000.00 | 0.00 | 0.0  | 4931.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5050.00 | 0.00 | 0.0  | 4981.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5100.00 | 0.00 | 0.0  | 5031.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5150.00 | 0.00 | 0.0  | 5081.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5200.00 | 0.00 | 0.0  | 5131.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5250.00 | 0.00 | 0.0  | 5181.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5300.00 | 0.00 | 0.0  | 5231.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5350.00 | 0.00 | 0.0  | 5281.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5400.00 | 0.00 | 0.0  | 5331.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5450.00 | 0.00 | 0.0  | 5381.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5500.00 | 0.00 | 0.0  | 5431.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5550.00 | 0.00 | 0.0  | 5481.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5600.00 | 0.00 | 0.0  | 5531.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5650.00 | 0.00 | 0.0  | 5581.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5700.00 | 0.00 | 0.0  | 5631.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5750.00 | 0.00 | 0.0  | 5681.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5800.00 | 0.00 | 0.0  | 5731.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5850.00 | 0.00 | 0.0  | 5781.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5900.00 | 0.00 | 0.0  | 5831.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 5950.00 | 0.00 | 0.0  | 5881.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6000.00 | 0.00 | 0.0  | 5931.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6050.00 | 0.00 | 0.0  | 5981.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6100.00 | 0.00 | 0.0  | 6031.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6150.00 | 0.00 | 0.0  | 6081.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6200.00 | 0.00 | 0.0  | 6131.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6250.00 | 0.00 | 0.0  | 6181.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6300.00 | 0.00 | 0.0  | 6231.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6350.00 | 0.00 | 0.0  | 6281.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6400.00 | 0.00 | 0.0  | 6331.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6450.00 | 0.00 | 0.0  | 6381.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6500.00 | 0.00 | 0.0  | 6431.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6550.00 | 0.00 | 0.0  | 6481.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |
| 6600.00 | 0.00 | 0.0  | 6531.78 | -429.30 | -499.11 | 0.00    | 658.34 |       |       |         |

### 04-05i, Plan 1

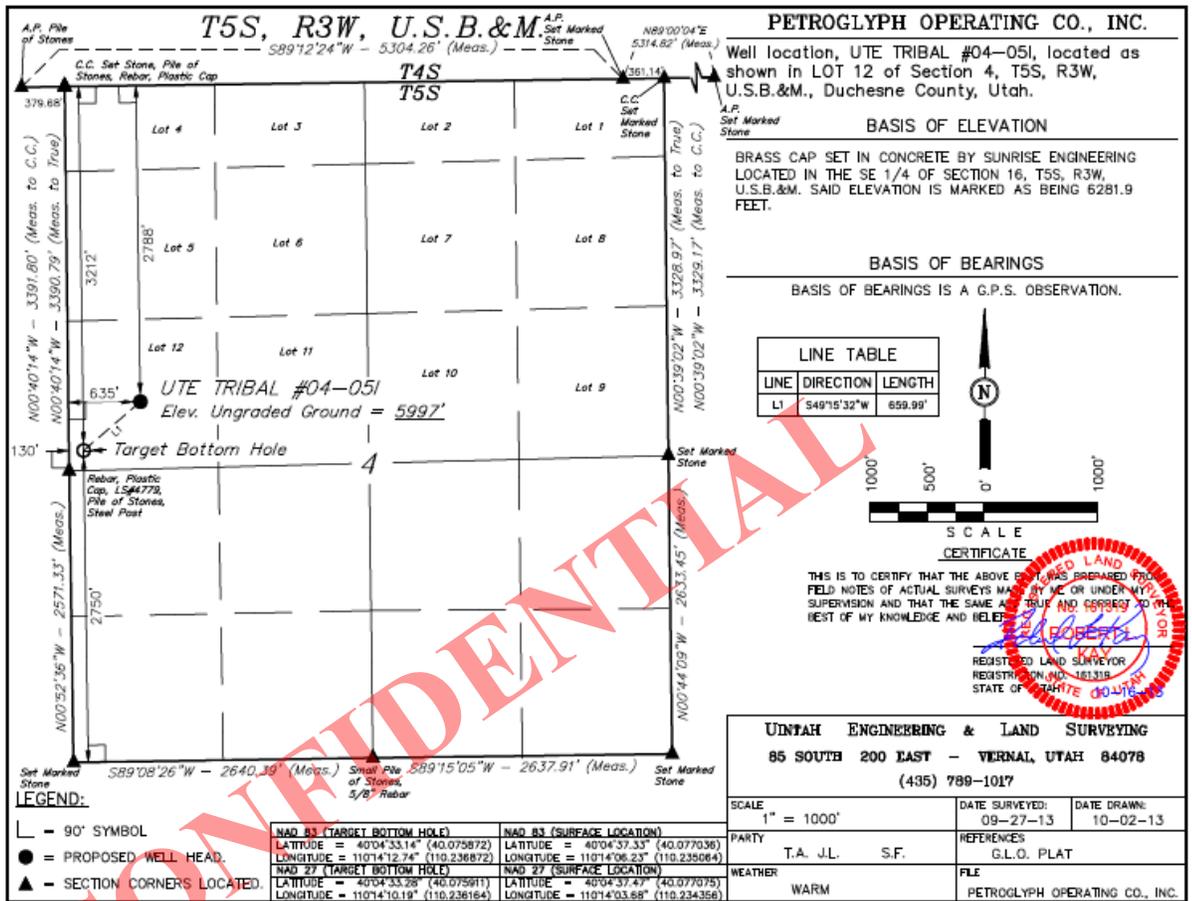
|                         |                            |  |             |
|-------------------------|----------------------------|--|-------------|
| <b>Operator</b>         | <b>Units</b> feet, %/100ft | 13:53 Monday, October 28, 2013                     | Page 5 of 5 |
| <b>Field</b>            | <b>County</b> Duchesne     | <b>Vertical Section Azimuth</b> 229.3              |             |
| <b>Well Name</b> 04-05i | <b>State</b> UT            | <b>Survey Calculation Method</b> Minimum Curvature |             |
| <b>Plan</b> 1           | <b>Country</b> USA         | <b>Database</b> Access                             |             |

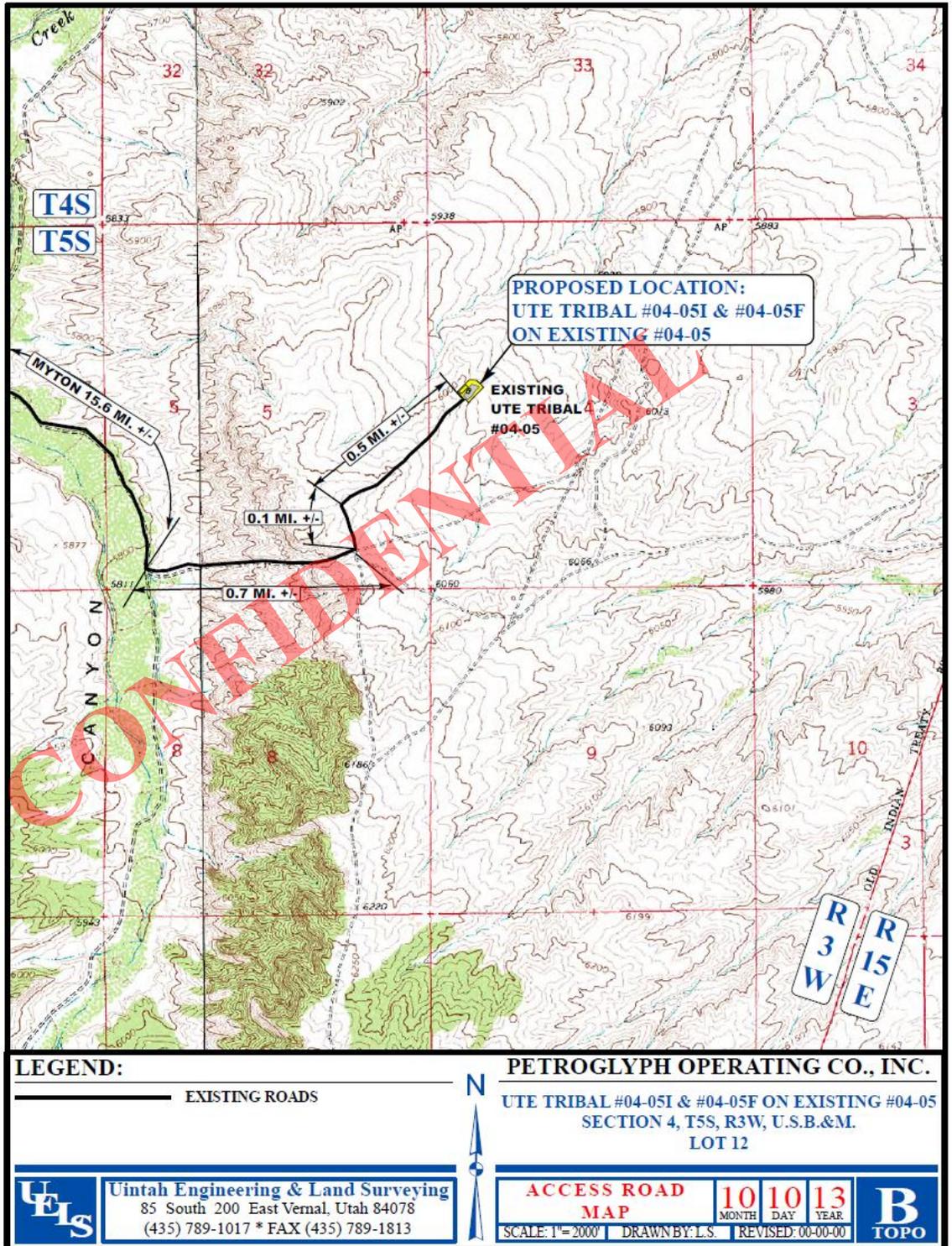
|                    |   |                  |                     |
|--------------------|---|------------------|---------------------|
| <b>Location</b>    | SHL: 2788' FNL & 635' FWL BHL: 3212' FNL & 130' FWL | <b>MapZone</b>   | <b>Lat Long Ref</b> |
| <b>Site</b>        |   | <b>SurfaceX</b>  | <b>Surface Long</b> |
| <b>Slot Name</b>   | <b>UWI</b>  | <b>SurfaceY</b>  | <b>Surface Lat</b>  |
| <b>Well Number</b> | <b>API</b>  | <b>Z Datum</b>   |                     |
| <b>Project</b>     |   | <b>Surface Z</b> | <b>Ground Level</b> |

**DIRECTIONAL WELL PLAN**

| <b>MD*</b>                | <b>INC*</b> | <b>AZI*</b> | <b>TVD*</b> | <b>N*</b> | <b>E*</b> | <b>DLS*</b> | <b>V. S.*</b> | <b>MapE*</b> | <b>MapN*</b> | <b>SysTVD*</b> |
|---------------------------|-------------|-------------|-------------|-----------|-----------|-------------|---------------|--------------|--------------|----------------|
| ft                        | deg         | deg         | ft          | ft        | ft        | %/100ft     | ft            | ft           | ft           | ft             |
| *** RTD (at MD = 6609.00) |             |             |             |           |           |             |               |              |              |                |
| 6609.00                   | 0.00        | 0.0         | 6540.78     | -429.30   | -499.11   | 0.00        | 658.34        |              |              |                |

CONFIDENTIAL





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

October 30, 2013

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 04-05I:      2788' FNL & 635' FWL, (Surface Hole)  
                                 3212' FNL & 130' FWL, (Bottom Hole)  
                                 Lot 12, Sec. 4, T5S, R3W, 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, 2013, 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 30-020 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](mailto:edtrotter@easilink.com)

**CONFIDENTIAL**

**Certification**

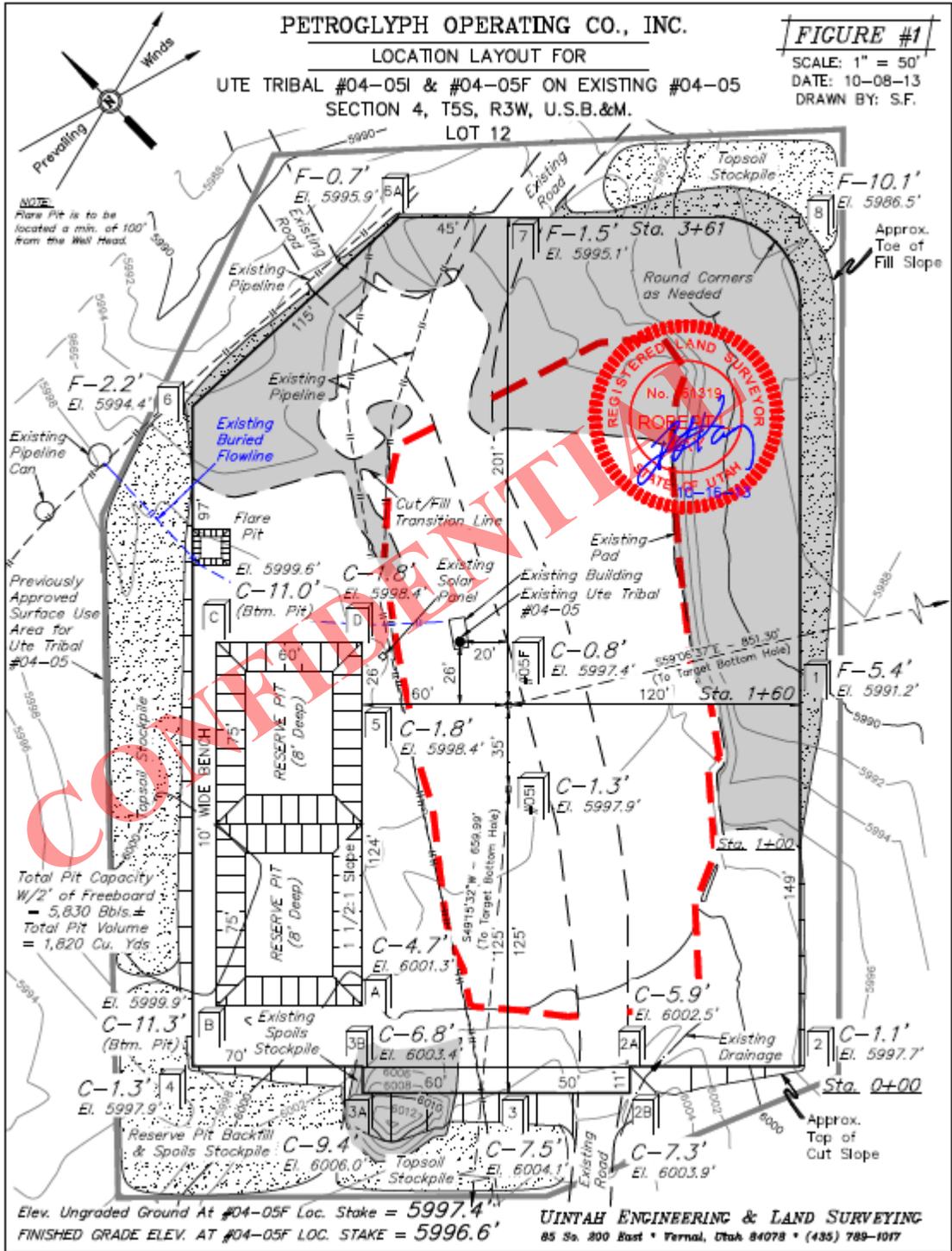
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with 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.

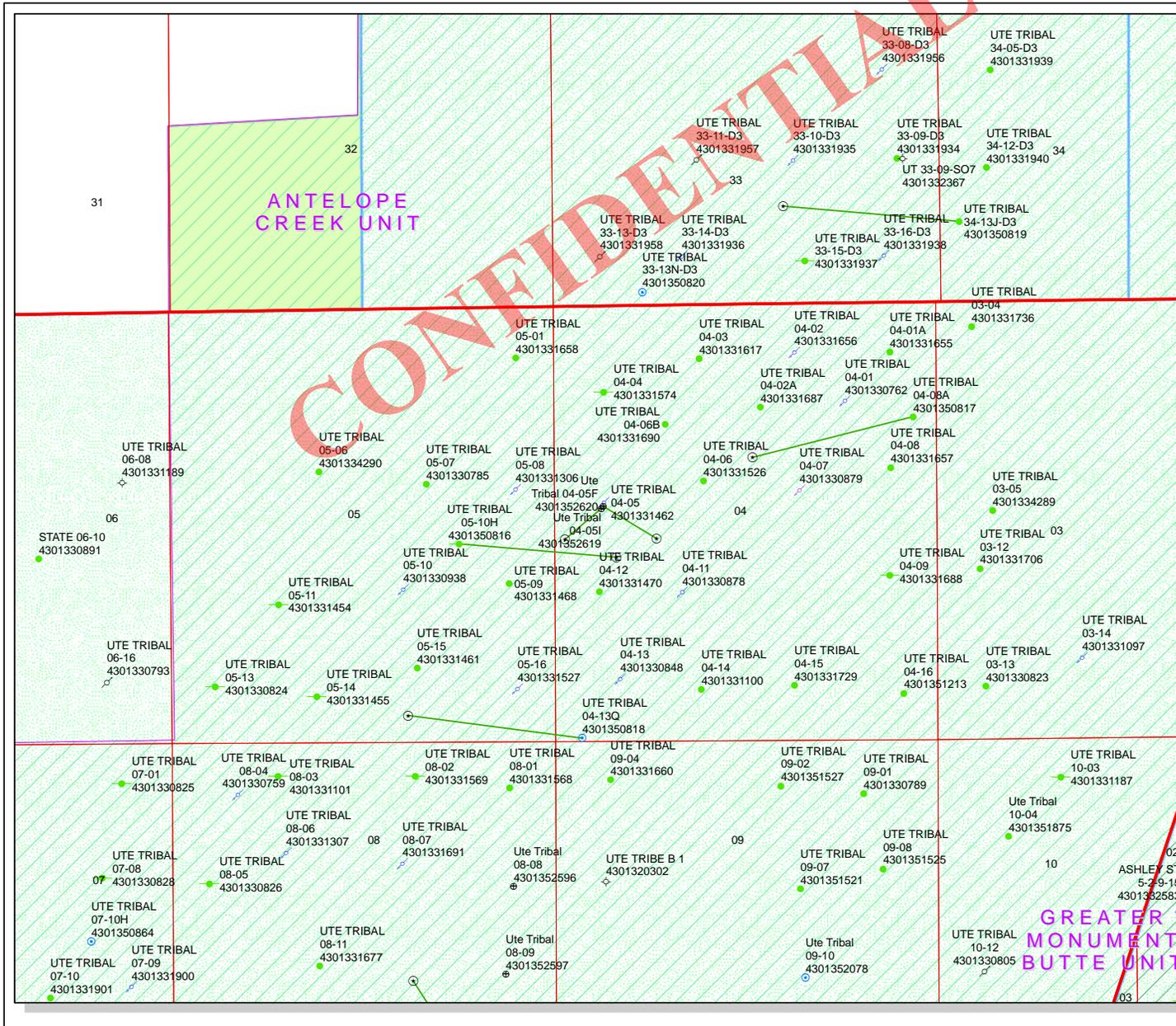
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 04-05I Well, located in Lot 12 of Section 4, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3503**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138335.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Ed Trotter, as Agent for  
Petroglyph Operating Co., Inc.

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API Number: 4301352619

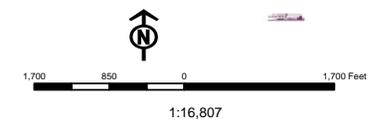
Well Name: Ute Tribal 04-05I

Township: T05.0S Range: R03.0W Section: 04 Meridian: U

Operator: PETROGLYPH OPERATING CO

Map Prepared: 11/6/2013  
Map Produced by Diana Mason

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



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/31/2013

API NO. ASSIGNED: 43013526190000

WELL NAME: Ute Tribal 04-05I

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SWNW 04 050S 030W

Permit Tech Review: 

SURFACE: 2788 FNL 0635 FWL

Engineering Review: 

BOTTOM: 3212 FNL 0130 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.07699

LONGITUDE: -110.23507

UTM SURF EASTINGS: 565221.00

NORTHINGS: 4436582.00

FIELD NAME: ANTELOPE CREEK

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H623503

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - LPM4138336
- 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: ANTELOPE CREEK
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 214-2
- Effective Date: 6/9/2000
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
15 - Directional - dmason



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. HAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** Ute Tribal 04-05I  
**API Well Number:** 43013526190000  
**Lease Number:** 1420H623503  
**Surface Owner:** INDIAN  
**Approval Date:** 11/6/2013

### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, 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 Cause 214-2. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

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

### General:

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

### Conditions of Approval:

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

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

### Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

Gas website  
at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

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

For John Rogers  
Associate Director, Oil & Gas

|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>   |
| <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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H623503 |
|  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE           |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>ANTELOPE CREEK        |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   |  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 04-051          |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Boise, ID, 83703  |  | <b>9. API NUMBER:</b><br>43013526190000                       |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2788 FNL 0635 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNW Section: 04 Township: 05.0S Range: 03.0W Meridian: U  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>ANTELOPE CREEK        |
|  |  | <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 type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:         | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input checked="" type="checkbox"/> SPUD REPORT<br>Date of Spud:<br>7/9/2014   | <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 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.

This well was spud on 07/09/2014 at approximately 12:00 P.M. Using a Bucket Rig provided by Craig's Roustabout Service, Vernal Utah, we set 60' of 16" Conductor. For additional information please contact our staff at 435-722-2531.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
July 11, 2014

|  |                                     |   |
|--|-------------------------------------|---|
| <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>7/11/2014            |   |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 06 2013

RECEIVED  
JUL 07 2014  
DIV. OF OIL, GAS & MINING

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL Vernal UT

|  |   |   |
|--|---|---|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>1420H623503  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |   | 6. If Indian, Allottee or Tribe Name                                      |
| 2. Name of Operator<br>PETROGLYPH OPERATING CO., INC. Contact: ED H TROTTER<br>Email: edtrotter@easilink.com   |   | 7. If Unit or CA Agreement, Name and No.<br>1420H624650                   |
| 3a. Address<br>P.O. BOX 607<br>ROOSEVELT, UT 84066   | 3b. Phone No. (include area code)<br>Ph: 435-789-4120<br>Fx: 435-789-1420 | 8. Lease Name and Well No.<br>UTE TRIBAL 04-051                           |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface SWNW 2788FNL 635FWL<br>At proposed prod. zone SWNW 3212FNL 130FWL   |   | 9. API Well No.<br>43-013-52619   |
| 14. Distance in miles and direction from nearest town or post office*<br>16.9 MILES SOUTHWEST OF MYTON, UTAH   |   | 10. Field and Pool, or Exploratory<br>ANTELOPE CREEK                      |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>635  | 16. No. of Acres in Lease<br>727.80                                       | 11. Sec., T., R., M., or Blk. and Survey or Area<br>Sec 4 T5S R3W Mer UBM |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.<br>68  | 19. Proposed Depth<br>6609 MD<br>6540 TVD                                 | 12. County or Parish<br>DUCHESNE  |
| 21. Elevations (Show whether DF, KB, RT, GL, etc.)<br>5997 GL  | 22. Approximate date work will start<br>12/15/2013                        | 13. State<br>UT   |
| 23. Estimated duration<br>45 DAYS  |   | 17. Spacing Unit dedicated to this well                                   |
| 24. Attachments  |   | 20. BLM/BIA Bond No. on file<br>LPM4138335                                |

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

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. 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>10/31/2013  |
| Title<br>DISTRICT MANAGER                |  |                     |
| Approved by (Signature)<br>              | Name (Printed/Typed)<br>Jerry Kenczka                      | Date<br>JUN 30 2014 |
| Title<br>Office                          |  |                     |

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

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

Additional Operator Remarks (see next page)

Electronic Submission #225200 verified by the BLM Well Information System  
For PETROGLYPH OPERATING CO., INC., sent to the Vernal  
Committed to AFMSS for processing by LESLIE BUHLER on 11/12/2013 ()





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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company: PETROGLYPH OPERATING CO  
Well No: UTE TRIBAL 04-051  
API No: 43-013-52619

Location: SWNW SEC 04 T05S R03W  
Lease No: 1420H623503  
Agreement: 1420H624650

**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  
(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  
(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  
(Notify BLM Petroleum Engineer)

- Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing  
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: [blm\\_ut\\_vn\\_opreport@blm.gov](mailto:blm_ut_vn_opreport@blm.gov).

BOP & Related Equipment Tests  
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice  
(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)***

- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Cement for the production casing will be brought to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run in the production casing to from PBTD to TOC.
- Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](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 (¼¼, Sec., Twn, Rng, and P.M.).

- Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
  - All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
  - Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
  - All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
  - Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
  - A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Pro Petro  
Submitted By Rodrigo Jurado Phone Number 435-722-5302  
Well Name/Number Ute Tribal 04-05I  
Qtr/Qtr SWNW Section 04 Township 5S Range 3W  
Lease Serial Number 14-20-H62-3503  
API Number 43-013-52619

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 07/14/2014 07:00 AM  PM

BOPE

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

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

Remarks We plan to run +/- 500' of 8-5/8" J-55 Surface Casing at the time indicated. (Sent 7/13/2014 @ 3:15 P.M.)

**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              |
|---|-----------------------|-------------------|-----------|-----|-----|----------------------------------|---------------------|
| 43013526020   | Ute Tribal 04-05F     |                   | SWNW      | 4   | 5S  | 3W                               | Duchesne            |
| Action Code   | Current Entity Number | New Entity Number | Spud Date |     |     | Entity Assignment Effective Date |                     |
| B   | 99999                 | 11780             | 7/8/2014  |     |     |                                  |                     |
| <b>Comments:</b> Please add well to existing Ute Tribal 04-06 Tank Battery.<br>GRRV |                       |                   |           |     |     |                                  | <b>CONFIDENTIAL</b> |

**Well 2**

| API Number   | Well Name             |                   | QQ        | Sec | Twp | Rng                              | County              |
|--|-----------------------|-------------------|-----------|-----|-----|----------------------------------|---------------------|
| 4301352619   | Ute Tribal 04-05I     |                   | SWNW      | 4   | 5S  | 3W                               | Duchesne            |
| Action Code  | Current Entity Number | New Entity Number | Spud Date |     |     | Entity Assignment Effective Date |                     |
| B  | 99999                 | 11780             | 7/9/2014  |     |     |                                  |                     |
| <b>Comments:</b> Please add well to exiting Ute Tribal 04-06 Tank Battery.<br>GRRV |                       |                   |           |     |     |                                  | <b>CONFIDENTIAL</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

Title

7/11/2014

Date

**RECEIVED**  
**JUL 11 2014**

Div. of Oil, Gas & Mining

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Capstar 334  
Submitted By Levi Jacobs Phone Number 970-361-3271  
Well Name/Number Ute Tribal 04-05i  
Qtr/Qtr SW/NE Section 04 Township 5S Range 3W  
Lease Serial Number 14-20-H62-3503  
API Number 43-013-52619

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 09/17/2014 00:00 AM  PM

BOPE

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

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

Remarks Plan to run 153 jts of 15.5# set at 6510'

|  |   |
|--|---|
| <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>1420H623503                                    |
| <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>UTE<br><br><b>7. UNIT or CA AGREEMENT NAME:</b><br>ANTELOPE CREEK     |
| <b>1. TYPE OF WELL</b><br>Oil Well   | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 04-051  |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   | <b>9. API NUMBER:</b><br>43013526190000   |
| <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>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2788 FNL 0635 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNW Section: 04 Township: 05.0S Range: 03.0W Meridian: U  | <b>9. FIELD and POOL or WILDCAT:</b><br>ANTELOPE CREEK<br><br><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>10/21/2014</b><br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date: | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input checked="" type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>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.

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

Date: October 15, 2014

By: *Dark Ount*

|  |                                     |   |
|--|-------------------------------------|---|
| <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>10/13/2014           |   |

**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>1420H623503    |
| 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 |
| 1. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____  |  |                                 | 7. UNIT or CA AGREEMENT NAME:<br>1420H624650              |
| 2. NAME OF OPERATOR:<br>Petroglyph Operating Company Inc.  |  |                                 | 8. WELL NAME and NUMBER:<br>Ute Tribal 04-05I             |
| 3. ADDRESS OF OPERATOR:<br>P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066  |  | PHONE NUMBER:<br>(435) 722-2531 | 9. API NUMBER:<br>4301352619                              |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 2788' FNL, 635' FWL COUNTY: Duchesne<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 4 5S 3W U STATE: UTAH  |  |                                 | 10. FIELD AND POOL, OR WILDCAT:<br>Antelope Creek         |

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

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br><u>10/21/2014</u> | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion: _____                             | <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 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 or around 10/21/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4235-40, 4305-07, 4317-20, 4358-64, 4449-52, 4521-23, 4526-27, 4548-52, 4558-62, 4671-74, 4796-98, 4826-28, 4850-52, 4888-91, 4894-99, 4967-70, 4974-79, 4998-5000, 5061-69, 5243-45, 5248-50, 5254-57, 5390-94, 5402-49, 5456-62, 5478-85, 5500-04, 5521-26, 5535-37, 5540-42, 5550-58, 5566-68, 5577-78, 5582-84, 5660-63, 5670-73, 5725-28, 5823-26, 5855-60, 5917-21, 5952-56, 5983-85, 6014-16, 6027-29, 6034-36, 6050-52, 6101-03, 6130-33 & 6145-47. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:  
 5,917-6,157: 30,800 Gals of fluid containing 55,000#'s of sand,  
 5,660-5,860: 22,400 Gals of fluid containing 40,000#'s of sand,  
 5,390-5,584: 95,200 Gals of fluid containing 170,000#'s of sand,  
 5,243-5,257: 14,000 Gals of fluid containing 25,000#'s of sand,  
 5,061-5,069: 14,000 Gals of fluid containing 25,000#'s of sand,  
 4,967-5,000: 16,800 Gals of fluid containing 30,000#'s of sand,  
 4,796-4,899: 22,400 Gals of fluid containing 40,000#'s of sand,  
 4,521-4,674: 22,400 Gals of fluid containing 40,000#'s of sand,  
 4,235-4,452: 30,800 Gals of fluid containing 55,000#'s of sand.

This plan is tentative and will be adjusted as needed during completion operations. Volumes and amounts of sand are only estimates, actual figures will be reported at a later date. All plugs will be drilled out and the well swabbed if necessary.

|   |   |
|---|---|
| NAME (PLEASE PRINT) <u>Rodrigo Jurado</u> | TITLE <u>Regulatory Compliance Specialist</u> |
| SIGNATURE                                 | DATE <u>10/13/2014</u>                        |

(This space for State use only)

| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | FORM 9  |   |
|--|--|---|---|
| <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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H623503   |   |
|  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE   |   |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>ANTELOPE CREEK  |   |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   |  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 04-051  |   |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500, Boise, ID, 83703   |  | <b>9. API NUMBER:</b><br>43013526190000   |   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2788 FNL 0635 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNW Section: 04 Township: 05.0S Range: 03.0W Meridian: U  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>ANTELOPE CREEK  |   |
|  |  | <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:<br><br><input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>11/10/2014<br><br><input type="checkbox"/> SPUD REPORT<br>Date of Spud:<br><br><input type="checkbox"/> DRILLING REPORT<br>Report Date: | <input type="checkbox"/> ACIDIZE<br><br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><br><input type="checkbox"/> CHANGE WELL STATUS<br><br><input type="checkbox"/> DEEPEN<br><br><input type="checkbox"/> OPERATOR CHANGE<br><br><input checked="" type="checkbox"/> PRODUCTION START OR RESUME<br><br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><br><input type="checkbox"/> TUBING REPAIR<br><br><input type="checkbox"/> WATER SHUTOFF<br><br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><br><input type="checkbox"/> CHANGE TUBING<br><br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><br><input type="checkbox"/> FRACTURE TREAT<br><br><input type="checkbox"/> PLUG AND ABANDON<br><br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><br><input type="checkbox"/> VENT OR FLARE<br><br><input type="checkbox"/> SI TA STATUS EXTENSION<br><br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><br><input type="checkbox"/> CHANGE WELL NAME<br><br><input type="checkbox"/> CONVERT WELL TYPE<br><br><input type="checkbox"/> NEW CONSTRUCTION<br><br><input type="checkbox"/> PLUG BACK<br><br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><br><input type="checkbox"/> TEMPORARY ABANDON<br><br><input type="checkbox"/> WATER DISPOSAL<br><br><input type="checkbox"/> APD EXTENSION<br><br>OTHER: <input style="width: 100px;" 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 11/10/2014.   |  |   |   |
| <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY<br/>November 17, 2014</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>11/17/2014   |   |

| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | FORM 9   |   |
|--|---|--|---|
| <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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H623503  |   |
|  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE  |   |
| <b>1. TYPE OF WELL</b><br>Oil Well   |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>ANTELOPE CREEK   |   |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO   |   | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 04-051   |   |
| <b>3. ADDRESS OF OPERATOR:</b><br>960 Broadway Avenue, Ste 500 , Boise, ID, 83703  |   | <b>9. API NUMBER:</b><br>43013526190000  |   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2788 FNL 0635 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNW Section: 04 Township: 05.0S Range: 03.0W Meridian: U  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>ANTELOPE CREEK   |   |
|  |   | <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:<br><br><input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>12/16/2014<br><br><input type="checkbox"/> SPUD REPORT<br>Date of Spud:<br><br><input type="checkbox"/> DRILLING REPORT<br>Report Date: | <input type="checkbox"/> ACIDIZE<br><br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><br><input type="checkbox"/> CHANGE WELL STATUS<br><br><input type="checkbox"/> DEEPEN<br><br><input type="checkbox"/> OPERATOR CHANGE<br><br><input type="checkbox"/> PRODUCTION START OR RESUME<br><br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><br><input type="checkbox"/> TUBING REPAIR<br><br><input type="checkbox"/> WATER SHUTOFF<br><br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><br><input type="checkbox"/> CHANGE TUBING<br><br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><br><input checked="" type="checkbox"/> FRACTURE TREAT<br><br><input type="checkbox"/> PLUG AND ABANDON<br><br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><br><input type="checkbox"/> VENT OR FLARE<br><br><input type="checkbox"/> SI TA STATUS EXTENSION<br><br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><br><input type="checkbox"/> CHANGE WELL NAME<br><br><input type="checkbox"/> CONVERT WELL TYPE<br><br><input type="checkbox"/> NEW CONSTRUCTION<br><br><input type="checkbox"/> PLUG BACK<br><br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><br><input type="checkbox"/> TEMPORARY ABANDON<br><br><input type="checkbox"/> WATER DISPOSAL<br><br><input type="checkbox"/> APD EXTENSION<br><br>OTHER: <input style="width: 100px;" type="text"/> |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br><br>Please see attached.   |   |  |   |
|  |   | <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY<br/>February 20, 2015</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>2/18/2015   |   |



| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |   | FORM 9  |
|---|---|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>1420H623503 |
| 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>UTE           |
|   |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>ANTELOPE CREEK        |
| <b>1. TYPE OF WELL</b><br>Oil Well  | <b>8. WELL NAME and NUMBER:</b><br>Ute Tribal 04-051  |   |
| <b>2. NAME OF OPERATOR:</b><br>PETROGLYPH OPERATING CO  | <b>9. API NUMBER:</b><br>43013526190000   |   |
| <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>ANTELOPE CREEK        |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2788 FNL 0635 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWNW Section: 04 Township: 05.0S Range: 03.0W 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 checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>2/17/2015<br><br><input type="checkbox"/> SPUD REPORT<br>Date of Spud:<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"/> OPERATOR CHANGE<br><input type="checkbox"/> PLUG AND ABANDON<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"/> 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 checked="" type="checkbox"/> OTHER |   |
|   | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <input type="text" value="Perf Squeeze"/>  |   |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>Please see attached.  |   |   |
| <b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY<br/>March 05, 2015</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>3/3/2015   |   |

**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-H62-3503 |
| 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 |
| 1. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____  |  | 7. UNIT or CA AGREEMENT NAME:<br>14-20-H62-4650           |
| 2. NAME OF OPERATOR:<br>Petroglyph Operating Company Inc.  |  | 8. WELL NAME and NUMBER:<br>Ute Tribal 04-05I             |
| 3. ADDRESS OF OPERATOR:<br>P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066  |  | 9. API NUMBER:<br>4301352619                              |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 2788' FNL, 635' FWL COUNTY: Duchesne<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 4 5S 3W U STATE: UTAH  |  | 10. FIELD AND POOL, OR WILDCAT:<br>Antelope Creek         |
| 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 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>2/17/2015 | <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 checked="" type="checkbox"/> OTHER: <u>Squeeze Perfs</u> |
|   | <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 2/9/2015 Petroglyph Operating rigged up on the well referenced above to cement perforations responsible for excessive water production. A Water Production Log was ran and it was determined that the problem zone included perforations made at 5243-45, 5248-50 & 5254-57. After rigging up we pulled the rods and tubing, made a bit and scraper run past all perforations, the ran in hole and set an 8K Composite Plug at 5,310'. A Composite Retainer was set at 5,195'. We rigged up Pro Petro cement equipment, pressure tested equipment and stung into the retainer. We pumper 10 Bbls of Class G Cement, Neat (50 Sacks). We Placed 6.1 Bbls of cement and reversed out 3.9 Bbls. We then drilled out the retainer and cement to 5310, circulated the hole, tagged plug and pulled out of the hole. We then set packer and tested the cement to 1100 psi for 20 minutes with only a 10 psi loss. We then pull all equipment, drilled out plug and chased to bottom, cleaned out hole pulled back out, and ran back in and set tubing and pump. Well was put back to pump on 2/17/2015.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist  
SIGNATURE  DATE 3/3/2015

(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**

|   |                          |
|---|--------------------------|
| 5. LEASE DESIGNATION AND SERIAL NUMBER:<br><b>14-20-H62-3503</b>          |                          |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>Ute Indian Tribe</b>           |                          |
| 7. UNIT or CA AGREEMENT NAME<br><b>14-20-H62-4650</b>                     |                          |
| 8. WELL NAME and NUMBER:<br><b>Ute Tribal 04-05I</b>                      |                          |
| 9. API NUMBER<br><b>4301352619</b>  |                          |
| 10. FIELD AND POOL, OR WILDCAT<br><b>Antelope Creek</b>                   |                          |
| 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br><b>SWNW 4 5S 3W U</b> |                          |
| 12. COUNTY<br><b>Duchesne</b>   | 13. STATE<br><b>UTAH</b> |

|                                      |  |   |                                    |  |  |
|--------------------------------------|--|---|------------------------------------|--|--|
| 14. DATE SPUDDED:<br><b>7/9/2014</b> | 15. DATE T.D. REACHED:<br><b>9/16/2014</b> | 16. DATE COMPLETED:<br><b>2/18/2015</b> | ABANDONED <input type="checkbox"/> | READY TO PRODUCE <input checked="" type="checkbox"/> | 17. ELEVATIONS (DF, RKB, RT, GL):<br><b>6,010' RKB</b> |
|--------------------------------------|--|---|------------------------------------|--|--|

|  |   |  |                                      |
|--|---|--|--------------------------------------|
| 18. TOTAL DEPTH: MD <b>6,521</b><br>TVD <b>6,458</b> | 19. PLUG BACK T.D.: MD <b>6,440</b><br>TVD <b>6,377</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, Borehole Volume Plot, Cement Bond Log</b> | 23.<br>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        | 73          |                      |                            |                     | 0             | Conductor     |
| 12.25     | 8.625 J-55 | 24             | 0        | 543         |                      | G 360                      | 74                  |               |               |
| 7.875     | 5.5 J-55   | 15.5           | 0        | 6,510       |                      | G 835                      | 267                 | 45            | 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 | 6,167          |                 |      |                |                 |      |                |                 |

**26. PRODUCING INTERVALS**

| FORMATION NAME  | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|-----------------|----------|-------------|-----------|--------------|
| (A) Green River | 4,235    | 6,147       | 4,153     | 6,086        |
| (B)             |          |             |           |              |
| (C)             |          |             |           |              |
| (D)             |          |             |           |              |

**27. PERFORATION RECORD**

| INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS   |
|-------------------------|------|-----------|--|
| 4,235 6,147             | 0.42 | 784       | Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/> |
| 5,243 5,257             | 0.42 | 28        | Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/> |
|                         |      |           | Open <input type="checkbox"/> Squeezed <input type="checkbox"/>            |
|                         |      |           | Open <input type="checkbox"/> Squeezed <input type="checkbox"/>            |

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

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL  |
|----------------|--|
| 4,235'-6,147'  | 5,347 Bbls of Delta 140 18# Gelled Fluid containing 435,500#'s of 20/40 Mesh Sand. |
|                |  |

**29. ENCLOSED ATTACHMENTS:**

|   |  |  |  |
|---|--|--|--|
| <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS              | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT                            | <input checked="" type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS   | <input checked="" type="checkbox"/> OTHER: <u>UDOGM Form 7</u> |  |

**30. WELL STATUS:**  
**POW**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

|                                    |                    |                          |                      |                     |                      |                           |                  |                  |                     |                           |
|------------------------------------|--------------------|--------------------------|----------------------|---------------------|----------------------|---------------------------|------------------|------------------|---------------------|---------------------------|
| DATE FIRST PRODUCED:<br>11/10/2014 |                    | TEST DATE:<br>12/29/2014 |                      | HOURS TESTED:<br>24 |                      | TEST PRODUCTION RATES: →  | OIL – BBL:<br>38 | GAS – MCF:<br>10 | WATER – BBL:<br>260 | PROD. METHOD:<br>Rod Pump |
| CHOKE SIZE:<br>32/64               | TBG. PRESS.<br>100 | CSG. PRESS.<br>97        | API GRAVITY<br>40.10 | BTU – GAS<br>1      | GAS/OIL RATIO<br>263 | 24 HR PRODUCTION RATES: → | OIL – BBL:<br>38 | GAS – MCF:<br>10 | WATER – BBL:<br>260 | 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) |
|-----------|----------|-------------|------------------------------|-----------------------|----------------------|
|           |          |             |                              | Trona                 | 2,897                |
|           |          |             |                              | Mahogany Shale        | 3,036                |
|           |          |             |                              | Lower Parachute Creek | 3,364                |
|           |          |             |                              | Garden Gulch          | 3,764                |
|           |          |             |                              | Middle Garden Gulch   | 4,166                |
|           |          |             |                              | Lower Garden Gulch    | 4,653                |
|           |          |             |                              | Douglas Creek         | 4,796                |
|           |          |             |                              | Lower Douglas Creek   | 5,183                |
|           |          |             |                              | Castle Peak           | 5,766                |
|           |          |             |                              | Uteland Butte         | 6,170                |

35. ADDITIONAL REMARKS (Include plugging procedure)

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 3/2/2015

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

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

---

**REPORT OF WATER ENCOUNTERED DURING DRILLING**

---

Well name and number: Ute Tribal 04-051

API number: 4301352619

Well Location: QQ WWNW Section 4 Township 5S Range 3W County Duchesne

Well operator: Petroglyph Operating Company, Inc.

Address: P.O. Box 607

city Roosevelt state UT zip 84066

Phone: (435) 722-2531

Drilling contractor: Pro Petro

Address: 1422 East 1500 South

city Vernal state UT zip 84078

Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

| DEPTH |     | VOLUME<br>(FLOW RATE OR HEAD) | QUALITY<br>(FRESH OR SALTY) |
|-------|-----|-------------------------------|-----------------------------|
| FROM  | TO  |                               |                             |
| 0     | 540 | 0                             | No Water Encountered        |
|       |     |                               |                             |
|       |     |                               |                             |
|       |     |                               |                             |
|       |     |                               |                             |
|       |     |                               |                             |
|       |     |                               |                             |

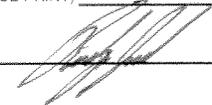
Formation tops:            1 \_\_\_\_\_            2 \_\_\_\_\_            3 \_\_\_\_\_  
 (Top to Bottom)            4 \_\_\_\_\_            5 \_\_\_\_\_            6 \_\_\_\_\_  
                                      7 \_\_\_\_\_            8 \_\_\_\_\_            9 \_\_\_\_\_  
                                      10 \_\_\_\_\_            11 \_\_\_\_\_            12 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo Jurado

TITLE Regulatory Compliance Specialist

SIGNATURE 

DATE 7/18/2014



**Job Number:** UT141440  
**Company:** Petroglyph  
**Lease/Well:** Ute Tribal 04-05i  
**Location:** Sec 4 T5S R3W  
**Rig Name:** Capstar 334  
**RKB:** 6009.6 13' KB  
**G.L. or M.S.L.:** 5996.6

**State/Country:** UT  
**Declination:** 10.97  
**Grid:** True  
**File name:** C:\WINSERVE\UT141440.SVY  
**Date/Time:** 16-Sep-14 / 12:17  
**Curve Name:** As Drilled

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 229.30  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

| Measured Depth<br>FT | Incl Angle<br>Deg | Drift Direction<br>Deg | True Vertical Depth | N-S<br>FT | E-W<br>FT | Vertical Section<br>FT | CLOSURE        |                  | Dogleg Severity<br>Deg/100 |
|----------------------|-------------------|------------------------|---------------------|-----------|-----------|------------------------|----------------|------------------|----------------------------|
|                      |                   |                        |                     |           |           |                        | Distance<br>FT | Direction<br>Deg |                            |
| .00                  | .00               | .00                    | .00                 | .00       | .00       | .00                    | .00            | .00              | .00                        |
| 592.00               | .09               | 198.75                 | 592.00              | -.44      | -.15      | .40                    | .46            | 198.75           | .02                        |
| 685.00               | 1.58              | 250.65                 | 684.99              | -.93      | -1.38     | 1.66                   | 1.67           | 235.95           | 1.64                       |
| 776.00               | 2.55              | 232.10                 | 775.93              | -2.59     | -4.16     | 4.85                   | 4.91           | 238.08           | 1.28                       |
| 891.00               | 3.43              | 231.00                 | 890.77              | -6.33     | -8.86     | 10.84                  | 10.89          | 234.44           | .77                        |
| 975.00               | 3.47              | 227.71                 | 974.62              | -9.62     | -12.69    | 15.89                  | 15.93          | 232.83           | .24                        |
| 1060.00              | 4.31              | 224.63                 | 1059.42             | -13.63    | -16.84    | 21.65                  | 21.66          | 231.02           | 1.02                       |
| 1144.00              | 5.23              | 226.43                 | 1143.13             | -18.51    | -21.83    | 28.62                  | 28.62          | 229.70           | 1.11                       |
| 1228.00              | 6.15              | 234.08                 | 1226.72             | -23.79    | -28.25    | 36.93                  | 36.93          | 229.89           | 1.42                       |
| 1313.00              | 6.86              | 239.09                 | 1311.17             | -29.07    | -36.29    | 46.47                  | 46.50          | 231.30           | 1.07                       |
| 1397.00              | 7.65              | 234.34                 | 1394.50             | -34.91    | -45.14    | 56.98                  | 57.06          | 232.28           | 1.18                       |
| 1481.00              | 8.68              | 234.42                 | 1477.64             | -41.85    | -54.83    | 68.86                  | 68.98          | 232.65           | 1.23                       |
| 1566.00              | 9.40              | 225.73                 | 1561.59             | -50.43    | -65.02    | 82.18                  | 82.29          | 232.20           | 1.81                       |
| 1650.00              | 10.68             | 220.72                 | 1644.31             | -61.12    | -75.01    | 96.72                  | 96.76          | 230.83           | 1.84                       |
| 1733.00              | 11.51             | 224.02                 | 1725.75             | -72.90    | -85.78    | 112.58                 | 112.58         | 229.64           | 1.26                       |
| 1819.00              | 12.38             | 223.70                 | 1809.89             | -85.74    | -98.12    | 130.29                 | 130.30         | 228.85           | 1.01                       |
| 1903.00              | 13.18             | 221.16                 | 1891.81             | -99.46    | -110.64   | 148.74                 | 148.77         | 228.05           | 1.16                       |
| 1987.00              | 13.67             | 222.74                 | 1973.52             | -113.96   | -123.68   | 168.08                 | 168.18         | 227.34           | .73                        |
| 2072.00              | 14.06             | 222.26                 | 2056.04             | -128.98   | -137.44   | 188.30                 | 188.48         | 226.82           | .48                        |
| 2156.00              | 14.59             | 225.69                 | 2137.43             | -143.92   | -151.87   | 208.99                 | 209.23         | 226.54           | 1.19                       |
| 2241.00              | 14.90             | 229.20                 | 2219.63             | -158.54   | -167.81   | 230.60                 | 230.85         | 226.63           | 1.11                       |
| 2325.00              | 15.86             | 233.73                 | 2300.62             | -172.39   | -185.24   | 252.85                 | 253.04         | 227.06           | 1.83                       |
| 2412.00              | 17.05             | 234.34                 | 2384.06             | -186.85   | -205.18   | 277.40                 | 277.52         | 227.68           | 1.38                       |
| 2497.00              | 16.53             | 234.14                 | 2465.44             | -201.20   | -225.11   | 301.87                 | 301.92         | 228.21           | .62                        |
| 2589.00              | 15.21             | 232.06                 | 2553.93             | -216.29   | -245.23   | 326.96                 | 326.99         | 228.59           | 1.56                       |
| 2680.00              | 13.93             | 229.69                 | 2642.00             | -230.72   | -263.00   | 349.84                 | 349.86         | 228.74           | 1.55                       |

| Measured<br>Depth<br>FT | Incl<br>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 | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 2771.00                 | 12.57                | 227.44                    | 2730.58                   | -244.50   | -278.65   | 370.69                    | 370.71         | 228.73           | 1.60                          |
| 2862.00                 | 12.00                | 225.07                    | 2819.49                   | -257.88   | -292.64   | 390.02                    | 390.05         | 228.61           | .84                           |
| 2954.00                 | 11.95                | 225.12                    | 2909.49                   | -271.36   | -306.16   | 409.06                    | 409.11         | 228.45           | .06                           |
| 3045.00                 | 11.34                | 227.27                    | 2998.62                   | -284.07   | -319.41   | 427.40                    | 427.46         | 228.35           | .82                           |
| 3136.00                 | 10.77                | 228.02                    | 3087.93                   | -295.83   | -332.30   | 444.84                    | 444.91         | 228.32           | .65                           |
| 3227.00                 | 10.78                | 230.21                    | 3177.32                   | -306.97   | -345.16   | 461.85                    | 461.91         | 228.35           | .45                           |
| 3319.00                 | 10.63                | 232.32                    | 3267.72                   | -317.66   | -358.49   | 478.93                    | 478.98         | 228.46           | .46                           |
| 3409.00                 | 10.99                | 228.59                    | 3356.13                   | -328.41   | -371.49   | 495.79                    | 495.84         | 228.52           | .87                           |
| 3501.00                 | 10.50                | 231.84                    | 3446.52                   | -339.39   | -384.66   | 512.94                    | 512.98         | 228.58           | .85                           |
| 3592.00                 | 9.27                 | 229.60                    | 3536.16                   | -349.26   | -396.76   | 528.55                    | 528.59         | 228.64           | 1.42                          |
| 3683.00                 | 8.92                 | 232.63                    | 3626.02                   | -358.29   | -407.95   | 542.92                    | 542.95         | 228.71           | .65                           |
| 3774.00                 | 8.31                 | 232.19                    | 3715.99                   | -366.61   | -418.75   | 556.54                    | 556.56         | 228.80           | .67                           |
| 3865.00                 | 8.31                 | 229.11                    | 3806.04                   | -374.94   | -428.92   | 569.68                    | 569.70         | 228.84           | .49                           |
| 3956.00                 | 7.65                 | 232.50                    | 3896.16                   | -382.94   | -438.70   | 582.30                    | 582.32         | 228.88           | .89                           |
| 4048.00                 | 7.29                 | 239.97                    | 3987.38                   | -389.58   | -448.61   | 594.15                    | 594.16         | 229.03           | 1.12                          |
| 4139.00                 | 5.32                 | 234.96                    | 4077.82                   | -394.90   | -457.06   | 604.03                    | 604.03         | 229.17           | 2.25                          |
| 4230.00                 | 5.23                 | 234.48                    | 4168.44                   | -399.73   | -463.89   | 612.35                    | 612.36         | 229.25           | .11                           |
| 4322.00                 | 3.65                 | 235.75                    | 4260.16                   | -403.81   | -469.73   | 619.44                    | 619.44         | 229.32           | 1.72                          |
| 4413.00                 | 3.30                 | 229.38                    | 4350.99                   | -407.15   | -474.11   | 624.94                    | 624.94         | 229.35           | .57                           |
| 4505.00                 | 3.30                 | 230.30                    | 4442.84                   | -410.56   | -478.16   | 630.23                    | 630.23         | 229.35           | .06                           |
| 4596.00                 | 2.92                 | 217.97                    | 4533.71                   | -414.06   | -481.60   | 635.13                    | 635.13         | 229.31           | .84                           |
| 4687.00                 | 2.81                 | 227.09                    | 4624.59                   | -417.41   | -484.66   | 639.63                    | 639.63         | 229.26           | .51                           |
| 4778.00                 | 2.81                 | 230.26                    | 4715.48                   | -420.35   | -488.01   | 644.09                    | 644.09         | 229.26           | .17                           |
| 4870.00                 | 2.94                 | 233.86                    | 4807.37                   | -423.19   | -491.64   | 648.69                    | 648.69         | 229.28           | .24                           |
| 4961.00                 | 2.90                 | 240.67                    | 4898.25                   | -425.69   | -495.54   | 653.28                    | 653.28         | 229.34           | .38                           |
| 5052.00                 | 2.15                 | 262.73                    | 4989.16                   | -427.04   | -499.24   | 656.96                    | 656.96         | 229.46           | 1.33                          |
| 5144.00                 | 2.11                 | 256.67                    | 5081.10                   | -427.64   | -502.60   | 659.90                    | 659.91         | 229.61           | .25                           |
| 5327.00                 | 1.41                 | 265.24                    | 5264.01                   | -428.61   | -508.12   | 664.72                    | 664.75         | 229.85           | .41                           |
| 5418.00                 | 1.14                 | 309.18                    | 5354.99                   | -428.13   | -509.94   | 665.78                    | 665.83         | 229.98           | 1.08                          |
| 5509.00                 | 1.63                 | 340.38                    | 5445.97                   | -426.34   | -511.07   | 665.48                    | 665.55         | 230.17           | .97                           |
| 5600.00                 | .35                  | 56.25                     | 5536.95                   | -424.96   | -511.28   | 664.73                    | 664.83         | 230.27           | 1.74                          |
| 5692.00                 | 1.00                 | 160.00                    | 5628.95                   | -425.56   | -510.77   | 664.74                    | 664.82         | 230.20           | 1.23                          |
| 5783.00                 | 1.58                 | 141.71                    | 5719.92                   | -427.29   | -509.72   | 665.07                    | 665.13         | 230.03           | .77                           |
| 5874.00                 | 1.63                 | 128.83                    | 5810.89                   | -429.09   | -507.93   | 664.89                    | 664.92         | 229.81           | .40                           |
| 5965.00                 | 1.71                 | 122.90                    | 5901.85                   | -430.64   | -505.78   | 664.27                    | 664.28         | 229.59           | .21                           |
| 6057.00                 | 1.41                 | 121.98                    | 5993.82                   | -431.98   | -503.67   | 663.55                    | 663.55         | 229.38           | .33                           |
| 6148.00                 | .79                  | 108.63                    | 6084.80                   | -432.78   | -502.13   | 662.89                    | 662.89         | 229.24           | .73                           |
| 6239.00                 | 1.24                 | 137.00                    | 6175.78                   | -433.70   | -500.86   | 662.53                    | 662.54         | 229.11           | .73                           |
| 6331.00                 | 1.01                 | 142.98                    | 6267.77                   | -435.07   | -499.69   | 662.55                    | 662.56         | 228.95           | .28                           |
| 6422.00                 | 1.32                 | 151.07                    | 6358.75                   | -436.63   | -498.70   | 662.81                    | 662.84         | 228.80           | .38                           |
| 6467.00                 | 1.36                 | 169.09                    | 6403.74                   | -437.61   | -498.35   | 663.18                    | 663.22         | 228.71           | .94                           |
| <b>Projection to TD</b> |                      |                           |                           |           |           |                           |                |                  |                               |
| 6521.00                 | 1.36                 | 169.09                    | 6457.72                   | -438.87   | -498.11   | 663.82                    | 663.87         | 228.62           | .00                           |

