API Well Number: 43013511990000

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

FORM 3

AMENDED REPORT ☑

## APPLICATION FOR PERMIT TO DRILL

**1. WELL NAME and NUMBER**
Ute Tribal 09-13

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

**3. FIELD OR WILDCAT**
ANTELOPE CREEK

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

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
ANTELOPE CREEK

**6. NAME OF OPERATOR**
PETROGLYPH OPERATING CO

**7. OPERATOR PHONE**
208 685-7674

**8. ADDRESS OF OPERATOR**
960 Broadway Ave, Ste 500, Bosie, ID, 83703

**9. OPERATOR E-MAIL**
bwest@pgei.com

**10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**
BIA 14-20-H62-3508

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

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

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

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

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

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

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

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

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

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 650 FSL 657 FWL | SWSW | 9 | 5.0 S | 3.0 W | U |
| Top of Uppermost Producing Zone | 650 FSL 657 FWL | SWSW | 9 | 5.0 S | 3.0 W | U |
| At Total Depth | 650 FSL 657 FWL | SWSW | 9 | 5.0 S | 3.0 W | U |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
650

**23. NUMBER OF ACRES IN DRILLING UNIT**
640

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
2200

**26. PROPOSED DEPTH**
MD: 6260 TVD: 6260

**27. ELEVATION - GROUND LEVEL**
6182

**28. BOND NUMBER**
LPM4138153

**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**
43-8342

### Hole, Casing, and Cement Information

| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| COND | 20 | 14 | 0 - 40 | 5.0 | Unknown | 10.0 | Class G | 25 | 1.17 | 15.8 |
| SURF | 12.25 | 8.625 | 0 - 480 | 24.0 | J-55 ST&C | 15.8 | Class G | 220 | 1.17 | 15.8 |
| PROD | 7.875 | 5.5 | 0 - 6260 | 15.5 | J-55 LT&C | 10.0 | Class G | 483 | 1.92 | 12.5 |
| | | | | | | | Class G | 331 | 1.46 | 13.4 |

### ATTACHMENTS

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

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

**NAME** Ed Trotter **TITLE** Agent **PHONE** 435 789-4120

**SIGNATURE** **DATE** 01/27/2012 **EMAIL** edtrotter@easilink.com

**API NUMBER ASSIGNED**
43013511990000

**APPROVAL**
Permit Manager

CONFIDENTIAL

RECEIVED: February 02, 2012

# CONFIDENTIAL

**EIGHT POINT DRILLING PLAN**
**PETROGLYPH OPERATING COMPANY, INC**
**UTE TRIBAL 09-13**
**SW SW, SEC 9, T5S, R3W**
**DUCHESNE COUNTY, UTAH**

## 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| Formation | | Subsea | | MD |
|---|---|---|---|---|
| Surface Formation=**Uinta** | | | | |
| **Unita** | | **6181** | | **0** |
| **Green River** | | **4480** | | **1717** |
| Trona | | 3320 | | 2877 |
| Mahogany Shale | | 3188 | | 3009 |
| "B" Marker | Waterflood Unit Interval | 2079 | | 4118 |
| "X" Marker | | 1589 | | 4608 |
| Douglas Creek Marker | | 1445 | | 4752 |
| "B" Limestone | | 1056 | | 5141 |
| Base Castle Peak Limestone | | 488 | | 5709 |
| BSCARB | | 89 | | 6108 |
| **Wasatch** | | **-178** | | **NDE** |
| **Rig TD** | | **-63** | | **6260** |

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

| Substance | Formation | SUBSEA | MD |
|---|---|---|---|
| Base of moderately saline ground water* | Uinta | 6100 | 97 |
| Oil/Gas | Douglas Creek | 1445 | 4752 |
| Oil/Gas | B/Castle Peak | 488 | 5709 |

Any water encountered during drilling shall be sampled, analyzed and reported to the 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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**EIGHT POINT DRILLING PLAN**
**PETROGLYPH OPERATING COMPANY, INC**
**UTE TRIBAL 09-13**
**SW SW, SEC 9, T5S, R3W**
**DUCHESNE COUNTY, UTAH**

## 3. PROPOSED CASING PROGRAM:

| String | Hole | Casing | Top - MD | Bottom - MD | Weight lb/ft | Grade | Thread |
|---|---|---|---|---|---|---|---|
| Conductor | 20" | 14" | surface | 40' | steel | Cond'r | none |
| Surface | 12-1/4" | 8-5/8" | surface | 480' | 24 | J-55 | STC |
| Production | 7-7/8" | 5-1/2" | surface | 6260' | 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 4118' MD

## 4. PROPOSED CEMENTING PROGRAM:

| String | Top / Bottom | Cement Description | Sacks / Vol (ft³) | Excess | Weight (ppg) | Yield (ft³/sk) |
|---|---|---|---|---|---|---|
| Conductor | 0 / 40 | Construction Grade Cement | Sufficient volumes to grout Conductor | | | |
| Surface | 0 / 480 | Class G +2% CaCl2 +0.25 lb/sk Cello Flake | 220 / 258 | 30% | 15.8 | 1.17 |
| Production Lead | 0 / 4118 | EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM) | 483 / 928 | 30% | 12.5 | 1.92 |
| Production Tail | 4118 / 6260 | EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM) | 331 / 483 | 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 longstring 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 2877'MD



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**DUCHESNE COUNTY, UTAH**

## 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

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

**BOPE TESTING PROCEDURE:**

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

## 6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 480'. All cuttings 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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**UTE TRIBAL 09-13**
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**DUCHESNE COUNTY, UTAH**

B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 480' to 6260'. 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 8.3-8.4 lbs/gal.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND CHEMICALS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM 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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**SW SW, SEC 9, T5S, R3W**
**DUCHESNE COUNTY, UTAH**

## 7. EVALUATION PROGRAM:

| | | |
|---|---|---|
| Logs: | Triple Combo | TD to base of surface casing (AIT, DSN, CDL)<br>Base of surface casing to surface (GR) |
| 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 $H_2S$ 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 1565 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

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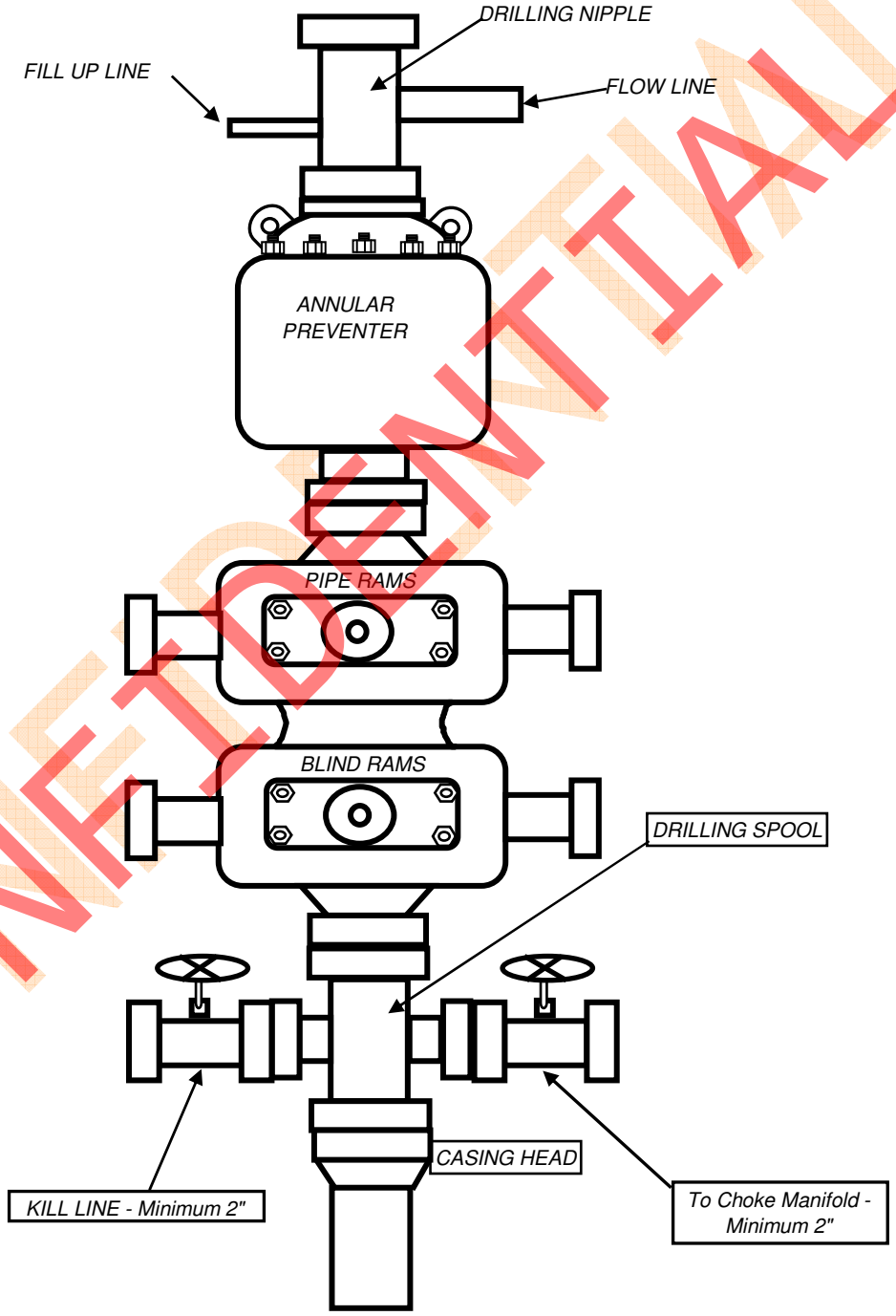
**EIGHT POINT DRILLING PLAN**
**PETROGLYPH OPERATING COMPANY, INC**
**UTE TRIBAL 09-13**
**SW SW, SEC 9, T5S, R3W**
**DUCHESNE COUNTY, UTAH**

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

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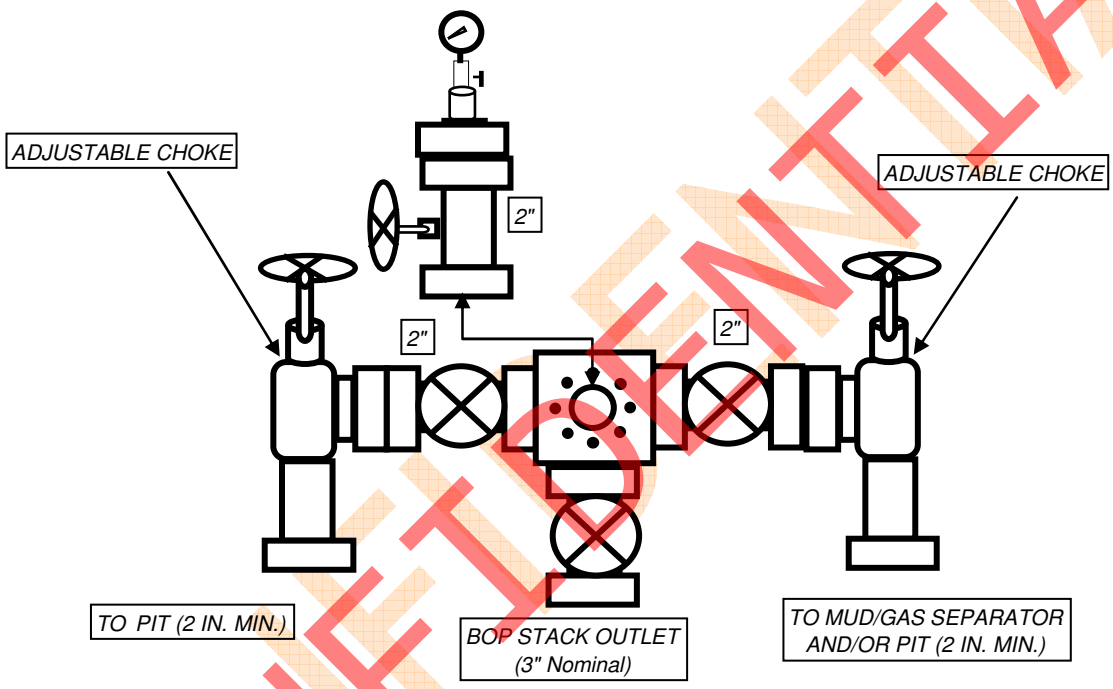
**EIGHT POINT DRILLING PLAN**
**PETROGLYPH OPERATING COMPANY, INC**
**UTE TRIBAL 09-13**
**SW SW, SEC 9, T5S, R3W**
**DUCHESNE COUNTY, UTAH**

## TYPICAL 2,000 p.s.i. CHOKE MANIFOLD

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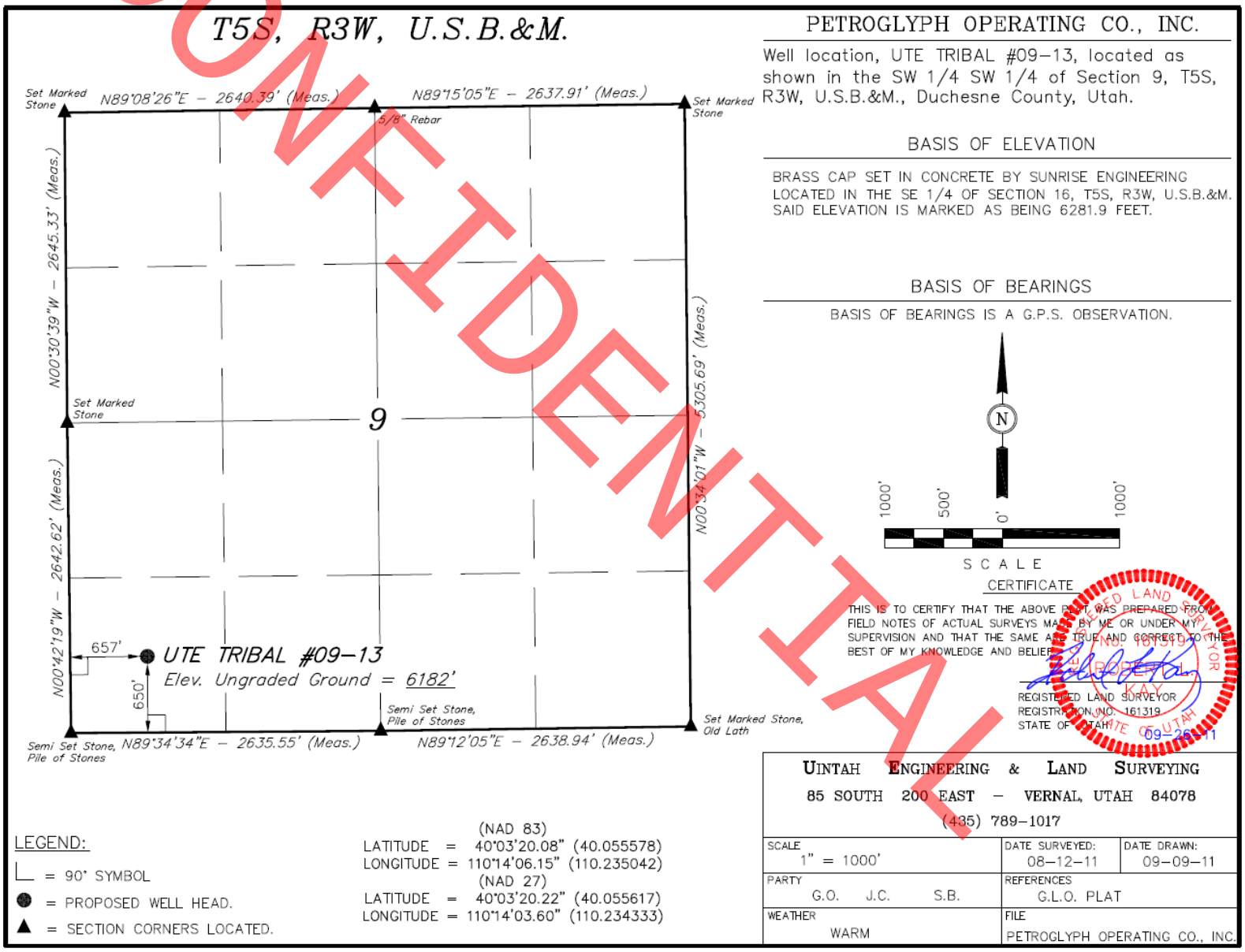
API Well Number: 4301351199000

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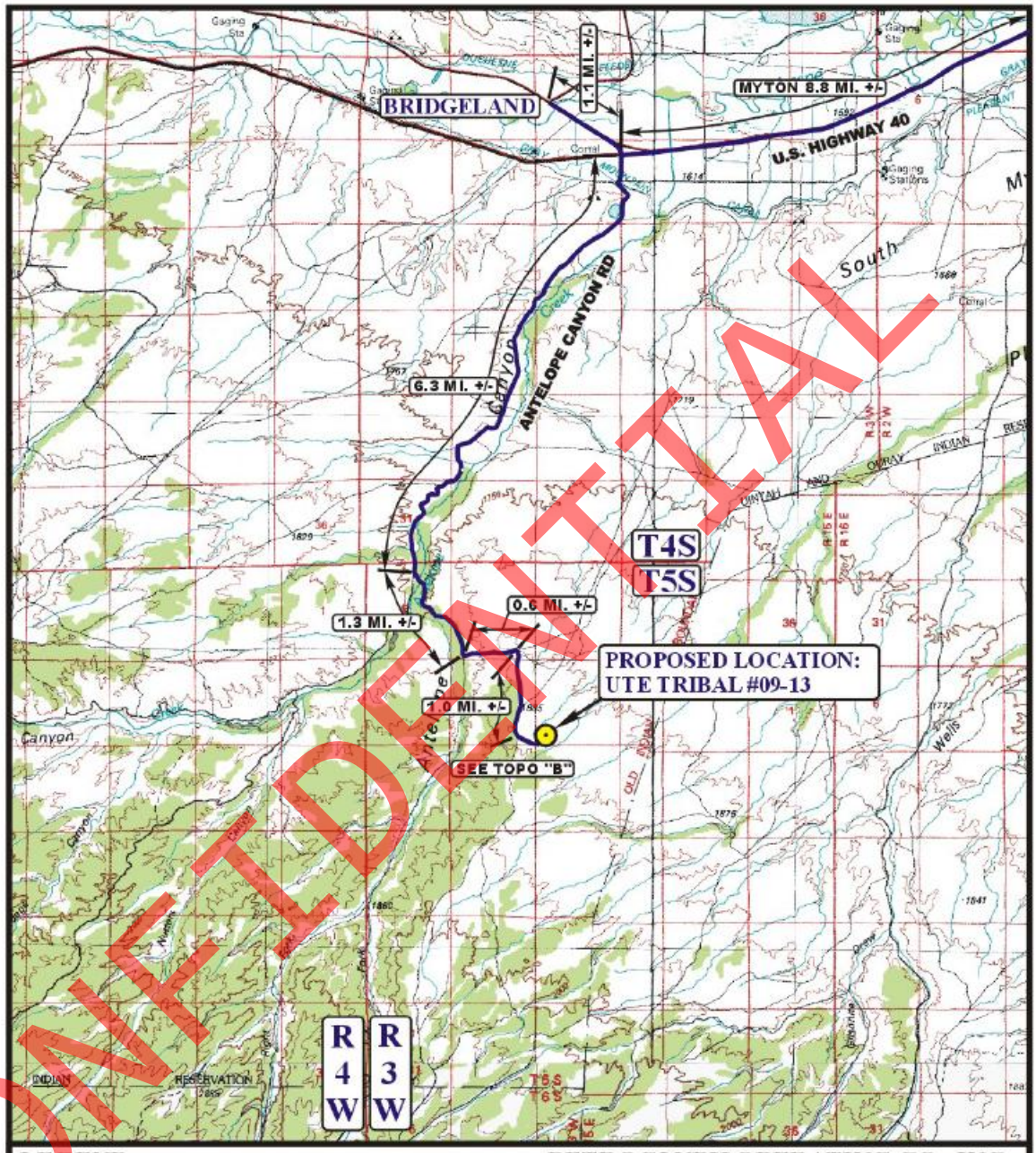



LEGEND:

PROPOSED LOCATION

N

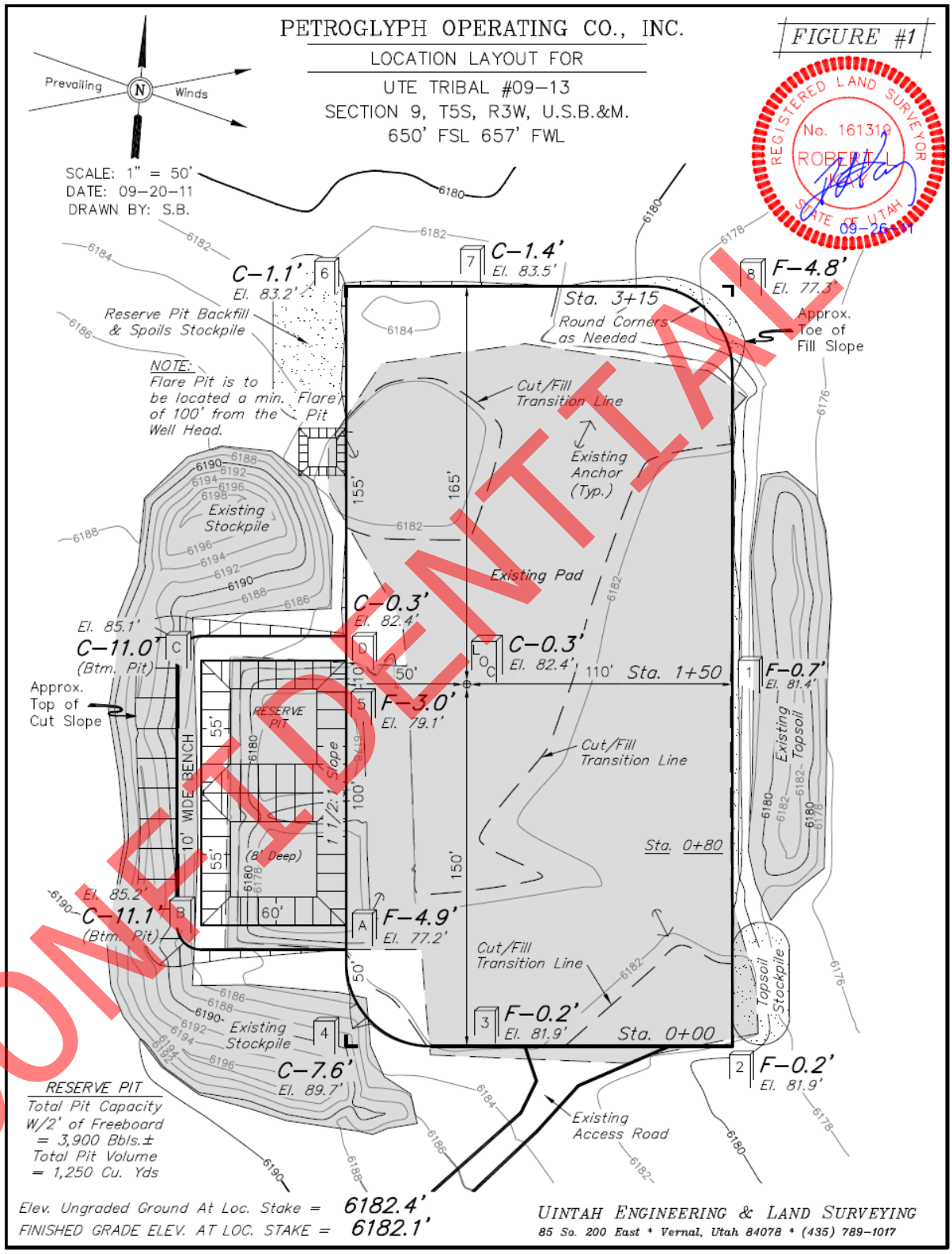
PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #09-13
SECTION 9, T5S, R3W, U.S.B.&M.
650' FSL 657'FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

| ACCESS ROAD MAP | 08 MONTH | 24 DAY | 11 YEAR | A TOPO |
|---|---|---|---|---|
| SCALE: 1:100,000 | DRAWN BY: B.D.H. | REVISED: 00-00-00 | | |

RECEIVED: January 27, 2012

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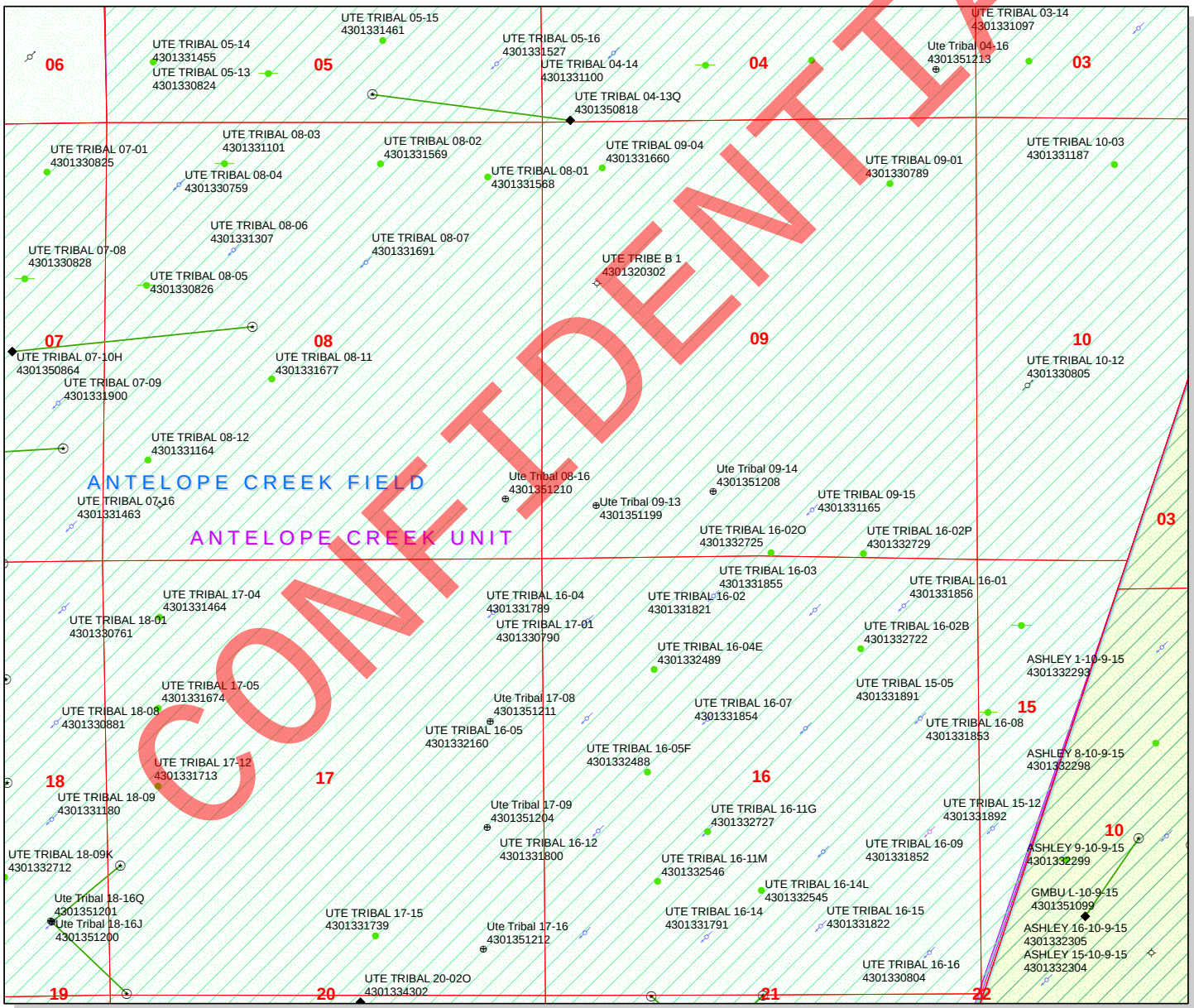
RECEIVED: January 27, 2012

API Well Number: 43013511990000




**API Number: 4301351199**

**Well Name: Ute Tribal 09-13**

**Township T0.5 . Range R0.3 . Section 09**

**Meridian: UBM**

Operator: PETROGLYPH OPERATING CO

Map Prepared:
Map Produced by Diana Mason

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

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

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

1,500 750 0 1,500 Feet

1:14,923

RECEIVED: February 01, 2012

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/27/2012
**API NO. ASSIGNED:** 43013511990000
**WELL NAME:** Ute Tribal 09-13
**OPERATOR:** PETROGLYPH OPERATING CO (N3800)
**PHONE NUMBER:** 435 789-4120
**CONTACT:** Ed Trotter

**PROPOSED LOCATION:** SWSW 09 050S 030W
**Permit Tech Review:** ✔
**SURFACE:** 0650 FSL 0657 FWL
**Engineering Review:** ☐
**BOTTOM:** 0650 FSL 0657 FWL
**Geology Review:** ✔
**COUNTY:** DUCHESNE
**LATITUDE:** 40.05552
**LONGITUDE:** -110.23512
**UTM SURF EASTINGS:** 565237.00
**NORTHINGS:** 4434200.00
**FIELD NAME:** ANTELOPE CREEK
**LEASE TYPE:** 2 - Indian
**LEASE NUMBER:** BIA 14-20-H62-3508
**PROPOSED PRODUCING FORMATION(S):** CASTLE PEAK
**SURFACE OWNER:** 2 - Indian
**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- ✔ **PLAT**
- ✔ **Bond:** INDIAN - LP4138153
- ☐ **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
ENH REC PROJ:

**Stipulations:** 4 - Federal Approval - dmason

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RECEIVED: February 02, 2012

GARY R. HERBERT
*Governor*
GREGORY S. BELL
*Lieutenant Governor*

**State of Utah**
**DEPARTMENT OF NATURAL RESOURCES**
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

# Permit To Drill

**********

**Well Name:** Ute Tribal 09-13
**API Well Number:** 43013511990000
**Lease Number:** BIA 14-20-H62-3508
**Surface Owner:** INDIAN
**Approval Date:** 2/2/2012

**Issued to:**
PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

**Authority:**
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the CASTLE PEAK 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.

**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

API Well No: 43013511990000

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

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

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-H62-3508

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANTELOPE CREEK

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** Ute Tribal 09-13

**2. NAME OF OPERATOR:** PETROGLYPH OPERATING CO

**9. API NUMBER:** 43013511990000

**3. ADDRESS OF OPERATOR:** 960 Broadway Ave, Ste 500 , Bosie, ID, 83703

**PHONE NUMBER:** 208 685-7674 Ext

**9. FIELD and POOL or WILDCAT:** ANTELOPE CREEK

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0650 FSL 0657 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSW Section: 09 Township: 05.0S Range: 03.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ✓ SPUD REPORT — Date of Spud: 7/17/2012
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

We spudded this well on 7/17/2012. We set 40' of 14" conductor.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
July 20, 2012

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Rodrigo Jurado | 435 722-5302 | Regulatory & Compliance Spc |

| SIGNATURE | DATE |
|---|---|
| N/A | 7/20/2012 |

RECEIVED: Jul. 20, 2012

Form 3160-3
(August 2007)

RECEIVED
FEB 24 2012
BLM Vernal, Utah

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

5. Lease Serial No.
**14-20-H62-3508**

6. If Indian, Allottee or Tribe Name
**UTE INDIAN TRIBE**

7. If Unit or CA Agreement, Name and No.
**BIA 14-20-H62-4650**

8. Lease Name and Well No.
**UTE TRIBAL 09-13**

1a. Type of Work: [X] DRILL [ ] REENTER

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

2. Name of Operator
**PETROGLYPH OPERATING CO., INC.**

9. API Well No.
43-013-51199

3a. Address **P.O. BOX 607, ROOSEVELT, UT 84066**

3b. Phone No. *(Include area code)*
**(435)722-2531**

10. Field and Pool, or Exploratory
**ANTELOPE CREEK**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **650' FSL, 657' FWL** **SW/SW**

CONFIDENTIAL

At proposed prod. Zone

11. Sec., T., R., M., or Blk. and Survey or Area
**SEC. 9, T5S, R3W, U.S.B.&M.**

14. Distance in miles and direction from nearest town or post office*
**18.4 MILES SOUTHWEST OF MYTON, UTAH**

12. County or Parish
**DUCHESNE**

13. State
**UTAH**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) **650'**

16. No. of Acres in lease
**640.0**

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See Topo Map "C"**

19. Proposed Depth
**6200'**

20. BLM/BIA Bond No. on file
**#LP4138153**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
**6182.1 FEET GRADED GROUND**

22. Approximate date work will start*
**UPON APPROVAL**

23. Estimated duration
**45 DAYS**

24. Attachments

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

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

25. Signature

Name *(Printed/Typed)*
Ed Trotter

RECEIVED
JUL 13 2012
DIV. OF OIL, GAS & MINING

Date
January 20, 2012

Title
Agent

Approved by *(Signature)*

Name *(Printed/Typed)*
Jerry Kenczka

Date
JUL 06 2012

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

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

UDOGM

*(Continued on page 2)

NOTICE OF APPROVAL

12SS0909A

NOS 10/11/2011

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., Inc** | **Location:** | **SWSW, Sec. 9, T5S, R3W** |
| **Well No:** | **Ute Tribal 09-13** | **Lease No:** | **14-20-H62-3508** |
| **API No:** | **43-013-51199** | **Agreement:** | **Antelope Creek** |

# 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. |
| 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)*

Additional Stipulations:

- 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 as set forth by those owners and/or agencies.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.

- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.

- The Ute Tribe Energy & Minerals Department and the BLM will be notified, in writing 48 hours prior to construction of pipeline.

- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.

- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.

- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.

- You are hereby notified that working under the *"umbrella"* of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

-

- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet. All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

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

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

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

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

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

**OPERATING REQUIREMENT REMINDERS:**

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

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

- 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 /Air rig
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 09-13
Qtr/Qtr SWSW Section 09 Township 5S Range 3W
Lease Serial Number 14-20-H62-3508
API Number 43-013-51199

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

Date/Time 7/17/2012 2:00 AM ☐ PM ☒

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

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

Date/Time _____ _____ AM ☐ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

RECEIVED
JUL 16 2012
DIV. OF OIL, GAS & MINING

Remarks We plan to set 40' of 14" conductor.
(Sent 7/16/2012 @ 4:15 PM)

CONFIDENTIAL

# BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Air rig
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 09-13
Qtr/Qtr SWSW Section 09 Township 5S Range 3W
Lease Serial Number 14-20-H62-3508
API Number 43-013-51199

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 7/19/2012 11:50 AM ☐ PM ☒

BOPE

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

RECEIVED
JUL 18 2012
DIV. OF OIL, GAS & MINING

Date/Time _____ _____ AM ☐ PM ☐

Remarks We intend to run approx 500' of 8-5/8" J-55 Casing. (Sent 7/18/2012)

FORM 6

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

# ENTITY ACTION FORM

Operator: Petroglyph Operating Company
Address: P.O. Box 607
city Roosevelt
state UT zip 84066

Operator Account Number: N 3800
Phone Number: (435) 722-2531

**Well 1**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4301351210 | Ute Tribal 08-16 | | SESE | 8 | 5S | 3W | Duchesne |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| A | 99999 | 18639 | 7/16/2012 | | | 7/31/2012 | |

**Comments:** Please create a new entity for this well, it will be called the Ute Tribal 08-16 Tank Battery
GRRV

CONFIDENTIAL

**Well 2**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4301351199 | Ute Tribal 09-13 | | SWSW | 9 | 5S | 3W | Duchesne |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| B | 99999 | 18639 | 7/17/2012 | | | 7/31/12 | |

**Comments:** Please add this well to the Ute Tribal 08-16 Tank Battery.
GRRV

CONFIDENTIAL

**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** | |
| | | | | | | | |

**Comments:**

**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)

RECEIVED
JUL 23 2012
Div. of Oil, Gas & Mining

Rodrigo Jurado
Name (Please Print)

Signature

Regulatory Compliance Spc. 7/20/2012
Title Date

(5/2000)

***FEDERAL APPROVAL OF THIS ACTION IS NECESSARY***

**FORM 9**

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-H62-3508

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANTELOPE CREEK

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** UTE TRIBAL 09-13

**2. NAME OF OPERATOR:** PETROGLYPH OPERATING CO

**9. API NUMBER:** 43013511990000

**3. ADDRESS OF OPERATOR:** 960 Broadway Avenue, Ste 500 , Bosie, ID, 83703

**PHONE NUMBER:** 208 685-7685 Ext

**9. FIELD and POOL or WILDCAT:** ANTELOPE CREEK

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0650 FSL 0657 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSW Section: 09 Township: 05.0S Range: 03.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ✓ NOTICE OF INTENT — Approximate date work will start: 8/27/2012
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

On 8/27/2012 Petroglyph Operating Company, Inc. plans to perforate and frac the following: B8.1: 4437-4441, B10: 4512-4526, B11.1: 4540-4543, B12: 4525-4526, C1: 4644-4656, C3.2: 4730-4732, C4:4780-4790, C5.2: 4847-4851, C5.3: 4869-4873, C6: 4937-4948, 4955-4960, D5: 5317-5325, E1.2: 5768-5772, E5: 5950-5952, E6: 5982-5984 & E7: 6026-6030, 6041-6045. All perforations will be made using Titan 3 1/8" Perf guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120* phased. We will frac using Delta 140 15# gelled fluid containing 20/40 mesh sand. Volumes and amounts will be reported at a later date.

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

**Date:** August 27, 2012

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Rodrigo Jurado | 435 722-5302 | Regulatory & Compliance Spc |

| SIGNATURE | DATE |
|---|---|
| N/A | 8/21/2012 |

**RECEIVED: Aug. 21, 2012**

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-H62-3508

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANTELOPE CREEK

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** UTE TRIBAL 09-13

**2. NAME OF OPERATOR:** PETROGLYPH OPERATING CO

**9. API NUMBER:** 43013511990000

**3. ADDRESS OF OPERATOR:** 960 Broadway Avenue, Ste 500 , Bosie, ID, 83703

**PHONE NUMBER:** 208 685-7685 Ext

**9. FIELD and POOL or WILDCAT:** ANTELOPE CREEK

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0650 FSL 0657 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSW Section: 09 Township: 05.0S Range: 03.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 9/20/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

The date of first production for this well was 09/20/2012.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
October 01, 2012

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Rodrigo Jurado | 435 722-5302 | Regulatory & Compliance Spc |

| SIGNATURE | DATE |
|---|---|
| N/A | 9/27/2012 |

RECEIVED: Sep. 27, 2012

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-H62-3508

## SUNDRY NOTICES AND REPORTS ON WELLS

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

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

**7.UNIT or CA AGREEMENT NAME:** ANTELOPE CREEK

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** UTE TRIBAL 09-13

**2. NAME OF OPERATOR:** PETROGLYPH OPERATING CO

**9. API NUMBER:** 43013511990000

**3. ADDRESS OF OPERATOR:** 960 Broadway Avenue, Ste 500 , Bosie, ID, 83703

**PHONE NUMBER:** 208 685-7685 Ext

**9. FIELD and POOL or WILDCAT:** ANTELOPE CREEK

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0650 FSL 0657 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSW Section: 09 Township: 05.0S Range: 03.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

**TYPE OF SUBMISSION**

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 9/21/2012
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

**TYPE OF ACTION**

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

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

On 8/23/2012 Petroglyph Operating ran GR/CBL and found ETOC @ Surface. We perforated the following: 6041-45, 6026-30, 5982-84, 5950-52, 5768-72, 5317-25, 4955-60, 4937-48, 4869-73, 4847-4851, 4780-90, 4730-32, 4644-56, 4625-26, 4540-43, 4512-26 & 4437-41. We frac'd the following intervals: 5950-6045 w/ 486 Bbls fluid cont 28,860#'s of sand 5768-5772 w/ 290 Bbls fluid cont 11,910#'s of sand 5317-5325 w/ 357 Bbls fluid cont 19,200#'s of sand 4847-4960 w/ 493 Bbls fluid cont 35,070#'s of sand 4730-4790 w/ 444 Bbls fluid cont 34,810#'s of sand 4625-4656 w/ 426 Bbls fluid cont 29,710#'s of sand 4437-4543 w/ 604 Bbls fluid cont 51,920#'s of sand. We perforated using Titan 3 1/8" perf guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4spf @ 120* phased. Sand used was 20/40 mesh Premium White. Well was cleaned out to PBTD 6113 and a pump was ran 9/20/2012. Well PTP 9/21/2012.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
October 25, 2012

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Rodrigo Jurado | 435 722-5302 | Regulatory & Compliance Spc |

| SIGNATURE | DATE |
|---|---|
| N/A | 10/19/2012 |

RECEIVED: Oct. 19, 2012

CONFIDENTIAL

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: 14-20-H62-3508

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650

8. WELL NAME and NUMBER: Ute Tribal 09-13

9. API NUMBER: 4301351199

10 FIELD AND POOL, OR WILDCAT: Antelope Creek

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 9 5S 3W

12. COUNTY:

13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066

PHONE NUMBER: (435) 722-2531

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 650' FSL, 657' FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 646' FSL, 646' FWL

AT TOTAL DEPTH: 627' FSL, 641' FWL BHL by HSM

14. DATE SPUDDED: 7/17/2012

15. DATE T.D. REACHED: 8/11/2012

16. DATE COMPLETED: 9/20/2012 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 6197' RKB

18. TOTAL DEPTH: MD 6,170 TVD 6,169

19. PLUG BACK T.D.: MD 6,113 TVD 6,112

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

ACTR, Borehole Volume, SDDSN, Cement Bond Log

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (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 |
|---|---|---|---|---|---|---|---|---|---|
| 20" | 16" J-55 | 75 | 0 | 54 | | | | | Conductor |
| 12.25" | 8.625" J-55 | 24 | 0 | 517 | | G 350 | 71 | 0 | |
| 7.875" | 5.5" J-55 | 15.5 | 0 | 6,158 | | G 850 | 263 | 0 | CBL |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**25. TUBING RECORD**

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2.875" | 5,982 | | | | | | | |

**26. PRODUCING INTERVALS**

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) Green River | 4,437 | 6,030 | 4,437 | 6,029 |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

**27. PERFORATION RECORD**

| INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|
| 4,437 6,030 | 0.42 | 376 | Open ☑ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |

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

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 4,437'-6,030' | 3,100 Bbls of Delta 140 15# Gelled Fluid containing 211,480#'s of 20/40 mesh sand. |
| | |
| | |

**29. ENCLOSED ATTACHMENTS:**

☑ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☑ DIRECTIONAL SURVEY
☑ OTHER: UDOGM Form 7

**30. WELL STATUS:** POW

(5/2000)

(CONTINUED ON BACK)

RECEIVED
NOV 19 2012
DIV. OF OIL, GAS & MINING

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

| DATE FIRST PRODUCED: | | TEST DATE: | | HOURS TESTED: | | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9/20/2012 | | 10/20/2012 | | 24 | | | 185 | 413 | 27 | Rod Pump |
| 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: |
| 38/64 | 85 | 92 | 39.90 | 1 | 2,232 | | 185 | 413 | 27 | 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.

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. |
|---|---|---|---|
| | | | |

**34. FORMATION (Log) MARKERS:**

| Name | Top (Measured Depth) |
|---|---|
| Trona | 2,870 |
| Mahogany | 3,010 |
| B Marker | 4,116 |
| X Marker | 4,602 |
| B Lime | 5,136 |
| Castle Peak | 5,712 |
| Basal Carbonate | 6,113 |

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

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

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Spc.

SIGNATURE DATE 11/9/2012

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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

FORM 7

**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 09-13

API number: 4301351199

Well Location: QQ SWSW Section 9 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: Craig's Roustabout Service

Address: 5053 South 4625 East

city Vernal state UT zip 84066 Phone: (435) 781-1366

Water encountered (attach additional pages as needed):

| DEPTH | | VOLUME | QUALITY |
|---|---|---|---|
| FROM | TO | (FLOW RATE OR HEAD) | (FRESH OR SALTY) |
| 0 | 500 | 0 | Dust to 500' |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Formation tops: (Top to Bottom)

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 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) Jerry Jenkins TITLE Production Foreman

SIGNATURE Jerry Jenkins DATE 7/27/2012

(5/2000)

| | |
|---|---|
| **Job Number: UT121018** | **State/Country: UT** |
| **Company: Petroglyph** | **Declination: 11.27** |
| **Lease/Well: Ute Tribal 09-13** | **Grid: True** |
| **Location: Section 9, T5S, R3W** | **File name: C:\WINSERVE\UT121018.SVY** |
| **Rig Name: Aztec 673** | **Date/Time: 11-Aug-12 / 23:24** |
| **RKB: 6196** | **Curve Name: Actual** |
| **G.L. or M.S.L.: 6181 GL** | |

## Payzone Directional

WINSERVE SURVEY CALCULATIONS
*Minimum Curvature Method*
*Vertical Section Plane .00*
*Vertical Section Referenced to Wellhead*
*Rectangular Coordinates Referenced to Wellhead*

| *Measured Depth FT* | *Incl Angle Deg* | *Drift Direction Deg* | *True Vertical Depth* | *N-S FT* | *E-W FT* | *Vertical Section FT* | *CLOSURE Distance FT* | *CLOSURE Direction Deg* | *Dogleg Severity Deg/100* |
|---|---|---|---|---|---|---|---|---|---|
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 527.00 | 1.36 | 89.44 | 526.95 | .06 | 6.25 | .06 | 6.25 | 89.44 | .26 |
| 892.00 | 1.41 | 75.38 | 891.84 | 1.24 | 14.93 | 1.24 | 14.98 | 85.26 | .09 |
| 1234.00 | .62 | 288.03 | 1233.82 | 2.87 | 17.24 | 2.87 | 17.48 | 80.54 | .57 |
| 1606.00 | .53 | 260.30 | 1605.80 | 3.20 | 13.63 | 3.20 | 14.00 | 76.77 | .08 |
| 1979.00 | .83 | 246.37 | 1978.77 | 1.83 | 9.46 | 1.83 | 9.63 | 79.04 | .09 |
| 2351.00 | .48 | 299.80 | 2350.75 | 1.53 | 5.64 | 1.53 | 5.84 | 74.85 | .18 |
| 2723.00 | .66 | 259.24 | 2722.73 | 1.90 | 2.18 | 1.90 | 2.89 | 48.92 | .12 |
| 3095.00 | .53 | 251.82 | 3094.71 | .96 | -1.56 | .96 | 1.83 | 301.70 | .04 |
| 3468.00 | 1.01 | 235.60 | 3467.68 | -1.43 | -5.91 | -1.43 | 6.08 | 256.38 | .14 |
| 3840.00 | .83 | 242.81 | 3839.63 | -4.52 | -11.01 | -4.52 | 11.90 | 247.71 | .06 |
| 4212.00 | .44 | 27.56 | 4211.62 | -4.48 | -12.75 | -4.48 | 13.51 | 250.64 | .33 |
| 4585.00 | .44 | 144.06 | 4584.61 | -4.37 | -11.25 | -4.37 | 12.06 | 248.76 | .20 |

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | CLOSURE Distance FT | CLOSURE Direction Deg | Dogleg Severity Deg/100 |
|---|---|---|---|---|---|---|---|---|---|
| 4957.00 | 1.23 | 178.08 | 4956.57 | -9.52 | -10.27 | -9.52 | 14.00 | 227.19 | .24 |
| 5329.00 | .62 | 218.42 | 5328.53 | -15.08 | -11.39 | -15.08 | 18.90 | 217.06 | .23 |
| 5702.00 | .53 | 201.70 | 5701.51 | -18.27 | -13.28 | -18.27 | 22.59 | 216.02 | .05 |
| 6108.00 | .88 | 216.13 | 6107.48 | -22.53 | -15.81 | -22.53 | 27.53 | 215.07 | .10 |
| **Projection to Bit** | | | | | | | | | |
| 6170.00 | .88 | 216.13 | 6169.47 | -23.30 | -16.38 | -23.30 | 28.48 | 215.10 | .00 |