

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> Ute Tribal 33-03				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ANTELOPE CREEK				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> ANTELOPE CREEK				
<b>6. NAME OF OPERATOR</b> PETROGLYPH OPERATING CO						<b>7. OPERATOR PHONE</b> 208 685-7674				
<b>8. ADDRESS OF OPERATOR</b> 960 Broadway Ave, Ste 500, Bosie, ID, 83703						<b>9. OPERATOR E-MAIL</b> bwest@pgei.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 14-20-H62-3522			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b> Ute Indian Tribe			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		122 FNL 2622 FWL		NENW	33	5.0 S	3.0 W	U		
Top of Uppermost Producing Zone		790 FNL 2580 FWL		NENW	33	5.0 S	3.0 W	U		
At Total Depth		790 FNL 2580 FWL		NENW	33	5.0 S	3.0 W	U		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 569			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 369				
<b>27. ELEVATION - GROUND LEVEL</b> 6591			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1345			<b>26. PROPOSED DEPTH</b> MD: 6236 TVD: 6116				
<b>28. BOND NUMBER</b> BO 4556			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8342							
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
COND	18	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	10.0	Class G	221	1.17	15.8
PROD	7.875	5.5	0 - 6236	15.5	J-55 LT&C	10.0	Class G	472	1.91	12.5
							Class G	345	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 checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Ed Trotter				<b>TITLE</b> Agent			<b>PHONE</b> 435 789-4120			
<b>SIGNATURE</b>				<b>DATE</b> 08/31/2011			<b>EMAIL</b> edtrotter@easilink.com			
<b>API NUMBER ASSIGNED</b> 43013509500000				<b>APPROVAL</b>   Permit Manager						

**CONFIDENTIAL**  
**NINE POINT PLAN**

**UTE TRIBAL 33-03**  
**NE/NW, SEC. 33, T5S, R3W**  
**DUCHESNE COUNTY, UTAH**

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

<b>FORMATIONS</b>	<b>DEPTH</b>	<b>SUBSEA</b>
Uinta	Surface	Surface
Green River	1511	5080
Trona	2764	3840
Mahogany Shale	2899	3706
“B” Marker	4004	2609
“X” Marker	4460	2157
Douglas Creek	4601	2017
“B” Limestone	4973	1648
B/Castle Peak Limestone	5523	1102
BSCARB	5955	673
WSTC	6235	395
Total Depth	6236	
Anticipated Maximum BHP	1900	

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

<b><u>Substance</u></b>	<b><u>Formation</u></b>	<b><u>Depth</u></b>	<b><u>Subsea</u></b>
Oil/Gas	Douglas Creek	4601	2017
Oil/Gas	B/Castle Peak	5523	1102
Base of moderately saline ground water	Green River	1991	4600

**3. PRESSURE CONTROL EQUIPMENT: See attached 2000 psi BOP Schematic Diagram.****BOPE TESTING PROCEDURE:**

1. The BOPE will be tested by a professional tester to conform to Onshore Order #2.
2. The flow line will have a minimum diameter of 10”.

**4. CASING PROGRAM:**

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18”	14”	sfc	40’	steel	cond	none
12 1/4”	8 5/8”	sfc	480’	24.0	J-55	STC
7 7/8”	5 1/2”	sfc	6236’	15.5	J-55	LTC

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**UTE TRIBAL 33-03**  
**NE/NW, SEC. 33, T5S, R3W**  
**DUCHESNE COUNTY, UTAH**

Casing Strengths:				Collapse	Burst	Tensile
8 5/8"	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2"	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

**5. MUD PROGRAM**

**INTERVAL**

0' - 480'  
480' - 6236'

**MUD TYPE**

Air/Aerated Water  
Water with DAP or DAP alternative  
Gel/polyacrylamide polymer w/5-10% LCM, LSND as conditions warrant

Sufficient mud/kill medium inventory will be maintained on location in either tanks or the reserve pit during drilling of the surface and production holes to handle any adverse conditions that may arise. A mud weight of 9.5# to 10.5# will be maintained during drilling of the production hole. The rat and mouse holes will be drilled with the Air Rig after the surface casing is set. Rig mounted and skid mounted air compressors capable of producing 2200 CFM at 350 psi will be used.

**6. CEMENT PROGRAM:**

**20" Conductor:**

Cement to surface with construction cement.

**8 5/8" Casing: sfc - 480'**

**Lead/Tail Slurry: 0' - 480':** 221 sks (258 cu ft) Class G cement + 0.25 lbsk Cello Flake + 2% CaCl<sub>2</sub>. Slurry wt: 15.8 ppg, Slurry yield: 1.17 ft<sup>3</sup>/sk, Slurry volume: 12-1/4" hole + 30% excess. (Cement will be circulated to surface).

**5 1/2" Casing: sfc - 6236'**

**Lead Slurry: sfc - 4000':** 472 sks (901 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR 1/4 (Lost Circulation Material) (12.5 PPG±, 1.91 ft<sup>3</sup>/sk) hole + 30% excess.

**Tail Slurry:**

**4000' - 6236':** 345 sx (504 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR 1/4 (Lost Circulation Material) (13.4 ppg±, 1.46ft<sup>3</sup>/sk) hole + 30% excess. Cement will be circulated to surface with top job as needed.

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**NINE POINT PLAN**

**UTE TRIBAL 33-03  
NE/NW, SEC. 33, T5S, R3W  
DUCHESNE COUNTY, UTAH**

**7. VARIANCE REQUESTS:**

1. Operator requests a variance to regulations requiring the blooie line discharge be 100' from the well bore. Due to reduced location size, the blooie line discharge will be approximately 75' from the well bore and securely anchored.
2. Operator requests a variance to regulations requiring a straight run blooie line. Due to the location of the flare pit the blooie line will have two targeted "Ts".
3. Operator requests a variance to regulations requiring Deduster Equipment on the blooie line. A mister will be used at the end of the blooie line when drilling with air only.
4. Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. An air/air-mist drilling system will be used.
5. Operator requests a variance to regulations requiring the compressors be located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. Due to reduced location size the compressors will be located as close as is reasonable to the opposite direction from the blooie line and 75' from the well bore.
6. Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl will be utilized on the diverter system in place of a BOPE.

**8. EVALUATION PROGRAM:**

Logs: Platform Express TD to base of surface casing (DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated

DST: None Programmed

Completion: To be submitted at a later date.

**9. ABNORMAL CONDITIONS:**

None anticipated. Based on operators past drilling experience in the area the encounter of any over pressured formations or H<sub>2</sub>S are not anticipated.

**10 OPERATIONS:**

All engine exhausts within 100 feet of the well bore will be equipped with spark arrestors.

All cuttings and circulating medium shall be directed into the reserve or booie pit.

A float valve will be run above the bit with sufficient rating to prevent flow back.

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**NINE POINT PLAN**

**UTE TRIBAL 33-03**  
**NE/NW, SEC. 33, T5S, R3W**  
**DUCHESNE COUNTY, UTAH**

An air/mist and fluid/mud drilling system will be used.

All casing will be new or inspected.

Based on operators past drilling experience in the area the encounter of any over pressured formations or H<sub>2</sub>S are not anticipated.

**11. STANDARD REQUIRED EQUIPMENT:**

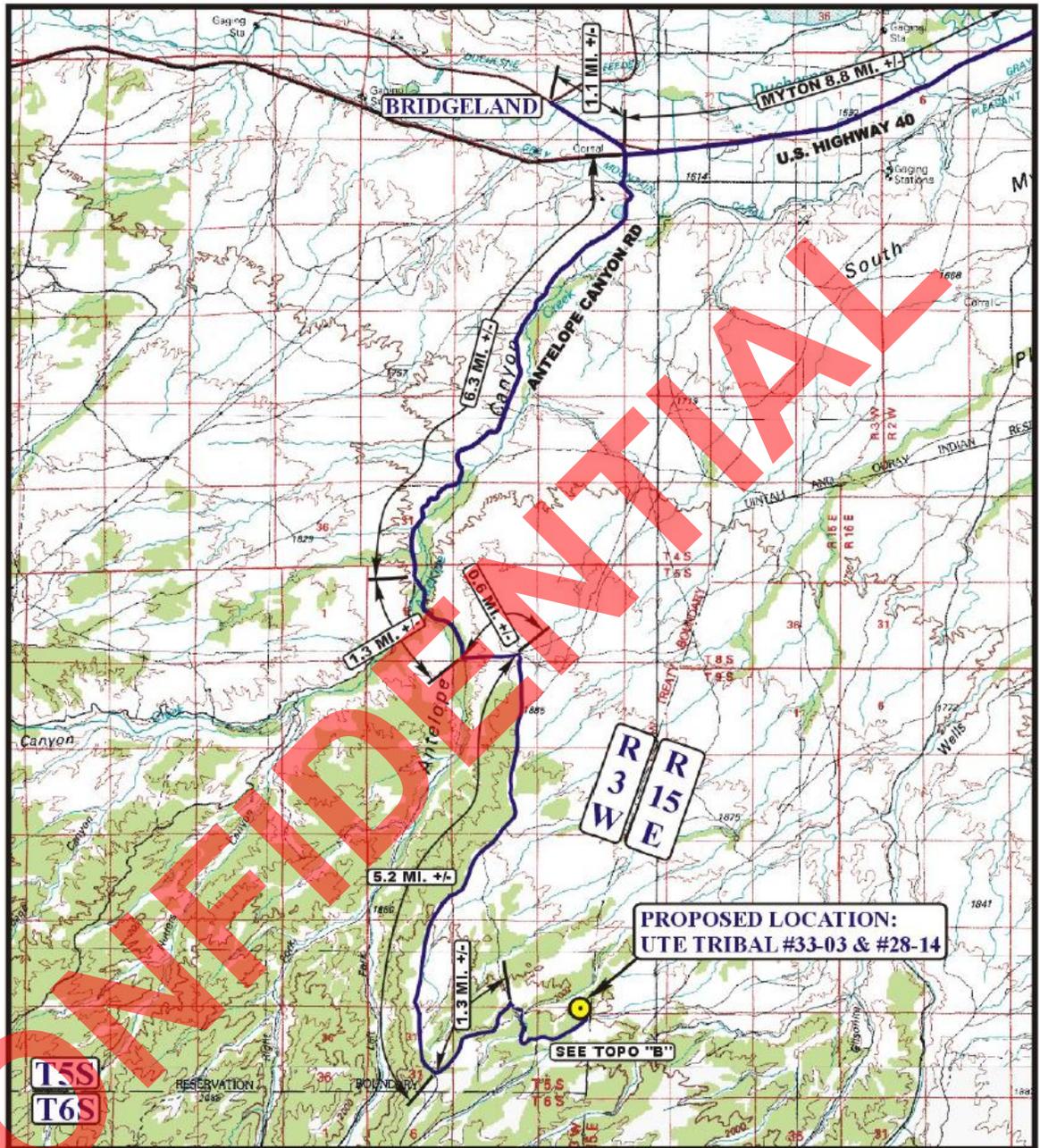
None Required

**12. HAZARDOUS CHEMICALS:**

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

(Attachment: BOP Schematic Diagram)





**LEGEND:**  
 PROPOSED LOCATION

**PETROGLYPH OPERATING CO., INC.**  
 UTE TRIBAL #33-03 & #28-14  
 SECTION 33, T5S, R3W, U.S.B.&M.  
 NE 1/4 NW 1/4

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

**TOPOGRAPHIC MAP** 03 28 11  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: S.F. REV: C.A.G.07.07.11 **TOPO**



**Scientific Drilling**  
Rocky Mountain Operations

Company: Petroglyph Operating Co. Inc.  
Project: Duchesne County, UT NAD83  
Site: UTE Tribal 28-14 & 33-03 Pad

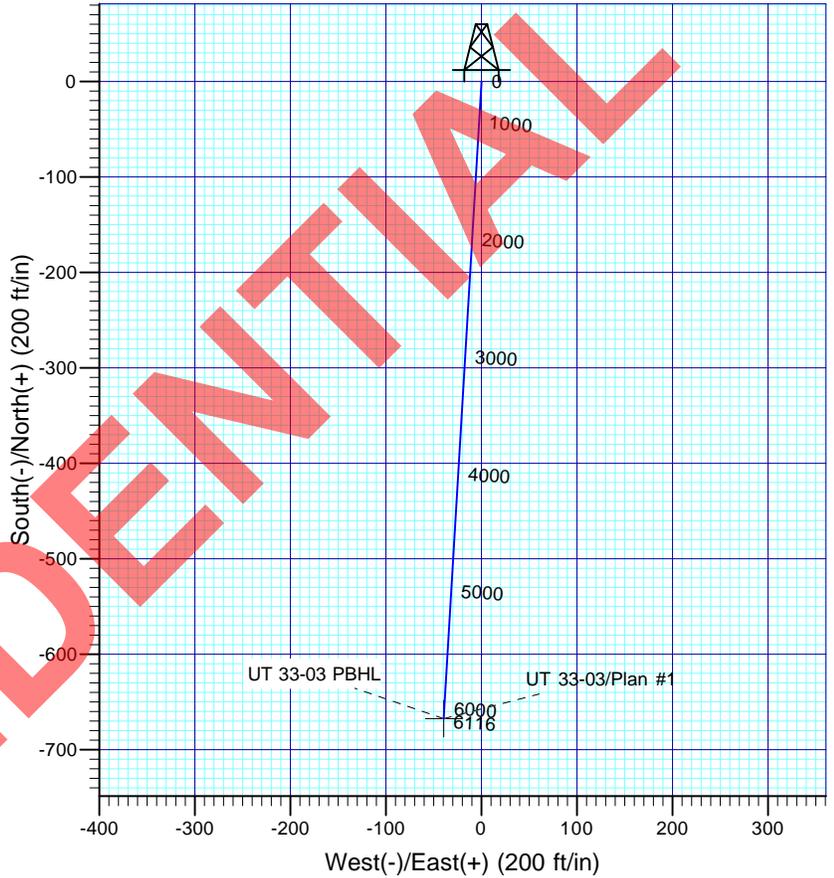
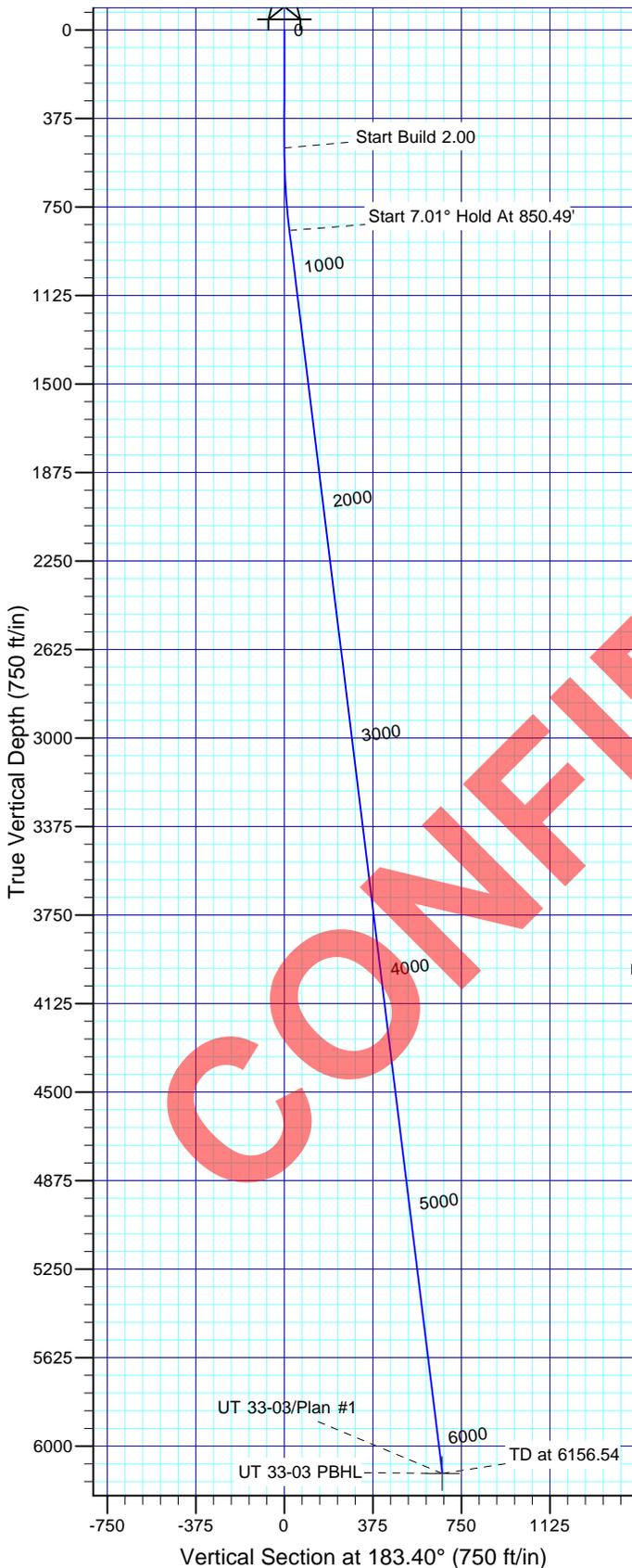
Well Details: UT 33-03

TVD Reference: GL 6591 @ 6591.00ft (Ground Level) Ground Level: 6591.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7174887.22	1996676.46	40° 0' 35.880 N	110° 13' 40.920 W	

T M Azimuths to True North  
Magnetic North: 11.36°

Magnetic Field  
Strength: 52204.6snT  
Dip Angle: 65.73°  
Date: 08/08/2011  
Model: IGRF2010



FORMATION TOP DETAILS

No formation data is available

Plan: Plan #1

13:14, August 08 2011  
Created By: Rex Hall

PROJECT DETAILS: Duchesne County, UT NAD83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
3	850.49	7.01	183.40	849.62	-21.38	-1.27	2.00	183.40	21.41	
4	6156.54	7.01	183.40	6116.00	-667.78	-39.68	0.00	0.00	668.96	UT 33-03 PBHL

# **Petroglyph Operating Co. Inc.**

Duchesne County, UT NAD83

UTE Tribal 28-14 & 33-03 Pad

UT 33-03

OH

Plan: Plan #1

## **Standard Planning Report**

08 August, 2011

**CONFIDENTIAL**

**Scientific Drilling International**  
Planning Report

<b>Database:</b>	Rockies Compass Server	<b>Local Co-ordinate Reference:</b>	Well UT 33-03
<b>Company:</b>	Petroglyph Operating Co. Inc.	<b>TVD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Project:</b>	Duchesne County, UT NAD83	<b>MD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Site:</b>	UTE Tribal 28-14 & 33-03 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UT 33-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	Duchesne County, UT NAD83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	UTE Tribal 28-14 & 33-03 Pad				
<b>Site Position:</b>		<b>Northing:</b>	7,174,907.44 usft	<b>Latitude:</b>	40° 0' 36.080 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,996,673.84 usft	<b>Longitude:</b>	110° 13' 40.950 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.81 °

<b>Well</b>	UT 33-03					
<b>Well Position</b>	<b>+N/-S</b>	-20.25 ft	<b>Northing:</b>	7,174,887.22 usft	<b>Latitude:</b>	40° 0' 35.880 N
	<b>+E/-W</b>	2.33 ft	<b>Easting:</b>	1,996,676.47 usft	<b>Longitude:</b>	110° 13' 40.920 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	6,591.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	08/08/11	11.35	65.73	52,205

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	183.40	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.49	7.01	183.40	849.62	-21.38	-1.27	2.00	2.00	0.00	183.40	
6,156.54	7.01	183.40	6,116.00	-667.78	-39.68	0.00	0.00	0.00	0.00	UT 33-03 PBHL

**Scientific Drilling International**  
 Planning Report

<b>Database:</b>	Rockies Compass Server	<b>Local Co-ordinate Reference:</b>	Well UT 33-03
<b>Company:</b>	Petroglyph Operating Co. Inc.	<b>TVD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Project:</b>	Duchesne County, UT NAD83	<b>MD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Site:</b>	UTE Tribal 28-14 & 33-03 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UT 33-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>										
600.00	2.00	183.40	599.98	-1.74	-0.10	1.75	2.00	2.00	2.00	0.00
700.00	4.00	183.40	699.84	-6.97	-0.41	6.98	2.00	2.00	2.00	0.00
800.00	6.00	183.40	799.45	-15.67	-0.93	15.69	2.00	2.00	2.00	0.00
850.49	7.01	183.40	849.62	-21.38	-1.27	21.41	2.00	2.00	2.00	0.00
<b>Start 7.01° Hold At 850.49'</b>										
900.00	7.01	183.40	898.76	-27.41	-1.63	27.46	0.00	0.00	0.00	0.00
1,000.00	7.01	183.40	998.01	-39.59	-2.35	39.66	0.00	0.00	0.00	0.00
1,100.00	7.01	183.40	1,097.26	-51.77	-3.08	51.86	0.00	0.00	0.00	0.00
1,200.00	7.01	183.40	1,196.51	-63.95	-3.80	64.07	0.00	0.00	0.00	0.00
1,300.00	7.01	183.40	1,295.77	-76.14	-4.52	76.27	0.00	0.00	0.00	0.00
1,400.00	7.01	183.40	1,395.02	-88.32	-5.25	88.48	0.00	0.00	0.00	0.00
1,500.00	7.01	183.40	1,494.27	-100.50	-5.97	100.68	0.00	0.00	0.00	0.00
1,600.00	7.01	183.40	1,593.52	-112.68	-6.70	112.88	0.00	0.00	0.00	0.00
1,700.00	7.01	183.40	1,692.78	-124.87	-7.42	125.09	0.00	0.00	0.00	0.00
1,800.00	7.01	183.40	1,792.03	-137.05	-8.14	137.29	0.00	0.00	0.00	0.00
1,900.00	7.01	183.40	1,891.28	-149.23	-8.87	149.50	0.00	0.00	0.00	0.00
2,000.00	7.01	183.40	1,990.53	-161.41	-9.59	161.70	0.00	0.00	0.00	0.00
2,100.00	7.01	183.40	2,089.79	-173.60	-10.32	173.90	0.00	0.00	0.00	0.00
2,200.00	7.01	183.40	2,189.04	-185.78	-11.04	186.11	0.00	0.00	0.00	0.00
2,300.00	7.01	183.40	2,288.29	-197.96	-11.76	198.31	0.00	0.00	0.00	0.00
2,400.00	7.01	183.40	2,387.54	-210.14	-12.49	210.52	0.00	0.00	0.00	0.00
2,500.00	7.01	183.40	2,486.80	-222.33	-13.21	222.72	0.00	0.00	0.00	0.00
2,600.00	7.01	183.40	2,586.05	-234.51	-13.94	234.92	0.00	0.00	0.00	0.00
2,700.00	7.01	183.40	2,685.30	-246.69	-14.66	247.13	0.00	0.00	0.00	0.00
2,800.00	7.01	183.40	2,784.55	-258.87	-15.38	259.33	0.00	0.00	0.00	0.00
2,900.00	7.01	183.40	2,883.81	-271.06	-16.11	271.53	0.00	0.00	0.00	0.00
3,000.00	7.01	183.40	2,983.06	-283.24	-16.83	283.74	0.00	0.00	0.00	0.00
3,100.00	7.01	183.40	3,082.31	-295.42	-17.55	295.94	0.00	0.00	0.00	0.00
3,200.00	7.01	183.40	3,181.56	-307.60	-18.28	308.15	0.00	0.00	0.00	0.00
3,300.00	7.01	183.40	3,280.82	-319.79	-19.00	320.35	0.00	0.00	0.00	0.00
3,400.00	7.01	183.40	3,380.07	-331.97	-19.73	332.55	0.00	0.00	0.00	0.00
3,500.00	7.01	183.40	3,479.32	-344.15	-20.45	344.76	0.00	0.00	0.00	0.00
3,600.00	7.01	183.40	3,578.57	-356.33	-21.17	356.96	0.00	0.00	0.00	0.00
3,700.00	7.01	183.40	3,677.83	-368.52	-21.90	369.17	0.00	0.00	0.00	0.00
3,800.00	7.01	183.40	3,777.08	-380.70	-22.62	381.37	0.00	0.00	0.00	0.00
3,900.00	7.01	183.40	3,876.33	-392.88	-23.35	393.57	0.00	0.00	0.00	0.00
4,000.00	7.01	183.40	3,975.58	-405.06	-24.07	405.78	0.00	0.00	0.00	0.00
4,100.00	7.01	183.40	4,074.84	-417.25	-24.79	417.98	0.00	0.00	0.00	0.00
4,200.00	7.01	183.40	4,174.09	-429.43	-25.52	430.19	0.00	0.00	0.00	0.00
4,300.00	7.01	183.40	4,273.34	-441.61	-26.24	442.39	0.00	0.00	0.00	0.00
4,400.00	7.01	183.40	4,372.59	-453.79	-26.97	454.59	0.00	0.00	0.00	0.00
4,500.00	7.01	183.40	4,471.85	-465.98	-27.69	466.80	0.00	0.00	0.00	0.00
4,600.00	7.01	183.40	4,571.10	-478.16	-28.41	479.00	0.00	0.00	0.00	0.00
4,700.00	7.01	183.40	4,670.35	-490.34	-29.14	491.21	0.00	0.00	0.00	0.00
4,800.00	7.01	183.40	4,769.60	-502.52	-29.86	503.41	0.00	0.00	0.00	0.00
4,900.00	7.01	183.40	4,868.86	-514.71	-30.59	515.61	0.00	0.00	0.00	0.00
5,000.00	7.01	183.40	4,968.11	-526.89	-31.31	527.82	0.00	0.00	0.00	0.00

Scientific Drilling International

Planning Report

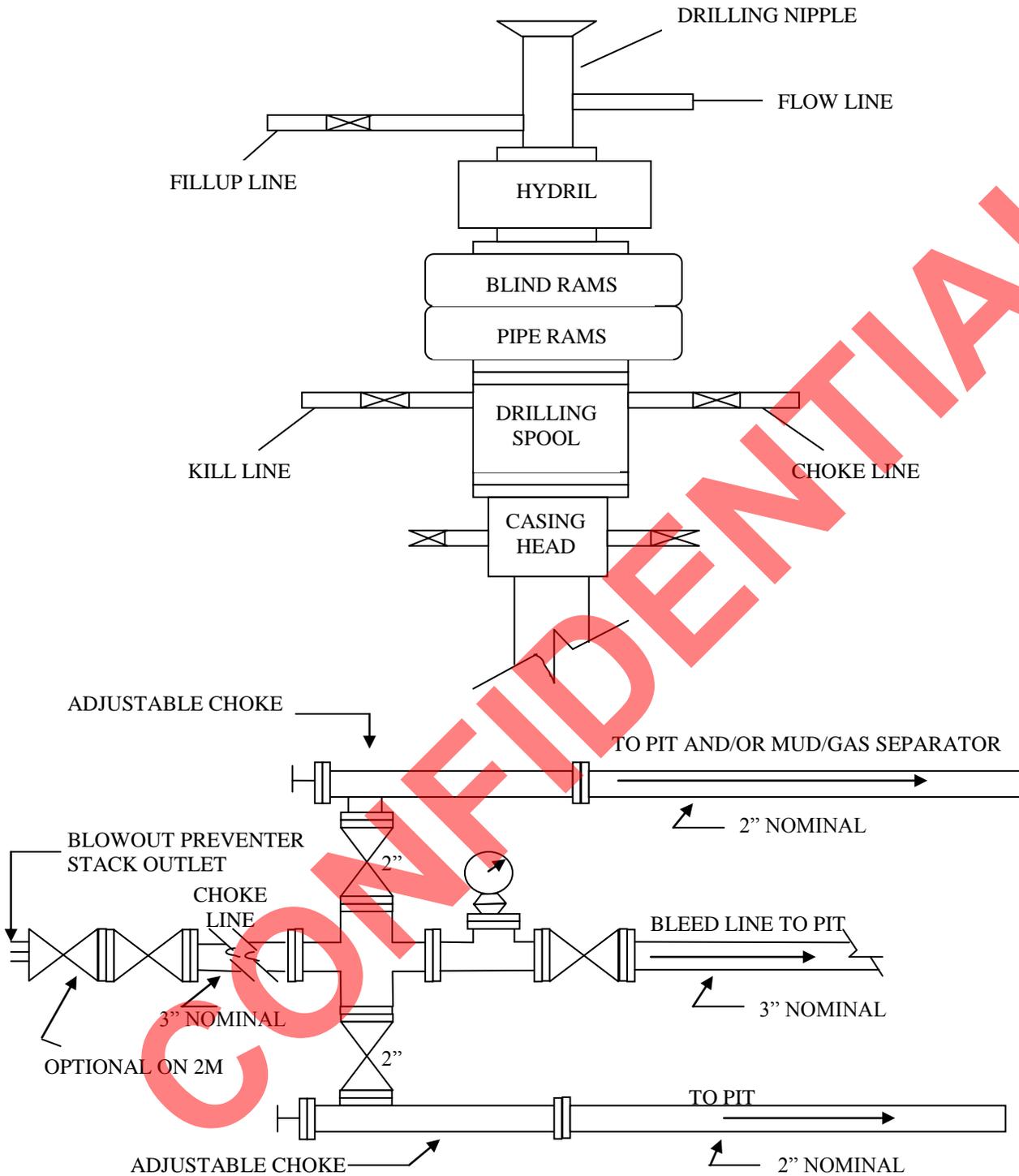
<b>Database:</b>	Rockies Compass Server	<b>Local Co-ordinate Reference:</b>	Well UT 33-03
<b>Company:</b>	Petroglyph Operating Co. Inc.	<b>TVD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Project:</b>	Duchesne County, UT NAD83	<b>MD Reference:</b>	GL 6591 @ 6591.00ft (Ground Level)
<b>Site:</b>	UTE Tribal 28-14 & 33-03 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UT 33-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	7.01	183.40	5,067.36	-539.07	-32.03	540.02	0.00	0.00	0.00
5,200.00	7.01	183.40	5,166.61	-551.25	-32.76	552.23	0.00	0.00	0.00
5,300.00	7.01	183.40	5,265.87	-563.44	-33.48	564.43	0.00	0.00	0.00
5,400.00	7.01	183.40	5,365.12	-575.62	-34.20	576.63	0.00	0.00	0.00
5,500.00	7.01	183.40	5,464.37	-587.80	-34.93	588.84	0.00	0.00	0.00
5,600.00	7.01	183.40	5,563.62	-599.98	-35.65	601.04	0.00	0.00	0.00
5,700.00	7.01	183.40	5,662.88	-612.17	-36.38	613.25	0.00	0.00	0.00
5,800.00	7.01	183.40	5,762.13	-624.35	-37.10	625.45	0.00	0.00	0.00
5,900.00	7.01	183.40	5,861.38	-636.53	-37.82	637.65	0.00	0.00	0.00
6,000.00	7.01	183.40	5,960.64	-648.71	-38.55	649.86	0.00	0.00	0.00
6,100.00	7.01	183.40	6,059.89	-660.90	-39.27	662.06	0.00	0.00	0.00
6,156.54	7.01	183.40	6,116.00	-667.78	-39.68	668.96	0.00	0.00	0.00
<b>TD at 6156.54</b>									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
UT 33-03 PBHL - plan hits target center - Point	0.00	0.00	6,116.00	-667.78	-39.68	7,174,218.94	1,996,646.29	40° 0' 29.280 N	110° 13' 41.430 W

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.00	500.00	0.00	0.00	Start Build 2.00
850.49	849.62	-21.38	-1.27	Start 7.01° Hold At 850.49'
6,156.54	6,116.00	-667.78	-39.68	TD at 6156.54

### SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK



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

August 5, 2011

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 33-03: 122' FNL & 2622' FWL, NE/NW,(Surface)  
790' FNL & 2580' FWL, NE/NW (Bottom Hole)  
Sec. 33, 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 August 5, 2011, 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 33-03 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 directionally drilling from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Respectfully Submitted,

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

**Certification**

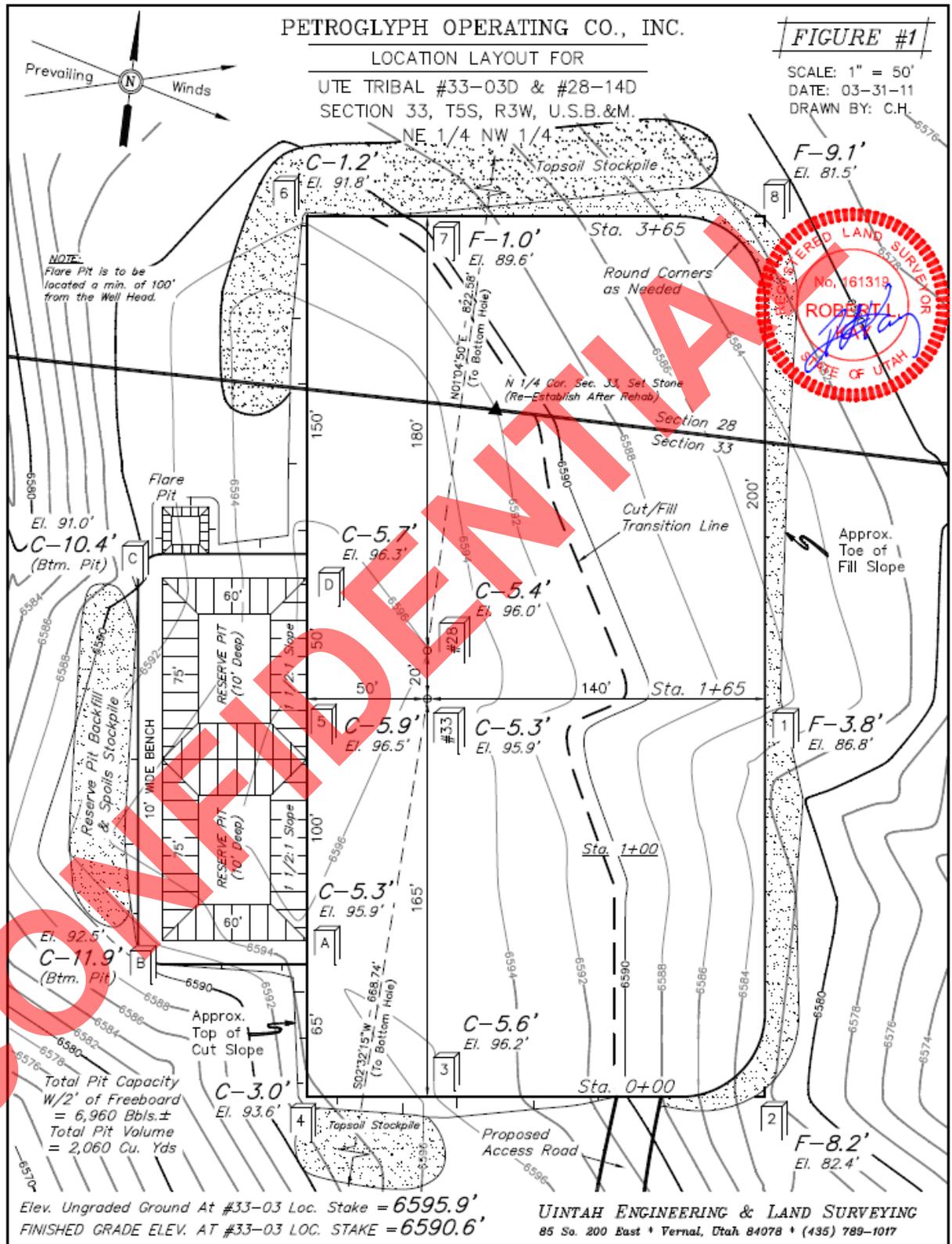
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with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

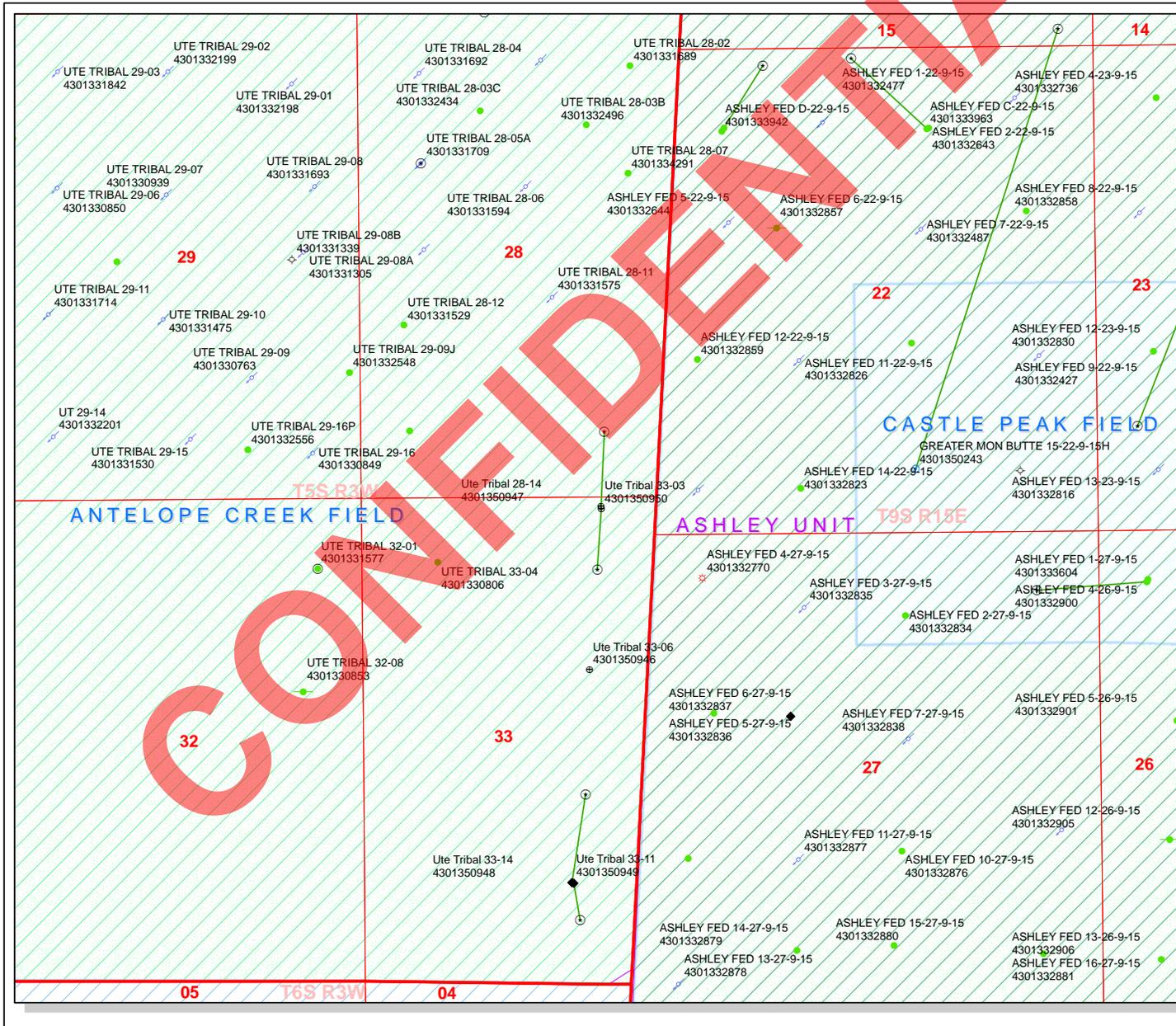
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 33-03 Well, located in the NE/NW of Section 33, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3522;** and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

\_\_\_\_\_  
Date

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

**CONFIDENTIAL**

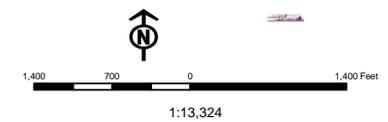




**API Number: 4301350950**  
**Well Name: Ute Tribal 33-03**  
**Township T0.5 . Range R0.3 . Section 33**  
**Meridian: UBM**  
**Operator: PETROGLYPH OPERATING CO**

Map Prepared:  
 Map Produced by Diana Mason

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



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/31/2011

**API NO. ASSIGNED:** 43013509500000

**WELL NAME:** Ute Tribal 33-03

**OPERATOR:** PETROGLYPH OPERATING CO (N3800)

**PHONE NUMBER:** 435 789-4120

**CONTACT:** Ed Trotter

**PROPOSED LOCATION:** NENW 33 050S 030W

**Permit Tech Review:**

**SURFACE:** 0122 FNL 2622 FWL

**Engineering Review:**

**BOTTOM:** 0790 FNL 2580 FWL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.00994

**LONGITUDE:** -110.22742

**UTM SURF EASTINGS:** 565940.00

**NORTHINGS:** 4428936.00

**FIELD NAME:** ANTELOPE CREEK

**LEASE TYPE:** 2 - Indian

**LEASE NUMBER:** 14-20-H62-3522

**PROPOSED PRODUCING FORMATION(S):** CASTLE PEAK

**SURFACE OWNER:** 2 - Indian

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT
- Bond: INDIAN - BO 4556
- 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  
IRR SEC:

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



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** Ute Tribal 33-03  
**API Well Number:** 43013509500000  
**Lease Number:** 14-20-H62-3522  
**Surface Owner:** INDIAN  
**Approval Date:** 9/27/2011

**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.

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 faint, illegible stamp or background.

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

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

SEP 14 2011  
September 1, 2011  
BLM VERNAL, UTAH  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
**14-20-H62-3522**

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

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

8. Lease Name and Well No.  
**UTE TRIBAL 33-03**

9. API Well No.  
**43-013-50950**

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

11. Sec., T., R., M., or Blk. and Survey or Area  
**SEC. 33, T5S, R3W,  
U.S.B.&M.**

1a. Type of Work:  DRILL  REENTER  
1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

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

3a. Address **P.O. BOX 1910  
VERNAL, UT 84078**  
3b. Phone No. (Include area code)  
**(435)789-4120**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **122' FNL, & 569' FEL, NE/NW, SEC. 33, T5S, R3W**  
Bottom Hole: **790' FNL, 2580' FWL, NE/NW, SEC. 33, T5S, R3W**  
At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*  
**25.0 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. **122'**  
(Also to nearest drig. Unit line, if any)  
16. No. of Acres in lease **369.92**  
17. Spacing Unit dedicated to this well

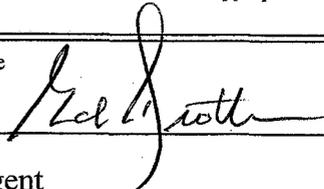
18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. **See Topo Man "C"**  
19. Proposed Depth **6236' TVD  
6236' TMD**  
20. BLM/BIA Bond No. on file **BO 4556**

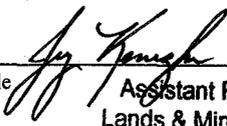
21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6590.6 FEET GRADED GROUND**  
22. Approximate date work will start\*  
**UPON APPROVAL**  
23. Estimated duration  
**10 DAYS**

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** Date **August 5, 2011**  
Title **Agent**

Approved by (Signature)  Name (Printed/Typed) **Jerry Kenczka** Date **MAR 22 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.

\*(Continued on page 2)

NOTICE OF APPROVAL

UDOGM

RECEIVED

MAR 27 2012

DIV. OF OIL, GAS & MINING

11.550635A

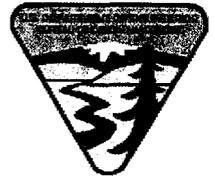


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company: Petroglyph Operating CO., Inc  
Well No: Ute Tribal 33-03  
API No: 43-013-50949

Location: NENW, Sec. 33, T5S, R3W  
Lease No: 14-20-H62-3522  
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: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
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)**

- 1) 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.
- 2) 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 shall be granted for Onshore Order #2 Drilling operations III.E. "Blooie line discharge 100' from the well bore and securely anchored" Blooie line can be 75'
- 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](mailto: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](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

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

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3522
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: UTE TRIBAL 33-03
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		9. API NUMBER: 43013509500000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500 , Bosie, ID, 83703		9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0122 FNL 2622 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 33 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	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>5/15/2012</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 checked="" 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.

All produced water will be trucked or pumped through pipeline to a water injection pump station for injection. Water injection pump stations are located at the following: Ute Tribal 21-11 NESW Section 21, T5S, R3W, Duchesne County, Utah Ute Tribal 18-08 SENE Section 18, T5S, R3W, Duchesne County, Utah Ute Tribal 34-12D3 NWSW Section 34, T4S, R3W, Duchesne County, Utah

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 April 09, 2012**

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/28/2012	

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 33-03  
Qtr/Qtr NENW Section 33 Township 5S Range 3W  
Lease Serial Number 14-20-H62-3522  
API Number 43-013-50950

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

Date/Time 5/22/2012 1:00 AM  PM

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

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

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

BOPE

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

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

Remarks We plan to spud at the time referenced. We plan to set 40' of 14" conductor. (sent 5/21/2012 @ 10:00 A.M.)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3522
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> ANTELOPE CREEK
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 33-03
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Ave, Ste 500, Bosie, ID, 83703		<b>9. API NUMBER:</b> 43013509500000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0122 FNL 2622 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 33 Township: 05.0S Range: 03.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ANTELOPE CREEK
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> 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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT 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 Date of Spud: 5/22/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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.

We spudded this well on 5/22/2012. We set 40' of 14" conductor.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 30, 2012**

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/30/2012	

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 33-03  
 Qtr/Qtr NENW Section 33 Township 5S Range 3W  
 Lease Serial Number 14-20-H62-3522  
 API Number 43-013-~~50950~~ 50950

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

**RECEIVED**  
**MAY 30 2012**  
 DIV. OF OIL, GAS & MINING

Date/Time 5/30/2012 3:00 AM  PM

BOPE

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

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

Remarks We plan to run appx 480' of J-55, 8 5/8" casing.  
(sent 5/29/2012 @ 10:00 A.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
4301350946	Ute Tribal 33-06		SEnw	33	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	09411	5/30/2012			5/30/2012	
Comments: Please add well to existing Ute Tribal 32-08 TB. <i>GRRV</i>							<b>CONFIDENTIAL</b>

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350950	Ute Tribal 33-03		NEwN	33	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	09411	5/22/2012			5/30/2012	
Comments: Please add well to existing Ute Tribal 32-08 TB. <i>GRRV BHL: renew</i>							<b>CONFIDENTIAL</b>

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350947	Ute Tribal 28-14		NEwN	33	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	09411	5/22/2012			5/30/2012	
Comments: Please add well to existing Ute Tribal 32-08 TB. <i>GRRV BHL: S28 SWSE</i>							<b>CONFIDENTIAL</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)

*Rodrigo Jurado*  
Signature

Regulatory Compliance Spc 5/30/2012

Title Date

RECEIVED

MAY 31 2012

(5/2000)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3522
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> ANTELOPE CREEK
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 33-03
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO	<b>9. API NUMBER:</b> 43013509500000
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Ave, Ste 500, Bosie, ID, 83703	<b>PHONE NUMBER:</b> 208 685-7674 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0122 FNL 2622 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 33 Township: 05.0S Range: 03.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ANTELOPE CREEK  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> 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> Approximate date work will start: <b>7/11/2012</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input checked="" type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

On 07/11/2012 Petroglyph Operating Company, Inc plans to perforate and fracture treat the following intervals: B6: 4188-4197 & 4214-4217, C5: 4680-4686 & 4695-4704, C6: 4820-4830, D1: 5014-5019, D3: 5062-5068, 5084-5086 & 5093-5110, D5: 5201-5213, D8: 5330-5333, E0.1: 5500-5517, E0.2: 5539-5543, E1.1: 5569-5582, & E2.1: 5660-5664. We plan to perforate using Titan 3 1/8" perf guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120\* phased. We plan to frac using Delta 140 15# gelled fluid containing 20/40 mesh sand. Volumes and amounts will be reported at a later time.

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

**Date:** July 09, 2012  
**By:** *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/5/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3522
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> ANTELOPE CREEK
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 33-03
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO	<b>9. API NUMBER:</b> 43013509500000
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Bosie, ID, 83703	<b>PHONE NUMBER:</b> 208 685-7685 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0122 FNL 2622 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 33 Township: 05.0S Range: 03.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ANTELOPE CREEK  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> 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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/20/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 08/20/2012.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 August 21, 2012**

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/21/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3522
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> ANTELOPE CREEK
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 33-03
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Bosie, ID, 83703		<b>9. API NUMBER:</b> 43013509500000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0122 FNL 2622 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 33 Township: 05.0S Range: 03.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ANTELOPE CREEK
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> 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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input checked="" type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/20/2012			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

On 7/8/2012 Petroglyph Operating ran GR/CBL and found ETOC @ 85', perforated and frac'd the follow intervals: Zone 1: 5500-5664 w/ 819 Bbls fluid containing 80,300#'s sand. Zone 2: 5201-5333 w/ 644 Bbls fluid containing 41,000#'s sand. Zone 3: 5014-5110 w/ 787 Bbls fluid containing 80,000#'s sand. Zone 4: 4820-4830 w/ 405 Bbls fluid containing 32,100#'s sand. Zone 5: 4680-4704 w/ 455 Bbls fluid containing 40,200#'s sand. Zone 6: 4188-4217 w/ 413 Bbls fluid containing 43,000#'s sand. Fluid: Delta 140 15# gelled fluid. Sand: 20/40 mesh, premium white sand. Perf guns: Titan 3 1/8", containing 22.7 gram charges, 0.42"EHD, 23.54"TTP @ 4 spf @ 120\* phased. Isolation Plugs: Halliburton 8K Composite. All plugs were drilled out and well was cleaned out to 6111', swabbed until a good oil cut was seen, put to pump on 8/20/2012.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 28, 2012

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/27/2012	

# 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

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: 122' FNL, ~~569' FEL~~ **2622 FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: 645' FNL, 590' FEL  
AT TOTAL DEPTH: 713' FNL, ~~600' FEL~~ **2582 FWL** **BH2 by HSM**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
14-20-H62-3522

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 33-03

9. API NUMBER:  
4301350950

10. FIELD AND POOL, OR WILDCAT  
Antelope Creek

11. QTR/GTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NENW 33 5S 3W

12. COUNTY: Duchesne 13. STATE: UTAH

14. DATE SPUDDED: 5/22/2012 15. DATE T.D. REACHED: 6/22/2012 16. DATE COMPLETED: 8/20/2012

ABANDONED  DIV. OF OIL, GAS & MINING

17. ELEVATIONS (DF, RKB, RT, GL):  
6,611 RKB

18. TOTAL DEPTH: MD 6,185 TVD 6,139

19. PLUG BACK T.D.: MD 6,111 TVD 6,066

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
CBL, ACTR, Borehole Volume, Spectral Density Dual Spaced Neutron.

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	14 K-55	42	0	54					Conductor
12.25	8.625 J-55	24	0	522		G 325	67	0	
7.875	5.5 J-55	15.5	0	6,176		G 825	254	85' 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	5,688							

### 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	4,188	5,664	4,144	5,619
(B)				
(C)				
(D)				

### 27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
4,188 5,664	0.42	480	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input 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
4,188'-5,664'	3,543 Bbls Delta 140 15# gelled fluid containing 316,600#'s 20/40 mesh sand

### 29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: DOGM

### 30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/20/2012	TEST DATE: 9/3/2012	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 100	GAS – MCF: 141	WATER – BBL: 100	PROD. METHOD: Rod Pump
CHOKE SIZE: 28/64	TBG. PRESS. 850	CSG. PRESS. 800	API GRAVITY 41.40	BTU – GAS 1	GAS/OIL RATIO 1,410	24 HR PRODUCTION RATES: →	INTERVAL STATUS: 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: →	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: →	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: →	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)
				Uinta	0
				Mahogany	2,829
				Garden Gulch	3,620
				B Marker	4,016
				X Marker	4,498
				Castle Peak	5,552
				Basal Carb	5,984

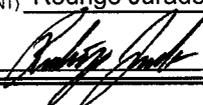
35. ADDITIONAL REMARKS (Include plugging procedure)

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 10/4/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- 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

**REPORT OF WATER ENCOUNTERED DURING DRILLING**

**RECEIVED**

**OCT 11 2012**

Well name and number: Ute Tribal 33-03

API number: 4301350950

Well Location: QQ NENW Section 33 Township 5S Range 3W County Duchesne **DIV. OF OIL, GAS & MINING**

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 (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	512	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) Les Farnsworth

TITLE District Manager

SIGNATURE *Les Farnsworth*

DATE 6/1/2012

**Job Number:** UT121013  
**Company:** Petroglyph  
**Lease/Well:** UTE TRIBAL 33-03  
**Location:** Antelope Creek  
**Rig Name:** Aztec 673  
**RKB:** 6610.4  
**G.L. or M.S.L.:** GL

**State/Country:** Utah/USA  
**Declination:** 11.23  
**Grid:** True N  
**File name:** C:\DOCUME~1\HBUSER\DESKTOP\UT121013.SVY  
**Date/Time:** 23-Jun-12 / 00:04  
**Curve Name:** Ute Tribal 33-03

**Payzone Directional**

WINSERVE SURVEY CALCULATIONS  
*Minimum Curvature Method*  
*Vertical Section Plane 183.40*  
*Vertical Section Referenced to Wellhead*  
*Rectangular Coordinates Referenced to Wellhead*

**RECEIVED**  
**OCT 11 2012**  
 DIV. OF OIL, GAS & MINING

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
558.00	.09	217.82	558.00	-.35	-.27	.36	.44	217.82	.02
650.00	.04	317.88	650.00	-.38	-.33	.40	.51	221.40	.11
742.00	.44	222.21	742.00	-.62	-.59	.65	.86	223.87	.48
832.00	1.23	177.39	831.99	-1.84	-.78	1.88	2.00	203.04	1.08
924.00	2.20	173.21	923.95	-4.58	-.53	4.60	4.61	186.58	1.06
1017.00	3.52	168.64	1016.83	-9.15	.25	9.12	9.15	178.46	1.44
1110.00	4.97	169.61	1109.57	-15.91	1.53	15.79	15.99	174.49	1.56
1204.00	6.42	175.01	1203.11	-25.15	2.73	24.95	25.30	173.81	1.64
1297.00	8.13	182.05	1295.36	-36.91	2.94	36.67	37.02	175.44	2.07
1390.00	10.06	180.11	1387.18	-51.60	2.69	51.35	51.67	177.01	2.10
1483.00	10.63	179.15	1478.67	-68.30	2.80	68.01	68.36	177.65	.64
1576.00	10.64	179.70	1570.07	-85.46	2.98	85.14	85.51	178.01	.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1668.00	10.68	178.72	1660.49	-102.48	3.21	102.11	102.53	178.21	.20
1761.00	10.20	181.56	1751.95	-119.33	3.18	118.93	119.37	178.47	.76
1854.00	9.84	182.35	1843.53	-135.50	2.63	135.10	135.52	178.89	.41
1947.00	9.98	182.84	1935.14	-151.49	1.90	151.11	151.50	179.28	.18
2041.00	10.51	181.26	2027.64	-168.19	1.31	167.82	168.20	179.55	.64
2134.00	11.12	183.01	2118.99	-185.63	.65	185.26	185.63	179.80	.74
2227.00	11.12	184.55	2210.24	-203.52	-.53	203.20	203.53	180.15	.32
2320.00	10.50	182.88	2301.59	-220.93	-1.66	220.64	220.93	180.43	.75
2413.00	10.10	186.75	2393.09	-237.49	-3.05	237.25	237.51	180.74	.86
2506.00	10.02	185.47	2484.66	-253.64	-4.78	253.48	253.69	181.08	.26
2599.00	9.84	185.25	2576.27	-269.61	-6.28	269.51	269.68	181.33	.20
2692.00	10.02	188.24	2667.88	-285.53	-8.16	285.51	285.65	181.64	.59
2785.00	10.29	186.71	2759.42	-301.79	-10.29	301.86	301.96	181.95	.41
2878.00	10.49	187.15	2850.90	-318.44	-12.32	318.61	318.67	182.22	.23
2971.00	10.03	184.98	2942.41	-334.90	-14.08	335.15	335.20	182.41	.65
3064.00	9.62	183.89	3034.05	-350.72	-15.31	351.01	351.06	182.50	.48
3157.00	10.06	181.03	3125.68	-366.60	-15.98	366.90	366.95	182.50	.71
3249.00	10.55	178.27	3216.19	-383.05	-15.87	383.32	383.38	182.37	.76
3343.00	10.42	179.23	3308.62	-400.15	-15.49	400.37	400.45	182.22	.23
3436.00	10.63	178.27	3400.06	-417.14	-15.12	417.30	417.41	182.08	.29
3529.00	9.98	180.07	3491.56	-433.77	-14.87	433.89	434.02	181.96	.78
3622.00	9.58	180.02	3583.21	-449.57	-14.89	449.66	449.81	181.90	.43
3715.00	9.23	181.21	3674.96	-464.76	-15.05	464.84	465.01	181.85	.43
3808.00	8.57	182.57	3766.84	-479.14	-15.51	479.22	479.39	181.85	.74
3900.00	7.47	186.48	3857.94	-491.93	-16.50	492.04	492.21	181.92	1.33
3993.00	6.86	188.24	3950.21	-503.44	-17.98	503.61	503.76	182.04	.70
4086.00	6.20	188.99	4042.61	-513.89	-19.56	514.15	514.26	182.18	.72
4179.00	5.63	190.92	4135.11	-523.33	-21.20	523.67	523.76	182.32	.65
4272.00	4.88	191.45	4227.72	-531.69	-22.85	532.11	532.18	182.46	.81
4365.00	4.04	189.43	4320.44	-538.80	-24.18	539.28	539.34	182.57	.92
4458.00	2.81	182.92	4413.27	-544.31	-24.83	544.82	544.87	182.61	1.39
4552.00	2.37	173.17	4507.17	-548.54	-24.72	549.04	549.09	182.58	.66
4645.00	1.67	177.56	4600.12	-551.80	-24.43	552.28	552.34	182.53	.77
4738.00	.88	178.18	4693.09	-553.87	-24.35	554.34	554.40	182.52	.85

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4831.00	1.23	178.93	4786.08	-555.58	-24.31	556.04	556.11	182.51	.38
4925.00	1.45	185.03	4880.05	-557.77	-24.39	558.24	558.31	182.50	.28
5018.00	1.54	188.73	4973.02	-560.18	-24.69	560.66	560.72	182.52	.14
5111.00	1.23	199.27	5065.99	-562.36	-25.20	562.86	562.92	182.57	.43
5204.00	1.05	210.92	5158.97	-564.03	-25.97	564.58	564.63	182.64	.31
5297.00	1.58	208.59	5251.95	-565.89	-27.02	566.49	566.53	182.73	.57
5390.00	1.32	216.85	5344.92	-567.87	-28.28	568.55	568.57	182.85	.36
5483.00	1.58	204.06	5437.89	-569.90	-29.44	570.64	570.66	182.96	.44
5576.00	1.54	209.07	5530.85	-572.16	-30.57	572.97	572.98	183.06	.15
5669.00	1.67	209.29	5623.82	-574.44	-31.84	575.31	575.32	183.17	.14
5762.00	1.93	206.61	5716.77	-577.02	-33.21	577.97	577.97	183.29	.29
5855.00	2.02	204.41	5809.72	-579.91	-34.59	580.94	580.94	183.41	.13
5948.00	2.07	203.97	5902.66	-582.94	-35.95	584.04	584.05	183.53	.06
6041.00	2.20	204.06	5995.59	-586.10	-37.36	587.29	587.29	183.65	.14
6122.00	2.37	205.51	6076.53	-589.03	-38.71	590.29	590.30	183.76	.22
<b>Projected to Bit</b> 6185.00	2.37	205.51	6139.47	-591.38	-39.83	592.71	592.73	183.85	.00