

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 01-10-E4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Bosie, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-4743			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Brian T. Bawden						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-964-2678					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3770 S. 3760 W., West Valley City, UT 84120						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 <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		2367 FSL 1594 FEL		NWSE	1	5.0 S	4.0 W	U			
Top of Uppermost Producing Zone		2290 FSL 2130 FEL		NWSE	1	5.0 S	4.0 W	U			
At Total Depth		2290 FSL 2130 FEL		NWSE	1	5.0 S	4.0 W	U			
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1594			23. NUMBER OF ACRES IN DRILLING UNIT 707					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1816			26. PROPOSED DEPTH MD: 6310 TVD: 6251					
27. ELEVATION - GROUND LEVEL 5981			28. BOND NUMBER LPM4138336			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 - 55	5.0	Unknown	10.0	Class G	25	1.17	15.8	
SURF	12.25	8.625	0 - 495	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8	
PROD	7.875	5.5	0 - 6310	15.5	J-55 LT&C	10.0	Class G	467	1.92	12.5	
							Class G	359	1.46	13.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120				
SIGNATURE				DATE 07/02/2012			EMAIL edtrotter@easilink.com				
API NUMBER ASSIGNED 43013515350000				APPROVAL			 Permit Manager				

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB~15' above GGL		5996	0	0
Surface Formation = Uinta				
Uinta		5981	15	15
Green River		4724	1272	1275
Trona		3369	2627	2673
Mahogany Shale		3218	2778	2830
"B" Marker	Waterflood Unit Interval	2072	3924	3983
"X" Marker		1576	4420	4479
Douglas Creek Marker		1431	4565	4624
"B" Limestone		1029	3924	5026
Base Castle Peak Limestone		492	5504	5562
BSCARB		88	5908	5967
Wasatch		-190	6186	6245
Rig TD		-255	6251	6310

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

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6000	0	0
Oil/Gas	Douglas Creek	1431	4565	4624
Oil/Gas	Castle Peak	492	5504	5562

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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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54.5'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494.5'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6310'	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 3983'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft ³ /sk)
	Bottom		Vol (ft ³)			
Conductor	0 ----- 54.5	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 494.5	Class G +2% CaCl ₂ +0.25 lb/sk Cello Flake	227 ----- 265	30%	15.8	1.17
Production Lead	0 ----- 3983	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	467 ----- 897	30%	12.5	1.92
Production Tail	3983 ----- 6310	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	359 ----- 524	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 surface cementing operation the cement does not circulate to surface, a remedial surface cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 480'MD.

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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

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

BOPE TESTING PROCEDURE:

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

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494.5'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.

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NW SE, SEC 1, T5W, R3W
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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494.5' to 6310'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior 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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NW SE, SEC 1, T5W, R3W
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7. EVALUATION PROGRAM:

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

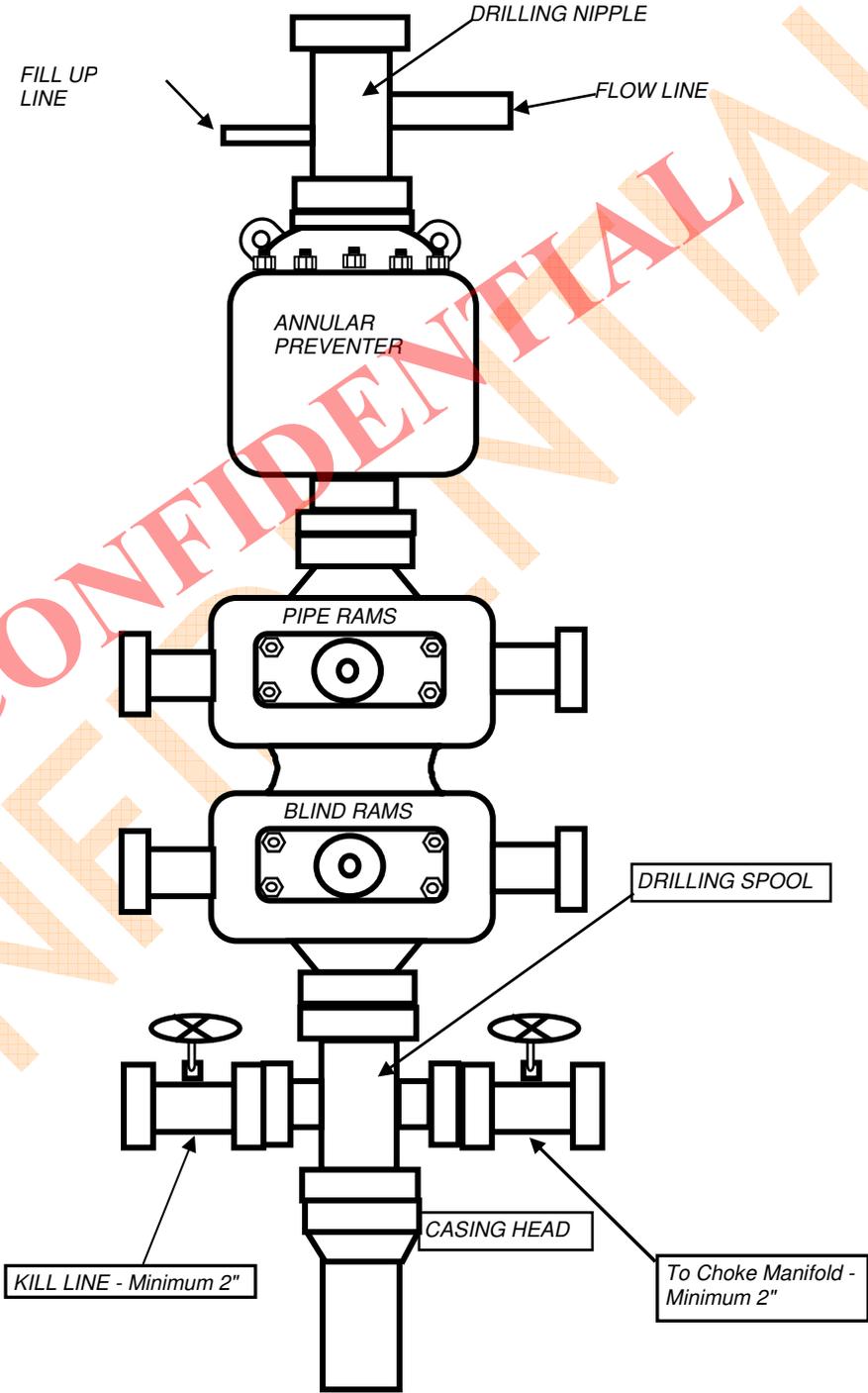
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1577.5 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.

9. DIRECTIONAL WELL PLAN:

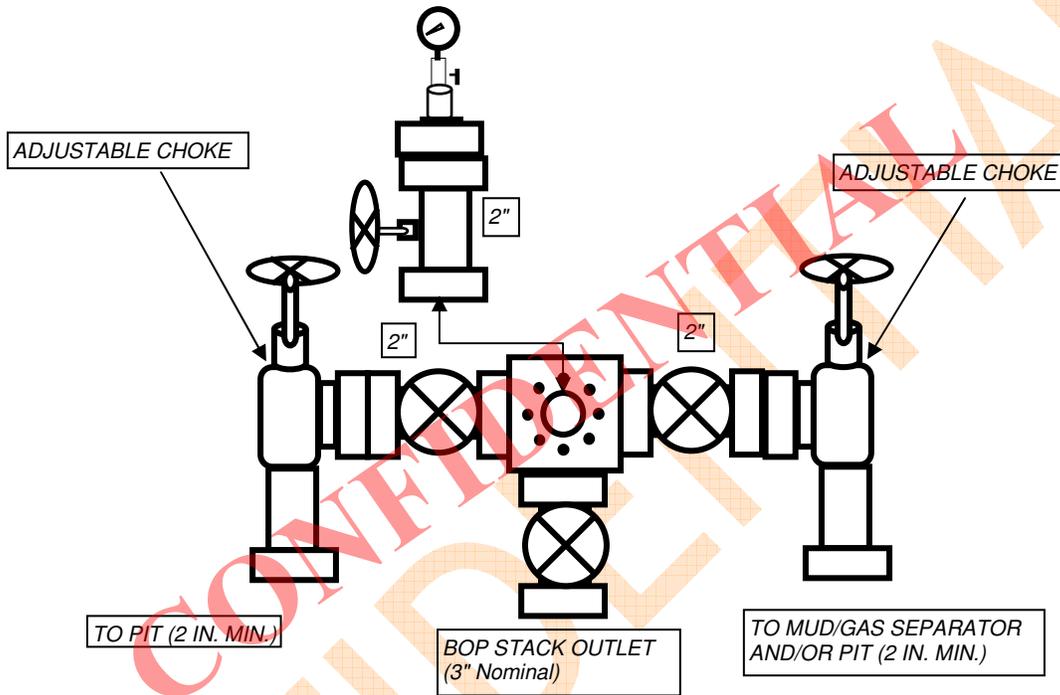
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3983' to 5967', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

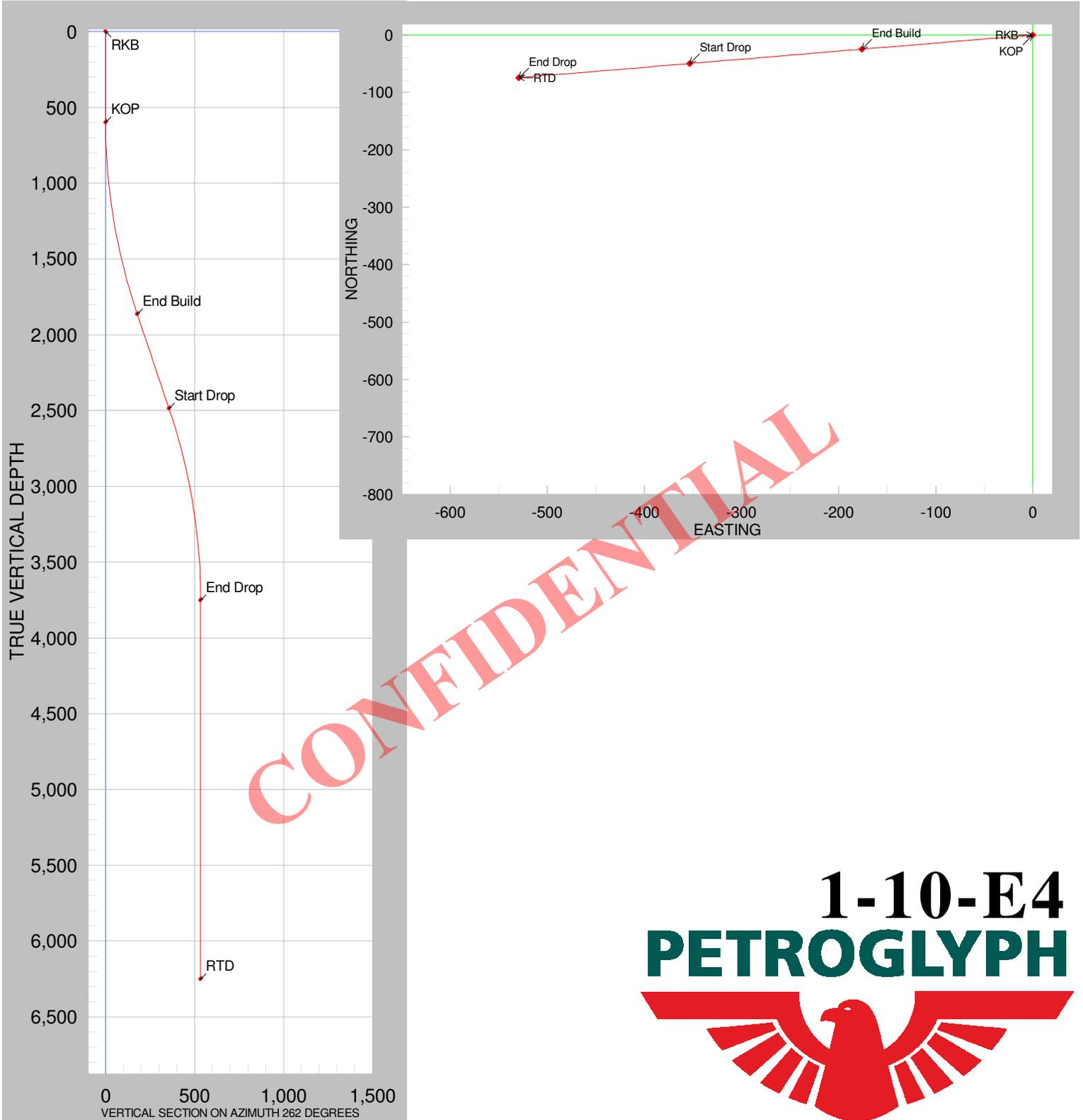
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NW SE, SEC 1, T5W, R3W
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1880.00	16.00	262.00	1863.43	-24.71	-175.84	1.25	177.56
3	Start Drop	Tangent	2530.00	16.00	262.00	2488.25	-49.65	-353.26	0.00	356.73
4	End Drop	Drop	3810.00	0.00	0.00	3751.68	-74.36	-529.09	1.25	534.29
5	RTD	Vertical	6310.00	0.00	0.00	6251.68	-74.36	-529.09	0.00	534.29

01-10-E4, Plan 1

Operator	Units feet, %/100ft	15:30 Tuesday, April 17, 2012 Page 1 of 4
Field	County	Vertical Section Azimuth 262
Well Name 01-10-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	262.0	650.00	-0.04	-0.27	1.25	0.27			
700.00	1.25	262.0	699.99	-0.15	-1.08	1.25	1.09			
750.00	1.88	262.0	749.97	-0.34	-2.43	1.25	2.45			
800.00	2.50	262.0	799.94	-0.61	-4.32	1.25	4.36			
850.00	3.13	262.0	849.88	-0.95	-6.75	1.25	6.82			
900.00	3.75	262.0	899.79	-1.37	-9.72	1.25	9.81			
950.00	4.38	262.0	949.66	-1.86	-13.23	1.25	13.36			
1000.00	5.00	262.0	999.49	-2.43	-17.27	1.25	17.44			
1050.00	5.63	262.0	1049.28	-3.07	-21.86	1.25	22.07			
1100.00	6.25	262.0	1099.01	-3.79	-26.98	1.25	27.24			
1150.00	6.88	262.0	1148.68	-4.59	-32.64	1.25	32.96			
1200.00	7.50	262.0	1198.29	-5.46	-38.83	1.25	39.21			
1250.00	8.13	262.0	1247.82	-6.40	-45.56	1.25	46.01			
1300.00	8.75	262.0	1297.28	-7.42	-52.83	1.25	53.35			
1350.00	9.38	262.0	1346.66	-8.52	-60.63	1.25	61.22			
1400.00	10.00	262.0	1395.94	-9.69	-68.96	1.25	69.64			
1450.00	10.63	262.0	1445.14	-10.94	-77.82	1.25	78.59			
1500.00	11.25	262.0	1494.23	-12.26	-87.22	1.25	88.07			
1550.00	11.88	262.0	1543.21	-13.65	-97.14	1.25	98.10			
1600.00	12.50	262.0	1592.09	-15.12	-107.59	1.25	108.65			
1650.00	13.13	262.0	1640.84	-16.66	-118.57	1.25	119.74			

01-10-E4, Plan 1

Operator	Units feet, %/100ft	15:30 Tuesday, April 17, 2012 Page 2 of 4
Field	County	Vertical Section Azimuth 262
Well Name 01-10-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	262.0	1689.47	-18.28	-130.08	1.25	131.36			
1750.00	14.38	262.0	1737.97	-19.97	-142.11	1.25	143.51			
1800.00	15.00	262.0	1786.34	-21.74	-154.66	1.25	156.18			
1850.00	15.63	262.0	1834.56	-23.57	-167.74	1.25	169.39			
*** END BUILD (at MD = 1880.00)										
1880.00	16.00	262.0	1863.43	-24.71	-175.84	1.25	177.56			
1900.00	16.00	262.0	1882.65	-25.48	-181.29	0.00	183.08			
1950.00	16.00	262.0	1930.72	-27.40	-194.94	0.00	196.86			
2000.00	16.00	262.0	1978.78	-29.32	-208.59	0.00	210.64			
2050.00	16.00	262.0	2026.84	-31.23	-222.24	0.00	224.42			
2100.00	16.00	262.0	2074.91	-33.15	-235.89	0.00	238.20			
2150.00	16.00	262.0	2122.97	-35.07	-249.53	0.00	251.99			
2200.00	16.00	262.0	2171.03	-36.99	-263.18	0.00	265.77			
2250.00	16.00	262.0	2219.10	-38.91	-276.83	0.00	279.55			
2300.00	16.00	262.0	2267.16	-40.82	-290.48	0.00	293.33			
2350.00	16.00	262.0	2315.22	-42.74	-304.12	0.00	307.11			
2400.00	16.00	262.0	2363.28	-44.66	-317.77	0.00	320.89			
2450.00	16.00	262.0	2411.35	-46.58	-331.42	0.00	334.68			
2500.00	16.00	262.0	2459.41	-48.50	-345.07	0.00	348.46			
*** START DROP (at MD = 2530.00)										
2530.00	16.00	262.0	2488.25	-49.65	-353.26	0.00	356.73			
2550.00	15.75	262.0	2507.49	-50.41	-358.67	1.25	362.20			
2600.00	15.13	262.0	2555.68	-52.26	-371.85	1.25	375.51			
2650.00	14.50	262.0	2604.02	-54.04	-384.51	1.25	388.29			
2700.00	13.88	262.0	2652.49	-55.75	-396.65	1.25	400.55			
2750.00	13.25	262.0	2701.10	-57.38	-408.26	1.25	412.27			
2800.00	12.63	262.0	2749.83	-58.93	-419.34	1.25	423.46			
2850.00	12.00	262.0	2798.68	-60.42	-429.90	1.25	434.13			
2900.00	11.38	262.0	2847.64	-61.83	-439.93	1.25	444.26			
2950.00	10.75	262.0	2896.71	-63.16	-449.43	1.25	453.85			
3000.00	10.13	262.0	2945.89	-64.42	-458.40	1.25	462.91			
3050.00	9.50	262.0	2995.15	-65.61	-466.84	1.25	471.43			
3100.00	8.88	262.0	3044.51	-66.72	-474.75	1.25	479.41			
3150.00	8.25	262.0	3093.96	-67.76	-482.12	1.25	486.86			
3200.00	7.63	262.0	3143.48	-68.72	-488.96	1.25	493.76			

01-10-E4, Plan 1

Operator	Units feet, %/100ft	15:30 Tuesday, April 17, 2012 Page 3 of 4
Field	County	Vertical Section Azimuth 262
Well Name 01-10-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3250.00	7.00	262.0	3193.07	-69.60	-495.26	1.25	500.13			
3300.00	6.38	262.0	3242.73	-70.41	-501.02	1.25	505.95			
3350.00	5.75	262.0	3292.45	-71.15	-506.25	1.25	511.23			
3400.00	5.13	262.0	3342.22	-71.81	-510.94	1.25	515.97			
3450.00	4.50	262.0	3392.05	-72.39	-515.10	1.25	520.16			
3500.00	3.88	262.0	3441.91	-72.90	-518.71	1.25	523.81			
3550.00	3.25	262.0	3491.82	-73.33	-521.79	1.25	526.92			
3600.00	2.63	262.0	3541.75	-73.69	-524.33	1.25	529.48			
3650.00	2.00	262.0	3591.71	-73.97	-526.33	1.25	531.50			
3700.00	1.38	262.0	3641.69	-74.18	-527.78	1.25	532.97			
3750.00	0.75	262.0	3691.68	-74.30	-528.70	1.25	533.90			
3800.00	0.13	262.0	3741.68	-74.36	-529.08	1.25	534.28			
*** END DROP (at MD = 3810.00)										
3810.00	0.00	0.0	3751.68	-74.36	-529.09	1.25	534.29			
3850.00	0.00	0.0	3791.68	-74.36	-529.09	0.00	534.29			
3900.00	0.00	0.0	3841.68	-74.36	-529.09	0.00	534.29			
3950.00	0.00	0.0	3891.68	-74.36	-529.09	0.00	534.29			
4000.00	0.00	0.0	3941.68	-74.36	-529.09	0.00	534.29			
4050.00	0.00	0.0	3991.68	-74.36	-529.09	0.00	534.29			
4100.00	0.00	0.0	4041.68	-74.36	-529.09	0.00	534.29			
4150.00	0.00	0.0	4091.68	-74.36	-529.09	0.00	534.29			
4200.00	0.00	0.0	4141.68	-74.36	-529.09	0.00	534.29			
4250.00	0.00	0.0	4191.68	-74.36	-529.09	0.00	534.29			
4300.00	0.00	0.0	4241.68	-74.36	-529.09	0.00	534.29			
4350.00	0.00	0.0	4291.68	-74.36	-529.09	0.00	534.29			
4400.00	0.00	0.0	4341.68	-74.36	-529.09	0.00	534.29			
4450.00	0.00	0.0	4391.68	-74.36	-529.09	0.00	534.29			
4500.00	0.00	0.0	4441.68	-74.36	-529.09	0.00	534.29			
4550.00	0.00	0.0	4491.68	-74.36	-529.09	0.00	534.29			
4600.00	0.00	0.0	4541.68	-74.36	-529.09	0.00	534.29			
4650.00	0.00	0.0	4591.68	-74.36	-529.09	0.00	534.29			
4700.00	0.00	0.0	4641.68	-74.36	-529.09	0.00	534.29			
4750.00	0.00	0.0	4691.68	-74.36	-529.09	0.00	534.29			
4800.00	0.00	0.0	4741.68	-74.36	-529.09	0.00	534.29			
4850.00	0.00	0.0	4791.68	-74.36	-529.09	0.00	534.29			

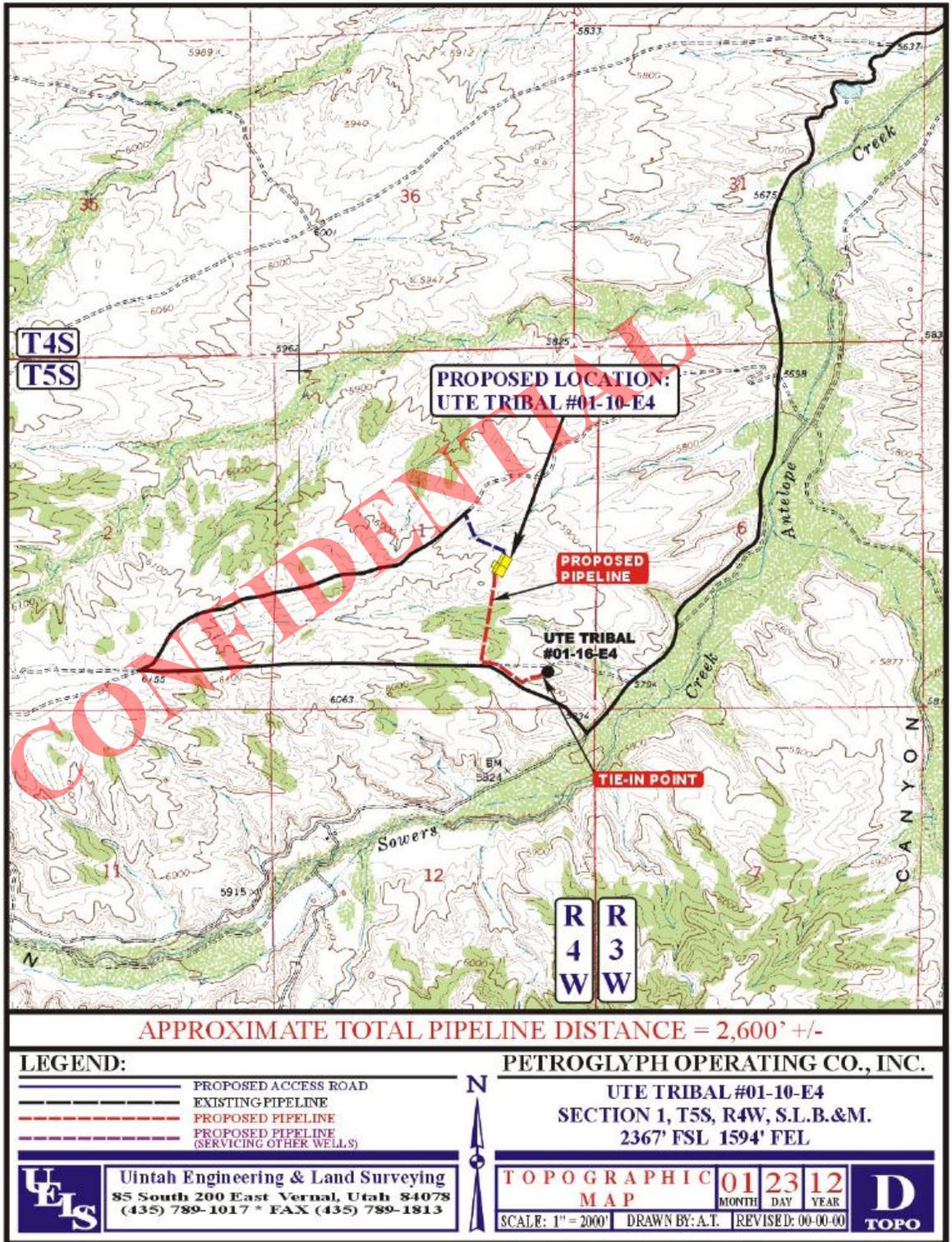
01-10-E4, Plan 1

Operator	Units feet, %100ft	15:30 Tuesday, April 17, 2012 Page 4 of 4
Field	County	Vertical Section Azimuth 262
Well Name 01-10-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
4900.00	0.00	0.0	4841.68	-74.36	-529.09	0.00	534.29			
4950.00	0.00	0.0	4891.68	-74.36	-529.09	0.00	534.29			
5000.00	0.00	0.0	4941.68	-74.36	-529.09	0.00	534.29			
5050.00	0.00	0.0	4991.68	-74.36	-529.09	0.00	534.29			
5100.00	0.00	0.0	5041.68	-74.36	-529.09	0.00	534.29			
5150.00	0.00	0.0	5091.68	-74.36	-529.09	0.00	534.29			
5200.00	0.00	0.0	5141.68	-74.36	-529.09	0.00	534.29			
5250.00	0.00	0.0	5191.68	-74.36	-529.09	0.00	534.29			
5300.00	0.00	0.0	5241.68	-74.36	-529.09	0.00	534.29			
5350.00	0.00	0.0	5291.68	-74.36	-529.09	0.00	534.29			
5400.00	0.00	0.0	5341.68	-74.36	-529.09	0.00	534.29			
5450.00	0.00	0.0	5391.68	-74.36	-529.09	0.00	534.29			
5500.00	0.00	0.0	5441.68	-74.36	-529.09	0.00	534.29			
5550.00	0.00	0.0	5491.68	-74.36	-529.09	0.00	534.29			
5600.00	0.00	0.0	5541.68	-74.36	-529.09	0.00	534.29			
5650.00	0.00	0.0	5591.68	-74.36	-529.09	0.00	534.29			
5700.00	0.00	0.0	5641.68	-74.36	-529.09	0.00	534.29			
5750.00	0.00	0.0	5691.68	-74.36	-529.09	0.00	534.29			
5800.00	0.00	0.0	5741.68	-74.36	-529.09	0.00	534.29			
5850.00	0.00	0.0	5791.68	-74.36	-529.09	0.00	534.29			
5900.00	0.00	0.0	5841.68	-74.36	-529.09	0.00	534.29			
5950.00	0.00	0.0	5891.68	-74.36	-529.09	0.00	534.29			
6000.00	0.00	0.0	5941.68	-74.36	-529.09	0.00	534.29			
6050.00	0.00	0.0	5991.68	-74.36	-529.09	0.00	534.29			
6100.00	0.00	0.0	6041.68	-74.36	-529.09	0.00	534.29			
6150.00	0.00	0.0	6091.68	-74.36	-529.09	0.00	534.29			
6200.00	0.00	0.0	6141.68	-74.36	-529.09	0.00	534.29			
6250.00	0.00	0.0	6191.68	-74.36	-529.09	0.00	534.29			
6300.00	0.00	0.0	6241.68	-74.36	-529.09	0.00	534.29			
*** RTD (at MD = 6310.00)										
6310.00	0.00	0.0	6251.68	-74.36	-529.09	0.00	534.29			



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

July 1, 2012

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

Re: Directional Drilling R649-3-11

Ute Tribal 01-10-E4: 2367' FSL & 1594' FEL, NW/SE, SEC. 1, (Surface Hole)
2290' FSL & 2130' FEL, NW/SE, Sec. 1, (Bottom Hole)
T5S, R4W, U.S.B.&M., Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on July 1, 2012, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

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

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

Respectfully Submitted,

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

Certification

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

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL #01-10-E4Well, located in NW/SE of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743;** and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LP4138153.

Date Agent

CONFIDENTIAL

FILE COPY

MEMORANDUM OF SURFACE USE AND
RIGHT-OF-WAY AGREEMENT

THIS MEMORANDUM WITNESSES:

THAT on the 16th day of June, 1997, between LEE H MOON AND KATHY MOON, husband and wife, , whose address is East Old Highway 40, Duchesne, Utah 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25th 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

Township 4 South - Range 4 West USM

Section 24: All
Section 25: All
Section 26: All
Section 35: All
Section 36: All

Township 4 South - Range 3 West USM

Section 19: All
Section 28: N/2 SW/4, NW/4 SE/4
Section 29: NE/4 SE/4
Section 32: All less NW/4 NW/4

Township 5 South - Range 4 West USM

Section 1: All
Containing 5,289.65 acres, more or less.

E 320858 B AD280 P 251
DATE 1-JUL-1997 16:24PM FEE 22.00
CAROLYNE B. MADSEN, RECORDER
FILED BY CRY
FOR ED TROTTER
DUCHEсне COUNTY CORPORATION

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25th day of JUNE, 1997.

GRANTOR LEE H MOON AND KATHY MOON

By: Lee H MoonBy: Kathy Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed Stotter
Its: Agent

ACKNOWLEDGMENTS

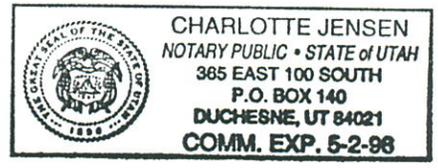
STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by LEE H MOON AND KATHY MOON, husband and wife.

Charlotte Jensen
Notary Public
Residing in: Duchesne, Ut

Commission Expires:

5-2-98



CONFIDENTIAL

ACKNOWLEDGMENT

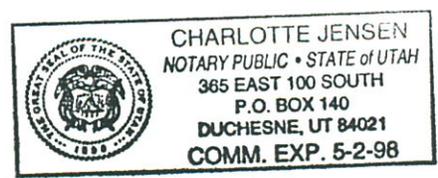
STATE OF UTAH)
 : ss.
COUNTY OF ~~SALT LAKE~~ DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by Ed Stotter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen
Notary Public
Residing in: Duchesne, Ut

My Commission Expires:

5-2-98



From: "Ed Trotter" <edtrotter@easilink.com>
To: <dianawhitney@utah.gov>
Date: 7/3/2012 5:08 PM
Subject: RE: Application For Permit to Drill Sent Back for Revisions

Diana,

You are right. Bawden is the current owner, but the agreement as written applies to future owners. They purchased the land with notice of the agreement since it is of record.

Ed

Ed Trotter
1620 West 750 North
P.O.Box 1910
Vernal, UT 84078
Phone (435) 789-4120
Cell (435) 790-1158
Fax: (435) 789- 1420
E-mail: edtrotter@easilink.com

-----Original Message-----

From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]
Sent: Tuesday, July 03, 2012 3:03 PM
To: edtrotter@easilink.com
Subject: Application For Permit to Drill Sent Back for Revisions

APD Number: 6277

Well Name: Ute Tribal 01-10-E4

Operator: PETROGLYPH OPERATING CO

You typed in Brian T. Bawden is the surface owner but the surface agreement says Lee and Kathy Moon are the surface owners. Please verify.

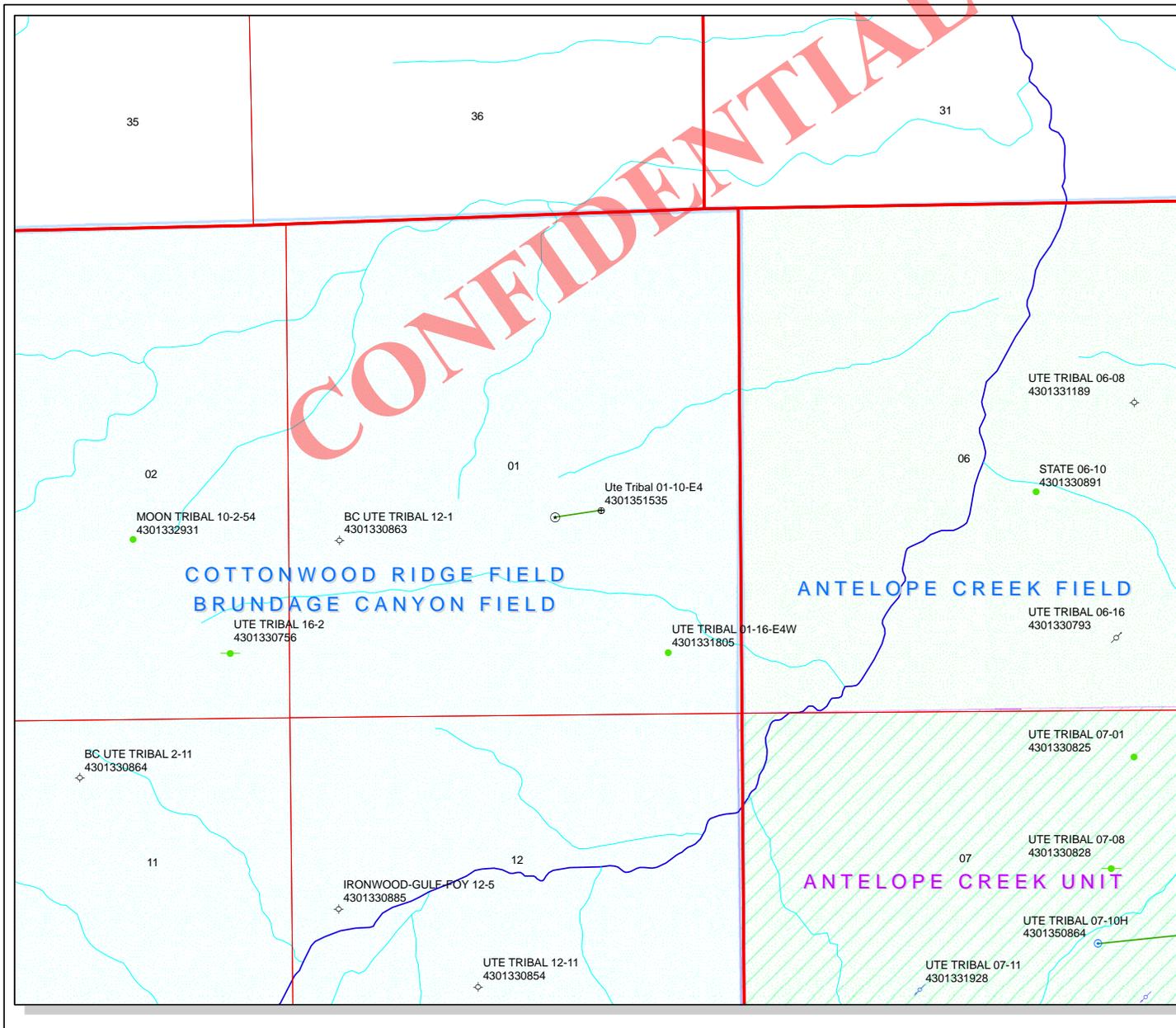
No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2193 / Virus Database: 2437/5108 - Release Date: 07/03/12

RECEIVED: July 10, 2012

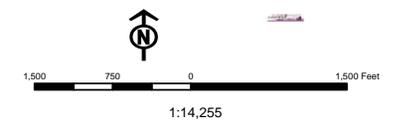
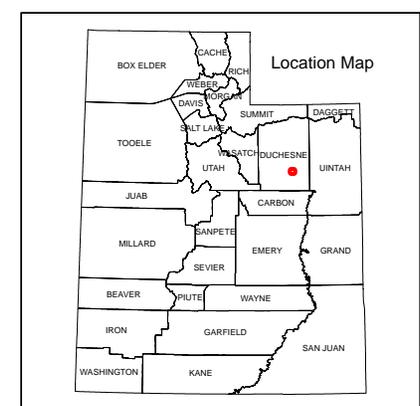
CONFIDENTIAL



API Number: 4301351535
Well Name: Ute Tribal 01-10-E4
Township T05.0S Range R04.0W Section 01
Meridian: UBM
 Operator: PETROGLYPH OPERATING CO

Map Prepared:
 Map Produced by Diana Mason

- | | |
|---------------|-------------------------------------|
| Units | Wells Query |
| STATUS | Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRIL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LOC - New Location |
| P1 OIL | OPS - Operation Suspended |
| PP GAS | PA - Plugged Abandoned |
| PP GEOTHERM. | PGW - Producing Gas Well |
| PP OIL | POW - Producing Oil Well |
| SECONDARY | SGW - Shut-in Gas Well |
| TERMINATED | SOW - Shut-in Oil Well |
| Fields | TA - Temp. Abandoned |
| Unknown | TW - Test Well |
| ABANDONED | WDW - Water Disposal |
| ACTIVE | WW - Water Injection Well |
| COMBINED | WSW - Water Supply Well |
| INACTIVE | Bottom Hole Location - Oil&GasDls |
| STORAGE | |
| TERMINATED | |



ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator PETROGLYPH OPERATING CO
Well Name Ute Tribal 01-10-E4
API Number 43013515350000 **APD No** 6277 **Field/Unit** BRUNDAGE CANYON
Location: 1/4,1/4 NWSE **Sec** 1 **Tw** 5.0S **Rng** 4.0W 2367 FSL 1594 FEL
GPS Coord (UTM) 561333 4436294 **Surface Owner** Brian T. Bawden

Participants

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

Regional/Local Setting & Topography

The Ute Tribal 01-10-E4 well is proposed NW/SE and the SE/SW of Section 1, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 7.1 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.5 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a narrow, fingered east/west ridge that drops into the canyon below. The immediate surface area is a easterly sloping ridge top that drops easterly into Sowers Canyon.

Surface Use Plan

Current Surface Use
 Recreational
 Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.179	Width 250 Length 350	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

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

Soil Type and Characteristics

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

Erosion Issues N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** Y

Shallow northeasterly draining wash, divert around corner number 2 and tie back into drainage.

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

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		25 1 Sensitivity Level

Characteristics / Requirements

Reserve pit staked on northwest side of location in cut, measuring 110' long by 60' wide by 8' deep

Closed Loop Mud Required? **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?****Other Observations / Comments**

Dry wash along the access road will either need a culvert or a low water crossing. Surface owner could not attend but has signed a landowner agreement, he also has been to the staked well site and has a camp trailer parked approximately a thousand feet west of the site. His concerns were safety, noise, property value, etc.

Dennis Ingram
Evaluator11/27/2012
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6277	43013515350000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD	Brian T. Bawden	
Well Name	Ute Tribal 01-10-E4		Unit		
Field	BRUNDAGE CANYON		Type of Work	DRILL	
Location	NWSE 1 5S 4W U 2367 FSL 1594 FEL GPS Coord (UTM) 561324E 4436306N				

Geologic Statement of Basis

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

Brad Hill
APD Evaluator

12/24/2012
Date / Time

Surface Statement of Basis

A presite visit was scheduled and done on Tuesday, November 27, 2012 to take input and address issues regarding the drilling and construction of the Ute Tribal 01-10-E4. Brian Bawden was shown as the landowner of record and was therefore contacted by telephone prior to the presite meeting. A landowner agreement is in place between the landowner and the operator. The landowner has a camp trailer parked approximately a thousand feet uphill or southwest of the proposed location, and the well appears to have been moved northeast to accommodate the surface owner. Photos were taken of the camp trailer. The surface owner could not attend the presite but has seen the well staking and knows where the disturbance or construction will occur.

The reserve pit is staked for the 1-10- E4 off the western portion of the well pad in cut, and the operator shall install a minimum 16 mil synthetic liner to prevent drilling fluids from seeping away into sub-surface soils. A dry wash drains the upper country in a northeasterly direction. The operator shall re-route this wash around corner number 2 and allow it to drain around the eastern portion of the well pad, then tie it back into the wash if possible to prevent further erosion. The topsoil spoils storage area is planned immediately east of the well pad near corner number 1. Bill Civish with the BLM requested that the equipment and tanks be painted Culvert Green. The operator shall berm the location to prevent spills from draining easterly into Sowers Canyon

Dennis Ingram
Onsite Evaluator

11/27/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the west side of the location.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location to the east.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/2/2012

API NO. ASSIGNED: 43013515350000

WELL NAME: Ute Tribal 01-10-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: NWSE 01 050S 040W

Permit Tech Review:

SURFACE: 2367 FSL 1594 FEL

Engineering Review:

BOTTOM: 2290 FSL 2130 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.07479

LONGITUDE: -110.28080

UTM SURF EASTINGS: 561324.00

NORTHINGS: 4436306.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-4743

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - LPM4138336
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-8342
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 01-10-E4
API Well Number: 43013515350000
Lease Number: 14-20-H62-4743
Surface Owner: FEE (PRIVATE)
Approval Date: 12/27/2012

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Exception Location:

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

General:

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

Conditions of Approval:

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

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

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

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

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

Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

AUG 22 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER



CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H624743
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator PETROGLYPH OPERATING CO., INC. Contact: ED H TROTTER Email: edtrotter@easilink.com		7. If Unit or CA Agreement, Name and No. 1420H624650
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420	8. Lease Name and Well No. UTE TRIBAL 01-10-E4
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSE 2367FSL 1594FEL At proposed prod. zone NWSE 2290FSL 2130FEL		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 19.48 MILES SOUTHWEST OF MYTON, UT		10. Field and Pool, or Exploratory ANTELOPE CREEK 4301381535
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1594'	16. No. of Acres in Lease 707.27	11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T5S R4W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1816'	19. Proposed Depth 6310 MD 6251 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5981 GL	22. Approximate date work will start 10/15/2012	13. State UT
		17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file LPM4138335
		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:

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

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 08/22/2012
Title DISTRICT MANAGER		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date MAR 18 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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.

Additional Operator Remarks (see next page)

Electronic Submission #146942 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO., INC., sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 08/30/2012

NOTICE OF APPROVAL

RECEIVED
MAR 22 2013

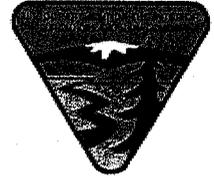
DIV. OF OIL, GAS & MINING



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



**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: PETROGLPH OPERATING CO.
Well No: UTE TRIBAL 01-10-E4
API No: 43-013-51535

Location: NWSE Sec. 1, T5S, R4W
Lease No: 14-20-H62-4743
Agreement: N/A

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)**

Any deviation of submitted APD's, which includes Petroglyph's surface use plan, and the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.

- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, and COA authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the BLM will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease until resources can be identified and protected properly.
- Production facilities would be painted Covert Green for the 01-10-E4 blend in with the surrounding habitat, unless otherwise stated from the private land owner agreement.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM AO for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

The pad locations will be recontoured and planted in native vegetation as per the land owner's request.

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

SITE SPECIFIC DOWNHOLE COAs:

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

Variances Granted

- Variance for Air-drilling is granted per APD

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

OPERATING REQUIREMENT REMINDERS:

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
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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:
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1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
------------------------------------	--

2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013515350000
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3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FSL 1594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/13/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" 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 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.

A revised drilling plan is attached to deepen this well

Approved by the Utah Division of Oil, Gas and Mining

Date: September 17, 2013

By: 

NAME (PLEASE PRINT) Ed Trotter	PHONE NUMBER 435 789-4120	TITLE Agent
SIGNATURE N/A	DATE 9/12/2013	

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	MD
Rig KB=15' above GGL		5996	0
Surface Formation = Uinta			
Uinta		5981	15
Green River		4724	1275
Trona		3369	2673
Mahogany Shale		3218	2830
"B" Marker	Waterflood Unit Interval	2072	3983
"X" Marker		1576	4479
Douglas Creek Marker		1431	4624
"B" Limestone		1029	5026
Base Castle Peak Limestone		492	5562
BSCARB		088	5967
Wasatch			-190
Formation at TD: Wasatch	Rig TD	-1990	7659

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

Substance	Formation	SUBSEA	MD
Base of moderately saline ground water*	not present	6000	0
Oil/Gas	Douglas Creek	1431	4624
Oil/Gas	Castle Peak	492	5562
Oil/Gas	Wasatch	-190	6245

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

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	55'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	495'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7659'	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 3983'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft ³ /sk)
	Bottom		Vol (ft ³)			
Conductor	0 55	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 495	Class G +2% CaCl ₂ +0.25 lb/sk Cello Flake	227 266	30%	15.8	1.17
Production Lead	0 3983	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	467 897	30%	12.5	1.92
Production Tail	3983 7659	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	567 828	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 495'MD.

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
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 the standards of Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 495'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 495' to 7659'. 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 POLLUTANTS

- 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.

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

7. EVALUATION PROGRAM:

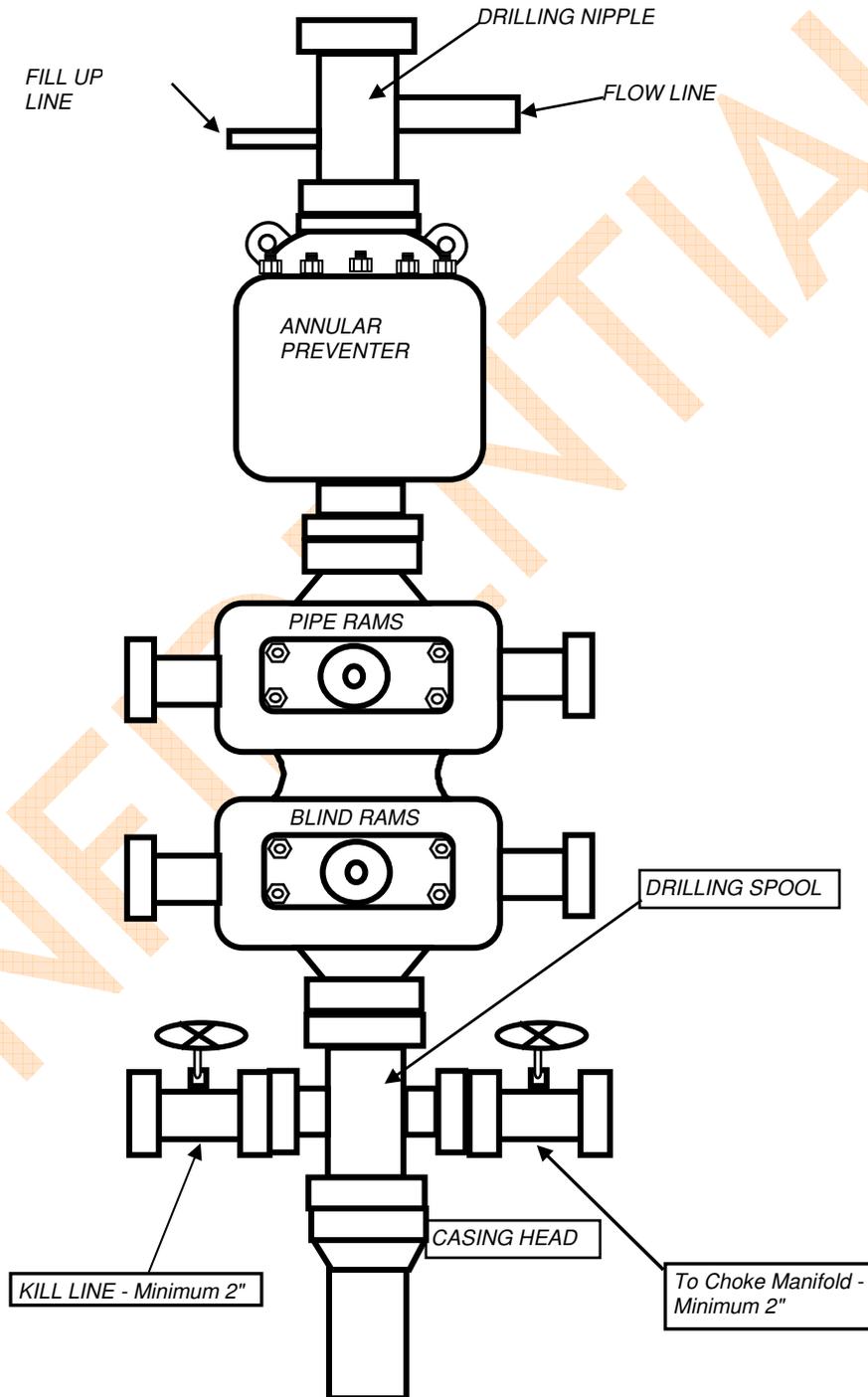
Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR only)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

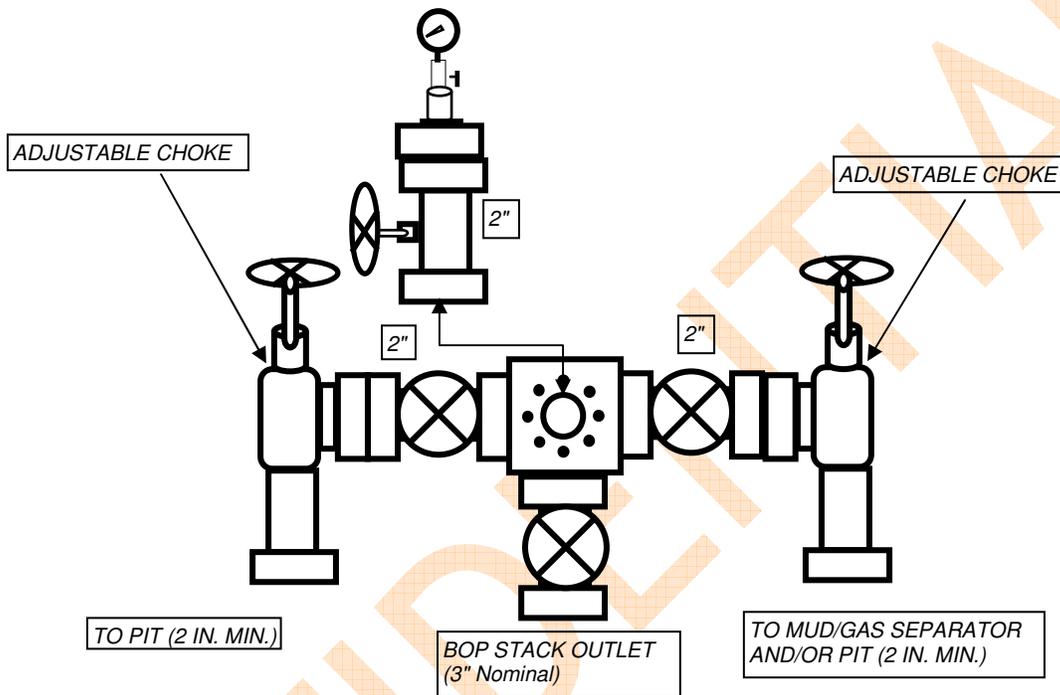
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1914.75 PSI (0.25 PSI/ft gradient).
- There exists in the area an abnormally pressured zone, at the approximate depth of the Trona marker (2673' MD). Pressure gradients up to 0.43 PSI/ft can be expected.

CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH

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



CONFIDENTIAL
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-10-E4
NW SE, SEC 1, T5W, R3W
DUCHESNE COUNTY, UTAH
TYPICAL 2,000 p.s.i. CHOKE MANIFOLD



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
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
1. TYPE OF WELL Oil Well	7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	9. API NUMBER: 43013515350000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FSL 1594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
	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"/> NOTICE OF INTENT Approximate date work will start: 1/15/2014	<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 type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" 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.

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

Date: December 30, 2013

By: 

NAME (PLEASE PRINT) Ed Trotter	PHONE NUMBER 435 789-4120	TITLE Agent
SIGNATURE N/A	DATE 12/24/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013515350000

API: 43013515350000

Well Name: Ute Tribal 01-10-E4

Location: 2367 FSL 1594 FEL QTR NWSE SEC 01 TWP 050S RNG 040W MER U

Company Permit Issued to: PETROGLYPH OPERATING CO

Date Original Permit Issued: 12/27/2012

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

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

Signature: Ed Trotter

Date: 12/24/2013

Title: Agent

Representing: PETROGLYPH OPERATING CO

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Capstar 334
Submitted By Levi Jacobs Phone Number 406-868-9935
Well Name/Number Ute Tribal 01-10-E4
Qtr/Qtr NWSE Section 1 Township 5S Range 4W
Lease Serial Number UTE 14-20-H62-4743
API Number 43-013-51535

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 05/08/2014 15:00 AM PM

BOPE

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

Date/Time _____ AM PM

Remarks Plan to run 163jts 5.5 casing set @7089. Sent @12:00pm 5/7/14.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		8. WELL NAME and NUMBER: Ute Tribal 01-10-E4	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		9. API NUMBER: 43013515350000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FSL 1594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON	
		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/3/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT 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 checked="" 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 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.			
The date of first production for this well was 07/03/2014.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 11, 2014			
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A		DATE 7/11/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
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 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013515350000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FSL 1594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON 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"/> NOTICE OF INTENT Approximate date work will start: 7/3/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT 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 checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input 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.

Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Mineral ownership is the same throughout the well bore and allocation between formations is not necessary. Petroglyph Operating has made all necessary notifications in accordance with with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
 July 31, 2014

Date: _____
 By: *Derek Quist*

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 7/14/2014	

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 14-20-H62-4743:

UTE TRIBAL 01-10-E4

This Affidavit is made in accordance with Utah’s Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

Petroglyph Energy, Inc.

Vera Johnson
Vera Johnson

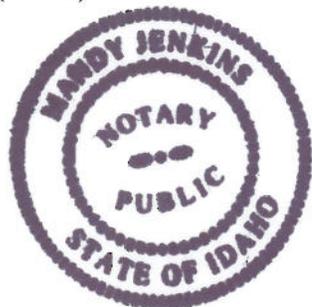
State of Idaho)
) ss
County of Ada)

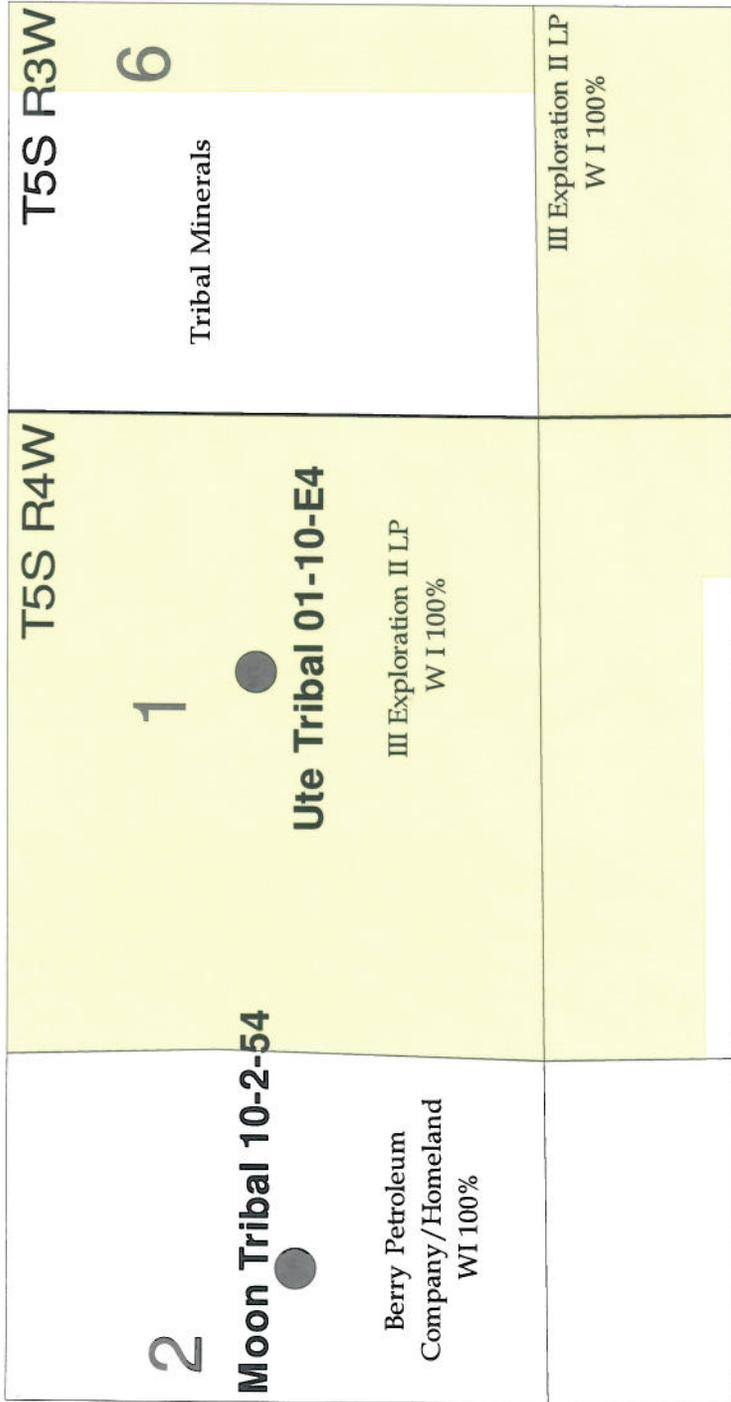
The above and foregoing Affidavit was subscribed and sworn to before me on the 9th day of July, 2014, by Vera Johnson.

Witness my hand and official seal.

Mandy Jenkins
Notary Public

(SEAL)





1 inch = 1500 feet



	ANTELOPE CREEK DUCHESNE COUNTY, UTAH
	Application for Commingling Ute Tribal 01-10-E4
<small> STATE OF UTAH DEPARTMENT OF HERITAGE AND ARTS 10-Jul-14 </small>	<small> Petroglyph Operating Co., 382 Eastway Ave., Suite 502, Broom, CO 81007 UTE TRIBAL 01-10-E4 PRE-CED (Ante) Report (containing 61 T484). pdf </small>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
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 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013515350000
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/16/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT 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.

Please see attached.

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

July 31, 2014

Date: _____

By: Dark Ount

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 6/16/2014	

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS			5 LEASE DESIGNATION AND SERIAL NUMBER 1420H624743
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 Indian Tribe
			7 UNIT or CA AGREEMENT NAME 1420H624650
1 TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8 WELL NAME and NUMBER Ute Tribal 01-10-E4		9 API NUMBER 4301351535
2 NAME OF OPERATOR Petroglyph Operating Company Inc.	3 ADDRESS OF OPERATOR P.O. Box 607 Roosevelt UT 84066		10 FIELD AND POOL OR W/LOCAT Antelope Creek
4 LOCATION OF WELL FOOTAGES AT SURFACE 2367' FSL, 1594' FEL		COUNTY Duchesne	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN NWSE 1 5S 4W U		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"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start <u>6/16/2014</u>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/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"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion _____			

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

On or around 6/14/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4177-80, 4294-96, 4340-45, 4593-96, 4635-38, 4660-62, 4790-95, 4804-16, 4869-71, 4909-11, 4960-62, 5280-84, 5296-99, 5306-10, 5340-43, 5436-41, 5450-53, 5460-63, 5507-12, 5536-37, 5554-70, 5573-76, 5846-49, 5860-67, 5877-79, 5913-15, 5965-67, 6011-13, 6022-26, 6041-44, 6048-50, 6063-65, 6080-81, 6122-24, 6261-66, 6294-96, 6338-43, 6390-6408, 6811-16, 6820-30 & 6836-40. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:

6811-6840: 22,400 Gals of fluid containing 40,000#'s of sand,
 6261-6408: 28,000 Gals of fluid containing 50,000#'s of sand,
 5965-6124: 28,000 Gals of fluid containing 50,000#'s of sand,
 5846-5915: 14,000 Gals of fluid containing 25,000#'s of sand,
 5436-5576: 47,600 Gals of fluid containing 85,000#'s of sand,
 5280-5343: 19,600 Gals of fluid containing 35,000#'s of sand,
 4790-4962: 33,600 Gals of fluid containing 60,000#'s of sand,
 4593-4662: 11,200 Gals of fluid containing 20,000#'s of sand,
 4177-4345: 25,000 Gals of fluid containing 25,000#'s of sand.

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

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE	DATE <u>6/12/2014</u>

(This space for State use only)

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 14-20-H62-4743:

UTE TRIBAL 01-10-E4

This Affidavit is made in accordance with Utah’s Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

Petroglyph Energy, Inc.

Vera Johnson
Vera Johnson

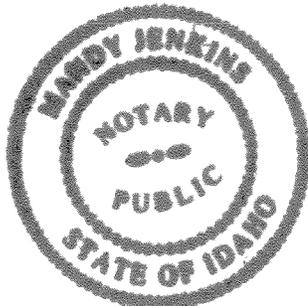
State of Idaho)
) ss
County of Ada)

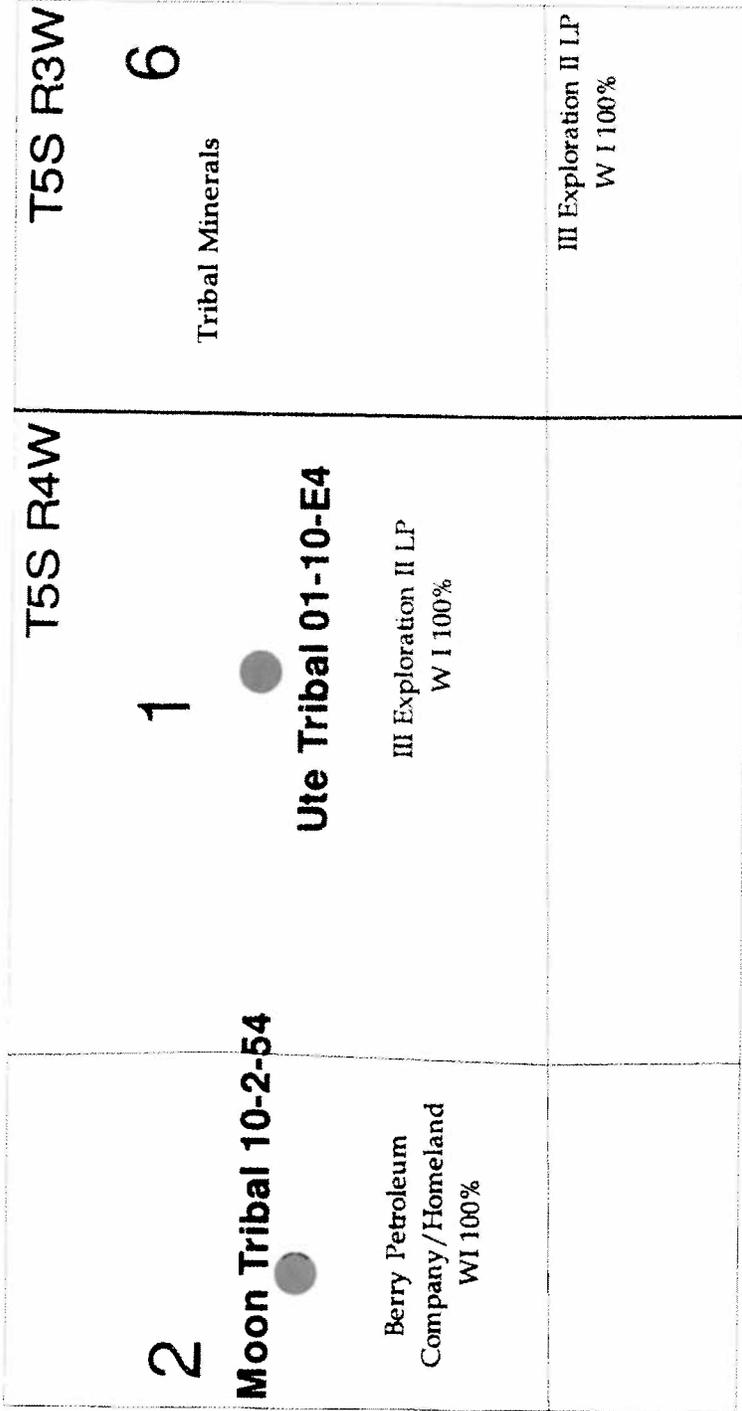
The above and foregoing Affidavit was subscribed and sworn to before me on the 9th day of July, 2014, by Vera Johnson.

Witness my hand and official seal.

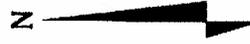
Mandy Jenkins
Notary Public

(SEAL)





1 inch = 1500 feet



PETROGLYPH 	ANTELOPE CREEK Duchesne County, Utah
Application for Commencing Ute Tribal 01-10-E4	
EG 1534 2014	10-Jul-14

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FSL 1594 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013515350000
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/30/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input checked="" type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;">Please see attached.</p> <div style="text-align: right; margin-top: 20px;"> <p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>October 01, 2014</p> </div>		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 10/1/2014	

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		8. WELL NAME and NUMBER: Ute Tribal 01-10-E4
PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301351535
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: 2367' FSL, 1594' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2303' FSL, 2069' FEL AT TOTAL DEPTH: 2277' FSL, 2132' FEL		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 1 5S 4W U
		12. COUNTY: Duchesne 13. STATE: UTAH

14. DATE SPUDED: 4/10/2014	15. DATE T.D. REACHED: 5/7/2014	16. DATE COMPLETED: 6/30/2014	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5,994' RKB
18. TOTAL DEPTH: MD 7,100 TVD 7,064	19. PLUG BACK T.D.: MD 7,010 TVD 6,974	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) ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73				0	Conductor
12.25	8.625 J-55	24	0	513		G 350	72	0	
7.875	5.5 J-55	15.5	0	7,090		G 1,005	334	0 CBL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6,861							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Wasatch	6,261	6,840	6,225	6,804	6,261 6,840	0.42	196	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) Green River	4,177	6,124	4,143	6,088	4,177 6,124	0.42	468	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,261'-6,840'	1,445 Bbls of Dyna LP 22 18# Gelled Fluid containing 90,500#'s of 20/40 Mesh Sand.
4,177'-6,124'	4,344 Bbls of Dyna LP 22 18# Gelled Fluid containing 324,220#'s of 20/40 Mesh Sand.

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

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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 7/3/2014		TEST DATE: 7/27/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 83	GAS – MCF: 20	WATER – BBL: 40	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 250	CSG. PRESS. 226	API GRAVITY 42.00	BTU – GAS 1	GAS/OIL RATIO 241	24 HR PRODUCTION RATES: →	OIL – BBL: 83	GAS – MCF: 20	WATER – BBL: 40	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: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

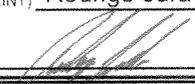
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Mahogany	2,984
				Garden Gulch	3,540
				B Marker	3,956
				X Marker	4,456
				Y Marker	4,492
				Douglas Creek	4,604
				B Lime	5,006
				Castle Peak	5,548
				Basal Carbonate	5,953
				Wasatch	6,226

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist
 SIGNATURE  DATE 10/27/2014

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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801



Job Number: UT141419
 Company: Petroglyph
 Lease/Well: Ute Tribal_01-10-E4
 Location: Sec. 1, T5S, R4W
 Rig Name: Capstar #334
 RKB: 5994'
 G.L. or M.S.L.: GL_5981'

State/Country: Utah/USA
 Declination: 11.04
 Grid: True
 File name: C:\WINSERVE\UT141419.SVY
 Date/Time: 07-May-14 / 21:12
 Curve Name: Ute Tribal_01-10-E4_Actual

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 261.00
 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		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
535.00	.62	185.10	534.99	-2.88	-.26	.71	2.89	185.10	.12
627.00	1.30	247.30	626.98	-3.78	-1.26	1.84	3.99	198.49	1.25
719.00	3.10	259.90	718.91	-4.62	-4.68	5.34	6.57	225.34	2.01
811.00	3.90	260.40	810.73	-5.58	-10.21	10.96	11.64	241.35	.87
902.00	5.10	259.10	901.45	-6.86	-17.23	18.09	18.55	248.30	1.32
994.00	6.10	264.50	993.01	-8.10	-26.12	27.06	27.34	252.76	1.23
1085.00	5.80	265.50	1083.52	-8.93	-35.51	36.47	36.62	255.89	.35
1176.00	6.60	264.30	1173.99	-9.81	-45.30	46.28	46.35	257.79	.89
1268.00	8.00	259.70	1265.24	-11.48	-56.86	57.96	58.01	258.59	1.65
1359.00	8.70	261.50	1355.28	-13.63	-69.90	71.17	71.21	258.97	.82
1450.00	9.50	262.30	1445.13	-15.65	-84.15	85.56	85.59	259.46	.89
1541.00	8.60	259.60	1535.00	-17.88	-98.28	99.87	99.89	259.69	1.09

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S		E-W		Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT	FT	FT	FT		Distance FT	Direction Deg	
1633.00	9.40	262.30	1625.86	-20.13	-112.49	114.26	114.28	259.85	.98		
1724.00	9.60	262.80	1715.62	-22.08	-127.38	129.27	129.28	260.17	.24		
1815.00	8.80	261.90	1805.45	-24.01	-141.80	143.81	143.82	260.39	.89		
1906.00	9.20	263.20	1895.33	-25.85	-155.92	158.04	158.05	260.59	.49		
1998.00	9.80	265.30	1986.06	-27.36	-171.03	173.20	173.20	260.91	.75		
2089.00	9.00	263.60	2075.84	-28.79	-185.82	188.03	188.04	261.19	.93		
2180.00	9.70	259.00	2165.63	-31.05	-200.42	202.81	202.81	261.19	1.12		
2272.00	9.90	259.30	2256.29	-34.00	-215.80	218.46	218.46	261.05	.22		
2363.00	8.40	264.20	2346.13	-36.12	-230.10	232.91	232.91	261.08	1.86		
2455.00	8.17	267.38	2437.17	-37.10	-243.31	246.12	246.12	261.33	.56		
2546.00	8.13	269.26	2527.25	-37.48	-256.21	258.91	258.93	261.68	.30		
2637.00	8.53	267.24	2617.29	-37.89	-269.38	271.99	272.03	261.99	.54		
2728.00	9.01	265.40	2707.23	-38.78	-283.22	285.80	285.87	262.20	.61		
2819.00	9.23	261.40	2797.08	-40.44	-297.54	300.21	300.28	262.26	.74		
2911.00	9.32	255.95	2887.88	-43.36	-312.07	315.01	315.06	262.09	.96		
3002.00	8.88	255.38	2977.73	-46.92	-326.01	329.34	329.37	261.81	.49		
3093.00	8.49	261.22	3067.69	-49.72	-339.45	343.04	343.07	261.67	1.06		
3185.00	7.82	269.53	3158.76	-50.80	-352.42	356.03	356.06	261.80	1.47		
3276.00	7.69	268.12	3248.93	-51.05	-364.69	368.19	368.25	262.03	.25		
3367.00	8.06	263.98	3339.07	-51.92	-377.12	380.60	380.68	262.16	.74		
3459.00	8.31	263.29	3430.14	-53.38	-390.14	393.69	393.77	262.21	.29		
3550.00	7.40	260.10	3520.28	-55.15	-402.44	406.12	406.21	262.20	1.11		
3642.00	7.10	265.00	3611.55	-56.67	-413.94	417.71	417.80	262.20	.75		
3733.00	7.70	267.30	3701.79	-57.44	-425.64	429.38	429.50	262.31	.74		
3824.00	7.00	265.00	3792.04	-58.21	-437.25	440.97	441.11	262.42	.83		
3916.00	6.50	263.30	3883.40	-59.31	-448.01	451.77	451.92	262.46	.59		
4007.00	6.00	261.30	3973.86	-60.63	-457.82	461.67	461.82	262.46	.60		
4098.00	5.70	258.70	4064.39	-62.24	-466.96	470.94	471.09	262.41	.44		
4190.00	4.90	254.50	4155.99	-64.18	-475.22	479.41	479.54	262.31	.97		
4281.00	4.70	265.00	4246.68	-65.55	-482.68	486.99	487.11	262.27	.99		
4372.00	4.40	264.70	4337.39	-66.19	-489.87	494.20	494.32	262.30	.33		
4463.00	3.80	261.20	4428.16	-66.98	-496.33	500.69	500.83	262.31	.71		
4555.00	3.50	256.90	4519.97	-68.08	-502.08	506.54	506.67	262.28	.44		
4646.00	4.40	264.50	4610.75	-69.04	-508.26	512.80	512.92	262.26	1.14		

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	
4737.00	4.30	264.10	4701.49	-69.73	-515.12	519.69	519.82	262.29	.11
4828.00	3.70	261.80	4792.27	-70.50	-521.42	526.03	526.17	262.30	.68
4919.00	3.00	255.80	4883.11	-71.50	-526.64	531.34	531.47	262.27	.86
5011.00	2.80	254.00	4975.00	-72.71	-531.13	535.97	536.09	262.20	.24
5102.00	2.60	250.60	5065.89	-74.01	-535.22	540.20	540.31	262.13	.28
5193.00	2.70	244.70	5156.80	-75.61	-539.10	544.29	544.38	262.02	.32
5284.00	.62	232.10	5247.75	-76.83	-541.43	546.78	546.85	261.92	2.31
5376.00	.75	164.50	5339.75	-77.72	-541.66	547.15	547.21	261.84	.84
5467.00	.62	173.60	5430.74	-78.78	-541.44	547.10	547.15	261.72	.19
5559.00	.83	170.30	5522.74	-79.93	-541.28	547.12	547.15	261.60	.23
5650.00	.97	180.50	5613.72	-81.35	-541.17	547.24	547.25	261.45	.23
5741.00	1.00	196.20	5704.71	-82.88	-541.40	547.70	547.71	261.30	.30
5832.00	.70	140.90	5795.70	-84.08	-541.27	547.76	547.76	261.17	.91
5924.00	.80	164.10	5887.69	-85.13	-540.74	547.40	547.40	261.05	.34
6015.00	.40	97.40	5978.69	-85.78	-540.25	547.02	547.02	260.98	.81
6106.00	.60	115.40	6069.69	-86.03	-539.51	546.32	546.32	260.94	.28
6197.00	.40	121.70	6160.68	-86.40	-538.81	545.69	545.69	260.89	.23
6289.00	.30	117.80	6252.68	-86.68	-538.32	545.25	545.25	260.85	.11
6380.00	.40	133.70	6343.68	-87.01	-537.88	544.87	544.87	260.81	.15
6471.00	.20	110.60	6434.68	-87.29	-537.50	544.54	544.54	260.78	.25
6563.00	.30	149.20	6526.68	-87.55	-537.23	544.31	544.31	260.74	.21
6654.00	.30	174.50	6617.68	-87.99	-537.08	544.24	544.24	260.70	.14
6746.00	.30	196.80	6709.68	-88.46	-537.13	544.36	544.37	260.65	.13
6837.00	.30	188.50	6800.67	-88.93	-537.23	544.53	544.54	260.60	.05
6928.00	.40	222.40	6891.67	-89.40	-537.48	544.85	544.87	260.56	.25
Final Survey									
7019.00	.40	229.50	6982.67	-89.84	-537.94	545.37	545.39	260.52	.05
Projected to bit									
7100.00	.40	229.50	7063.67	-90.20	-538.37	545.85	545.87	260.49	.00

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 01-10-E4

API number: 4301351535

Well Location: QQ NWSE Section 1 Township 5S Range 4W 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: ProPetro Services

Address: 1422 East 1500 South

city Vernal state UT zip 84078

Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	513	0	No Water Encountered

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

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

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

NAME (PLEASE PRINT) Rodrigo Jurado

TITLE Regulatory Compliance Specialist

SIGNATURE 

DATE 4/18/2014