

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 12-01-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, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H624743			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 checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') 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		21 FSL 1198 FEL		SESE	1	5.0 S	4.0 W	U		
Top of Uppermost Producing Zone		660 FNL 660 FEL		NENE	12	5.0 S	4.0 W	U		
At Total Depth		660 FNL 660 FEL		NENE	12	5.0 S	4.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 21			23. NUMBER OF ACRES IN DRILLING UNIT 707				
27. ELEVATION - GROUND LEVEL 5909			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 826			26. PROPOSED DEPTH MD: 7662 TVD: 7559				
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 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 493	24.0	J-55 ST&C	10.0	Class G	226	1.17	15.8
Prod	7.875	5.5	0 - 7662	15.5	J-55 LT&C	10.0	Class G	474	1.86	12.5
							Class G	582	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 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 08/21/2013			EMAIL edtrotter@easilink.com				
API NUMBER ASSIGNED 43013524010000					APPROVAL					

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 12-01-E4
SE SE, SEC 1, T5S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Elevation	TVD	MD
Rig KB~13' above GGL	5922	0	0
Surface Formation = Uinta			
Uinta	5909	13	13
Green River	4746	1176	1178
Trona	3408	2514	2557
Mahogany Shale	3256	2666	2715
"B" Marker	2124	3798	3889
"X" Marker	1629	4293	4393
Douglas Creek Marker	1480	4442	4544
"B" Limestone	1085	4837	4940
Base Castle Peak Limestone	545	5377	5480
BSCARB	138	5784	5887
Wasatch	-137	6059	6162
Formation at TD: Wasatch Rig TD	-1637	7559	7662

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

Substance	Formation	Elevation	TVD	MD
Base of moderately saline ground water*	not present	6000	NA	NA
Oil/Gas	Douglas Creek	1480	4442	4544
Oil/Gas	Castle Peak	545	5377	5480
Oil/Gas	Wasatch	-137	6059	6162

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	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7662'	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 3889' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft ³ /sk)
	Bottom		Vol (ft ³)			
Conductor	0 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 493	Class G +2% CaCl ₂ +0.25 lb/sk Cello Flake	226 264	30%	15.8	1.17
Production Lead	0 3889	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	474 876	30%	12.5	1.85
Production Tail	3889 7662	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	582 850	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 493' 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.
- 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 493'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 493' to 7662'. 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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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:

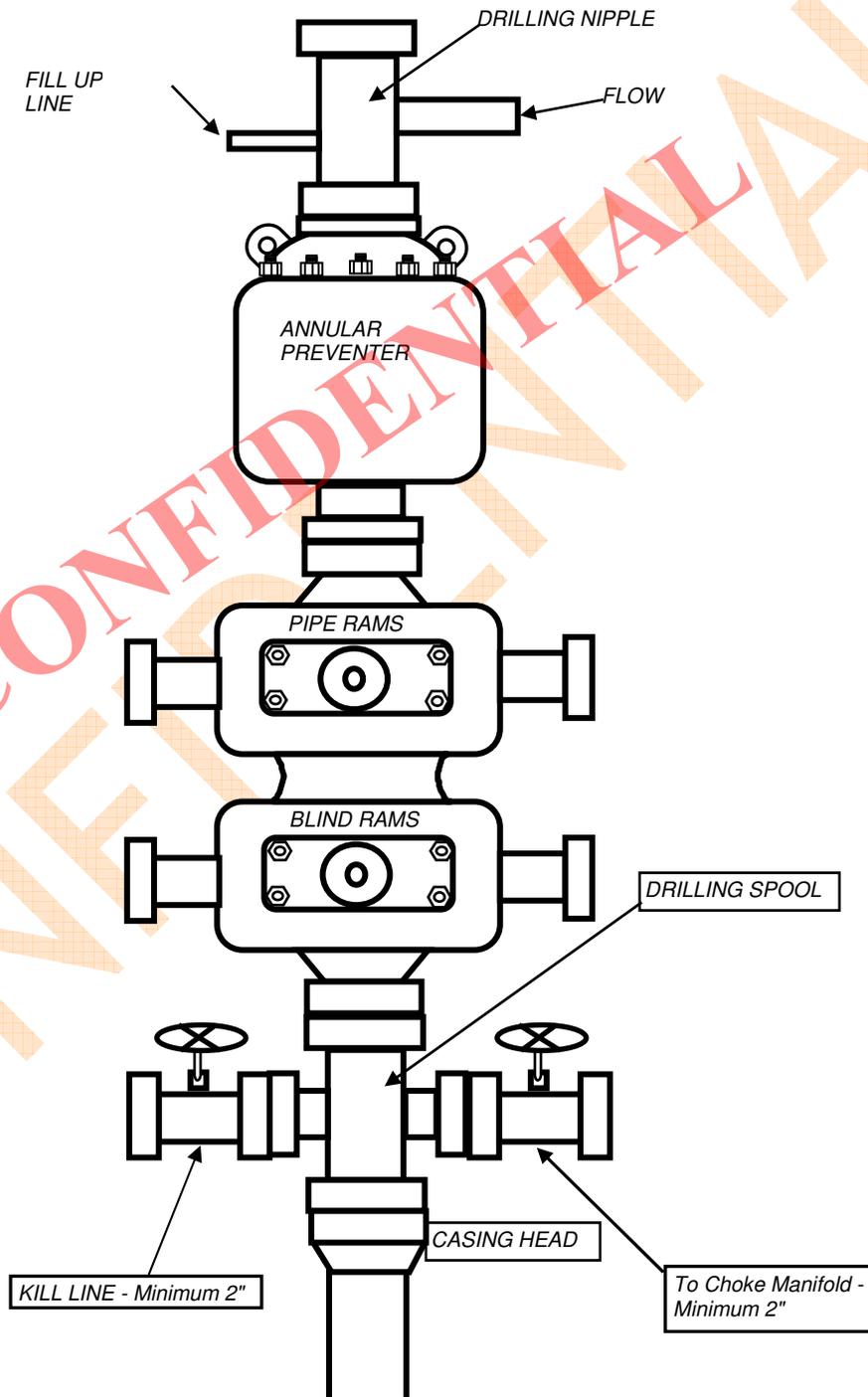
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1916 PSI (0.25 PSI/ft gradient).
- There exists in the area an abnormally pressured zone, at the approximate depth of the Trona marker (2557' MD). Pressure gradients up to 0.43 PSI/ft can be expected.

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.
- Directional drilling plan is attached.

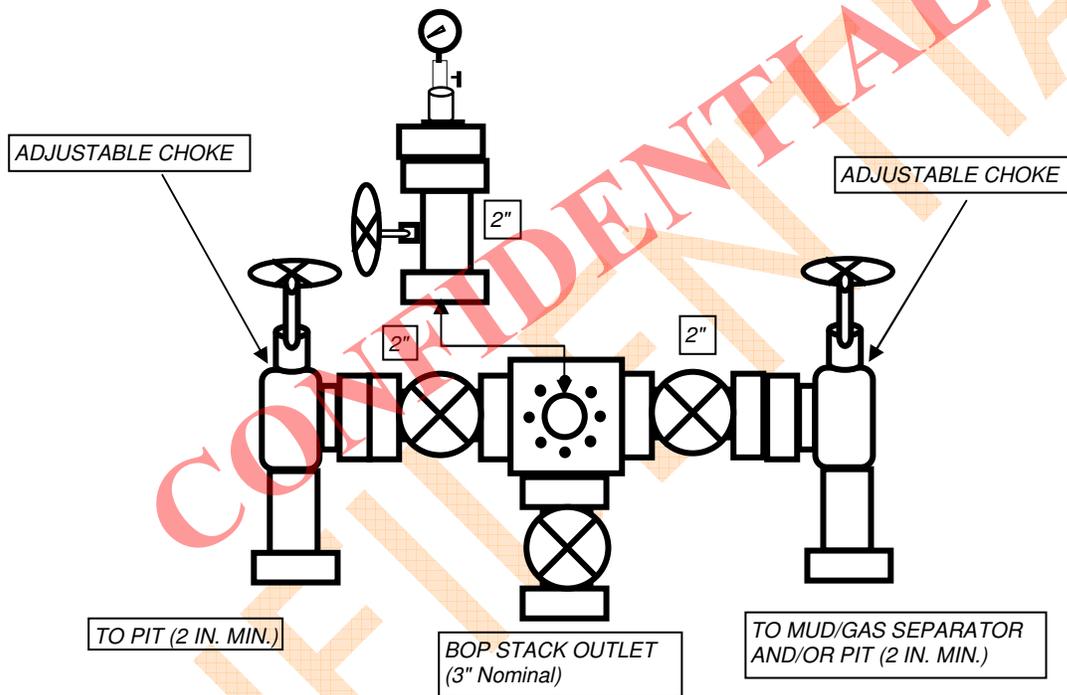
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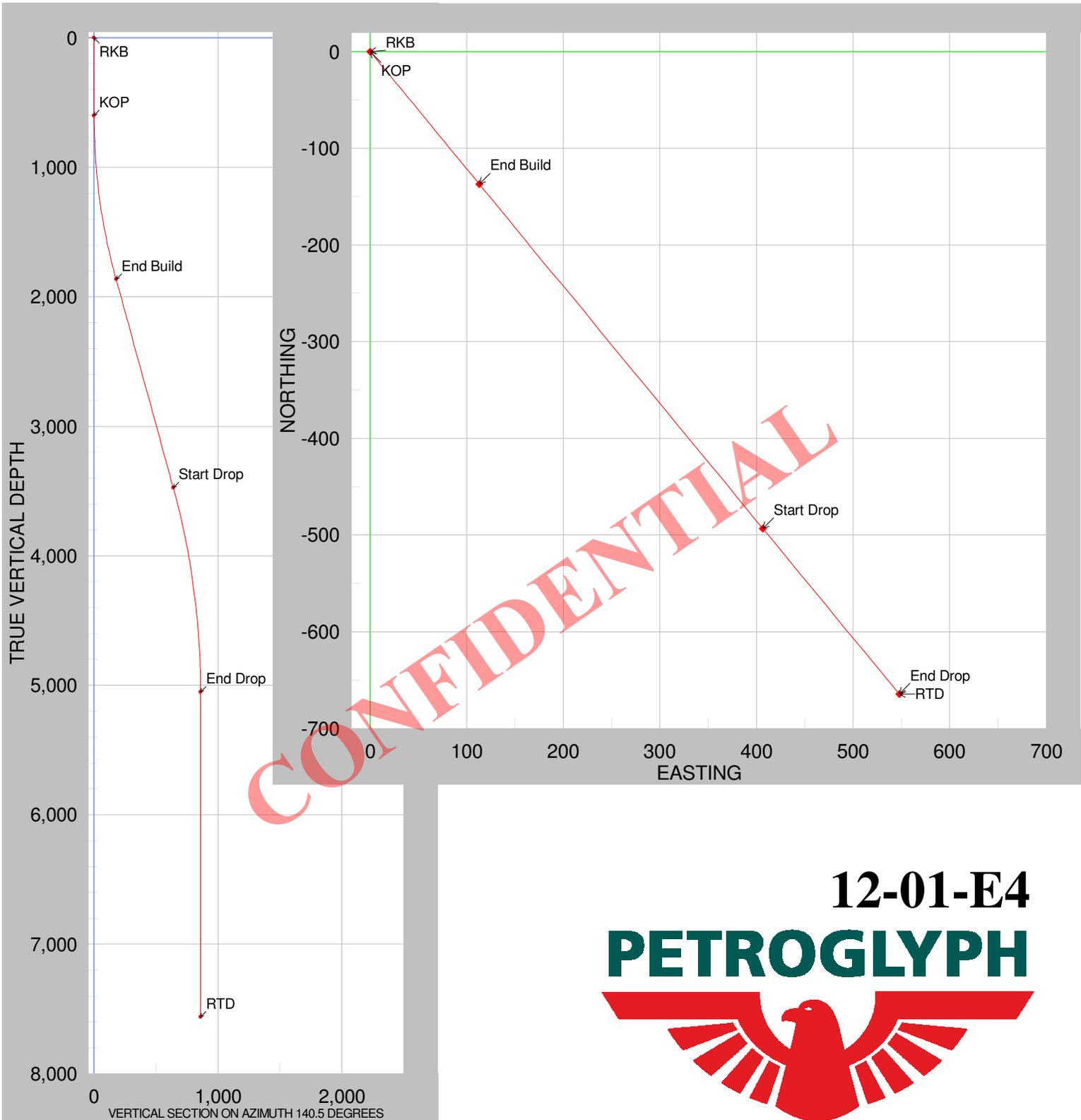
TYPICAL BLOWOUT PREVENTER



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TYPICAL CHOKE MANIFOLD





12-01-E4
PETROGLYPH

#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1880.00	16.00	140.50	1863.43	-137.01	112.94	1.25	177.56
3	Start Drop	Tangent	3555.00	16.00	140.50	3473.54	-493.27	406.62	0.00	639.26
4	End Drop	Drop	5155.00	0.00	0.00	5052.83	-664.53	547.80	1.00	861.21
5	RTD	Vertical	7662.00	0.00	0.00	7559.83	-664.53	547.80	0.00	861.21

12-01-E4, Plan 1

Operator	Units feet, %/100ft	16:30 Thursday, August 08, 2013 Page 1 of 5
Field	County	Vertical Section Azimuth 140.5
Well Name 12-01-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location 21' FNL & 1198' FEL BHL: 660' FNL & 660' FEL	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	140.5	650.00	-0.21	0.17	1.25	0.27			
700.00	1.25	140.5	699.99	-0.84	0.69	1.25	1.09			
750.00	1.88	140.5	749.97	-1.89	1.56	1.25	2.45			
800.00	2.50	140.5	799.94	-3.37	2.78	1.25	4.36			
850.00	3.13	140.5	849.88	-5.26	4.34	1.25	6.82			
900.00	3.75	140.5	899.79	-7.57	6.24	1.25	9.81			
950.00	4.38	140.5	949.66	-10.31	8.50	1.25	13.36			
1000.00	5.00	140.5	999.49	-13.46	11.09	1.25	17.44			
1050.00	5.63	140.5	1049.28	-17.03	14.04	1.25	22.07			
1100.00	6.25	140.5	1099.01	-21.02	17.33	1.25	27.24			
1150.00	6.88	140.5	1148.68	-25.43	20.96	1.25	32.96			
1200.00	7.50	140.5	1198.29	-30.26	24.94	1.25	39.21			
1250.00	8.13	140.5	1247.82	-35.50	29.27	1.25	46.01			
1300.00	8.75	140.5	1297.28	-41.16	33.93	1.25	53.35			
1350.00	9.38	140.5	1346.66	-47.24	38.94	1.25	61.22			
1400.00	10.00	140.5	1395.94	-53.73	44.29	1.25	69.64			
1450.00	10.63	140.5	1445.14	-60.64	49.99	1.25	78.59			
1500.00	11.25	140.5	1494.23	-67.96	56.02	1.25	88.07			
1550.00	11.88	140.5	1543.21	-75.69	62.40	1.25	98.10			
1600.00	12.50	140.5	1592.09	-83.84	69.11	1.25	108.65			
1650.00	13.13	140.5	1640.84	-92.39	76.16	1.25	119.74			

12-01-E4, Plan 1

Operator	Units feet, %/100ft	16:30 Thursday, August 08, 2013 Page 2 of 5
Field	County	Vertical Section Azimuth 140.5
Well Name 12-01-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location 21' FNL & 1198' FEL BHL: 660' FNL & 660' FEL	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	140.5	1689.47	-101.36	83.55	1.25	131.36			
1750.00	14.38	140.5	1737.97	-110.73	91.28	1.25	143.51			
1800.00	15.00	140.5	1786.34	-120.52	99.35	1.25	156.18			
1850.00	15.63	140.5	1834.56	-130.70	107.74	1.25	169.39			
*** END BUILD (at MD = 1880.00)										
1880.00	16.00	140.5	1863.43	-137.01	112.94	1.25	177.56			
1900.00	16.00	140.5	1882.65	-141.27	116.45	0.00	183.08			
1950.00	16.00	140.5	1930.72	-151.90	125.22	0.00	196.86			
2000.00	16.00	140.5	1978.78	-162.53	133.98	0.00	210.64			
2050.00	16.00	140.5	2026.84	-173.17	142.75	0.00	224.42			
2100.00	16.00	140.5	2074.91	-183.80	151.52	0.00	238.20			
2150.00	16.00	140.5	2122.97	-194.44	160.28	0.00	251.99			
2200.00	16.00	140.5	2171.03	-205.07	169.05	0.00	265.77			
2250.00	16.00	140.5	2219.10	-215.71	177.82	0.00	279.55			
2300.00	16.00	140.5	2267.16	-226.34	186.58	0.00	293.33			
2350.00	16.00	140.5	2315.22	-236.98	195.35	0.00	307.11			
2400.00	16.00	140.5	2363.28	-247.61	204.11	0.00	320.89			
2450.00	16.00	140.5	2411.35	-258.24	212.88	0.00	334.68			
2500.00	16.00	140.5	2459.41	-268.88	221.65	0.00	348.46			
2550.00	16.00	140.5	2507.47	-279.51	230.41	0.00	362.24			
2600.00	16.00	140.5	2555.54	-290.15	239.18	0.00	376.02			
2650.00	16.00	140.5	2603.60	-300.78	247.95	0.00	389.80			
2700.00	16.00	140.5	2651.66	-311.42	256.71	0.00	403.59			
2750.00	16.00	140.5	2699.73	-322.05	265.48	0.00	417.37			
2800.00	16.00	140.5	2747.79	-332.69	274.24	0.00	431.15			
2850.00	16.00	140.5	2795.85	-343.32	283.01	0.00	444.93			
2900.00	16.00	140.5	2843.92	-353.95	291.78	0.00	458.71			
2950.00	16.00	140.5	2891.98	-364.59	300.54	0.00	472.50			
3000.00	16.00	140.5	2940.04	-375.22	309.31	0.00	486.28			
3050.00	16.00	140.5	2988.10	-385.86	318.08	0.00	500.06			
3100.00	16.00	140.5	3036.17	-396.49	326.84	0.00	513.84			
3150.00	16.00	140.5	3084.23	-407.13	335.61	0.00	527.62			
3200.00	16.00	140.5	3132.29	-417.76	344.38	0.00	541.40			
3250.00	16.00	140.5	3180.36	-428.40	353.14	0.00	555.19			
3300.00	16.00	140.5	3228.42	-439.03	361.91	0.00	568.97			

12-01-E4, Plan 1

Operator	Units feet, %/100ft	16:30 Thursday, August 08, 2013 Page 3 of 5
Field	County	Vertical Section Azimuth 140.5
Well Name 12-01-E4	State	Survey Calculation Method Minimum Curvature
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Location 21' FNL & 1198' FEL BHL: 660' FNL & 660' FEL	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
3350.00	16.00	140.5	3276.48	-449.66	370.67	0.00	582.75			
3400.00	16.00	140.5	3324.55	-460.30	379.44	0.00	596.53			
3450.00	16.00	140.5	3372.61	-470.93	388.21	0.00	610.31			
3500.00	16.00	140.5	3420.67	-481.57	396.97	0.00	624.10			
3550.00	16.00	140.5	3468.74	-492.20	405.74	0.00	637.88			
*** START DROP (at MD = 3555.00)										
3555.00	16.00	140.5	3473.54	-493.27	406.62	0.00	639.26			
3600.00	15.55	140.5	3516.85	-502.71	414.40	1.00	651.49			
3650.00	15.05	140.5	3565.07	-512.89	422.79	1.00	664.68			
3700.00	14.55	140.5	3613.42	-522.74	430.91	1.00	677.46			
3750.00	14.05	140.5	3661.87	-532.27	438.77	1.00	689.81			
3800.00	13.55	140.5	3710.42	-541.47	446.36	1.00	701.73			
3850.00	13.05	140.5	3759.08	-550.35	453.67	1.00	713.23			
3900.00	12.55	140.5	3807.84	-558.90	460.72	1.00	724.31			
3950.00	12.05	140.5	3856.69	-567.12	467.49	1.00	734.96			
4000.00	11.55	140.5	3905.63	-575.01	474.00	1.00	745.19			
4050.00	11.05	140.5	3954.66	-582.57	480.23	1.00	754.99			
4100.00	10.55	140.5	4003.78	-589.79	486.19	1.00	764.35			
4150.00	10.05	140.5	4052.97	-596.69	491.88	1.00	773.29			
4200.00	9.55	140.5	4102.24	-603.26	497.29	1.00	781.80			
4250.00	9.05	140.5	4151.59	-609.49	502.43	1.00	789.89			
4300.00	8.55	140.5	4201.00	-615.40	507.29	1.00	797.53			
4350.00	8.05	140.5	4250.47	-620.97	511.89	1.00	804.75			
4400.00	7.55	140.5	4300.01	-626.20	516.20	1.00	811.54			
4450.00	7.05	140.5	4349.61	-631.10	520.24	1.00	817.89			
4500.00	6.55	140.5	4399.25	-635.67	524.01	1.00	823.81			
4550.00	6.05	140.5	4448.95	-639.91	527.50	1.00	829.30			
4600.00	5.55	140.5	4498.70	-643.81	530.71	1.00	834.35			
4650.00	5.05	140.5	4548.48	-647.37	533.65	1.00	838.97			
4700.00	4.55	140.5	4598.31	-650.60	536.31	1.00	843.15			
4750.00	4.05	140.5	4648.16	-653.49	538.70	1.00	846.90			
4800.00	3.55	140.5	4698.05	-656.05	540.80	1.00	850.22			
4850.00	3.05	140.5	4747.97	-658.27	542.63	1.00	853.09			
4900.00	2.55	140.5	4797.91	-660.15	544.19	1.00	855.54			
4950.00	2.05	140.5	4847.87	-661.70	545.46	1.00	857.54			

12-01-E4, Plan 1

Operator	Units feet, %/100ft	16:30 Thursday, August 08, 2013 Page 4 of 5
Field	County	Vertical Section Azimuth 140.5
Well Name 12-01-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location 21' FNL & 1198' FEL BHL: 660' FNL & 660' FEL	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
5000.00	1.55	140.5	4897.85	-662.91	546.46	1.00	859.11			
5050.00	1.05	140.5	4947.83	-663.79	547.19	1.00	860.25			
5100.00	0.55	140.5	4997.83	-664.33	547.63	1.00	860.95			
5150.00	0.05	140.5	5047.83	-664.53	547.80	1.00	861.21			
*** END DROP (at MD = 5155.00)										
5155.00	0.00	0.0	5052.83	-664.53	547.80	1.00	861.21			
5200.00	0.00	0.0	5097.83	-664.53	547.80	0.00	861.21			
5250.00	0.00	0.0	5147.83	-664.53	547.80	0.00	861.21			
5300.00	0.00	0.0	5197.83	-664.53	547.80	0.00	861.21			
5350.00	0.00	0.0	5247.83	-664.53	547.80	0.00	861.21			
5400.00	0.00	0.0	5297.83	-664.53	547.80	0.00	861.21			
5450.00	0.00	0.0	5347.83	-664.53	547.80	0.00	861.21			
5500.00	0.00	0.0	5397.83	-664.53	547.80	0.00	861.21			
5550.00	0.00	0.0	5447.83	-664.53	547.80	0.00	861.21			
5600.00	0.00	0.0	5497.83	-664.53	547.80	0.00	861.21			
5650.00	0.00	0.0	5547.83	-664.53	547.80	0.00	861.21			
5700.00	0.00	0.0	5597.83	-664.53	547.80	0.00	861.21			
5750.00	0.00	0.0	5647.83	-664.53	547.80	0.00	861.21			
5800.00	0.00	0.0	5697.83	-664.53	547.80	0.00	861.21			
5850.00	0.00	0.0	5747.83	-664.53	547.80	0.00	861.21			
5900.00	0.00	0.0	5797.83	-664.53	547.80	0.00	861.21			
5950.00	0.00	0.0	5847.83	-664.53	547.80	0.00	861.21			
6000.00	0.00	0.0	5897.83	-664.53	547.80	0.00	861.21			
6050.00	0.00	0.0	5947.83	-664.53	547.80	0.00	861.21			
6100.00	0.00	0.0	5997.83	-664.53	547.80	0.00	861.21			
6150.00	0.00	0.0	6047.83	-664.53	547.80	0.00	861.21			
6200.00	0.00	0.0	6097.83	-664.53	547.80	0.00	861.21			
6250.00	0.00	0.0	6147.83	-664.53	547.80	0.00	861.21			
6300.00	0.00	0.0	6197.83	-664.53	547.80	0.00	861.21			
6350.00	0.00	0.0	6247.83	-664.53	547.80	0.00	861.21			
6400.00	0.00	0.0	6297.83	-664.53	547.80	0.00	861.21			
6450.00	0.00	0.0	6347.83	-664.53	547.80	0.00	861.21			
6500.00	0.00	0.0	6397.83	-664.53	547.80	0.00	861.21			
6550.00	0.00	0.0	6447.83	-664.53	547.80	0.00	861.21			
6600.00	0.00	0.0	6497.83	-664.53	547.80	0.00	861.21			

12-01-E4, Plan 1

Operator	Units feet, %/100ft	16:30 Thursday, August 08, 2013 Page 5 of 5
Field	County	Vertical Section Azimuth 140.5
Well Name 12-01-E4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location 21' FNL & 1198' FEL BHL: 660' FNL & 660' FEL	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
6650.00	0.00	0.0	6547.83	-664.53	547.80	0.00	861.21			
6700.00	0.00	0.0	6597.83	-664.53	547.80	0.00	861.21			
6750.00	0.00	0.0	6647.83	-664.53	547.80	0.00	861.21			
6800.00	0.00	0.0	6697.83	-664.53	547.80	0.00	861.21			
6850.00	0.00	0.0	6747.83	-664.53	547.80	0.00	861.21			
6900.00	0.00	0.0	6797.83	-664.53	547.80	0.00	861.21			
6950.00	0.00	0.0	6847.83	-664.53	547.80	0.00	861.21			
7000.00	0.00	0.0	6897.83	-664.53	547.80	0.00	861.21			
7050.00	0.00	0.0	6947.83	-664.53	547.80	0.00	861.21			
7100.00	0.00	0.0	6997.83	-664.53	547.80	0.00	861.21			
7150.00	0.00	0.0	7047.83	-664.53	547.80	0.00	861.21			
7200.00	0.00	0.0	7097.83	-664.53	547.80	0.00	861.21			
7250.00	0.00	0.0	7147.83	-664.53	547.80	0.00	861.21			
7300.00	0.00	0.0	7197.83	-664.53	547.80	0.00	861.21			
7350.00	0.00	0.0	7247.83	-664.53	547.80	0.00	861.21			
7400.00	0.00	0.0	7297.83	-664.53	547.80	0.00	861.21			
7450.00	0.00	0.0	7347.83	-664.53	547.80	0.00	861.21			
7500.00	0.00	0.0	7397.83	-664.53	547.80	0.00	861.21			
7550.00	0.00	0.0	7447.83	-664.53	547.80	0.00	861.21			
7600.00	0.00	0.0	7497.83	-664.53	547.80	0.00	861.21			
7650.00	0.00	0.0	7547.83	-664.53	547.80	0.00	861.21			
*** RTD (at MD = 7662.00)										
7662.00	0.00	0.0	7559.83	-664.53	547.80	0.00	861.21			

T5S, R4W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

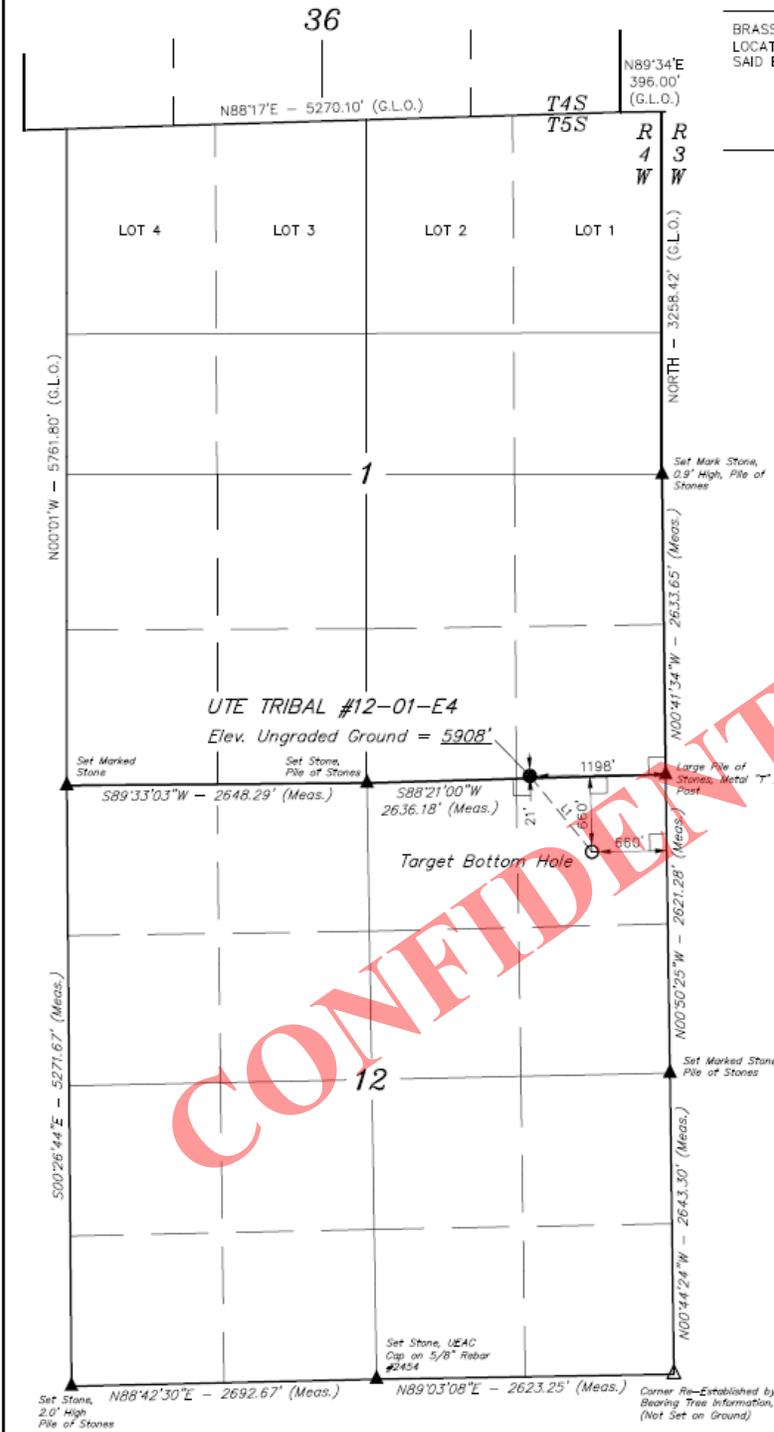
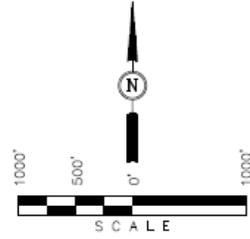
Well location, UTE TRIBAL #12-01-E4, located as shown in the SE 1/4 SE 1/4 of Section 1, T5S, R4W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BRASS CAP SET IN CONCRETE BY SUNRISE ENGINEERING LOCATED IN THE SE 1/4 OF SECTION 16, T5S, R3W, U.S.B.&M. SAID ELEVATION IS MARKED AS BEING 6281.9 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S39°27'41"E	881.57'

- LEGEND:**
- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
 - △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

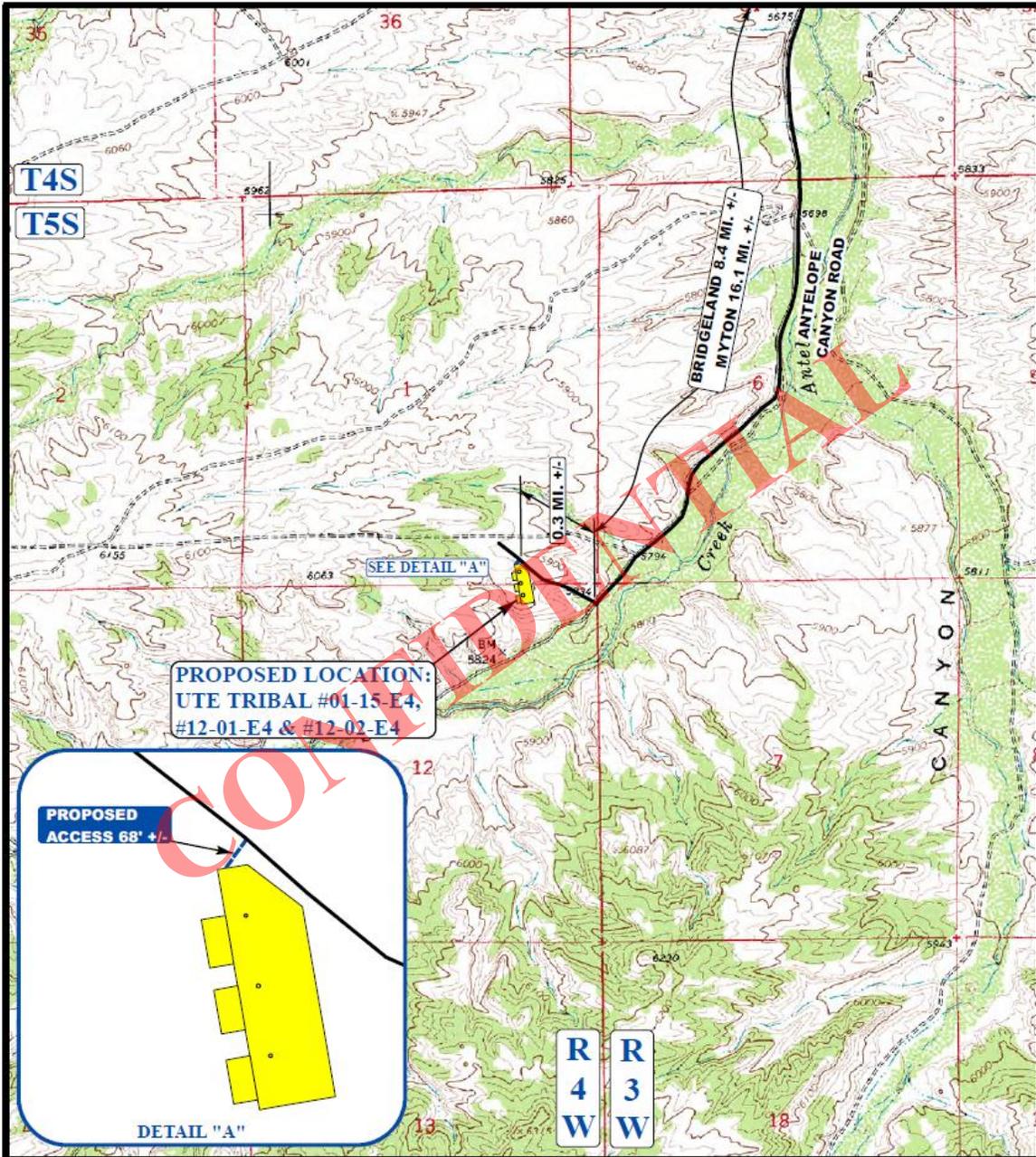
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE SURVEY WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
 REGISTERED LAND SURVEYOR
 REGISTRY NO. 16135
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 07-08-13	DATE DRAWN: 07-09-13
PARTY G.M. C.H. K.O.	REFERENCES G.L.O. FLAT	
WEATHER HOT	FILE PETROGLYPH OPERATING CO., INC.	

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°03'59.08" (40.066411)	LATITUDE = 40°04'00.73" (40.068258)
LONGITUDE = 110°16'38.48" (110.277356)	LONGITUDE = 110°16'45.40" (110.279278)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°03'59.22" (40.066450)	LATITUDE = 40°04'00.87" (40.068297)
LONGITUDE = 110°16'35.92" (110.276644)	LONGITUDE = 110°16'42.85" (110.278569)



————— EXISTING ROADS
 - - - - - PROPOSED ACCESS ROAD



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #01-15-E4, #12-01-E4 & #12-02-E4
 SE 1/4 SE 1/4, SECTION 1, T5S, R4W, U.S.B.&M. &
 NE 1/4 NE 1/4, SECTION 12, T5S, R4W, U.S.B.&M.

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

ACCESS ROAD MAP
 07 16 13
 MONTH DAY YEAR
 SCALE: 1"=2000' DRAWN BY: A.T. REVISED: 00-00-00 **B TOPO**

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

August 21, 2013

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

Re: Directional Drilling R649-3-11
Ute Tribal 12-01-E4

21' FSL & 1198' FEL, SE/SE, Sec. 1, (Surface Hole)
660' FNL & 660' FEL, NE/NE, Sec. 12, (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 August 21, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 17-02 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

Received: August 21, 2013

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 12-01-E4 Well, located in SE/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 #LPM4138153.

Date

Agent

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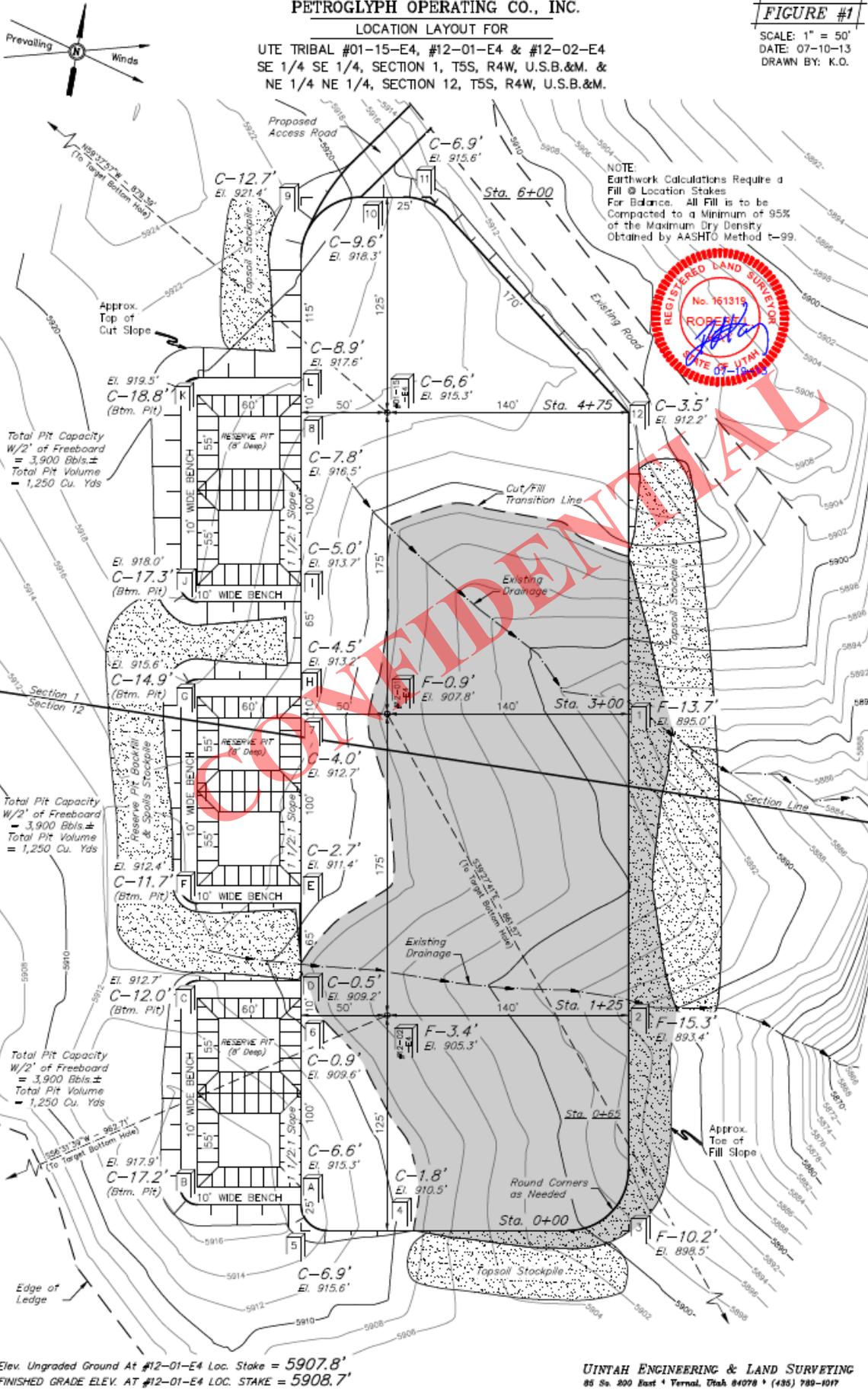
PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #01-15-E4, #12-01-E4 & #12-02-E4
 SE 1/4 SE 1/4, SECTION 1, T5S, R4W, U.S.B.&M. &
 NE 1/4 NE 1/4, SECTION 12, T5S, R4W, U.S.B.&M.

FIGURE #1

SCALE: 1" = 50'
 DATE: 07-10-13
 DRAWN BY: K.O.



NOTE:
 Earthwork Calculations Require a
 Fill @ Location Stakes
 For Balance. All Fill is to be
 Compacted to a Minimum of 95%
 of the Maximum Dry Density
 Obtained by AASHTO Method t-99.



DRAFT

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

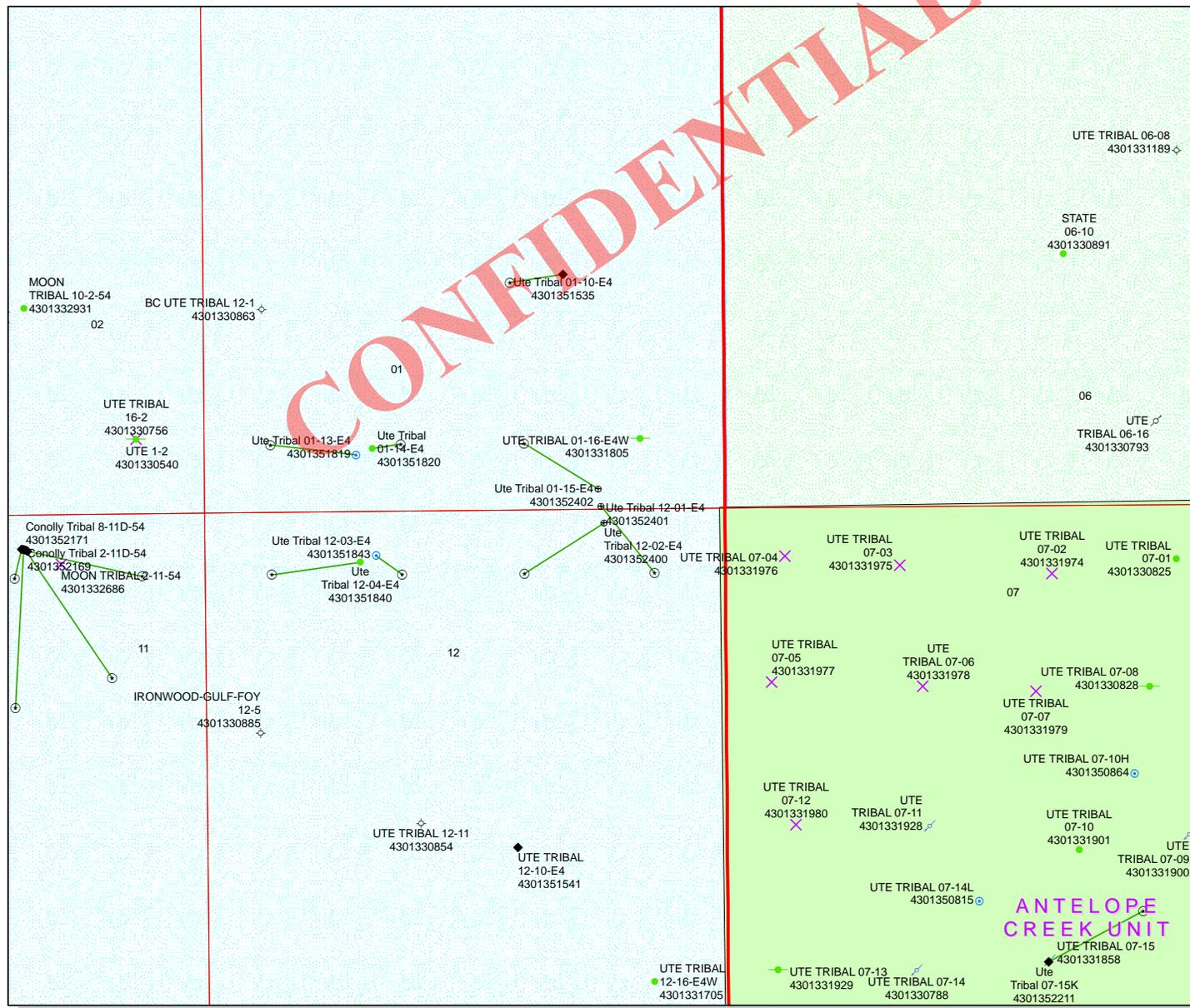
Total Pit Capacity
 W/2' of Freeboard
 = 3,900 Bbls ±
 Total Pit Volume
 = 1,250 Cu. Yds

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

Elev. Ungraded Ground At #12-01-E4 Loc. Stake = 5907.8'
 FINISHED GRADE ELEV. AT #12-01-E4 LOC. STAKE = 5908.7'

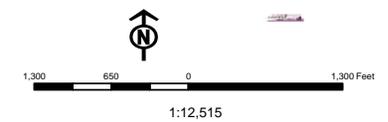
UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East • Ternal, Utah 84078 • (435) 789-1017

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API Number: 4301352401
Well Name: Ute Tribal 12-01-E4
Township T05.0S Range R04.0W Section 01
Meridian: UBM
Operator: PETROGLYPH OPERATING CO
Map Prepared:
Map Produced by Diana Mason

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



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 8/21/2013

API NO. ASSIGNED: 43013524010000

WELL NAME: Ute Tribal 12-01-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESE 01 050S 040W

Permit Tech Review:

SURFACE: 0021 FSL 1198 FEL

Engineering Review:

BOTTOM: 0660 FNL 0660 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.06834

LONGITUDE: -110.27950

UTM SURF EASTINGS: 561441.00

NORTHINGS: 4435591.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H624743

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

Received: August 27, 2013



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 12-01-E4
API Well Number: 43013524010000
Lease Number: 1420H624743
Surface Owner: INDIAN
Approval Date: 8/27/2013

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of 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.

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



Re: Sundry For API Well Number 43013524010000

Bradley Hill <bradhill@utah.gov>

Wed, Oct 23, 2013 at 4:50 PM

To: Diana Mason <dianawhitney@utah.gov>

I'll have to check with Dennis to see if we need surface owner info. If he has it we can probably go with this even though it is pretty skimpy. .

Brad Hill P.G.
O & G Permitting Manager/Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining
Phone: (801)538-5315
Fax: (801)359-3940
email: bradhill@utah.gov

On Wed, Oct 23, 2013 at 8:09 AM, Diana Mason <dianawhitney@utah.gov> wrote:

This is the sundry Ed sent in. Do you need more info.?

On Wed, Oct 23, 2013 at 7:54 AM, Bradley Hill <bradhill@utah.gov> wrote:

I think Dennis was going out to look at them Monday. I will attach an SOB to the Sundry when I approve them.

Brad Hill P.G.
O & G Permitting Manager/Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining
Phone: (801)538-5315
Fax: (801)359-3940
email: bradhill@utah.gov

On Wed, Oct 23, 2013 at 6:27 AM, Diana Mason <dianawhitney@utah.gov> wrote:

How should we proceed with these? These now need a presite.

----- Forwarded message -----

From: **Ed Trotter** <edtrotter@easilink.com>
Date: Tue, Oct 22, 2013 at 5:09 PM
Subject: RE: Sundry For API Well Number 43013524010000
To: dianawhitney@utah.gov

Diana,

The UT 01-15-E4, UT 12-01-E4 & UT 12-02-E4 are all on fee surface and should be changed. I apologize for the error.

Thank you,
Ed

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

From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]

Sent: Tuesday, October 22, 2013 4:13 PM

To: edtrotter@easilink.com

Cc: dianawhitney@utah.gov

Subject: Sundry For API Well Number 43013524010000

Notice of Intent: OTHER

API Number: 43013524010000

Operator: PETROGLYPH OPERATING CO

Ed,

When this APD was sent in, it was marked that it was Indian lease so it should be fee?

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2014.0.4158 / Virus Database: 3614/6771 - Release Date: 10/22/13

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: 1420H624743	
		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 12-01-E4	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		9. API NUMBER: 43013524010000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0021 FSL 1198 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 12/13/2013 <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 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 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 checked="" 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 file records for this well should be corrected to reflect that Petroglyph Operating Company, Inc. is the surface owner of this well.			
NAME (PLEASE PRINT) Ed Trotter	PHONE NUMBER 435 789-4120	TITLE Agent	
SIGNATURE N/A		DATE 10/21/2013	

Application for Permit to Drill

Statement of Basis

10/29/2013

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
8478	43-013-52401-00-00	FILED	OW	I	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD		
Well Name	Ute Tribal 12-01-E4		Unit		
Field	BRUNDAGE CANYON		Type of Work	DRILL	
Location	SESE 1 5S 4W U 21 FSL 1198 FEL GPS Coord (UTM) 561441E 4435591N				

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

10/29/2013
Date / Time

Surface Statement of Basis

Topography at this proposed wellsite slopes southeast and shows a nine feet of cut on the northwest corner and ten to fifteen feet of fill along the southeast corners. There are two dry drainages that collect water and drain toward Antelope Canyon but they both head up along the western side of the location and should be a non-issue after the pad is constructed. Three reserve pits are planned immediately off the west side of this pad and will accommodate each individual well as it is drilled. Each of these pits shall be fenced to keep wildlife from entering them, and shall be lined with a 16 mil synthetic liner to prevent seepage. The location shall also be bermed to prevent fluids and spills from leaving the wellsite into the canyon below.

A presite was scheduled and performed to permit three wells on the same well pad, the Ute Tribal 01-15-E4, The Ute Tribal 12-01-E4, and the Ute Tribal 12-02-E4. These are split estate wells and have private surface owned by Petroglyph Operating Company, INC. Tribal Mineral interests were represented at the onsite by the BLM.

Dennis Ingram
Onsite Evaluator

10/21/2013
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	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pits shall be fenced to prevent wildlife and or stock from entering same.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
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 12-01-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013524010000
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: 0021 FSL 1198 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 5/13/2014	<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 checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Please see attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 May 22, 2014**

Date: _____

By: Dr. K. Quist

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 5/7/2014	

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.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 21' FSL, 1198' FEL		8. WELL NAME and NUMBER: Ute Tribal 12-01-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 4W U		9. API NUMBER: 4301352401
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
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: 5/13/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

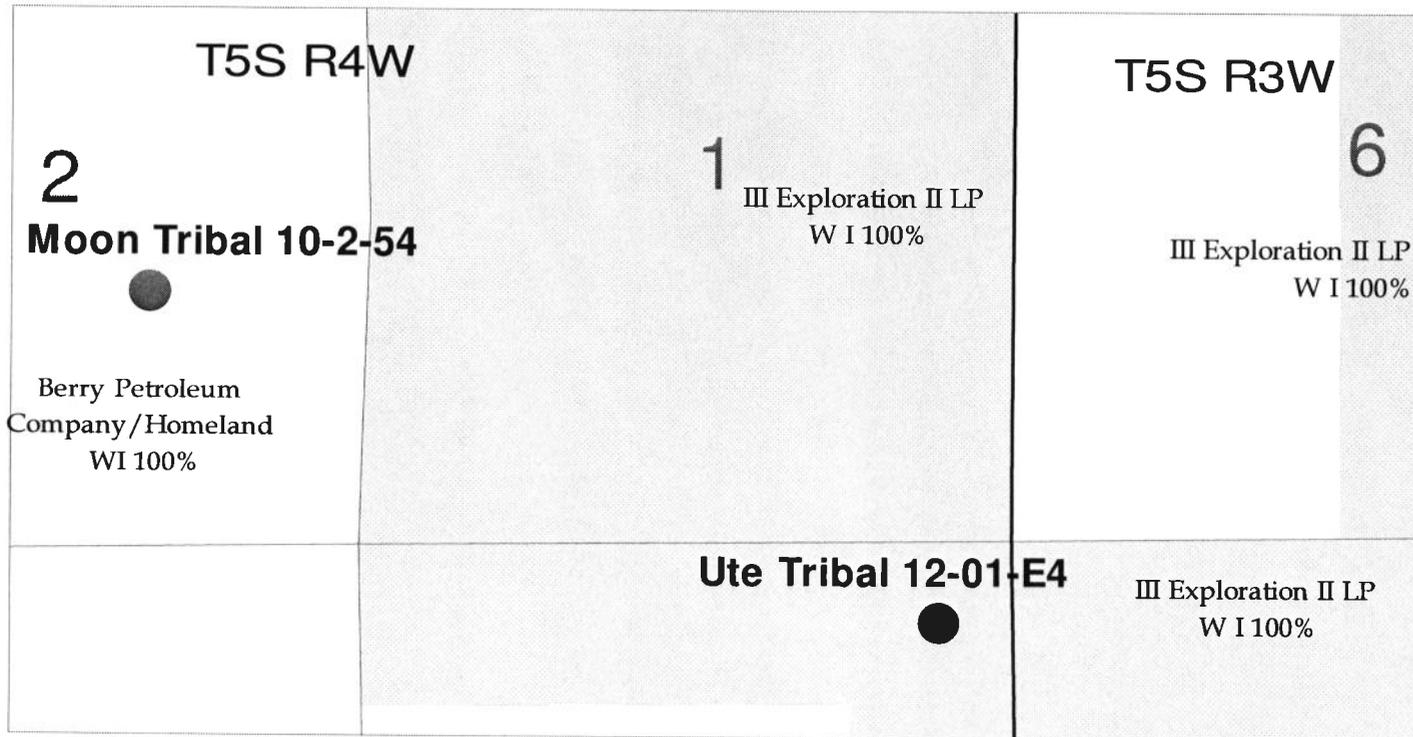
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 5/13/2014, depending on equipment availability, Petroglyph Operating intends to perforate the following: 4267-84, 4578-86, 4717-28, 4732-34, 4778-86, 5093-5104, 5142-44, 5176-79, 5204-07, 5221-24, 5233-37, 5252-54, 5355-58, 5368-70, 5400-02, 5419-23, 5447-49, 5471-90, 5629-34, 5676-80, 5756-60, 5770-73, 5797-99, 5876-80, 5901-03, 5919-21, 5931-33, 5942-46, 5961-63, 5967-69, 5983-85, 5999-6001, 6029-31, 6202-07, 6468-71, 6511-16, 6565-72, 6577-82, 6586-92, 6698-6701, 6721-23, 6742-46, 6754-58. All perforations will be made using Titan 3-1/8" Perf Guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. Using Halliburton 8K Composite Plugs for isolation we intent to fracture treat the following intervals:

6698-6758: 19,600 Gal of fluid containing 35,000#'s of sand,
 6202-6592: 42,000 Gal of fluid containing 75,000#'s of sand, 5876-6031: 33,600 Gal of fluid containing 60,000#'s of sand,
 5629-5799: 22,400 Gal of fluid containing 40,000#'s of sand, 5355-5490: 33,600 Gal of fluid containing 60,000#'s of sand,
 5093-5254: 33,600 Gal of fluid containing 60,000#'s of sand, 4717-4786: 30,800 Gal of fluid containing 55,000#'s of sand,
 4578-4586: 19,600 Gal of fluid containing 35,000#'s of sand & 4267-4284: 22,400 Gal of fluid containing 40,000#'s of sand.
 Fluid used will be 15-18# gelled fluid and sand will be 20/40 Mesh Sand. All plugs will drilled out and cleaned out. The well will be swabbed back as needed before being put to pump. Fluid Volumes and amounts of sand are only estimates and will be adjusted as needed during the completion process. Actual figures will be reported at a later date.

NAME (PLEASE PRINT) Rodrigo Jurado	TITLE Regulatory Compliance Specialist
SIGNATURE	DATE 5/7/2014

(This space for State use only)



1 inch = 1500 feet



	ANTELOPE CREEK
	DUCHESNE COUNTY, UTAH
Application for Commingling Ute Tribal 12-01-E4	
<small>Created By & Date</small> JG 7-May-14	<small>Petroglyph Commingling Co. 110 Broadway Ave. Suite 500 Boise, ID 83701</small> <small>*PBI-DEC/Utah Region of commingling 12-01-E4.gps</small>

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: 1420H624743
		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 12-01-E4
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		9. API NUMBER: 43013524010000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0021 FSL 1198 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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 type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/28/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 5/28/2014.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
June 03, 2014

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 6/2/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
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1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Ute Tribal 12-01-E4
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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: 0021 FSL 1198 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 5/28/2014 <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"/>

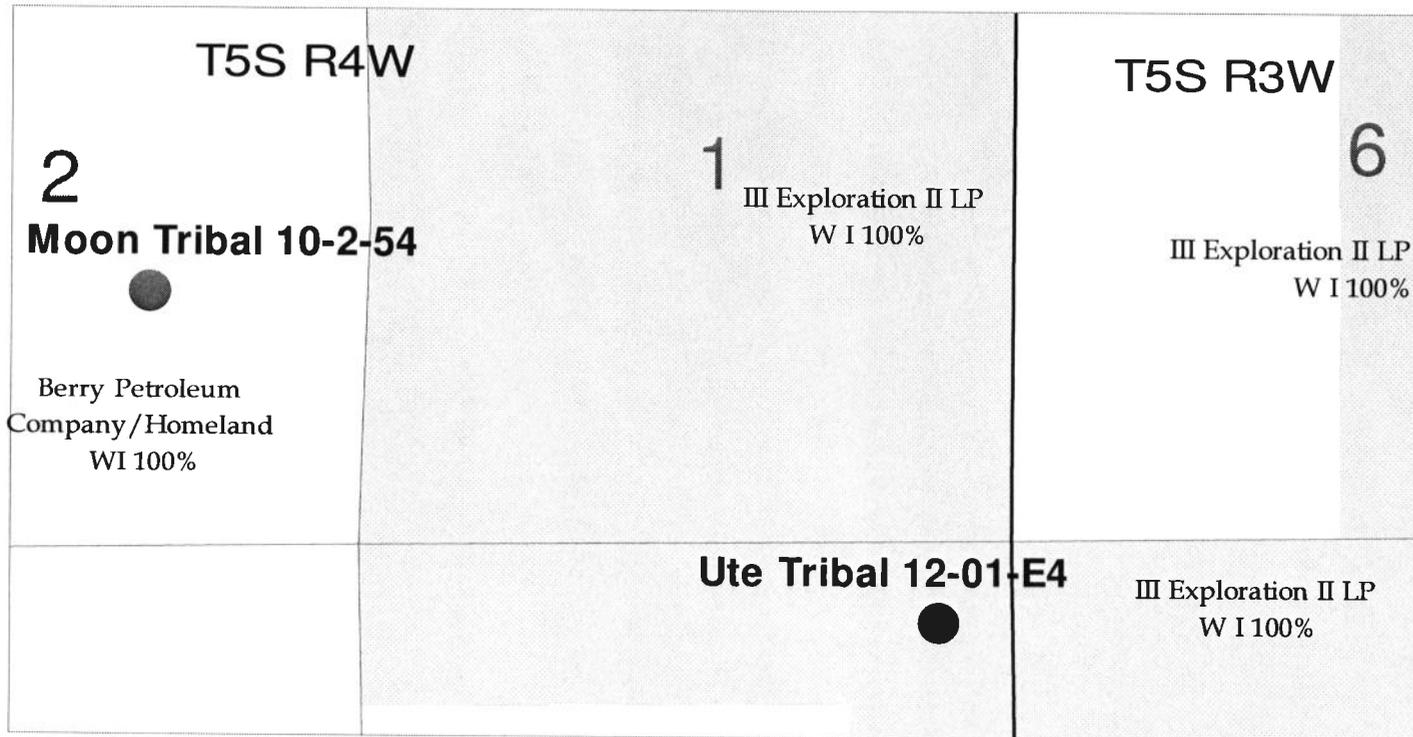
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Petroglyph Operating Inc. request permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with Utah's Oil, Gas, and Mining Regulation R649-3-22. Please see attached Affidavit of Notice and Map.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 June 05, 2014**

Date: _____
 By: Derek Quist

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 6/2/2014	



1 inch = 1500 feet



	ANTELOPE CREEK
	DUCHESNE COUNTY, UTAH
Application for Commingling Ute Tribal 12-01-E4	
<small>Created By & Date</small> JG 7-May-14	<small>Petroglyph Commingling Co. 110 Broadway Ave. Suite 500 Boise, ID 83701</small> <small>*PBI-DEC/Utah Region of commingling 12-01-E4.gps</small>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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		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 12-01-E4	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		9. API NUMBER: 43013524010000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0021 FSL 1198 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 5/30/2014 <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 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. <p style="text-align: center;">Please see attached.</p>			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 01, 2014			
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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		8. WELL NAME and NUMBER: Ute Tribal 12-01-E4
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		9. API NUMBER: 4301352401
4. LOCATION OF WELL FOOTAGES AT SURFACE: 21' FSL, 1198' FEL COUNTY: Duchesne QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 4W U STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 5/30/2014	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 4/30/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 670'. On 5/7/2014 we then perforated the following: 6754-58, 6742-46, 6721-23, 6698-6701, 6586-92, 6577-82, 6565-72, 6511-16, 6202-07, 6027-29, 5999-6001, 5983-85, 5967-69, 5961-63, 5942-46, 5931-33, 5919-21, 5901-03, 5876-80, 5797-99, 5770-73, 5756-60, 5676-80, 5629-34, 5471-90, 5447-49, 5419-23, 5400-02, 5368-70, 5355-58, 5252-54, 5233-37, 5221-24, 5204-07, 5176-79, 5142-44, 5093-5104, 4821-26, 4732-34, 4717-28, 4578-86 & 4267-84. We isolated and fracture treated the following intervals:
 6,698'-6,758': 629 Bbls of fluid containing 3,300#'s of sand, (Scour treatment @ .25-.5 # Sand per Gal)
 6,202'-6,758': 954 Bbls of fluid containing 86,900#'s of sand,
 5,876'-6,029': 722 Bbls of fluid containing 60,200#'s of sand,
 5,629'-5,799': 545 Bbls of fluid containing 41,000#'s of sand,
 5,355'-5,490': 691 Bbls of fluid containing 61,600#'s of sand,
 5,093'-5,254': 700 Bbls of fluid containing 61,400#'s of sand,
 4,717'-4,826': 660 Bbls of fluid containing 56,300#'s of sand,
 4,578'-4,586': 515 Bbls of fluid containing 36,200#'s of sand, 4,267'-4,284': 598 Bbls of fluid containing 40,700#'s of sand.
 Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Delta 140 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBSD, 7,520'. The well was swabbed until a good oil cut was see, then ran a pump on 5/30/2014 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE	DATE <u>10/1/2014</u>

(This space for State use only)

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4744
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 12-01-E4
PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301352401
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 21' FSL, 1198' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 530' FNL, 724' FEL NENE Sec. 12 T5S R4W AT TOTAL DEPTH: 640' FNL, 667' FEL NENE Sec. 12 T5S R4W		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 3W U
		12. COUNTY: Duchesne
		13. STATE: UTAH

14. DATE SPUNDED: 2/26/2014	15. DATE T.D. REACHED: 4/8/2014	16. DATE COMPLETED: 5/30/2014	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5,922' RKB
18. TOTAL DEPTH: MD 7,690 TVD 7,600	19. PLUG BACK T.D.: MD 7,520 TVD 7,430	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, Borehole Volume Plot, Cement Bond Log

23.
 WAS WELL CORED? NO YES (Submit analysis)
 WAS DST RUN? NO YES (Submit report)
 DIRECTIONAL SURVEY? NO YES (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73					Conductor
12.25	8.625 J-55	24	0	513		G 350	72	0	
7.875	5.5 J-55	15.5	0	6,183					
7.875	5.5 L-80	17	6,183	7,673		G 1,388	357	670'	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	6,790							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	6,202	6,758	6,112	6,668	6,202 6,758	0.42	164	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Basal Carbonate	5,876	6,029	5,786	5,939	5,876 6,029	0.42	96	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Green River	4,267	5,799	4,181	5,709	4,267 5,799	0.42	440	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,202'-6,758'	1,583 Bbls of Delta 140 18# Gelled Fluid Containing 90,200#'s of 20/40 Mesh Sand.
5,876'-6,029'	722 Bbls of Delta 140 18# Gelled Fluid Containing 60,200#'s of 20/40 Mesh Sand.
4,267'-5,799'	3,709 Bbls of Delta 140 18# Gelled Fluid Conataining 297,200#'s of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/28/2014		TEST DATE: 6/28/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 72	GAS – MCF: 19	WATER – BBL: 70	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 260	CSG. PRESS. 250	API GRAVITY 41.60	BTU – GAS 1	GAS/OIL RATIO 264	24 HR PRODUCTION RATES: →	OIL – BBL: 72	GAS – MCF: 19	WATER – BBL: 70	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	2,714
				Garden Gulch	3,464
				B Marker	3,880
				X Marker	4,380
				Y Marker	4,414
				Douglas Creek	4,523
				B Lime	4,925
				Castle Peak	5,457
				Basal Carbonate	5,872
				Wasatch	6,148

35. ADDITIONAL REMARKS (Include plugging procedure)

Top of Producing Interval lies in Sec. 12, Lease# 14-20-H62-4744.

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

Phone: 801-538-5340
 Fax: 801-359-3940



Job Number: UT141414
 Company: Petroglyph
 Lease/Well: Ute Tribal_12-01-E4
 Location: Sec. 12, T5S, R4W
 Rig Name: Capstar 334
 RKB: 5,922.0
 G.L. or M.S.L.: GL_5,909.0

State/Country: UT/USA
 Declination: 11.05
 Grid: TRUE
 File name: C:\WINSERVE\UT141414.SVY
 Date/Time: 08-Apr-14 / 03:47
 Curve Name: Ute Tribal_12-01-E4_Actual

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 140.50
 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
564.00	.10	146.90	564.00	-.41	.27	.49	.49	146.90	.02
656.00	1.20	181.47	655.99	-1.44	.29	1.30	1.47	168.71	1.22
749.00	1.60	147.80	748.97	-3.51	.95	3.32	3.64	164.80	.96
871.00	3.20	136.40	870.86	-7.42	4.21	8.41	8.53	150.43	1.36
962.00	3.47	143.81	961.70	-11.48	7.59	13.69	13.76	146.54	.56
1053.00	3.92	147.21	1052.51	-16.32	10.90	19.53	19.63	146.27	.55
1145.00	4.53	143.55	1144.26	-21.89	14.76	26.28	26.40	146.00	.72
1236.00	5.80	141.70	1234.89	-28.39	19.75	34.46	34.58	145.18	1.41
1327.00	7.70	142.70	1325.26	-36.85	26.29	45.15	45.26	144.49	2.09
1419.00	8.30	143.90	1416.36	-47.11	33.94	57.94	58.06	144.23	.68
1510.00	10.30	145.60	1506.16	-59.14	42.41	72.60	72.77	144.36	2.22
1601.00	10.60	143.70	1595.65	-72.59	51.96	89.06	89.27	144.41	.50

Sundry Number: 57348 API Well Number: 43013524010000

Sundry Number : 57348 API Well Number : 43013524010000

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	
1693.00	11.60	138.20	1685.93	-86.31	63.13	106.75	106.93	143.82	1.58
1784.00	11.70	134.20	1775.06	-99.56	75.84	125.07	125.16	142.70	.89
1875.00	13.10	134.20	1863.93	-113.19	89.85	144.49	144.51	141.56	1.54
1966.00	15.00	137.40	1952.21	-129.04	105.22	166.50	166.50	140.81	2.25
2058.00	15.10	134.30	2041.05	-146.18	121.85	190.30	190.31	140.19	.88
2149.00	16.30	138.70	2128.66	-164.05	138.77	214.85	214.87	139.77	1.86
2240.00	16.10	135.90	2216.05	-182.71	155.98	240.20	240.23	139.51	.89
2331.00	15.40	134.60	2303.63	-200.25	173.36	264.79	264.87	139.12	.86
2423.00	15.00	140.10	2392.42	-217.96	189.70	288.85	288.95	138.97	1.63
2514.00	16.00	141.60	2480.11	-236.83	205.04	313.16	313.26	139.11	1.18
2605.00	17.30	140.30	2567.29	-257.07	221.48	339.24	339.32	139.25	1.49
2697.00	17.30	139.00	2655.13	-277.92	239.19	366.59	366.67	139.28	.42
2788.00	18.50	136.70	2741.72	-298.64	257.97	394.52	394.63	139.18	1.53
2879.00	16.86	135.85	2828.42	-318.61	277.06	422.08	422.23	138.99	1.82
2971.00	15.51	136.03	2916.77	-337.04	294.90	447.65	447.84	138.82	1.47
3062.00	15.21	136.16	3004.52	-354.41	311.61	471.68	471.92	138.68	.33
3153.00	15.60	138.97	3092.25	-372.25	327.91	495.81	496.08	138.62	.93
3244.00	14.11	141.96	3180.21	-390.22	342.78	519.14	519.39	138.70	1.84
3336.00	14.19	140.73	3269.42	-407.78	356.83	541.62	541.86	138.81	.34
3427.00	13.23	141.57	3357.83	-424.57	370.36	563.19	563.41	138.90	1.08
3518.00	12.80	141.44	3446.49	-440.61	383.12	583.68	583.88	138.99	.47
3610.00	12.30	144.00	3536.29	-456.51	395.23	603.65	603.83	139.11	.81
3701.00	12.66	140.78	3625.14	-472.07	407.23	623.30	623.45	139.22	.86
3792.00	12.80	141.30	3713.91	-487.67	419.84	643.35	643.49	139.27	.20
3884.00	12.20	138.40	3803.73	-502.89	432.67	663.25	663.40	139.29	.94
3975.00	11.50	137.40	3892.79	-516.76	445.19	681.92	682.08	139.25	.80
4067.00	10.00	141.80	3983.17	-529.79	456.34	699.06	699.23	139.26	1.86
4158.00	8.70	141.40	4072.96	-541.38	465.52	713.85	714.00	139.31	1.43
4249.00	7.00	138.00	4163.10	-550.88	473.52	726.27	726.42	139.32	1.94
4341.00	6.30	145.70	4254.49	-559.21	480.12	736.90	737.04	139.35	1.23
4432.00	6.20	145.90	4344.94	-567.41	485.69	746.76	746.89	139.44	.11
4523.00	6.30	142.90	4435.40	-575.46	491.46	756.64	756.76	139.50	.38
4614.00	5.60	141.00	4525.91	-582.89	497.26	766.07	766.18	139.53	.80
4705.00	4.70	144.50	4616.55	-589.38	502.22	774.23	774.33	139.56	1.05

Sundry Number : 57348 API Well Number: 43013524010000

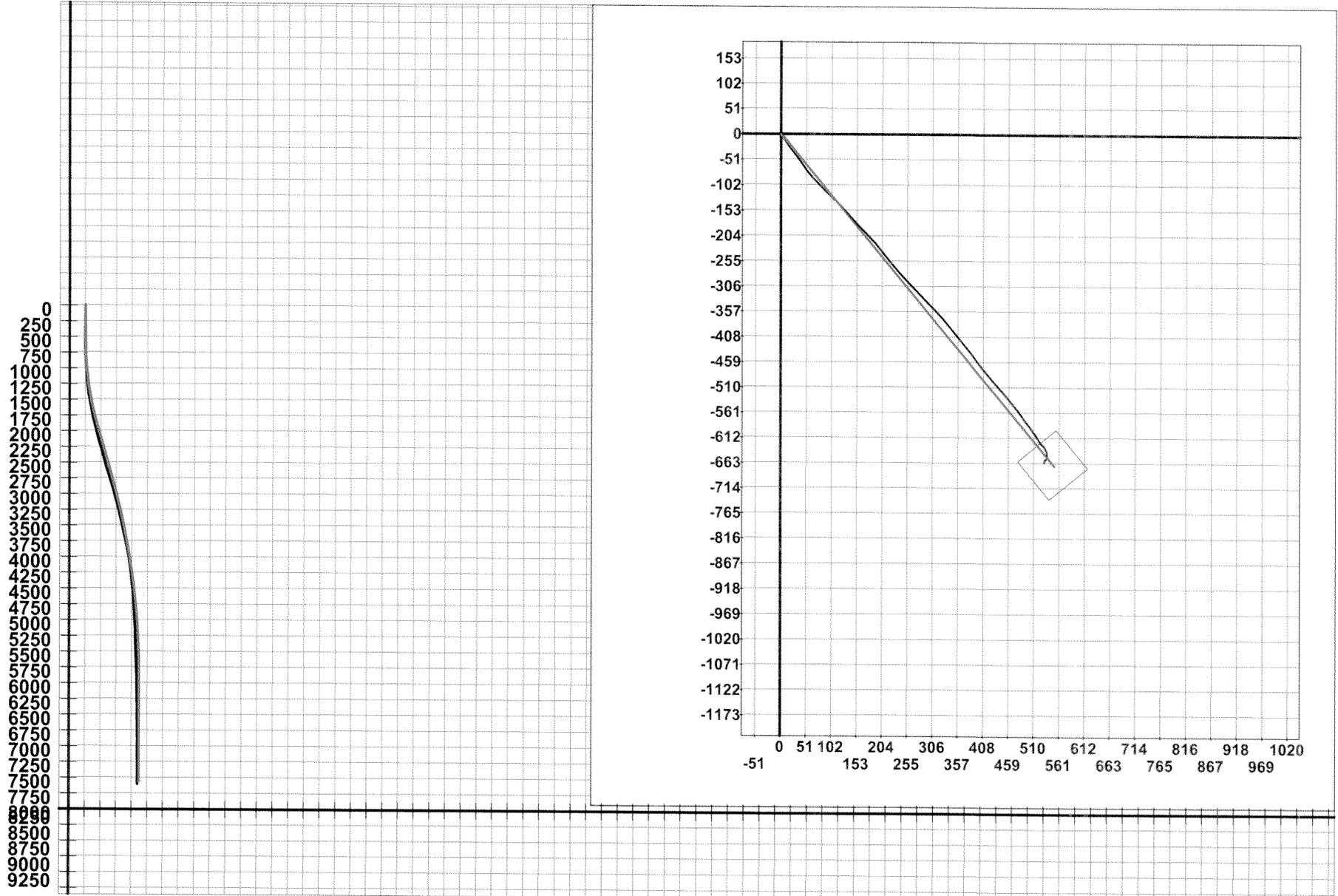
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4797.00	3.90	146.40	4708.29	-595.05	506.14	781.10	781.19	139.62	.88
4888.00	3.20	144.70	4799.11	-599.70	509.32	786.71	786.80	139.66	.78
4979.00	3.25	140.64	4889.97	-603.77	512.42	791.82	791.91	139.68	.26
5070.00	2.59	147.10	4980.85	-607.49	515.18	796.45	796.52	139.70	.81
5162.00	2.55	143.55	5072.76	-610.88	517.52	800.56	800.63	139.73	.18
5253.00	2.07	152.86	5163.68	-613.97	519.48	804.18	804.25	139.77	.67
5344.00	1.80	161.56	5254.63	-616.79	520.68	807.12	807.18	139.83	.44
5435.00	2.07	145.39	5345.58	-619.50	522.06	810.09	810.14	139.88	.67
5527.00	2.55	131.64	5437.50	-622.23	524.54	813.77	813.82	139.87	.79
5618.00	2.50	133.92	5528.42	-624.95	527.48	817.74	817.80	139.83	.12
5709.00	2.20	140.64	5619.34	-627.67	530.02	821.46	821.52	139.82	.45
5800.00	2.02	149.61	5710.28	-630.41	531.93	824.79	824.84	139.84	.41
5892.00	1.71	156.38	5802.23	-633.06	533.30	827.71	827.76	139.89	.41
5983.00	1.36	136.56	5893.20	-635.09	534.59	830.10	830.14	139.91	.69
6075.00	1.23	149.23	5985.17	-636.73	535.85	832.16	832.20	139.92	.34
6166.00	1.10	163.50	6076.16	-638.41	536.60	833.93	833.97	139.95	.35
6258.00	.88	169.50	6168.14	-639.95	536.97	835.36	835.39	140.00	.26
6349.00	1.20	187.20	6259.13	-641.58	536.98	836.63	836.65	140.07	.49
6440.00	1.10	188.20	6350.11	-643.39	536.74	837.87	837.88	140.16	.11
6532.00	1.20	182.40	6442.09	-645.23	536.57	839.18	839.19	140.25	.17
6623.00	1.30	183.60	6533.07	-647.21	536.47	840.64	840.64	140.35	.11
6715.00	1.30	183.10	6625.04	-649.30	536.35	842.17	842.17	140.44	.01
6806.00	1.30	193.90	6716.02	-651.33	536.04	843.55	843.55	140.55	.27
6897.00	1.30	185.40	6807.00	-653.36	535.70	844.89	844.90	140.65	.21
6988.00	.44	231.74	6897.99	-654.60	535.33	845.62	845.62	140.72	1.15
7079.00	.53	288.49	6988.98	-654.69	534.65	845.25	845.26	140.76	.51
7171.00	.75	219.95	7080.98	-655.01	533.86	845.00	845.01	140.82	.81
7262.00	.66	205.24	7171.97	-655.94	533.26	845.33	845.35	140.89	.22
7353.00	.75	203.53	7262.97	-656.96	532.79	845.83	845.86	140.96	.10
7445.00	.62	202.48	7354.96	-657.98	532.36	846.34	846.37	141.02	.14
7536.00	.70	198.21	7445.95	-658.96	532.00	846.86	846.91	141.08	.10
7627.00	.70	205.64	7536.95	-659.99	531.59	847.39	847.45	141.15	.10
TD Projection to Bit									
7690.00	.70	205.64	7599.94	-660.68	531.25	847.72	847.78	141.20	.00

Job Number: UT141414
 Company: Petroglyph
 Lease/Well: Ute Tribal 12-01-E4
 Location: Sec. 12, T5S, R4W
 Rig Name: Capstar 334
 State/Country: Ut/USA

Declination: 11.05



Sundry Number: 57348 API Well Number: 43013524010000



0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9250
 -250 250 500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000 5250 5500 5750 6000 6250 6500 6750 7000 7250 7500 7750 8000 8250 8500 8750 9000 9250

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 12-01-E4

API number: 4301352401

Well Location: QQ SESE 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 3/14/2014