API Well Number: 43013526350000

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 19-09H

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

3. FIELD OR WILDCAT
ANTELOPE CREEK

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

5. UNIT or COMMUNITIZATION AGREEMENT NAME
ANTELOPE CREEK

6. NAME OF OPERATOR
PETROGLYPH OPERATING CO

7. OPERATOR PHONE
208 685-7685

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)
1420H623514

11. MINERAL OWNERSHIP
FEDERAL ☐ INDIAN ■ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ☐ INDIAN ■ STATE ☐ FEE ☐

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

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

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

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

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

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

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2081 FSL 586 FEL	NESE	19	5.0 S	3.0 W	U
Top of Uppermost Producing Zone	2529 FSL 1429 FEL	NWSE	19	5.0 S	3.0 W	U
At Total Depth	2529 FSL 1429 FEL	NWSE	19	5.0 S	3.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
586

23. NUMBER OF ACRES IN DRILLING UNIT
640

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
859

26. PROPOSED DEPTH
MD: 6433 TVD: 6313

27. ELEVATION - GROUND LEVEL
6500

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 - 6433	15.5	J-55 LT&C	10.0	Class G	492	1.92	12.5
							Class G	346	1.46	13.4

ATTACHMENTS

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

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

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

SIGNATURE | **DATE** 10/31/2013 | **EMAIL** edtrotter@easilink.com

API NUMBER ASSIGNED
43013526350000

APPROVAL
Permit Manager

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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 19-09H
NE SE, SEC 19, T5S, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		**6513**	**0**	**0**
Surface Formation = **Uinta**				
Uinta		**6500**	**13**	**13**
Green River		**4974**	**1539**	**1546**
Trona		3667	2846	2907
Mahogany Shale		3520	2993	3061
"B" Marker	**Waterflood Unit Interval**	2435	4078	4190
"X" Marker		1949	4564	4682
Douglas Creek Marker		1812	4701	4820
"B" Limestone		1425	5088	5208
Base Castle Peak Limestone		862	5651	5771
BSCARB		442	6071	6191
Wasatch		**183**	**NDE**	**NDE**
Formation at TD: Green River	**Rig TD**	**200**	**6313**	**6433**

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

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	Uinta	6000	513	513
Oil/Gas	Douglas Creek	1812	4701	4820
Oil/Gas	Castle Peak	862	5651	5771

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah

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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 19-09H
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DUCHESNE COUNTY, UTAH

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	6433'	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 4190'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top / Bottom	Cement Description	Sacks / Vol (ft^3)	Excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	0 / 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 / 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 / 264	30%	15.8	1.17
Production Lead	0 / 4190	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	492 / 944	30%	12.5	1.92
Production Tail	4190 / 6433	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	346 / 505	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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NINE POINT DRILLING PLAN
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DUCHESNE COUNTY, UTAH

5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

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

BOPE TESTING PROCEDURE:

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

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 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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NINE POINT DRILLING PLAN
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DUCHESNE COUNTY, UTAH

B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 493' to 6433'. LSND mud if conditions warrant.

- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.

- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.

- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.

- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.

- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.

- A mud-gas separator shall be available on location. Operator does not plan on using a gas detector on the mud return due to the fact that any abnormal pressure is the result of offset water injection.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.

- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.

- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.

- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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7. EVALUATION PROGRAM:

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

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H_2S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1608 PSI (0.25 PSI/ft gradient).
- This well is in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient (2785 PSI).

9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 4190' to 6191', 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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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
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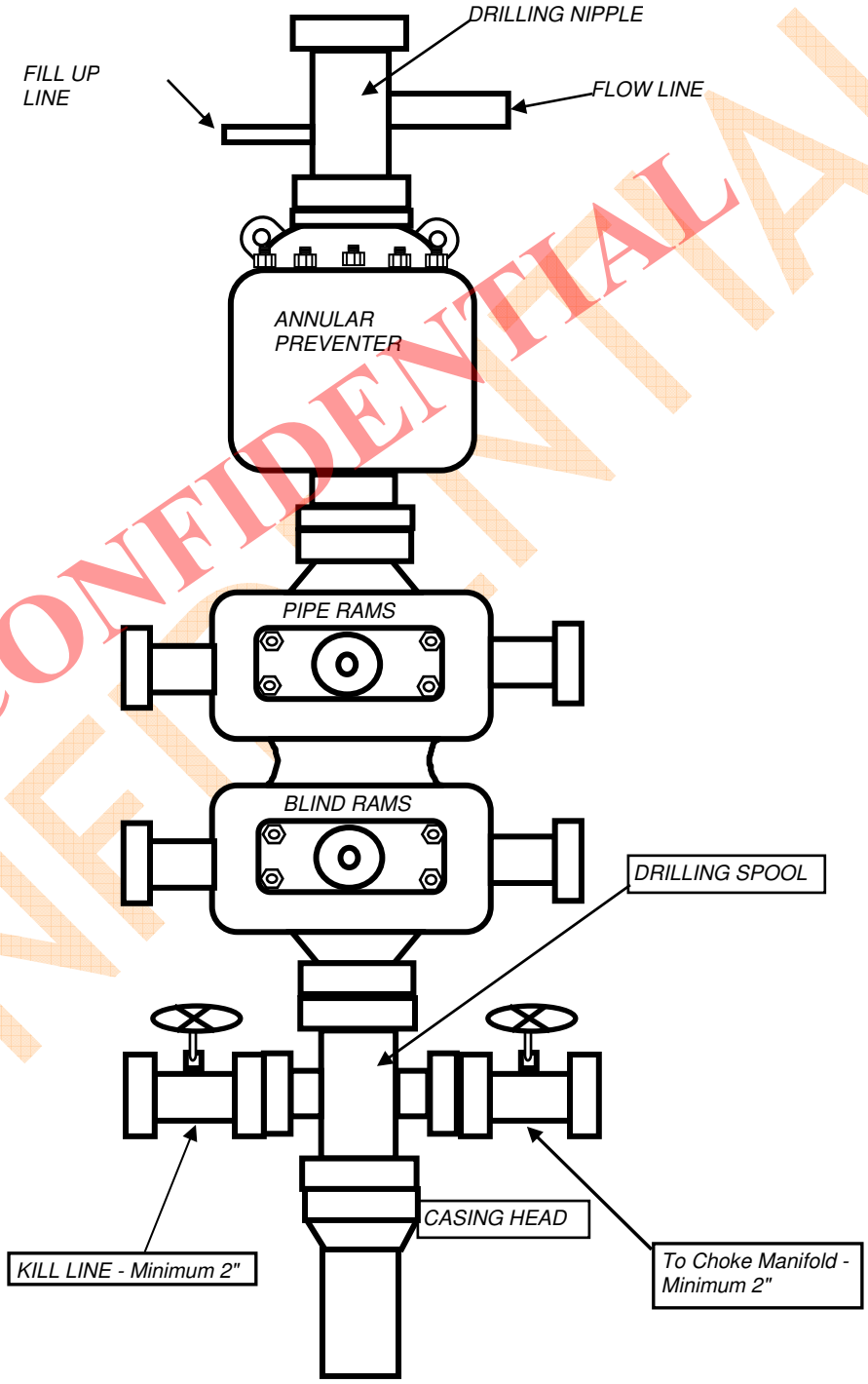
DUCHESNE COUNTY, UTAH

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



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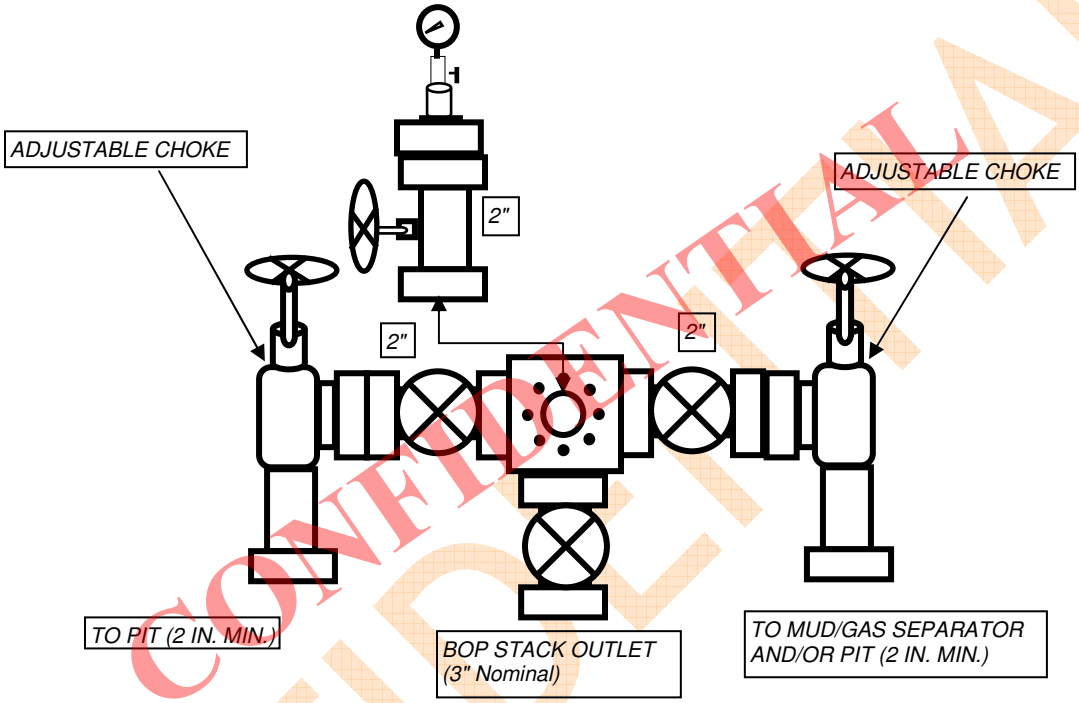
TYPICAL 2,000 p.s.i. CHOKE MANIFOLD



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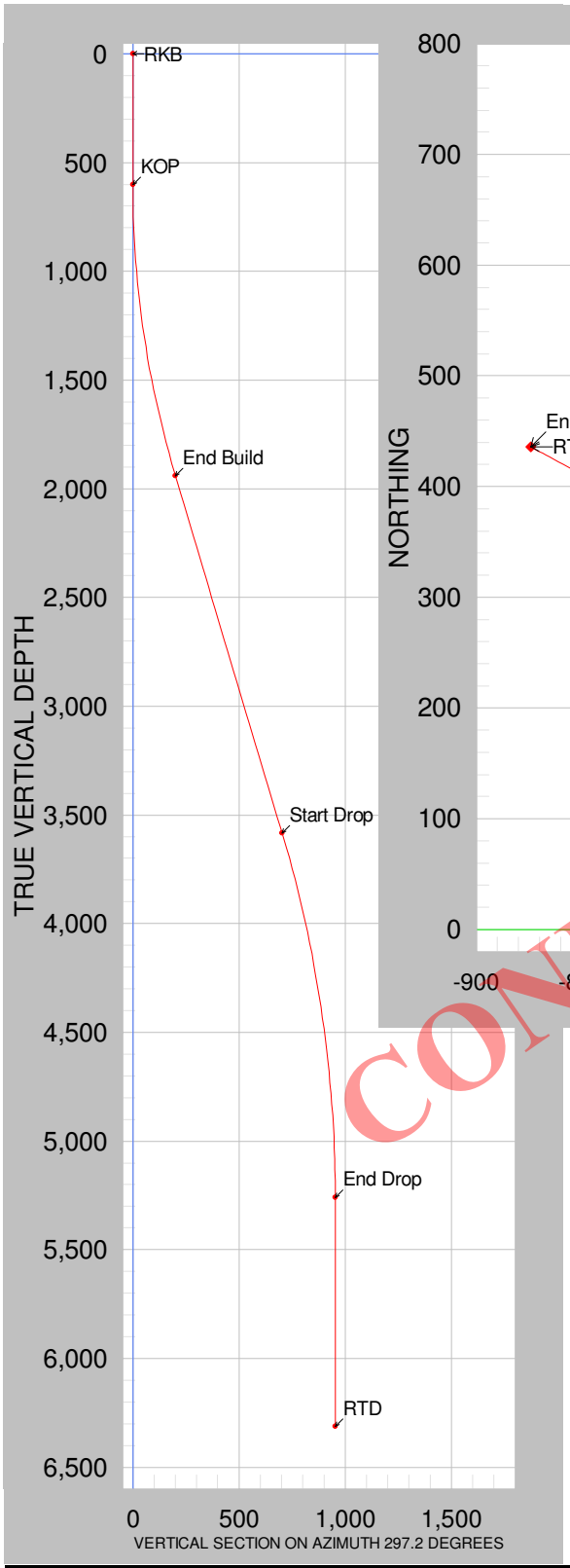
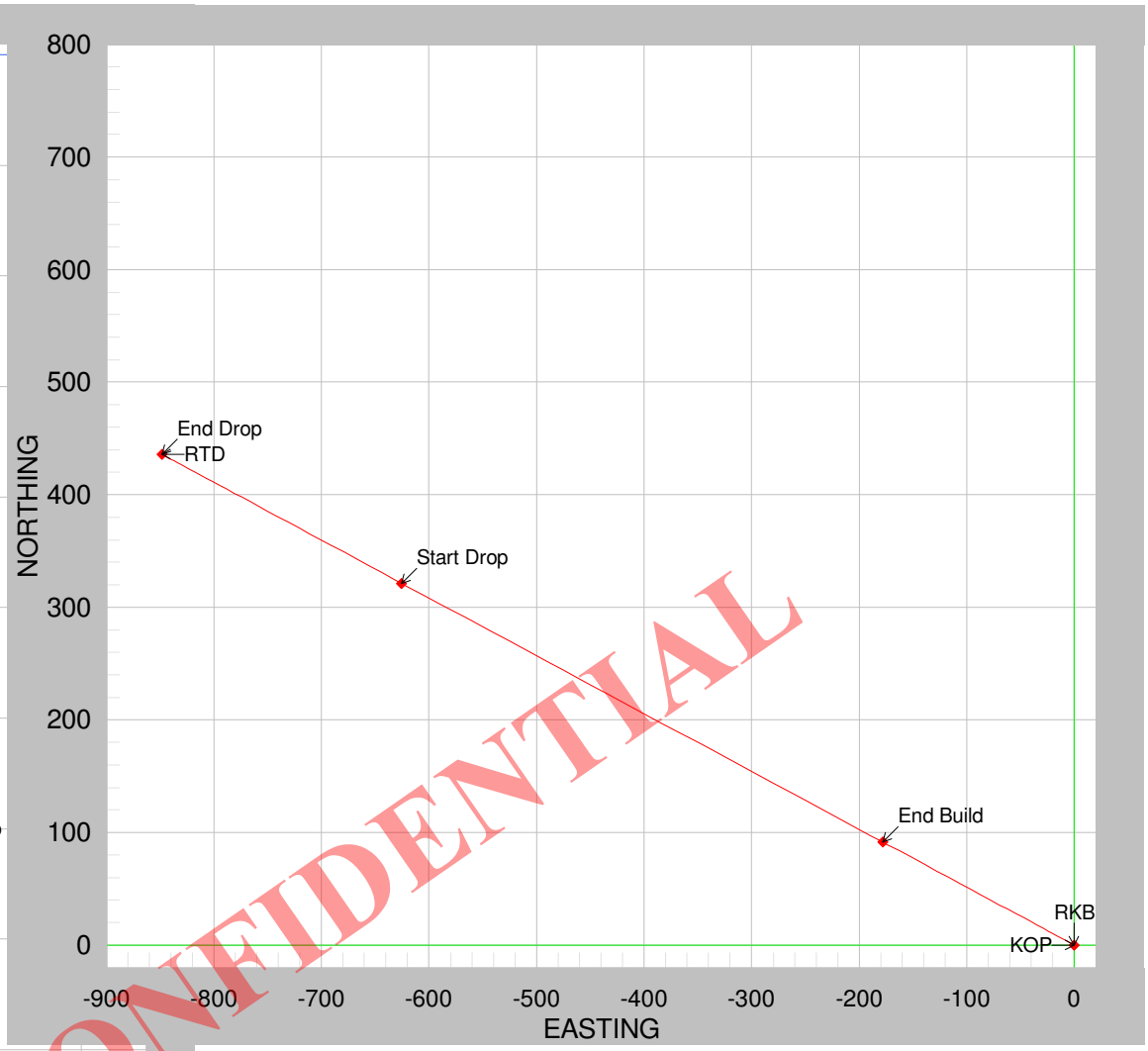
API Well Number: 43013526350000





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Ute Tribal 19-09H

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	1960.00	17.00	297.20	1940.13	91.55	-178.14	1.25	200.28
3	Start Drop	Tangent	3680.00	17.00	297.20	3584.98	321.41	-625.41	0.00	703.16
4	End Drop	Drop	5380.00	0.00	0.00	5260.14	435.85	-848.08	1.00	953.52
5	RTD	Vertical	6433.00	0.00	0.00	6313.14	435.85	-848.08	0.00	953.52

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19-09H, Plan 1

Operator		**Units**	feet, °/100ft	14:05 Monday, October 28, 2013	Page 1 of 4
Field		**County**	Duchesne	**Vertical Section Azimuth**	297.2
Well Name	19-09H	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 2081' FSL & 586' FEL BHL: 2529' FSL & 1429' FEL		**MapZone**	**Lat Long Ref**	
Site			**SurfaceX**	**Surface Long**	
Slot Name		**UWI**	**SurfaceY**	**Surface Lat**	
Well Number		**API**	**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	297.2	650.00	0.12	-0.24	1.25	0.27			
700.00	1.25	297.2	699.99	0.50	-0.97	1.25	1.09			
750.00	1.88	297.2	749.97	1.12	-2.18	1.25	2.45			
800.00	2.50	297.2	799.94	1.99	-3.88	1.25	4.36			
850.00	3.13	297.2	849.88	3.12	-6.06	1.25	6.82			
900.00	3.75	297.2	899.79	4.49	-8.73	1.25	9.81			
950.00	4.38	297.2	949.66	6.11	-11.88	1.25	13.36			
1000.00	5.00	297.2	999.49	7.97	-15.51	1.25	17.44			
1050.00	5.63	297.2	1049.28	10.09	-19.63	1.25	22.07			
1100.00	6.25	297.2	1099.01	12.45	-24.23	1.25	27.24			
1150.00	6.88	297.2	1148.68	15.07	-29.31	1.25	32.96			
1200.00	7.50	297.2	1198.29	17.92	-34.88	1.25	39.21			
1250.00	8.13	297.2	1247.82	21.03	-40.92	1.25	46.01			
1300.00	8.75	297.2	1297.28	24.38	-47.45	1.25	53.35			
1350.00	9.38	297.2	1346.66	27.98	-54.45	1.25	61.22			
1400.00	10.00	297.2	1395.94	31.83	-61.94	1.25	69.64			
1450.00	10.63	297.2	1445.14	35.92	-69.90	1.25	78.59			
1500.00	11.25	297.2	1494.23	40.26	-78.33	1.25	88.07			
1550.00	11.88	297.2	1543.21	44.84	-87.25	1.25	98.10			
1600.00	12.50	297.2	1592.09	49.66	-96.64	1.25	108.65			
1650.00	13.13	297.2	1640.84	54.73	-106.50	1.25	119.74			

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19-09H, Plan 1

Operator		**Units**	feet, °/100ft	14:05 Monday, October 28, 2013	Page 2 of 4
Field		**County**	Duchesne	**Vertical Section Azimuth**	297.2
Well Name	19-09H	**State**	UT	**Survey Calculation Method**	Minimum Curvature
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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	297.2	1689.47	60.04	-116.83	1.25	131.36			
1750.00	14.38	297.2	1737.97	65.60	-127.64	1.25	143.51			
1800.00	15.00	297.2	1786.34	71.39	-138.91	1.25	156.18			
1850.00	15.63	297.2	1834.56	77.43	-150.66	1.25	169.39			
1900.00	16.25	297.2	1882.64	83.70	-162.87	1.25	183.12			
1950.00	16.88	297.2	1930.57	90.22	-175.55	1.25	197.37			
*** END BUILD (at MD = 1960.00)										
1960.00	17.00	297.2	1940.13	91.55	-178.14	1.25	200.28			
2000.00	17.00	297.2	1978.39	96.90	-188.54	0.00	211.98			
2050.00	17.00	297.2	2026.20	103.58	-201.54	0.00	226.60			
2100.00	17.00	297.2	2074.02	110.26	-214.54	0.00	241.22			
2150.00	17.00	297.2	2121.83	116.94	-227.54	0.00	255.83			
2200.00	17.00	297.2	2169.65	123.62	-240.55	0.00	270.45			
2250.00	17.00	297.2	2217.46	130.31	-253.55	0.00	285.07			
2300.00	17.00	297.2	2265.28	136.99	-266.55	0.00	299.69			
2350.00	17.00	297.2	2313.09	143.67	-279.55	0.00	314.31			
2400.00	17.00	297.2	2360.91	150.35	-292.55	0.00	328.93			
2450.00	17.00	297.2	2408.72	157.03	-305.56	0.00	343.55			
2500.00	17.00	297.2	2456.54	163.72	-318.56	0.00	358.17			
2550.00	17.00	297.2	2504.35	170.40	-331.56	0.00	372.78			
2600.00	17.00	297.2	2552.17	177.08	-344.56	0.00	387.40			
2650.00	17.00	297.2	2599.98	183.76	-357.56	0.00	402.02			
2700.00	17.00	297.2	2647.80	190.45	-370.57	0.00	416.64			
2750.00	17.00	297.2	2695.61	197.13	-383.57	0.00	431.26			
2800.00	17.00	297.2	2743.43	203.81	-396.57	0.00	445.88			
2850.00	17.00	297.2	2791.24	210.49	-409.57	0.00	460.50			
2900.00	17.00	297.2	2839.06	217.17	-422.57	0.00	475.11			
2950.00	17.00	297.2	2886.87	223.86	-435.58	0.00	489.73			
3000.00	17.00	297.2	2934.69	230.54	-448.58	0.00	504.35			
3050.00	17.00	297.2	2982.51	237.22	-461.58	0.00	518.97			
3100.00	17.00	297.2	3030.32	243.90	-474.58	0.00	533.59			
3150.00	17.00	297.2	3078.14	250.58	-487.58	0.00	548.21			
3200.00	17.00	297.2	3125.95	257.27	-500.59	0.00	562.83			
3250.00	17.00	297.2	3173.77	263.95	-513.59	0.00	577.44			
3300.00	17.00	297.2	3221.58	270.63	-526.59	0.00	592.06			

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RECEIVED: October 31, 2013

19-09H, Plan 1

Operator		**Units**	feet, °/100ft	14:05 Monday, October 28, 2013	Page 3 of 4
Field		**County**	Duchesne	**Vertical Section Azimuth**	297.2
Well Name	19-09H	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 2081' FSL & 586' FEL BHL: 2529' FSL & 1429' FEL		**MapZone**	**Lat Long Ref**	
Site			**SurfaceX**	**Surface Long**	
Slot Name		**UWI**	**SurfaceY**	**Surface Lat**	
Well Number		**API**	**Z Datum**		
Project			**Surface Z**	**Ground Level**	

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
3350.00	17.00	297.2	3269.40	277.31	-539.59	0.00	606.68			
3400.00	17.00	297.2	3317.21	283.99	-552.59	0.00	621.30			
3450.00	17.00	297.2	3365.03	290.68	-565.60	0.00	635.92			
3500.00	17.00	297.2	3412.84	297.36	-578.60	0.00	650.54			
3550.00	17.00	297.2	3460.66	304.04	-591.60	0.00	665.16			
3600.00	17.00	297.2	3508.47	310.72	-604.60	0.00	679.77			
3650.00	17.00	297.2	3556.29	317.41	-617.60	0.00	694.39			
*** START DROP (at MD = 3680.00)										
3680.00	17.00	297.2	3584.98	321.41	-625.41	0.00	703.16			
3700.00	16.80	297.2	3604.11	324.07	-630.58	1.00	708.98			
3750.00	16.30	297.2	3652.04	330.58	-643.24	1.00	723.22			
3800.00	15.80	297.2	3700.09	336.90	-655.54	1.00	737.04			
3850.00	15.30	297.2	3748.26	343.03	-667.46	1.00	750.45			
3900.00	14.80	297.2	3796.55	348.96	-679.01	1.00	763.43			
3950.00	14.30	297.2	3844.94	354.70	-690.18	1.00	775.99			
4000.00	13.80	297.2	3893.45	360.25	-700.98	1.00	788.13			
4050.00	13.30	297.2	3942.06	365.61	-711.40	1.00	799.85			
4100.00	12.80	297.2	3990.76	370.77	-721.44	1.00	811.14			
4150.00	12.30	297.2	4039.57	375.73	-731.10	1.00	822.00			
4200.00	11.80	297.2	4088.47	380.51	-740.38	1.00	832.44			
4250.00	11.30	297.2	4137.46	385.08	-749.29	1.00	842.45			
4300.00	10.80	297.2	4186.53	389.46	-757.81	1.00	852.03			
4350.00	10.30	297.2	4235.68	393.65	-765.95	1.00	861.19			
4400.00	9.80	297.2	4284.92	397.64	-773.71	1.00	869.91			
4450.00	9.30	297.2	4334.22	401.43	-781.09	1.00	878.21			
4500.00	8.80	297.2	4383.60	405.02	-788.09	1.00	886.07			
4550.00	8.30	297.2	4433.04	408.42	-794.70	1.00	893.51			
4600.00	7.80	297.2	4482.55	411.62	-800.93	1.00	900.51			
4650.00	7.30	297.2	4532.12	414.62	-806.77	1.00	907.08			
4700.00	6.80	297.2	4581.74	417.43	-812.23	1.00	913.21			
4750.00	6.30	297.2	4631.41	420.04	-817.30	1.00	918.92			
4800.00	5.80	297.2	4681.13	422.44	-821.99	1.00	924.19			
4850.00	5.30	297.2	4730.90	424.65	-826.29	1.00	929.02			
4900.00	4.80	297.2	4780.71	426.67	-830.20	1.00	933.42			
4950.00	4.30	297.2	4830.55	428.48	-833.73	1.00	937.39			

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19-09H, Plan 1

Operator		**Units**	feet, °/100ft	14:05 Monday, October 28, 2013	Page 4 of 4
Field		**County**	Duchesne	**Vertical Section Azimuth**	297.2
Well Name	19-09H	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 2081' FSL & 586' FEL BHL: 2529' FSL & 1429' FEL		**MapZone**	**Lat Long Ref**	
Site			**SurfaceX**	**Surface Long**	
Slot Name		**UWI**	**SurfaceY**	**Surface Lat**	
Well Number		**API**	**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	3.80	297.2	4880.42	430.09	-836.87	1.00	940.92			
5050.00	3.30	297.2	4930.33	431.51	-839.63	1.00	944.02			
5100.00	2.80	297.2	4980.26	432.72	-841.99	1.00	946.68			
5150.00	2.30	297.2	5030.21	433.74	-843.97	1.00	948.90			
5200.00	1.80	297.2	5080.17	434.56	-845.56	1.00	950.69			
5250.00	1.30	297.2	5130.16	435.18	-846.76	1.00	952.04			
5300.00	0.80	297.2	5180.15	435.60	-847.58	1.00	952.96			
5350.00	0.30	297.2	5230.14	435.82	-848.01	1.00	953.44			
*** END DROP (at MD = 5380.00)										
5380.00	0.00	0.0	5260.14	435.85	-848.08	1.00	953.52			
5400.00	0.00	0.0	5280.14	435.85	-848.08	0.00	953.52			
5450.00	0.00	0.0	5330.14	435.85	-848.08	0.00	953.52			
5500.00	0.00	0.0	5380.14	435.85	-848.08	0.00	953.52			
5550.00	0.00	0.0	5430.14	435.85	-848.08	0.00	953.52			
5600.00	0.00	0.0	5480.14	435.85	-848.08	0.00	953.52			
5650.00	0.00	0.0	5530.14	435.85	-848.08	0.00	953.52			
5700.00	0.00	0.0	5580.14	435.85	-848.08	0.00	953.52			
5750.00	0.00	0.0	5630.14	435.85	-848.08	0.00	953.52			
5800.00	0.00	0.0	5680.14	435.85	-848.08	0.00	953.52			
5850.00	0.00	0.0	5730.14	435.85	-848.08	0.00	953.52			
5900.00	0.00	0.0	5780.14	435.85	-848.08	0.00	953.52			
5950.00	0.00	0.0	5830.14	435.85	-848.08	0.00	953.52			
6000.00	0.00	0.0	5880.14	435.85	-848.08	0.00	953.52			
6050.00	0.00	0.0	5930.14	435.85	-848.08	0.00	953.52			
6100.00	0.00	0.0	5980.14	435.85	-848.08	0.00	953.52			
6150.00	0.00	0.0	6030.14	435.85	-848.08	0.00	953.52			
6200.00	0.00	0.0	6080.14	435.85	-848.08	0.00	953.52			
6250.00	0.00	0.0	6130.14	435.85	-848.08	0.00	953.52			
6300.00	0.00	0.0	6180.14	435.85	-848.08	0.00	953.52			
6350.00	0.00	0.0	6230.14	435.85	-848.08	0.00	953.52			
6400.00	0.00	0.0	6280.14	435.85	-848.08	0.00	953.52			
*** RTD (at MD = 6433.00)										
6433.00	0.00	0.0	6313.14	435.85	-848.08	0.00	953.52			

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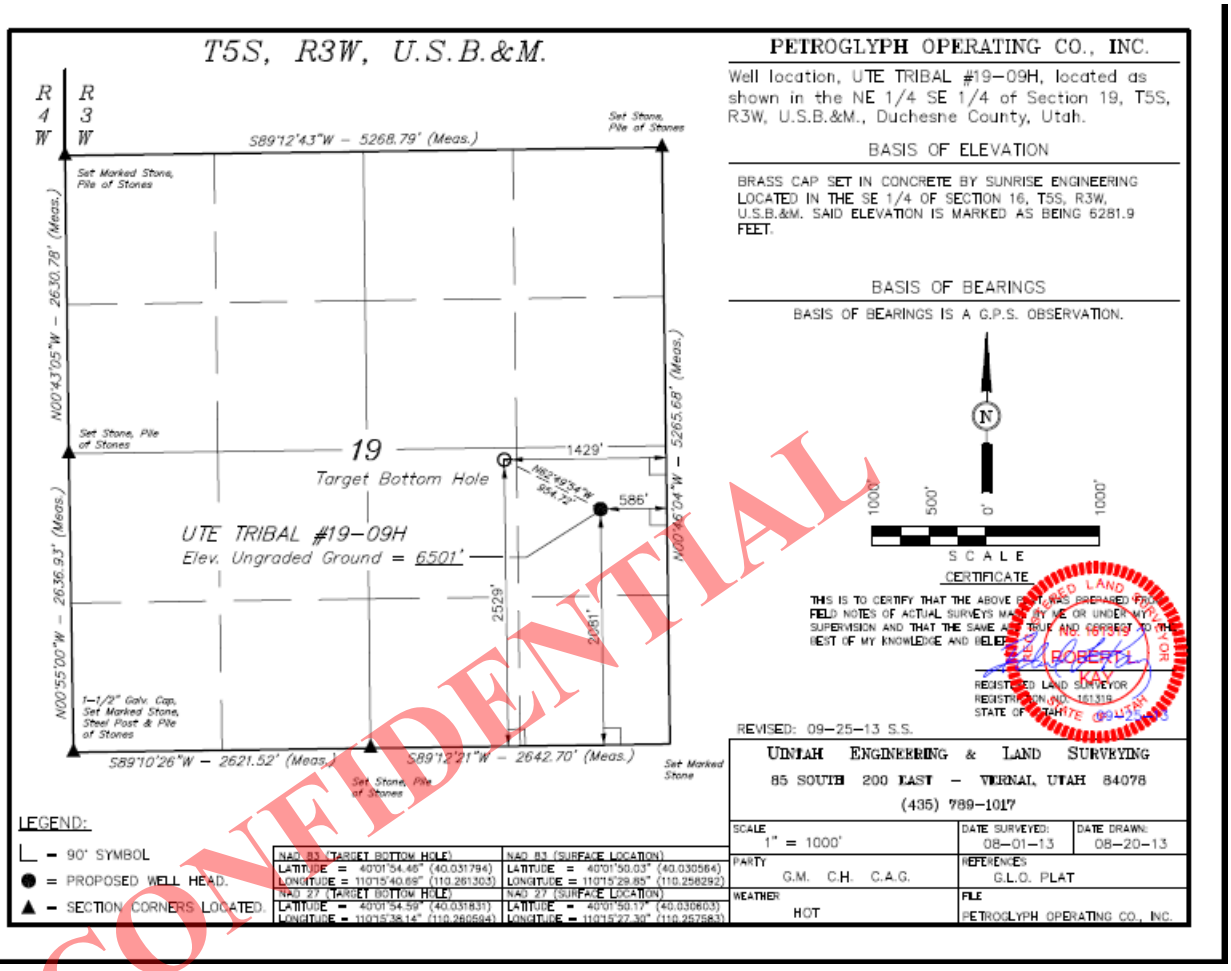
1999-2013 Stoner Engineering LLC

RECEIVED: October 31, 2013



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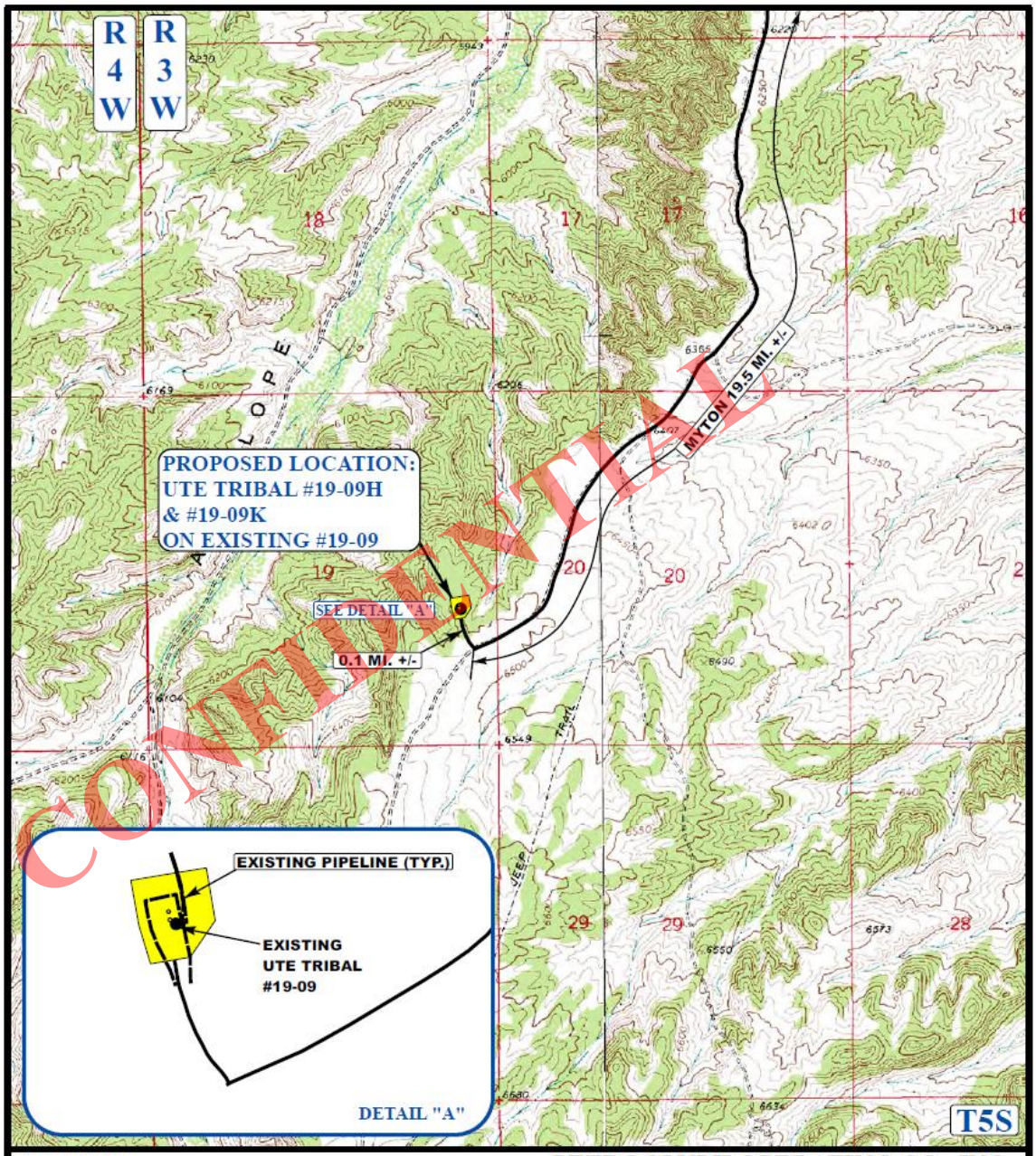
RECEIVED: October 31, 2013



LEGEND:

EXISTING ROADS
EXISTING PIPELINE

N

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #19-09H & #19-09K
ON EXISTING #19-09
SECTION 19, T5S, R3W, U.S.B.&M.
NE 1/4 SE 1/4

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

ACCESS ROAD MAP

09	05	13
MONTH	DAY	YEAR

SCALE: 1"=2000' | DRAWN BY: L.S. | REVISED: 00-00-00

B TOPO

RECEIVED: October 31, 2013

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

October 30, 2013

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

Re: Directional Drilling R649-3-11
Ute Tribal 19-09H: 2081' FSL & 586' FEL, NE/SE, (Surface Hole)
2529' FSL & 1429' FEL, NW/SE, (Bottom Hole)
Sec. 19, T5S, R3W, U.S.B.&M.,
Duchesne County, Utah

CONFIDENTIAL

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on October 30, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 19-11L 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: October 31, 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 19-09H Well, located in the NE/SE of Section 19, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3514;** and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138335.

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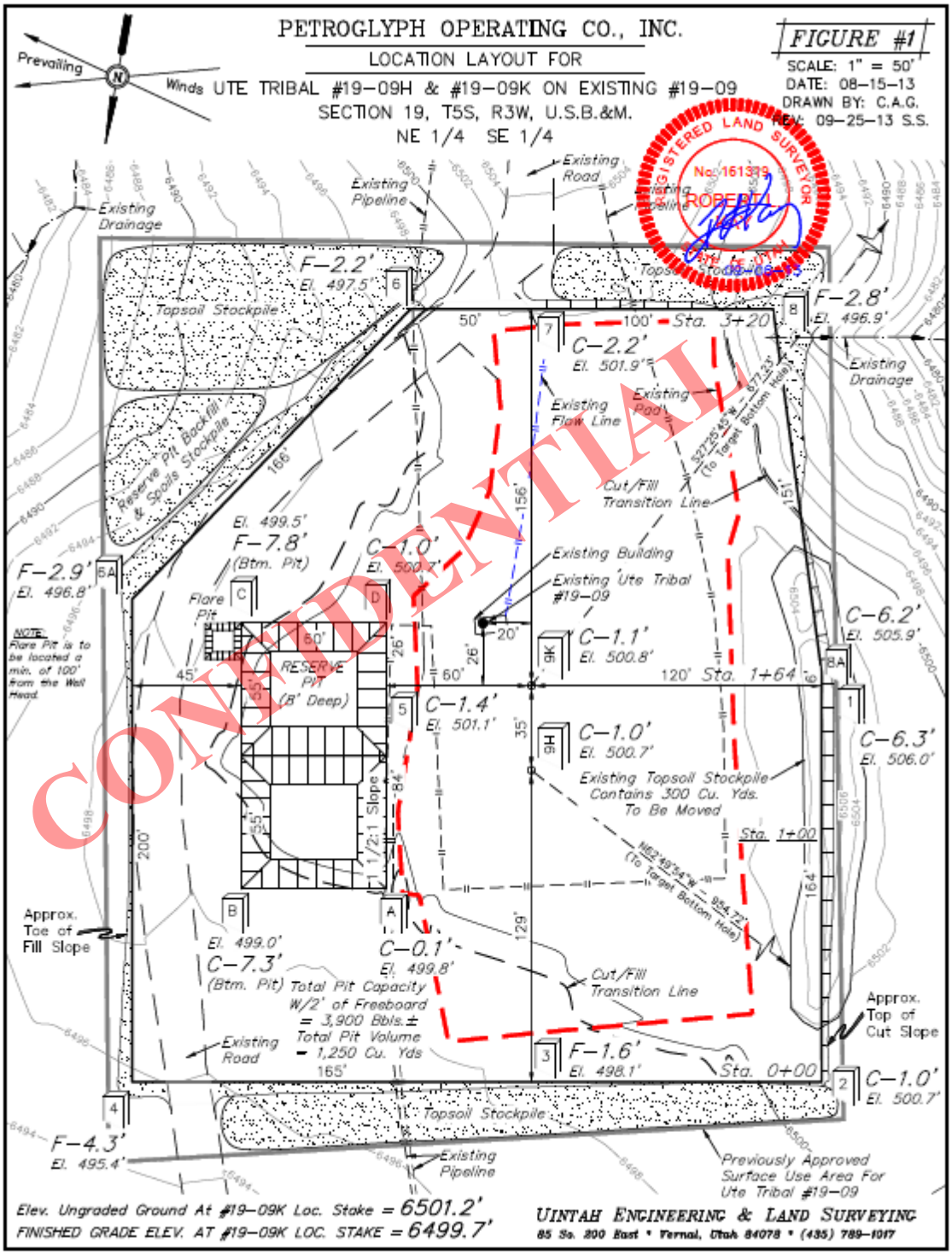
_____ _____

Date

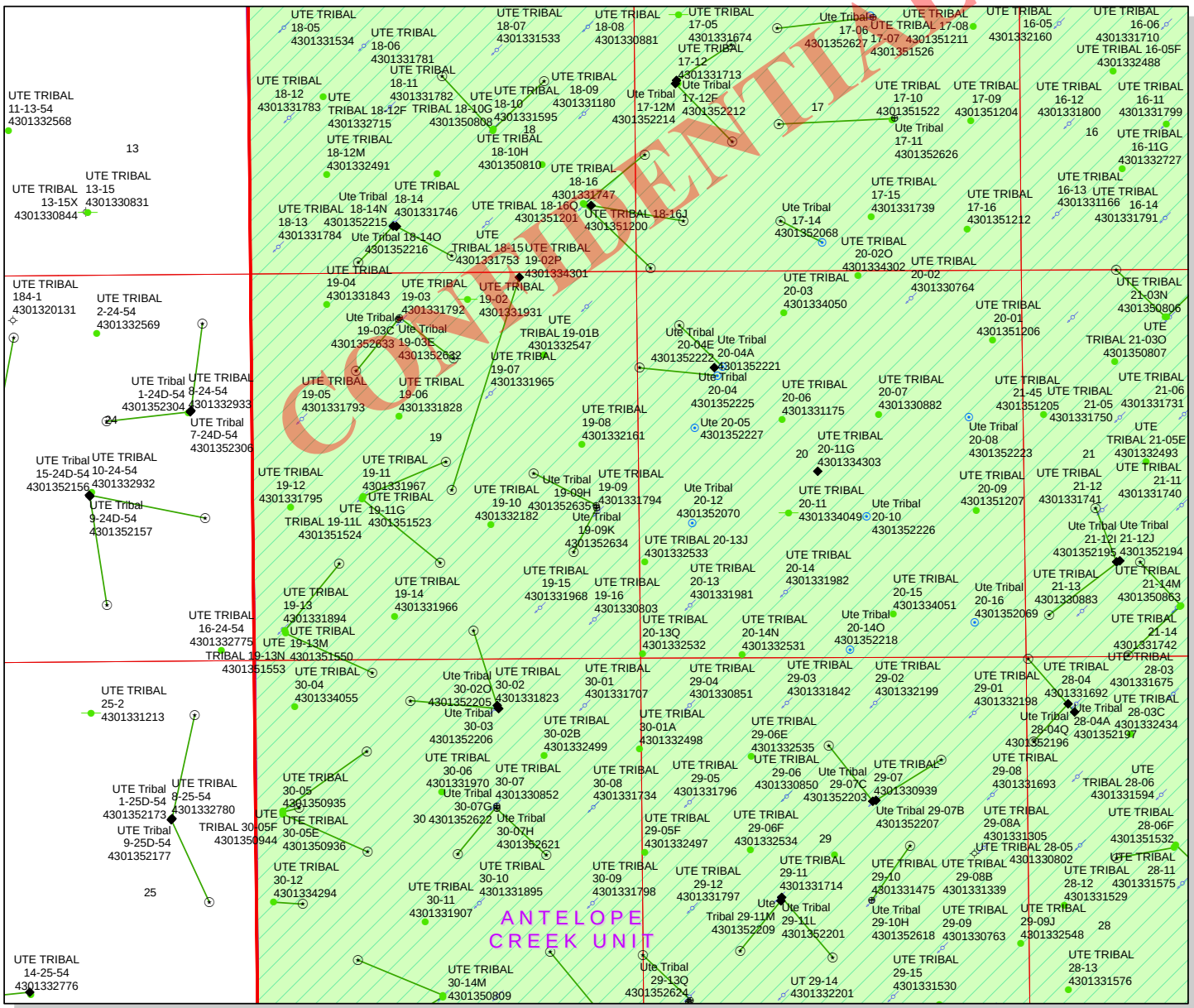
Ed Trotter, as Agent for
Petroglyph Operating Co., Inc.

RECEIVED: October 31, 2013



RECEIVED: October 31, 2013

API Well Number: 43013526350000



API Number: 4301352635

Well Name: Ute Tribal 19-09H

Township: T05.0S Range: R03.0W Section: 19 Meridian: U

Operator: PETROGLYPH OPERATING CO

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

Wells Query
Status

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

Units
STATUS

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

1,700 850 0 1,700 Feet

1:16,807

RECEIVED: November 06, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/31/2013
API NO. ASSIGNED: 43013526350000
WELL NAME: Ute Tribal 19-09H
OPERATOR: PETROGLYPH OPERATING CO (N3800)
PHONE NUMBER: 435 789-4120
CONTACT: Ed Trotter

PROPOSED LOCATION: NESE 19 050S 030W
Permit Tech Review: ✔

SURFACE: 2081 FSL 0586 FEL
Engineering Review: ☐

BOTTOM: 2529 FSL 1429 FEL
Geology Review: ✔

COUNTY: DUCHESNE
LATITUDE: 40.03056
LONGITUDE: -110.25830
UTM SURF EASTINGS: 563283.00
NORTHINGS: 4431413.00
FIELD NAME: ANTELOPE CREEK
LEASE TYPE: 2 - Indian
LEASE NUMBER: 1420H623514
PROPOSED PRODUCING FORMATION(S): GREEN RIVER
SURFACE OWNER: 2 - Indian
COALBED METHANE: NO

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RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: ANTELOPE CREEK

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 214-2
Effective Date: 6/9/2000
Siting: Suspends General Siting

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

RECEIVED: November 06, 2013

GARY R. HERBERT
Governor
SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Ute Tribal 19-09H
API Well Number: 43013526350000
Lease Number: 1420H623514
Surface Owner: INDIAN
Approval Date: 11/6/2013

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

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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

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

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

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

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil &

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

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

RECEIVED

NOV 06 2013

BLM

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

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

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1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

5. Lease Serial No.
1420H623514

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
1420H624650

8. Lease Name and Well No.
UTE TRIBAL 19-09H

2. Name of Operator
PETROGLYPH OPERATING CO., INC.
Contact: ED H TROTTER
Email: edtrotter@easilink.com

9. API Well No.
4301352635

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

3b. Phone No. (include area code)
Ph: 435-789-4120
Fx: 435-789-1420

10. Field and Pool, or Exploratory
ANTELOPE CREEK

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NESE 2081FSL 586FEL

At proposed prod. zone NWSE 2529FSL 1429FEL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 19 T5S R3W Mer UBM

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

12. County or Parish
DUCHESNE

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
586

16. No. of Acres in Lease
640.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
859

19. Proposed Depth
6433 MD
6313 TVD

20. BLM/BIA Bond No. on file
LPM4138335

21. Elevations (Show whether DF, KB, RT, GL, etc.
6500 GL

22. Approximate date work will start
12/15/2013

23. Estimated duration
45 DAYS

24. Attachments

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

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

25. Signature
(Electronic Submission)

Name (Printed/Typed)
LESTER FARNSWORTH Ph: 435-722-2531

Date
10/31/2013

Title
DISTRICT MANAGER

Approved by (Signature)

Name (Printed/Typed) Jerry Kenczka

Date JUL 02 2014

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 #225100 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO., INC., sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 11/12/2013 ()

NOTICE OF APPROVAL

UDOGM

**** 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:	**PETROGLYPH OPERATING CO INC**	**Location:**	**NESE, Sec. 19, T5S, R3W**
Well No:	**UTE TRIBAL 19-09H**	**Lease No:**	**14-20-H62-3514**
API No:	**43-013-52635**	**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)

Company/Operator: Petroglyph
Well Name & Numbers: Ute Tribal 19-09H and 19-09K

CONDITIONS OF APPROVAL:

- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.

- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

apd_coa Downhole _Ptyph

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

- applicable wells:
- _ptyph
- Ute Tribal

- 1420H623511
- 16-04A
- 16-04Q

- 1420H624633
- 17-06
- 17-11

- 1420H623514
- 19-09H

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.

- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.</u>

- 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 <u>**NOT**</u> 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.

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623514

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: ANTELOPE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Ute Tribal 19-09H

2. NAME OF OPERATOR: PETROGLYPH OPERATING CO

9. API NUMBER: 43013526350000

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

PHONE NUMBER: 208 685-7685 Ext

9. FIELD and POOL or WILDCAT: ANTELOPE CREEK

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081 FSL 0586 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 19 Township: 05.0S Range: 03.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ✓ SPUD REPORT — Date of Spud: 8/29/2014
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

This well was spud on 08/29/2014 at approximately 01:00 P.M. Using a Bucket Rig provided by Craig's Energy, Vernal Utah, we set 60' of 16" Conductor. For additional information please contact our staff at 435-722-2531.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
September 02, 2014

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

SIGNATURE	DATE
N/A	9/2/2014

RECEIVED: Sep. 02, 2014

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

RECEIVED
SEP 02 2014
Div. of Oil, Gas & Mining

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Company

Operator Account Number: N 3800

Address: P.O. Box 607

city Roosevelt

state UT zip 84066

Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352634	Ute Tribal 19-09K		NESE	19	5S	3W	Duchesne
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	09397	8/27/2014			9/3/14	
Comments: CONFIDENTIAL							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352635	Ute Tribal 19-09H		NESE	19	5S	3W	Duchesne
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	09397	8/29/2014			9/3/14	
Comments: CONFIDENTIAL							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Rodrigo Jurado
Name (Please Print)

Signature

Regulatory Compliance Spc
Title

9/2/2014
Date

(5/2000)

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Pro Petro
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 19-09H
Qtr/Qtr NESE Section 19 Township 5S Range 3W
Lease Serial Number 14-20-H62-3514
API Number 43-013-52635

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 9/10/2014 12:00 AM ☒ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

Remarks We plan to run +/- 500' of 8-5/8" J-55 Casing Notice at the time indicated. (Sent 9/8/2014 @ 2:00 P.M.)

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623514

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Ute Tribal 19-09H

2. NAME OF OPERATOR: PETROGLYPH OPERATING CO

9. API NUMBER: 43013526350000

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

PHONE NUMBER: 208 685-7685 Ext

9. FIELD and POOL or WILDCAT: ANTELOPE CREEK

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081 FSL 0586 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 19 Township: 05.0S Range: 03.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/12/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	✓ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Please see attached.

Accepted by the Utah Division of Oil, Gas and Mining

Date: October 23, 2014

By: Dark K Quist

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

SIGNATURE	DATE
N/A	10/13/2014

RECEIVED: Oct. 13, 2014

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H623514
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
7. UNIT or CA AGREEMENT NAME: 1420H624650
8. WELL NAME and NUMBER: Ute Tribal 19-09H
9. API NUMBER: 4301352635
10. FIELD AND POOL, OR WILDCAT: Antelope Creek

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR: Petroglyph Operating Company Inc.

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-2531

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081' FSL, 586' FEL COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 19 5S 3W U STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 11/12/2014	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

On or around 11/12/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4285-88, 4365-66, 4371-74, 4396-4400, 4498-4501, 4503-06, 4510-17, 4888-91, 4900-05, 4037-39, 5044-46, 5050-65, 5116-17, 5302-04, 5404-06, 5430-32, 5438-46, 5496-98, 5509-12, 5521-24, 5534-35, 5546-48, 5584-86, 5674-75, 5679-80, 5725-28, 5746-49, 5862-68, 5939-41, 5944-51, 5999-6002, 6005-10, 6034-35, 6038-639, 6045-46 & 6137-43. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:
5,939-6,143: 42,000 Gals of fluid containing 75,000#'s of sand,
5,674-5,868: 21,280 Gals of fluid containing 38,000#'s of sand,
5,302-5,586: 44,800 Gals of fluid containing 80,000#'s of sand,
5,037-5,117: 33,600 Gals of fluid containing 60,000#'s of sand,
4,888-4,905: 14,000 Gals of fluid containing 25,000#'s of sand,
4,498-4,517: 19,600 Gals of fluid containing 35,000#'s of sand,
4,285-4,440: 19,600 Gals of fluid containing 35,000#'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 and the well swabbed if necessary.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist
SIGNATURE _____ DATE 10/13/2014

(This space for State use only)

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623514

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Ute Tribal 19-09H

2. NAME OF OPERATOR: PETROGLYPH OPERATING CO

9. API NUMBER: 43013526350000

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

PHONE NUMBER: 208 685-7685 Ext

9. FIELD and POOL or WILDCAT: ANTELOPE CREEK

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081 FSL 0586 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 19 Township: 05.0S Range: 03.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 1/3/2015
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

The date of first production for this well was 01/03/2015.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 05, 2015

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

SIGNATURE	DATE
N/A	1/5/2015

RECEIVED: Jan. 05, 2015

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H623514

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: ANTELOPE CREEK

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: Ute Tribal 19-09H

2. NAME OF OPERATOR: PETROGLYPH OPERATING CO

9. API NUMBER: 43013526350000

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

PHONE NUMBER: 208 685-7685 Ext

9. FIELD and POOL or WILDCAT: ANTELOPE CREEK

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081 FSL 0586 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 19 Township: 05.0S Range: 03.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ✓ SUBSEQUENT REPORT — Date of Work Completion: 1/2/2015
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

Please see attached.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 23, 2015

NAME (PLEASE PRINT) Rodrigo Jurado

PHONE NUMBER 435 722-5302

TITLE Regulatory & Compliance Spc

SIGNATURE N/A

DATE 2/18/2015

RECEIVED: Feb. 18, 2015

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-H62-3514
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
8. WELL NAME and NUMBER: Ute Tribal 19-09H
9. API NUMBER: 4301352635
10. FIELD AND POOL, OR WILDCAT: Antelope Creek

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR: Petroglyph Operating Company Inc.

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-2531

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2081' FSL, 586' FEL COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 19 5S 3W U STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 1/2/2015	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

On 11/6/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 30'. On 12/11/2014 we then perforated the following: 4285-88, 4365-66, 4371-74, 4396-4400, 4498-4501, 4503-06, 4510-17, 4888-91, 4900-05, 5037-39, 5044-46, 5050-65, 5116-17, 5302-04, 5404-06, 5430-32, 5438-46, 5496-98, 5509-12, 5521-24, 5534-35, 5546-49, 5584-86, 5674-75, 5679-80, 5725-28, 5746-49, 5862-68, 5939-41, 5944-51, 5999-6002, 6005-10, 6034-35, 6038-39, 6045-46 & 6137-43.
We isolated and fracture treated the following intervals:
5,939'-6,143': 926 Bbls of fluid containing 75,040#'s of sand,
5,674'-5,868': 536 Bbls of fluid containing 38,200#'s of sand,
5,320'-5,586': 790 Bbls of fluid containing 60,240#'s of sand,
5,037'-5,117': 740 Bbls of fluid containing 66,020#'s of sand,
4,888'-4,905': 443 Bbls of fluid containing 25,460#'s of sand,
4,498'-4,517': 731 Bbls of fluid containing 65,040#'s of sand,
4,285'-4,400': 506 Bbls of fluid containing 45,060#'s of sand.
Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna 22 LP 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 PBTD, 6,390'. The well was swabbed until a good oil cut was see, then ran a pump on 1/2/2015 and put to pump.

NAME (PLEASE PRINT): Rodrigo Jurado TITLE: Regulatory Compliance Specialist
SIGNATURE: DATE: 2/18/2015

(This space for State use only)

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

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3514
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
8. WELL NAME and NUMBER: Ute Tribal 19-09H
9. API NUMBER: 4301352635
10 FIELD AND POOL, OR WILDCAT: Antelope Creek

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

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

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

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-2531

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2081' FSL 586' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2520' FSL 1436' FEL NWSE Sec 19 T5S R3W
AT TOTAL DEPTH: 2605' FSL 1653' FEL NWSE Sec 19 T5S R3W

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 19 5S 3W U
12. COUNTY: Duchesne
13. STATE: UTAH

14. DATE SPUDDED: 8/29/2014
15. DATE T.D. REACHED: 9/26/2014
16. DATE COMPLETED: 1/2/2015 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 6,513' RKB

18. TOTAL DEPTH: MD 6,471 TVD 6,300
19. PLUG BACK T.D.: MD 6,390 TVD 6,219
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACTR, 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				0	Conductor
12.25	8.625 J-55	24	0	556		G 350	71	0	
7.875	5.5 J-55	15.5	0	6,463		G 890	284	30	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	6,172							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	4,285	6,143	4,133	5,974
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
4,285 6,143	0.42	484	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4,285'-6,143'	4,672 Bbls of Dynafrac HT 25 Gelled Fluid containing 375,060#'s of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS: POW

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
1/3/2015		2/14/2015		24			68	70	54	Rod Pump
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
32/64	275	275	39.80	1	1,029		68	70	54	Open

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

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

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Trona	2,914
Mahogany Shale	3,080
Lower Parachute Creek	3,405
Garden Gulch	3,810
Middle Garden Gulch	4,216
Lower Garden Gulch	4,710
Douglas Creek	4,850
Lower Douglas Creek	5,238
Castle Peak	5,802
Uteland Butte	6,225

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist

SIGNATURE DATE 3/2/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

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

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 19-09H

API number: 4301352635

Well Location: QQ NESE Section 19 Township 5S Range 3W County Duchesne

Well operator: Petroglyph Operating Company, Inc.

Address: P.O. Box 607

city Roosevelt state UT zip 84066 Phone: (435) 722-2531

Drilling contractor: Pro Petro

Address: 1422 East 1500 South

city Vernal state UT zip 84078 Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME	QUALITY
FROM	TO	(FLOW RATE OR HEAD)	(FRESH OR SALTY)
0	548	0	No Water Encountered

Formation tops: (Top to Bottom)

1 _____ 2 _____ 3 _____
4 _____ 5 _____ 6 _____
7 _____ 8 _____ 9 _____
10 _____ 11 _____ 12 _____

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

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

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist

SIGNATURE _____ DATE 9/12/2014

(5/2000)

Sundry Number: 61362 API Well Number: 43013526350000

PAYZONE DIRECTIONAL

Job Number: 141442
Company: Petroglyph
Lease/Well: Ute Tribal 19-09H
Location: Section 19 T5S, R3W
Rig Name: Capstar 334
RKB: 6512.7
G.L. or M.S.L.: 6499.7

State/Country: UT/USA
Declination: 10.97
Grid: True
File name: C:\WINSERVE\UT141442.SVY
Date/Time: 27-Sep-14 / 00:46
Curve Name: Actual

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 296.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
595.00	.75	162.49	594.98	-3.71	1.17	-2.68	3.89	162.49	.13
688.00	.62	223.58	687.98	-4.66	1.01	-2.95	4.77	167.79	.76
780.00	1.23	281.72	779.97	-4.82	-.30	-1.84	4.83	183.59	1.14
Transision from HWDP to drill pipe									
895.00	2.90	315.12	894.89	-2.51	-3.56	2.10	4.36	234.88	1.73
979.00	3.35	307.13	978.77	.48	-7.02	6.52	7.04	273.92	.74
1064.00	5.32	305.18	1063.52	4.25	-12.22	12.85	12.94	289.18	2.32
1148.00	6.81	302.15	1147.05	9.14	-19.62	21.64	21.65	294.99	1.81
1232.00	8.53	296.88	1230.29	14.61	-29.40	32.83	32.83	296.43	2.21
1317.00	9.54	298.02	1314.24	20.77	-41.24	46.17	46.17	296.73	1.21
1401.00	10.20	302.28	1397.00	28.01	-53.67	60.52	60.54	297.56	1.17
1485.00	11.51	300.39	1479.49	36.23	-67.19	76.27	76.33	298.33	1.62
1569.00	13.02	297.82	1561.57	44.88	-82.79	94.08	94.17	298.46	1.91

Sundry Number: 61362 API Well Number: 43013526350000

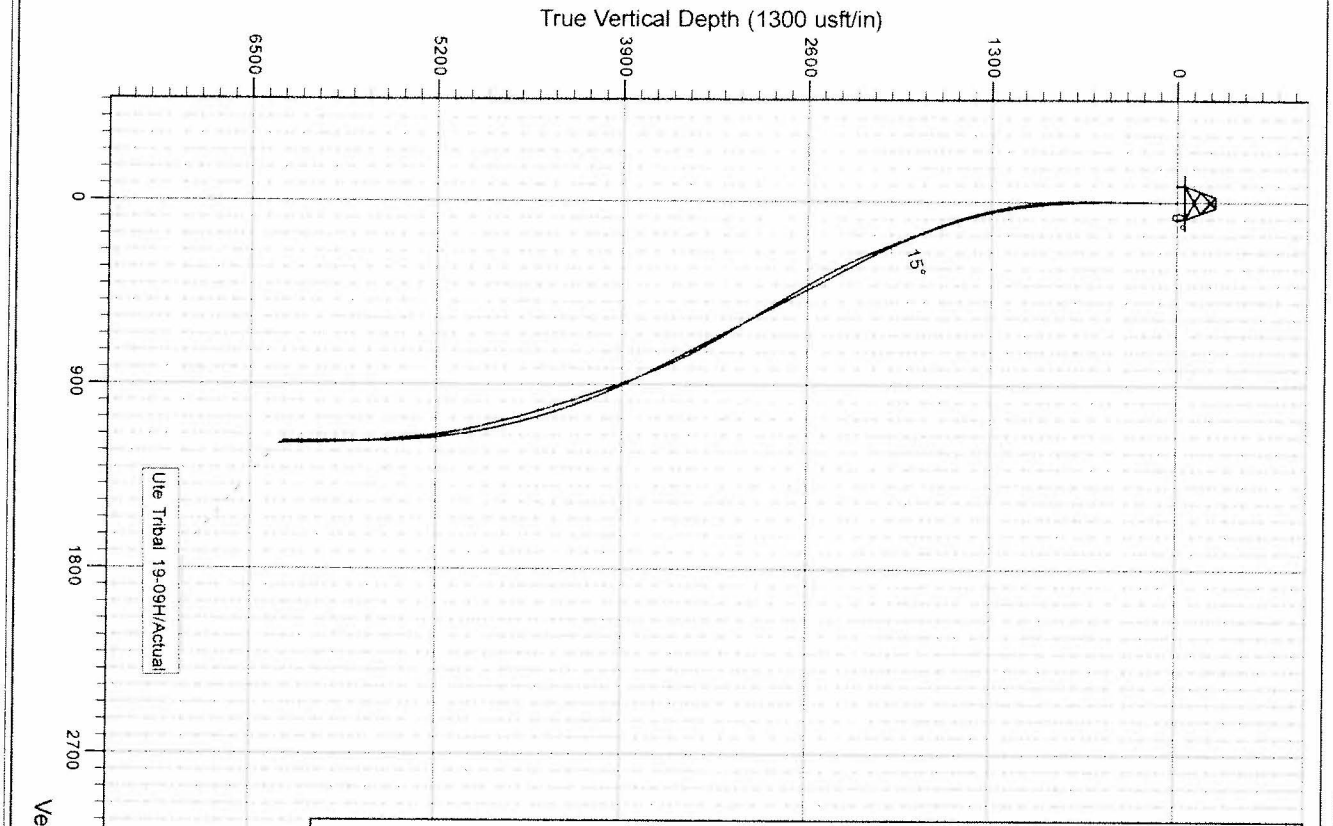
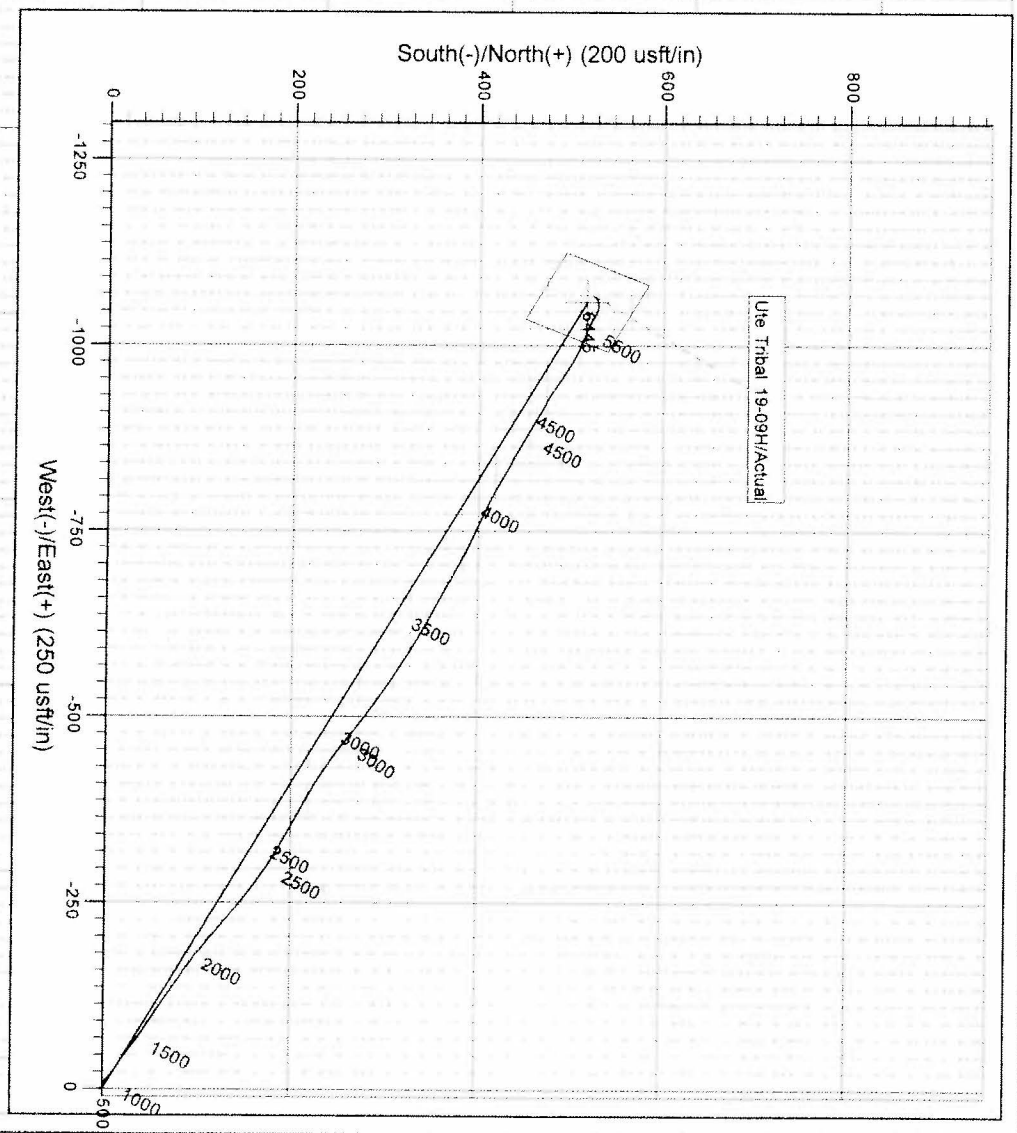
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
1654.00	14.41	297.85	1644.15	54.29	-100.61	114.22	114.32	298.35	1.64
1738.00	14.94	298.17	1725.41	64.29	-119.39	135.49	135.60	298.30	.64
1822.00	14.68	299.51	1806.62	74.64	-138.20	156.94	157.07	298.37	.51
1907.00	15.39	299.00	1888.70	85.41	-157.44	178.95	179.12	298.48	.85
1991.00	15.34	300.92	1969.70	96.53	-176.72	201.15	201.37	298.64	.61
2075.00	15.63	304.29	2050.66	108.61	-195.60	223.42	223.73	299.04	1.13
2160.00	15.81	304.39	2132.48	121.60	-214.62	246.20	246.67	299.54	.21
2244.00	17.35	304.69	2212.98	135.20	-234.36	269.91	270.56	299.98	1.84
2328.00	19.12	302.29	2292.76	149.67	-256.29	295.97	296.79	300.29	2.29
2413.00	19.91	300.17	2372.88	164.39	-280.57	324.24	325.18	300.37	1.25
2497.00	20.30	296.97	2451.76	178.18	-305.92	353.07	354.03	300.22	1.39
2585.00	21.45	294.33	2533.99	191.74	-334.19	384.42	385.29	299.84	1.69
2676.00	22.24	293.54	2618.45	205.47	-365.14	418.26	418.98	299.37	.93
2767.00	22.02	294.72	2702.75	219.48	-396.43	452.52	453.13	298.97	.55
2859.00	21.97	297.63	2788.05	234.67	-427.34	486.97	487.54	298.77	1.19
2950.00	22.28	302.15	2872.36	251.75	-457.03	521.14	521.78	298.85	1.90
3042.00	23.29	302.68	2957.18	270.85	-487.10	556.54	557.34	299.08	1.12
3133.00	23.29	298.90	3040.77	289.26	-518.00	592.38	593.29	299.18	1.64
3224.00	23.69	299.03	3124.23	306.83	-549.73	628.60	629.56	299.17	.44
3315.00	22.85	296.66	3207.83	323.63	-581.51	664.52	665.50	299.10	1.38
3406.00	22.10	294.51	3291.92	338.66	-612.88	699.31	700.22	298.92	1.22
3497.00	21.18	293.23	3376.50	352.24	-643.56	732.84	733.65	298.69	1.14
3588.00	18.81	294.55	3462.01	364.82	-672.01	763.93	764.65	298.50	2.65
3679.00	17.67	293.36	3548.44	376.39	-698.04	792.39	793.05	298.33	1.32
3770.00	16.04	291.39	3635.53	386.46	-722.42	818.72	819.30	298.14	1.90
3861.00	16.30	291.47	3722.93	395.72	-746.01	843.98	844.47	297.94	.29
3953.00	14.88	289.65	3811.54	404.41	-769.16	868.60	868.99	297.73	1.63
4044.00	14.41	291.78	3899.58	412.54	-790.67	891.50	891.83	297.55	.79
4135.00	14.59	296.09	3987.69	421.79	-811.48	914.26	914.55	297.46	1.20
4226.00	13.63	293.73	4075.94	431.14	-831.59	936.43	936.71	297.40	1.23
4318.00	11.87	292.62	4165.67	439.14	-850.25	956.71	956.96	297.32	1.93
4409.00	13.49	296.04	4254.45	447.40	-868.43	976.67	976.90	297.26	1.96
4500.00	12.13	294.64	4343.18	456.05	-886.66	996.84	997.07	297.22	1.53
4592.00	13.01	296.26	4432.98	464.66	-904.73	1016.86	1017.08	297.18	1.03

Actual File: C:\WINSERVE\UT141442.SVY

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
4683.00	11.43	292.97	4521.91	472.71	-922.22	1036.11	1036.31	297.14	1.90
4774.00	10.59	297.58	4611.24	480.10	-937.93	1053.47	1053.67	297.11	1.34
4865.00	10.02	299.03	4700.77	487.82	-952.27	1069.74	1069.94	297.12	.69
4957.00	10.59	297.98	4791.29	495.67	-966.73	1086.18	1086.40	297.15	.65
5048.00	9.40	294.24	4880.90	502.64	-980.89	1101.96	1102.18	297.13	1.49
5139.00	8.35	291.17	4970.81	508.08	-993.83	1115.98	1116.17	297.08	1.27
5231.00	7.29	288.35	5061.96	512.33	-1005.60	1128.42	1128.59	297.00	1.22
5322.00	6.37	286.20	5152.31	515.56	-1015.93	1139.11	1139.26	296.91	1.05
5413.00	4.97	287.47	5242.86	518.15	-1024.54	1147.99	1148.11	296.83	1.54
5504.00	4.13	298.50	5333.58	520.89	-1031.18	1155.16	1155.27	296.80	1.33
5596.00	3.56	295.38	5425.37	523.70	-1036.67	1161.33	1161.44	296.80	.66
5687.00	3.38	292.79	5516.20	525.95	-1041.69	1166.83	1166.94	296.79	.26
5779.00	2.99	284.31	5608.06	527.59	-1046.52	1171.89	1171.99	296.75	.66
5870.00	2.50	279.04	5698.96	528.49	-1050.78	1176.11	1176.20	296.70	.61
5961.00	2.13	268.31	5789.88	528.75	-1054.43	1179.51	1179.58	296.63	.62
6053.00	1.76	261.77	5881.83	528.50	-1057.54	1182.19	1182.24	296.55	.47
6144.00	1.54	254.95	5972.79	527.98	-1060.10	1184.27	1184.31	296.48	.32
6235.00	1.45	247.44	6063.76	527.22	-1062.34	1185.95	1185.98	296.39	.24
6326.00	1.41	232.15	6154.73	526.10	-1064.29	1187.20	1187.22	296.30	.42
6417.00	1.54	224.76	6245.70	524.54	-1066.04	1188.09	1188.10	296.20	.25
Projection to TD									
6471.00	1.54	224.76	6299.68	523.51	-1067.06	1188.56	1188.56	296.13	.00

Sundry Number: 61362 API Well Number: 43013526350000

Job Number: UT 141442
Company: Petroglyph
Well: Ute Tribal 19-09H
Rig Name: Capstar 334
Design: Actual

Azimuths to True North
Magnetic North: 10.97°

Magnetic Field
Strength: 51905.7snT
Dip Angle: 65.66°
Date: 9/18/2014
Model: IGRF2010