

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 08-02-D4								
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 DUCHESNE								
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) 1-109-IND-5351			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Duchesne Land LC						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P.O. Box 358, Duchesne, UT 84021						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		602 FNL 1633 FEL		NWNE		8		4.0 S		4.0 W		U		
Top of Uppermost Producing Zone		660 FNL 1980 FEL		NWNE		8		4.0 S		4.0 W		U		
At Total Depth		660 FNL 1980 FEL		NWNE		8		4.0 S		4.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 602			23. NUMBER OF ACRES IN DRILLING UNIT 4150								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2442			26. PROPOSED DEPTH MD: 8970 TVD: 8950								
27. ELEVATION - GROUND LEVEL 5612			28. BOND NUMBER LPM4138336			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
COND	20	14	0 - 55	5.0	Unknown	10.0	Class G	25	1.17	15.8				
SURF	12.25	8.625	0 - 495	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8				
PROD	7.875	5.5	0 - 8970	15.5	J-55 LT&C	10.0	Class G	601	1.92	12.5				
							Class G	594	1.46	13.4				
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Ed Trotter				TITLE Agent				PHONE 435 789-4120						
SIGNATURE				DATE 07/02/2012				EMAIL edtrotter@easilink.com						
API NUMBER ASSIGNED 43013515390000				APPROVAL				 Permit Manager						

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-02-D4
NW NE, SEC 8, T4S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Subsea	TVD	MD
Rig KB~14.4' above GGL	5626	0	0
Surface Formation = Uinta			
Uinta	5612	14	14
Green River	3658	1968	1976
Trona	2021	3605	3625
Mahogany Shale	1843	3783	3803
"B" Marker	527	5099	5119
"X" Marker	-12	5638	5658
Douglas Creek Marker	-149	5775	5795
"B" Limestone	-620	5099	6266
Base Castle Peak Limestone	-1192	6818	6838
BSCARB	-1543	7169	7189
Wasatch	-1820	7446	7466
Rig TD	-3324	8950	8971

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

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	5980	0	0
Oil/Gas	Douglas Creek	-149	5775	5795
Oil/Gas	Castle Peak	-1192	6818	6838
Oil/Gas	Wasatch	-1820	7446	7466

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

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

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

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



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	8971'	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 5119' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft ³ /sk)
	Bottom		Vol (ft ³)			
Conductor	0 54	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 494	Class G +2% CaCl ₂ +0.25 lb/sk Cello Flake	227 265	30%	15.8	1.17
Production Lead	0 5119	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	601 1,153	30%	12.5	1.92
Production Tail	5119 8971	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR ¹ / ₄ (LCM)	594 868	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 494' MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

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

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to 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 494'. 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 494' to 8971'. 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:

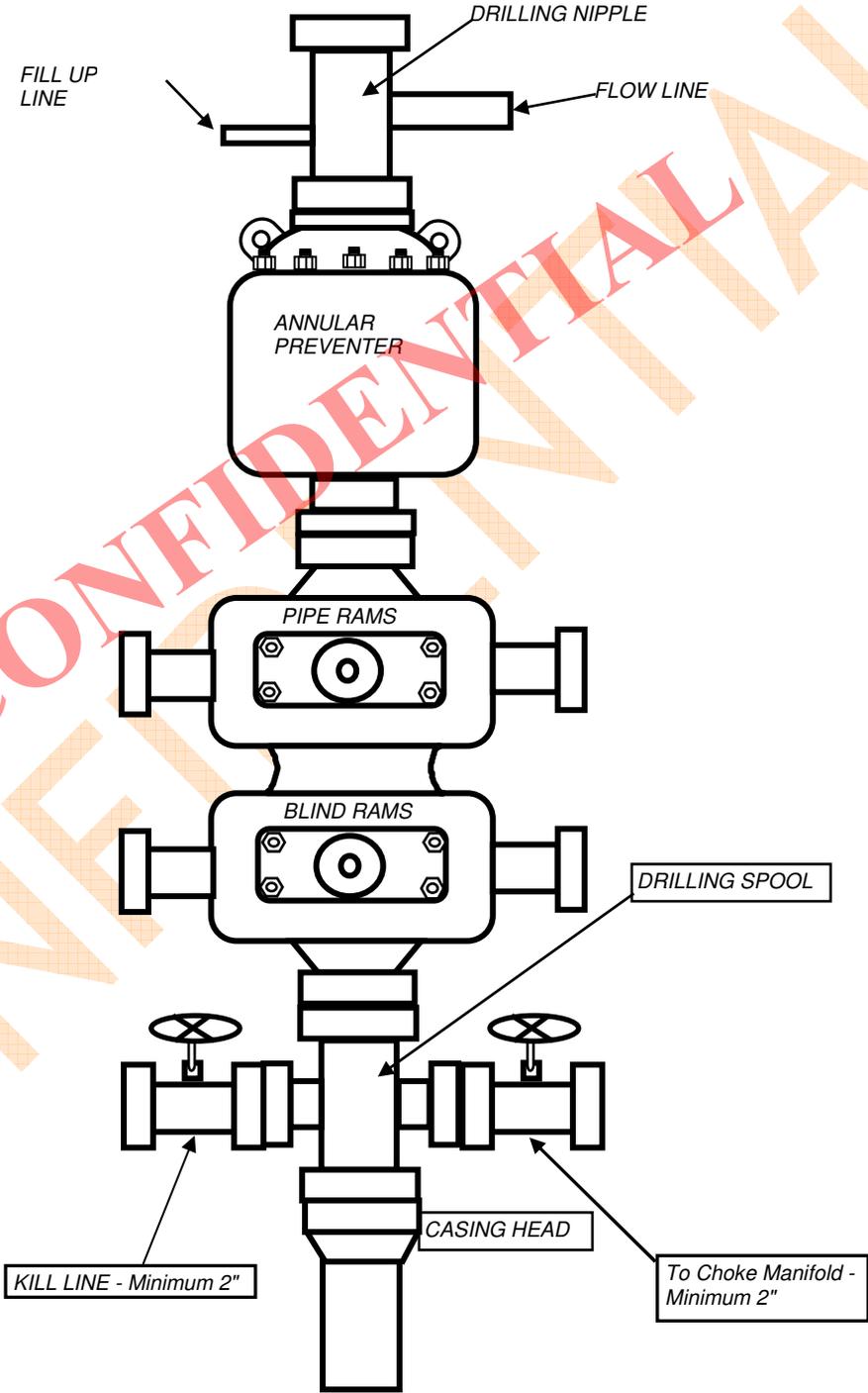
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 2243 PSI (0.25 PSI/ft gradient).
- There exists in the area an abnormally pressured zone, at the approximate depth of the Trona marker (3625' MD). Pressure gradients up to 0.43 PSI/ft can be expected.

9. DIRECTIONAL WELL PLAN:

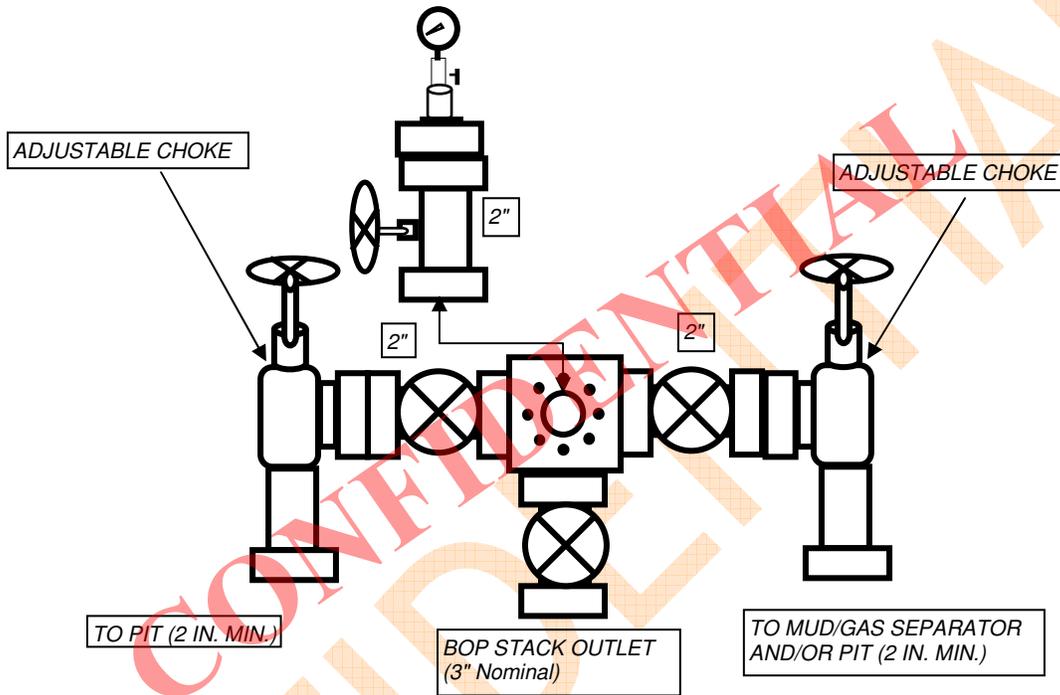
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- Directional drilling plan is attached.

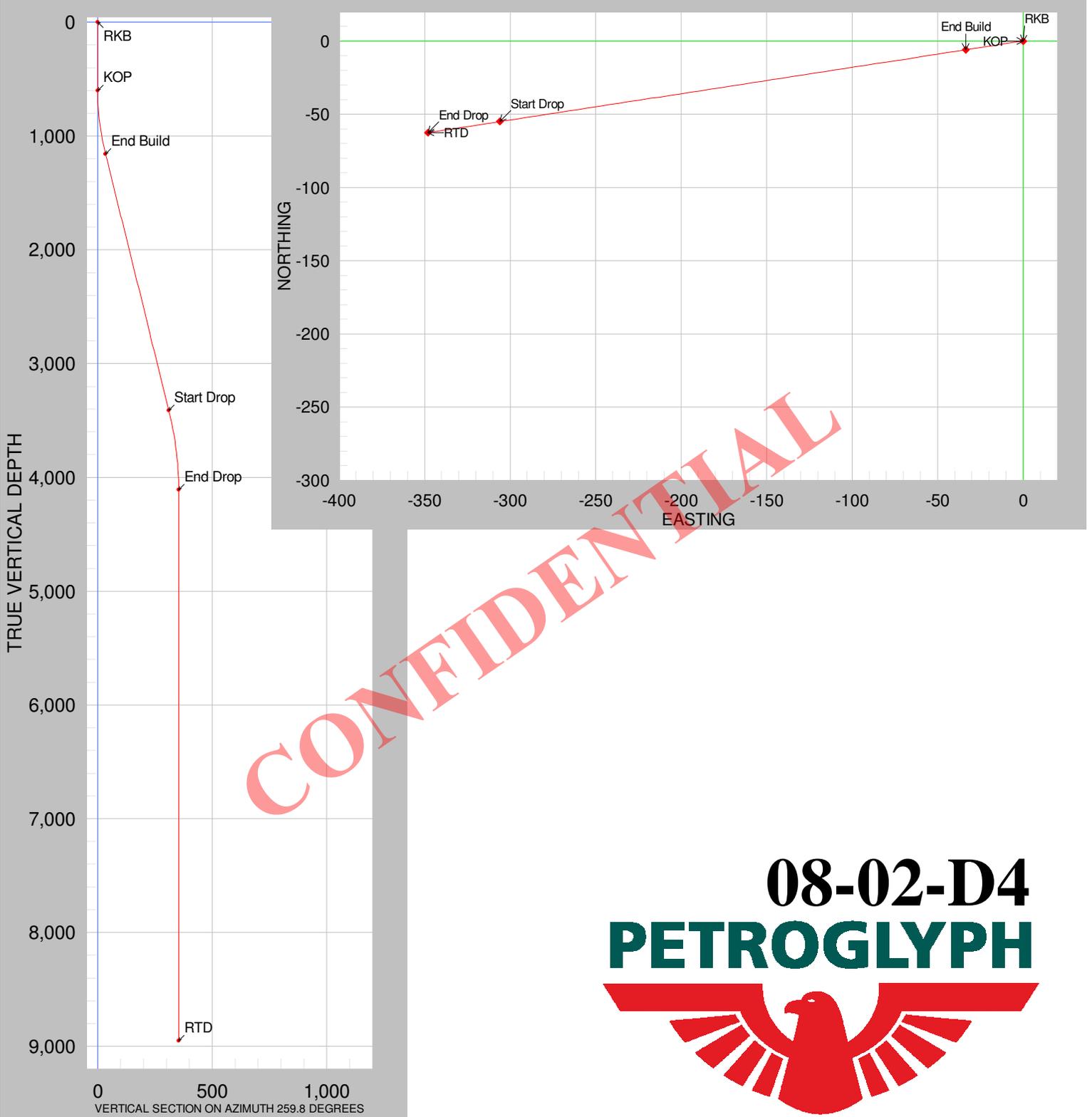
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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





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#	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	1160.00	7.00	259.80	1158.61	-6.05	-33.63	1.25	34.17
3	Start Drop	Tangent	3430.00	7.00	259.80	3411.69	-55.04	-305.90	0.00	310.81
4	End Drop	Drop	4130.00	0.00	0.00	4109.95	-62.60	-347.93	1.00	353.52
5	RTD	Vertical	8971.00	0.00	0.00	8950.95	-62.60	-347.93	0.00	353.52

08-02-D4, Plan 1

Operator	Units feet, %/100ft	10:38 Wednesday, January 09, 2013 Page 1 of 6
Field	County	Vertical Section Azimuth 259.8
Well Name 08-02-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	259.8	650.00	-0.05	-0.27	1.25	0.27			
700.00	1.25	259.8	699.99	-0.19	-1.07	1.25	1.09			
750.00	1.88	259.8	749.97	-0.43	-2.42	1.25	2.45			
800.00	2.50	259.8	799.94	-0.77	-4.29	1.25	4.36			
850.00	3.13	259.8	849.88	-1.21	-6.71	1.25	6.82			
900.00	3.75	259.8	899.79	-1.74	-9.66	1.25	9.81			
950.00	4.38	259.8	949.66	-2.37	-13.15	1.25	13.36			
1000.00	5.00	259.8	999.49	-3.09	-17.17	1.25	17.44			
1050.00	5.63	259.8	1049.28	-3.91	-21.72	1.25	22.07			
1100.00	6.25	259.8	1099.01	-4.82	-26.81	1.25	27.24			
1150.00	6.88	259.8	1148.68	-5.84	-32.44	1.25	32.96			
*** END BUILD (at MD = 1160.00)										
1160.00	7.00	259.8	1158.61	-6.05	-33.63	1.25	34.17			
1200.00	7.00	259.8	1198.31	-6.91	-38.42	0.00	39.04			
1250.00	7.00	259.8	1247.94	-7.99	-44.42	0.00	45.13			
1300.00	7.00	259.8	1297.56	-9.07	-50.42	0.00	51.23			
1350.00	7.00	259.8	1347.19	-10.15	-56.42	0.00	57.32			
1400.00	7.00	259.8	1396.82	-11.23	-62.41	0.00	63.41			
1450.00	7.00	259.8	1446.45	-12.31	-68.41	0.00	69.51			
1500.00	7.00	259.8	1496.07	-13.39	-74.41	0.00	75.60			
1550.00	7.00	259.8	1545.70	-14.47	-80.40	0.00	81.70			

08-02-D4, Plan 1

Operator	Units feet, %100ft	10:38 Wednesday, January 09, 2013 Page 2 of 6
Field	County	Vertical Section Azimuth 259.8
Well Name 08-02-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
1600.00	7.00	259.8	1595.33	-15.55	-86.40	0.00	87.79			
1650.00	7.00	259.8	1644.96	-16.63	-92.40	0.00	93.88			
1700.00	7.00	259.8	1694.58	-17.70	-98.40	0.00	99.98			
1750.00	7.00	259.8	1744.21	-18.78	-104.39	0.00	106.07			
1800.00	7.00	259.8	1793.84	-19.86	-110.39	0.00	112.16			
1850.00	7.00	259.8	1843.46	-20.94	-116.39	0.00	118.26			
1900.00	7.00	259.8	1893.09	-22.02	-122.38	0.00	124.35			
1950.00	7.00	259.8	1942.72	-23.10	-128.38	0.00	130.44			
2000.00	7.00	259.8	1992.35	-24.18	-134.38	0.00	136.54			
2050.00	7.00	259.8	2041.97	-25.26	-140.38	0.00	142.63			
2100.00	7.00	259.8	2091.60	-26.34	-146.37	0.00	148.72			
2150.00	7.00	259.8	2141.23	-27.42	-152.37	0.00	154.82			
2200.00	7.00	259.8	2190.86	-28.49	-158.37	0.00	160.91			
2250.00	7.00	259.8	2240.48	-29.57	-164.36	0.00	167.00			
2300.00	7.00	259.8	2290.11	-30.65	-170.36	0.00	173.10			
2350.00	7.00	259.8	2339.74	-31.73	-176.36	0.00	179.19			
2400.00	7.00	259.8	2389.37	-32.81	-182.36	0.00	185.28			
2450.00	7.00	259.8	2438.99	-33.89	-188.35	0.00	191.38			
2500.00	7.00	259.8	2488.62	-34.97	-194.35	0.00	197.47			
2550.00	7.00	259.8	2538.25	-36.05	-200.35	0.00	203.56			
2600.00	7.00	259.8	2587.87	-37.13	-206.34	0.00	209.66			
2650.00	7.00	259.8	2637.50	-38.21	-212.34	0.00	215.75			
2700.00	7.00	259.8	2687.13	-39.29	-218.34	0.00	221.84			
2750.00	7.00	259.8	2736.76	-40.36	-224.34	0.00	227.94			
2800.00	7.00	259.8	2786.38	-41.44	-230.33	0.00	234.03			
2850.00	7.00	259.8	2836.01	-42.52	-236.33	0.00	240.13			
2900.00	7.00	259.8	2885.64	-43.60	-242.33	0.00	246.22			
2950.00	7.00	259.8	2935.27	-44.68	-248.32	0.00	252.31			
3000.00	7.00	259.8	2984.89	-45.76	-254.32	0.00	258.41			
3050.00	7.00	259.8	3034.52	-46.84	-260.32	0.00	264.50			
3100.00	7.00	259.8	3084.15	-47.92	-266.32	0.00	270.59			
3150.00	7.00	259.8	3133.77	-49.00	-272.31	0.00	276.69			
3200.00	7.00	259.8	3183.40	-50.08	-278.31	0.00	282.78			
3250.00	7.00	259.8	3233.03	-51.16	-284.31	0.00	288.87			
3300.00	7.00	259.8	3282.66	-52.23	-290.30	0.00	294.97			

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3350.00	7.00	259.8	3332.28	-53.31	-296.30	0.00	301.06			
3400.00	7.00	259.8	3381.91	-54.39	-302.30	0.00	307.15			
*** START DROP (at MD = 3430.00)										
3430.00	7.00	259.8	3411.69	-55.04	-305.90	0.00	310.81			
3450.00	6.80	259.8	3431.54	-55.47	-308.26	1.00	313.21			
3500.00	6.30	259.8	3481.22	-56.48	-313.88	1.00	318.92			
3550.00	5.80	259.8	3530.94	-57.41	-319.06	1.00	324.19			
3600.00	5.30	259.8	3580.70	-58.26	-323.82	1.00	329.02			
3650.00	4.80	259.8	3630.51	-59.04	-328.15	1.00	333.42			
3700.00	4.30	259.8	3680.35	-59.75	-332.06	1.00	337.39			
3750.00	3.80	259.8	3730.23	-60.37	-335.53	1.00	340.92			
3800.00	3.30	259.8	3780.13	-60.92	-338.58	1.00	344.02			
3850.00	2.80	259.8	3830.06	-61.39	-341.20	1.00	346.68			
3900.00	2.30	259.8	3880.01	-61.79	-343.39	1.00	348.90			
3950.00	1.80	259.8	3929.98	-62.10	-345.15	1.00	350.69			
4000.00	1.30	259.8	3979.96	-62.34	-346.48	1.00	352.04			
4050.00	0.80	259.8	4029.95	-62.50	-347.38	1.00	352.96			
4100.00	0.30	259.8	4079.95	-62.59	-347.85	1.00	353.44			
*** END DROP (at MD = 4130.00)										
4130.00	0.00	0.0	4109.95	-62.60	-347.93	1.00	353.52			
4150.00	0.00	0.0	4129.95	-62.60	-347.93	0.00	353.52			
4200.00	0.00	0.0	4179.95	-62.60	-347.93	0.00	353.52			
4250.00	0.00	0.0	4229.95	-62.60	-347.93	0.00	353.52			
4300.00	0.00	0.0	4279.95	-62.60	-347.93	0.00	353.52			
4350.00	0.00	0.0	4329.95	-62.60	-347.93	0.00	353.52			
4400.00	0.00	0.0	4379.95	-62.60	-347.93	0.00	353.52			
4450.00	0.00	0.0	4429.95	-62.60	-347.93	0.00	353.52			
4500.00	0.00	0.0	4479.95	-62.60	-347.93	0.00	353.52			
4550.00	0.00	0.0	4529.95	-62.60	-347.93	0.00	353.52			
4600.00	0.00	0.0	4579.95	-62.60	-347.93	0.00	353.52			
4650.00	0.00	0.0	4629.95	-62.60	-347.93	0.00	353.52			
4700.00	0.00	0.0	4679.95	-62.60	-347.93	0.00	353.52			
4750.00	0.00	0.0	4729.95	-62.60	-347.93	0.00	353.52			
4800.00	0.00	0.0	4779.95	-62.60	-347.93	0.00	353.52			
4850.00	0.00	0.0	4829.95	-62.60	-347.93	0.00	353.52			

08-02-D4, Plan 1

Operator	Units feet, %/100ft	10:38 Wednesday, January 09, 2013 Page 4 of 6
Field	County	Vertical Section Azimuth 259.8
Well Name 08-02-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
4900.00	0.00	0.0	4879.95	-62.60	-347.93	0.00	353.52			
4950.00	0.00	0.0	4929.95	-62.60	-347.93	0.00	353.52			
5000.00	0.00	0.0	4979.95	-62.60	-347.93	0.00	353.52			
5050.00	0.00	0.0	5029.95	-62.60	-347.93	0.00	353.52			
5100.00	0.00	0.0	5079.95	-62.60	-347.93	0.00	353.52			
5150.00	0.00	0.0	5129.95	-62.60	-347.93	0.00	353.52			
5200.00	0.00	0.0	5179.95	-62.60	-347.93	0.00	353.52			
5250.00	0.00	0.0	5229.95	-62.60	-347.93	0.00	353.52			
5300.00	0.00	0.0	5279.95	-62.60	-347.93	0.00	353.52			
5350.00	0.00	0.0	5329.95	-62.60	-347.93	0.00	353.52			
5400.00	0.00	0.0	5379.95	-62.60	-347.93	0.00	353.52			
5450.00	0.00	0.0	5429.95	-62.60	-347.93	0.00	353.52			
5500.00	0.00	0.0	5479.95	-62.60	-347.93	0.00	353.52			
5550.00	0.00	0.0	5529.95	-62.60	-347.93	0.00	353.52			
5600.00	0.00	0.0	5579.95	-62.60	-347.93	0.00	353.52			
5650.00	0.00	0.0	5629.95	-62.60	-347.93	0.00	353.52			
5700.00	0.00	0.0	5679.95	-62.60	-347.93	0.00	353.52			
5750.00	0.00	0.0	5729.95	-62.60	-347.93	0.00	353.52			
5800.00	0.00	0.0	5779.95	-62.60	-347.93	0.00	353.52			
5850.00	0.00	0.0	5829.95	-62.60	-347.93	0.00	353.52			
5900.00	0.00	0.0	5879.95	-62.60	-347.93	0.00	353.52			
5950.00	0.00	0.0	5929.95	-62.60	-347.93	0.00	353.52			
6000.00	0.00	0.0	5979.95	-62.60	-347.93	0.00	353.52			
6050.00	0.00	0.0	6029.95	-62.60	-347.93	0.00	353.52			
6100.00	0.00	0.0	6079.95	-62.60	-347.93	0.00	353.52			
6150.00	0.00	0.0	6129.95	-62.60	-347.93	0.00	353.52			
6200.00	0.00	0.0	6179.95	-62.60	-347.93	0.00	353.52			
6250.00	0.00	0.0	6229.95	-62.60	-347.93	0.00	353.52			
6300.00	0.00	0.0	6279.95	-62.60	-347.93	0.00	353.52			
6350.00	0.00	0.0	6329.95	-62.60	-347.93	0.00	353.52			
6400.00	0.00	0.0	6379.95	-62.60	-347.93	0.00	353.52			
6450.00	0.00	0.0	6429.95	-62.60	-347.93	0.00	353.52			
6500.00	0.00	0.0	6479.95	-62.60	-347.93	0.00	353.52			
6550.00	0.00	0.0	6529.95	-62.60	-347.93	0.00	353.52			
6600.00	0.00	0.0	6579.95	-62.60	-347.93	0.00	353.52			

08-02-D4, Plan 1

Operator	Units feet, %/100ft	10:38 Wednesday, January 09, 2013 Page 5 of 6
Field	County	Vertical Section Azimuth 259.8
Well Name 08-02-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6629.95	-62.60	-347.93	0.00	353.52			
6700.00	0.00	0.0	6679.95	-62.60	-347.93	0.00	353.52			
6750.00	0.00	0.0	6729.95	-62.60	-347.93	0.00	353.52			
6800.00	0.00	0.0	6779.95	-62.60	-347.93	0.00	353.52			
6850.00	0.00	0.0	6829.95	-62.60	-347.93	0.00	353.52			
6900.00	0.00	0.0	6879.95	-62.60	-347.93	0.00	353.52			
6950.00	0.00	0.0	6929.95	-62.60	-347.93	0.00	353.52			
7000.00	0.00	0.0	6979.95	-62.60	-347.93	0.00	353.52			
7050.00	0.00	0.0	7029.95	-62.60	-347.93	0.00	353.52			
7100.00	0.00	0.0	7079.95	-62.60	-347.93	0.00	353.52			
7150.00	0.00	0.0	7129.95	-62.60	-347.93	0.00	353.52			
7200.00	0.00	0.0	7179.95	-62.60	-347.93	0.00	353.52			
7250.00	0.00	0.0	7229.95	-62.60	-347.93	0.00	353.52			
7300.00	0.00	0.0	7279.95	-62.60	-347.93	0.00	353.52			
7350.00	0.00	0.0	7329.95	-62.60	-347.93	0.00	353.52			
7400.00	0.00	0.0	7379.95	-62.60	-347.93	0.00	353.52			
7450.00	0.00	0.0	7429.95	-62.60	-347.93	0.00	353.52			
7500.00	0.00	0.0	7479.95	-62.60	-347.93	0.00	353.52			
7550.00	0.00	0.0	7529.95	-62.60	-347.93	0.00	353.52			
7600.00	0.00	0.0	7579.95	-62.60	-347.93	0.00	353.52			
7650.00	0.00	0.0	7629.95	-62.60	-347.93	0.00	353.52			
7700.00	0.00	0.0	7679.95	-62.60	-347.93	0.00	353.52			
7750.00	0.00	0.0	7729.95	-62.60	-347.93	0.00	353.52			
7800.00	0.00	0.0	7779.95	-62.60	-347.93	0.00	353.52			
7850.00	0.00	0.0	7829.95	-62.60	-347.93	0.00	353.52			
7900.00	0.00	0.0	7879.95	-62.60	-347.93	0.00	353.52			
7950.00	0.00	0.0	7929.95	-62.60	-347.93	0.00	353.52			
8000.00	0.00	0.0	7979.95	-62.60	-347.93	0.00	353.52			
8050.00	0.00	0.0	8029.95	-62.60	-347.93	0.00	353.52			
8100.00	0.00	0.0	8079.95	-62.60	-347.93	0.00	353.52			
8150.00	0.00	0.0	8129.95	-62.60	-347.93	0.00	353.52			
8200.00	0.00	0.0	8179.95	-62.60	-347.93	0.00	353.52			
8250.00	0.00	0.0	8229.95	-62.60	-347.93	0.00	353.52			
8300.00	0.00	0.0	8279.95	-62.60	-347.93	0.00	353.52			
8350.00	0.00	0.0	8329.95	-62.60	-347.93	0.00	353.52			

08-02-D4, Plan 1

Operator	Units feet, %/100ft	10:38 Wednesday, January 09, 2013 Page 6 of 6
Field	County	Vertical Section Azimuth 259.8
Well Name 08-02-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

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

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
8400.00	0.00	0.0	8379.95	-62.60	-347.93	0.00	353.52			
8450.00	0.00	0.0	8429.95	-62.60	-347.93	0.00	353.52			
8500.00	0.00	0.0	8479.95	-62.60	-347.93	0.00	353.52			
8550.00	0.00	0.0	8529.95	-62.60	-347.93	0.00	353.52			
8600.00	0.00	0.0	8579.95	-62.60	-347.93	0.00	353.52			
8650.00	0.00	0.0	8629.95	-62.60	-347.93	0.00	353.52			
8700.00	0.00	0.0	8679.95	-62.60	-347.93	0.00	353.52			
8750.00	0.00	0.0	8729.95	-62.60	-347.93	0.00	353.52			
8800.00	0.00	0.0	8779.95	-62.60	-347.93	0.00	353.52			
8850.00	0.00	0.0	8829.95	-62.60	-347.93	0.00	353.52			
8900.00	0.00	0.0	8879.95	-62.60	-347.93	0.00	353.52			
8950.00	0.00	0.0	8929.95	-62.60	-347.93	0.00	353.52			
*** RTD (at MD = 8971.00)										
8971.00	0.00	0.0	8950.95	-62.60	-347.93	0.00	353.52			

T4S, R4W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

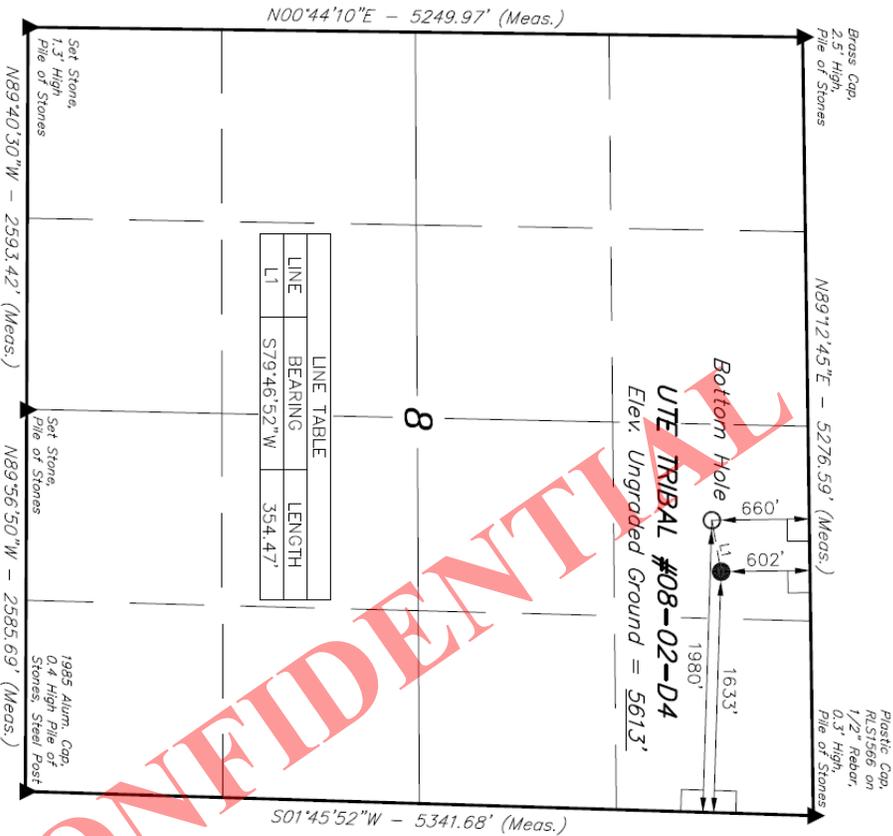
Well location, UTE TRIBAL #08-02-D4, located as shown in the NW 1/4 NE 1/4 of Section 8, T4S, R4W, U.S.B.&M, Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESE SE, QUADRANGLE, UTAH, DUCHESE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

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

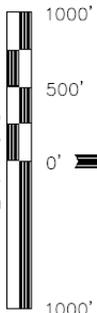


LINE	BEARING	LENGTH
L1	S79°46'52\"W	354.47'

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'13.21\" (40.153669)	LATITUDE = 40°09'13.83\" (40.153842)
LONGITUDE = 110°21'31.23\" (110.358681)	LONGITUDE = 110°21'26.76\" (110.357433)
NAD 27 (SURFACE LOCATION)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'13.36\" (40.153711)	LATITUDE = 40°09'13.98\" (40.153883)
LONGITUDE = 110°21'28.69\" (110.357669)	LONGITUDE = 110°21'24.21\" (110.356725)



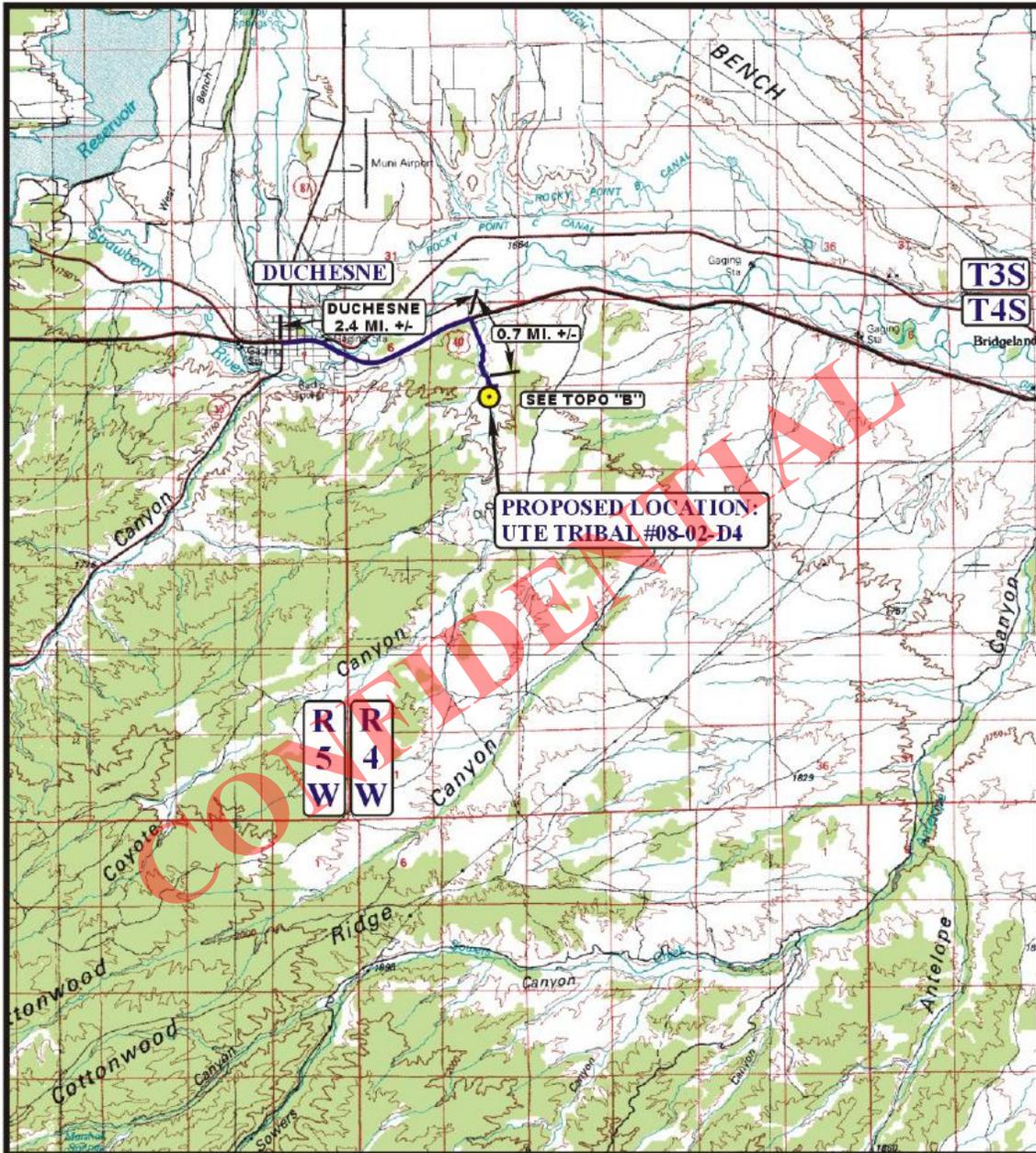
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE BEARINGS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	01-04-12	DATE DRAWN:	02-06-12
PARTY	A.F. J.M. H.K.W.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	PETROGLYPH OPERATING CO., INC.		



LEGEND:

● PROPOSED LOCATION



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #08-02-D4
SECTION 8, T4S, R4W, U.S.B.&M.
602' FNL 1633' FEL

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

01 MONTH	05 DAY	12 YEAR	
SCALE: 1:100,000 DRAWN BY: A.T. REVISED: 00-00-00			

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

July 1, 2012

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

Re: Directional Drilling R649-3-11

Ute Tribal 08-02-D4: 602' FNL & 1633' FEL, NW/4NE/4, SEC. 8, (Surface Hole)
660' FNL & 1980' FEL, NW/4NE/4, Sec. 8, (Bottom Hole)
T4S, R4W, U.S.B.&M., Duchesne County, Utah

Dear Ms. Mason,

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

- The Ute Tribal 08-02-D4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Respectfully Submitted,

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

Certification

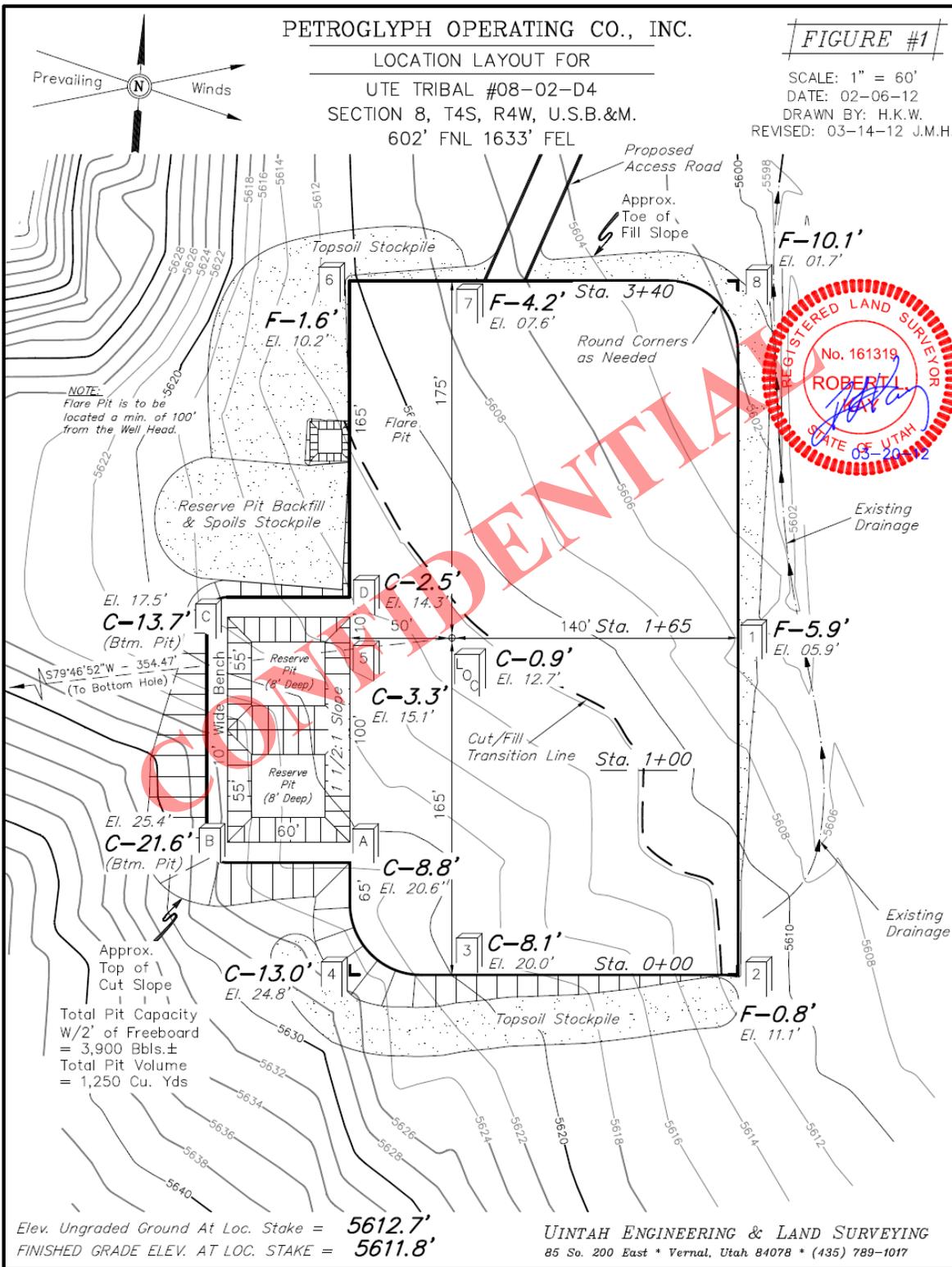
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with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

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 08-02-D4 Well, located in NW/NE of Section 8, T4S, R4W, Duchesne County, Utah, lease #1-109-IND-5351**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LP4138153.

Date

Agent

CONFIDENTIAL



WHEN RECORDED, MAIL TO

COORS ENERGY COMPANY

P. O. BOX 467

GOLDEN, COLORADO 80401

ENTRY NO. 271943 DATE 8-7-89 TIME 8:57 AM BOOK M2235 PAGE 700 208
 FEE \$ 20⁰⁰ RECORDED AT REQUEST OF Coors Energy Co
Carolyn Madson DUCHESNE COUNTY RECORDER DEPUTY
 AGREEMENT

THIS AGREEMENT, made and entered into on April 26th, 1989, by and between E. Lee Friedrich ("Friedrich"), Emil L. Friedrich and Jacquelyn M. Friedrich and their successors in interest as trustees for the Friedrich Family Revocable Trust dated February 15, 1988 (the "Trustees"), and Coors Energy Company, a Colorado corporation ("Coors"), witnesseth that:

RECITALS:

A. The Trustees acquired from Friedrich by Individual Quitclaim Deed dated February 15, 1988, and recorded in Book A167 at page 62 of the records of Duchesne County, Utah, ownership of the lands described in Exhibit A attached to and made part of this Agreement (the "Subject Lands"), subject however to the exception and reservation of the oil and gas and shale or other rock valuable as a source of petroleum and nitrogen therein, and the rights to prospect for, mine, and remove the same in accordance with the provisions of the Act of July 17, 1914 (30 U.S.C. §§ 121-123);

B. Some parts of the Subject Lands are covered by that certain Oil and Gas Mining Lease - Tribal Indian Lands, No. I-109-IND-5351, dated October 20, 1949 (the "Lease"), and the Lessee's interest thereunder has been assigned to and is owned by Coors;

C. Coors and Friedrich are respectively the plaintiff and defendant in two actions pending in the United States District Court for the District of Utah (both styled Coors Energy Company, a Corporation, Plaintiff, vs. E. Lee Friedrich, Defendant, being No. C 88-41S and No. C 88-295S) which describe portions of the Subject Lands and affect the parties' rights therein;

D. Coors has completed four oil and gas wells within the Subject Lands, and has constructed access roads, drillsites, and related production facilities, and it proposes further oil and gas exploration and development within the Subject Lands under the Lease or under other oil and gas leases which it may acquire covering portions thereof;

AGREEMENT:

NOW, THEREFORE, it is agreed as follows:

1. In consideration of the mutual benefits set forth herein, Friedrich and the Trustees hereby confirm, extend, and grant to Coors and its successors and assigns the easements and rights to enter and occupy so much of the surface of the Subject Lands as may be required for all purposes reasonably incident to the exploration, development and production of the minerals leased to Coors, including exploration by seismic or geophysical or other methods and the right to drill, construct, maintain and use upon, within, and over said Subject Lands all oil wells, gas wells, derricks, machinery, tanks, boilers,

engines, pipe, power and telephone lines, roadways, and, without limitation by reason of the foregoing enumeration, any and all other structures, equipment, fixtures, appurtenances, or facilities necessary or convenient in prospecting and developing for, producing, storing, transporting and marketing oil, gas, and associated hydrocarbon substances, under or produced from any lands leased to Coors.

2. Coors agrees to pay to the Trust and Trustees and Friedrich agrees to accept as complete compensation and damages the following:

(a) \$10,000.00 for damages for the existing four wellsites, the rights-of-way to said wellsites, and the use of all existing roads which traverse the Subject Lands, payable as provided in paragraph 4.

(b) At least 10 days prior to commencing construction, \$1,500.00 for damages to wellsite lands for each well Coors may in the future elect to drill within the Subject Lands (which wellsite lands shall not exceed three acres each);

(c) At least ten days prior to commencing construction, \$8.00 per rod for any right-of-way across the Subject Lands Coors believes to be necessary for future exploration, development or production of oil, gas and associated hydrocarbons from lands leased to Coors (not to exceed a 50 foot construction right-of-way and a 30 foot permanent right-of-way); and

(d) \$500.00 per mile for damages caused for any seismic lines shot across the Subject Lands.

Coors further agrees that should the Trustees or Friedrich hereafter obtain the required governmental approvals for the development and marketing of a subdivision within the Subject Lands, the Trustees or Friedrich may, at their expense, require Coors to reroute rights of way for road or pipeline purposes. The Trustees and Friedrich agree not to require such rerouting unreasonably, and not to put Coors to operating inefficiencies or any other cost, direct or indirect.

3. Except for the payments set forth in Section 2, the Trust and Friedrich shall not be entitled to any other or additional payments or damages as the result of the conduct by Coors of operations upon the Subject Lands.

4. The parties agree that each of them will, through counsel of record, stipulate to the dismissals of the suits described in Recital C. Such stipulation shall agree to the final dismissal of all claims and counterclaims with prejudice, neither party to recover costs, and to the recall of the injunctions issued therein and to the termination of the security given therefor. The parties will jointly move the Court for its orders approving and implementing such stipulation. The \$10,000 due from Coors by reason of Section 2(a) shall be payable upon the court's entry of such orders.

5. Coors agrees to conduct all operations hereunder in a good and workmanlike manner and shall maintain each drill site in a condition that is reasonably clean and free of debris. It shall bury all pipelines

below plow depth where such lines cross cultivated lands, and shall construct gates or at its option install cattle guards where necessary for crossing fenced land in connection with operations and, where an election has been made to construct gates in lieu of cattle guards, keep such gates in repair and closed. When any facility constructed hereunder is abandoned, Coors shall clean up and restore the property in accordance with all Bureau of Land Management requirements and good operating practice.

6. Subject to the provisions of Section 8, it is agreed that the covenants in Section 2 hereof shall be covenants running with the surface ownership of the Subject Lands and shall not be held or transferred separately therefrom.

7. This Agreement shall be effective and continue during the term of the Lease, any replacement lease, and any other oil and gas lease currently owned by Coors or acquired by Coors within three years from the date hereof and covering ground within the Subject Lands. Notwithstanding the foregoing, this Agreement as it pertains to damages for future operations upon the Subject Land shall terminate upon final approval by the Duchesne County Board of County Commissioners of a plan to subdivide the Subject Lands, but only as to so much of the Subject lands as may be included in such approved plan. Coors shall not thereafter build any above-ground pipeline within any such subdivision and will upon request bury any existing line within any such subdivision.

8. Subject to the provisions of Section 6 hereof, this Agreement shall inure to the benefit of and be binding upon the parties and their respective heirs, executors, administrators, successors and assigns.

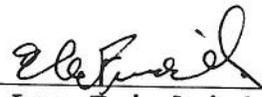
9. The Trust and Friedrich represent and agree with Coors that they are vested with all such title and authority as to enable them to execute and deliver this agreement and that no joinder or consent is required of any other person or entity by reason of rights of dower, security

interests, surface leases for other purposes, or any other interest or claimed interest in the Subject Lands.

10. As new wells are located anywhere within the Subject Lands, and before drilling commences, Coors shall provide the Trustees with a legal description of the wellsite.

11. Coors agrees to indemnify and save harmless Friedrich and the Trustees from and against all claims, suits, damages, costs, losses, and expenses, including legal fees, in any manner resulting from or arising out of its operations hereunder; and Friedrich and the Trustees agree severally to indemnify and save harmless Coors from and against all claims, suits, damages, costs, losses, and expenses, including legal fees, in any manner resulting from or arising out of their respective acts or omissions in respect to the Subject Lands.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.



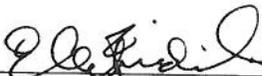
E. Lee Friedrich

COORS ENERGY COMPANY

By 

Its Authorized Officer

FRIEDRICH FAMILY REVOCABLE TRUST
dated February 15, 1988



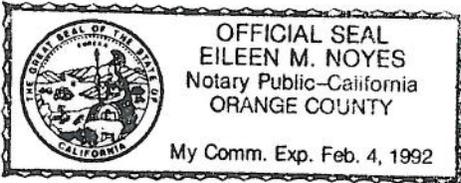
Trustee

E Lee Friedrich

Trustee

STATE OF California)
) : ss.
COUNTY OF Orange)

On this 24th day of ~~April~~ ^{MAY}, 1989, personally appeared before me E. Lee Friedrich, the signer of the within instrument who duly acknowledged to me that he executed the same.



Eileen M. Noyes

NOTARY PUBLIC

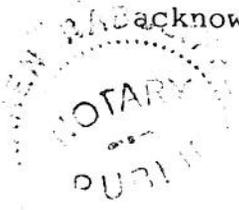
Residing in: 4520 Barranca Parkway
IRVINE, CA 92714

My Commission Expires:

2/4/92

STATE OF COLORADO)
) : ss.
COUNTY OF JEFFERSON)

On the 25th day of April, 1989, personally appeared before me A.A. Phillips, who being by me duly sworn did say that he the said PRESIDENT is an Authorized Officer of Coors Energy Company and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors, and said A.A. Phillips duly acknowledged to me that said corporation executed the same.



Karen Ladcliffe
NOTARY PUBLIC

Residing in: 14012 DENVER WEST
GOLDEN, CO. 80401 PRUDY.

My Commission Expires:

3/14/92

STATE OF California)
 : ss.
COUNTY OF Orange)

On the 13th day of ~~April~~ June, 1989, personally appeared before me E. Lee Friedrich and ~~XXXXXXXXXXXXXX~~, who being by me duly sworn did say that they are Trustees of the Friedrich Family Revocable Trust and that the within and foregoing instrument was signed in behalf of said Friedrich Family Revocable Trust and ~~XXXXXXXXXXXXXX~~ and ~~XXXXXXXXXXXXXX~~ duly acknowledged to me that said Friedrich Family Revocable Trust executed the same.

Eileen M. Noyes
NOTARY PUBLIC
Residing in: IRVINE, CA 92714

My Commission Expires:
Feb. 4, 1992

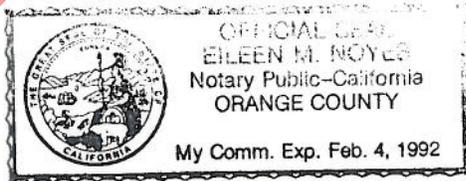


Exhibit A attached to and
part of Agreement dated
April 26, 1989
(Friedrich/Trustees of
Friedrich Trust/Coors
Energy)

The subject lands are situated in Duchesne County,
Utah, and are more particularly described as follows:

Township 4 South, Range 4 West, U.S.M.

- Section 4: Lots 2 and 3, S 1/2 NW 1/4, SW 1/4, SW 1/4 NE 1/4,
W 1/2 SE 1/4, and all that portion of Lot 4 lying
South of Highway 40; containing 470 acres, more or
less.
- Section 5: S 1/2, containing 320 acres.
- Section 6: S 1/2 SE 1/4, containing 80 acres.
- Section 7: Lots 1, 2, 3, 4 and 5, and all of the remainder of
the N 1/2 (alternatively described as Lots 1, 2,
3, 4 and 5, SE 1/4 NW 1/4, S 1/2 NE 1/4),
containing 313.71 acres.
- Section 8: N 1/2, SE 1/4, E 1/2 SW 1/4, containing 560 acres.
- Section 9: W 1/2, containing 320 acres.
- Section 16: NW 1/4; N 1/2 SW 1/4, containing 240 acres.
- Section 17: E 1/2 NW 1/4, S 1/2, NE 1/4, containing 560 acres.
- Section 18: E 1/2 SW 1/4, SE 1/4, containing 240 acres.
- Section 19: Lots 1 and 2, E 1/2 NW 1/4, NE 1/4, containing
318.61 acres.
- Section 20: E 1/2, E 1/2 W 1/2, W 1/2 NW 1/4, containing 560
acres.

Containing approximately 4,000.00 acres.

ENTRY NO. 271942 DATE 8-7-89 TIME 8:52 AM BOOK ME 235 PAGE 697-699
FEE \$ 1400 RECORDED AT REQUEST OF Coors Energy Co
Carlisle Mader DUCHESNE COUNTY RECORDER DEPUTY

WHEN RECORDED, MAIL TO:

COORS ENERGY COMPANY

P. O. BOX 467

GOLDEN, COLORADO 80401

Space above for Recorder's Use

RATIFICATION AND JOINDER

KNOW ALL MEN BY THESE PRESENTS that

For a valuable consideration the sufficiency of which is hereby acknowledged, the undersigned Emil L. Friedrich and Jacquelyn M. Friedrich do hereby ratify, join in, and adopt that certain Agreement dated as of June 26, 1989 by and between the parties designated therein as "Friedrich," the "Trustees," and "Coors," covering lands, situated in Duchesne County, Utah described in Exhibit A attached hereto and in the said Agreement. The undersigned declare and agree for themselves severally and, as Trustees thereof, for the Friedrich Family Revocable Trust dated February 15, 1988, that said Agreement in all of its terms and provisions is binding on each of them and upon the said Trust and is valid and subsisting in accordance with its terms, and that subject to the terms and conditions of said Agreement the undersigned grant and confirm to Coors Energy Company, a Colorado corporation, all the rights and easements stated therein.

DATED July 20 1989, 1989.

Emil L. Friedrich
Emil L. Friedrich, personally and as Trustee as aforesaid

Exhibit A attached to and part of Agreement dated as of June 26, 1989 (Friedrich/Trustees of Friedrich Trust/Coors Energy), and to Ratification and Joinder.

The subject lands are situated in Duchesne County, Utah, and are more particularly described as follows:

Township 4 South, Range 4 West, U.S.M.

- Section 4: Lots 2 and 3, S 1/2 NW 1/4, SW 1/4, SW 1/4 NE 1/4, W 1/2 SE 1/4, and all that portion of Lot 4 lying South of Highway 40; containing 470 acres, more or less.
- Section 5: S 1/2, containing 320 acres.
- Section 6: S 1/2 SE 1/4, containing 80 acres.
- Section 7: Lots 1, 2, 3, 4 and 5, and all of the remainder of the N 1/2 (alternatively described as Lots 1, 2, 3, 4 and 5, SE 1/4 NW 1/4, S 1/2 NE 1/4), containing 313.71 acres.
- Section 8: N 1/2, SE 1/4, E 1/2 SW 1/4, containing 560 acres.
- Section 9: W 1/2, containing 320 acres.
- Section 16: NW 1/4; N 1/2 SW 1/4, containing 240 acres.
- Section 17: E 1/2 NW 1/4, S 1/2, NE 1/4, containing 560 acres.
- Section 18: E 1/2 SW 1/4, SE 1/4, containing 240 acres.
- Section 19: Lots 1 and 2, E 1/2 NW 1/4, NE 1/4, containing 318.61 acres.
- Section 20: E 1/2, E 1/2 W 1/2, W 1/2 NW 1/4, containing 560 acres.

Containing approximately 4,000.00 acres.

Drainage Diversion Required? Y

Divert any portion drainages along western slopes north around location

Berm Required? Y**Erosion Sedimentation Control Required? Y**

Silt fence might be necessary to prevent sediment from washing down into dry wash during run off or storm periods, if so along the east and northeast side of location only

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N**Reserve Pit**

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet)	100 to 200 5
Distance to Surface Water (feet)	>1000 0
Dist. Nearest Municipal Well (ft)	>5280 0
Distance to Other Wells (feet)	>1320 0
Native Soil Type	High permeability 20
Fluid Type	Fresh Water 5
Drill Cuttings	Normal Rock 0
Annual Precipitation (inches)	0
Affected Populations	
Presence Nearby Utility Conduits	Present 15
	Final Score 45 1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit off the west side of location in cut, measuring 100' long by 60' wide by 8' deep.

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

Previous landowner agreement in place, existing fresh water supply line along the length of the proposed location just inside corners number 8, 1, and 2. Heavy equipment and production tanks should be west of this line plus fill will be added placing that line ten or more feet deep. Divert drainages along western slopes north and around location.

Dennis Ingram
Evaluator5/13/2013
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6281	43013515390000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD	Duchesne Land LC	
Well Name	Ute Tribal 08-02-D4		Unit		
Field	DUCHESNE		Type of Work	DRILL	
Location	NWNE 8 4S 4W U 602 FNL 1633 FEL GPS Coord (UTM) 554737E 4445036N				

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

5/16/2013
Date / Time

Surface Statement of Basis

A presite was scheduled and completed for the Ute Tribal 08-02-D4 to take input and address issues regarding the construction and use of this proposed well pad. Joe Steed is shown as the landowner of record and was therefore invited to the presite visit. A previous landowner agreement is in place between Petroglyph Operating and the prior landowner. Mr. Steed's only concerns were regarding the buried water line along the eastern portion of this new location as it supplies fresh drinking water to all of the residents in this area. The weight of the rig and heavy equipment will not sit over this line, and Petroglyph agreed to place their production tanks and facility along the western portion so this line can be serviced if the need should arise.

The proposed reserve pit is planned immediately off the western portion of the well pad in cut, with the spoils piles and storage north of that and just off the surface. That pit shall be lined with a 16 mil synthetic liner to prevent migration of drilling fluids into potential ground waters. Diversion berms or ditches along the western side of this location shall be constructed and maintained to divert any storm water or run off northerly and around the well site. An existing, dry drainage at the bottom of Coyote Canyon is found immediately east of this proposed wellsite, and sediment and erosion will most likely push solids from the fill down into that wash. The operator shall install a silt fence below the fill slope and down the eastern side of this pad to prevent migration of materials into that wash. The fencing should be installed below corners 2, 1, and wrapped around corner number 8.

Dennis Ingram
Onsite Evaluator

5/13/2013
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	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	Silt fencing below the eastern slope of the fill to prevent migration of solids into dry wash bed.

Surface The well site shall be bermed to prevent fluids from leaving the pad.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/2/2012

API NO. ASSIGNED: 43013515390000

WELL NAME: Ute Tribal 08-02-D4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: NWNE 08 040S 040W

Permit Tech Review:

SURFACE: 0602 FNL 1633 FEL

Engineering Review:

BOTTOM: 0660 FNL 1980 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.15390

LONGITUDE: -110.35731

UTM SURF EASTINGS: 554737.00

NORTHINGS: 4445036.00

FIELD NAME: DUCHESNE

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1-109-IND-5351

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

LOCATION AND SITING:

- 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

 R649-2-3.

Unit:

 R649-3-2. General R649-3-3. Exception Drilling Unit

Board Cause No: Cause 139-54

Effective Date: 12/4/1986

Siting: 400' From Quarter Section Boundary

 R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 08-02-D4

API Well Number: 43013515390000

Lease Number: 1-109-IND-5351

Surface Owner: FEE (PRIVATE)

Approval Date: 5/22/2013

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 139-54. 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

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.

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

Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

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

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

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: 1-109-IND-5351	
		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 08-02-D4	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		9. API NUMBER: 43013515390000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0602 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 08 Township: 04.0S Range: 04.0W Meridian: U		9. FIELD and POOL or WILDCAT: DUCHESNE	
		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: 5/1/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input 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 05/01/2014.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 13, 2014			
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A		DATE 5/12/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351
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 08-02-D4
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013515390000
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: 0602 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 08 Township: 04.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: DUCHESNE 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: 9/11/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map. ----Authorization: Board Cause 139-107----DKD

Approved by the
October 07, 2014
Oil, Gas and Mining

Date: _____
By: Derek Quist

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 9/11/2014	

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

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

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

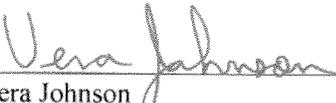
Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 1-109-IND-5351:

UTE TRIBAL 08-02-D4

This Affidavit is made in accordance with Utah’s Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc., has provided notice to the owner of contiguous oil and gas leases or drilling units overlying the pool for the aforementioned well to the party below:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

Petroglyph Energy, Inc.


Vera Johnson

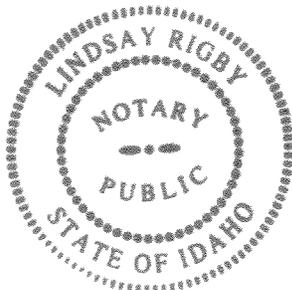
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 11th day of September, 2014, by Vera Johnson.

Witness my hand and official seal.


Notary Public

(SEAL)



PETROGLYPH

EXECUTIVE OFFICES



VIA U.S. MAIL DELIVERY

September 10, 2014

Newfield Production Company / Newfield Exploration Company
Atten: Travis Lindsey
1001 17th Street, Suite 2000
Denver, CO 80202

UTE TRIBAL 08-02-D4

UTE TRIBAL 08-04-D4

Mr. Lindsey:

Petroglyph Operating Company, Inc., is submitting an Application to Commingle from the Wasatch and Green River formations in the referenced wells.

In accordance with State of Utah Division of Oil, Gas and Mining R649-3-22 regarding completion into two or more pools, Petroglyph hereby provides written notice to Newfield Exploration Company/Newfield Production Company of the submission.

Please see enclosed copies of the Application to Commingle for each of the referenced wells.

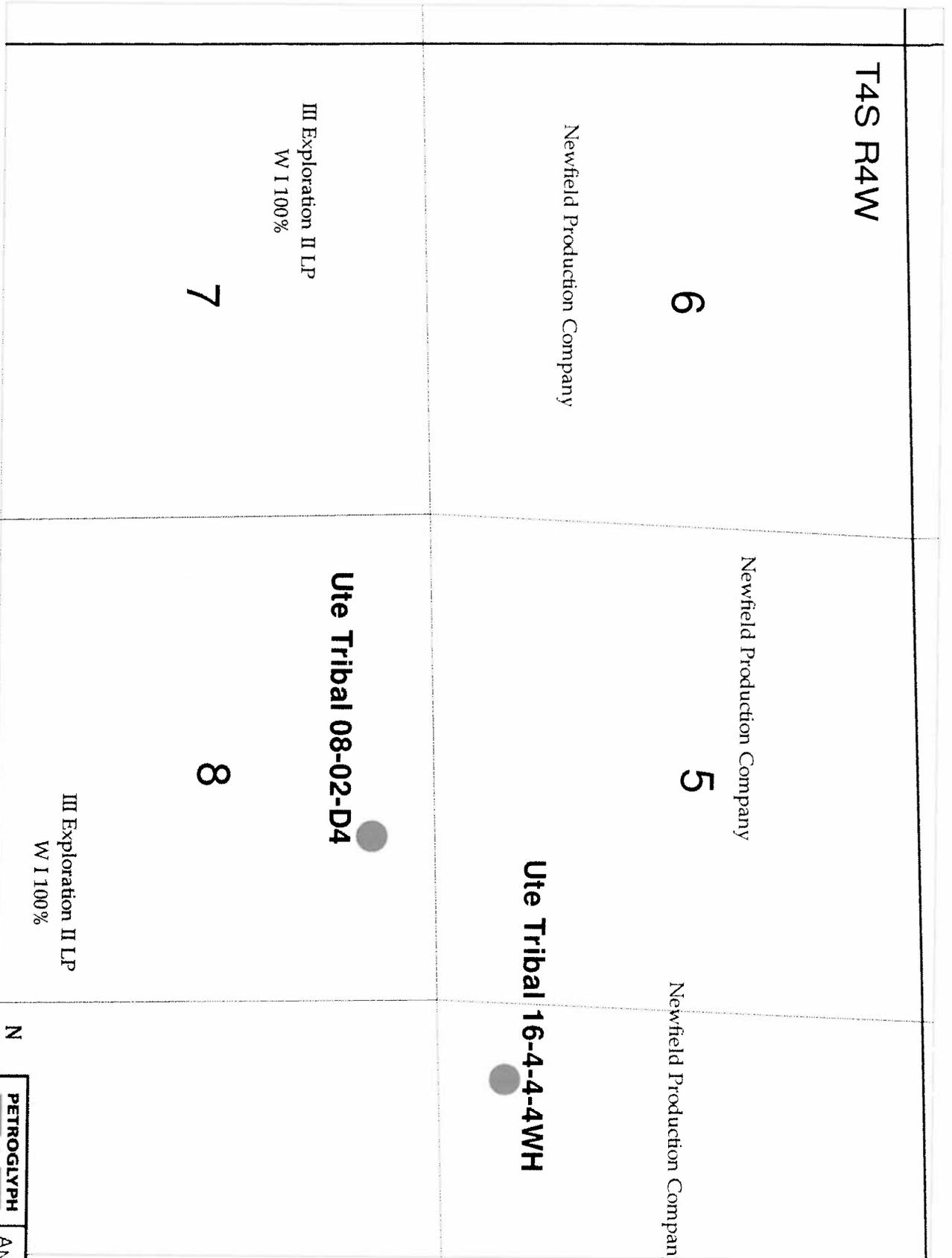
Please contact me at (208) 685-9711 if any questions.

Best Regards,

A handwritten signature in black ink, appearing to read 'Nicole Colby', with a long horizontal line extending to the right.

Nicole Colby
Manager, Land and Regulatory Compliance

PETROGLYPH ENERGY, INC.



1 inch = 1500 feet

N

	ANTELOPE CREEK DUCHESNE COUNTY, UTAH
	Application for Commingling Ute Tribal 08-02-D4
<small>DATE OF FILING</small> JG 5-8-99-14	<small>THIS DOCUMENT IS NOT VALID FOR FILING IN ANY OTHER COUNTY</small> <small>FOR FILING INFORMATION, CONTACT THE PUBLIC RECORDS DIVISION AT 360-202-2400</small>

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: 1-109-IND-5351
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 08-02-D4	
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013515390000	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: DUCHESNE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0602 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 08 Township: 04.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/21/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Please see attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 08, 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 I-109-IND-5351
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:
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		8. WELL NAME and NUMBER Ute Tribal 08-02-D4
3. ADDRESS OF OPERATOR P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		9. API NUMBER: 4301351539
4. LOCATION OF WELL FOOTAGES AT SURFACE: 602' FNL 1633' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 8 4S 4W U		10. FIELD AND POOL, OR WILDCAT: Antelope Creek COUNTY: Duchesne STATE: UTAH
5. PHONE NUMBER: (435) 722-2531		

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: 5/21/2014	<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 4/18/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 280'. On 4/23/2014 we then perforated the following: 8640-8912, 8344-8591, 8099-8312, 7817-8036, 7501-7752, 7218-7442. These intervals were perforated in 1' guns every +/- 15' using 3-1/2" guns cont. 22.7 gram charges, 0.42" EHD @ 3 spf @ 120* Phased. Intervals 6967-7197, 6638-6955, 5871-6131, 5605-07, 5571-72, 5605-07 & 5579-81 were perf'd in the same fashion but @ 4 Spf. Interval 5374-83 was perforated at 4 spf with a 9' gun. We isolated and fracture treated the following intervals:
 8,640'-8,912': 1,091 Bbbs of fluid containing 101,300#'s of sand,
 8,344'-8,591': 1,070 Bbbs of fluid containing 101,100#'s of sand,
 8,099'-8,312': 833 Bbbs of fluid containing 82,350#'s of sand,
 7,817'-8,036': 1,426 Bbbs of fluid containing 101,000#'s of sand,
 7,501'-7,752': 1,424 Bbbs of fluid containing 111,000#'s of sand,
 7,218'-7,442': 1,445 Bbbs of fluid containing 100,000#'s of sand,
 6,967'-7,197': 1,347 Bbbs of fluid containing 101,500#'s of sand, 6,638'-6,955': 1,330 Bbbs fluid containing 100,300#'s of sand,
 5,871'-6,131': 1,316 Bbbs of fluid containing 102,000#'s of sand & 5,374'-5,607': 655 Bbbs of fluid containing 43,600#'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 Ottawa Sand. All plugs were drilled out and cleaned out to PBTD, 8,137'. The well was flowed back for a short time then, then a pump was run on 5/21/2014 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

<p>1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____</p> <p>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 _____</p>	<p>5. LEASE DESIGNATION AND SERIAL NUMBER: I-109-IND-535</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe</p> <p>7. UNIT or CA AGREEMENT NAME</p> <p>8. WELL NAME and NUMBER: Ute Tribal 08-02-D4</p>
---	--

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	9. API NUMBER 4301351539
---	--------------------------------	-----------------------------

4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 602' FNL, 1633' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 633' FNL, 1830' FEL AT TOTAL DEPTH: 703' FNL 1894' FEL	10. FIELD AND POOL, OR WILDCAT Duchesne
--	--

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 8 4S 4W U	12. COUNTY Duchesne
	13. STATE UTAH

14. DATE SPUDED: 2/19/2014	15. DATE T.D. REACHED: 3/26/2014	16. DATE COMPLETED: 5/21/2014	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5625' RKB
-------------------------------	-------------------------------------	----------------------------------	------------------------------------	--	--

18. TOTAL DEPTH: MD 9,027 TVD 9,019	19. PLUG BACK T.D.: MD 8,937 TVD 8,899	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				0	Conductor
12.25	9.625 J-55	36	0	2,706		G 540	236	0	
8.75	5.5 P11	17	0	9,002		G 2,100	548	280'	

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	8,691							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Wasatch	7,501	8,912	7,494	8,905	7,501 8,912	0.42	237	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) Basal Carbonate	7,218	7,442	7,211	7,435	7,218 7,442	0.42	48	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C) Green River	5,374	7,197	5,370	7,190	5,374 7,197	0.42	224	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
7,501'-8,912'	5,844 Bbls of Delta 140 18# Gelled Fluid Containing 496,750#'s of 20/40 Mesh Ottawa Sand.
7,218'-7,442'	1,445 Bbls of Delta 140 18# Gelled Fluid Containing 100,000#'s of 20/40 Mesh Ottawa Sand.
5,374'-7,197'	4,648 Bbls of Delta 140 18# Gelled Fluid Containing 347,400#'s of 20/40 Mesh Ottawa 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: DOGM Form 7	

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/1/2014		TEST DATE: 5/27/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 102	GAS – MCF: 135	WATER – BBL: 247	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 75	CSG. PRESS. 70	API GRAVITY 49.20	BTU – GAS 1	GAS/OIL RATIO 1,324	24 HR PRODUCTION RATES: →	OIL – BBL: 102	GAS – MCF: 135	WATER – BBL: 247	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)
				Trona	3,704
				Mahogany	3,892
				Garden Gulch	4,700
				B Marker	5,183
				X Marker	5,655
				Douglas Creek	5,797
				B Lime	6,263
				Castle Peak	6,841
				Basal Carbonate	7,188
				Wasatch	7,486

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 Juardo TITLE Regulatory Compliance Specialist
 SIGNATURE  DATE 10/27/2014

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



Job Number: UT141412
 Company: Petroglyph
 Lease/Well: Ute Tribal 08-02-D4
 Location: Section 8, T4S, R4W
 Rig Name: Capstar 334
 RKB:
 G.L. or M.S.L.: 5,612.0

State/Country: UT/ USA
 Declination: 11.08
 Grid: True
 File name: C:\WINSERVE\UT141412.SVY
 Date/Time: 26-Mar-14 / 12:55
 Curve Name: Ute Tribal_08-02-D4_Actual

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 259.80
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	CLOSURE			Dogleg Severity Deg/100	
				N-S FT	E-W FT	Vertical Section FT		Distance FT
.00	.00	.00	.00	.00	.00	.00	.00	.00
106.00	.18	301.82	106.00	.09	.14	.12	.17	301.82
199.00	.31	279.38	199.00	.21	.51	.47	.55	291.83
291.00	.44	260.16	291.00	.19	-1.11	1.06	1.12	279.54
383.00	.62	252.38	382.99	-.03	-1.93	1.90	1.93	269.26
476.00	.70	240.43	475.99	-.46	-2.90	2.94	2.94	261.04
568.00	.75	247.86	567.98	-.96	-3.95	4.06	4.07	256.31
661.00	1.36	255.11	660.96	-1.47	-5.58	5.75	5.77	255.20
753.00	2.29	257.57	752.92	-2.15	-8.43	8.68	8.70	255.69
845.00	2.80	250.50	844.82	-3.30	-12.34	12.73	12.78	255.05

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		
938.00	2.90	254.00	937.71	-4.70	-16.75	17.31	17.39	254.31	.22	
1059.00	2.50	256.70	1058.58	-6.15	-22.26	23.00	23.09	254.54	.35	
1150.00	2.20	263.50	1149.50	-6.81	-25.92	26.72	26.80	255.28	.45	
1242.00	2.40	257.40	1241.42	-7.43	-29.56	30.41	30.48	255.89	.34	
1334.00	2.60	256.30	1333.34	-8.34	-33.47	34.41	34.49	256.00	.22	
1425.00	2.40	262.60	1424.25	-9.08	-37.36	38.38	38.45	256.34	.37	
1516.00	2.30	271.00	1515.17	-9.29	-41.08	42.07	42.11	257.25	.39	
1608.00	2.70	258.80	1607.09	-9.68	-45.05	46.05	46.08	257.87	.72	
1699.00	2.70	255.90	1697.99	-10.62	-49.23	50.33	50.36	257.83	.15	
1790.00	3.00	250.00	1788.87	-11.95	-53.54	54.82	54.86	257.41	.46	
1881.00	2.90	240.10	1879.75	-13.92	-57.78	59.33	59.43	256.46	.57	
1973.00	2.90	237.00	1971.64	-16.34	-61.75	63.67	63.87	255.17	.17	
2064.00	2.60	244.20	2062.53	-18.50	-65.54	67.78	68.10	254.24	.50	
2155.00	2.50	259.10	2153.44	-19.77	-69.34	71.75	72.11	254.09	.73	
2247.00	2.55	258.70	2245.35	-20.55	-73.32	75.80	76.15	254.34	.06	
2338.00	2.30	259.20	2336.27	-21.29	-77.10	79.65	79.98	254.56	.28	
2429.00	2.40	258.80	2427.20	-22.00	-80.76	83.38	83.71	254.76	.11	
2521.00	2.40	265.00	2519.11	-22.54	-84.57	87.23	87.52	255.07	.28	
2612.00	2.50	263.60	2610.03	-22.93	-88.44	91.10	91.37	255.46	.13	
2719.00	2.90	244.80	2716.91	-24.34	-93.21	96.05	96.34	255.36	.90	
2811.00	2.60	253.80	2808.81	-25.92	-97.32	100.37	100.71	255.09	.57	
2902.00	2.20	253.90	2899.73	-26.98	-100.98	104.16	104.52	255.04	.44	
2993.00	2.30	249.10	2990.66	-28.11	-104.36	107.69	108.08	254.92	.23	
3085.00	2.60	256.60	3082.57	-29.25	-108.12	111.59	112.01	254.86	.48	
3176.00	2.50	248.30	3173.49	-30.47	-111.97	115.60	116.04	254.78	.42	
3267.00	2.00	272.00	3264.42	-31.15	-115.40	119.09	119.53	254.90	1.15	
3359.00	2.50	280.70	3356.35	-30.72	-118.98	122.54	122.88	255.52	.66	
3450.00	2.00	270.40	3447.28	-30.34	-122.51	125.95	126.21	256.09	.70	
3541.00	2.30	269.70	3538.21	-30.34	-125.93	129.31	129.53	256.46	.33	
3633.00	2.50	277.50	3630.13	-30.08	-129.76	133.04	133.21	256.95	.42	
3724.00	2.20	276.30	3721.05	-29.63	-133.47	136.61	136.72	257.48	.33	
3815.00	1.80	277.30	3812.00	-29.26	-136.62	139.64	139.72	257.91	.44	
3907.00	2.60	272.20	3903.93	-29.00	-140.14	143.06	143.11	258.31	.89	
3998.00	2.50	251.90	3994.84	-29.53	-144.09	147.04	147.08	258.42	.99	

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4089.00	2.60	278.20	4085.75	-29.86	-148.02	150.97	151.00	258.60	1.28
4181.00	2.60	281.50	4177.66	-29.14	-152.13	154.88	154.89	259.16	.16
4272.00	2.60	295.00	4268.57	-27.86	-156.02	158.49	158.49	259.88	.67
4363.00	2.30	278.70	4359.49	-26.71	-159.70	161.90	161.92	260.51	.83
4455.00	2.10	277.30	4451.42	-26.22	-163.19	165.26	165.29	260.87	.23
4546.00	2.60	280.60	4542.34	-25.62	-166.88	168.78	168.83	261.27	.57
4637.00	2.20	284.20	4633.26	-24.82	-170.60	172.30	172.39	261.72	.47
4729.00	2.00	258.60	4725.20	-24.70	-173.88	175.51	175.63	261.92	1.03
4820.00	2.50	250.00	4816.13	-25.69	-177.31	179.05	179.16	261.75	.66
4911.00	2.50	253.10	4907.04	-26.95	-181.07	182.98	183.06	261.53	.15
5002.00	2.50	254.00	4997.96	-28.07	-184.88	186.93	187.00	261.37	.04
5093.00	2.40	248.70	5088.87	-29.31	-188.56	190.77	190.82	261.16	.27
5185.00	1.90	257.40	5180.81	-30.34	-191.84	194.18	194.23	261.01	.65
5276.00	1.20	248.90	5271.78	-31.02	-194.20	196.63	196.67	260.93	.81
5367.00	2.20	265.60	5362.74	-31.49	-196.84	199.30	199.34	260.91	1.22
5458.00	2.50	257.80	5453.66	-32.05	-200.52	203.02	203.06	260.92	.48
5550.00	2.40	250.20	5545.57	-33.12	-204.29	206.93	206.96	260.79	.37
5641.00	2.30	250.40	5636.50	-34.38	-207.80	210.61	210.63	260.61	.11
5734.00	2.00	251.50	5729.43	-35.52	-211.10	214.05	214.07	260.45	.33
5825.00	2.80	222.80	5820.36	-37.66	-214.12	217.40	217.40	260.03	1.56
5917.00	4.20	209.10	5912.18	-42.25	-217.28	221.33	221.35	259.00	1.76
6008.00	5.60	204.20	6002.85	-49.21	-220.72	225.95	226.14	257.43	1.60
6099.00	5.50	205.00	6093.42	-57.21	-224.39	230.97	231.56	255.70	.14
6191.00	4.50	212.10	6185.07	-64.27	-228.17	235.94	237.05	254.27	1.28
6282.00	4.10	216.60	6275.82	-69.90	-232.00	240.72	242.31	253.23	.57
6373.00	3.40	213.80	6366.62	-74.76	-235.44	244.96	247.03	252.38	.79
6465.00	2.60	214.00	6458.49	-78.75	-238.13	248.31	250.81	251.70	.87
6556.00	1.10	268.60	6549.45	-80.49	-240.16	250.61	253.28	251.47	2.37
6647.00	1.10	12.00	6640.44	-79.65	-240.85	251.15	253.68	251.70	1.90
6738.00	3.00	12.80	6731.38	-76.48	-240.14	249.89	252.02	252.33	2.09
6830.00	2.50	5.10	6823.27	-72.13	-239.43	248.42	250.06	253.23	.67
6921.00	.80	349.00	6914.23	-69.53	-239.37	247.90	249.27	253.80	1.92
7012.00	.50	220.70	7005.23	-69.21	-239.75	248.22	249.54	253.90	1.29
7103.00	1.30	196.50	7096.22	-70.50	-240.30	248.99	250.43	253.65	.95

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE		Dogleg Severity Deg/100
								Direction Deg	Direction Deg	
7195.00	2.10	203.00	7188.17	-73.05	-241.26	250.38	252.08	253.15	.89	
7286.00	2.70	207.60	7279.09	-76.49	-242.90	252.61	254.66	252.52	.69	
7377.00	3.25	209.54	7369.97	-80.63	-245.17	255.57	258.09	251.80	.61	
7469.00	3.20	224.80	7461.83	-84.72	-248.26	259.34	262.32	251.16	.93	
7560.00	1.10	271.60	7552.76	-86.50	-250.93	262.28	265.42	250.98	2.83	
7652.00	1.00	40.00	7644.76	-85.86	-251.29	262.53	265.56	251.14	2.06	
7743.00	1.30	25.00	7735.74	-84.31	-250.35	261.32	264.16	251.39	.46	
7834.00	.50	28.50	7826.73	-83.03	-249.72	260.48	263.16	251.61	.88	
7926.00	.60	163.80	7918.72	-83.14	-249.40	260.18	262.89	251.56	1.11	
8017.00	1.10	176.10	8009.71	-84.47	-249.20	260.22	263.13	251.28	.58	
8108.00	1.60	180.10	8100.69	-86.61	-249.15	260.55	263.77	250.83	.56	
8199.00	.80	207.30	8191.67	-88.45	-249.44	261.16	264.66	250.48	1.06	
8291.00	.60	268.20	8283.66	-89.03	-250.22	262.03	265.58	250.41	.79	
8383.00	.90	257.50	8375.65	-89.20	-251.40	263.23	266.76	250.46	.36	
8474.00	1.30	227.20	8466.64	-90.06	-252.86	264.81	268.42	250.40	.76	
8565.00	1.76	217.36	8557.61	-91.87	-254.46	266.71	270.54	250.15	.58	
8657.00	.70	247.00	8649.58	-93.21	-255.84	268.30	272.29	249.98	1.31	
8748.00	1.00	225.60	8740.57	-93.99	-256.92	269.50	273.57	249.91	.47	
8839.00	1.40	213.00	8831.55	-95.47	-258.09	270.92	275.18	249.70	.52	
8931.00	1.85	202.77	8923.52	-97.79	-259.28	272.50	277.10	249.34	.58	
Final Survey										
8977.00	2.20	205.20	8969.49	-99.27	-259.94	273.41	278.25	249.10	.78	
Projected to bit										
9027.00	2.20	205.20	9019.45	-101.01	-260.76	274.52	279.64	248.83	.00	

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 08-02-D4

API number: 4301351539

Well Location: QQ NWNE Section 8 Township 4S 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: Capstar Drilling/Petroglyph Operating

Address: P.O. Box 607

city Roosevelt state UT zip 84066

Phone: (435) 722-2531

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	2,693	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
 SIGNATURE 

TITLE Regulatory Compliance Specialist
 DATE 3/21/2014