FORM 3

AMENDED REPORT ☐

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

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Ute Tribal 15-02-D4

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

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)
I109IND5351

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

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

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Phillip Moon Enterprises, LLC

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

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
1116 E 2570 N, Provo, UT 84604

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

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

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	790 FNL 2239 FWL	NENW	15	4.0 S	4.0 W	U
Top of Uppermost Producing Zone	660 FNL 1980 FEL	NWNE	15	4.0 S	4.0 W	U
At Total Depth	660 FNL 1980 FEL	NWNE	15	4.0 S	4.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
790

23. NUMBER OF ACRES IN DRILLING UNIT
4150

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
143

26. PROPOSED DEPTH
MD: 9337 TVD: 9220

27. ELEVATION - GROUND LEVEL
5757

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	16	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 2283	24.0	J-55 ST&C	10.0	Class G	1047	1.17	15.8
Prod	7.875	5.5	0 - 9337	17.0	P-110 LT&C	10.0	Class G	583	1.92	12.5
							Class G	674	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** 11/18/2014	**EMAIL** edtrotter@easilink.com

API NUMBER ASSIGNED 43013532210000 **APPROVAL**

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Received: January 29, 2015

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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 15-02-D4
NE NW, SEC 15, T4S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Elevation	TVD	MD
Rig KB=~13' above GGL	**5770**	**0**	**0**
Surface Formation = **Uinta**			
Uinta	**5757**	**13**	**13**
Green River	**3955**	**1815**	**1831**
Trona	2380	3390	3473
Mahogany Shale	2206	3564	3657
"B" Marker	911	4859	4972
"X" Marker	390	5380	5496
Douglas Creek Marker	240	5530	5647
"B" Limestone	-227	5997	6114
Base Castle Peak Limestone	-780	6550	6667
BSCARB	-1140	6910	7027
Wasatch	**-1451**	**7221**	**7338**
Formation at TD: Wasatch Rig TD	**-3450**	**9220**	**9337**

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

Substance	Formation	Elevation	TVD	MD
Base of moderately saline ground water*	Uinta	5600	170	170
Oil/Gas	Douglas Creek	240	5530	5647
Oil/Gas	Castle Peak	-780	6550	6667
Oil/Gas	Wasatch	-1451	7221	7338

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	Grade	Thread
Conductor	20"	16"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	2283'	24 lb/ft	J-55	STC
Production	7-7/8"	5-1/2"	surface	9337'	17 lb/ft	P-110	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"	7, 460 psi	10,640 psi	445,000 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 4972'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 / 2283	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	1,047 / 1,225	30%	15.8	1.17
Production Lead	0 / 4972	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	583 / 1,120	30%	12.5	1.92
Production Tail	4972 / 9337	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	674 / 983	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 Trona at 3473'MD.

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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 11", 3000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- All BOPE connections subjected to well pressure will be flanged, welded or clamped.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 3,000 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

- Surface hole will be drilled with a rotary drill rig.
- Operator will not use BOPE while drilling surface hole to accommodate a 12-1/4" bit.
- The surface hole will be drilled with a fresh water polymer system from 0' to 2283'. All cuttings shall be directed to pit.
- BLM will be given 24 hour notice of running and cementing surface casing.

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B. PRODUCTION HOLE

- Drilling of production hole shall not commence until surface cement has set long enough to achieve 500 psi compressive strength at Surface Casing Shoe.
- Prior to drilling out of surface, Surface Casing shall be pressure tested to psi (0.22 psi per foot) and hold for 30 minutes with a less than 10% decline.
- The production hole shall be drilled with a freshwater polymer system from 2283' to 9337'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Potassium Chloride (KCl) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 9.8-9.9 lbs/gal. although mud weight up to 12lbs/gal may be used if necessary to prevent wellbore wall instability due to the Wasatch red beds.
- 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 12lbs/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.
- Returns shall be sent through a mud-gas separator.

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 around 230°F, which was recorded in nearby wells by other operators.
- 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 4015 PSI (0.43PSI/ft gradient).
- Normally pressured zones are possible around the Trona Marker (3473') and below.

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 will kick off inside Surface Casing hole to allow wellbore to lie within the drilling window at all hydrocarbon bearing intervals.
- Directional drilling plan is attached.

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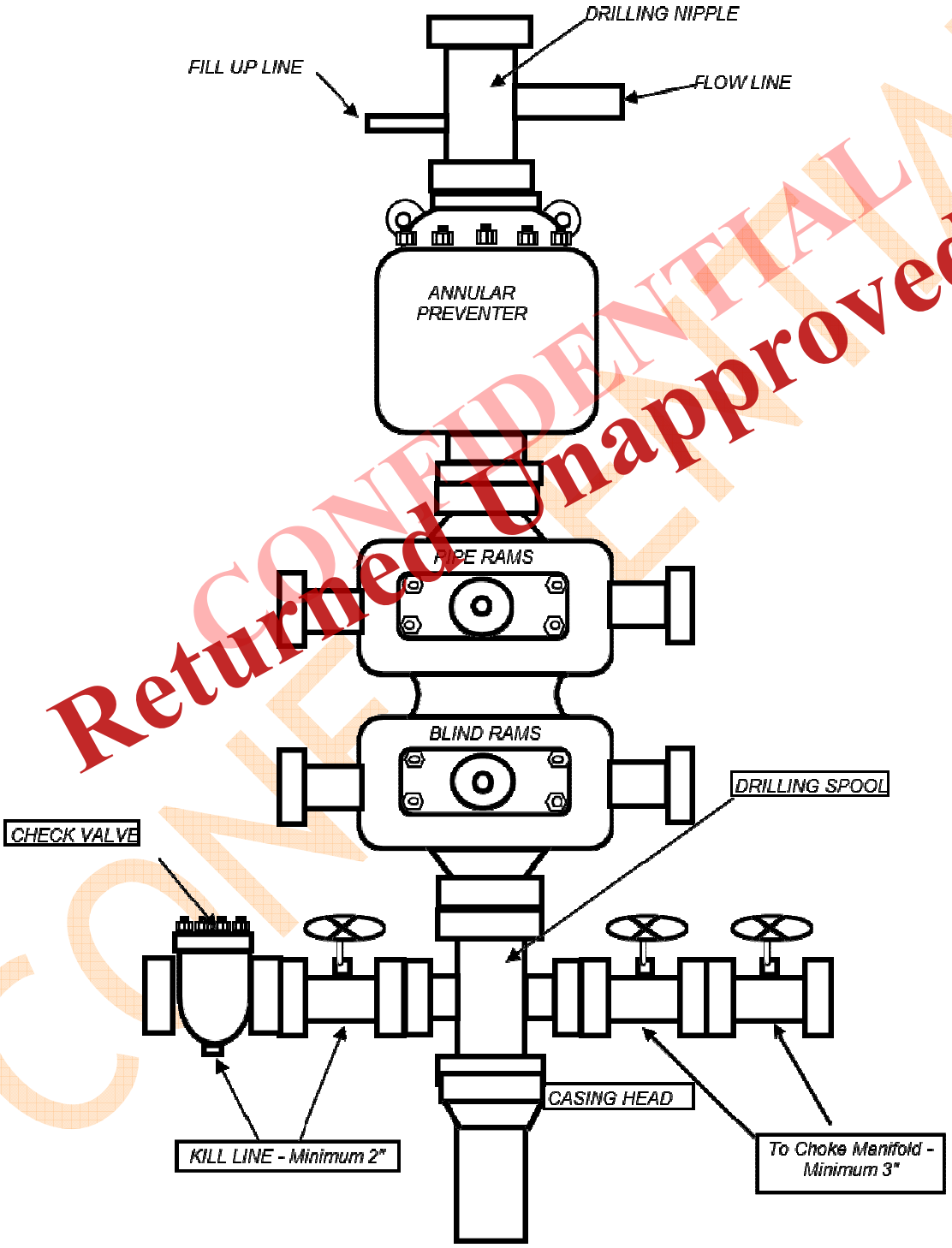
TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



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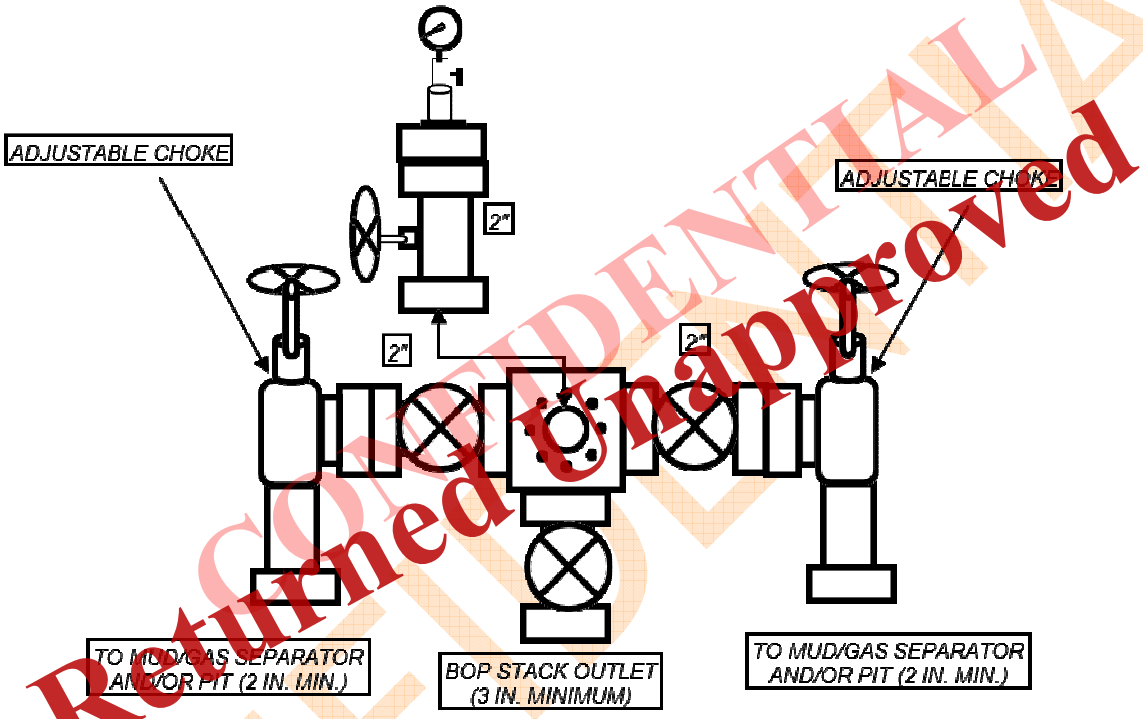
TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



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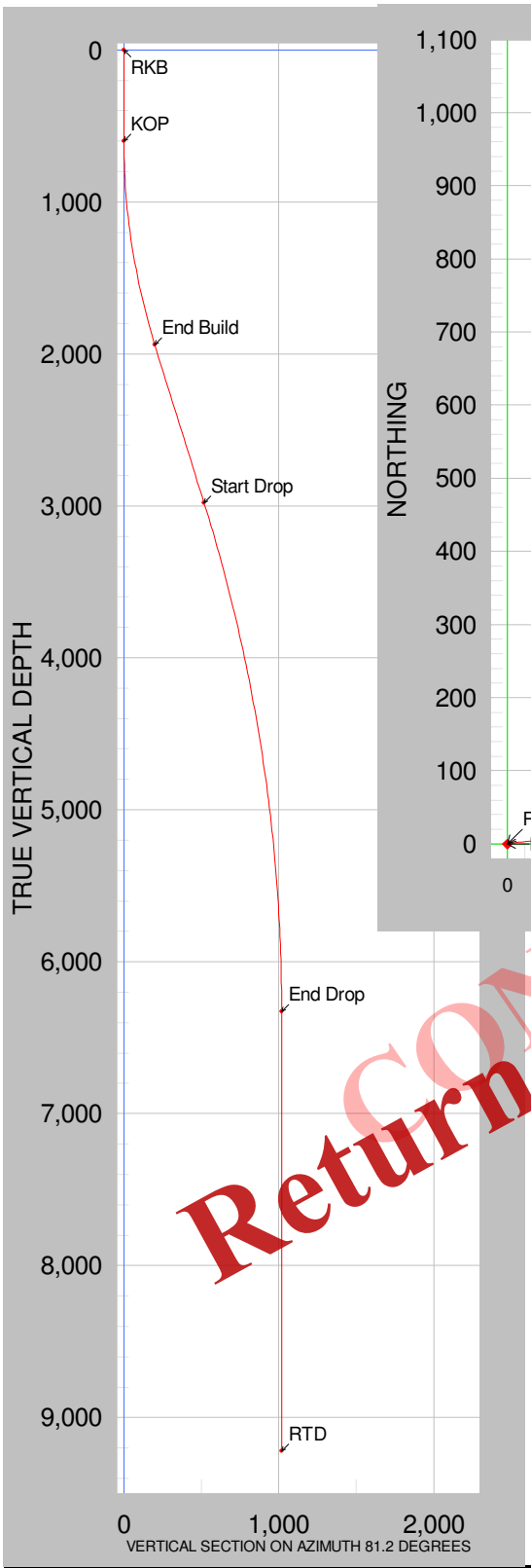

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Ute Tribal 15-02-D4

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	81.20	1940.13	30.64	197.93	1.25	200.28
3	Start Drop	Tangent	3045.00	17.00	81.20	2977.72	79.17	511.42	0.00	517.51
4	End Drop	Drop	6445.00	0.00	0.00	6328.06	155.77	1006.23	0.50	1018.22
5	RTD	Vertical	9337.00	0.00	0.00	9220.06	155.77	1006.23	0.00	1018.22

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014 Page 1 of 6	
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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	81.2	650.00	0.04	0.27	1.25	0.27			
700.00	1.25	81.2	699.99	0.17	1.08	1.25	1.09			
750.00	1.88	81.2	749.97	0.38	2.43	1.25	2.45			
800.00	2.50	81.2	799.94	0.67	4.31	1.25	4.36			
850.00	3.13	81.2	849.88	1.04	6.74	1.25	6.82			
900.00	3.75	81.2	899.79	1.50	9.70	1.25	9.81			
950.00	4.38	81.2	949.66	2.04	13.20	1.25	13.36			
1000.00	5.00	81.2	999.49	2.67	17.24	1.25	17.44			
1050.00	5.63	81.2	1049.28	3.38	21.81	1.25	22.07			
1100.00	6.25	81.2	1099.01	4.17	26.92	1.25	27.24			
1150.00	6.88	81.2	1148.68	5.04	32.57	1.25	32.96			
1200.00	7.50	81.2	1198.29	6.00	38.75	1.25	39.21			
1250.00	8.13	81.2	1247.82	7.04	45.47	1.25	46.01			
1300.00	8.75	81.2	1297.28	8.16	52.72	1.25	53.35			
1350.00	9.38	81.2	1346.66	9.37	60.50	1.25	61.22			
1400.00	10.00	81.2	1395.94	10.65	68.82	1.25	69.64			
1450.00	10.63	81.2	1445.14	12.02	77.66	1.25	78.59			
1500.00	11.25	81.2	1494.23	13.47	87.04	1.25	88.07			
1550.00	11.88	81.2	1543.21	15.01	96.94	1.25	98.10			
1600.00	12.50	81.2	1592.09	16.62	107.37	1.25	108.65			
1650.00	13.13	81.2	1640.84	18.32	118.33	1.25	119.74			

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014	Page 2 of 6
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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
1700.00	13.75	81.2	1689.47	20.10	129.81	1.25	131.36			
1750.00	14.38	81.2	1737.97	21.95	141.82	1.25	143.51			
1800.00	15.00	81.2	1786.34	23.89	154.35	1.25	156.18			
1850.00	15.63	81.2	1834.56	25.91	167.39	1.25	169.39			
1900.00	16.25	81.2	1882.64	28.01	180.96	1.25	183.12			
1950.00	16.88	81.2	1930.57	30.20	195.05	1.25	197.37			
*** END BUILD (at MD = 1960.00)										
1960.00	17.00	81.2	1940.13	30.64	197.93	1.25	200.28			
2000.00	17.00	81.2	1978.39	32.43	209.48	0.00	211.98			
2050.00	17.00	81.2	2026.20	34.67	223.93	0.00	226.60			
2100.00	17.00	81.2	2074.02	36.90	238.38	0.00	241.22			
2150.00	17.00	81.2	2121.83	39.14	252.82	0.00	255.83			
2200.00	17.00	81.2	2169.65	41.38	267.27	0.00	270.45			
2250.00	17.00	81.2	2217.46	43.61	281.72	0.00	285.07			
2300.00	17.00	81.2	2265.28	45.85	296.16	0.00	299.69			
2350.00	17.00	81.2	2313.09	48.08	310.61	0.00	314.31			
2400.00	17.00	81.2	2360.91	50.32	325.06	0.00	328.93			
2450.00	17.00	81.2	2408.72	52.56	339.50	0.00	343.55			
2500.00	17.00	81.2	2456.54	54.79	353.95	0.00	358.17			
2550.00	17.00	81.2	2504.35	57.03	368.40	0.00	372.78			
2600.00	17.00	81.2	2552.17	59.27	382.84	0.00	387.40			
2650.00	17.00	81.2	2599.98	61.50	397.29	0.00	402.02			
2700.00	17.00	81.2	2647.80	63.74	411.73	0.00	416.64			
2750.00	17.00	81.2	2695.61	65.98	426.18	0.00	431.26			
2800.00	17.00	81.2	2743.43	68.21	440.63	0.00	445.88			
2850.00	17.00	81.2	2791.24	70.45	455.07	0.00	460.50			
2900.00	17.00	81.2	2839.06	72.69	469.52	0.00	475.11			
2950.00	17.00	81.2	2886.87	74.92	483.97	0.00	489.73			
3000.00	17.00	81.2	2934.69	77.16	498.41	0.00	504.35			
*** START DROP (at MD = 3045.00)										
3045.00	17.00	81.2	2977.72	79.17	511.42	0.00	517.51			
3050.00	16.98	81.2	2982.51	79.39	512.86	0.50	518.97			
3100.00	16.73	81.2	3030.36	81.61	527.18	0.50	533.46			
3150.00	16.48	81.2	3078.28	83.80	541.30	0.50	547.75			
3200.00	16.23	81.2	3126.25	85.95	555.21	0.50	561.82			

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014	Page 3 of 6
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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
3250.00	15.98	81.2	3174.29	88.07	568.91	0.50	575.69			
3300.00	15.73	81.2	3222.39	90.16	582.41	0.50	589.34			
3350.00	15.48	81.2	3270.55	92.22	595.69	0.50	602.79			
3400.00	15.23	81.2	3318.77	94.24	608.77	0.50	616.02			
3450.00	14.98	81.2	3367.04	96.24	621.65	0.50	629.05			
3500.00	14.73	81.2	3415.37	98.20	634.31	0.50	641.86			
3550.00	14.48	81.2	3463.75	100.12	646.76	0.50	654.47			
3600.00	14.23	81.2	3512.19	102.02	659.01	0.50	666.86			
3650.00	13.98	81.2	3560.69	103.88	671.05	0.50	679.04			
3700.00	13.73	81.2	3609.23	105.71	682.88	0.50	691.01			
3750.00	13.48	81.2	3657.83	107.51	694.49	0.50	702.77			
3800.00	13.23	81.2	3706.48	109.28	705.90	0.50	714.31			
3850.00	12.98	81.2	3755.18	111.01	717.10	0.50	725.64			
3900.00	12.73	81.2	3803.93	112.71	728.09	0.50	736.76			
3950.00	12.48	81.2	3852.72	114.38	738.87	0.50	747.67			
4000.00	12.23	81.2	3901.57	116.02	749.44	0.50	758.37			
4050.00	11.98	81.2	3950.46	117.62	759.80	0.50	768.85			
4100.00	11.73	81.2	3999.39	119.19	769.94	0.50	779.11			
4150.00	11.48	81.2	4048.37	120.73	779.88	0.50	789.17			
4200.00	11.23	81.2	4097.39	122.24	789.60	0.50	799.01			
4250.00	10.98	81.2	4146.46	123.71	799.12	0.50	808.63			
4300.00	10.73	81.2	4195.56	125.15	808.42	0.50	818.05			
4350.00	10.48	81.2	4244.71	126.56	817.51	0.50	827.24			
4400.00	10.23	81.2	4293.89	127.93	826.38	0.50	836.23			
4450.00	9.98	81.2	4343.12	129.27	835.05	0.50	845.00			
4500.00	9.73	81.2	4392.38	130.58	843.50	0.50	853.55			
4550.00	9.48	81.2	4441.68	131.86	851.74	0.50	861.89			
4600.00	9.23	81.2	4491.02	133.10	859.77	0.50	870.01			
4650.00	8.98	81.2	4540.39	134.31	867.58	0.50	877.92			
4700.00	8.73	81.2	4589.79	135.49	875.19	0.50	885.61			
4750.00	8.48	81.2	4639.23	136.63	882.57	0.50	893.09			
4800.00	8.23	81.2	4688.70	137.74	889.75	0.50	900.35			
4850.00	7.98	81.2	4738.20	138.82	896.71	0.50	907.39			
4900.00	7.73	81.2	4787.73	139.86	903.46	0.50	914.22			
4950.00	7.48	81.2	4837.29	140.87	910.00	0.50	920.84			

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014	Page 4 of 6
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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	7.23	81.2	4886.88	141.85	916.32	0.50	927.23			
5050.00	6.98	81.2	4936.50	142.80	922.42	0.50	933.41			
5100.00	6.73	81.2	4986.14	143.71	928.32	0.50	939.38			
5150.00	6.48	81.2	5035.81	144.59	934.00	0.50	945.12			
5200.00	6.23	81.2	5085.50	145.44	939.46	0.50	950.65			
5250.00	5.98	81.2	5135.22	146.25	944.71	0.50	955.97			
5300.00	5.73	81.2	5184.96	147.03	949.75	0.50	961.08			
5350.00	5.48	81.2	5234.72	147.78	954.57	0.50	965.94			
5400.00	5.23	81.2	5284.50	148.49	959.18	0.50	970.60			
5450.00	4.98	81.2	5334.31	149.17	963.57	0.50	975.05			
5500.00	4.73	81.2	5384.13	149.82	967.75	0.50	979.27			
5550.00	4.48	81.2	5433.97	150.43	971.71	0.50	983.28			
5600.00	4.23	81.2	5483.82	151.01	975.46	0.50	987.08			
5650.00	3.98	81.2	5533.69	151.56	978.99	0.50	990.65			
5700.00	3.73	81.2	5583.55	152.07	982.31	0.50	994.01			
5750.00	3.48	81.2	5633.48	152.55	985.41	0.50	997.15			
5800.00	3.23	81.2	5683.40	153.00	988.30	0.50	1000.07			
5850.00	2.98	81.2	5733.32	153.41	990.97	0.50	1002.77			
5900.00	2.73	81.2	5783.26	153.79	993.43	0.50	1005.26			
5950.00	2.48	81.2	5833.21	154.14	995.67	0.50	1007.53			
6000.00	2.23	81.2	5883.17	154.45	997.69	0.50	1009.58			
6050.00	1.98	81.2	5933.14	154.73	999.51	0.50	1011.41			
6100.00	1.73	81.2	5983.11	154.98	1001.10	0.50	1013.03			
6150.00	1.48	81.2	6033.09	155.19	1002.48	0.50	1014.42			
6200.00	1.23	81.2	6083.08	155.37	1003.64	0.50	1015.60			
6250.00	0.98	81.2	6133.07	155.52	1004.59	0.50	1016.56			
6300.00	0.73	81.2	6183.06	155.63	1005.33	0.50	1017.30			
6350.00	0.48	81.2	6233.06	155.71	1005.84	0.50	1017.82			
6400.00	0.23	81.2	6283.06	155.76	1006.14	0.50	1018.13			
*** END DROP (at MD = 6445.00)										
6445.00	0.00	0.0	6328.06	155.77	1006.23	0.50	1018.22			
6450.00	0.00	0.0	6333.06	155.77	1006.23	0.00	1018.22			
6500.00	0.00	0.0	6383.06	155.77	1006.23	0.00	1018.22			
6550.00	0.00	0.0	6433.06	155.77	1006.23	0.00	1018.22			
6600.00	0.00	0.0	6483.06	155.77	1006.23	0.00	1018.22			

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014	Page 5 of 6
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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
6650.00	0.00	0.0	6533.06	155.77	1006.23	0.00	1018.22			
6700.00	0.00	0.0	6583.06	155.77	1006.23	0.00	1018.22			
6750.00	0.00	0.0	6633.06	155.77	1006.23	0.00	1018.22			
6800.00	0.00	0.0	6683.06	155.77	1006.23	0.00	1018.22			
6850.00	0.00	0.0	6733.06	155.77	1006.23	0.00	1018.22			
6900.00	0.00	0.0	6783.06	155.77	1006.23	0.00	1018.22			
6950.00	0.00	0.0	6833.06	155.77	1006.23	0.00	1018.22			
7000.00	0.00	0.0	6883.06	155.77	1006.23	0.00	1018.22			
7050.00	0.00	0.0	6933.06	155.77	1006.23	0.00	1018.22			
7100.00	0.00	0.0	6983.06	155.77	1006.23	0.00	1018.22			
7150.00	0.00	0.0	7033.06	155.77	1006.23	0.00	1018.22			
7200.00	0.00	0.0	7083.06	155.77	1006.23	0.00	1018.22			
7250.00	0.00	0.0	7133.06	155.77	1006.23	0.00	1018.22			
7300.00	0.00	0.0	7183.06	155.77	1006.23	0.00	1018.22			
7350.00	0.00	0.0	7233.06	155.77	1006.23	0.00	1018.22			
7400.00	0.00	0.0	7283.06	155.77	1006.23	0.00	1018.22			
7450.00	0.00	0.0	7333.06	155.77	1006.23	0.00	1018.22			
7500.00	0.00	0.0	7383.06	155.77	1006.23	0.00	1018.22			
7550.00	0.00	0.0	7433.06	155.77	1006.23	0.00	1018.22			
7600.00	0.00	0.0	7483.06	155.77	1006.23	0.00	1018.22			
7650.00	0.00	0.0	7533.06	155.77	1006.23	0.00	1018.22			
7700.00	0.00	0.0	7583.06	155.77	1006.23	0.00	1018.22			
7750.00	0.00	0.0	7633.06	155.77	1006.23	0.00	1018.22			
7800.00	0.00	0.0	7683.06	155.77	1006.23	0.00	1018.22			
7850.00	0.00	0.0	7733.06	155.77	1006.23	0.00	1018.22			
7900.00	0.00	0.0	7783.06	155.77	1006.23	0.00	1018.22			
7950.00	0.00	0.0	7833.06	155.77	1006.23	0.00	1018.22			
8000.00	0.00	0.0	7883.06	155.77	1006.23	0.00	1018.22			
8050.00	0.00	0.0	7933.06	155.77	1006.23	0.00	1018.22			
8100.00	0.00	0.0	7983.06	155.77	1006.23	0.00	1018.22			
8150.00	0.00	0.0	8033.06	155.77	1006.23	0.00	1018.22			
8200.00	0.00	0.0	8083.06	155.77	1006.23	0.00	1018.22			
8250.00	0.00	0.0	8133.06	155.77	1006.23	0.00	1018.22			
8300.00	0.00	0.0	8183.06	155.77	1006.23	0.00	1018.22			
8350.00	0.00	0.0	8233.06	155.77	1006.23	0.00	1018.22			

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15-02-D4, Plan 1

Operator		**Units**	feet, °/100ft	11:01 Monday, October 20, 2014	Page 6 of 6
Field		**County**	Duchesne	**Vertical Section Azimuth**	81.2
Well Name	15-02-D4	**State**	UT	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SHL: 790' FNL & 2239' FWL BHL: 660' FNL & 1980' 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
8400.00	0.00	0.0	8283.06	155.77	1006.23	0.00	1018.22			
8450.00	0.00	0.0	8333.06	155.77	1006.23	0.00	1018.22			
8500.00	0.00	0.0	8383.06	155.77	1006.23	0.00	1018.22			
8550.00	0.00	0.0	8433.06	155.77	1006.23	0.00	1018.22			
8600.00	0.00	0.0	8483.06	155.77	1006.23	0.00	1018.22			
8650.00	0.00	0.0	8533.06	155.77	1006.23	0.00	1018.22			
8700.00	0.00	0.0	8583.06	155.77	1006.23	0.00	1018.22			
8750.00	0.00	0.0	8633.06	155.77	1006.23	0.00	1018.22			
8800.00	0.00	0.0	8683.06	155.77	1006.23	0.00	1018.22			
8850.00	0.00	0.0	8733.06	155.77	1006.23	0.00	1018.22			
8900.00	0.00	0.0	8783.06	155.77	1006.23	0.00	1018.22			
8950.00	0.00	0.0	8833.06	155.77	1006.23	0.00	1018.22			
9000.00	0.00	0.0	8883.06	155.77	1006.23	0.00	1018.22			
9050.00	0.00	0.0	8933.06	155.77	1006.23	0.00	1018.22			
9100.00	0.00	0.0	8983.06	155.77	1006.23	0.00	1018.22			
9150.00	0.00	0.0	9033.06	155.77	1006.23	0.00	1018.22			
9200.00	0.00	0.0	9083.06	155.77	1006.23	0.00	1018.22			
9250.00	0.00	0.0	9133.06	155.77	1006.23	0.00	1018.22			
9300.00	0.00	0.0	9183.06	155.77	1006.23	0.00	1018.22			
*** RTD (at MD = 9337.00)										
9337.00	0.00	0.0	9220.06	155.77	1006.23	0.00	1018.22			

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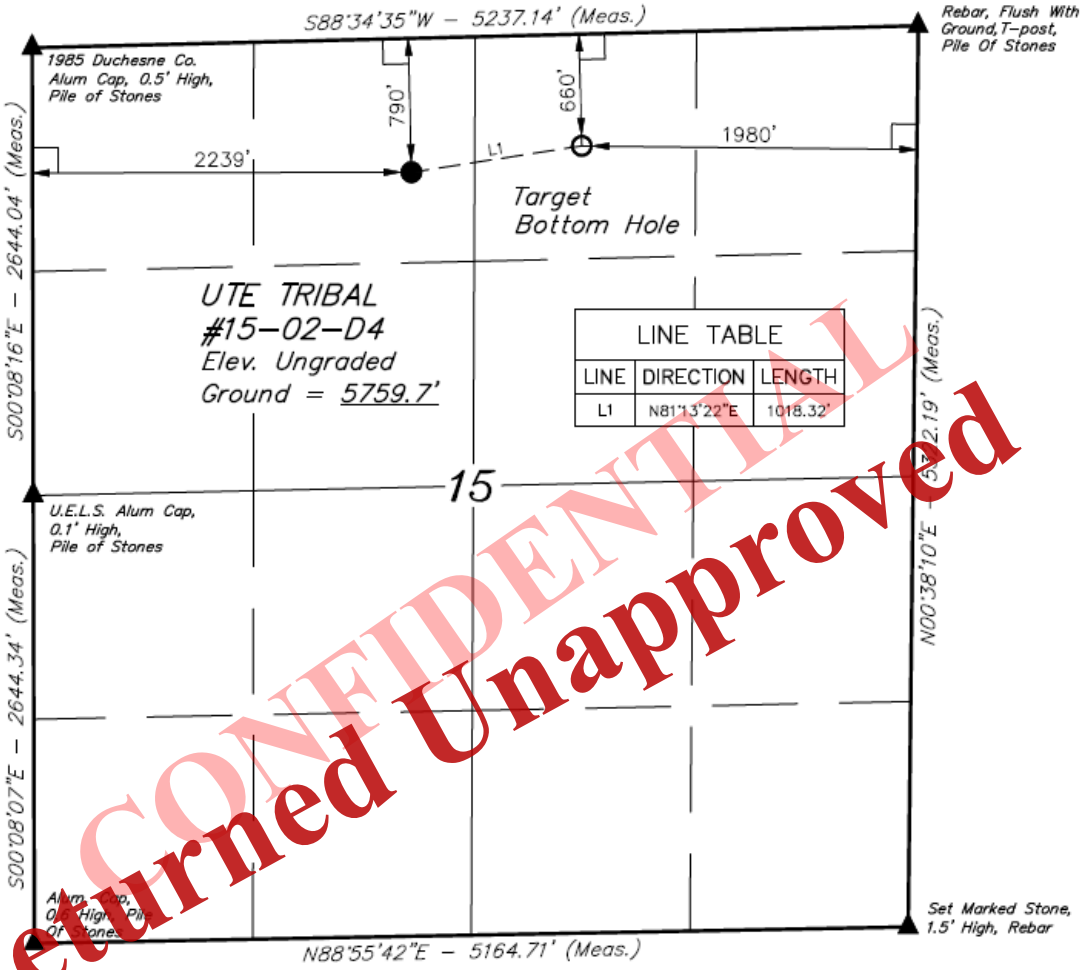
LEGEND:

- = 90° SYMBOL
- ● = PROPOSED WELLHEAD.
- ○ = TARGET BOTTOM HOLE.
- ▲ = SECTION CORNERS LOCATED.

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



LINE TABLE

LINE	DIRECTION	LENGTH
L1	N81°13'22"E	1018.32'

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1000' 500' 0' 1000'

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°08'21.80" (40.139389)	LATITUDE = 40°08'20.26" (40.138961)
LONGITUDE = 110°19'16.34" (110.321206)	LONGITUDE = 110°19'29.30" (110.324806)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°08'21.94" (40.139428)	LATITUDE = 40°08'20.41" (40.139003)
LONGITUDE = 110°19'13.79" (110.320497)	LONGITUDE = 110°19'26.74" (110.324094)

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 6631032
STATE OF UTAH

09-25-14

BASIS OF BEARINGS

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

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE 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.

N

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #15-02-D4
NE 1/4 NW 1/4, SECTION 15, T4S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

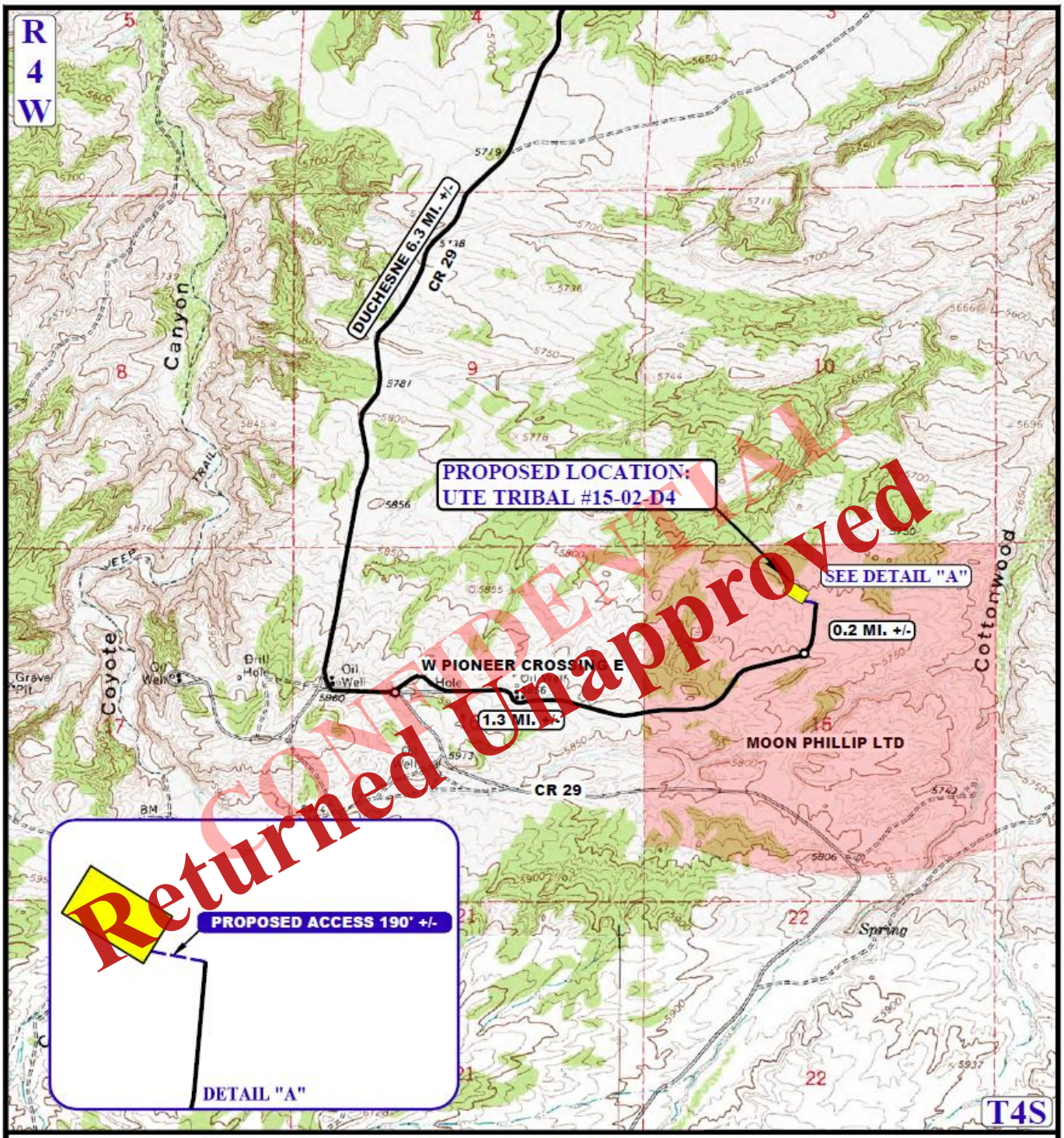
SURVEYED BY: G.M., D.N.	SURVEY DATE: 08-14-14
DRAWN BY: T.T.	DATE DRAWN: 08-20-14
SCALE: 1" = 1000'	REVISED: 00-00-00

WELL LOCATION PLAT

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Received: November 18, 2014



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD
PROPOSED ROAD

N

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #15-02-D4
SECTION 15, T4S, R4W,U.S.B.&M.
790' FNL 2239' FWL

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.K.W	DATE DRAWN: 09-09-14
SCALE: 1" = 2000'	REVISED: 00-00-00
ACCESS ROAD MAP	TOPO B

Received: November 18, 2014

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

November 7, 2014

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 15-02-D4 790' FNL & 2239' FWL, NE/NW, (Surface Hole)
660' FNL & 1980' FEL, NW/NE, (Bottom Hole)
Sec. 15, T4S, R4W, U.S.B.&M.,
Duchesne County, Utah

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Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on November 7, 2014, 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 15-02-D4 is located within the Duchesne Field on Fee lands.
- 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

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

Received: November 18, 2014

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 15-02-D4 Well, located in NE/NW of Section 15, T4S, R4W, Duchesne County, Utah, lease #I-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 #LPM4138336.

11-12.2014
Date

Agent

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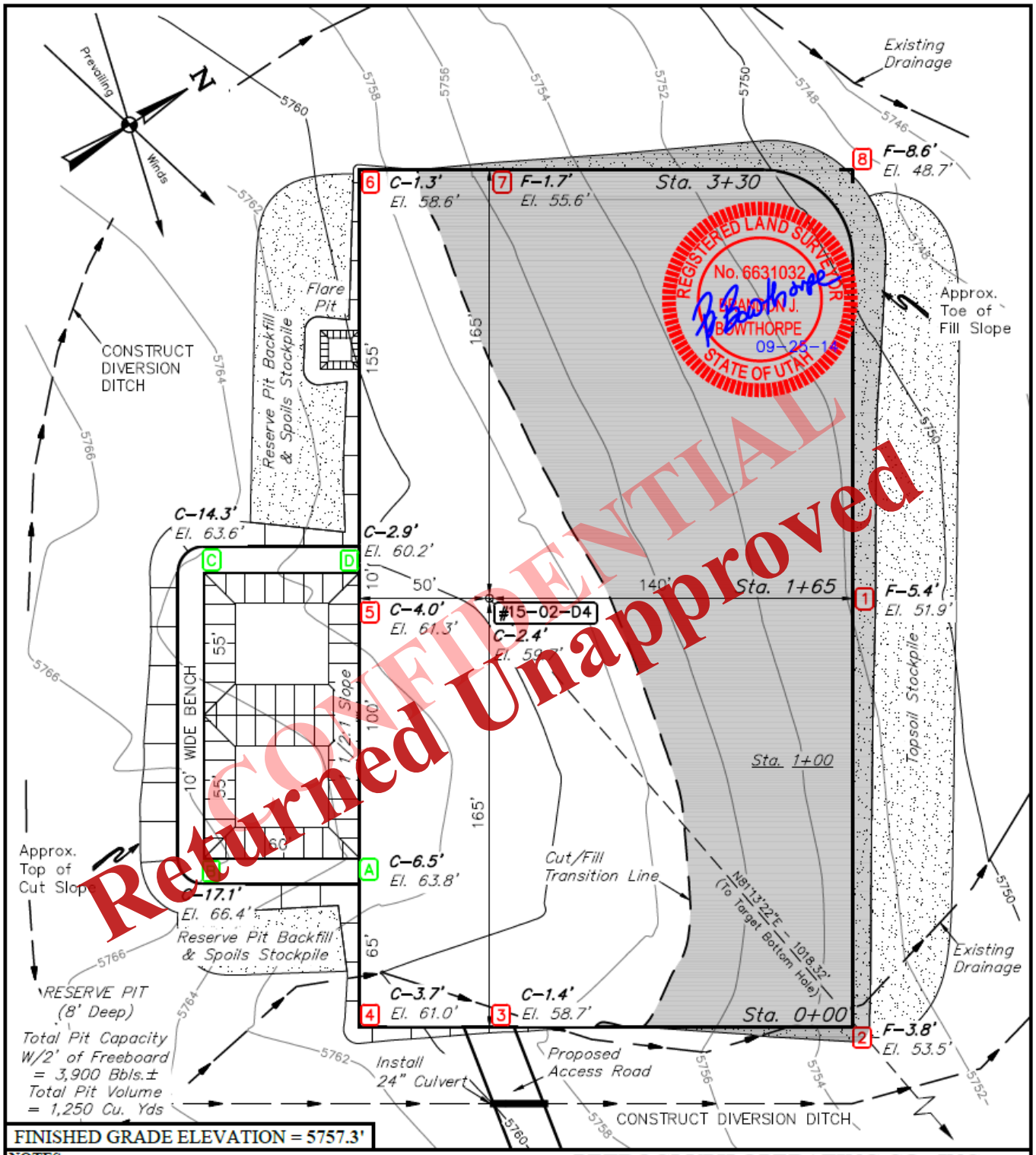
Received: November 18, 2014



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NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Round corners at 35' radius or as needed.
- Construct diversion ditches as needed.
- Contours shown at 2' intervals.

PETROGLYPH OPERATING CO., INC.

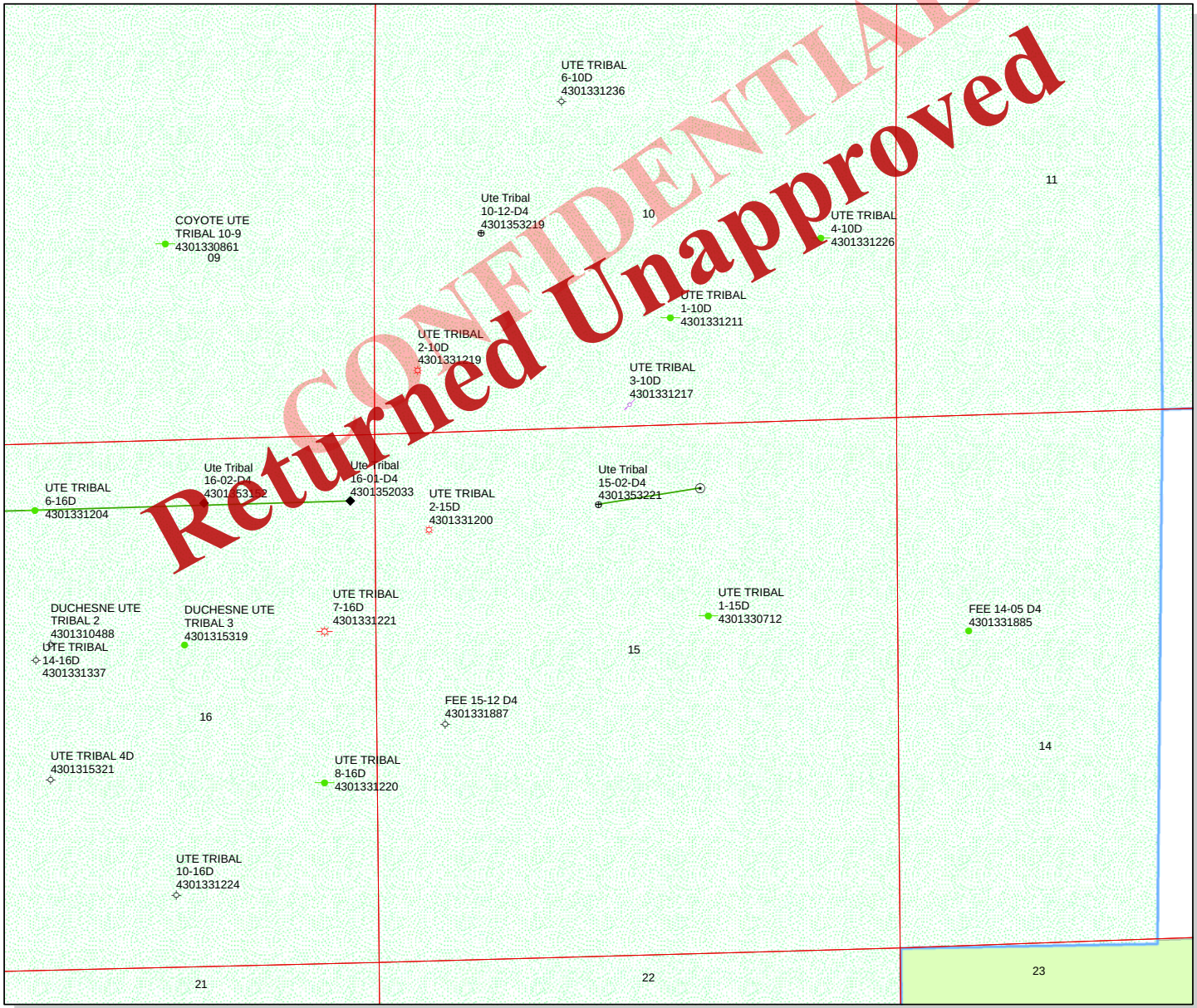
UTE TRIBAL #15-02-D4
SECTION 15, T4S, R4W, U.S.B.&M.
790' FNL 2239' FWL

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: T.T.	DATE DRAWN: 08-20-14
SCALE: 1" = 50'	REVISED: 00-00-00
LOCATION LAYOUT	**FIGURE #1**

Received: November 18, 2014



API Number: 4301353221

Well Name: Ute Tribal 15-02-D4

Township: T04.0S Range: R04.0W Section: 15 Meridian: U

Operator: PETROGLYPH OPERATING CO

Map Prepared: 1/29/2015
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

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,250 625 0 1,250 Feet

1:12,470

Received: January 29, 2015

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

March 31, 2016

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

Re: Application for Permit to Drill - DUCHESNE County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the Ute Tribal 15-02-D4 well, API 43013532210000 that was submitted November 18, 2014 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason
Environmental Scientist

Enclosure
cc: Bureau of Land Management, Vernal, Utah

Diana Mason <dianawhitney@utah.gov>

RE: Application For Permit to Drill Sent Back for Revisions

Ed Trotter <edtrotter@easilink.com> Thu, Mar 31, 2016 at 3:26 PM
To: dianawhitney@utah.gov
Cc: donnamae@easilink.com

Diana,

We are working on getting a new Surface Use Agreement for this location so you can return the APD and we will submit it again when we have the new SUA to go with it.

Thanks for your help,

Ed

-----Original Message-----
From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]
Sent: Thursday, March 31, 2016 6:55 AM
To: edtrotter@easilink.com
Subject: Application For Permit to Drill Sent Back for Revisions

APD Number: 10692
Well Name: Ute Tribal 15-02-D4
Operator: PETROGLYPH OPERATING CO
3RD REQUEST: Needs surface agreement.

Hi Ed,

Did you want me to return this APD?

Thanks,
Diana

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2016.0.7497 / Virus Database: 4545/11923 - Release Date: 03/30/16