

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER Melesco 34-03-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) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" 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') Jensen L. Denmark						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-358-8689							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 650 N 300 E., Pleasant Grove, UT 84062						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 <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		761 FNL 1450 FWL		NENW		34		4.0 S		4.0 W		U	
Top of Uppermost Producing Zone		660 FNL 1980 FWL		NENW		34		4.0 S		4.0 W		U	
At Total Depth		660 FNL 1980 FWL		NENW		34		4.0 S		4.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 761			23. NUMBER OF ACRES IN DRILLING UNIT 320							
27. ELEVATION - GROUND LEVEL 6218			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 1445			26. PROPOSED DEPTH MD: 7272 TVD: 7231							
28. BOND NUMBER LPM4138153			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342										
<b>Hole, Casing, and Cement Information</b>													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
COND	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8			
SURF	12.25	8.625	0 - 763	24.0	J-55 ST&C	10.0	Class G	350	1.17	15.8			
PROD	7.875	3.5	0 - 7272	15.5	J-55 LT&C	10.0	Class G	497	1.92	12.5			
							Class G	469	1.46	13.4			
<b>ATTACHMENTS</b>													
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 09/18/2014			EMAIL edtrotter@easilink.com							
API NUMBER ASSIGNED 43013531390000						APPROVAL							

**Received: November 06, 2014**

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**MELESCO 34-03-D4**  
**NE NW, SEC 34, T4S, R4W**  
**DUCHESNE COUNTY, UTAH**

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Formation	Subsea	TVD	MD
Rig KB~13' above GGL	6231	0	0
Surface Formation = Uinta			
<b>Uinta</b>	<b>6218</b>	<b>13</b>	<b>13</b>
<b>Green River</b>	<b>4757</b>	<b>1474</b>	<b>1476</b>
Trona	3385	2846	2869
Mahogany Shale	3220	3011	3037
"B" Marker	2035	4196	4234
"X" Marker	1534	4697	4736
Douglas Creek Marker	1390	4841	4881
"B" Limestone	982	4196	5289
Base Castle Peak Limestone	396	5835	5875
BSCARB	23	6208	6248
<b>Wasatch</b>	<b>-259</b>	<b>6490</b>	<b>6530</b>
Formation at TD: Wasatch      Rig TD	<b>-1000</b>	<b>7231</b>	<b>7272</b>

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

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	Uinta	5540	691	691
Oil/Gas	Douglas Creek	1390	4841	4881
Oil/Gas	Castle Peak	396	5835	5875
Oil/Gas	Wasatch	-259	6490	6530

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

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

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

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

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**3. PROPOSED CASING PROGRAM:**

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	763'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7272'	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 4234' MD.

**4. PROPOSED CEMENTING PROGRAM:**

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
	Bottom		Vol (ft <sup>3</sup> )			
Conductor	0 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 763	Class G +2% CaCl <sub>2</sub> +0.25 lb/sk Cello Flake	350 409	30%	15.8	1.17
Production Lead	0 4234	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM)	497 954	30%	12.5	1.92
Production Tail	4234 7272	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR <sup>1</sup> / <sub>4</sub> (LCM)	469 684	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 2869' 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 763'. 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 40 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 will use air drilling techniques only on the surface hole.
- Operator plans to conform to the standards of Federal Onshore Order 2 for drilling. Operator may vary from the standards of Onshore Order 2 part E during drilling of the surface hole:
  - Operator may use a blooie line discharge 75' from the well bore instead of the Federal standard of 100' due to reduced drilling pad size.
  - Operator will have a mister on the end of the blooie line instead of an automatic igniter or continuous pilot light on the blooie line.
  - Operator's compressors will be located approximately 75' from the wellbore due to reduced location size. Compressors will be sited as close as is reasonable to the opposite direction of the blooie line discharge.
  - Operator will use an air bowl on the diverter system in place of BOPE.

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**B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 763' to 7272'. 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 8.3-8.8lbs/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 mud weight 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 without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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**7. EVALUATION PROGRAM:**

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

**8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

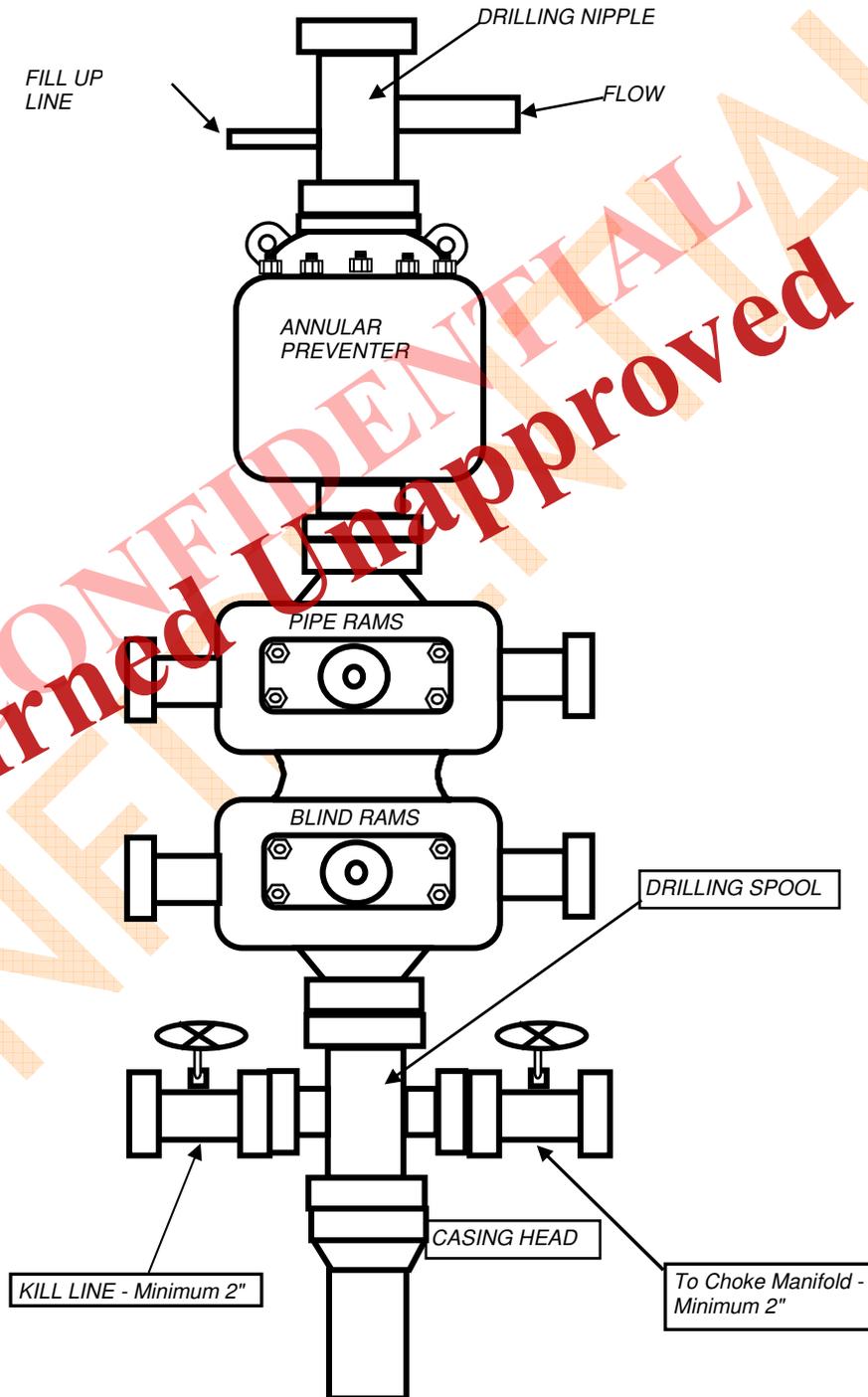
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 3127 PSI (0.43 PSI/ft gradient).
- Normally pressured zones are possible around the Trona Marker (2869') and below.

**9. DIRECTIONAL WELL PLAN:**

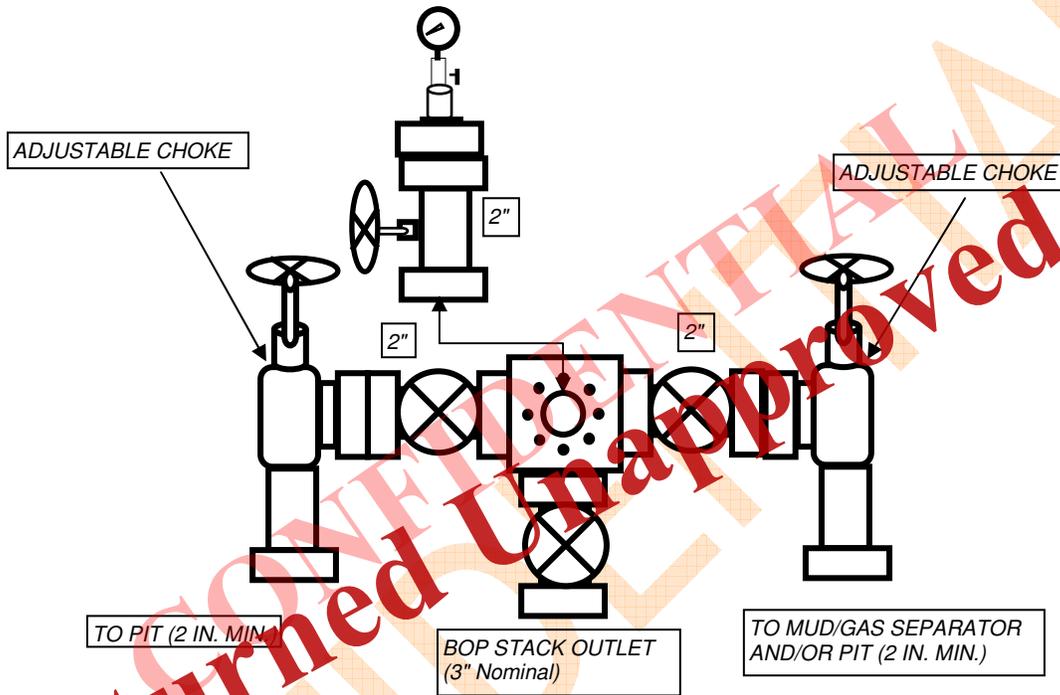
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used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

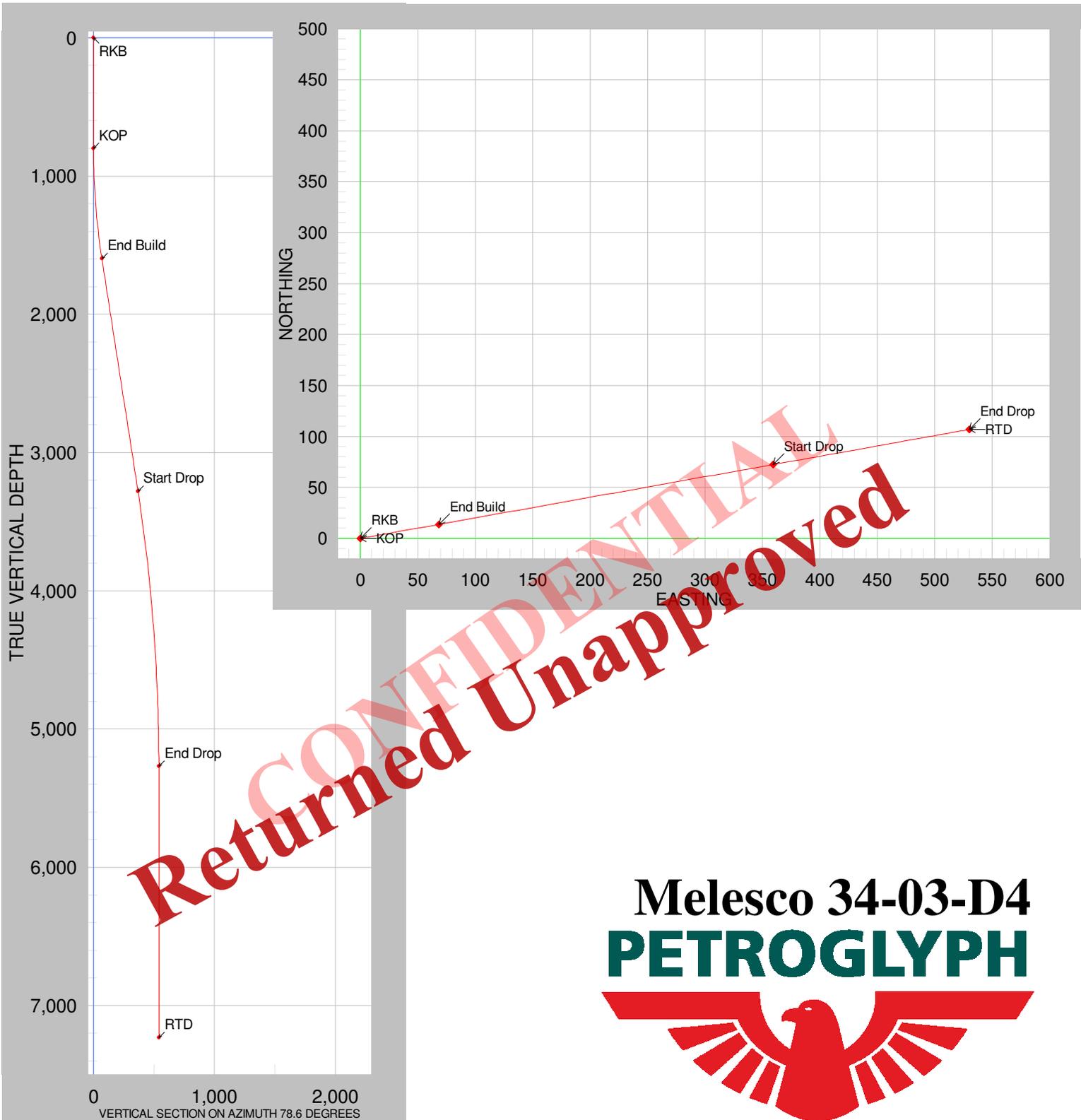
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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





# Melesco 34-03-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	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
2	End Build	Build	1600.00	10.00	78.60	1595.94	13.76	68.26	1.25	69.64
3	Start Drop	Tangent	3310.00	10.00	78.60	3279.97	72.46	359.34	0.00	366.57
4	End Drop	Drop	5310.00	0.00	0.00	5269.83	106.87	530.00	0.50	540.66
5	RTD	Vertical	7272.00	0.00	0.00	7231.83	106.87	530.00	0.00	540.66

## Melesco 34-03-D4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	16:19 Tuesday, September 16, 2014 Page 1 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 78.6
<b>Well Name</b> Melesco 34-03-D4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 761' FNL & 1450' FWL BHL: 660' FNL & 1980' FWL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**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	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			
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.00	0.0	650.00	0.00	0.00	0.00	0.00			
700.00	0.00	0.0	700.00	0.00	0.00	0.00	0.00			
750.00	0.00	0.0	750.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 800.00)										
800.00	0.00	0.0	800.00	0.00	0.00	0.00	0.00			
850.00	0.63	78.6	850.00	0.05	0.27	1.25	0.27			
900.00	1.25	78.6	899.99	0.22	1.07	1.25	1.09			
950.00	1.88	78.6	949.97	0.49	2.41	1.25	2.45			
1000.00	2.50	78.6	999.94	0.86	4.28	1.25	4.36			
1050.00	3.13	78.6	1049.88	1.35	6.68	1.25	6.82			
1100.00	3.75	78.6	1099.79	1.94	9.62	1.25	9.81			
1150.00	4.38	78.6	1149.66	2.64	13.09	1.25	13.36			
1200.00	5.00	78.6	1199.49	3.45	17.10	1.25	17.44			
1250.00	5.63	78.6	1249.28	4.36	21.64	1.25	22.07			
1300.00	6.25	78.6	1299.01	5.38	26.71	1.25	27.24			
1350.00	6.88	78.6	1348.68	6.51	32.31	1.25	32.96			
1400.00	7.50	78.6	1398.29	7.75	38.44	1.25	39.21			
1450.00	8.13	78.6	1447.82	9.09	45.10	1.25	46.01			
1500.00	8.75	78.6	1497.28	10.54	52.29	1.25	53.35			
1550.00	9.38	78.6	1546.66	12.10	60.01	1.25	61.22			
*** END BUILD (at MD = 1600.00)										
1600.00	10.00	78.6	1595.94	13.76	68.26	1.25	69.64			

## Melesco 34-03-D4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	16:19 Tuesday, September 16, 2014 Page 2 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 78.6
<b>Well Name</b> Melesco 34-03-D4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
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<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**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
1650.00	10.00	78.6	1645.19	15.48	76.77	0.00	78.32			
1700.00	10.00	78.6	1694.43	17.20	85.28	0.00	87.00			
1750.00	10.00	78.6	1743.67	18.91	93.80	0.00	95.68			
1800.00	10.00	78.6	1792.91	20.63	102.31	0.00	104.37			
1850.00	10.00	78.6	1842.15	22.34	110.82	0.00	113.05			
1900.00	10.00	78.6	1891.39	24.06	119.33	0.00	121.73			
1950.00	10.00	78.6	1940.63	25.78	127.84	0.00	130.41			
2000.00	10.00	78.6	1989.87	27.49	136.35	0.00	139.10			
2050.00	10.00	78.6	2039.11	29.21	144.86	0.00	147.78			
2100.00	10.00	78.6	2088.35	30.93	153.37	0.00	156.46			
2150.00	10.00	78.6	2137.59	32.64	161.88	0.00	165.14			
2200.00	10.00	78.6	2186.83	34.36	170.40	0.00	173.83			
2250.00	10.00	78.6	2236.07	36.07	178.91	0.00	182.51			
2300.00	10.00	78.6	2285.31	37.79	187.42	0.00	191.19			
2350.00	10.00	78.6	2334.55	39.51	195.93	0.00	199.87			
2400.00	10.00	78.6	2383.79	41.22	204.44	0.00	208.55			
2450.00	10.00	78.6	2433.03	42.94	212.95	0.00	217.24			
2500.00	10.00	78.6	2482.27	44.65	221.46	0.00	225.92			
2550.00	10.00	78.6	2531.51	46.37	229.97	0.00	234.60			
2600.00	10.00	78.6	2580.75	48.09	238.48	0.00	243.28			
2650.00	10.00	78.6	2629.99	49.80	247.00	0.00	251.97			
2700.00	10.00	78.6	2679.23	51.52	255.51	0.00	260.65			
2750.00	10.00	78.6	2728.47	53.24	264.02	0.00	269.33			
2800.00	10.00	78.6	2777.71	54.95	272.53	0.00	278.01			
2850.00	10.00	78.6	2826.95	56.67	281.04	0.00	286.70			
2900.00	10.00	78.6	2876.19	58.38	289.55	0.00	295.38			
2950.00	10.00	78.6	2925.44	60.10	298.06	0.00	304.06			
3000.00	10.00	78.6	2974.68	61.82	306.57	0.00	312.74			
3050.00	10.00	78.6	3023.92	63.53	315.08	0.00	321.43			
3100.00	10.00	78.6	3073.16	65.25	323.60	0.00	330.11			
3150.00	10.00	78.6	3122.40	66.96	332.11	0.00	338.79			
3200.00	10.00	78.6	3171.64	68.68	340.62	0.00	347.47			
3250.00	10.00	78.6	3220.88	70.40	349.13	0.00	356.16			
3300.00	10.00	78.6	3270.12	72.11	357.64	0.00	364.84			



## Melesco 34-03-D4, Plan 1

<b>Operator</b>		<b>Units</b> feet, %/100ft		16:19 Tuesday, September 16, 2014 Page 3 of 5						
<b>Field</b>		<b>County</b> Duchesne		<b>Vertical Section Azimuth</b> 78.6						
<b>Well Name</b> Melesco 34-03-D4		<b>State</b> UT		<b>Survey Calculation Method</b> Minimum Curvature						
<b>Plan</b> 1		<b>Country</b> USA		<b>Database</b> Access						
<b>Location</b> SHL: 761' FNL & 1450' FWL BHL: 660' FNL & 1980' FWL		<b>MapZone</b>		<b>Lat Long Ref</b>						
<b>Site</b>		<b>SurfaceX</b>		<b>Surface Long</b>						
<b>Slot Name</b>		<b>SurfaceY</b>		<b>Surface Lat</b>						
<b>Well Number</b>		<b>Z Datum</b>								
<b>Project</b>		<b>Surface Z</b>		<b>Ground Level</b>						
<b>DIRECTIONAL WELL PLAN</b>										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** START DROP (at MD = 3310.00)										
3310.00	10.00	78.6	3279.97	72.46	359.34	0.00	366.57			
3350.00	9.80	78.6	3319.37	73.82	366.08	0.50	373.45			
3400.00	9.55	78.6	3368.66	75.48	374.32	0.50	381.85			
3450.00	9.30	78.6	3417.98	77.09	382.35	0.50	390.04			
3500.00	9.05	78.6	3467.34	78.67	390.16	0.50	398.02			
3550.00	8.80	78.6	3516.74	80.20	397.77	0.50	405.77			
3600.00	8.55	78.6	3566.17	81.69	405.16	0.50	413.31			
3650.00	8.30	78.6	3615.63	83.14	412.34	0.50	420.64			
3700.00	8.05	78.6	3665.12	84.55	419.31	0.50	427.75			
3750.00	7.80	78.6	3714.64	85.91	426.07	0.50	434.64			
3800.00	7.55	78.6	3764.19	87.23	432.61	0.50	441.32			
3850.00	7.30	78.6	3813.77	88.5	438.95	0.50	447.78			
3900.00	7.05	78.6	3863.38	89.74	445.07	0.50	454.03			
3950.00	6.80	78.6	3913.0	90.93	450.98	0.50	460.06			
4000.00	6.55	78.6	3962.68	92.08	456.68	0.50	465.87			
4050.00	6.30	78.6	4012.36	93.19	462.16	0.50	471.46			
4100.00	6.05	78.6	4062.07	94.25	467.43	0.50	476.84			
4150.00	5.80	78.6	4111.81	95.27	472.49	0.50	482.00			
4200.00	5.55	78.6	4161.56	96.25	477.34	0.50	486.95			
4250.00	5.30	78.6	4211.34	97.18	481.97	0.50	491.67			
4300.00	5.05	78.6	4261.13	98.07	486.39	0.50	496.18			
4350.00	4.80	78.6	4310.95	98.92	490.60	0.50	500.48			
4400.00	4.55	78.6	4360.78	99.73	494.60	0.50	504.55			
4450.00	4.30	78.6	4410.63	100.49	498.38	0.50	508.41			
4500.00	4.05	78.6	4460.50	101.21	501.95	0.50	512.05			
4550.00	3.80	78.6	4510.38	101.89	505.30	0.50	515.47			
4600.00	3.55	78.6	4560.28	102.52	508.44	0.50	518.68			
4650.00	3.30	78.6	4610.19	103.11	511.37	0.50	521.66			
4700.00	3.05	78.6	4660.12	103.66	514.09	0.50	524.43			
4750.00	2.80	78.6	4710.05	104.16	516.59	0.50	526.98			
4800.00	2.55	78.6	4760.00	104.62	518.87	0.50	529.32			
4850.00	2.30	78.6	4809.95	105.04	520.95	0.50	531.43			
4900.00	2.05	78.6	4859.91	105.42	522.81	0.50	533.33			
4950.00	1.80	78.6	4909.89	105.75	524.46	0.50	535.01			



## Melesco 34-03-D4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	16:19 Tuesday, September 16, 2014 Page 4 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 78.6
<b>Well Name</b> Melesco 34-03-D4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 761' FNL & 1450' FWL BHL: 660' FNL & 1980' FWL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5000.00	1.55	78.6	4959.87	106.04	525.89	0.50	536.47			
5050.00	1.30	78.6	5009.85	106.28	527.11	0.50	537.72			
5100.00	1.05	78.6	5059.84	106.49	528.11	0.50	538.74			
5150.00	0.80	78.6	5109.83	106.65	528.90	0.50	539.55			
5200.00	0.55	78.6	5159.83	106.76	529.48	0.50	540.14			
5250.00	0.30	78.6	5209.83	106.84	529.84	0.50	540.51			
5300.00	0.05	78.6	5259.83	106.87	529.99	0.50	540.66			
*** END DROP (at MD = 5310.00)										
5310.00	0.00	0.0	5269.83	106.87	530.00	0.50	540.66			
5350.00	0.00	0.0	5309.83	106.87	530.00	0.00	540.66			
5400.00	0.00	0.0	5359.83	106.87	530.00	0.00	540.66			
5450.00	0.00	0.0	5409.83	106.87	530.00	0.00	540.66			
5500.00	0.00	0.0	5459.83	106.87	530.00	0.00	540.66			
5550.00	0.00	0.0	5509.83	106.87	530.00	0.00	540.66			
5600.00	0.00	0.0	5559.83	106.87	530.00	0.00	540.66			
5650.00	0.00	0.0	5609.83	106.87	530.00	0.00	540.66			
5700.00	0.00	0.0	5659.83	106.87	530.00	0.00	540.66			
5750.00	0.00	0.0	5709.83	106.87	530.00	0.00	540.66			
5800.00	0.00	0.0	5759.83	106.87	530.00	0.00	540.66			
5850.00	0.00	0.0	5809.83	106.87	530.00	0.00	540.66			
5900.00	0.00	0.0	5859.83	106.87	530.00	0.00	540.66			
5950.00	0.00	0.0	5909.83	106.87	530.00	0.00	540.66			
6000.00	0.00	0.0	5959.83	106.87	530.00	0.00	540.66			
6050.00	0.00	0.0	6009.83	106.87	530.00	0.00	540.66			
6100.00	0.00	0.0	6059.83	106.87	530.00	0.00	540.66			
6150.00	0.00	0.0	6109.83	106.87	530.00	0.00	540.66			
6200.00	0.00	0.0	6159.83	106.87	530.00	0.00	540.66			
6250.00	0.00	0.0	6209.83	106.87	530.00	0.00	540.66			
6300.00	0.00	0.0	6259.83	106.87	530.00	0.00	540.66			
6350.00	0.00	0.0	6309.83	106.87	530.00	0.00	540.66			
6400.00	0.00	0.0	6359.83	106.87	530.00	0.00	540.66			
6450.00	0.00	0.0	6409.83	106.87	530.00	0.00	540.66			
6500.00	0.00	0.0	6459.83	106.87	530.00	0.00	540.66			
6550.00	0.00	0.0	6509.83	106.87	530.00	0.00	540.66			
6600.00	0.00	0.0	6559.83	106.87	530.00	0.00	540.66			



## Melesco 34-03-D4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	16:19 Tuesday, September 16, 2014 Page 5 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 78.6
<b>Well Name</b> Melesco 34-03-D4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 761' FNL & 1450' FWL BHL: 660' FNL & 1980' FWL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

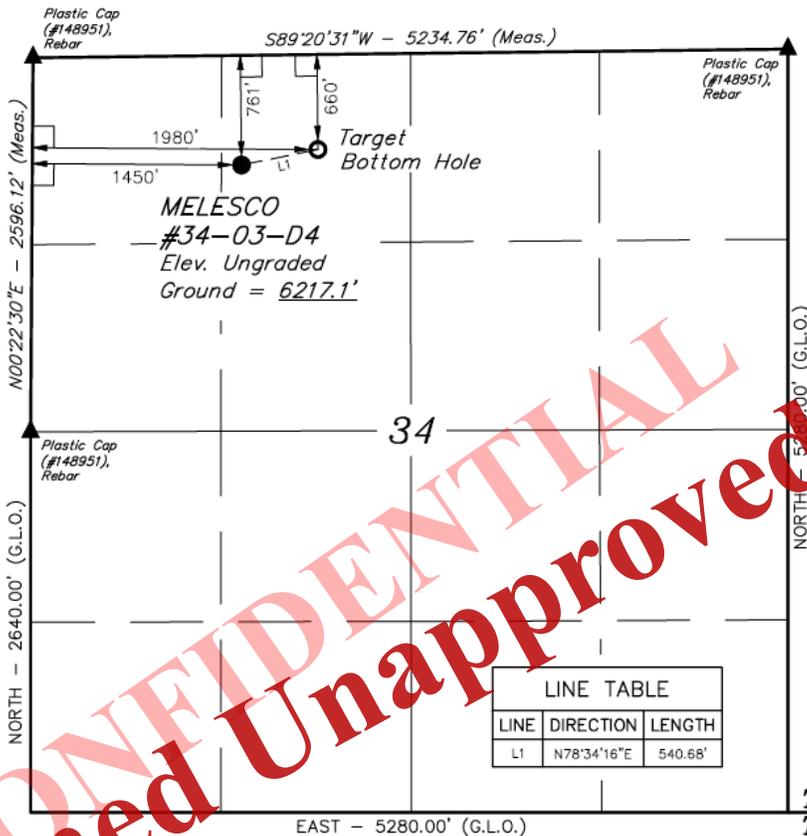
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6609.83	106.87	530.00	0.00	540.66			
6700.00	0.00	0.0	6659.83	106.87	530.00	0.00	540.66			
6750.00	0.00	0.0	6709.83	106.87	530.00	0.00	540.66			
6800.00	0.00	0.0	6759.83	106.87	530.00	0.00	540.66			
6850.00	0.00	0.0	6809.83	106.87	530.00	0.00	540.66			
6900.00	0.00	0.0	6859.83	106.87	530.00	0.00	540.66			
6950.00	0.00	0.0	6909.83	106.87	530.00	0.00	540.66			
7000.00	0.00	0.0	6959.83	106.87	530.00	0.00	540.66			
7050.00	0.00	0.0	7009.83	106.87	530.00	0.00	540.66			
7100.00	0.00	0.0	7059.83	106.87	530.00	0.00	540.66			
7150.00	0.00	0.0	7109.83	106.87	530.00	0.00	540.66			
7200.00	0.00	0.0	7159.83	106.87	530.00	0.00	540.66			
7250.00	0.00	0.0	7209.83	106.87	530.00	0.00	540.66			
*** RTD (at MD = 7272.00)										
7272.00	0.00	0.0	7261.83	106.87	530.00	0.00	540.66			

Returned Unapproved

**LEGEND:**

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

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



CONFIDENTIAL  
 Returned Unapproved



<b>NAD 83 (TARGET BOTTOM HOLE)</b> LATITUDE = 40°05'45.44" (40.095956) LONGITUDE = 110°19'32.44" (110.325678)	<b>NAD 83 (SURFACE LOCATION)</b> LATITUDE = 40°05'44.38" (40.095661) LONGITUDE = 110°19'39.26" (110.327572)
<b>NAD 27 (TARGET BOTTOM HOLE)</b> LATITUDE = 40°05'45.58" (40.095994) LONGITUDE = 110°19'29.88" (110.324967)	<b>NAD 27 (SURFACE LOCATION)</b> LATITUDE = 40°05'44.53" (40.095703) LONGITUDE = 110°19'36.70" (110.326861)

**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.



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

**BASIS OF ELEVATION**  
 BENCHMARK (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.

**PETROGLYPH OPERATING CO., INC.**

**MELESCO #34-03-D4**  
 NE 1/4 NW 1/4, SECTION 34, T4S, R4W U.S.B.&M.  
 DUCHESNE COUNTY, UTAH

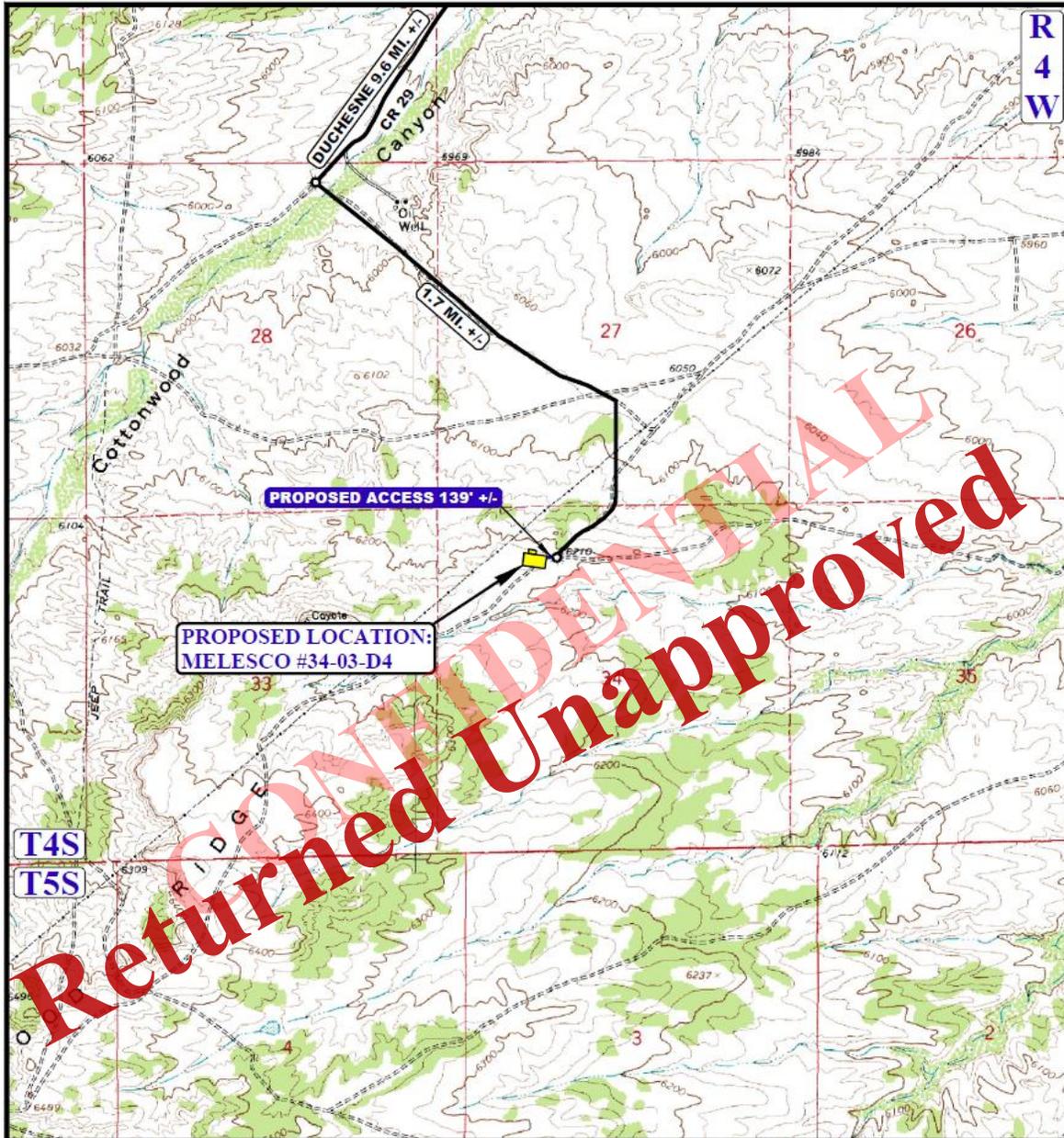
SURVEYED BY: G.M., S.G.	SURVEY DATE: 09-05-14
DRAWN BY: R.A.	DATE DRAWN: 09-09-14
SCALE: 1" = 1000'	REVISED: 00-00-00



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



**WELL LOCATION PLAT**



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 UINAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ROAD

**PETROGLYPH OPERATING CO., INC.**

MELESCO #34-03-D4  
SECTION 34, T4S, R4W, U.S.B.&M.  
761' ENL 1450' FWL



DRAWN BY: A.W.	DATE DRAWN: 09-10-14
SCALE: 1" = 2000'	REVISED: 00-00-00
<b>ACCESS ROAD MAP</b>	<b>TOPO B</b>



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

## SURFACE USE AGREEMENT

THIS Surface Use Agreement is made and entered into this 12 day of February, 2012 by and between **Petroglyph Operating Company, Inc.**, (Petroglyph), whose mailing address is P.O. Box 70019 Boise, ID 83707, and **Denmark L. Jensen**, whose address is 650 North 300 East Pleasant Grove, UT 84062 (Surface Owner).

WITNESSETH:

WHEREAS, Petroglyph Energy, Inc. is Lessee under a certain Oil and Gas Lease granted by David A. Melesco, Lessor, said Oil and Gas Lease dated May 20, 2008, recorded at Book M324 Page 93, records of Duchesne County, Utah covering the following lands in Duchesne County, Utah:

**Township 4 South, Range 4 West, USB&M**  
**Section 34: N/2 320 acres, more or less**

WHEREAS, **Denmark L. Jensen** is the present Surface Owner of a portion of said lands including Lots 94 and 95 of Phase 2 of the Moondance Ranch Subdivision, said lots situate within the N/2 of Section 34, T4S, R4W as shown on the plat attached hereto as Exhibit "A", and

WHEREAS, the parties hereto enter into this agreement to establish the terms under which Petroglyph, on behalf of Petroglyph Energy, Inc. shall conduct oil and gas exploration and development operations on said lands.

NOW THEREFORE, and in consideration of the sum of ten and more dollars (\$10.00 +) the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

For a period of five (5) years from the date of this agreement, Petroglyph may conduct all necessary operations for the drilling and producing of as many as two oil and gas exploration and development wells and construct the roads and pipelines necessary to service same on Surface Owner's lands. Petroglyph agrees to pay Surface Owner the sum of \$2,000.00 per well for inclusive wellsite damages, said payment to be made at the time of commencement of each well on said lands. In addition, Petroglyph will pay the sum of \$20.00 per rod for road and pipeline right of way (30 feet in width) for use in its operations on said land and or used in conjunction with operations on adjoining lands, said sum payable as roads and pipelines are constructed. At the end of said five year period, Petroglyph's right to drill additional wells shall cease but Petroglyph may continue to operate, service and maintain all wells, roads and pipelines then on said lands as long thereafter as said wells are capable of producing oil and or gas. Further, Petroglyph shall tender to Surface Owner an annual rental equal to \$1,000.00 for each well established on said lands, said amount due and payable on or before the anniversary date and subsequent anniversary dates of the initial well site damage payment, until such time as Petroglyph has plugged and abandoned the well(s), removed its equipment therefrom and has effected practicable restoration of the wellsite(s).

It is understood and agreed that Petroglyph may not conduct any exploration or drilling operations within 500 feet of Surface Owner's home site as shown on the attached Exhibit "A", and Petroglyph agrees to consult with surface owner as to the location of both wells and all roads and pipelines on said lands, and to post permanent signs to mark well sites and access roads. Petroglyph agrees to conduct its operations on all lands in keeping with good oil field standards and to maintain its wellsites, roads, and facilities in proper, safe and tidy condition. During drilling, completion, and re-completion operations on said lands, Petroglyph agrees, to promptly restore, clean and police the area affected, including, but not limited to pits and the like. Petroglyph agrees to construct all roads so as to reasonably minimize erosion, to effect practicable restoration of any lands used in its operations, and upon final cessation of operations, to promptly remove all equipment from the affected premises. Should Petroglyph fail in this regard, Petroglyph shall be liable to Surface Owner for Surface Owners cost in complying with these provisions.

When requested by Surface Owner, if necessary to prevent erosion, Petroglyph agrees to properly gravel all its roads and wellsite turnarounds on the leased premises. Petroglyph agrees to keep all noxious weeds, including but not limited to scotch thistle, under control on all areas disturbed by Petroglyph.

This Surface Use Agreement shall not be construed to diminish or limit in any way Petroglyph's right to the reasonable use of the surface pursuant to the terms and conditions of its Oil and Gas Leases. The rights and obligations of the parties hereunder shall extend to their respective heirs, devisees, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, this Surface Use Agreement has been executed as of the first date written above.

**Petroglyph Operating Company, Inc.**

by: Paul R. Powell

**Surface Owner**

Denmark L. Jensen  
**Denmark L. Jensen**

State of Idaho  
County of Ada

BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 8<sup>th</sup> day of March, 2012, personally appeared Paul R. Powell to me personally known, who, being by me duly sworn, did say that he is the President of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Paul R. Powell acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal this 8<sup>th</sup> day of March, 2012

My Commission expires: 6-21-2013

Vera Alexander  
Notary Public



State of Utah  
County of Ut

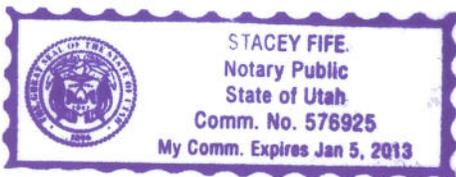
On this 23 day of February, 2012, before me, the undersigned Notary Public in and for said county and state, personally appeared **Denmark L. Jensen** known to me to be the person or persons whose name(s) are subscribed to the foregoing instrument, and acknowledged that the same was executed and delivered as his/her/their free and voluntary act for the purposes therein set forth. In witness whereof I hereunto set my hand and official seal as of the date hereinabove stated.

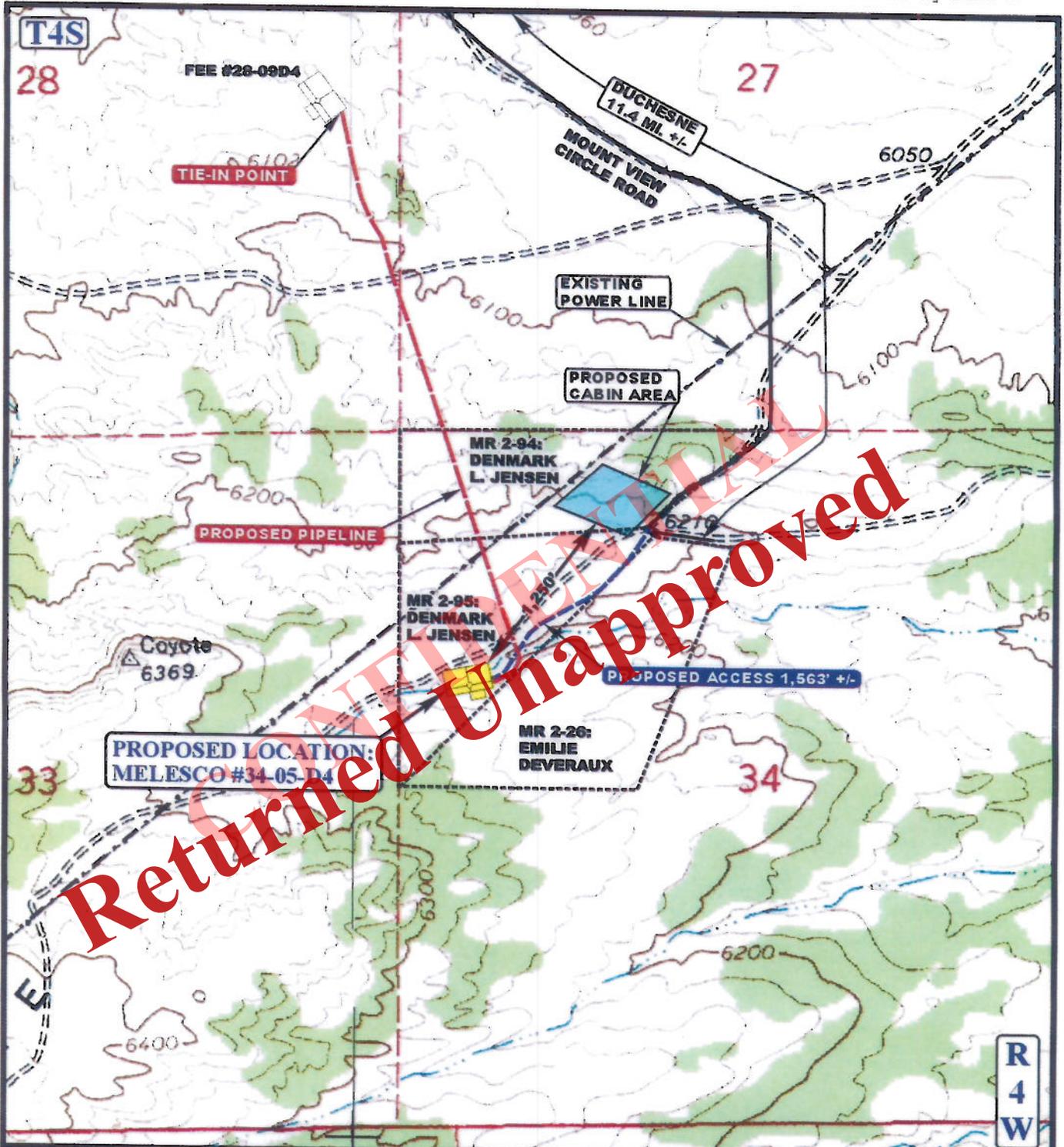
Witness my hand and seal this 23rd day of February, 2012

My Commission Expires: Jan 5, 2013

Stacey Fife  
Notary Public

SEAL





Returned Unapproved

LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- EXISTING POWER LINE

PETROGLYPH OPERATING CO., INC.

MELESCO #34-05-D4  
 SECTION 34, T4S, R4W, U.S.B.&M.  
 1890' FNL 526' FWL



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



ACCESS ROAD  
 MAP  
 SCALE: 1" = 1000' DRAWN BY: A.T. REVISED: 00-00-00

02 08 12  
 MONTH DAY YEAR

TOPO  
 1

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

September 18, 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

Melesco 34-03-D4      761 FNL & 1450 FWL, NE/NW, (Surface Hole)  
                                 660 FNL & 1980 FWL, NE/NW, (Bottom Hole)  
                                 Sec. 34, T4S, R4W, U.S.B.&M.,  
                                 Duchesne County, Utah

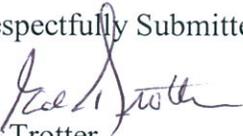
Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc. Application for Permit to Drill regarding the above referenced well on September 18, 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 Melesco 34-03-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,  
Agent  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420  
E-mail: edtrotter@easilink.com

**Received: November 06, 2014**

**Certification**

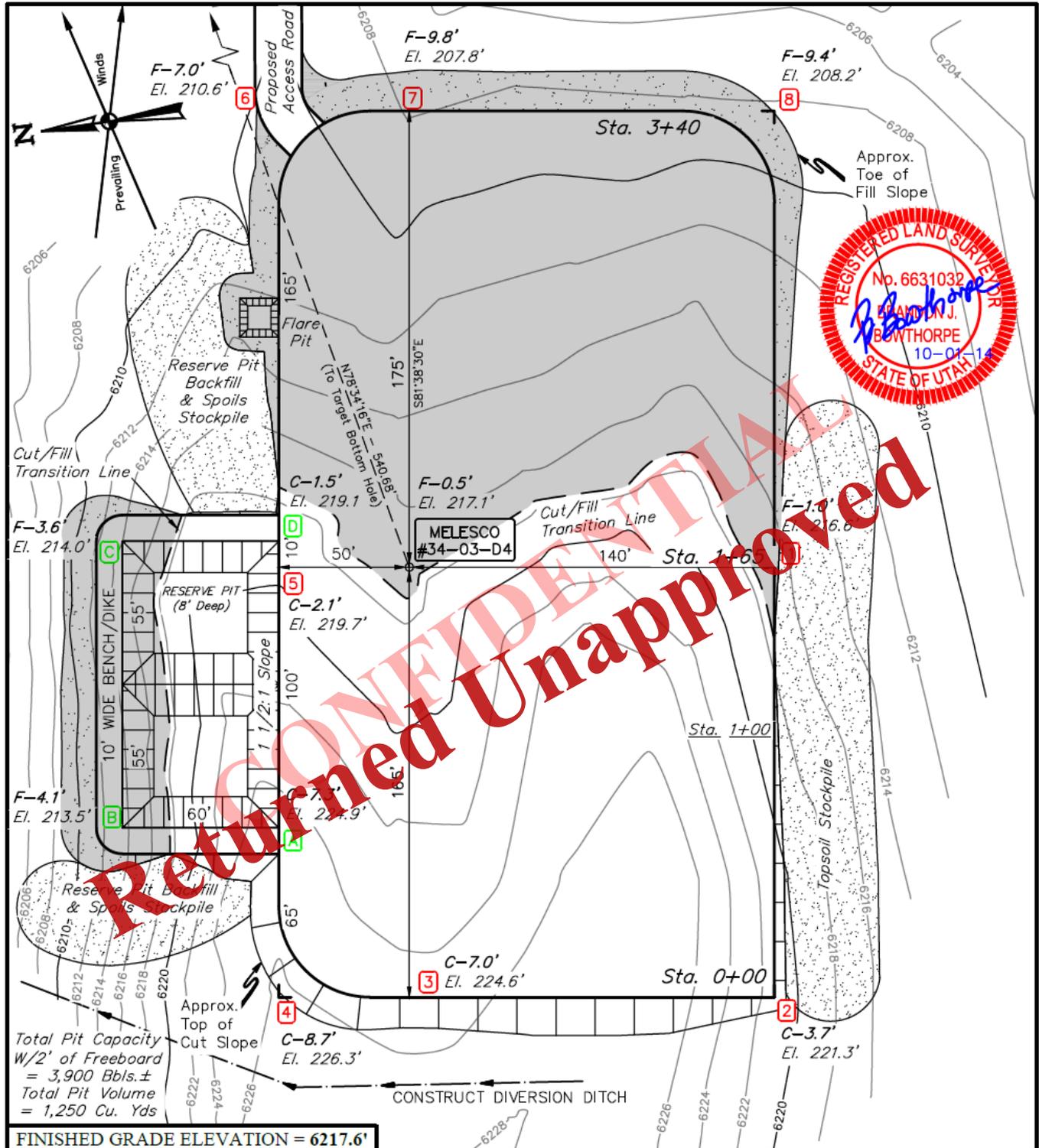
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with 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 **Melesco 34-03-D4 Well, located in NE/NW of Section 34, 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.

9-18-2014  
Date

[Signature]  
Agent

**CONFIDENTIAL**  
**Returned Unapproved**



**FINISHED GRADE ELEVATION = 6217.6'**

**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.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.

**PETROGLYPH OPERATING CO., INC.**

**MELESCO #34-03-D4  
SECTION 34, T4S, R4W, U.S.B.&M.  
761' FNL 1450' FWL**



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

DRAWN BY: R.A.	DATE DRAWN: 09-09-14
SCALE: 1" = 50'	REVISED: 10-01-14
<b>LOCATION LAYOUT</b>	<b>FIGURE #1</b>

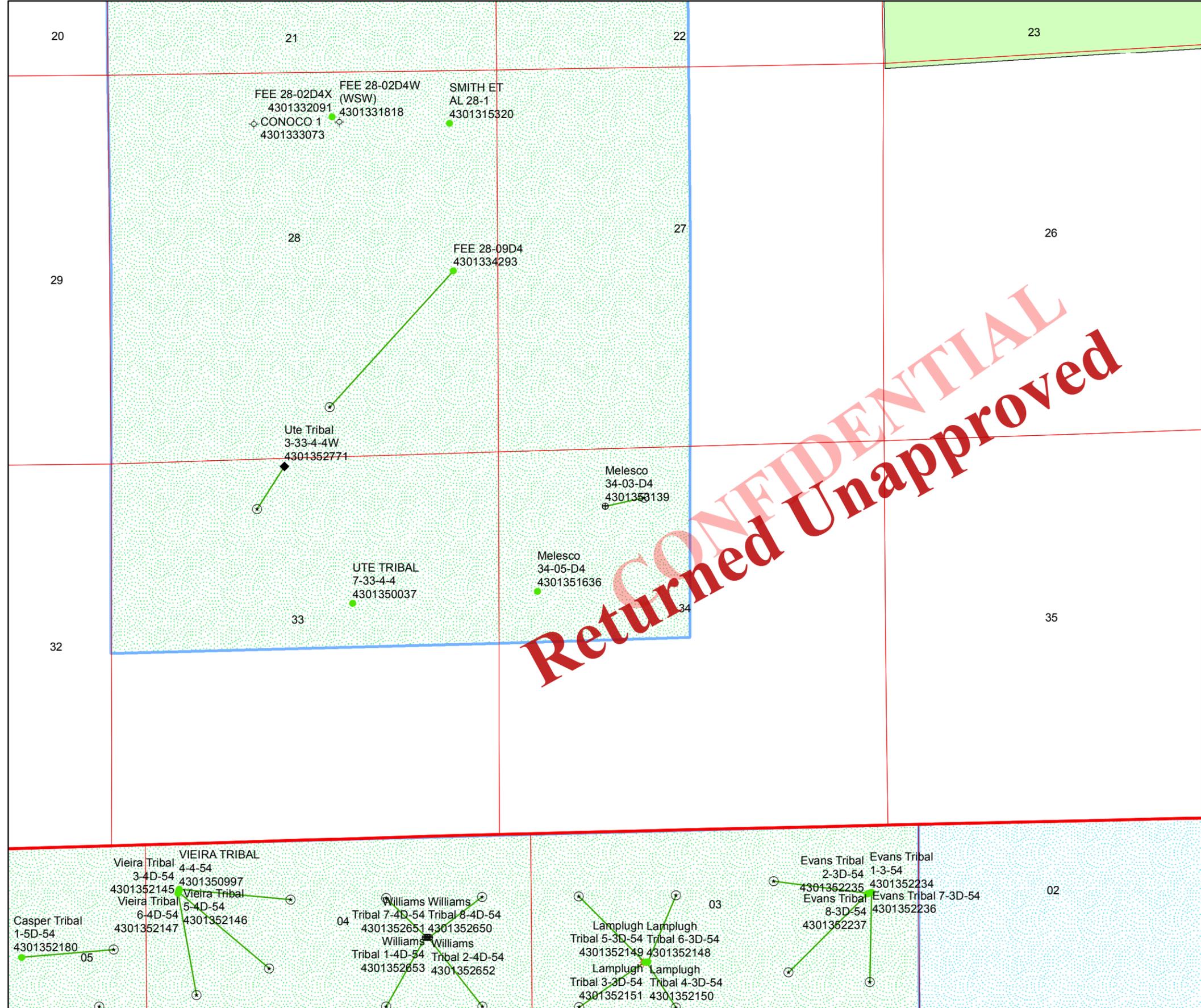
API Number: 43-013-53139

Well Name: Melesco 34-03-D4

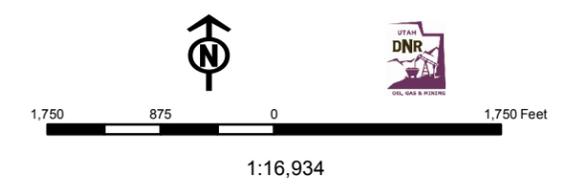
Township: 4S Range: 4W Section: 34 Meridian: USM

Operator: PETROGLYPH OPERATING CO

Map Prepared: Oct. 2, 2014  
Map Produced by Lisha Cordova



<b>Wells Query</b>		<b>Units</b>	
<b>Status</b>		<b>STATUS</b>	
◆ APD - Aproved Permit		ACTIVE	
⊙ DRL - Spuded (Drilling Commenced)		EXPLORATORY	
⚡ GIW - Gas Injection		GAS STORAGE	
★ GS - Gas Storage		NF PP OIL	
⊕ LOC - New Location		NF SECONDARY	
⚠ OPS - Operation Suspended		PI OIL	
⊖ PA - Plugged Abandoned		PP GAS	
⚡ PGW - Producing Gas Well		PP GEOTHERML	
● POW - Producing Oil Well		PP OIL	
⚡ SGW - Shut-in Gas Well		SECONDARY	
● SOW - Shut-in Oil Well		TERMINATED	
⚡ TA - Temp. Abandoned			
○ TW - Test Well		<b>Fields</b>	
⚡ WDW - Water Disposal		<b>STATUS</b>	
⚡ WW - Water Injection Well		Unknown	
● WSW - Water Supply Well		ABANDONED	
		ACTIVE	
		COMBINED	
		INACTIVE	
		STORAGE	
		TERMINATED	





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*

September 20, 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 Melesco 34-03-D4 well, API 43013531390000 that was submitted September 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



