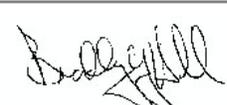


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 21-14M				
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 ANTELOPE CREEK				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME ANTELOPE CREEK				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7674				
8. ADDRESS OF OPERATOR 960 Broadway Ave, Ste 500, Bosie, ID, 83703						9. OPERATOR E-MAIL bwest@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-3516			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		688 FSL 2107 FWL		SESW	21	5.0 S	3.0 W	U		
Top of Uppermost Producing Zone		1280 FSL 1550 FWL		SESW	21	5.0 S	3.0 W	U		
At Total Depth		1280 FSL 1550 FWL		SESW	21	5.0 S	3.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 688			23. NUMBER OF ACRES IN DRILLING UNIT 533				
27. ELEVATION - GROUND LEVEL 6353			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1352			26. PROPOSED DEPTH MD: 6213 TVD: 6213				
28. BOND NUMBER BO 4556			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	18	14	0 - 40	5.0	Unknown	10.0	Class G	25	1.17	15.8
SURF	12.25	8.625	0 - 480	24.0	J-55 ST&C	10.0	Class G	220	1.17	15.8
PROD	8.75	5.5	0 - 6213	15.5	J-55 LT&C	10.0	Class G	516	1.91	12.5
							Class G	342	1.46	13.4
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" 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 06/23/2011			EMAIL edtrotter@easilink.com			
API NUMBER ASSIGNED 43013508630000				APPROVAL  Permit Manager						

CONFIDENTIAL
EIGHT POINT PLAN

UTE TRIBAL 21-14M
SE/SW, SEC. 21, T5S, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Trona	2757	3617
Mahogany Shale	2901	3475
“B” Marker	4003	2386
“X” Marker	4489	1905
Douglas Creek	4636	1760
“B” Limestone	5015	1385
B/Castle Peak Limestone	5583	824
BSCARB	6009	403
Total Depth	6213	
Anticipated Maximum BHP	1900	

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4636	1760
Oil/Gas	B/Castle Peak	5583	824
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.**4. CASING PROGRAM:**

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18”	14”	sfc	40’	steel	cond	none
12 ¼”	8 5/8”	sfc	480’	24.0	J-55	STC
8 ¾”	5 1/2”	sfc	6213’	15.5	J-55	LTC

Casing Strengths:				Collapse	Burst	Tensile
8 5/8”	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2”	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

CONFIDENTIAL
EIGHT POINT PLAN

UTE TRIBAL 21-14M
SE/SW, SEC. 21, T5S, R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 480'
480' - TD

MUD TYPE

Air/Aerated Water
Water with DAP or DAP alternative
Gel/polyacrylamide polymer w/5-10% LCM, LSND as conditions warrant

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. CEMENT PROGRAM:

20" Conductor:

Cement to surface with construction cement.

8 5/8" Casing: sfc - 500'

Lead/Tail Slurry: 0' - 500': 220 sks (257 cu ft) Class G cement + 0.25 lbsk Cello Flake + 2% CaCl₂. Slurry wt: 15.8 ppg, Slurry yield: 1.17 ft³/sk, Slurry volume: 12-1/4" hole + 30% excess. (Cement will be circulated to surface).

5 1/2" Casing: sfc - 6213'

Lead Slurry: sfc - 4000': 516 sks (986 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR 1/4 (Lost Circulation Material) (12.5 PPG±, 1.91 ft³/sk) hole + 30% excess.

Tail Slurry:

4000' - 6213': 342 sx (499 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR 1/4 (Lost Circulation Material) (13.4 ppg±, 1.46ft³/sk) hole + 30% excess. Cement will be circulated to surface.

7. VARIANCE REQUESTS:

- A. Petroglyph Operating Company, Inc. requests a variance to regulations requiring a straight run blooie line during drilling of surface hole.
- B. Petroglyph Operating Company, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line during drilling of surface hole.

CONFIDENTIAL
EIGHT POINT PLAN

UTE TRIBAL 21-14M
SE/SW, SEC. 21, T5S, R3W
DUCHESNE COUNTY, UTAH

- C. Petroglyph Operating Company, Inc. requests a variance to regulations requiring 100' of blooie line discharge from the well head during drilling of surface hole.
- D. Petroglyph Operating Company, Inc. requests a variance to regulations for compressors to be 100' from well head during drilling of surface hole.

8. EVALUATION PROGRAM:

Logs: Platform Express TD to base of surface casing
(DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated

DST: None Programmed

Completion: To be submitted at a later date.

9. ABNORMAL CONDITIONS:

None anticipated.

10. STANDARD REQUIRED EQUIPMENT:

None Required

11. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

T5S, R3W, U.S.B.&M.

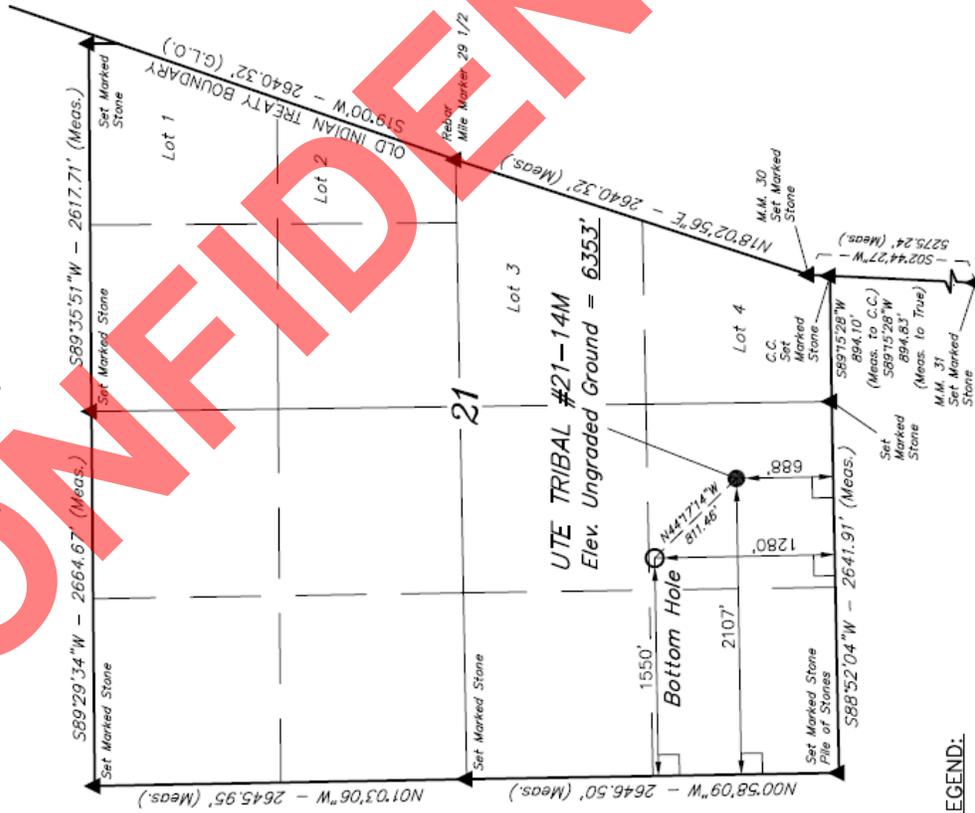
PETROGLYPH OPERATING CO., INC.
 Well location, UTE TRIBAL #21-14M, located as shown in the SE 1/4 SW 1/4 of Section 21, T5S, R3W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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

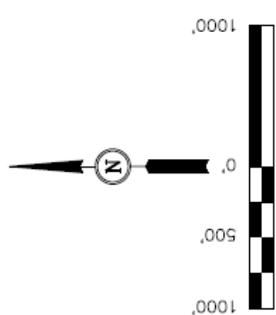
BASIS OF BEARINGS

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



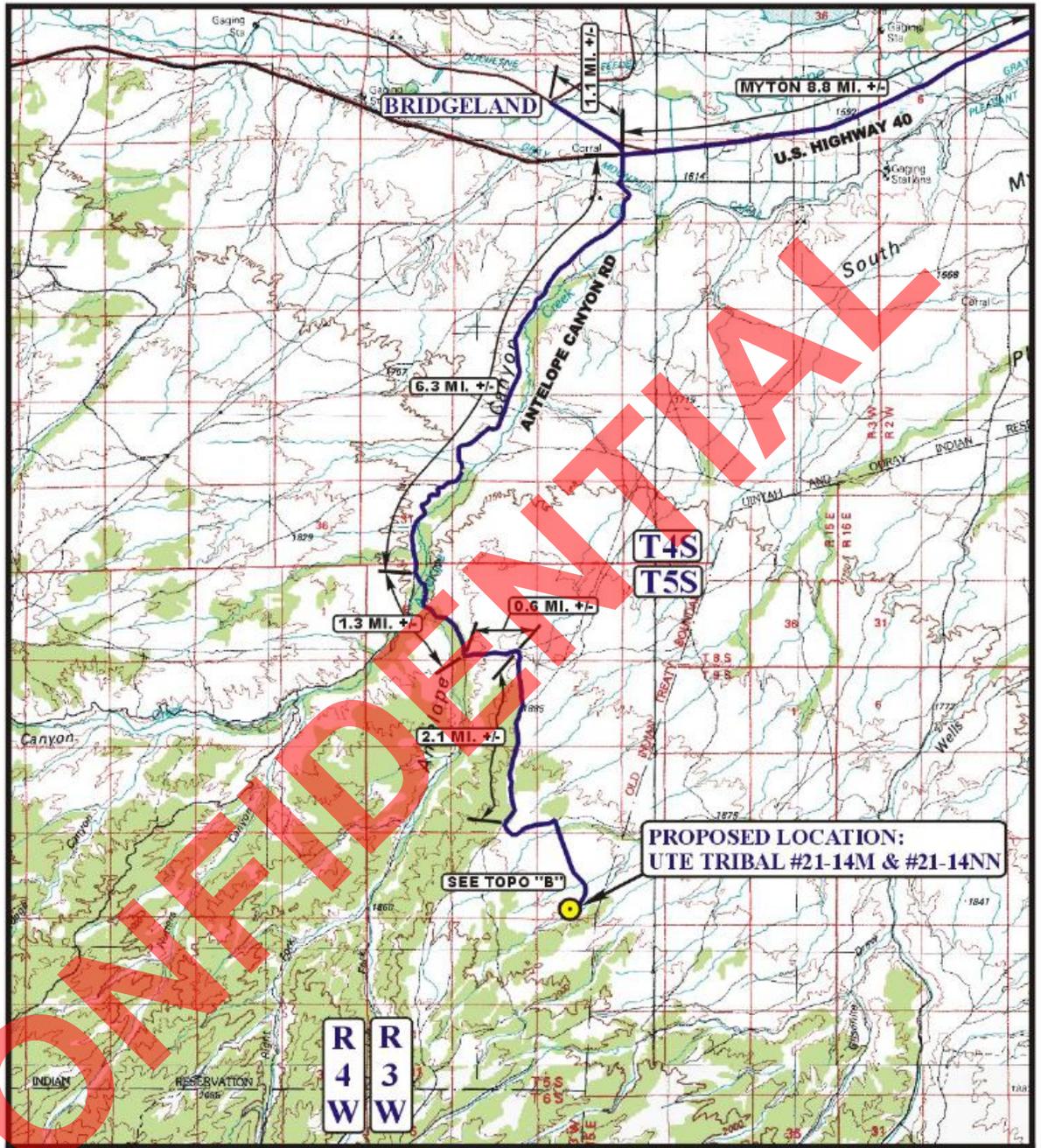
LEGEND:
 L = 90° SYMBOL
 ● = PROPOSED WELL HEAD.
 ▲ = SECTION CORNERS LOCATED.

NAD. 83 (SURFACE LOCATION)	NAD. 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°01'35.86" (40.028636)	LATITUDE = 40°01'41.71" (40.028253)
LONGITUDE = 110°13'47.70" (110.229917)	LONGITUDE = 110°13'54.88" (110.231911)
NAD. 27 (SURFACE LOCATION)	NAD. 27 (TARGET BOTTOM HOLE)
LATITUDE = 40°01'36.03" (40.028675)	LATITUDE = 40°01'41.85" (40.028292)
LONGITUDE = 110°13'45.15" (110.229208)	LONGITUDE = 110°13'52.33" (110.231203)



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.
DAVID E. BOBERTA
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 481319
 STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING	DATE SURVEYED:	DATE DRAWN:
85 SOUTH 200 EAST - VERNAL, UTAH 84078	02-15-11	03-02-11
(435) 789-1017	REFERENCES	
	G.S. G.B., C.C.	G.L.O. PLAT
SCALE: 1" = 1000'	FILE	PETROGLYPH OPERATING CO., INC.
	WEATHER	COLD



LEGEND:
 PROPOSED LOCATION

PETROGLYPH OPERATING CO., INC.
 UTE TRIBAL #21-14M & #21-14NN
 SECTION 21, T5S, R3W, U.S.B.&M.
 SE 1/4 SW 1/4

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

TOPOGRAPHIC MAP 02 25 11
 MONTH DAY YEAR
 SCALE: 1:100,000 DRAWN BY: C.A.G. REVISED: 06-28-11 **A TOPO**

Petroglyph Operating Co. Inc.

Duchesne County, UT NAD83

UTE Tribal 21-14M

UT 21-14M

Wellbore #1

Plan: Plan #1

Standard Planning Report

09 May, 2011

CONFIDENTIAL

Scientific Drilling International, Inc.

Planning Report

Database:	Rockies Compass Server	Local Co-ordinate Reference:	Well UT 21-14M
Company:	Petroglyph Operating Co. Inc.	TVD Reference:	WELL @ 6353.00ft (Original Well Elev)
Project:	Duchesne County, UT NAD83	MD Reference:	WELL @ 6353.00ft (Original Well Elev)
Site:	UTE Tribal 21-14M	North Reference:	True
Well:	UT 21-14M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Duchesne County, UT NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	UTE Tribal 21-14M				
Site Position:		Northing:	7,180,951.01 usft	Latitude:	40° 1' 35.890 N
From:	Lat/Long	Easting:	1,996,062.79 usft	Longitude:	110° 13' 47.700 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.81 °

Well	UT 21-14M, 688 FSL & 2107 FWL					
Well Position	+N/-S	0.00 ft	Northing:	7,180,951.01 usft	Latitude:	40° 1' 35.890 N
	+E/-W	0.00 ft	Easting:	1,996,062.79 usft	Longitude:	110° 13' 47.700 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/7/2011	11.40	65.75	52,249

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	316.52	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,195.93	8.70	316.52	1,193.26	38.26	-36.28	1.25	1.25	0.00	316.52	
6,213.39	8.70	316.52	6,153.00	588.89	-558.49	0.00	0.00	0.00	0.00	UT 21-14M Target

Scientific Drilling International, Inc.

Planning Report

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Company:	Petroglyph Operating Co. Inc.	TVD Reference:	WELL @ 6353.00ft (Original Well Elev)
Project:	Duchesne County, UT NAD83	MD Reference:	WELL @ 6353.00ft (Original Well Elev)
Site:	UTE Tribal 21-14M	North Reference:	True
Well:	UT 21-14M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	1.25	316.52	599.99	0.79	-0.75	1.09	1.25	1.25	0.00
700.00	2.50	316.52	699.94	3.17	-3.00	4.36	1.25	1.25	0.00
800.00	3.75	316.52	799.79	7.12	-6.75	9.81	1.25	1.25	0.00
900.00	5.00	316.52	899.49	12.66	-12.00	17.44	1.25	1.25	0.00
1,000.00	6.25	316.52	999.01	19.77	-18.75	27.24	1.25	1.25	0.00
1,100.00	7.50	316.52	1,098.29	28.45	-26.98	39.21	1.25	1.25	0.00
1,195.93	8.70	316.52	1,193.26	38.26	-36.28	52.73	1.25	1.25	0.00
1,200.00	8.70	316.52	1,197.28	38.71	-36.71	53.35	0.00	0.00	0.00
1,300.00	8.70	316.52	1,296.13	49.68	-47.12	68.47	0.00	0.00	0.00
1,400.00	8.70	316.52	1,394.98	60.65	-57.52	83.59	0.00	0.00	0.00
1,500.00	8.70	316.52	1,493.83	71.63	-67.93	98.72	0.00	0.00	0.00
1,600.00	8.70	316.52	1,592.68	82.60	-78.34	113.84	0.00	0.00	0.00
1,700.00	8.70	316.52	1,691.53	93.58	-88.75	128.97	0.00	0.00	0.00
1,800.00	8.70	316.52	1,790.38	104.55	-99.15	144.09	0.00	0.00	0.00
1,900.00	8.70	316.52	1,889.23	115.53	-109.56	159.22	0.00	0.00	0.00
2,000.00	8.70	316.52	1,988.08	126.50	-119.97	174.34	0.00	0.00	0.00
2,100.00	8.70	316.52	2,086.93	137.47	-130.38	189.47	0.00	0.00	0.00
2,200.00	8.70	316.52	2,185.78	148.45	-140.79	204.59	0.00	0.00	0.00
2,300.00	8.70	316.52	2,284.63	159.42	-151.19	219.72	0.00	0.00	0.00
2,400.00	8.70	316.52	2,383.48	170.40	-161.60	234.84	0.00	0.00	0.00
2,500.00	8.70	316.52	2,482.33	181.37	-172.01	249.97	0.00	0.00	0.00
2,600.00	8.70	316.52	2,581.18	192.35	-182.42	265.09	0.00	0.00	0.00
2,700.00	8.70	316.52	2,680.03	203.32	-192.82	280.21	0.00	0.00	0.00
2,800.00	8.70	316.52	2,778.88	214.29	-203.23	295.34	0.00	0.00	0.00
2,900.00	8.70	316.52	2,877.73	225.27	-213.64	310.46	0.00	0.00	0.00
3,000.00	8.70	316.52	2,976.58	236.24	-224.05	325.59	0.00	0.00	0.00
3,100.00	8.70	316.52	3,075.43	247.22	-234.45	340.71	0.00	0.00	0.00
3,200.00	8.70	316.52	3,174.27	258.19	-244.86	355.84	0.00	0.00	0.00
3,300.00	8.70	316.52	3,273.12	269.17	-255.27	370.96	0.00	0.00	0.00
3,400.00	8.70	316.52	3,371.97	280.14	-265.68	386.09	0.00	0.00	0.00
3,500.00	8.70	316.52	3,470.82	291.11	-276.09	401.21	0.00	0.00	0.00
3,600.00	8.70	316.52	3,569.67	302.09	-286.49	416.34	0.00	0.00	0.00
3,700.00	8.70	316.52	3,668.52	313.06	-296.90	431.46	0.00	0.00	0.00
3,800.00	8.70	316.52	3,767.37	324.04	-307.31	446.58	0.00	0.00	0.00
3,900.00	8.70	316.52	3,866.22	335.01	-317.72	461.71	0.00	0.00	0.00
4,000.00	8.70	316.52	3,965.07	345.98	-328.12	476.83	0.00	0.00	0.00
4,100.00	8.70	316.52	4,063.92	356.96	-338.53	491.96	0.00	0.00	0.00
4,200.00	8.70	316.52	4,162.77	367.93	-348.94	507.08	0.00	0.00	0.00
4,300.00	8.70	316.52	4,261.62	378.91	-359.35	522.21	0.00	0.00	0.00
4,400.00	8.70	316.52	4,360.47	389.88	-369.75	537.33	0.00	0.00	0.00
4,500.00	8.70	316.52	4,459.32	400.86	-380.16	552.46	0.00	0.00	0.00
4,600.00	8.70	316.52	4,558.17	411.83	-390.57	567.58	0.00	0.00	0.00
4,700.00	8.70	316.52	4,657.02	422.80	-400.98	582.71	0.00	0.00	0.00
4,800.00	8.70	316.52	4,755.87	433.78	-411.39	597.83	0.00	0.00	0.00
4,900.00	8.70	316.52	4,854.72	444.75	-421.79	612.96	0.00	0.00	0.00
5,000.00	8.70	316.52	4,953.57	455.73	-432.20	628.08	0.00	0.00	0.00
5,100.00	8.70	316.52	5,052.42	466.70	-442.61	643.20	0.00	0.00	0.00
5,200.00	8.70	316.52	5,151.27	477.68	-453.02	658.33	0.00	0.00	0.00

Scientific Drilling International, Inc.
 Planning Report

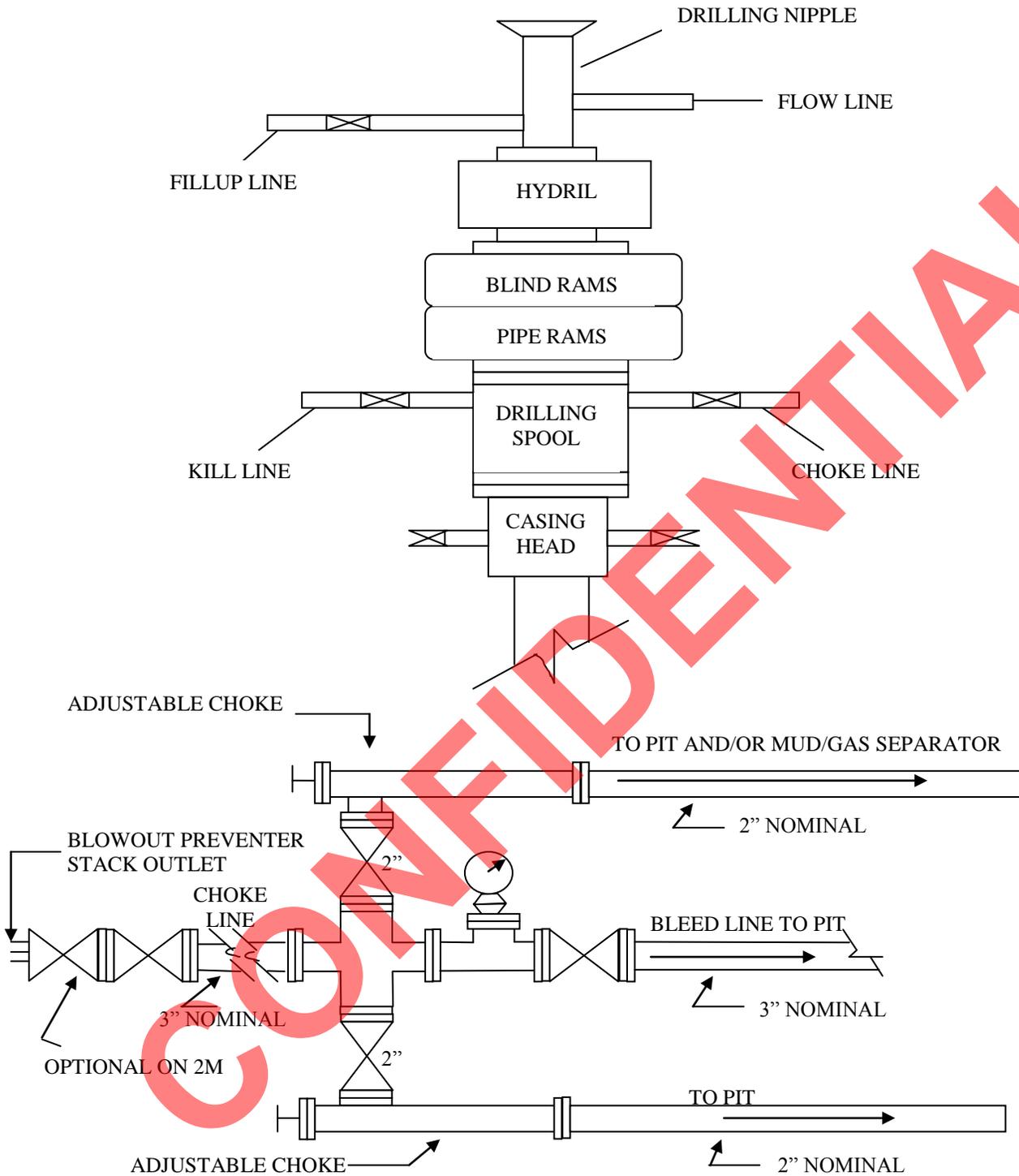
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Project:	Duchesne County, UT NAD83	MD Reference:	WELL @ 6353.00ft (Original Well Elev)
Site:	UTE Tribal 21-14M	North Reference:	True
Well:	UT 21-14M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	8.70	316.52	5,250.12	488.65	-463.42	673.45	0.00	0.00	0.00
5,400.00	8.70	316.52	5,348.97	499.62	-473.83	688.58	0.00	0.00	0.00
5,500.00	8.70	316.52	5,447.82	510.60	-484.24	703.70	0.00	0.00	0.00
5,600.00	8.70	316.52	5,546.67	521.57	-494.65	718.83	0.00	0.00	0.00
5,700.00	8.70	316.52	5,645.52	532.55	-505.05	733.95	0.00	0.00	0.00
5,800.00	8.70	316.52	5,744.36	543.52	-515.46	749.08	0.00	0.00	0.00
5,900.00	8.70	316.52	5,843.21	554.50	-525.87	764.20	0.00	0.00	0.00
6,000.00	8.70	316.52	5,942.06	565.47	-536.28	779.33	0.00	0.00	0.00
6,100.00	8.70	316.52	6,040.91	576.44	-546.69	794.45	0.00	0.00	0.00
6,200.00	8.70	316.52	6,139.76	587.42	-557.09	809.58	0.00	0.00	0.00
6,213.39	8.70	316.52	6,153.00	588.89	-558.49	811.60	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
UT 21-14M Target - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	6,153.00	588.89	-558.49	7,181,531.90	1,995,496.00	40° 1' 41.710 N	110° 13' 54.880 W

CONFIDENTIAL

SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK



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

May 23, 2011

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 21-14M: 688' FSL & 2107' FWL, SE/SW (Surface)
1280' FSL & 1550' FWL, SE/SW (Bottom Hole)
Section 21, T5S, R3W, 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 May 23, 2011, 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 21-14M 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 directionally drilling 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

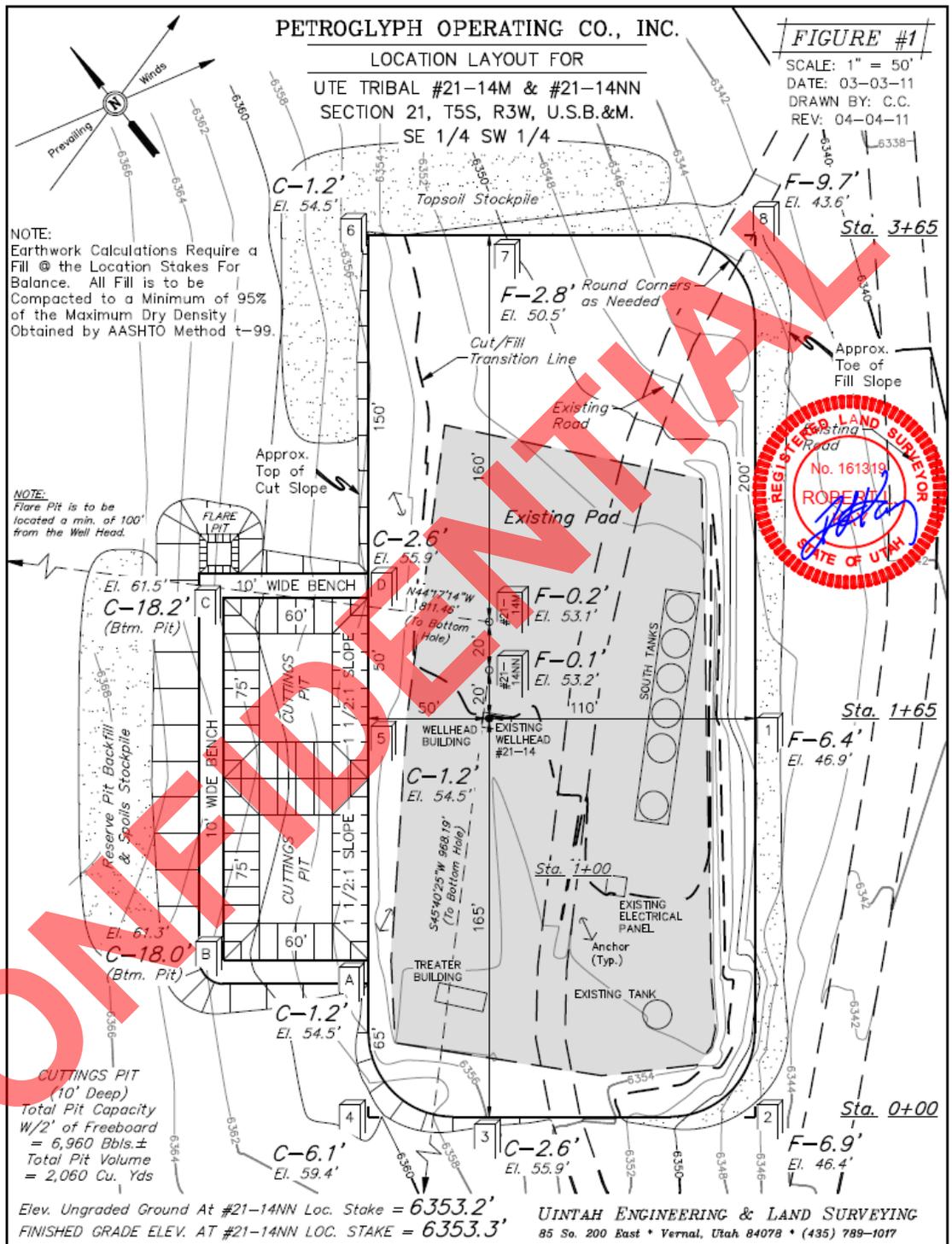
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with 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.

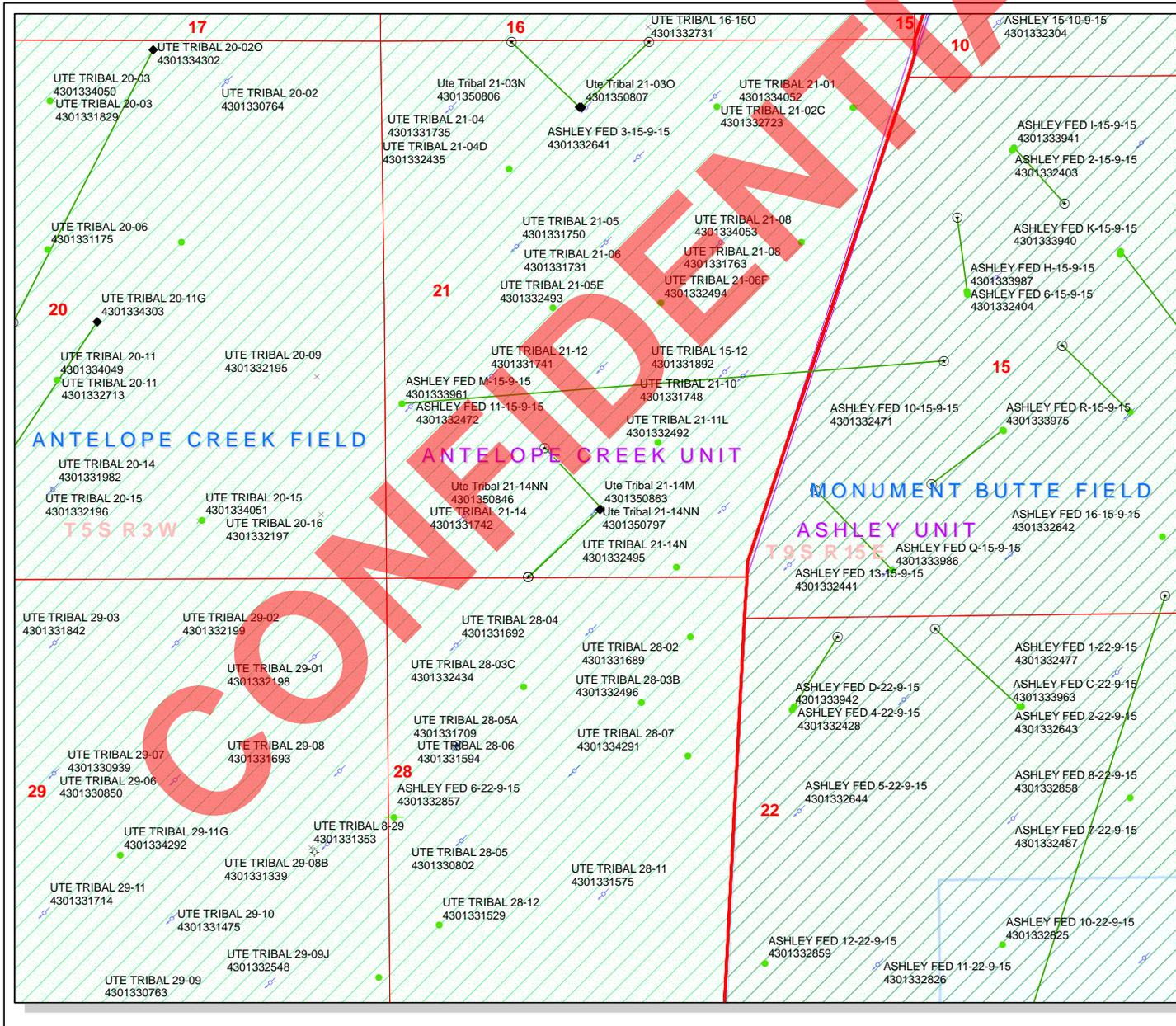
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 21-14M Well, located in the SE/SW of Section 21, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3516;** and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

Date

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

CONFIDENTIAL

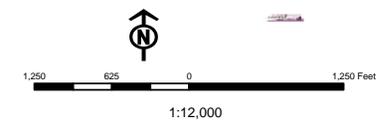




API Number: 4301350863
Well Name: Ute Tribal 21-14M
Township T0.5 . Range R0.3 . Section 21
Meridian: UBM
Operator: PETROGLYPH OPERATING CO

Map Prepared:
 Map Produced by Diana Mason

Units STATUS	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	DPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well
Sections	
Township	



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/23/2011

API NO. ASSIGNED: 43013508630000

WELL NAME: Ute Tribal 21-14M

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESW 21 050S 030W

Permit Tech Review:

SURFACE: 0688 FSL 2107 FWL

Engineering Review:

BOTTOM: 1280 FSL 1550 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.02665

LONGITUDE: -110.22922

UTM SURF EASTINGS: 565770.00

NORTHINGS: 4430790.00

FIELD NAME: ANTELOPE CREEK

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-3516

PROPOSED PRODUCING FORMATION(S): CASTLE PEAK

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - BO 4556
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-8342
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:** ANTELOPE CREEK
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No:** Cause 214-2
- Effective Date:** 6/9/2000
- Siting:** Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

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



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 21-14M
API Well Number: 43013508630000
Lease Number: 14-20-H62-3516
Surface Owner: INDIAN
Approval Date: 6/29/2011

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

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

Reporting Requirements:

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

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

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a faint, illegible stamp or background.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL, UTAH

~~JUL 29 2011~~
May 25, 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
14-20-H62-3516

6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE

7. If Unit or CA Agreement, Name and No.
14-20-H62-4650

8. Lease Name and Well No.
UTE TRIBAL 21-14M

9. API Well No.
43 013 50863

10. Field and Pool, or Exploratory
ANTELOPE CREEK

11. Sec., T., R., M., or Blk. and Survey or Area
**SEC. 21, T5S, R3W
U.S.B.&M.**

1a. Type of Work: DRILL REENTER
1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
PETROGLYPH OPERATING CO., INC.

3a. Address **P.O. BOX 1910
VERNAL, UT 84078**
3b. Phone No. (Include area code)
(435)789-4120

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface **688' FSL, 2107' FWL, SE/SW, SEC. 21, T5S, R3W**
Bottom Hole: **1280' FSL, 1550' FWL, SE/SW, SEC. 21, T5S, R3W**
At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*
21.1 MILES SOUTHWEST OF MYTON, UTAH
12. County or Parish **DUCHESNE** 13. State **UTAH**

15. Distance from proposed* location to nearest property or lease line, ft. **688'**
(Also to nearest drig. Unit line, if any)
16. No. of Acres in lease **533.33**
17. Spacing Unit dedicated to this well

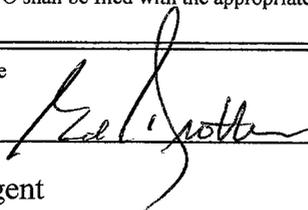
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See Topo Map "C"**
19. Proposed Depth **6213' TMD
6153' TVD**
20. BLM/BIA Bond No. on file **BO 4556**

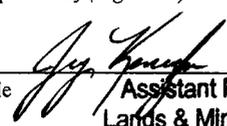
21. Elevations (Show whether DF, KDB, RT, GL, etc.) **6353.3 FEET GRADED GROUND**
22. Approximate date work will start* **UPON APPROVAL**
23. Estimated duration **10 DAYS**

24. Attachments

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

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

25. Signature  Name (Printed/Typed) **Ed Trotter** Date **May 23, 2011**
Title **Agent**

Approved by (Signature)  Name (Printed/Typed) **Jerry Kenczka** Date **OCT 04 2011**
Title **Assistant Field Manager
Lands & Mineral Resources** Office **VERNAL FIELD OFFICE**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of Approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Continued on page 2)

NOTICE OF APPROVAL

OCT 21 2011
DIV. OF OIL, GAS & MINING

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Petroglyph Operating Co., Inc.	Location:	SESW, Sec. 21 T5S R3W USM
Well No:	Ute Tribal 21-14M	Lease No:	14-20-H62-3516
API No:	43-013-50863	Agreement:	14-20-H62-4650

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Additional Stipulations:

- 1) All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- 2) The conditions as set forth by those owners and/or agencies.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

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

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
14-20-H62-3516

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Ute Indian Tribe

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.

7. UNIT or CA AGREEMENT NAME:
14-20-H62-4650

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Ute Tribal 21-14M

2. NAME OF OPERATOR:
Petroglyph Operating Company Inc.

9. API NUMBER:
4301350863

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

10. FIELD AND POOL, OR WILDCAT:
Antelope Creek

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **688' FSL, 2107' FWL** COUNTY: **Duchesne**
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SESW 21 5S 3W** STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 checked="" 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.

All produced water will be trucked or pumped through pipeline to an injection pump station for reinjection.

COPY SENT TO OPERATOR

Date: 11/2/2011

Initials: KS

RECEIVED

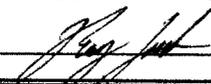
OCT 18 2011

DIV. OF OIL, GAS & MINING

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

*Federal Approval of this
Action Is Necessary*

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist
SIGNATURE  DATE 10/18/2011

(This space for State use only)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3516
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
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.		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: UTE TRIBAL 21-14M
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		9. API NUMBER: 43013508630000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500 , Bosie, ID, 83703	PHONE NUMBER: 208 685-7674 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0688 FSL 2107 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 21 Township: 05.0S Range: 03.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/15/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input 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="text"/>
		<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
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. We Spud this well on 11/15/2011 at 3:00 P.M. We set 40' of 14" conductor.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A		DATE 11/18/2011

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

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Operator Account Number: N 3800
 Address: P.O. Box 607
city Roosevelt
state UT zip 84066 Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350863	Ute Tribal 21-14M		SESW	21	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	12050	11/15/2011			11/30/11	
Comments: Please add to existing 21-14TB. CSLPK = GRPV BHL = SESW CONFIDENTIAL							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350846	Ute Tribal 21-14NN		SESW	21	5W	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	12050	11/15/2011			11/30/11	
Comments: Please add to existing 21-14TB. CSLPK = GRPV BHL = SESW CONFIDENTIAL							

Well 3

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

ACTION CODES:

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

Rodrigo Jurado

Name (Please Print)

Rodrigo Jurado
Signature

Regulatory Compliance Spc

11/18/2011

Title

Date

RECEIVED

NOV 21 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3516
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
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2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013508630000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500, Bosie, ID, 83703	PHONE NUMBER: 208 685-7674 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0688 FSL 2107 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 21 Township: 05.0S Range: 03.0W Meridian: U	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK 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: 1/13/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

On 1/13/2012 Petroglyph Operating would like to perforate and frac the following depths and intervals: 4,734'-4,742', 4,755'-4,772', 4,986'-4,992', 5,158'-5,172', 5,452'-5,458', 5,616'-5,630' and 5,780'-5,793'. We plan to frac using Delta 140 gelled fluid and 20/40 mesh sand. All perforations will be made with Titan 3 1/8" perf guns containing 22.7 gram charges, 0.42"EHD w/ 23.54" TTP @ 4 SPF @ 120* phased.

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

Date: January 11, 2012
By: *Derek Quist*

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 1/10/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3516
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		STATE: UTAH
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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: 2/3/2012 <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"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The first date of production for this well was 2/03/2012.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 07, 2012
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A		DATE 2/6/2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3516
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: UTE TRIBAL 21-14M
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3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500, Bosie, ID, 83703		9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0688 FSL 2107 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 21 Township: 05.0S Range: 03.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/29/2012	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text" value="Perforate"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DRILLING REPORT Report Date:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached form. Not enough room to fit necessary information on this form.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 07, 2012		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 3/5/2012	

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3516
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		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: Ute Tribal 21-14M	
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		9. API NUMBER: 4301350863
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		PHONE NUMBER: (435) 722-2531
4. LOCATION OF WELL FOOTAGES AT SURFACE: 688' FSL, 2107' FWL		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 21 5S 3W		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 (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 type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	<input type="checkbox"/> TUBING REPAIR
<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> WATER SHUT-OFF	<input checked="" type="checkbox"/> OTHER: <u>Perforate</u>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 2/29/2012	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<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 1/13/2012 Petroglyph Operating ran CR/CBI from 6172' to 50'. Still in good cement, ETOC @ Surf. Perforated and frac'd in Green River formation as follows: 5780-5793', frac'd w 531 Bbls Delta 140 15# gelled fluid containing 35,900#'s 20/40 mesh sand. Perforate 5616-5630', frac'd w/ 485 bbls Delta 140 15# gelled fluid containing 35,200#'s 20/40 mesh sand. Perforate 5452-5458', frac'd w/ 437 Bbls Delta 140 15# gelled fluid containing 16,300#'s 20/40 mesh sand. Perforate 5158-5472', frac'd w/ 460 Bbls Delta 140 15# gelled fluid containing 35,000#'s 20/40 mesh sand. Perforate 4986-4992', frac'd w/ 208 Bbls Delta 140 15# gelled fluid containing 14,900#'s 20/40 mesh sand. Perforate and frac 4734-4742' & 4755-4772', frac'd w/ 649 Bbls Delta 140 15# gelled fluid containing 60,000#'s 20/40 mesh sand.

Isolation plugs: Halliburton 8K composite @ 5700', 5550', 5250', 5075', 4850', Kill plug @ 4650.

Perforation Guns: 3 1/8" Titan containing: 22.7 gram charges, @ 0.42" EHD @ 23.54" TTP @ 4 spf @ 120* phased.

All isolation plugs were drilled out and well bore was cleaned out to 6180' PBTD.

Produced well flowing until well died off.

Production tbg and rod pump was ran and placed on pump on 2/29/2012.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Spc.</u>
SIGNATURE	DATE <u>3/5/2012</u>

(This space for State use only)

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

MAR 09 2012

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:
14-20-H62-3516

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME
14-20-H62-4650

8. WELL NAME and NUMBER:
Ute Tribal 21-14M

9. API NUMBER:
4301350863

10. FIELD AND POOL, OR WILDCAT
Antelope Creek Field

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SESW 21 5S 3W

12. COUNTY
Duchesne

13. STATE
UTAH

14. DATE SPULLED:
11/15/2012

15. DATE T.D. REACHED:
12/30/2011

16. DATE COMPLETED:
2/29/2012

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
6360 RKB

18. TOTAL DEPTH: MD **6,253** TVD **6,162**

19. PLUG BACK T.D.: MD **6,180** TVD **6,089**

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, CBL, Dual Spaced Neutron Spectral Density

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 (#/R.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20	14 K-55	42	0	57				0	Conductor
12.25	8.625 J-55	24	0	526		G 380	78	0	
7.875	5.5 J-55	15.5	0	6,244		G 845	261	0 CBL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,817							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	4,734	5,793	4,646	5,703
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
4,734 4,742	0.42	32	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
4,755 4,772	0.42	68	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
4,986 4,992	0.42	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
5,158 5,172	0.42	56	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4734-4772'	60,000# Sand Frac (20/40 mesh sand). 649 Bbls Delta 140 15# gelled fluid.
4986-4992'	14,900# Sand Frac (20/40 mesh sand). 208 Bbls Delta 140 15# gelled fluid.
5158-5172'	35,000# Sand Frac (20/40 mesh sand). 460 Bbls Delta 140 15# gelled fluid.

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/3/2012		TEST DATE: 3/1/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 40	GAS - MCF: 30	WATER - BBL: 150	PROD. METHOD: Rod Pump
CHOKE SIZE: 32	TBG. PRESS. 0	CSG. PRESS. 300	API GRAVITY 39.37	BTU - GAS 1	GAS/OIL RATIO 750	24 HR PRODUCTION RATES: →	OIL - BBL: 40	GAS - MCF: 30	WATER - BBL: 150	INTERVAL STATUS: POW

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	2,802
				Mahogany	2,949
				Garden Gulch	3,666
				B Marker	4,070
				X Marker	4,559
				Y Marker	4,594
				Douglas Creek	4,701
				B Lime	5,082
				Castle Peak	5,582
				Basal Carbonate	6,061

35. ADDITIONAL REMARKS (include plugging procedure)

Please see attached form for additional perforations, fracture treatments and formation markers

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

NAME (PLEASE PRINT) Rodrigo Jurado

TITLE Regulatory Compliance Spc.

SIGNATURE 

DATE 3/7/2012

This report must be submitted within 30 days of

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

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

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

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

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

PETROGLYPH



COMPLETION REPORT ADDITIONAL INFORMATION

Ute Tribal 21-14M, API # 43-013-50863

688' FSL, 2107' FWL

SESW Sec. 21, T5S, R3W

Duchesne County, Utah

ITEM 27, Additional perforations			
Interval	Size	No. Holes	Status
5452-5458	0.42"	24	Open
5616-5630	0.42"	56	Open
5780-5793	0.42"	52	Open

ITEM 28, Additional Fracturing	
Depth Interval	Amount and Type of Material
5452-5458'	16,300# Sand Frac (20/40 mesh sand). 437 Bbls Delta 140 15# gelled fluid.
5616-5630'	35,200# Sand Frac (20/40 mesh sand). 485 Bbls Delta 140 15# gelled fluid.
5780-5793'	35,900# Sand Frac (20/40 mesh sand). 531 Bbls Delta 140 15# gelled fluid.

ITEM 34, Additional Formation Markers	
Name	Top
Wasatch	NDE

RECEIVED

MAR 09 2012



Scientific
Drilling

Directional Survey Certification

DIV. OF OIL, GAS & MINING

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	<u>Petroglyph Operating Co. Inc.</u>
Well Name & No.	<u>Ute Tribal 21-14M</u>
County & State	<u>Duchesne County, CO</u>
SDI Job No.	<u>42DEF11121537</u>
Rig	<u>Nabors 946</u>

I, Rex Hall, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 549 feet to a measured depth of 4643 feet is true and correct as determined from all available records.



Signature

12-Jan-12

Date

Rex Hall
Grand Junction Drilling Engineer
Scientific Drilling - Rocky Mountain District

Scientific Drilling International

Survey Report

Company: Petroglyph Operating Co. Inc.	Local Co-ordinate Reference: Well UT 21-14M	
Project: Duchesne County, UT NAD83	TVD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)	
Site: UTE Tribal 21-14M & NN Pad	MD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)	
Well: UT 21-14M	North Reference: True	
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature	
Design: Wellbore #1	Database: Rockies Compass Server	

Project: Duchesne County, UT NAD83		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: Utah Central Zone		

Site: UTE Tribal 21-14M & NN Pad					
Site Position:		Northing:	7,180,951.01 usft	Latitude:	40° 1' 35.890 N
From:	Lat/Long	Easting:	1,996,062.79 usft	Longitude:	110° 13' 47.700 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.81 °

Well: UT 21-14M, 688 FSL & 2107 FWL					
Well Position	+N-S	0.00 ft	Northing:	7,180,951.00 usft	Latitude:
	+E-W	0.00 ft	Easting:	1,996,062.79 usft	Longitude:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,353.00 ft

Wellbore: Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	04/07/11	(°)	(°)	(nT)
			11.40	65.75	52,248

Design: Wellbore #1					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	317.01	

Survey Program					
Date: 01/12/12					
From	To	Survey (Wellbore)	Tool Name	Description	
549.00	4,643.00	Survey #1 - Production MWD (Wellbore #1)	MWD-SDI		

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
549.00	0.88	209.95	548.98	-3.65	-2.10	-1.24	0.16	0.16	0.00	0.00
First SDI Production MWD Survey										
641.00	1.14	276.18	640.97	-4.17	-3.37	-0.75	1.22	0.28	71.99	
732.00	1.88	302.89	731.94	-3.26	-5.52	1.38	1.10	0.81	29.35	
824.00	2.64	319.11	823.86	-0.84	-8.18	4.96	1.07	0.83	17.63	
916.00	3.52	319.29	915.73	2.91	-11.40	9.90	0.96	0.96	0.20	
1,005.00	4.66	321.84	1,004.50	7.82	-15.42	16.23	1.30	1.28	2.87	
1,103.00	6.14	327.32	1,102.07	15.36	-20.71	25.36	1.60	1.51	5.59	
1,198.00	7.03	328.95	1,196.44	24.62	-26.45	36.04	0.96	0.94	1.72	
1,294.00	8.18	325.00	1,291.59	35.25	-33.40	48.56	1.32	1.20	-4.11	

Scientific Drilling International

Survey Report

Company: Petroglyph Operating Co. Inc.	Local Co-ordinate Reference: Well UT 21-14M	
Project: Duchesne County, UT NAD83	TVD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)	
Site: UTE Tribal 21-14M & NN Pad	MD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)	
Well: UT 21-14M	North Reference: True	
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature	
Design: Wellbore #1	Database: Rockies Compass Server	

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,390.00	9.32	322.28	1,386.47	46.99	-42.07	63.06	1.26	1.19	-2.83
1,486.00	10.46	320.34	1,481.05	59.85	-52.39	79.50	1.24	1.19	-2.02
1,581.00	11.52	320.25	1,574.30	73.78	-63.96	97.58	1.12	1.12	-0.08
1,677.00	11.43	321.04	1,668.98	88.55	-76.07	116.84	0.19	-0.09	0.82
1,774.00	11.96	321.40	1,763.37	103.88	-88.39	136.25	0.55	0.65	0.37
1,869.00	12.50	317.44	1,856.22	119.14	-101.48	156.35	1.05	0.57	-4.17
1,966.00	13.85	315.96	1,950.66	135.22	-116.65	178.45	1.43	1.39	-1.53
2,061.00	13.81	316.83	2,042.91	151.66	-132.31	201.16	0.22	-0.04	0.92
2,157.00	14.51	316.30	2,135.99	168.71	-148.46	224.64	0.74	0.73	-0.55
2,253.00	14.86	318.23	2,228.85	186.59	-164.97	248.97	0.63	0.36	2.01
2,348.00	14.89	316.16	2,320.67	204.48	-181.54	273.36	0.56	0.03	-2.18
2,444.00	14.46	315.72	2,413.54	221.96	-198.45	297.67	0.46	-0.45	-0.46
2,540.00	13.48	315.74	2,506.70	238.55	-214.83	320.84	1.02	-1.02	0.02
2,635.00	13.98	314.80	2,598.98	254.57	-230.50	343.38	0.58	0.53	-0.99
2,731.00	14.80	316.31	2,691.97	271.61	-247.20	367.23	0.94	0.85	1.57
2,826.00	15.48	317.18	2,783.67	289.68	-264.20	392.04	0.75	0.72	0.92
2,922.00	14.38	314.08	2,876.43	307.37	-281.47	416.76	1.42	-1.15	-3.23
3,018.00	15.32	317.00	2,969.23	324.94	-298.68	441.35	1.25	0.98	3.04
3,114.00	14.36	315.20	3,062.02	342.66	-315.72	465.93	1.11	-1.00	-1.88
3,209.00	14.77	317.09	3,153.97	359.89	-332.27	489.81	0.66	0.43	1.99
3,306.00	15.04	315.68	3,247.71	377.95	-349.48	514.76	0.47	0.28	-1.45
3,401.00	14.83	316.54	3,339.50	395.59	-366.45	539.24	0.32	-0.22	0.91
3,495.00	14.42	317.35	3,430.45	412.93	-382.66	562.97	0.49	-0.44	0.86
3,589.00	14.10	317.25	3,521.56	429.95	-398.36	586.13	0.34	-0.34	-0.11
3,687.00	13.23	316.60	3,616.78	446.86	-414.17	609.28	0.90	-0.89	-0.66
3,783.00	13.28	316.65	3,710.22	462.86	-429.28	631.29	0.05	0.05	0.05
3,878.00	13.21	317.77	3,802.70	478.84	-444.07	653.05	0.28	-0.07	1.18
3,974.00	13.69	319.58	3,896.06	495.61	-458.81	675.37	0.67	0.50	1.89
4,069.00	12.59	314.97	3,988.58	511.48	-473.42	696.95	1.60	-1.16	-4.85
4,165.00	11.39	315.36	4,082.48	525.62	-487.49	716.88	1.25	-1.25	0.41
4,261.00	9.76	315.39	4,176.85	538.16	-499.86	734.49	1.70	-1.70	0.03
4,356.00	9.00	312.45	4,270.58	548.91	-511.00	749.95	0.95	-0.80	-3.09
4,452.00	7.83	315.42	4,365.54	558.64	-521.13	763.97	1.30	-1.22	3.09
4,548.00	7.12	317.62	4,460.73	567.69	-529.73	776.46	0.80	-0.74	2.29
4,643.00	5.19	321.48	4,555.17	575.40	-536.38	786.63	2.08	-2.03	4.06

Last SDI Production MWD Survey

Scientific Drilling International

Survey Report

Company: Petroglyph Operating Co. Inc.
Project: Duchesne County, UT NAD83
Site: UTE Tribal 21-14M & NN Pad
Well: UT 21-14M
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well UT 21-14M
TVD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)
MD Reference: GL 6353' & RKB 18' @ 6371.00ft (Nabors 946)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Rockies Compass Server

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
549.00	548.98	-3.65	-2.10	First SDI Production MWD Survey
4,643.00	4,555.17	575.40	-536.38	Last SDI Production MWD Survey

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

PETROGLYPH



COMPLETION REPORT ADDITIONAL INFORMATION

Ute Tribal 21-14M, API # 43-013-50863

688' FSL, 2107' FWL

SESW Sec. 21, T5S, R3W

Duchesne County, Utah

ITEM 27, Additional perforations			
Interval	Size	No. Holes	Status
5452-5458	0.42"	24	Open
5616-5630	0.42"	56	Open
5780-5793	0.42"	52	Open

ITEM 28, Additional Fracturing	
Depth Interval	Amount and Type of Material
5452-5458'	16,300# Sand Frac (20/40 mesh sand). 437 Bbls Delta 140 15# gelled fluid.
5616-5630'	35,200# Sand Frac (20/40 mesh sand). 485 Bbls Delta 140 15# gelled fluid.
5780-5793'	35,900# Sand Frac (20/40 mesh sand). 531 Bbls Delta 140 15# gelled fluid.

ITEM 34, Additional Formation Markers	
Name	Top
Wasatch	NDE

43 013 50963



A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

RECEIVED
MAR 09 2012
DIV. OF OIL, GAS & MINING

January 16, 2012

Petroglyph Operating Company
P O Box 607
Roosevelt, UT 84066

JAN 24 2011

BY:.....

Attn: Leon Roush

Re: UTE Tribal 21-14M

Please find enclosed a copy of the survey from 0' to 6,150' ran on the above referenced well.

If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations



Company: PETROGLYPH OPERATING COMPANY

Lease/Well: UTE TRIBAL/21-14M

Rig Name: NABORS 946

State/County: UTAH/DUCHESNE

Latitude: 40.02

GRID North is 0.82 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RIG FLOOR

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: utetribal21-14m_ed.ut

Minimum Curvature Method

Report Date/Time: 1/16/2012 / 14:07

Vaughn Energy Services

Henderson, Colorado

866-835-8333

Surveyor: Jay Hinman

UTE Tribal 21-14M

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
200.00	0.43	179.21	200.00	-0.75	0.01	-0.75	0.75	179.21	0.22
400.00	0.55	209.89	399.99	-2.34	-0.46	-2.34	2.39	191.15	0.14
600.00	1.04	237.47	599.97	-4.16	-2.48	-4.16	4.84	210.81	0.31
800.00	2.31	311.32	799.90	-2.48	-7.04	-2.48	7.47	250.57	1.13
1000.00	4.45	320.25	999.54	6.13	-15.02	6.13	16.23	292.21	1.10
1200.00	7.76	327.32	1198.38	23.47	-27.28	23.47	35.98	310.71	1.70
1400.00	9.58	322.84	1396.09	48.10	-44.62	48.10	65.61	317.15	0.97
1600.00	11.51	320.79	1592.71	76.82	-67.28	76.82	102.12	318.79	0.98
1800.00	12.03	319.24	1788.50	108.07	-93.51	108.07	142.90	319.13	0.31
2000.00	13.81	316.16	1983.43	141.07	-123.65	141.07	187.59	318.77	0.95
2200.00	14.60	316.67	2177.32	176.62	-157.48	176.62	236.63	318.28	0.40
2400.00	14.69	315.50	2370.82	213.05	-192.55	213.05	287.16	317.89	0.16
2600.00	13.73	315.18	2664.70	247.97	-227.05	247.97	336.22	317.52	0.48
2800.00	15.12	317.66	2758.39	284.08	-261.34	284.08	386.01	317.39	0.76
3000.00	15.29	317.86	2951.40	322.91	-296.60	322.91	438.45	317.43	0.09
3200.00	14.69	316.75	3144.59	360.93	-331.67	360.93	490.17	317.42	0.33
3400.00	14.81	316.09	3338.00	397.81	-366.77	397.81	541.08	317.33	0.10
3600.00	13.70	317.41	3531.84	433.65	-400.51	433.65	590.31	317.28	0.58

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
3800.00	13.28	317.43	3726.33	468.00	-432.07	468.00	636.95	317.29	0.21
4000.00	12.89	315.13	3921.14	500.72	-463.34	500.72	682.20	317.22	0.32
4200.00	10.89	315.44	4116.84	529.99	-492.34	529.99	723.39	317.11	1.00
4400.00	8.45	314.26	4313.98	553.72	-516.13	553.72	756.96	317.01	1.22
4600.00	6.13	319.00	4512.35	572.03	-533.66	572.03	782.31	316.99	1.20
4800.00	3.93	314.56	4711.57	584.90	-545.55	584.90	799.84	316.99	1.12
5000.00	3.12	293.01	4911.20	591.84	-555.44	591.84	811.66	316.82	0.77
5200.00	3.23	263.91	5110.91	593.37	-566.05	593.37	820.06	316.35	0.80
5400.00	4.05	237.86	5310.51	589.01	-577.63	589.01	824.98	315.56	0.91
5600.00	3.61	236.74	5510.07	581.80	-588.89	581.80	827.81	314.65	0.22
5800.00	3.65	215.80	5709.67	573.18	-597.88	573.18	828.25	313.79	0.66
6000.00	3.03	213.27	5909.33	563.59	-604.50	563.59	826.47	312.99	0.32
6150.00	3.95	206.76	6059.05	555.66	-609.01	555.66	824.41	312.38	0.67

557 =611



Vaughn Energy Services
Henderson, Colorado
866-835-8333
Surveyor: Jay Hinman
UTE Tribal 21-14M

