

Petroglyph Energy, Inc.
P.O. Box 607
Roosevelt, Utah 84066

September 25, 2000

Utah Division of Oil, Gas, & Mining
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #29-13
SW/SW, SEC. 29, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO.: BIA 14-20-H62-3518
UTE TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420

Sincerely,



Ed Trotter
Agent
Petroglyph Energy, Inc.

Attachments

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DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL **DEEPEN**
b. TYPE OF WELL
Oil Well Gas Well Other Single Zone Multiple Zone

5. Lease designation and serial number
BIA-14-20-H62-3518

6. If Indian, Allottee or Tribe name
UTE TRIBAL LAND

7. Unit Agreement Name
14-20-H62-4650

8. Farm or lease name, well no.
UTE TRIBAL

2. Name of Operator
PETROGLYPH ENERGY, INC.

9. API Well No.
UT 29-13

3. Address and Telephone Number
P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531

10. Field and pool, or wildcat
ANTELOPE CREEK

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface **660' FSL & 660' FWL SW/SW**
At proposed prod. Zone **4429168N 563732E**

11. Sec., T., R., M., or BLK. and survey or area
SEC. 29, T5S, R3W

14. Distance in miles and direction from nearest town or post office
21.4 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.
660'
(Also to nearest drig. Unit line, if any)

16. No. of acres in lease
640

17. No. of acres assigned to this well
40

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

19. Proposed depth
6131'

20. Rotary or cable tools
ROTARY

21. Elevations (show whether DF, RT, GR, etc.)
6646 FEET GRADED GROUND

22. Approx. date work will start
NOVEMBER 2000

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	135 SX CLASS "G" + 2% CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	5 1/2"	15.50#	6131'	50/50 POXMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

SEE ATTACHMENTS FOR:

- 8 POINT PLAN
- BOP SCHEMATIC
- SURFACE USE AND OPERATING PLAN
- LOCATION PLAT
- LOCATION LAYOUT
- TOPOGRAPHIC MAPS "A", "B", C AND "D"

CONFIDENTIAL

PETROGLYPH ENERGY, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND #BO 4556.

Pc: UTAH DIVISION OF OIL, GAS, AND MINING
BUREAU OF INDIAN AFFAIRS, FORT DUCHESNE, UTAH

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED *Bradley Hill* TITLE **Agent** DATE 9-25-2000

(This space for Federal or State office use)

PERMIT NO. 43-013-32200 APPROVAL DATE _____

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:
APPROVED BY *Bradley Hill* TITLE **BRADLEY G. HILL** DATE 10/1/00
RECLAMATION SPECIALIST III

Federal Approval of this Action is Necessary

DIVISION OF OIL, GAS AND MINING

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

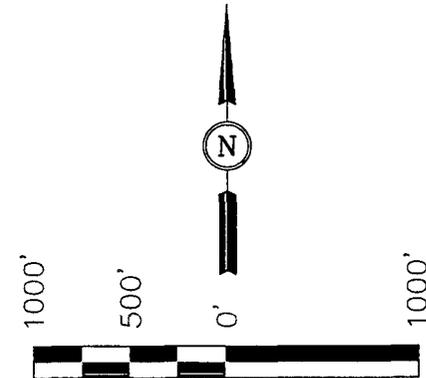
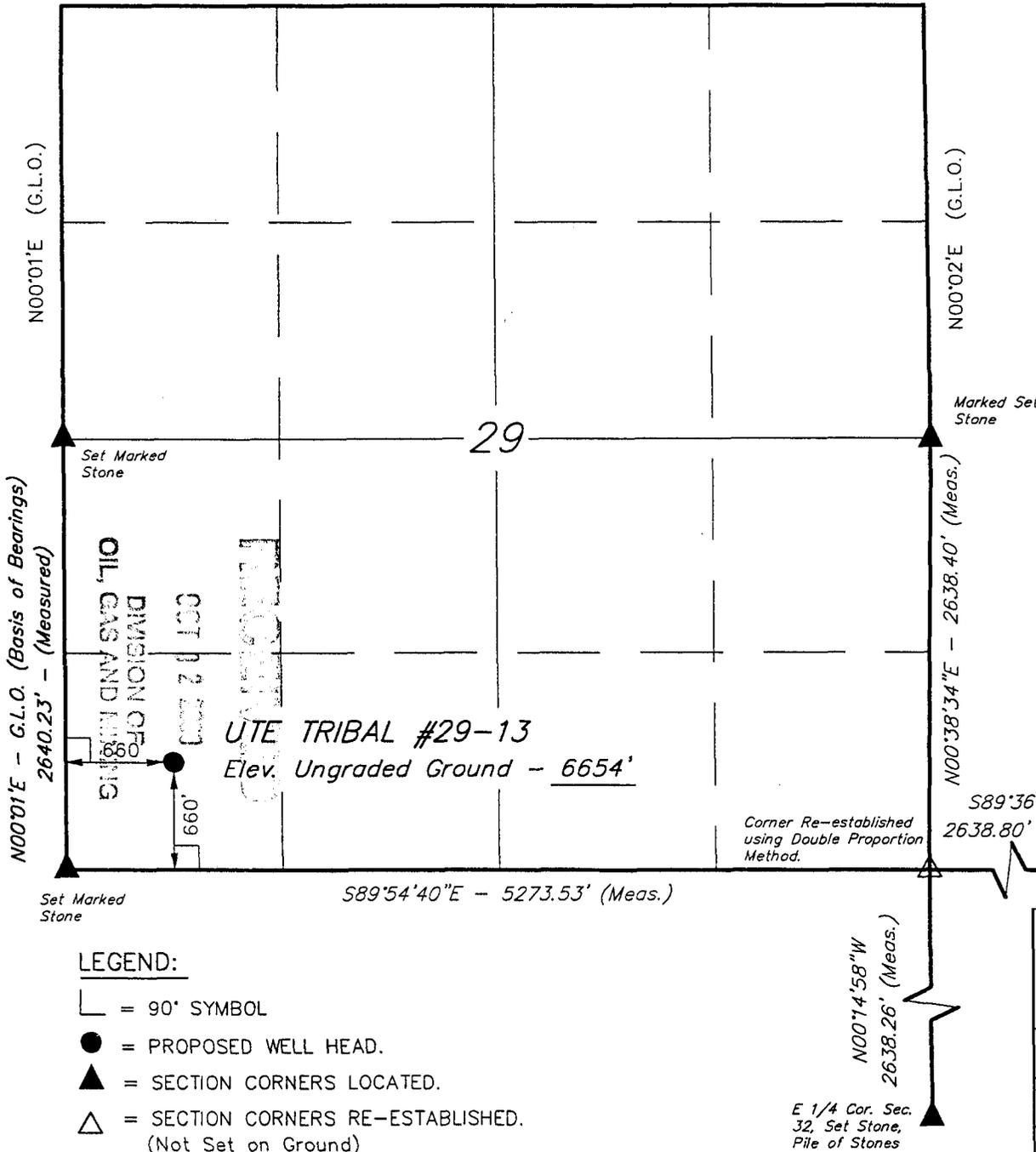
S89°48'E - 79.94 (G.L.O.)

PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #29-13, located as shown in SW 1/4 SW 1/4 of Section 29, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

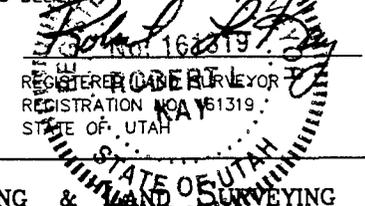
BASIS OF ELEVATION

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.



SCALE
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.



UINTAH ENGINEERING & SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 1-8-98	DATE DRAWN: 1-26-98
PARTY G.S. K.R. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED.
(Not Set on Ground)

EIGHT POINT PLAN

UTE TRIBAL #29-13
SW/SW, SEC. 29, T5S, R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Trona	2734	
Mahogany Shale	2880	
"B" Marker	3956	
"X" Marker	4446	
Douglas Creek	4577	
"B" Limestone	4948	
B/Castle Peak Limestone	5496	
Basal Carbonate Limestone	5931	
Wasatch	6186	
Total Depth	6131	

Anticipated BHP 2700 psi

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	4577	
Oil/Gas	B/Castle Peak	5496	
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

4. CASING PROGRAM:

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>MINIMUM SAFETY FACTOR</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 ¼	0 - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6131'	6131'	5 ½	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

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EIGHT POINT PLAN

UTE TRIBAL #29-13
SW/SW, SEC. 29, T5S, R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

<u>INTERVAL</u>	<u>MUD TYPE</u>
0' - 250'	Air
250' - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute
TD	Gel/polyacrylamide polymer w/5-10% LCM

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

6. VARIANCE REQUESTS:

- A. Petroglyph Energy, Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Energy, Inc. requests a variance to regulations requiring an automatic ignitor or
- C. continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface casing
Compensated Density-Compensated Neutron Log	T.D. to base of surface casing
Dual Laterlog - Micro-SFL	T.D. to base of surface casing
Numar (Magnetic Resonance Imaging Log)	@ Geologist's discretion

Cores: None Programmed
DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

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EIGHT POINT PLAN

UTE TRIBAL #29-13
SW/SW, SEC. 29, T5S, R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Clock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. 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)

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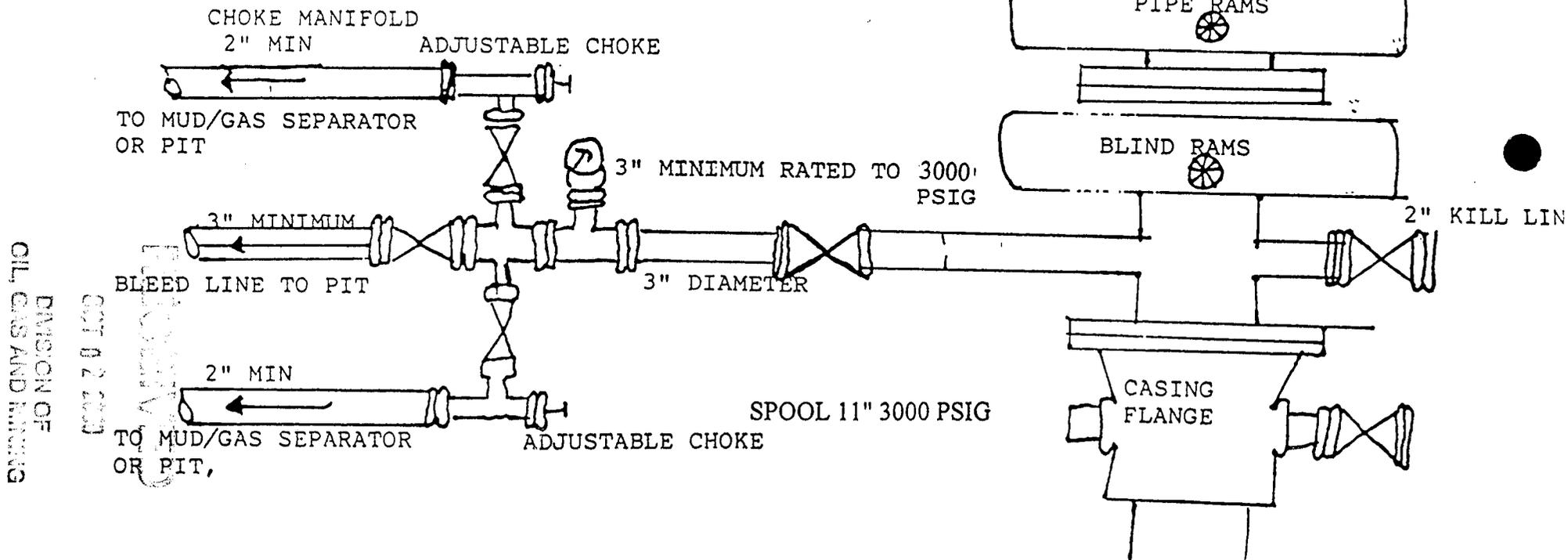
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3000 PSIG DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 3000 RATED.
 CASING FLANGE IS 11" 3000 PSIG RATED.
 BOPE 11" 3000 PSIG

TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 3000 psig
3. Annular preventor will be tested to 50% of working pressure, 1500 psig
4. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 3000 psig BOPE specifications.



**CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Petroglyph Energy, Inc.
Well Name & Number: Ute Tribal # 29-13
Lease Number: BIA 14-20-H62-3518
Location: 660' FSL & 660' FWL, SW/SW, Sec. 29, T5S, R3W,
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice: - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice well - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

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THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 14.1 miles southwest of Myton, Utah - See attached TOPO Map "A" .
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.3 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of-Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent

intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Energy, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None
- D. Disposal wells - None
- E. Drilling wells - None
- F. Producing wells - 14*
- G. Shut in wells - None
- H. Injection wells - None

(*See attached TOPO map "C" for location)

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. **ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities - To be submitted later
- 3. Oil gathering lines - None
- 4. Gas gathering lines - None
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

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The production facilities will be placed on the southeast side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE ¼, Sec. 1, T4S, R5W, Duchesne, Utah (State Water Right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by a licensed Trucking company.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

_____ To protect the environment:

If the reserve pit is lined, the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by Part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

_____ To protect the environment (without chemical analysis), reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

_____ Storage tanks will be used if drill sites are located on tribal irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELLSITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the northwest side of the location. The flare pit will be located downwind of the prevailing wind direction on the northwest side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the north corner of the location.

Access to the well pad will be from the southwest.

N/A Diversion ditch(es) shall be constructed on the _____ side of the location (above/below) the cut slope, draining to the _____.

N/A Soil compacted earthen berm(s) shall be placed on the _____

side(s) of the location between the _____.

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons _____.

X Corners #2, 4, 6 & 8 will be rounded off to minimize excavation.

FENCING REQUIREMENTS:

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

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The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA ADMINISTERED LANDS:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b)

reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, © ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

A. Petroglyph Energy, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to: - whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, Petroglyph Energy, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA

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authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

- N/A No construction or drilling activities shall be conducted between _____ and _____ because of _____.
- N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.
- N/A No construction or exploration activities are permitted within a 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.
- N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).
- N/A No cottonwood trees will be removed or damaged.
- N/A Pond will be constructed according to BIA specifications approximately _____ feet _____ of the location, as flagged on the onsite.

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LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Telephone: (435)789-4120
Fax: (435)789-1420

OPERATIONS

Victor Hein
P.O. Box 607
Roosevelt, UT 84066
(435)722-2531
(435)722-9145

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Energy, Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

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 Energy, Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

9-25-2000

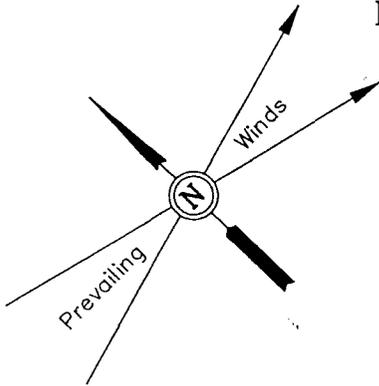
Date


Agent

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #29-13
SECTION 29, T5S, R3W, U.S.B.&M.
660' FSL 660' FWL



SCALE: 1" = 50'
DATE: 1-26-98
Drawn By: C.B.T.

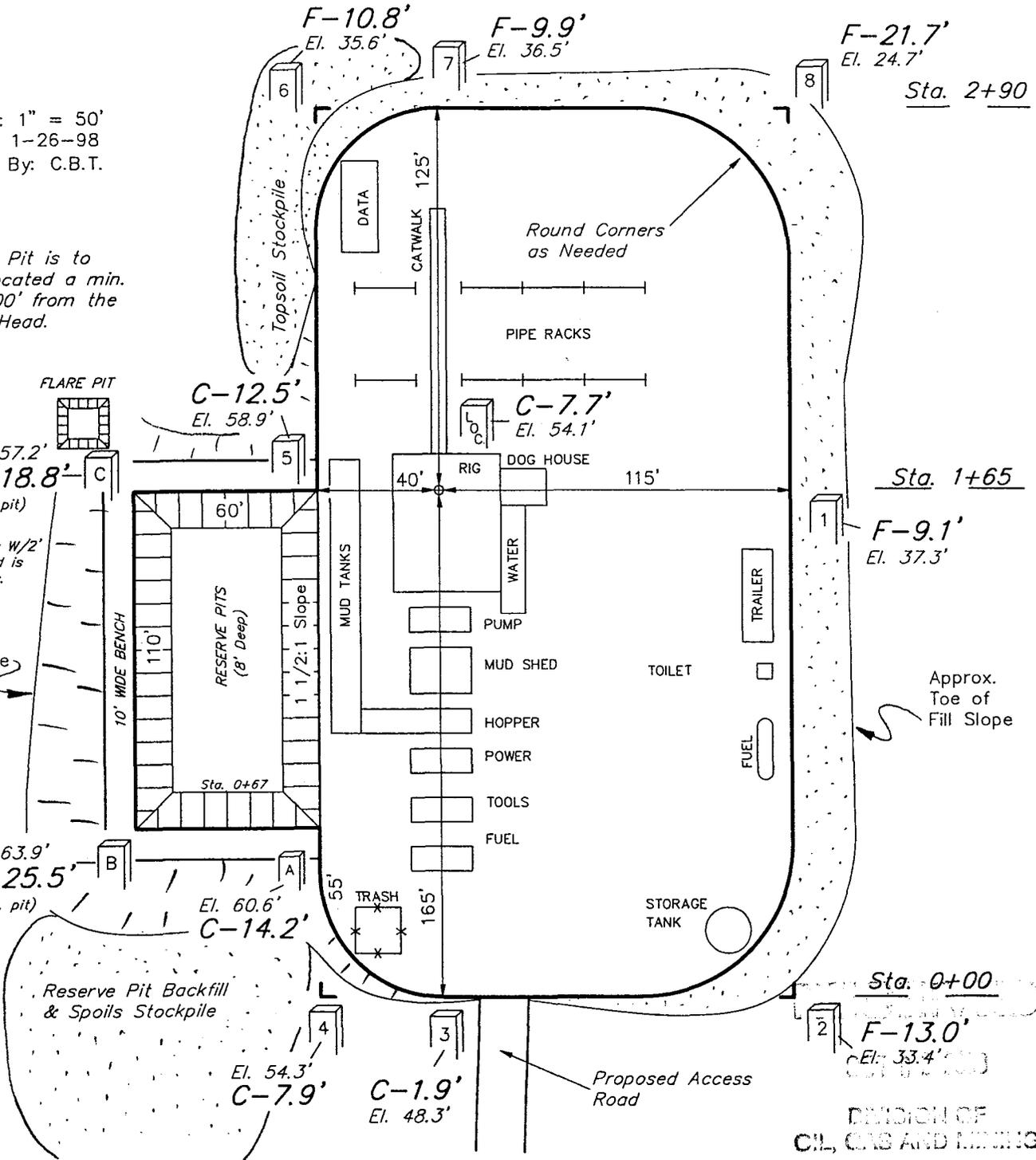
NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

NOTE:
Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

Approx. Top of Cut Slope

Approx. Toe of Fill Slope



Elev. Ungraded Ground at Location Stake = 6654.1'
Elev. Graded Ground at Location Stake = 6646.4'

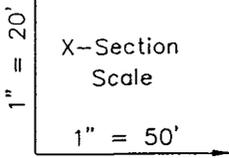
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

DIVISION OF OIL, GAS AND MINING

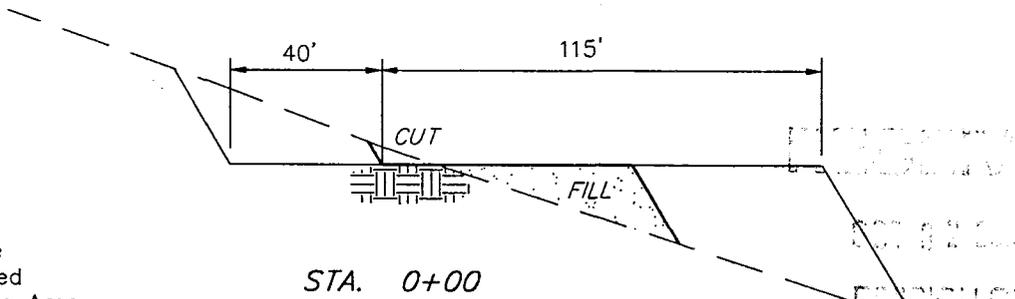
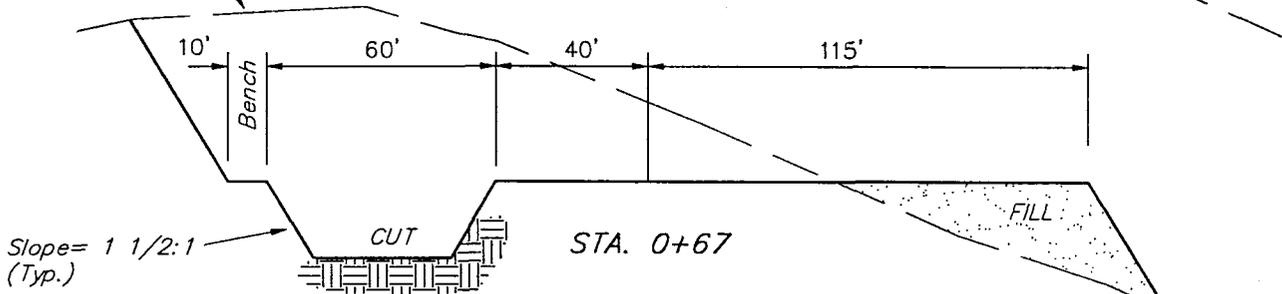
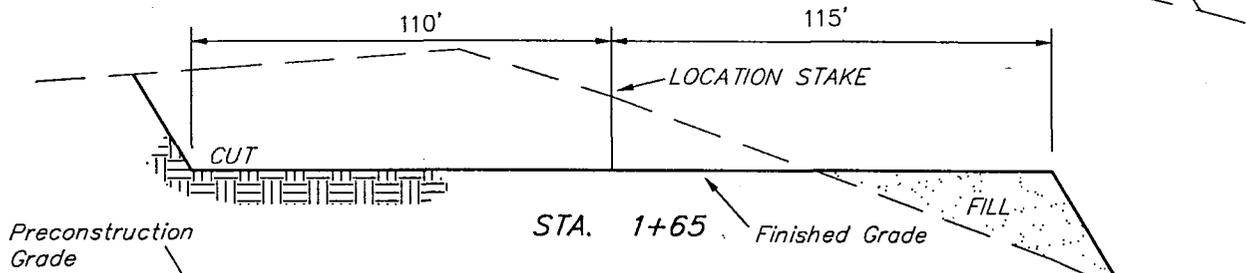
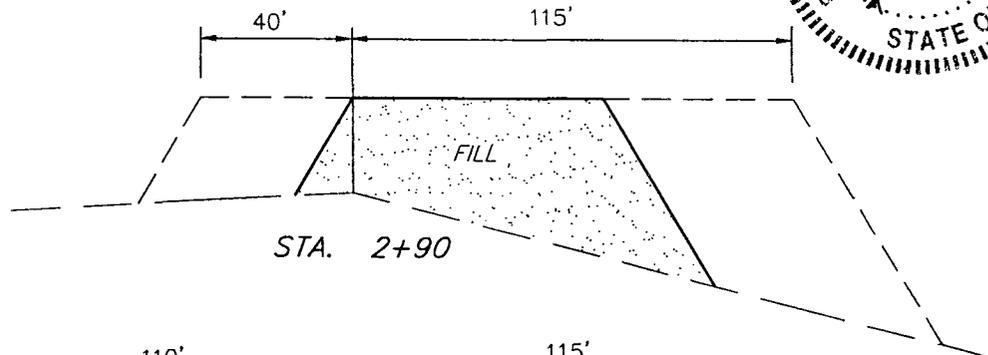
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #29-13
SECTION 29, T5S, R3W, U.S.B.&M.
660' FSL 660' FWL



DATE: 1-26-98
Drawn By: C.B.T.



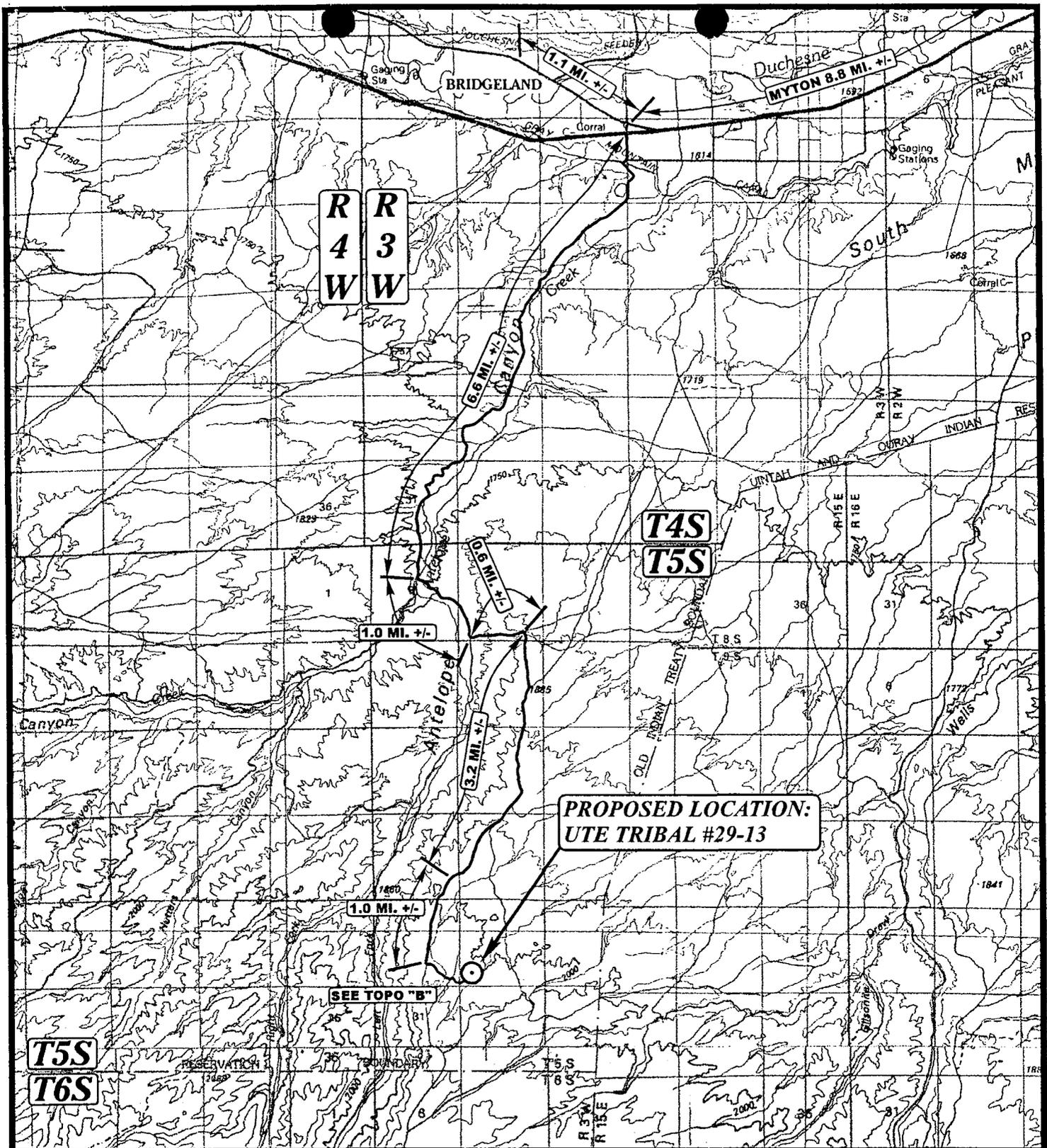
NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 1,910 Cu. Yds.
Remaining Location	= 10,800 Cu. Yds.
TOTAL CUT	= 12,710 CU.YDS.
FILL	= 9,600 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,610 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,610 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



**PROPOSED LOCATION:
UTE TRIBAL #29-13**

LEGEND:

○ PROPOSED LOCATION



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #29-13
SECTION 29, T5S, R3W, U.S.B.&M.
660' FSL 660' FWL



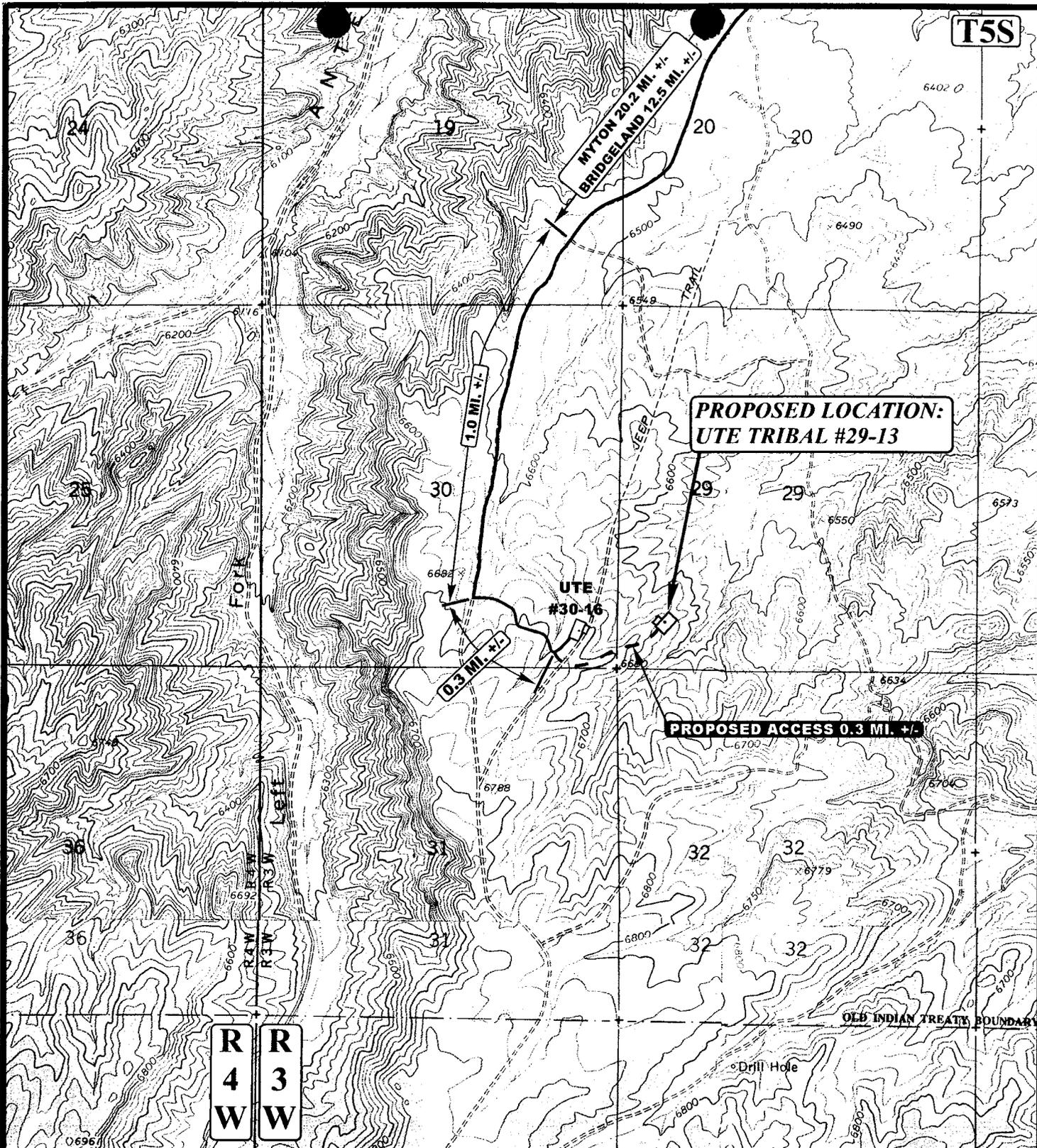
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP
SCALE: 1 : 100,000 DRAWN BY: D.COX REVISSED: 00-00-00

1 23 98
MONTH DAY YEAR



T5S



LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #29-13
 SECTION 29, T5S, R3W, U.S.B.&M.
 660' FSL 660' FWL



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



TOPOGRAPHIC
MAP

1	23	98
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00



T5S

**PROPOSED LOCATION:
UTE TRIBAL #29-13**

**R
4
W** **R
3
W**

LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #29-13
SECTION 29, T5S, R3W, U.S.B.&M.
660' FSL 660' FWL**

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



TOPOGRAPHIC **1 23 98**
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/02/2000

API NO. ASSIGNED: 43-013-32200

WELL NAME: UTE TRIBAL 29-13
 OPERATOR: PETROGLYPH ENERGY INC (N1425)
 CONTACT: ED TROTTER, AGENT

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:
 SWSW 29 050S 030W
 SURFACE: 0660 FSL 0660 FWL
 BOTTOM: 0660 FSL 0660 FWL
 DUCHESNE
 ANTELOPE CREEK (60)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2-Indian
 LEASE NUMBER: 14-20-H62-3518
 SURFACE OWNER: 2-Indian

PROPOSED FORMATION: DGCRK

RECEIVED AND/OR REVIEWED:

Flat
 Bond: Fed[] Ind[2] Sta[] Fee[]
 (No. B0 4556)

Potash (Y/N)
 Oil Shale (Y/N) *190 - 5 (B)
 Water Permit
 (No. 43-10152)

RDCC Review (Y/N)
 (Date: _____)

Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3. Unit Antelope Creek
 R649-3-2. General
 Siting: _____

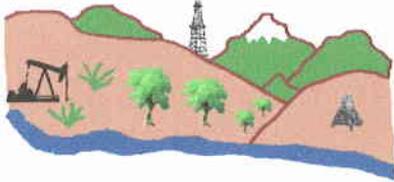
R649-3-3. Exception

Drilling Unit
 Board Cause No: 214-2 * Unit E. Enh. Rec.
 Eff Date: 6-9-2000
 Siting: _____

R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: ① FEDERAL APPROVAL



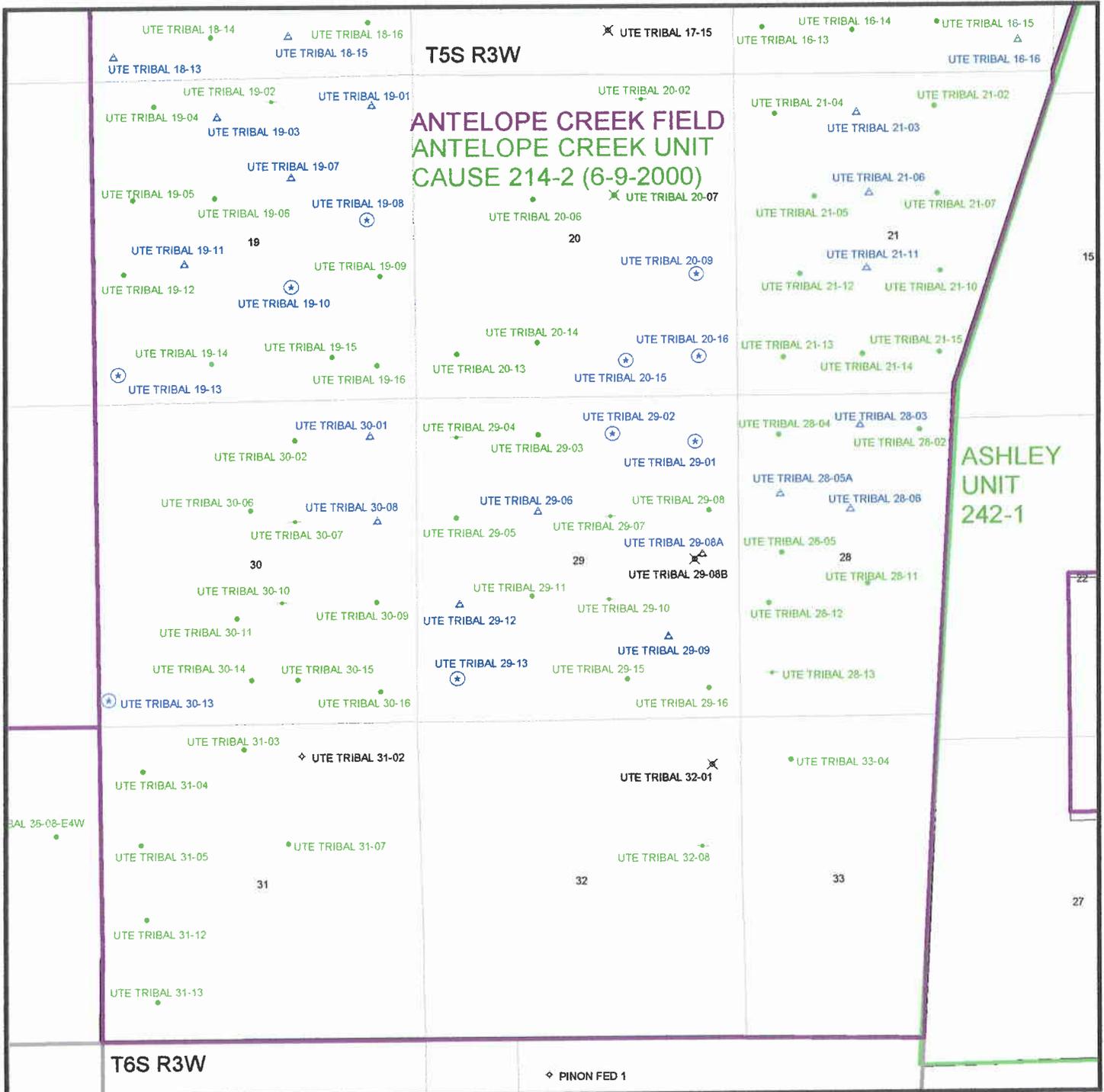
Utah Oil Gas and Mining

OPERATOR: PETROGLYPH ENERGY (N1425)

FIELD: ANTELOPE CREEK (060)

SEC. 20 & 29, T5S, R3W,

COUNTY: DUCHESNE UNIT: ANTELOPE CREEK
CAUSE: 214-2



PREPARED BY: LCORDOVA
DATE: 3-OCTOBER-2000



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

October 4, 2000

Petroglyph Energy, Inc.
PO Box 607
Roosevelt, UT 84066

Re: Ute Tribal 29-13 Well, 660' FSL, 660' FWL, SW SW, Sec. 29, T. 5 South, R. 3 West,
Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-013-32200.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

John R. Baza
Associate Director

er

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Energy, Inc.

Well Name & Number Ute Tribal 29-13

API Number: 43-013-32200

Lease: 14-20-H62-3518

Location: SW SW **Sec.** 29 **T.** 5 South **R.** 3 West

Conditions of Approval

1. 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.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL **DEEPEN**

b. TYPE OF WELL
Oil Well Gas Well Other
Single Zone Multiple Zone

2. Name of Operator
PETROGLYPH ENERGY, INC.

3. Address and Telephone Number
P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface
660' FSL & 660' FWL SW/SW
At proposed prod. Zone

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

15. Distance from proposed location to nearest property or lease line, ft.
(Also to nearest drig. Unit line, if any) **660'**

16. No. of acres in lease **640**

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

19. Proposed depth **6131'**

21. Elevations (show whether DF, RT, GR, etc.)
6646 FEET GRADED GROUND

22. Approx. date work will start
NOVEMBER 2000

5. Lease designation and serial number
BIA-14-20-H62-3518

6. If Indian, Allottee or Tribe name
UTE TRIBAL LAND

7. Unit Agreement Name
14-20-H62-4650

8. Farm or lease name, well no.
UTE TRIBAL

9. API Well No.
UT 29-13

10. Field and pool, or wildcat
ANTELOPE CREEK

11. Sec., T., R., M., or BLK. and survey or area
SEC. 29, T5S, R3W

12. County or parish
DUCHESNE

13. State
UTAH

17. No. of acres assigned to this well
40

20. Rotary or cable tools
ROTARY

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	135 SX CLASS "G" + 2% CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	5 1/2"	15.50#	6131'	50/50 POXMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

SEE ATTACHMENTS FOR:

- 8 POINT PLAN
- BOP SCHEMATIC
- SURFACE USE AND OPERATING PLAN
- LOCATION PLAT
- LOCATION LAYOUT
- TOPOGRAPHIC MAPS "A", "B", C AND "D"

CONFIDENTIAL

PETROGLYPH ENERGY, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND #BO 4556.

Pc: UTAH DIVISION OF OIL, GAS, AND MINING
BUREAU OF INDIAN AFFAIRS, FORT DUCHESNE, UTAH

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED *Ed Potter* TITLE Agent DATE 9-25-2000

NOTICE OF APPROVAL **CONDITIONS OF APPROVAL ATTACHED**

PERMIT NO. _____ APPROVAL DATE _____
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:
APPROVED BY *Jay Kengler* TITLE Assistant Field Manager
Mineral Resources DATE NOV 9 2000

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 29-13

API Number: 43-014-32200

Lease Number: 14-20-H62-3518

Location: SWSW Sec. 29 T.05S R.03W

Agreement: 14-20-H62-4650

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application 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.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint. Surface casing setting depths are based on ground level elevations only.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 648 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor proof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 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 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO 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 will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, contact one of the following individuals:

Ed Forsman (435) 789-7077 (HOME) (435) 646-1685 (PAGER)
Petroleum Engineer

Jerry Kenczka (435) 781-1190
Petroleum Engineer

BLM FAX Machine (435) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

75 foot wide right-of-ways shall be granted for the project. Upon separation of the pipeline corridor and the proposed access road, the roadway shall have a 30 foot wide corridor.

The Ute Tribe Energy and Mineral Department is to be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office days are Monday through Thursday. A Tribal Technician is to routinely monitor construction. For all monitoring that is to exceed Tribal Technician regular working hours, Petroglyph Operating shall make arrangements with the Ute Energy and Minerals Department.

Production water shall not be used to wet down roads for dust control.

For any deviations of submitted APD's and ROW applications, Petroglyph Operating Co. will notify the Ute Tribe and Bureau of Indian Affairs in writing and will receive written authorization of such changes. Without authorization, Petroglyph Operating Co. understands they will be subject to fines and penalties.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a 2000 Tribal Business License and have "Year 2000 Access Permits" prior to construction. Contractors and subcontractors will have these permits in vehicles at all times.

All Petroglyph Operating employees and/or authorized personnel (subcontractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

Petroglyph will implement "Safety and Emergency Plan." Petroglyph will ensure its compliance.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined and approved, and to the existing roadways and/or evaluated access routes.

All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

The personnel from the Ute Tribe Energy & Mineral Department shall be consulted if cultural remains (including paleontology fossils) from subsurface deposits are exposed or identified during construction. All construction will cease. Prior to commencing construction in the area where cultural resources are exposed the operator must obtain authorization from the BIA and the Ute Tribal Department of Cultural Rights and Protection.

Upon completion of construction of the rights-of-way, Petroglyph Operating will notify the Ute Tribe Energy & Minerals Resources Department. This will be done so that a Tribal Technician can verify Affidavit of Completions.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Soil erosion will be mitigated by reseeding all disturbed areas.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the pits are backfilled, the surplus oil and mud etc. will be buried a minimum depth of 3.0 feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. Low profile tanks may be used to minimize problems with irrigation systems. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Although the access road right of way is 30 feet wide, access roads shall have constructed travel width limited to 18 feet, except as granted for sharp curves or intersections or where deep cuts and fills are required for road construction.

Surface pipelines will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation without site specific authorization from BIA.

Where surface pipelines do not parallel roads but cross country between stations. The line shall either be welded in place at a welding station located at the wellsite or on roads near the flowline right of way and then dragged into place with a suitable piece of equipment so it will not destroy the natural vegetation. If the flowline doesn't follow existing and APD proposed new access roads then traffic shall be restricted along pipeline ROWs so that they will not be used as an access road.

Buried flowlines shall be a minimum of three feet below the surface. After the construction of the pipeline is completed the disturbed area of the ROW shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation. Between September 15 and November 1 of the year following pipeline construction of the buried line all disturbed areas shall be reseeded with perennial vegetation according to BIA, or to Ute Tribe specifications.

Petroglyph Operating employees, representatives, and subcontractors shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.



Petroglyph Energy, Inc.
1302 N. Grand
Hutchinson, KS 67502

P.O. Box 1839
Hutchinson, KS 67504-1839

316 665-8500
316 665-8577 fax

CONFIDENTIAL

January 2, 2001

Carol Daniels
State of Utah
Division of Oil, Gas & Mining
1594 W. North Temple, Ste. 1210
Salt Lake City, UT 84114

Carol:

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

Logs filed with log files

Well Name

Log

43-013-32199-Ute Tribal 29-02

HRI & Spectral Density Dual Spaced Neutron — SEC 29 T055 R03W

43-013-32700-Ute Tribal 29-13

HRI & Spectral Density Dual Spaced Neutron — SEC 29 T055 R03W

Please hold these in confidence as permitted in division guidelines. If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

Brooke Maxfield
Administrative Geological Technician
Petroglyph Energy, Inc.
1302 N. Grand
Hutchinson, KS 67501
E-mail: brooke@petroglyph.net

RECEIVED

JAN 05 2001

DIVISION OF
OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: Petroglyph Operating Co. 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
4301332201	Ute Tribal 29-14		sesw	29	05S	03W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	12216	12/23/2000		12-23-00		
Comments: The 29-14 will produce into the common tank battery at the Ute Tribal 30-15 Entity # 12216 1-30-01							

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301332200	Ute Tribal 29-13		sWSW	29	05S	03W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	12216	12/13/2000		12-13-00		
Comments: The 29-14 will produce into the common tank battery at the Ute Tribal 30-15 Entity # 12216 1-30-01							

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)

Micheal R. Safford

Name (Please Print)

Signature

Operations Coordinator

Title

1/15/2001

Date



JAN 16 2001

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

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

5. Lease Serial No.
1420H623518

6. If Indian, Allottee or Tribe Name
UTE TRIBAL

SUBMIT IN TRIPLICATE- Other Instructions on reverse side

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

8. Lease Name and Well No.
UTE TRIBAL #29-13

9. API Well No.
4301332200

1. Type of Well:

- Oil Well Gas Well Other

2. Name of Operator **PETROGLYPH OPERATING CO., INC**
CONTACT: MICHEAL SAFFORD COORDINATOR
EMAIL: mikes@petroglyph.net

3a. Address **4116 W 3000 S IOKA LANE, P.O. BOX 607**
ROOSEVELT, UT 84066

3b. Phone No. (include area code)
TEL: 435.722.2531 EXT:
FAX: 435.722.9145

10. Field and Pool, or Exploratory
ANTELOPE CREEK

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T5S R3W SWSW 660FSL 660FWL

11. County or Parish, State
DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> PRODUCTION START-UP	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Date of first production for the Ute Tribal 29-13 is 3/6/2001.

This well is produced into the common tank battery at the Ute Tribal 30-15

RECEIVED

MAY 13 2001

DIVISION OF
OIL, GAS AND MINING

Name (Printed/Typed)	Title
Signature	Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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

ELECTRONIC SUBMISSION #3829 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING CO., INC SENT TO THE VERNAL FIELD OFFICE



Petroglyph Energy, Inc.

P.O. Box 1839
 Hutchinson, KS 675041839
 (316) 665-8500

Drilling Chronological Report

CONFIDENTIAL

Well Name: UTE TRIBAL 29-13

Well User ID: 1507

AFE #: 41883

Operator: PETROGLYPH OPERATING COMP

WI: 1 **NRI:** 0

Loc: SW SW **STR:** 29 - 5S - 3W

AFEDHC: \$194,949

County: DUCHESNE, UT **API Code:** 043-013-32200-00-

AFECWC: \$473,918

Field: ANTELOPE CREEK

AFE Type: Drilling

Contractor: Union Drilling

Proposed Depth: 6131

Spud Date: 12/13/2000 **Rig Rel Date:** 12/22/200

Daily Drilling Details Report

Activity Date: 12/22/2000

Formation:

Current Depth: 6131 ft.

Days From Spud: 10

24 Hr. Footage Made: 0 ft.

Activity: Run Casing & Cement

Weather:

Operations: 06:00 to 08:00 - Trips - Trip in hole.
 08:00 to 13:00 - Trips - LD DP and DC'S.
 13:00 to 17:00 - Run Casing & Cement - Run 150 jts 5-1/2" 15.5# K-55 8rd csg. Set @ 6103.89 (includes marker jt).
 17:00 to 17:45 - Condition Mud & Circulate - Circulate hole prep to cmt.
 17:45 to 19:30 - Run Casing & Cement - Cement csg w/ 231 sks Prem-plus, 16% gel, .75% EX-1, .125#/sk Poly E Flak 5#/sk gilsonite, .5% HR-7, 11.0 ppg. Lead. 392 sks Prem AG 300, 10% Cal seal, 5#/sk Gilsonite, 14.2 ppg. Tail.
 19:30 to 20:30 - ND BOP - ND BOP and set slips w/ 68000#.
 20:30 to 00:30 - Rig Up & Tear Down - Rig DN rig and equipment and release rig.

Formation Tops

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Ref Subsea	+/- To Ref Well	Comments

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
12/14/2000	0	0	Surface	0	0			12.25	319
12/22/2000	6104	1	Production	0	0		4.95	7.875	6131



Petroglyph Energy, Inc.

P.O. Box 1839
Hutchinson, KS 675041839
(316) 665-8500

Drilling Chronological Report

CONFIDENTIAL

Well Name: UTE TRIBAL 29-13
Well User ID: 1507 **AFE #:** 41883
Operator: PETROGLYPH OPERATING COMP **WI:** 1 **NRI:** 0
Loc: SW SW **STR:** 29 - 5S - 3W **AFEDHC:** \$194,949
County: DUCHESNE, UT **API Code:** 043-013-32200-00- **AFECWC:** \$473,918
Field: ANTELOPE CREEK **AFE Type:** Drilling
Contractor: Union Drilling **Proposed Depth:** 6131
Spud Date: 12/13/2000 **Rig Rel Date:** 12/22/2000

Daily Drilling Details Report

Activity Date: 12/19/2000 **Formation:** **Current Depth:** 5515 ft.
Days From Spud: 7 **24 Hr. Footage Made:** 1001 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 10:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL f/ 4514' KB to 4700' KB.
10:00 to 11:00 - Deviation Survey - Deviation survey @ 4646' KB = 2 degrees. Service rig and pump.
11:00 to 16:15 - Drilling - Drilling 7-7/8" hole w/ 2% KCL f/ 4700' KB to 4944' KB.
16:15 to 17:00 - Lubricate Rig - Service rig and light plant, changed oil in draw works motor.
17:00 to 21:45 - Drilling - Drilling 7-7/8" hole w/ 2% KCL f/ 4944' KB to 5163' KB.
21:45 to 22:15 - Deviation Survey - Deviation survey @ 5163' KB = 1 degree.
22:15 to 06:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL f/ 5163' KB to 5515' KB.

Daily Drilling Details Report

Activity Date: 12/20/2000 **Formation:** **Current Depth:** 6090 ft.
Days From Spud: 8 **24 Hr. Footage Made:** 575 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 16:15 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 5515' KB to 5747' KB.
16:15 to 16:45 - Deviation Survey - Deviation survey @ 5747' KB = 1-1/2 degrees. Service rig and equipment.
16:45 to 06:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 5747' KB to 6090' KB.

Daily Drilling Details Report

Activity Date: 12/21/2000 **Formation:** **Current Depth:** 6131 ft.
Days From Spud: 9 **24 Hr. Footage Made:** 41 ft.
Activity: Wireline Logs **Weather:**
Operations: 06:00 to 08:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 6090' KB to 6131' KB.
08:00 to 09:00 - Condition Mud & Circulate - Circulate hole prep to log.
09:00 to 13:00 - Trips - TOOH for logs.
13:00 to 03:30 - Wireline Logs - Log well w/ Halliburton.
03:30 to 06:00 - Trips - Trip in hole.



CONFIDENTIAL

Well Name: UTE TRIBAL 29-13
Well User ID: 1507 **AFE #:** 41883
Operator: PETROGLYPH OPERATING COMP **WI:** 1 **NRI:** 0
Loc: SW SW **STR:** 29 - 5S - 3W **AFEDHC:** \$194,949
County: DUCHESNE, UT **API Code:** 043-013-32200-00- **AFECWC:** \$473,918
Field: ANTELOPE CREEK **AFE Type:** Drilling
Contractor: Union Drilling **Proposed Depth:** 6131
Spud Date: 12/13/2000 **Rig Rel Date:** 12/22/2000

Daily Drilling Details Report

Activity Date: 12/17/2000 **Formation:** **Current Depth:** 3850 ft.
Days From Spud: 5 **24 Hr. Footage Made:** 1576 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 09:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 2274' - 2554' (Bit No. 3)
09:00 to 10:00 - Deviation Survey - Survey @ 2514', 1-1/2° and Rig service
10:00 to 15:45 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 2554' - 3055'
15:45 to 16:15 - Deviation Survey - Survey @ 3055', 2°
16:15 to 01:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 3055' - 3586'
01:00 to 01:45 - Deviation Survey - Survey @ 3550', 1-1/2° and Rig service
01:45 to 06:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 3586' - 3850'

Daily Drilling Details Report

Activity Date: 12/18/2000 **Formation:** **Current Depth:** 4514 ft.
Days From Spud: 6 **24 Hr. Footage Made:** 664 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 12:00 - Drilling - Drilling 7-7/8" hole w/ air foam f/ 3850' KB to 4211'KB.
12:00 to 12:30 - Deviation Survey - Deviation survey @ 4180' KB = 1-3/4°. Service rig and equipment.
12:30 to 13:00 - Condition Mud & Circulate - Load hole w/ 2% KCL and circulate.
13:00 to 17:00 - Trips - TOOH PU mud motor.
17:00 to 17:15 - Lubricate Rig - Service rig.
17:15 to 18:30 - Trips - TIH.
18:30 to 19:00 - Drilling - Break circulation.
19:00 to 21:00 - Trips - TIH.
21:00 to 23:00 - Drilling - Break circulation and drilling 7-7/8" hole w/ 2% KCL f/ 4211' KB to 4273' KB.
23:00 to 23:30 - Other - Rechain BOP.
23:30 to 00:45 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 4273' KB to 4334' KB.
00:45 to 01:15 - Repair Rig - Repair leak on draw works transmission.
01:15 to 02:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 4334' KB to 4380' KB.
02:00 to 03:00 - Repair Rig - Out of water, prime pumps, build volume.
03:00 to 06:00 - Drilling - Drilling 7-7/8" hole w/ 2% KCL water f/ 4380' KB to 4514' KB.



Petroglyph Energy, Inc.

P.O. Box 1839
Hutchinson, KS 675041839
(316) 665-8500

Drilling Chronological Report

CONFIDENTIAL

Well Name: UTE TRIBAL 29-13
Well User ID: 1507 **AFE #:** 41883
Operator: PETROGLYPH OPERATING COMP **WI:** 1 **NRI:** 0
Loc: SW SW **STR:** 29 - 5S - 3W **AFEDHC:** \$194,949
County: DUCHESNE, UT **API Code:** 043-013-32200-00- **AFECWC:** \$473,918
Field: ANTELOPE CREEK **AFE Type:** Drilling
Contractor: Union Drilling **Proposed Depth:** 6131
Spud Date: 12/13/2000 **Rig Rel Date:** 12/22/2000

Daily Drilling Details Report

Activity Date: 12/15/2000 **Formation:** **Current Depth:** 777 ft.
Days From Spud: 3 **24 Hr. Footage Made:** 424 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 15:00 - Nipple up B.O.P. - Nipple up BOP
15:00 to 15:30 - Lubricate Rig - Rig service
15:30 to 17:00 - Test B.O.P. - Test BOP, Kelly and Choke manifold
17:00 to 18:30 - Trips - TIH w/ Bit No. 3 (7-7/8" ETD 35, SN 141438)
18:30 to 20:45 - Other - Tag CMT @ 276' - Drlg CMT
20:45 to 21:15 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 353' - 363' - Survey and leak off test
21:15 to 22:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 363' - 410'
22:00 to 22:15 - Deviation Survey - Survey @ 410' - 1 Degree
22:15 to 02:45 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 410' - 622'
02:45 to 03:30 - Nipple up B.O.P. - Install new air head rubber
03:30 to 06:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 622' - 777'

Daily Drilling Details Report

Activity Date: 12/16/2000 **Formation:** **Current Depth:** 2274 ft.
Days From Spud: 4 **24 Hr. Footage Made:** 1497 ft.
Activity: Drilling **Weather:**
Operations: 06:00 to 11:15 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 777' - 1151' (Bit No. 3)
11:15 to 11:30 - Deviation Survey - Survey @ 1111', 2 1/2°
11:30 to 12:30 - Lubricate Rig - Rig service
12:30 to 17:15 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 1151' - 1463'
17:15 to 17:30 - Lubricate Rig - Rig service
17:30 to 20:15 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 1463' - 1651'
20:15 to 20:30 - Deviation Survey - Survey @ 1651, 3/4°
20:30 to 06:00 - Drilling - Drlg 7-7/8" hole w/ air foam mist f/ 1651' - 2274'



CONFIDENTIAL

Well Name: UTE TRIBAL 29-13
Well User ID: 1507
Operator: PETROGLYPH OPERATING COMP
Loc: SW SW **STR:** 29 - 5S - 3W
County: DUCHESNE, UT **API Code:** 043-013-32200-00-
Field: ANTELOPE CREEK
Contractor: Union Drilling
Spud Date: 12/13/2000 **Rig Rel Date:** 12/22/2000

AFE #: 41883
WI: 1 **NRI:** 0
AFEDHC: \$194,949
AFECWC: \$473,918
AFE Type: Drilling
Proposed Depth: 6131

Daily Drilling Details Report

Activity Date: 12/13/2000 **Formation:** **Current Depth:** 0 ft.
Days From Spud: 1 **24 Hr. Footage Made:** 0 ft.
Activity: **Weather:**
Operations: 10:00 to 18:30 - Rig Up & Tear Down - RD rig and equipment, move to U.T. # 29-13. RU rig and equipment.
 18:30 to 06:00 - Drilling - Drilling 17-1/4" and 12-1/2" conductor hole w/ air foam mist. Very bad sluffing problem. Set 14 16" csg.

Daily Drilling Details Report

Activity Date: 12/14/2000 **Formation:** **Current Depth:** 353 ft.
Days From Spud: 2 **24 Hr. Footage Made:** 353 ft.
Activity: Run Casing & Cement **Weather:**
Operations: 06:00 to 09:00 - Drilling - Cut off 16" conductor and dress 13-3/8" conductor. Drilling to 46' KB.
 09:00 to 11:30 - Nipple up B.O.P. - NU air head and fill in washed out area under sub base w/ gel.
 11:30 to 17:45 - Drilling - Drilling 12-1/4" hole w/ air foam mist f/ 46' KB to 353' KB.
 17:45 to 18:15 - Condition Mud & Circulate - Circulate and blow hole prior to running 8-5/8" csg.
 18:15 to 19:30 - Trips - TOOH.
 19:30 to 20:30 - Other - ND air head and pull conductor pipe.
 20:30 to 22:00 - Run Casing & Cement - Run 8 jts 8-5/8" 24# k-55 8rd csg. Talley = 314', set @ 319' G.L.. Could not circulate the last 5' of csg DN.
 22:00 to 23:00 - Repair Rig - Work on mud pump.
 23:00 to 23:30 - Condition Mud & Circulate - Wash csg DN 10'.
 23:30 to 00:30 - Run Casing & Cement - Cmt 8-5/8" csg w/ 200 sks Prem. Plus 2% CACL2, .125#/sk Poly Flake. Circul 8 BBLS of cmt to surface.
 00:30 to 04:30 - Wait on Cement - WOC.
 04:30 to 06:00 - Nipple up B.O.P. - NU and clean cellar.



Petroglyph Energy, Inc.

P.O. Box 1839
Hutchinson KS 67504-1839
Phone : (316) 665-8500 Fax : (316) 665-8577

Completion Chron Report

CONFIDENTIAL

UTE TRIBAL 29-13 Completion Chronological Report Page 4 of 4

Well Name : UTE TRIBAL 29-13

Well User ID : 1507

AFE # : 41883

Operator : PETROGLYPH OPERATING COMPANY

WI : 1 NRI 0

Loc : STR : 29 -5S -3W

County : DUCHESNE, UT APICode : 043-013-32200-0

Field : ANTELOPE CREEK

Contractor :

AFE Type : Drilling

Spud Date : 12/13/2000 Rig Rel Date : 12/22/2000

Total Depth : 6143 ft.

Comp Date :

PBTD : 0 ft.

Date : 3/3/2001 Activity: Surface Work Days On Completion : 40

Rpt Summary :

Report Detail : 07:00 to 14:00 - Surface Work - Finish tying in flow lines & trace lines. Banded corners, cleaned up extra pipe.

Date : 3/5/2001 Activity: Surface Work Days On Completion : 42

Rpt Summary :

Report Detail : 10:00 to 19:30 - Surface Work - Loaded & hauled left over pipe to 20-02, strung 1" poly & tie'd in fuel gas, help fill line heater & got line heater burning.

Date : 3/6/2001 Activity: Surface Work Days On Completion : 43

Rpt Summary :

Report Detail : 07:00 to 10:00 - Surface Work - Help install weights on pumping unit.

Date : 3/8/2001 Activity: Surface Work Days On Completion : 45

Rpt Summary :

Report Detail : 17:00 to 18:30 - Surface Work - Pick up loc & haul trash to 20-02.

Date : 3/9/2001 Activity: Surface Work Days On Completion : 46

Rpt Summary :

Report Detail : 14:00 to 18:00 - Surface Work - built safty fench around pumping unit & bull wheel.

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
12/14/2000	0	0	Surface	0	0			12.25	319
12/22/2000	6104	1	Production	0	0		4.95	7.875	6131

Well Perforation History

(This shows only the perforations for this project or day)

Date	Formation	Perf Status	Upper Perf	Lower Perf	Sht / Ft	Description:
1/24/2001	B2	Open	4016	4028	4	
1/24/2001	B2	Open	4030	4034	4	
1/24/2001	D7	Open	5182	5184	4	
1/24/2001	D7	Open	5186	5191	4	
1/24/2001	D7	Open	5194	5196	4	
1/24/2001	D7	Open	5201	5205	4	
1/24/2001	E1.1	Open	5547	5555	4	



UTE TRIBAL 29-13 Completion Chronological Report Page 3 of 4

Well Name : UTE TRIBAL 29-13

Well User ID : 1507

AFE # : 41883

Operator : PETROGLYPH OPERATING COMPANY

WI : 1

NRI 0

Loc : STR : 29 -5S - 3W

County : DUCHESNE, UT APICode : 043-013-32200-0

Field : ANTELOPE CREEK

Contractor :

AFE Type : Drilling

Spud Date : 12/13/2000 Rig Rel Date : 12/22/2000

Total Depth : 6143 ft.

Comp Date :

PBTD : 0 ft.

Date : 2/12/2001 Activity: Surface Work Days On Completion : 21

Rpt Summary :

Report Detail : 07:00 to 12:00 - Surface Work - Went to loc finish road crossing, cut old flow line at tie in point, move flow line up o ROW & put on blocks, fix leak in 1" poly.

Date : 2/14/2001 Activity: Surface Work Days On Completion : 23

Rpt Summary :

Report Detail : 07:00 to 18:00 - Surface Work - made final tie ins @ flow line, haul ajax from 20-02 & set, start hooking up trace lin

Date : 2/15/2001 Activity: Surface Work Days On Completion : 24

Rpt Summary :

Report Detail : 10:00 to 15:00 - Surface Work - Remodele'd belt guard , mounted trace pump, line'd up sheaves on ajax.

Date : 2/23/2001 Activity: Surface Work Days On Completion : 32

Rpt Summary :

Report Detail : 09:00 to 15:00 - Surface Work - removed pit man arms from pumping unit & lengthen f/103" to 128".

Date : 2/26/2001 Activity: Surface Work Days On Completion : 35

Rpt Summary :

Report Detail : 08:00 to 16:00 - Surface Work - put pitman arms back on unit, hung rods off, cut cross member so unit will set leve on cement. Tie'd down pumping unit hooked up trace & lines hooked up trace. Clean up loc.

Date : 2/27/2001 Activity: Surface Work Days On Completion : 36

Rpt Summary :

Report Detail : 10:00 to 20:00 - Surface Work - built ROW load & hauled flow line pipe f/ 20-02 set & weld 1050' 25 jts.

Date : 2/28/2001 Activity: Surface Work Days On Completion : 37

Rpt Summary :

Report Detail : 07:00 to 10:00 - Surface Work - Load & haul 1 1/2" trace line pipe, finished welding 2 1/2" flow line, 23 jts 966' & pu on south side of loc.

Date : 3/1/2001 Activity: Surface Work Days On Completion : 38

Rpt Summary :

Report Detail : 07:00 to 19:30 - Surface Work - Weld & pulled 4032' 1 1/2" trace line pipe, moved to south side of loc. Strung block

Date : 3/2/2001 Activity: Surface Work Days On Completion : 39

Rpt Summary :

Report Detail : 07:00 to 19:00 - Surface Work - Skid & band f 29-13 to 30-16 road tie in point tie'd in 29-13 flow line. Moved small line heater f/ 30-16 to 29-13 flow line & tie'd in.



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UTE TRIBAL 29-13 Completion Chronological Report Page 2 of 4

Well Name : UTE TRIBAL 29-13

Well User ID : 1507

AFE # : 41883

Operator : PETROGLYPH OPERATING COMPANY

WI : 1

NRI 0

Loc : STR : 29 -5S - 3W

County : DUCHESNE, UT APICode : 043-013-32200-0

Field : ANTELOPE CREEK

Contractor :

AFE Type : Drilling

Spud Date : 12/13/2000 Rig Rel Date : 12/22/2000

Total Depth : 6143 ft.

Comp Date :

PBTD : 0 ft.

Date : 1/29/2001 Activity: Run tubing and rods Days On Completion : 7

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.

07:00 to 12:00 - Swab - Made 17 runs recovered 128 bbls fluid the final run had 40% oil cut. IFL 800', FFL 2700'.

12:00 to 14:00 - Land tbg - Tag PBTD @ 5786' and LD 6 jts tbg. ND BOP set TA in 12K tension, NU wellhead.

14:00 to 18:00 - Run rods - Flush tbg w/ 30 bbls wtr, PU RIH w/ pump and rods. PU polish rod seat pump fill tbg w/ 12 bbls wtr and test to 800 psi.

18:00 to 19:00 - Travel - Crew travel.

Date : 1/30/2001 Activity: RDMO Rig Days On Completion : 8

Rpt Summary :

Report Detail : 08:00 to 09:00 - Travel - Crew travel.

09:00 to 12:00 - RDMOL - w/ service unit and equipment, shovel out flat tank.

12:00 to 13:00 - Travel - Crew travel.

Date : 1/30/2001 Activity: Surface Work Days On Completion : 8

Rpt Summary :

Report Detail : 07:00 to 10:00 - Surface Work - Haul 1- load gravel for pump jack pad.

Date : 1/31/2001 Activity: Surface Work Days On Completion : 9

Rpt Summary :

Report Detail : 13:00 to 20:00 - Surface Work - Built pump jack pad, help B&G put together & set pumping unit. Hung rods off.

Date : 2/7/2001 Activity: Surface Work Days On Completion : 16

Rpt Summary :

Report Detail : 07:00 to 19:00 - Surface Work - Put WH manifold together stubb out to flow line, start laying trace lines.

Date : 2/8/2001 Activity: Surface Work Days On Completion : 17

Rpt Summary :

Report Detail : 07:00 to 18:00 - Surface Work - Finish WH const, trace WH & bypass, ran trace lines to trace pump, work on flow line to edge of loc.

Date : 2/10/2001 Activity: Surface Work Days On Completion : 19

Rpt Summary :

Report Detail : 13:00 to 18:00 - Surface Work - Tie'd in fuel gas to csg, & back to engine, haul rack to loc set up to pull & weld flow line f/ 30-15 batt, to ROW for 29-13 & 29-14 flow line.

Date : 2/11/2001 Activity: Surface Work Days On Completion : 20

Rpt Summary :

Report Detail : 10:00 to 18:00 - Surface Work - Built crossing, dug road install'd pipe back fill'd road crossing.

WELL DATA

WELL SEARCH

WELL DATA

WELL HISTORY

WELL ACTIVITY

LOOK UP: OPERATOR NAME / ACCOUNT

LOOK UP: FIELD NAME / NUMBER

SEARCH KEYS (Enter desired keys and press 'Enter' or click on 'Search')

API NUMBER WELL NAME
 OPERATOR ACCOUNT WELL STATUS/TYPE
 FIELD NUMBER ENTITY NUMBER
 SECTION / TOWNSHIP / RANGE / MERIDIAN

4301332194 : UTE TRIBAL 18-04

1/7



SEARCH

CLEAR KEYS

PRINT ALL

GET ALL WELLS

API	WELL NAME	ACCOUNT	ALT-ADD	STATUS	WELL TYPE	FIELD	QTR/QTR	SEC	TWP	RNG	MERIDIAN	COUNTY	SU
4301332194	UTE TRIBAL 18-04	N1425	#	APD	OW	630	NWNW	18	050S	030W	U	DUCHESNE	
4301332195	UTE TRIBAL 20-09	N1425	#	APD	OW	630	NESE	20	050S	030W	U	DUCHESNE	
4301332196	UTE TRIBAL 20-15	N1425	#	APD	OW	630	SWSE	20	050S	030W	U	DUCHESNE	
4301332197	UTE TRIBAL 20-16	N1425	#	APD	OW	60	SESE	20	050S	030W	U	DUCHESNE	
4301332198	UTE TRIBAL 29-01	N1425	#	I	WI	60	NENE	29	050S	030W	U	DUCHESNE	07:
4301332200	UTE TRIBAL 29-13	N1425	#	DRL	OW	60	SWSW	29	050S	030W	U	DUCHESNE	
4301332201	UT 29-14	N1425	#	DRL	GW	60	SESW	29	050S	030W	U	DUCHESNE	

MY COMPUTER UTM COORDS

INTERNET EXPLORER ACROBAT READE...

RECYCLE BIN QUICK PLAY

HP 2500C TOOLBOX WINA

(D) ZIP 250 ACDS TRIA

NETSCAPE GET COMMUN... QUICK

NETWORK NEIGHB... LA LIS ALL WE

GROUP... 5 LA LIS STATE ...

OIL & GAS RBDMSX 2005

MAIL FROM: CAROLYN WILLIAMS

FILE EDIT VIEW ACTIONS TOOLS WINDOW HELP

From: Carolyn Williams CC:

To: Cordova, Lisha; Staley, Don; Thom(...)

Subject: PETROGLYPH

Message:

When I printed the February turnaround one of Petroglyphs wells came out under N1425. I also found several in the system that are drilling and APD status.

I talked with Mike at Petroglyph and he said that all the wells should be under N3800. Petroglyph Energy Inc N1425 is the public part of the company but all the wells are operated under Petroglyph Operating Co and he wants all the wells under the same account number.

**010314 updated & called op. APD's should be submitted under correct name. LC*

DATE: 3/12/01 9:36AM

	DATE
	01/29/01
	02/06/01
	02/07/01
	02/16/01
ITY	02/16/01
B/01	02/16/01
S	02/23/01
AR NOMINA	03/02/01
	03/07/01
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INTERNET PR	03/12/01
	03/12/01
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OR THE NI	03/13/01

D: 1 TOTAL: 19

Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Workover Deepen Plug Back Diff. Resvr.
 Other _____

5. Lease Serial No.
1420H623518

6. If Indian, Allottee or Tribe Name
UTE TRIBAL

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

2. Name of Operator
PETROGLYPH OPERATING CO., INC

CONTACT: MICHEAL SAFFORD
EMAIL: mikes@petroglyph.net

8. Lease Name and Well No.
UTE TRIBAL #29-13

3. Address **4116 W 3000 S IOKA LANE, P.O. BOX 607
ROOSEVELT, UT 84066**

3a. Phone No. (include area code)
TEL: 435.722.2531 EXT:

9. API Well No.
4301332200

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface **SWSW 660FSL 660FWL**

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10. Field and Pool, or Exploratory
ANTELOPE CREEK

At top prod. interval reported below **SWSW 660FSL 660FWL**

11. Sec., T., R., M., on Block and Survey or Area **Sec 29 T5S R3W UBM**

At total depth **SWSW 660FSL 660FWL**

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
12/13/01

15. Date T.D. Reached
12/21/01

16. Date Completed **1/29/01**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6646 GL

18. Total Depth: MD **6131** TVD
19. Plug Back T.D.: MD **5786** TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **HRI-1-5-01**
Spectral Density / ASN - 1-5-01

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	8.625 K-65	24		329		200			
7.875	5.5 K-55	15.5		6104		623			

24. Tubing Record

Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)
2.875	5593							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	4016	5555	4016 To 5555			OPEN
B)						
C)						
D)						

RECEIVED

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4016 To 4034	FRAC WITH 12,500 20/40 & 19,000 16/30(2)
5182 To 5205	FRAC WITH 12,500 20/40 & 19,000 16/30
5547 To 5555	FRAC WITH 10,000 20/40 & 11,000 16/30

MAY 14 2001

DIVISION OF OIL, GAS AND MINING

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
3/6/01	3/11/01	24	→	70	60	45			GAS PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	PRODUCING OIL WELL

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

CONFIDENTIAL

(See instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #3637 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING CO., INC SENT TO THE VERNAL FIELD OFFICE

PERIOD EXPIRED

02-28-02

4/26/2001

CONFIDENTIAL

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas. Depth
B2	4016	4034		B MARKER	3950
D7	5182	5205		X MARKER	4457
E1.1	5547	5555		Y MARKER	4493
				B LIME	4968
				BASE CASTLE PEAK LIME	5512
				BASAL CARBONATE	5943

32. Additional remarks (include plugging procedure):

NO REMARK PROVIDED

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Name (please print) _____ Title _____

Signature _____ Date _____

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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ELECTRONIC SUBMISSION #3637 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING CO., INC SENT TO THE VERNAL FIELD OFFICE



UTE TRIBAL 29-13 Completion Chronological Report Page 1 of 4

Well Name : UTE TRIBAL 29-13
 Well User ID : 1507 AFE # : 41883
 Operator : PETROGLYPH OPERATING COMPANY WI : 1 NRI 0
 Loc : STR: 29 -5S -3W
 County : DUCHESNE, UT API Code : 043-013-32200-0
 Field : ANTELOPE CREEK
 Contractor : AFE Type : Drilling
 Spud Date : 12/13/2000 Rig Rel Date : 12/22/2000 Total Depth : 6143 ft.
 Comp Date : PBTD : 0 ft.
 Job Purpose :

Completions Detail Report

Date : 1/23/2001 Activity: PU Tubing Days On Completion : 1

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.
 07:00 to 10:00 - MIRU - Service unit and equipment. Ran sand line magnet to retrieve hammer head,(unable to retrieve).
 10:00 to 12:00 - PU tbg - RIH w/ bit scraper and 2 7/8" tbg to PBTD @ 5786'. POOH to 5590' and SDFD.
 12:00 to 13:00 - Travel - Crew travel.

Date : 1/24/2001 Activity: Frac Days On Completion : 2

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.
 07:00 to 09:00 - POOH - Pressure test csg to 4500 psi spot acid over E1.1 and POOH.
 09:00 to 11:00 - Perf & Frac - E1.1 zone.
 11:00 to 14:00 - Perf & Frac - D7 zone.
 14:00 to 16:00 - Perf & Frac - B2 zone.
 16:00 to 17:30 - Flowback - B2 zone 1-bpm, recovered 80 bbls fluid before shut in.
 17:30 to 18:30 - Travel - Crew travel.

Date : 1/25/2001 Activity: Retrieve Plug Days On Completion : 3

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.
 07:00 to 12:00 - Ret plug - RIH w/ ret head and tbg, tag sd @ 3560' C/O to plug @ 4070'. Retrieve and POOH.
 12:00 to 15:00 - Ret plug - RIH w/ ret head and tbg, tag sd @ 5190' C/O to plug @ 5250'. Retrieve and POOH.
 15:00 to 17:00 - Run tbg - RIH w/ production tbg to 3339', SDFD.
 17:00 to 18:00 - Travel - Crew travel.

Date : 1/26/2001 Activity: Swabbing Days On Completion : 4

Rpt Summary :

Report Detail : 06:00 to 07:00 - Travel - Crew travel.
 07:00 to 09:00 - GIH - Finish RIH w/ production tbg and C/O 70' of sand to PBTD @ 5786'.
 09:00 to 17:00 - Swab - Made 28 runs recovered 215 bbls fluid. IFL was at surface, FFL 2600' and the final run was 20% oil cut.
 17:00 to 18:00 - Travel - Crew travel.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

999 18TH STREET - SUITE 200
DENVER, CO 80202-2466
Phone: 800-227-8917
<http://www.epa.gov/region08>

JAN 3 2007

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Steve Wall
District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

43-013-32200

Re: Additional Well to Antelope Creek Area Permit
UIC Permit No. UT20736-00000
Well ID: UT20736-07417
Ute Tribal No. 29-13
Duchesne County, Utah

SS 3W 29

Dear Mr. Wall:

The Petroglyph Energy, Inc.'s (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No. 29-13 to an enhanced recovery injection well in the Antelope Creek Waterflood project is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of title 40 Code of Federal Regulations §144.33 (c) and terms of the Antelope Creek Waterflood UIC Area Permit No. UT20736-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Ute Tribal No. 29-13 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

Prior to receiving authorization to inject, the EPA requires that Petroglyph submit for review and approval the following: (1) the results of a Part I (Internal) mechanical integrity test (MIT), (2) a pore pressure calculation of the injection interval, and (3) a completed EPA Form No. 7520-12 Well Rework Record.

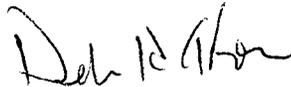
Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JAN 08 2007
DIV. OF OIL, GAS & MINING

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No. 29-13 was determined to be **1458 psig**. UIC Area Permit UT20736-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step-rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Ms. Linda Bowling at (303) 312-6254 or 1.800.227.8917 (Ext. 6254). Please submit the required data to **ATTENTION: LINDA BOWLING**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

encl: Authorization For Additional Well
EPA Form No. 7520-12 (Well Rework Record)
Prior to Beginning Injection Checklist

cc: without enclosures

Maxine Natchees, Acting Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

cc: with enclosures;

Shaun Chapoose, Director
Land Use Department
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gilbert Hunt
Associate Director
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

FC - RECORD ONLY

Fluid Mineral Engineering Office
U.S. Bureau of Land Management – Vernal Office
170 South 500 East
Vernal, UT 84078

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd.
Boise, ID 83709



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 200
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit No: UT20736-00000

The Antelope Creek Waterflood Final UIC Area Permit No. UT20736-00000, effective July 12, 1994, authorizes injection for the purpose of enhanced oil recovery into multiple lenticular sand units which are distributed throughout the lower portion of the Green River Formation. On September 5, 2006, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name: Ute Tribal 29-13
EPA Well ID Number: UT20736-07417
Location: 660 ft FSL & 660 ft FWL
Sec. 29 - T5S - R3W
Duchesne County, Utah.

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20736-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20736-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the effective date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: JAN 3 2007

Signature of Stephen S. Tuber
for Stephen S. Tuber
*Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

* The person holding this title is referred to as the Director throughout the permit and Authorization

WELL-SPECIFIC REQUIREMENTS

Well Name: Ute Tribal 29-13
EPA Well ID Number: UT20736-07417

Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:

1. a successful Part I (Internal) Mechanical Integrity test (MIT);
2. pore pressure calculation of the proposed injection zone; and
3. completed Well Rework Record EPA Form No. 7520-12 and schematic diagram.

Approved Injection Zone: Injection is approved between the base of the Green River A Lime Marker, at approximately 3948 ft (KB)_{CBL}, to the top of the Basal Carbonate, at approximately 5943 ft (KB)_{CBL}.

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is **1458 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.80 \text{ psi/ft} \quad \text{SG} = 1.009 \quad \text{D} = 4016 \text{ ft (top perforation depth KB)} \\ \text{MAIP} &= \mathbf{1458 \text{ psig}} \end{aligned}$$

UIC Area Permit No. UT20736-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a step-rate test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction and Corrective Action: *No Corrective Action is required.*

Based on review of well construction and cementing records, including CBL, well construction is considered adequate to prevent fluid movement out of the injection zone and into underground source of drinking water (USDW).

Tubing and Packer: *No Corrective Action is required.*

The 2-3/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft above the top perforation.

Corrective Action for Wells in Area of Review: *No Corrective Action is required.*

The following wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 29-13 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Well: Ute Tribal No. 29-12	Location: NWSW Sec. 29 - T5S - R3W
Well: Ute Tribal No. 29-14	Location: SESW Sec. 29 - T5S - R3W
Well: Ute Tribal No. 30-16	Location: SESE Sec. 30 - T5S - R3W

Demonstration of Mechanical Integrity: A successful demonstration of Part I (Internal) Mechanical Integrity using a standard casing-tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cement bond log and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR 146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is not required at this time.

Demonstration of Financial Responsibility: The applicant has demonstrated financial responsibility in the amount of \$15,000 via a Surety Bond that has been reviewed and approved by the EPA.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation (located at 4016 ft (KB)) with a minimum 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: Set a minimum 248 ft cement plug inside of the 5-1/2" casing and on the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale, between approximately 2692 ft (KB) to 2940 ft (KB).
- PLUG NO. 3: Set a minimum 200 ft cement plug on the inside and backside (unless pre-existing backside cement precludes cement-squeezing this interval) of the 5-1/2" casing across the Green River, between approximately 1510 ft (KB) to 1710 ft (KB).
- PLUG NO. 4: Set a minimum 200 ft cement plug inside of the 5-1/2" casing and on the backside of the 5-1/2" casing across the base of the USDW, between approximately 1173 ft (KB) to 1373 ft (KB). This plug fulfills the Utah Bureau of Land Management (BLM) Plugging and Abandonment (P&A) requirement.
- PLUG NO. 5: Set a minimum 50 ft cement plug on the backside of the 5-1/2" casing, across the surface casing shoe at 319 ft (KB) (unless pre-existing backside cement precludes cement-squeezing this interval).

PLUG NO. 6: Set a minimum 50 ft cement plug inside of the 5-1/2" casing, from at least 255 ft (KB) to 305 ft (KB).

PLUG NO. 7: Set a cement plug on the backside of the 5-1/2" casing, from surface to a depth of at least 50 ft.

PLUG NO. 8: Set a cement plug inside of the 5-1/2" casing from surface to a depth of at least 50 ft.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice. The operator shall submit a written notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

The operator shall report to the Director any noncompliance that may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227.8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1.800.424.8802 or 202.267.2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**.

Other Noncompliance:

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information:

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

WELL-SPECIFIC CONSIDERATIONS

Well Name: Ute Tribal 29-13
EPA Well ID: UT20736-007417

Underground Sources of Drinking Water (USDWs): USDWs in the Antelope Creek Waterflood area generally may occur within the Uinta Formation, which extends from the surface to the top of the Green River Formation at approximately 1610 ft (KB). According to “*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*” the base of moderately saline ground water may be found at approximately 540 ft. below ground surface at this well location. Based on information reported by Petroglyph in the cement bond log (CBL) submitted, the base of a USDW was found at 1273 ft (KB) in the Ute Tribal 29-13. Based on analysis of the submitted CBL the top of casing cement in this well is at approximately 564 ft (KB).

Confining Zone: The Confining Zone at this location is approximately 202 ft of interbedded limestone and shale between the depths of 3746 ft to 3948 ft (KB) which directly overlies the Injection Zone, based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log. Additional impermeable lacustrine shale beds above the Confining Zone provide for further protection for any overlying USDW.

Injection Zone: The Injection Zone at this well location is an approximately 1995 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 3948 ft (KB) to the top of the Basal Carbonate Formation at 5943 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log and information provided by Petroglyph Energy, Inc.

Well Construction: The CBL shows three (3) sections that consist of more than 22 ft of 80% or greater bond across the confining zone, at approximately 3746 ft (KB) to 3836 ft (KB); 3850 ft (KB) to 3924 ft (KB); and 3926 ft (KB) to 3948 ft (KB).

Surface Casing: 8-5/8" casing is set at 319 ft (KB) in a 12-1/4" hole, using 200 sacks cement circulated to the surface

Longstring Casing: 5-1/2" casing is set at 6104 ft (KB) in a 7-7/8" 6143 ft (KB) total depth hole with plugged back total depth (PBSD) of 5786 ft (KB), cemented with 623 sacks cement

Top of Cement : 564 ft (KB)_{CBL}

Perforations: Top: **4016 ft** (KB) Bottom : **5555 ft** (KB)

Wells in Area of Review (AOR): Construction and cementing records, including CBL as available, for two wells in the 1/4 mile AOR that penetrated the confining zone were reviewed and found adequate to prevent fluid movement out of the injection zone and into USDWs.

Well: Ute Tribal No. 29-12

Well: Ute Tribal No. 29-14

Well: Ute Tribal No. 30-16

Casing Cement top: 2416 ft (KB)_{CBL}

Casing Cement top: 254 ft (KB)_{CBL}

Casing Cement top: 1811 ft (KB)_{calculated}



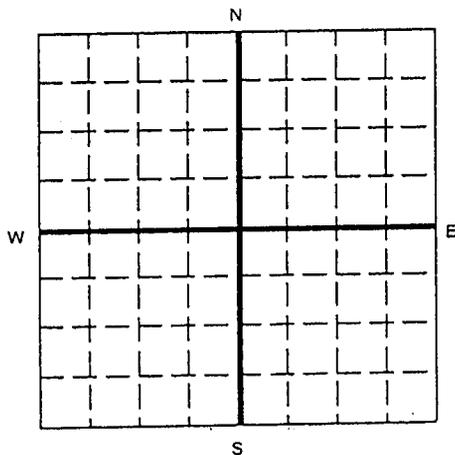
United States Environmental Protection Agency
Washington, DC 20460

WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ___ ft. frm (N/S) ___ Line of quarter section
and ___ ft. from (E/W) ___ Line of quarter section.

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- Individual
- Area

Number of Wells ___

Well Number

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed

Prior to Beginning Injection Checklist

Permit: UT20736- 07417 . Well: Ute Tribal 29-13 .

Prior to beginning injection, the following items must be completed:

- Completion Report / Well Rework Report**
- Injection Zone Pressure**
- Standard Annulus Pressure Test - MIT (Part I)**
- Radioactive Tracer Survey - MIT (Part II)
- Temperature Survey - MIT (Part II)
- Oxygen Activation Log - MIT (Part II)
- Step Rate Test CBL/CET
- Remedial Cementing
- Other Corrective Action
- Injection Zone Fluid Sample
- Aquifer Exemption Determination
- Injection Zone Temperature
- Analysis of Source Fluid (injectate)
- Other _____

Comments:

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: 1420H623518
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 Tribal
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: 1420H624650
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		8. WELL NAME and NUMBER: Ute Tribal 29-13
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY Roosevelr STATE Ut ZIP 84066		9. API NUMBER: 4301332200
PHONE NUMBER: (435) 722-5304		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FSL 660' FWL		COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 15S R3W		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 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 checked="" 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.

This sundry is serving notice that Petroglyph Operating Company, Inc. (POCI) plans to convert the Ute Tribal 29-13 to an injection well from a producing well. This work is being performed under our area UIC permit number UT20736-06601. POCI has obtained approval to perform the conversion on the Ute Tribal 29-13 from the EPA. After the conversion on the Ute Tribal 29-13 is complete, POCI will submit the necessary information to the EPA to obtain approval to begin injection operations.

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

NAME (PLEASE PRINT) <u>Steve Wall</u>	TITLE <u>Manager</u>
SIGNATURE <u><i>Steve Wall</i></u>	DATE <u>1/10/2007</u>

(This space for State use only)

**RECEIVED
JAN 11 2007**

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: 1420H623518
		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: 1420H624650
		8. WELL NAME and NUMBER: Ute Tribal 29-13
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection well</u>	9. API NUMBER: 4301332200	
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.	10. FIELD AND POOL, OR WILDCAT: Antelope Creek	PHONE NUMBER: (435) 722-5304
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY Roosevelt STATE UT ZIP 84066	10. FIELD AND POOL, OR WILDCAT: Antelope Creek	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FSL 660' FWL		COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 29 T5S R3W		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 type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/19/2007	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input checked="" 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.

This well has been converted to a water injection well to support the ongoing secondary waterflood active in Antelope Creek. The rods and tubing have been pulled from this well. The injection string consists of 2 3/8", 4.6#, J-55 EUE tubing. The packer is installed at 3958' +/- KB. Packer fluid has been circulated in the casing and a successful MIT conducted and submitted to the EPA. This well was converted with no down hole changes.

This well has been converted to a water injection well to support the ongoing secondary waterflood active in Antelope Creek. The rods and tubing have been pulled from this well. The injection string consists of 2 3/8", 4.6#, J-55 EUE tubing. The packer is installed at 3958' +/- KB. Packer fluid has been circulated in the casing and a successful MIT conducted and submitted to the EPA. This well was converted with no down hole changes.

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

NAME (PLEASE PRINT) <u>Steve Wall</u>	TITLE <u>Manager</u>
SIGNATURE <u><i>Steve Wall</i></u>	DATE <u>1/23/2007</u>

(This space for State use only)

RECEIVED
JAN 24 2007



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8**

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

FEB 22 2007

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

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

FOR RECORD ONLY

43-0131-32200
5S 3W 29

RE: Authorization to Inject
UIC Permit No. UT20736-00000
Well ID: UT20736-07417
Ute Tribal No. 29-13
Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal No. 29-13 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal No. 29-13 injection well required well owner and operator Petroglyph Operating Company, Inc. to submit the following information to the Director:

- I. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
- II. Pore pressure calculation of the proposed injection zone, and
- III. Completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal No. 29-13 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

RECEIVED

FEB 26 2007

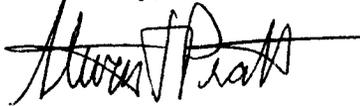
DIV. OF OIL, GAS & MINING

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202-1129

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal No. 29-13 shall not exceed 1458 psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of Authorization for Additional Well UT20736-07417 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Linda Bowling of my staff at (303) 312-6254. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, please contact Nathan Wiser of the UIC Technical Enforcement Program by calling (303) 312-6211.

Sincerely,



Steven J. Pratt
Director,
Ground Water Program

Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Shaun Chapoose, Director
Land Use Department
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE
BLM - Vernal District
170 South 500 East
Vernal, UT 84078



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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
1420H623518

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 Indian Tribe

7. UNIT or CA AGREEMENT NAME:
1420H624650

1. TYPE OF WELL OIL WELL GAS WELL OTHER Water Injection Well

8. WELL NAME and NUMBER:
Ute Tribal 29-13

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

9. API NUMBER:
4301332200

3. ADDRESS OF OPERATOR:
P. O. Box 607 CITY **Roosevelt** STATE **UT** ZIP **84078**

PHONE NUMBER:
(435) 722-5304

10. FIELD AND POOL, OR WILDCAT:
Antelope Creek

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **660' FSL 660' FWL**

COUNTY: **Duchesne**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSW 29 T5S R3W**

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 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
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 2/26/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>first date of injection</u>
	<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.

First date of Injection was February 26, 2007

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

NAME (PLEASE PRINT) Steve Wall

TITLE Manager

SIGNATURE *Steve Wall*

DATE 2/27/2007

(This space for State use only)

**RECEIVED
FEB 28 2007**