

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

September 14, 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 #29-02
NW/NE, 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

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. Lease designation and serial number BIA-14-20-H62-3518	
b. TYPE OF WELL Oil <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Well <input type="checkbox"/> Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. If Indian, Allottee or Tribe name UTE TRIBAL LAND	
2. Name of Operator PETROGLYPH ENERGY, INC.		7. Unit Agreement Name 14-20-H62-4650	
3. Address and Telephone Number P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531		8. Farm or lease name, well no. UTE TRIBAL	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 622' FNL & 2075' FEL NW/NE At proposed prod. Zone		9. API Well No. UT 29-02	
14. Distance in miles and direction from nearest town or post office 21.4 MILES SOUTHWEST OF MYTON, UTAH		10. Field and pool, or wildcat ANTELOPE CREEK	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) 622'		11. Sec., T., R., M., or BLK. and survey or area SEC. 29, T5S, R3W	
16. No. of acres in lease 640		12. County or parish DUCHESNE	
17. No. of acres assigned to this well 40		13. State UTAH	
18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.		19. Proposed depth 6184'	
20. Rotary or cable tools ROTARY		21. Elevations (show whether DF, RT, GR, etc.) 6496 FEET GRADED GROUND	
22. Approx. date work will start OCTOBER 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#	6184'	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 [Signature] TITLE **Agent** DATE 9-14-2000

(This space for Federal or State office use)

PERMIT NO. 435013-32199 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.

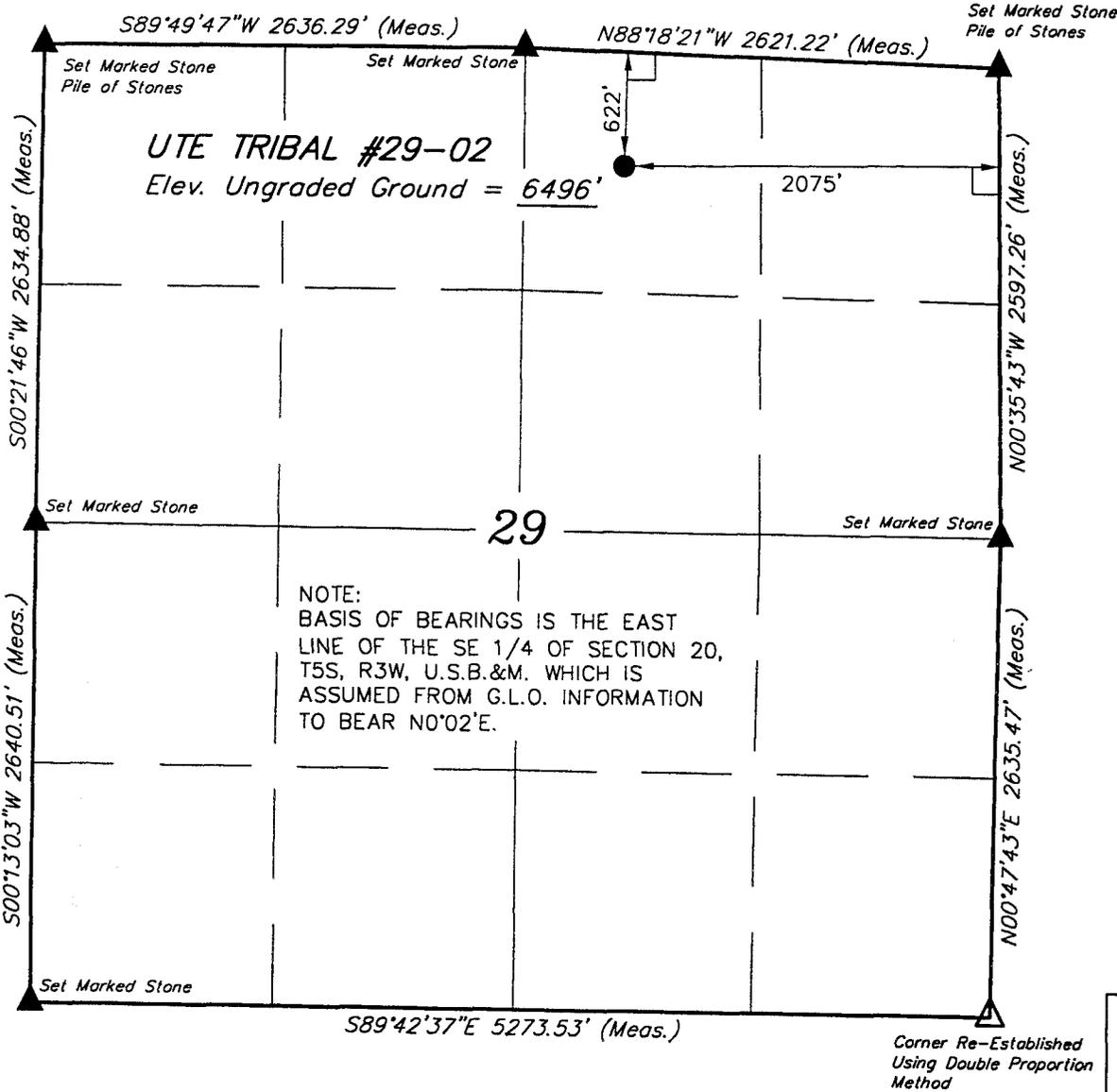
CONDITIONS OF APPROVAL, IF ANY:
 APPROVED BY [Signature] TITLE **BRADLEY G. HILL** DATE 10/4/00
REGULATION SPECIALIST III

Final approval of this action is necessary

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

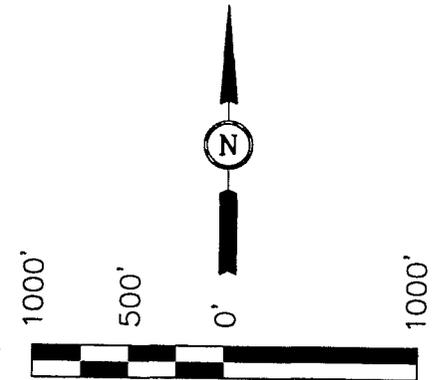
PETROGLYPH ENERGY, INC.

Well location, UTE TRIBAL #29-02, located as shown in the NW 1/4 NE 1/4 of Section 29, T5S, R3W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT A BRASS CAP SET 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.



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.

Robert J. [Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.
- = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)
- LATITUDE = $40^{\circ}01'22''$
- LONGITUDE = $110^{\circ}14'39''$

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-25-00	DATE DRAWN: 8-18-00
PARTY D.A. J.A. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH ENERGY, INC.	

EIGHT POINT PLAN

UTE TRIBAL #29-02
NW/NE, SEC. 29, T5S,R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

<u>FORMATIONS</u>	<u>DEPTH</u>	<u>SUBSEA</u>
Trona	2779	
Mahogany Shale	2933	
"B" Marker	4003	
"X" Marker	4486	
Douglas Creek	4626	
"B" Limestone	5005	
B/Castle Peak Limestone	5559	
Basal Carbonate Limestone	5984	
Wasatch	6271	
Total Depth	6184	

Anticipated BHP 2700 psi

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4626	
Oil/Gas	B/Castle Peak	5559	
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' - 6184'	6184'	5 ½	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #29-02
NW/NE, SEC. 29, T5S,R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'
250' - 4000'
4000' - TD
TD

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
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.

EIGHT POINT PLAN

UTE TRIBAL #29-02
NW/NE, 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.

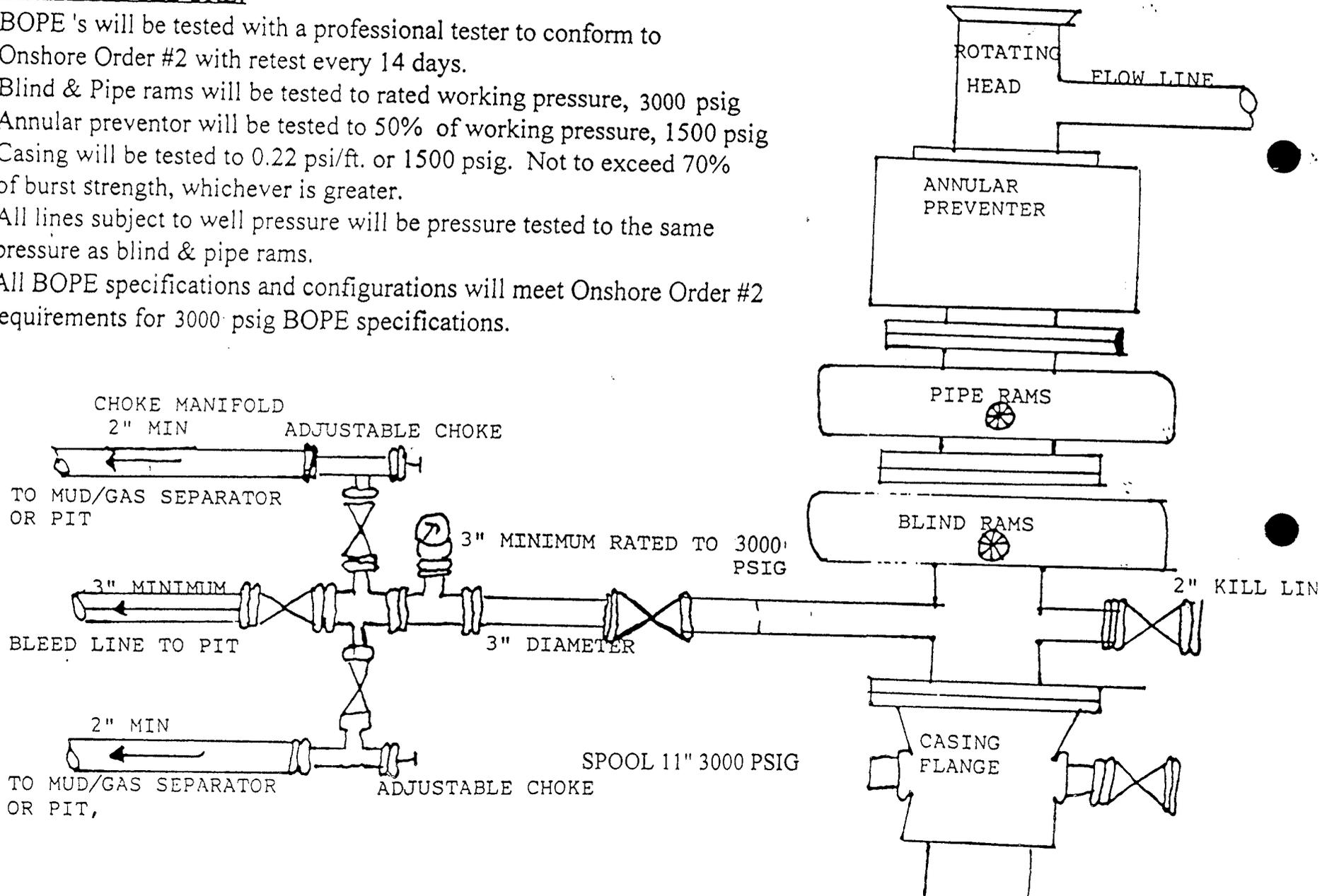
(Attachment: BOP Schematic Diagram)

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 # 29-02
Lease Number: BIA 14-20-H62-3518
Location: 622' FNL & 2075' FEL, NW/NE, 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.

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 21.4 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 50 feet 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 – 3*
 - D. Disposal wells - None
 - E. Drilling wells - None
 - F. Producing wells - 16*
 - G. Shut in wells – 1*
 - 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.

The production facilities will be placed on the UT 20-16 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 west side of the location. The flare pit will be located downwind of the prevailing wind direction on the west 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 east side of the location.

Access to the well pad will be from the south.

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 Corner #6 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.

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 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.

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.

9-14-2000
Date


Agent

PETROGLYPH ENERGY, INC.

UTE TRIBAL #29-02
LOCATED IN DUCHESNE COUNTY, UTAH
SECTION 29, T5S, R3W, U.S.B.&M.

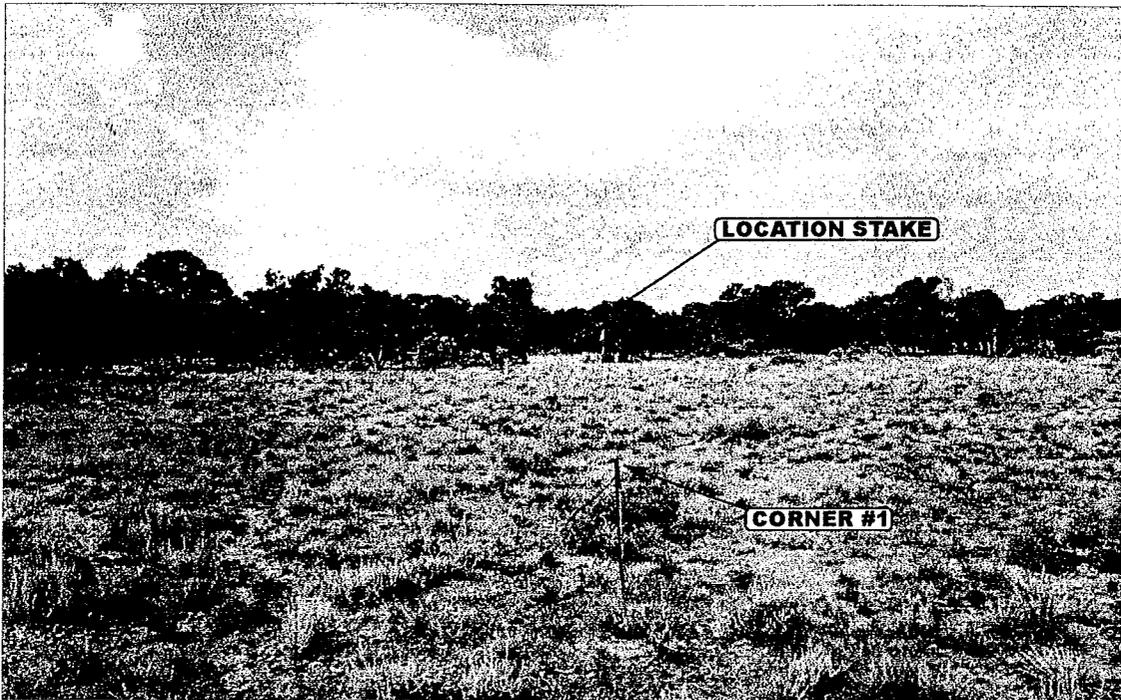


PHOTO: VIEW FROM CORNER #1 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

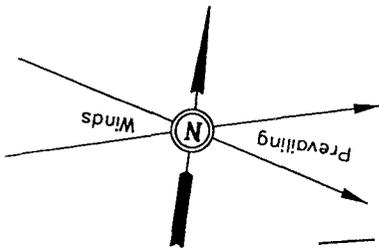
UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	8	24	00	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.A.	DRAWN BY: J.L.G.		REVISED: 00-00-00	

PETROGLYPH ENERGY CO., INC.

LOCATION LAYOUT FOR

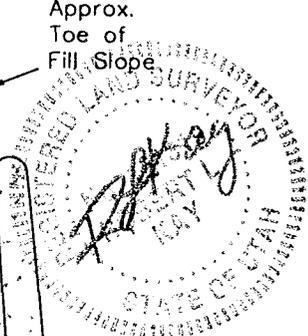
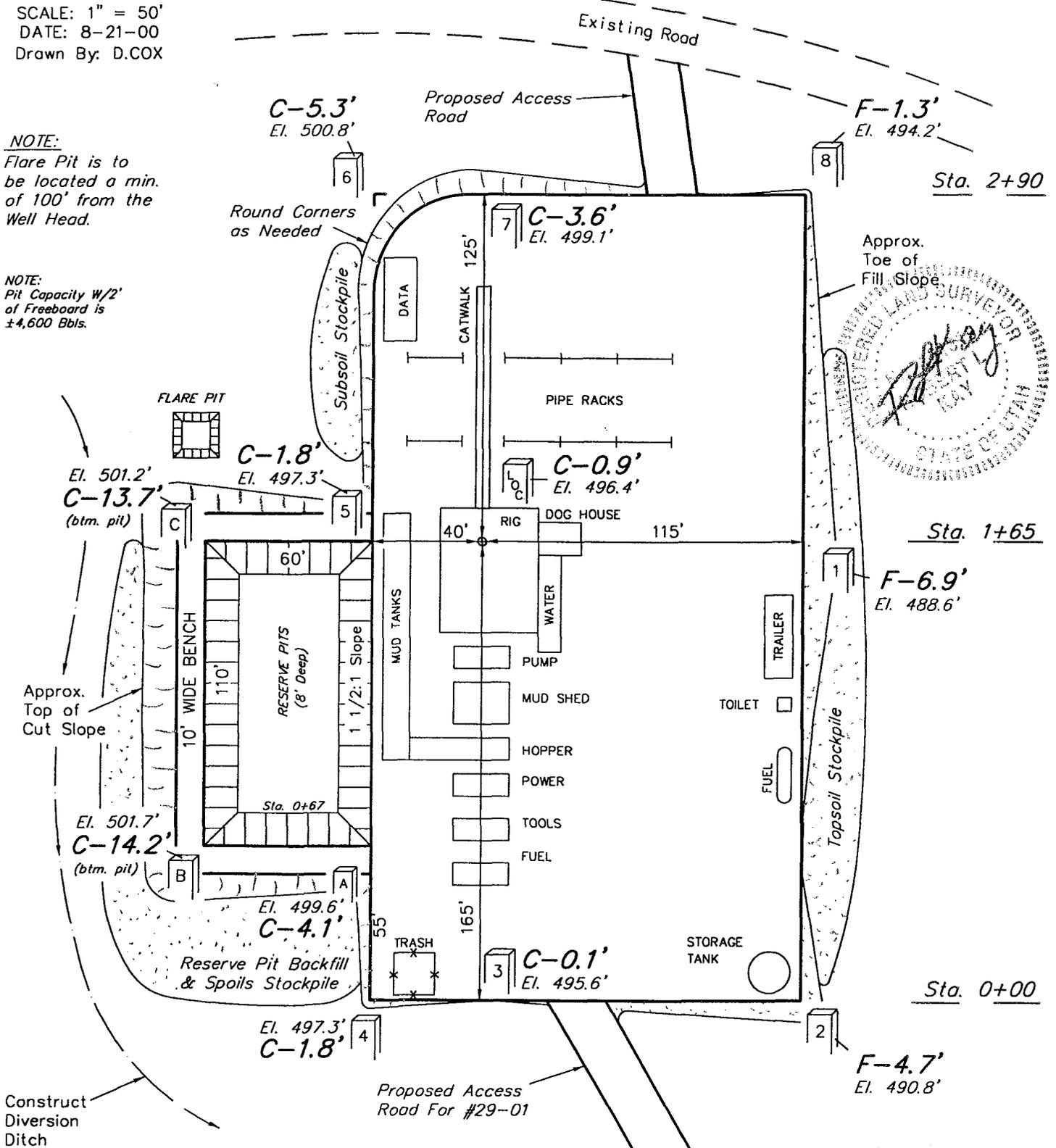
UTE TRIBAL #29-02
SECTION 29, T5S, R3W, U.S.B.&M.
622' FNL 2075' FEL



SCALE: 1" = 50'
DATE: 8-21-00
Drawn By: D.COX

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.



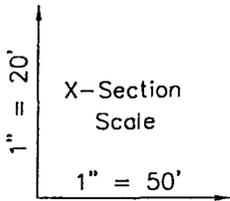
Elev. Ungraded Ground at Location Stake = **6496.4'**
Elev. Graded Ground at Location Stake = **6495.5'**

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

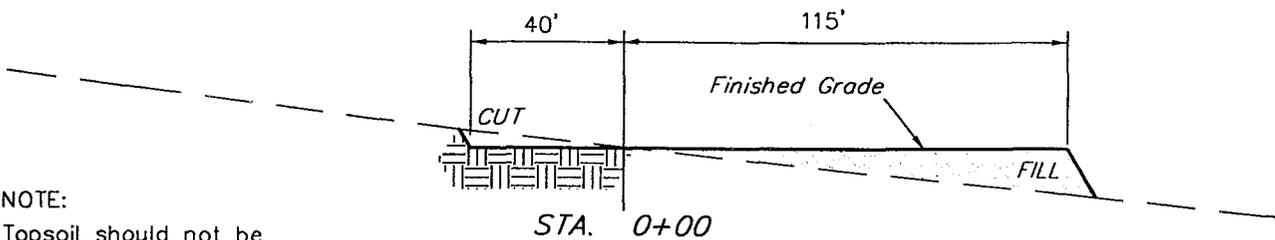
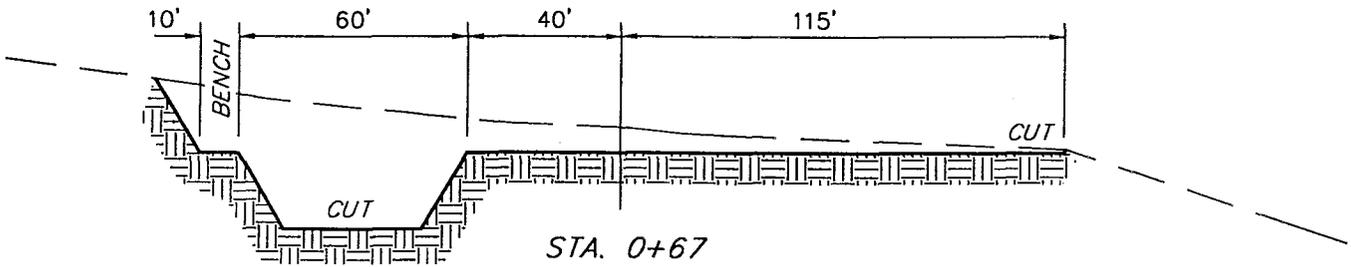
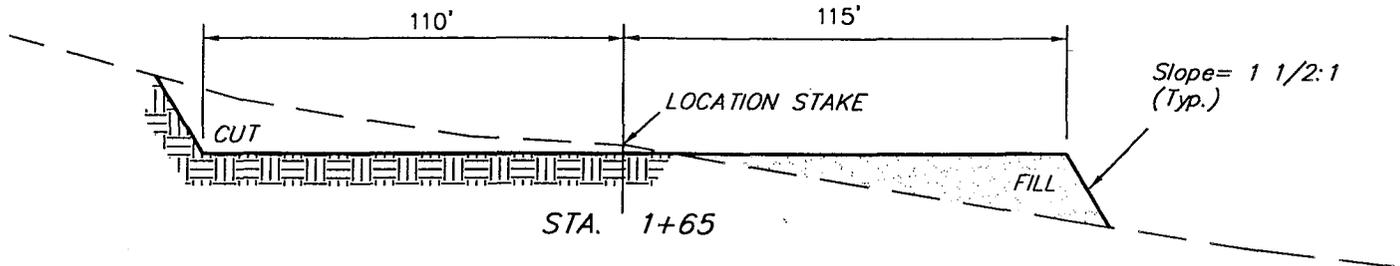
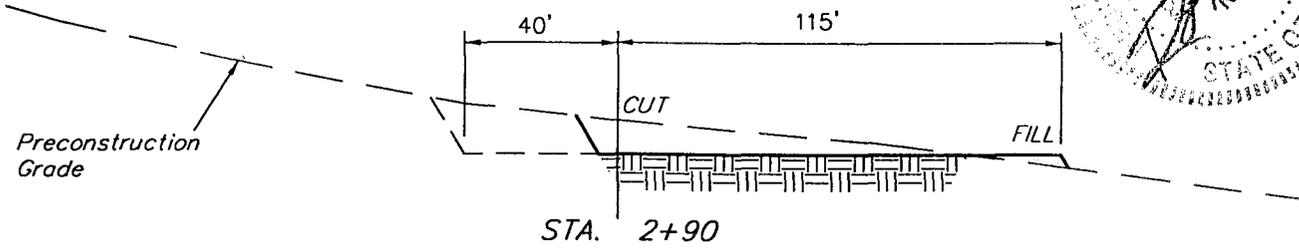
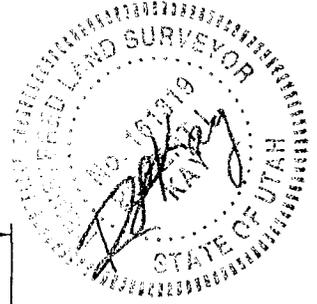
PETROGLYPH ENERGY CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #29-02
SECTION 29, T5S, R3W, U.S.B.&M.
622' FNL 2075' FEL



DATE: 8-21-00
Drawn By: D.COX



NOTE:

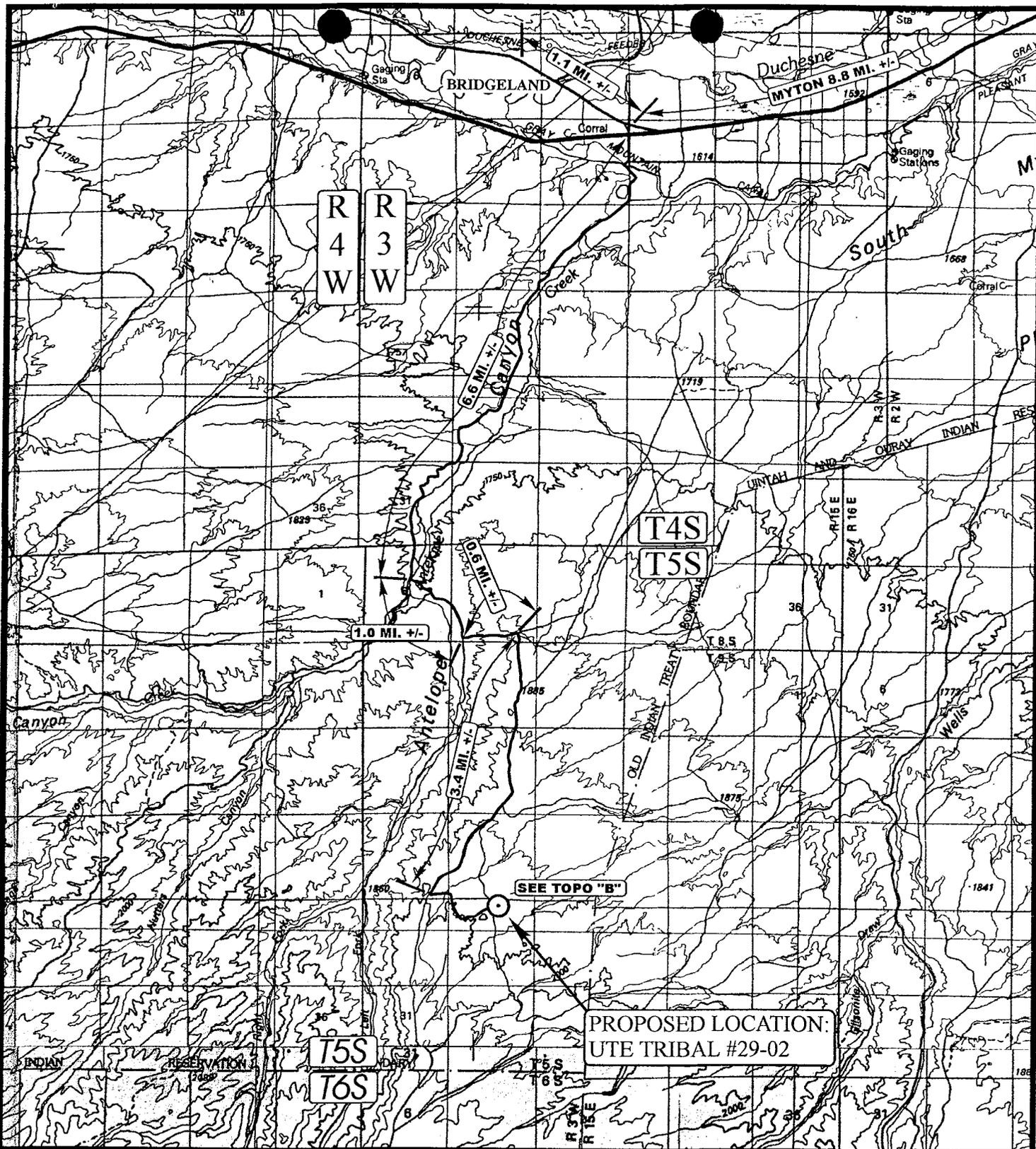
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	2,000 Cu. Yds.
Remaining Location	=	3,550 Cu. Yds.
TOTAL CUT	=	5,550 CU.YDS.
FILL	=	2,710 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	2,700 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	2,700 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



LEGEND:

⊙ PROPOSED LOCATION



PETROGLYPH ENERGY, INC.

UTE TRIBAL #29-02
SECTION 29, T5S, R3W, U.S.B.&M.
622' FNL 2075' FEL



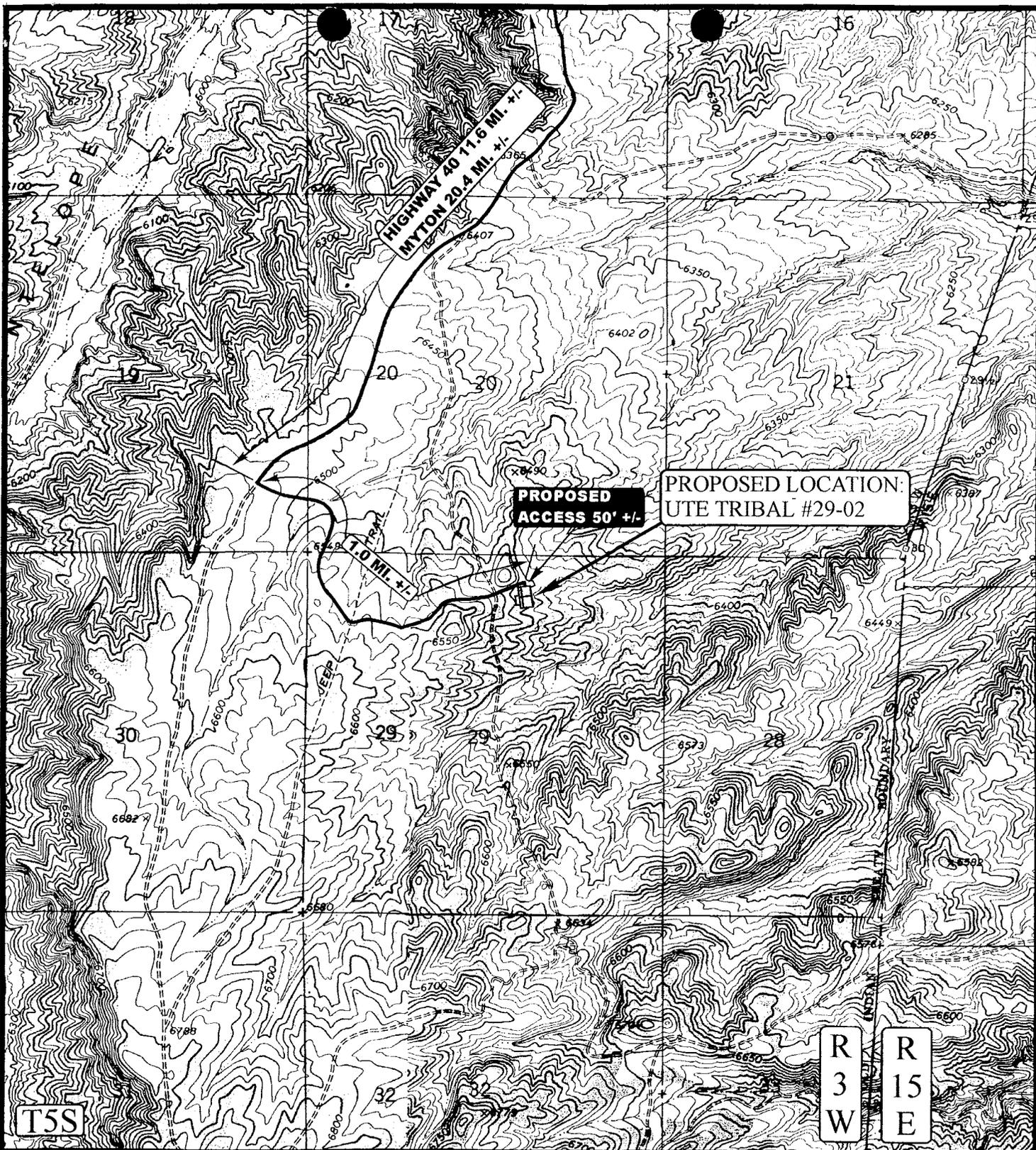
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

8	24	00
MONTH	DAY	YEAR

SCALE: 1: 100,000 DRAWN BY: J.L.G. REVISED: 00-00-00





LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD

PETROGLYPH ENERGY, INC.

UTE TRIBAL #29-02
 SECTION 29, T5S, R3W, U.S.B.&M.
 622' FNL 2075' FEL



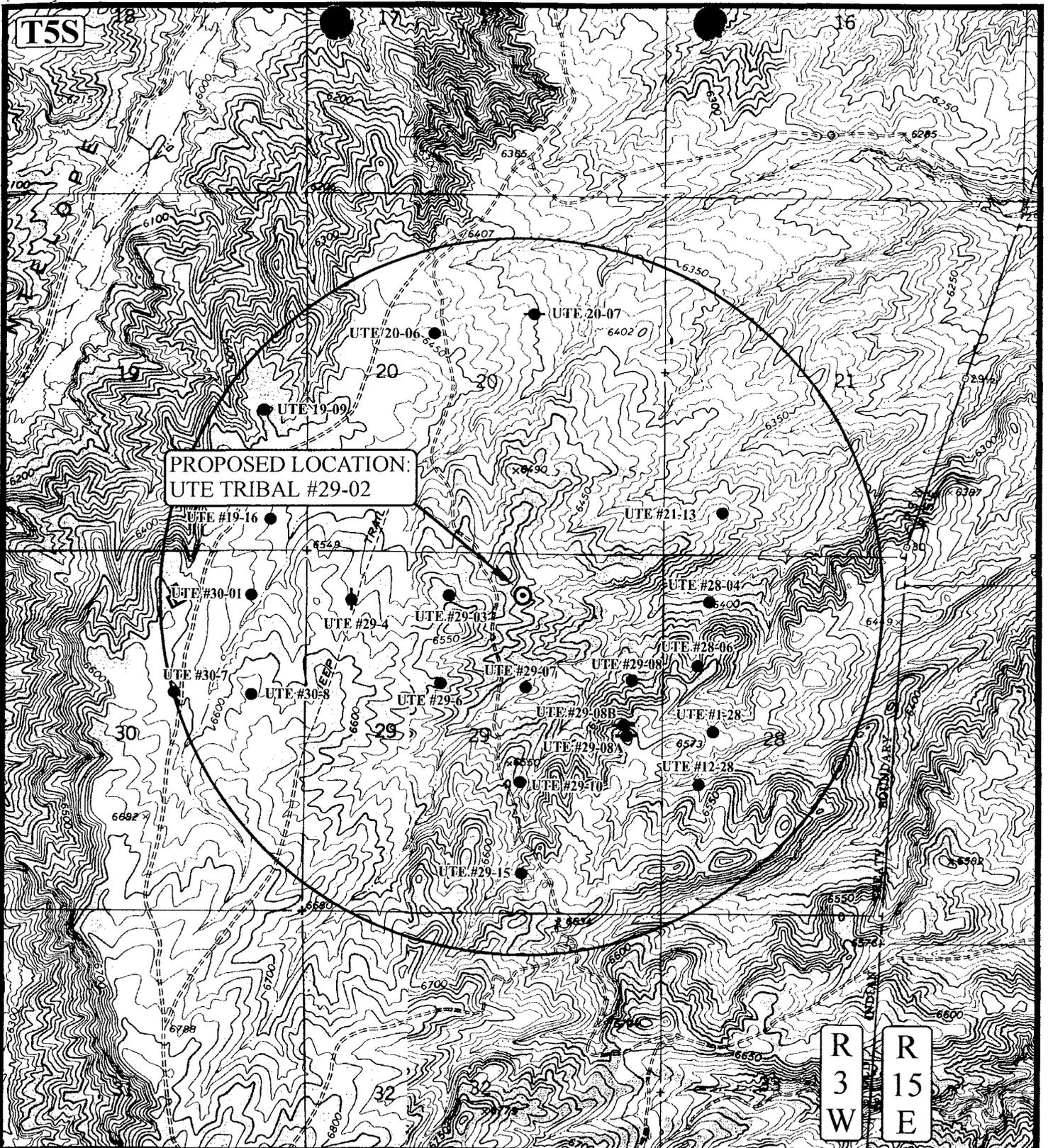
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC 8 24 00
MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





PROPOSED LOCATION:
UTE TRIBAL #29-02

LEGEND:

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

PETROGLYPH ENERGY, INC.

UTE TRIBAL #29-02
SECTION 29, T5S, R3W, U.S.B.&M.
622' FNL 2075' FEL

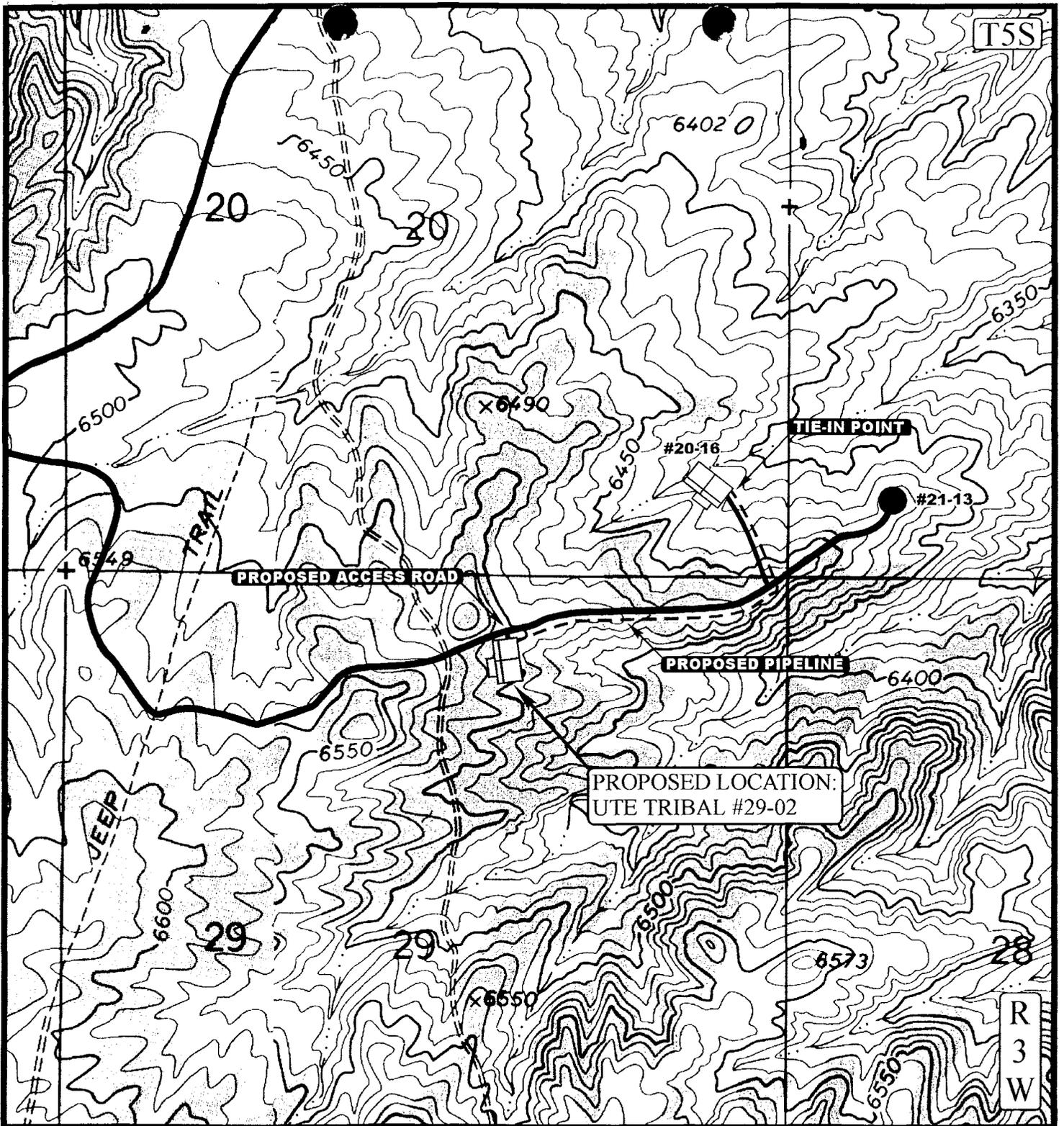


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC			8	24	00
MAP			MONTH	DAY	YEAR
SCALE: 1" = 2000'		DRAWN BY: J.L.G.		REVISED: 00-00-00	





APPROXIMATE TOTAL PIPELINE DISTANCE = 2720' +/-

LEGEND:

- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- PROPOSED ACCESS

PETROGLYPH ENERGY, INC.

UTE TRIBAL #29-02
SECTION 29, T5S, R3W, U.S.B.&M.
622' FNL 2075' FEL



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

TOPOGRAPHIC MAP

8	24	00
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00

D
TOPO

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/02/2000

API NO. ASSIGNED: 43-013-32199

WELL NAME: UTE TRIBAL 29-02
 OPERATOR: PETROGLYPH ENERGY INC (N1425)
 CONTACT: ED TROTTER, AGENT

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:
 NWNE 29 050S 030W
 SURFACE: 0622 FNL 2075 FEL
 BOTTOM: 0622 FNL 2075 FEL
 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:

Plat
 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: _____)

N/A Fee Surf Agreement (Y/N)

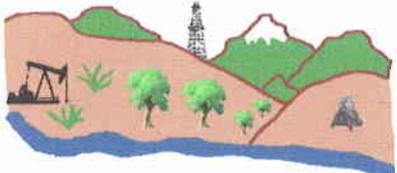
LOCATION AND SITING:

____ R649-2-3. Unit Antelope Creek
 ____ R649-3-2. General
 Siting: _____
 ____ R649-3-3. Exception
 Drilling Unit
 Board Cause No: 214-2 *Unit & Enh. Fee.
 Eff Date: 6-9-2000
 Siting: _____

____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: (1) FEDERAL APPROVAL



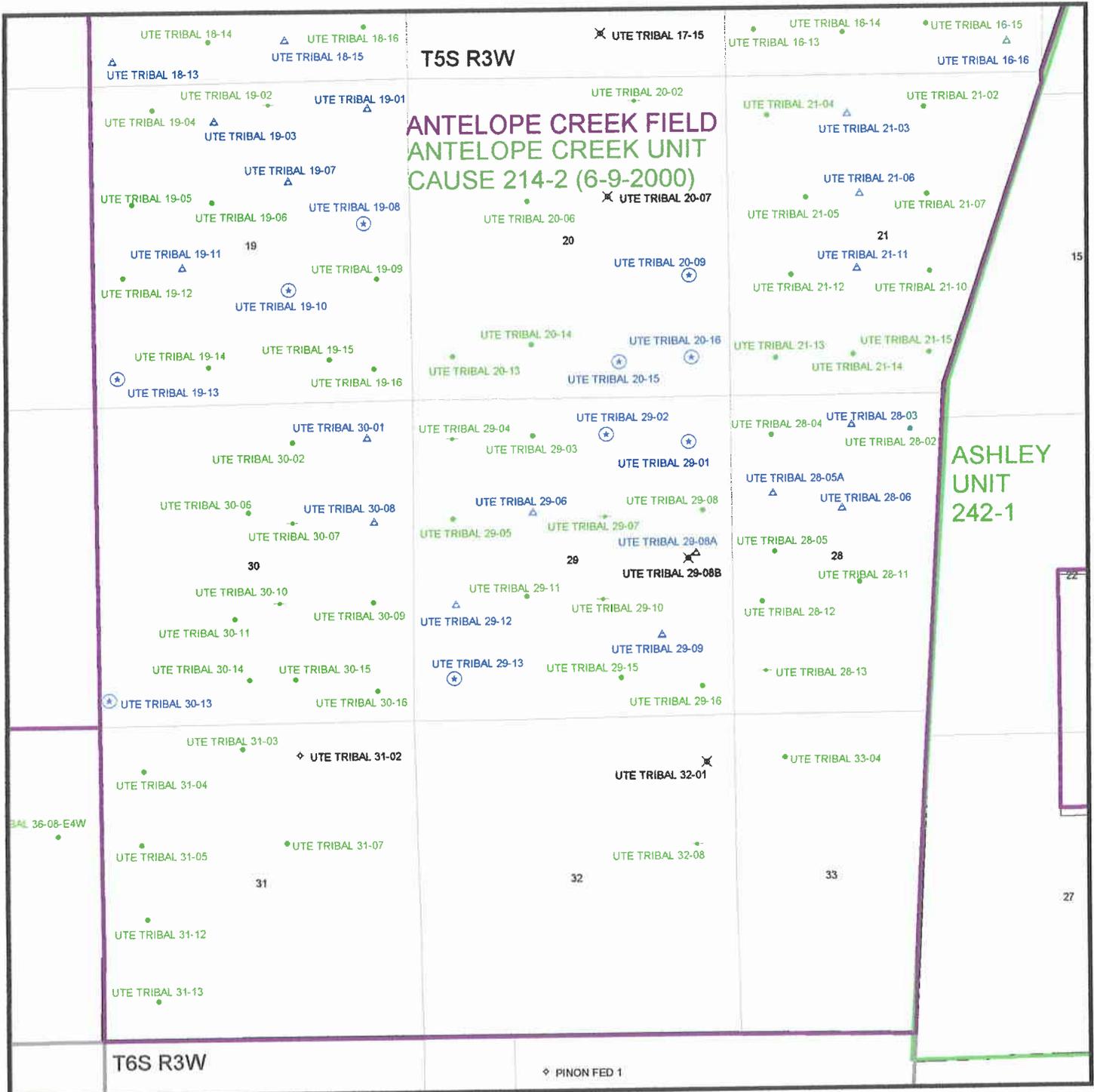
Utah Oil Gas and Mining

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

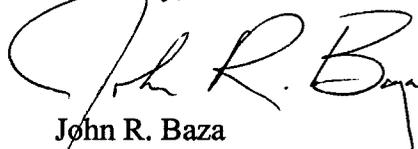
Re: Ute Tribal 29-02 Well, 622' FNL, 2075' FEL, NW NE, Sec. 29, T. 5 South, R. 3 West,
Duchesne County, Utah

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 43-013-32199.

Sincerely,



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 29-02
API Number: 43-013-32199
Lease: 14-20-H62-3518

Location: NW NE **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 Gas Single Multiple
Well Well Other Zone 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 29-02

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
622' FNL & 2075' FEL NW/NE RECEIVED
At proposed prod. Zone
SEP 29 2000

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.
622'
(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
6184'

20. Rotary or cable tools
ROTARY

21. Elevations (show whether DF, RT, GR, etc.)
6496 FEET GRADED GROUND

22. Approx. date work will start
OCTOBER 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#	6184'	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 [Signature] TITLE **Agent** DATE 9-14-2000

(This space for Federal or State office use)

NOTICE OF APPROVAL **CONDITIONS OF APPROVAL ATTACHED**

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 [Signature] TITLE **Assistant Field Manager Mineral Resources** DATE 11/7/00

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 29-02

API Number: 43-013-32199

Lease Number: 14-20-H62-3518

Location: NWNE 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.

Ute Tribe
Energy & Minerals
Department
2000

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 reseeded 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.

Ute Tribe
Office of the
Tribal Engineer
1000 Main Street
Monte Vista, CO 81401

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
4301332198	Ute Tribal 29-01		nene	29	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	12977	11/6/2000		11-16-00		
Comments: This well will be an injection well within the Antelope Creek field 12-11-00							

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301332199	Ute Tribal 29-02		nwne	29	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	12139	12/5/2000		12-05-00		
Comments: This well will be in a commingled battery at the Ute Tribal 29-06 Entity # 12139 12-11-00							

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: This well will be an injection well within the Antelope Creek Field							

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 Safford

Name (Please Print)

Signature

Operations Coordinator

Title

12/4/2000

Date

RECEIVED

DEC 07 2000

DIVISION OF
OIL, GAS AND MINING



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
DIVISION OF
OIL AND GAS

CONFIDENTIAL

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

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

SUBMIT IN TRIPLICATE- Other Instructions on reverse side		5. Lease Serial No. 1420H623518
1. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
2. Name of Operator PETROGLYPH OPERATING COMPANY, CONTACT: MICHEAL SAFFORD COORDINATOR EMAIL: mikes@petroglyph.net		7. If Unit or CA Agreement, Name and No. 1420H624650
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) TEL: 435.722.2531 EXT: FAX: 435.722.9145	8. Lease Name and Well No. UTE TRIBAL 29-02
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T05S R03W NWNE 622FNL 2075FEL		9. API Well No. 4301332199
		10. Field and Pool, or Exploratory ANTELOPE CREEK
		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 checked="" 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 type="checkbox"/>
	<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.)

The above referenced well was spud on 12/6/00, a 12-1/4" surface hole to 377'

The surface casing was 8-5/8" 24# K55 and set at 361'. Cemented with 200 sxs prem plus, 2% CaCl2, .125#/sxs poly flake.

Rig TD @ 6194'

Production casing was 5-1/2" 15.5# K55 and set 6187' GL with 235 sxs HiFill and 460 sxs Pre AG-300

RECEIVED

MAR 06 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 #2785 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE

CONFIDENTIAL

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

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

SUBMIT IN TRIPLICATE- Other Instructions on reverse side

1. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. 1420H623518
2. Name of Operator PETROGLYPH OPERATING COMPANY, CONTACT: MICHEAL SAFFORD COORDINATOR EMAIL: mikes@petroglyph.net		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) TEL: 435.722.2531 EXT: FAX: 435.722.9145	7. If Unit or CA Agreement, Name and No. 1420H624650
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T05S R03W NWNE 622FNL 2075FEL		8. Lease Name and Well No. UTE TRIBAL 29-02
		9. API Well No. 4301332199
		10. Field and Pool, or Exploratory ANTELOPE CREEK
		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 recomplate 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 2/1/2001

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, agency, or officer of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

ELECTRONIC SUBMISSION #2799 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE

RECEIVED
MAR 06 2001
DIVISION OF
OIL, GAS AND MINING
2/28/2001

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
				B MARKER	4058
				X MARKER	4542
				Y MARKER	4575
				DOUGLAS CREEK	4684
				B LIMESTONE	5065
				BASE CASTLE PEAK	5628
				BASAL CARBONATE	6042

32. Additional remarks (include plugging procedure):

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 wilfully 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 #2795 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE

RECEIVED

MAR 06 2001

DIVISION OF OIL, GAS AND MINING 3/2001

CONFIDENTIAL

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 INDIAN TRIBE

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

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

8. Lease Name and Well No.
UTE TRIBAL 29-02

3. Address **P.O. BOX 607** 3a. Phone No. (include area code)
ROOSEVELT, UT 84066 TEL: **435.722.2531 EXT:**

9. API Well No.
4301332199

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface **NWNE 622FNL 2075FEL**
At top prod. interval reported below **NWNE 622FNL 2075FEL**
At total depth **NWNE 622FNL 2075FEL**

10. Field and Pool, or Exploratory
ANTELOPE CREEK

11. Sec., T., R., M., on Block and Survey or Area
Sec 29 T05S R03W UBM

12. County or Parish **Duchesne** 13. State **UT**

14. Date Spudded **12/6/00** 15. Date T.D. Reached **12/12/00** 16. Date Completed **1/12/01**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6496 GL

18. Total Depth: MD **6194** TVD _____ 19. Plug Back T.D.: MD **6118** TVD _____ 20. Depth Bridge Plug Set: MD _____ TVD _____

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **SD/DSN-1-5-01 HRI-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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	8.625 K-55	24		361		200			
7.875	5.5 K-55	15.5		6187		695			

24. Tubing Record

Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)
2.375	5155							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	4511	6056				
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3651 To 3672	CEMENT SQUEEZE WITH 75 SXS CLASS G
4526 To 4526	FRAC WITH 30,200 20/40 AND 16/30 SAND, ISIP 2869
4682 To 4672	FRAC WITH 21,000 20/40 AND 16/30 SAND, ISIP 2859
5086 To 5095	FRAC WITH 21,000 20/40 AND 16/30 SAND, ISIP 2862
6052 To 6056	TREAT WITH 10,021 GALLONS HCL 28%, ISIP 2120

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
2/1/01	2/8/01	24	→	13	15	10			GAS PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	0	60	→					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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #2795 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE

RECEIVED

MAR 06 2001



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

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

Ref: 8P-W-GW

JUN 29 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

RECEIVED
JUL 10 2007
DIV. OF OIL, GAS & MINING

43-013-32199
5S 3W 29

Re: Additional Well to Antelope Creek Area Permit
UIC Permit No. UT20736-00000
Well ID: UT20736-07121
Ute Tribal No. 29-02
Duchesne County, Utah

Dear Mr. Wall:

The Petroglyph Operating Company, Inc. (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No. 29-02 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 40 CFR §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. 29-02 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

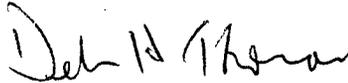
Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

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**.

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No. 29-02 was determined to be **1325 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 (800)-227-8917 (Ext. 312-6254). 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 Conversion of An Additional Well
EPA Form No. 7520-12 (Well Rework Record)

cc w/enclosures:

Curtis Cesspooch, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Irene Cuch, Vice-Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Steven Cesspooch, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Phillip Chimbraus, Councilman Uintah &
Ouray Business Committee
Ute Indian Tribe

Francis Poowegup, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency

Mr. Kenneth Smith
Executive Vice President and Chief
Operating Officer
Petroglyph Energy, Inc.

Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8**

1595 Wynkoop Street
DENVER, CO 80202-1129
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 January 27, 2006, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name: **Ute Tribal 29-02**
EPA Well ID Number: **UT20736-07121**
Location: NW NE
622 ft FNL & 2075 ft FEL
Sec. 29 - T5S - R3W
Duchesne County, Utah

RECEIVED
JUL 10 2007
DIV. OF OIL, GAS & MINING

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: JUN 29 2007

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 29-02
EPA Well ID Number: UT20736-07121

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 3972 ft (KB)_{CBL}, to the top of the Basal Carbonate, at approximately 5981 ft (KB)_{CBL}.

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is **1325 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.80 \text{ psi/ft} \quad \text{SG} = 1.009 \quad \text{D} = 3651 \text{ ft (top perforation depth KB)} \\ \text{MAIP} &= \mathbf{1325 \text{ psig}} \end{aligned}$$

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 USDWs.

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. 29-02 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Well: Ute Tribal No. 20-15	Location: SW SE	Sec. 20 - T5S - R3W
Well: Ute Tribal No. 29-01	Location: NE NE	Sec. 29 - T5S - R3W
Well: Ute Tribal No. 29-03	Location: NE NW	Sec. 29 - T5S - R3W
Well: Ute Tribal No. 29-07	Location: SW NE	Sec. 29 - 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 3651 ft (KB)) with a minimum 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: 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 Trona Zone and the Mahogany Shale, between approximately 2747 ft (KB) to 2947 ft (KB).
- PLUG NO. 3: 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 top of the Green River, between approximately 1533 ft (KB) to 1733 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 1179 ft (KB) to 1379 ft (KB).
- 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 362 ft (KB) (unless pre-existing backside cement precludes cement-squeezing this interval).
- PLUG NO. 6: Set a cement plug inside of the 5-1/2" casing, from at least 337 ft (KB) to 387 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 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 which 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 29-02**

EPA Well ID: **UT20736-07121**

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 1633 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 390 ft below ground surface at this well location. Based on analysis of the submitted CBL the top of casing cement in this well is at approximately 550 ft (KB).

Confining Zone: The Confining Zone at this location is approximately 202 ft of interbedded limestone and shale between the depths of 3770 ft to 3972 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 2009 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 3972 ft (KB) to the top of the Basal Carbonate Formation at 5981 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log.

Well Construction: The CBL shows more than 194 ft of 80% or greater bond across the confining zone, at approximately 3770 ft (KB) to 3964 ft (KB).

Surface Casing: 8-5/8" casing is set at 362 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 6188 ft (KB) in a 7-7/8" 6194 ft (KB) total depth hole with plugged back total depth (PBSD) of 5932 ft (KB), cemented with 695 sacks cement

Top of Cement : 550 ft (KB)_{CBL}

Perforations: Top: **3651 ft**(KB) Bottom : **5095 ft**(KB)

Wells in Area of Review (AOR): Construction and cementing records, including cement bond logs (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. 20-15	Casing Cement top: abandoned location
Well: Ute Tribal No. 29-01	Casing Cement top: 1694 ft (KB) _{CBL}
Well: Ute Tribal No. 29-03	Casing Cement top: 2300 ft (KB) _{CBL}
Well: Ute Tribal No. 29-07	Casing Cement top: 260 ft (KB) _{CBL}



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 Indian Tribe
			7. UNIT or CA AGREEMENT NAME: 1420H62450
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>water injection well</u>			8. WELL NAME and NUMBER: Ute Tribal 29-02
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.			9. API NUMBER: 4301332199
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY Roosevelt STATE Ut ZIP 84066		PHONE NUMBER: (435) 722-5304	10. FIELD AND POOL, OR WILDCAT: Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 622' FNL 2075' FEL			COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 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 checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/29/2007</u> <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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
	<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, Co., Inc. (POCI) plans to convert the Ute Tribal 29-02 to an injection well from a producing well. This work is being performed under our area UIC permit #UT20736-00000. POCI has obtained approval to perform the conversion on the Ute Tribal 29-02 from the EPA. After the conversion is complete, POCI will submit the necessary information to the EPA to obtain the 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>6/29/2007</u>

(This space for State use only)

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 JUL 10 2007
 DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL			5. LEASE DESIGNATION AND SERIAL NUMBER:	
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>water injection well</u>			1420H623518	
2. NAME OF OPERATOR:			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Petroglyph Operating Company, Inc.			Ute Indian Tribe	
3. ADDRESS OF OPERATOR:			7. UNIT or CA AGREEMENT NAME:	
P. O. Box 607 CITY Roosevelt STATE Ut ZIP 84066			1420H62450	
4. LOCATION OF WELL			8. WELL NAME and NUMBER:	
FOOTAGES AT SURFACE: 622' FNL 2075' FEL			Ute Tribal 29-02	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 29 T5S R3W			9. API NUMBER:	
			4301332199	
			10. FIELD AND POOL, OR WILDCAT:	
			Antelope Creek	
			COUNTY: Duchesne	
			STATE: UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>7/2/2007</u>	<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
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
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	<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 in Antelope Creek. This well has been converted from a TA well to and injection well. Set RPB @4629', circulate clean, run CBL 4580' to 45' - Set CIBP @ 6,000' (above F3 zone), dump 2 sks cement on CIBP, perf C6 zone 4916'-18' and 4828'-37'The rods and tubing have been pulled from this well. The injection string consists of 2 3/8", 4.6# EUE tubing. The packer is installed at 4612' +/- KB. Packer fluid

**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>6/29/2007</u>

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DIV. OF OIL, GAS & MINING**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

JUL 23 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

43,013,32199

RE: Authorization to Inject
UIC Permit No. UT20736-00000
Well ID: UT20736-07121
Ute Tribal No. 29-02
Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal No. 29-02 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. 29-02 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. 29-02 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.

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AUG 16 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. 29-02 shall not exceed 1325 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 UT20736-07121 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,



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

cc:

Curtis Cesspooch, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Irene Cuch, Vice-Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Steven Cesspooch, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe

Phillip Chimbraus, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Francis Poowegup, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency

Mr. Kenneth Smith
Executive Vice President and Chief
Operating Officer
Petroglyph Energy, Inc.

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 Indian Tribe
		7. UNIT or CA AGREEMENT NAME: 1420H62450
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Injection Well</u>	8. WELL NAME and NUMBER: Ute Tribal 29-02	
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.		9. API NUMBER: 4301332199
3. ADDRESS OF OPERATOR: P. O. Box 607 CITY <u>Roosevelt</u> STATE <u>Ut</u> ZIP <u>84078</u>	PHONE NUMBER: (435) 722-5304	10. FIELD AND POOL, OR WILDCAT: Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 622' FNL, 2075' FNL^E QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 29 T5S R3W		COUNTY: Duchesne STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/26/2007	<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 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.
FIRST DATE OF INJECTION 7/26/07

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

NAME (PLEASE PRINT) <u>Patti Cox</u>	TITLE <u>District Office Manager</u>
SIGNATURE <u><i>Patti Cox</i></u>	DATE <u>8/27/2007</u>

(This space for State use only)

**RECEIVED
AUG 29 2007**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

MAR 08 2012

RECEIVED

MAR 12 2012

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-1592
RETURN RECEIPT REQUESTED

DIV. OF OIL, GAS & MINING

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

5S 3W 29

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 29-02 and 18-13 Wells
EPA ID# UT20736-07121 and UT20736-04392
API # 43-013-32199 and 43-013-31784
Antelope Creek Oil Field
Duchesne County, UT

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

Dear Mr. Farnsworth:

On March 6, 2012, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced wells concerning the workovers to address tubing leaks and the followup mechanical integrity tests (MIT) conducted on February 28, 2012 and March 1 2012. The data submitted shows that the wells passed the required MITs. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MITs will be due on or before February 28, 2017 and March 1, 2017.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Phillip Chimburas, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Stewart Pike, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Richard Jenks, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Frances Poowegup, Councilwoman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Mike Natchees, Environmental
Coordinator
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,
Minerals and Air Programs
P.O. Box 70
Ute Indian Tribe
Fort Duchesne, Utah 84026

John Rogers
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

MAR 08 2012

RECEIVED

MAR 12 2012

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-1592
RETURN RECEIPT REQUESTED

DIV. OF OIL, GAS & MINING

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

5S 3W 29

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 29-02 and 18-13 Wells
EPA ID# UT20736-07121 and UT20736-04392
API # 43-013-32199 and 43-013-31784
Antelope Creek Oil Field
Duchesne County, UT

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

FOR RECORD ONLY

Dear Mr. Farnsworth:

On March 6, 2012, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced wells concerning the workovers to address tubing leaks and the followup mechanical integrity tests (MIT) conducted on February 28, 2012 and March 1 2012. The data submitted shows that the wells passed the required MITs. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MITs will be due on or before February 28, 2017 and March 1, 2017.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman
Uintah & Ouray Business Committee
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