

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOG FILE WATER SANDS LOCATION IDENTIFIED SUB. REPORT/abd.

980717 CONF exp:

DATE FILED MARCH 11, 1997

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN #

DRILLING APPROVED: MARCH 25, 1997

14-20-H62-3511

SPUDDED IN: 5.8.97

COMPLETED: 6.12.97 POW PUT TO PRODUCING:

INITIAL PRODUCTION: 45 BBL, 50 Mcf, 37 BBL

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 4552-5842' ALL LN

TOTAL DEPTH: 6192'

WELL ELEVATION: 6179' ML

DATE ABANDONED:

FIELD: ANTELOPE CREEK

UNIT:

COUNTY: DUCHESNE

WELL NO. UTE TRIBAL 16-08

API NO. 43-013-31853

LOCATION 1974 FNL FT. FROM (N) (S) LINE. 711 FEL

FT. FROM (E) (W) LINE. SE NE

1/4 - 1/4 SEC. 16

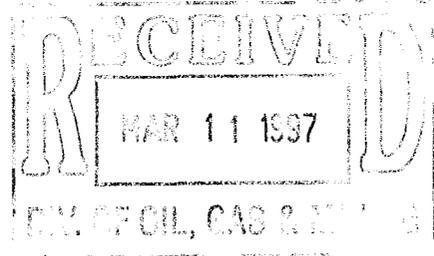
TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
5S	3W	16	PETROGLYPH OPERATING				

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
<i>B marker</i>	<i>4106</i>	Dakota	Park City
<i>x marker</i>	<i>4599</i>	Burro Canyon	Rico (Goodridge)
<i>y marker</i>	<i>4030</i>	Cedar Mountain	Supai
<i>Douglas crk</i>	<i>4743</i>	Buckhorn	Wolfcamp
<i>B limestone</i>	<i>5127</i>	JURASSIC	CARBON I FEROUS
<i>Castle Peak</i>	<i>5092</i>	Morrison	Pennsylvanian
<i>Basal Carb</i>	<i>6090</i>	Salt Wash	Quirrh
Colton	San Rafeal Gr.	San Rafeal Gr.	Weber
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE : CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	SIC		

Petroglyph Operating Co., Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

March 4, 1997

Utah Division of Oil, Gas, & Mining
Attn: Mr. Frank Matthews, Petroleum Engineer
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #16-08
SE/NE SEC. 16, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3511
UTE TRIBAL LANDS

Dear Mr. Matthews:

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 # (801) 789-4120
Fax # (801) 789-1420

Sincerely,

A handwritten signature in cursive script that reads "Ed Trotter".

Ed Trotter
Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL

DEEPEN

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface

1974' FNL & 711' FEL SE/NE

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.9 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 711'

(Also to nearest drlg. 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

6161'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6178.6' GRADED GROUND

22. APPROX. DATE WORK WILL START*

MARCH, 1997

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	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG +) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
7 7/8	5 1/2	15.5#	6161'	

CONFIDENTIAL

PETROGLYPH OPERATING COMPANY, 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
Ute Tribe, Fort Duchesne, Utah

RECEIVED
MAR 11 1997
DIV. OF OIL, GAS & REVENUE

CONFIDENTIAL

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.

24.

SIGNED

[Signature]

TITLE AGENT FOR PETROGLYPH

DATE 3-7-97

(This space for Federal or State office use)

PERMIT NO.

43-013-31853

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

DATE

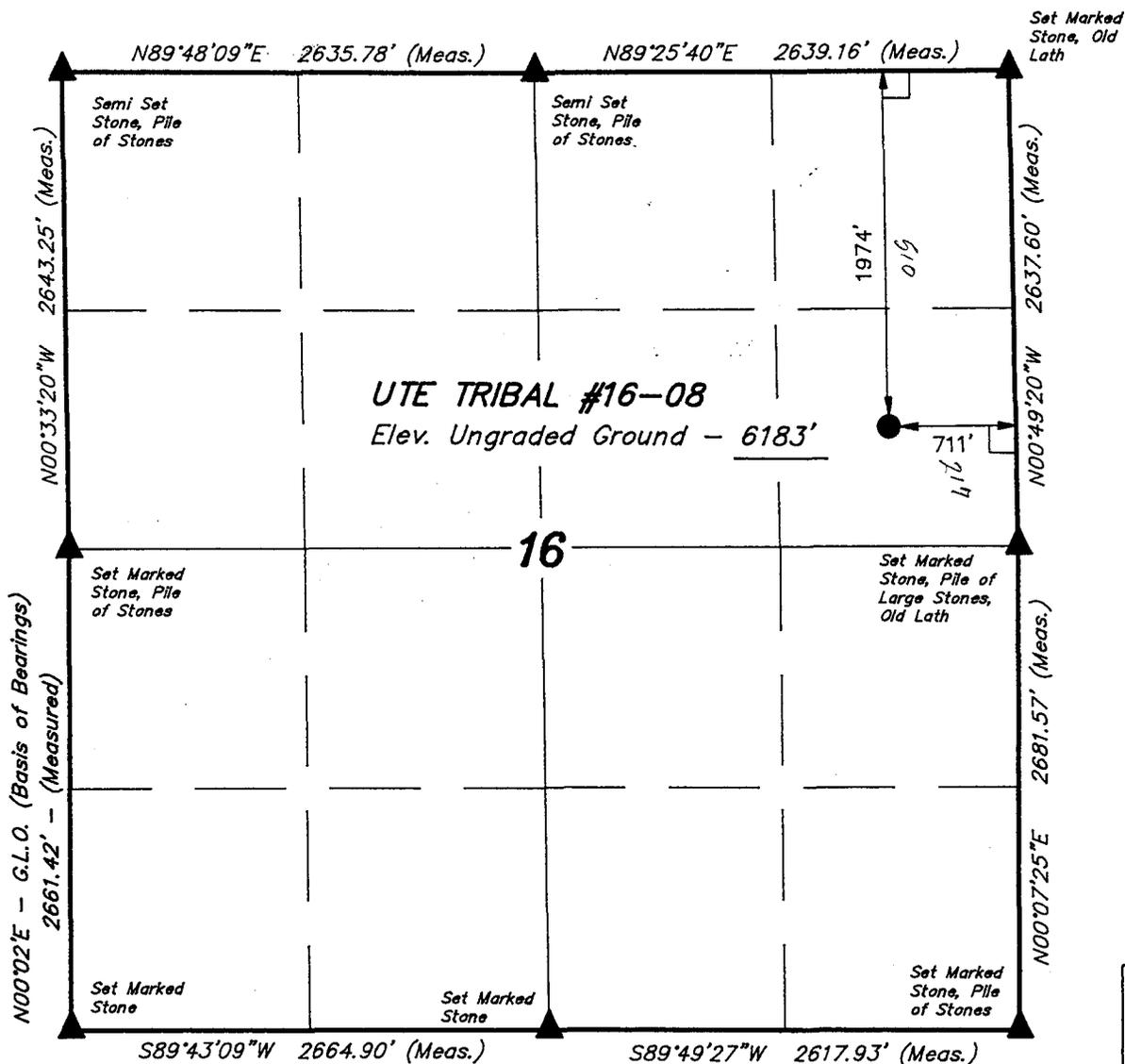
3/25/97

*See Instructions On Reverse Side

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

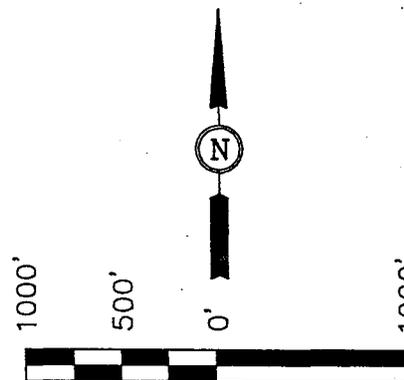
PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #16-08, located as shown in the SE 1/4 NE 1/4 of Section 16, T5S, R3W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

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



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Gray
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-10-97	DATE DRAWN: 01-24-97
PARTY J.F. C.K. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	

EIGHT POINT PLAN

UTE TRIBAL #16-08
SE/NE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2968	3192
"B" Marker	4077	2083
"X" Marker	4560	1600
Douglas Creek	4706	1454
"B" Limestone	5092	1068
B/Castle Peak Limestone	5651	509
Basal Carbonate Limestone	6051	109
Total Depth	6161	-1

Anticipated BHP 2000 psi

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4706	1454
Oil/Gas	B/Castle Peak	5651	509
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

		<u>MINIMUM SAFETY FACTOR</u>						
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6161'	6161'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #16-08
SE/NE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

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

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

6. VARIANCE REQUESTS:

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

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists 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 #16-08
SE/NE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- 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.

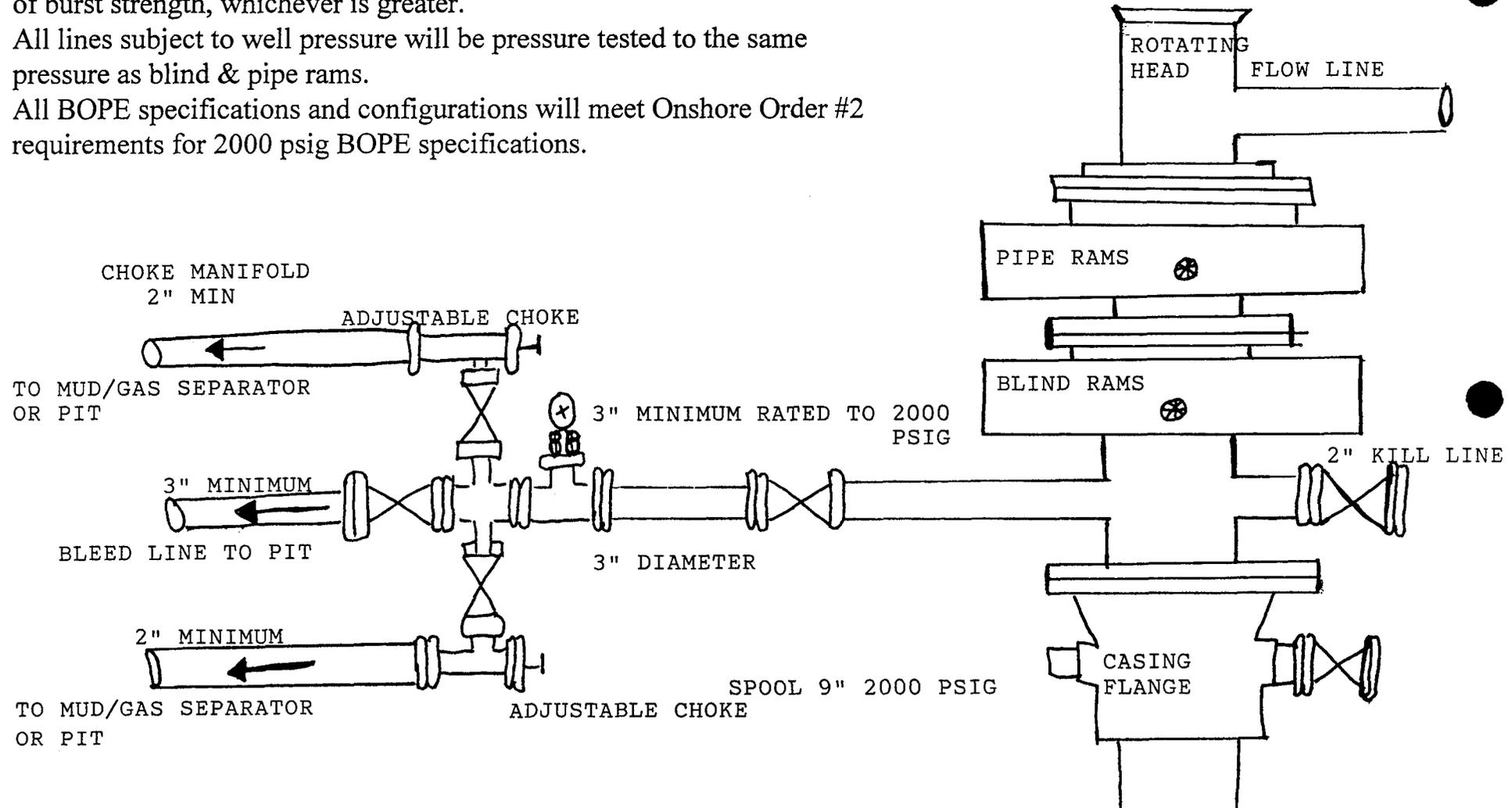
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.
CASING FLANGE IS 9" 2000 PSIG RATED.
BOPE 9" 2000 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 rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



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

Company/Operator: Petroglyph Operating Co., Inc.
Well Name & Number: Ute Tribal #16-08
Lease Number: BIA 14-20-H62-3511
Location: 1974' FNL & 711' FEL SE/NE, Sec. 16, 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 - 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 road.
- B. The proposed well site is located approximately 20.9 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 400 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 & 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 Operating Co., 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 - 1*
- D. Disposal wells - None.
- E. Drilling wells - None.
- F. Producing wells - 4*
- G. Shut in wells - None
- H. Injection wells - None

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

B. OFF WELL PAD

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 500' from proposed location to a point in the SE/NE of Section 16, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline to the Ute Tribal #16-06. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. 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 Ute Tribal #16-06 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 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- 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 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 drilling rig to avoid leakage of oil to pit.

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

- A. Refer to attached well site plat for related topography cuts and fills & 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 Southeast side of the location. The flare pit will be located downwind of the prevailing wind direction on the Southeast 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 Southeast side and North end.

Access to the well pad will be from the South.

One diversion ditch shall be constructed on the North side of the location above the cut slope, draining to the Southeast.

Soil compacted earthen berm(s) shall be placed on the _____ side(s) of the location between the _____

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

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

Corners No. 2 & 6 will be rounded off to minimize the fill.

FENCING REQUIREMENTS

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

- A. 39 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 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'.
- 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 travelled. 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 federal land, or any fence between federal 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 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, (c) 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 Operating Co., 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 Operating Co., 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 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 BLM specifications approximately _____ ft. _____ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter
1620 West 750 North
Vernal UT 84078
Telephone # (801)789-4120
Fax # (801) 789-1420

OPERATIONS

Vince Guinn
P.O. Box 607
Roosevelt, UT 84066
(801) 722-2531
Fax # (801) 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 Operating Co., 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 which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

3-7-97

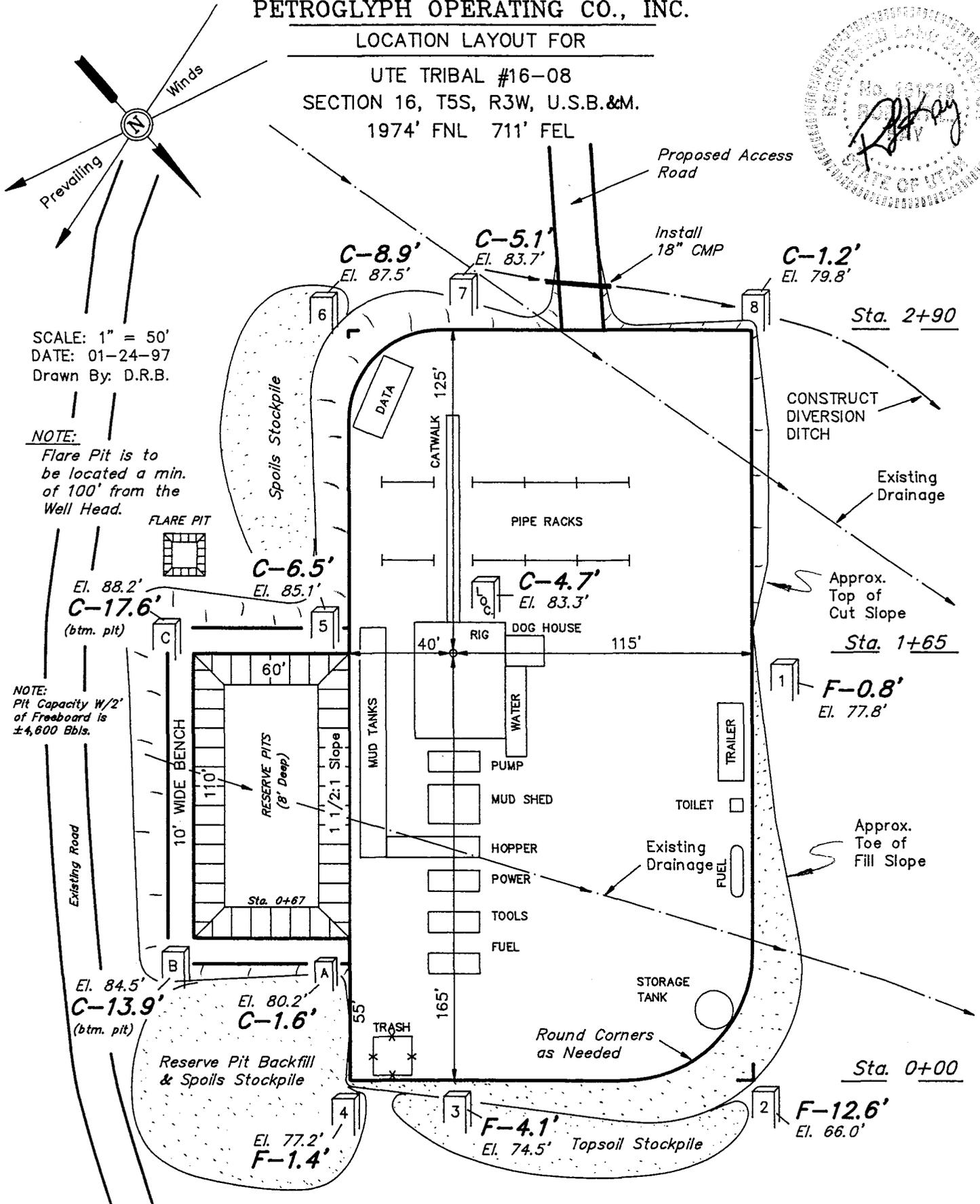
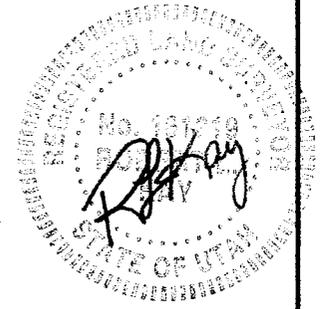
Date



PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #16-08
SECTION 16, T5S, R3W, U.S.B.&M.
1974' FNL 711' FEL



Elev. Ungraded Ground at Location Stake = **6183.3'**

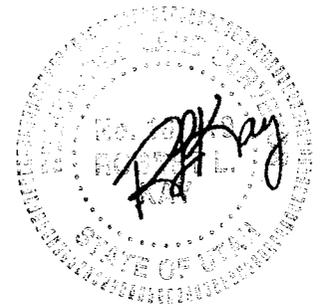
Elev. Graded Ground at Location Stake = **6178.6'**

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

PETROGLYPH OPERATING CO., INC.

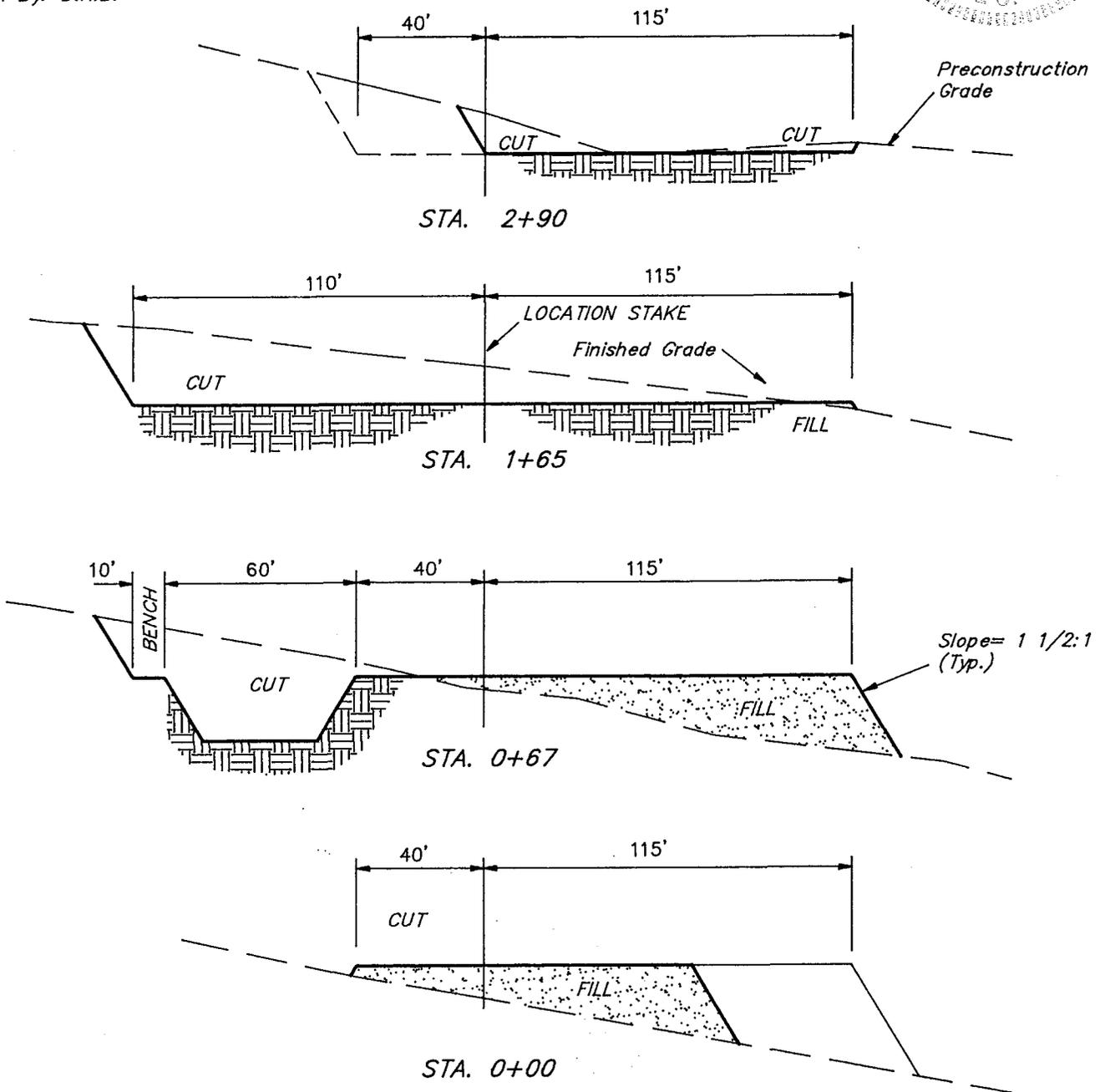
TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #16-08
SECTION 16, T5S, R3W, U.S.B.&M.
1974' FNL 711' FEL



1" = 20'
X-Section Scale
1" = 50'

DATE: 01-24-97
Drawn By: D.R.B.

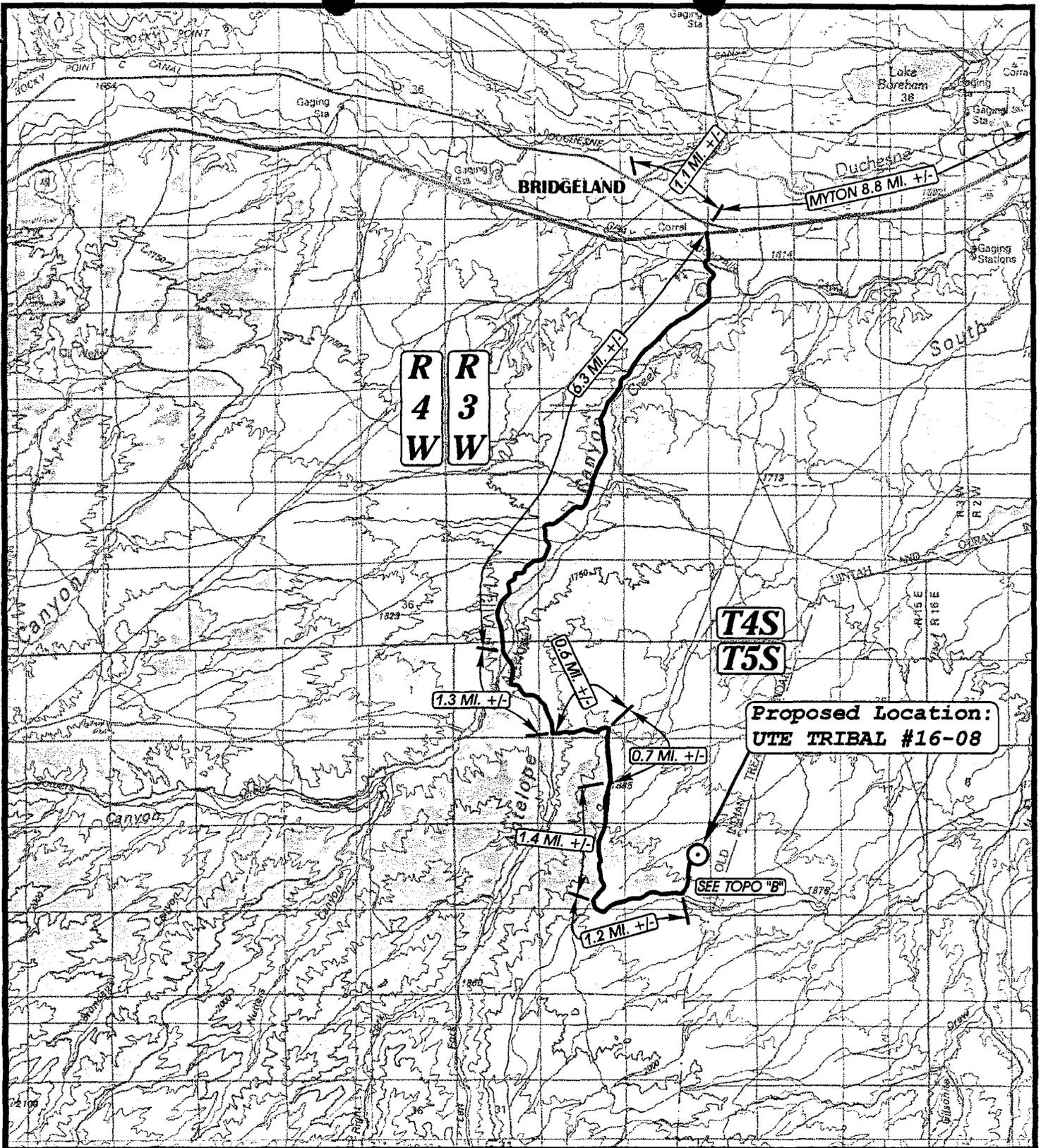


APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 1,910 Cu. Yds.
Remaining Location	= 5,840 Cu. Yds.
TOTAL CUT	= 7,750 CU.YDS.
FILL	= 4,880 CU.YDS.

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

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



UEIS

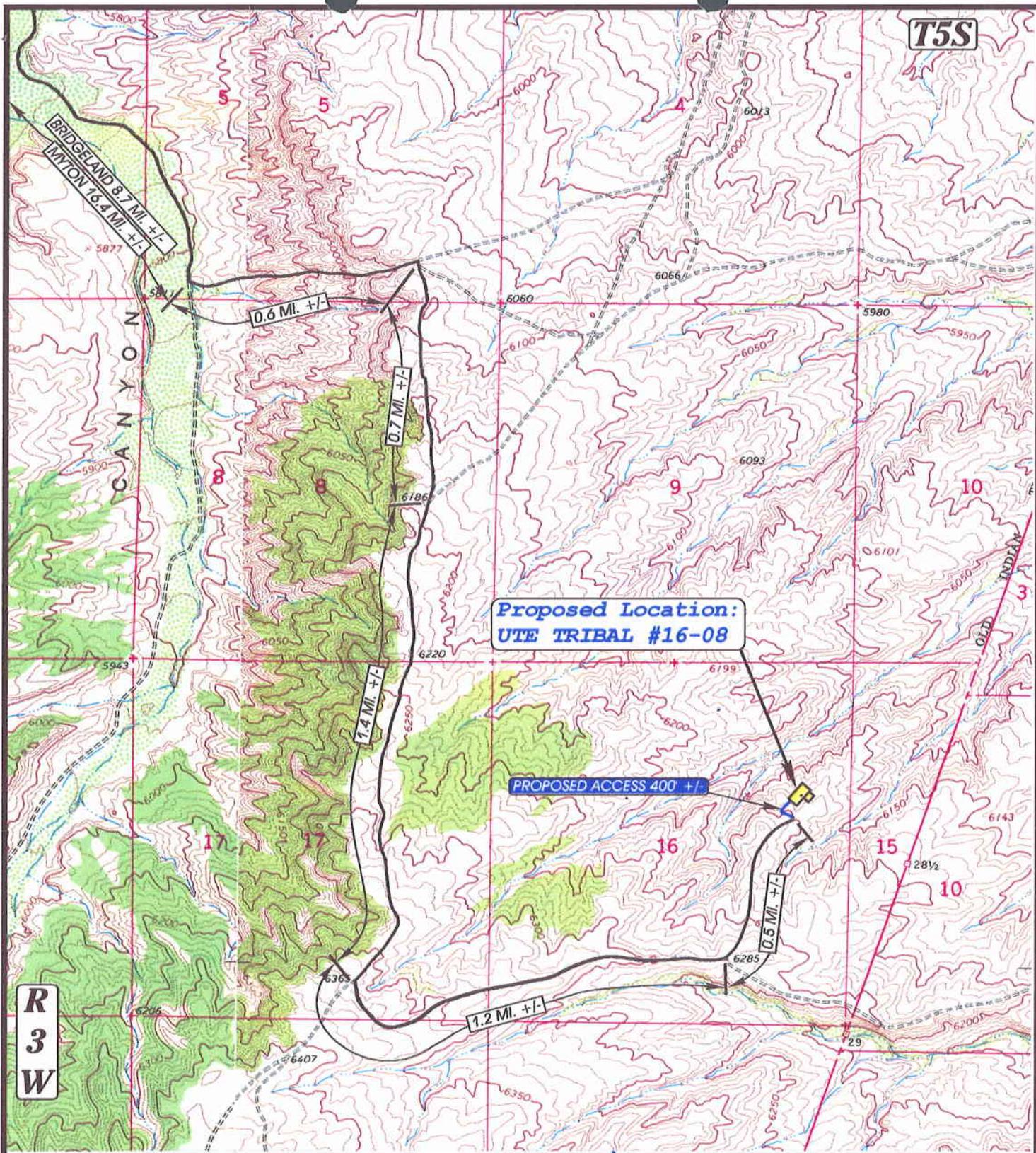
**TOPOGRAPHIC
MAP "A"**

DATE: 1-22-97
Drawn by: D. COX



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-08
SECTION 16, T5S, R3W, U.S.B.&M.
1974' FNL 711' FEL



**U
E
L
S**

**TOPOGRAPHIC
MAP "B"**

**DATE: 1-22-97
Drawn by: D.COX**

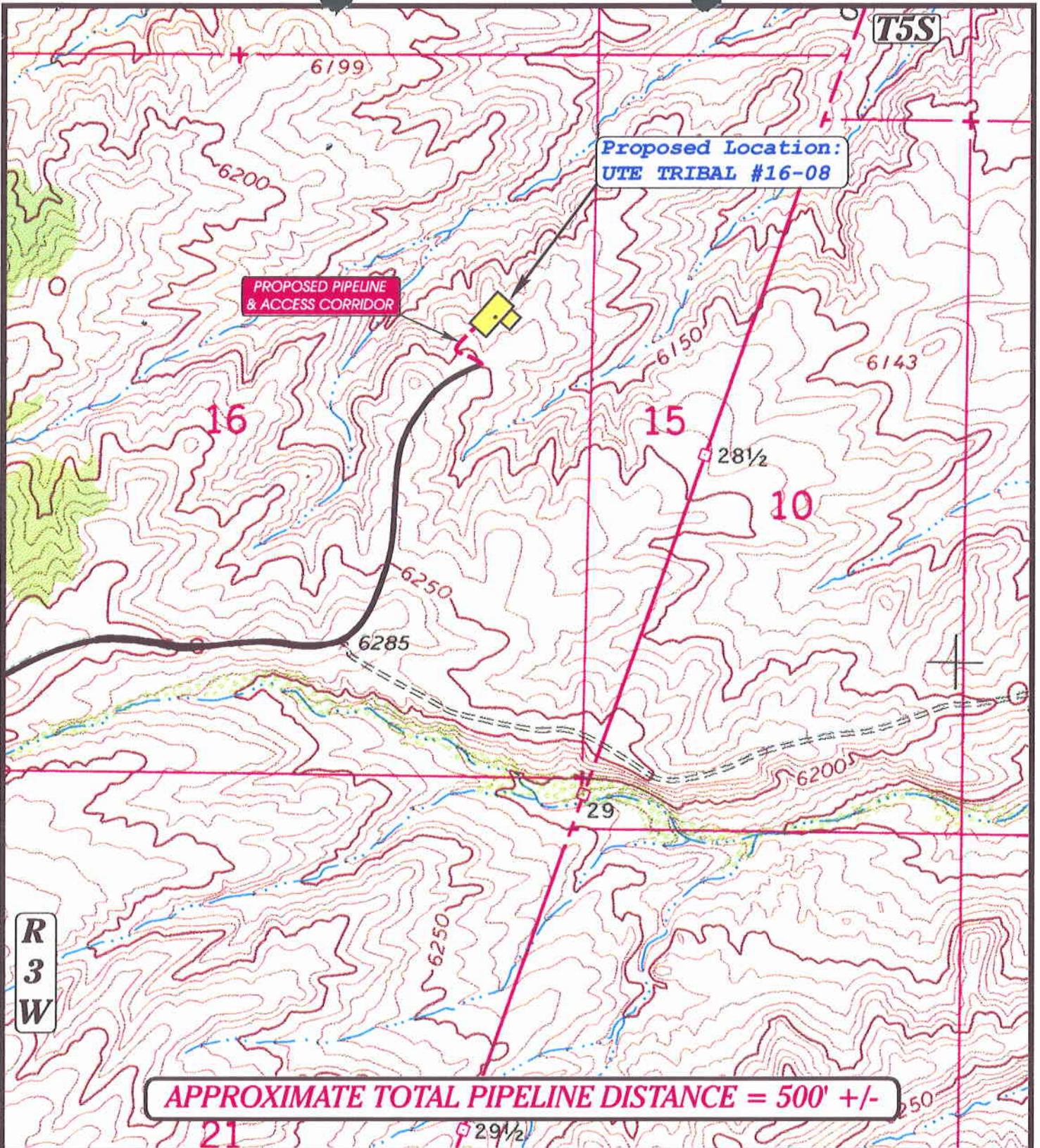
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



SCALE: 1" = 2000'

PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-08
SECTION 16, T5S, R3W, U.S.B.&M.
1974' FNL 711' FEL**



APPROXIMATE TOTAL PIPELINE DISTANCE = 500' +/-

**U
E
I
S**

**TOPOGRAPHIC
MAP "D"**

--- Proposed Pipeline Corridor



PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-08
SECTION 16, T5S, R3W, U.S.B.&M.**

**DATE: 1-23-97
Drawn by: D.COX**

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

SCALE: 1" = 1000'

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/11/97

API NO. ASSIGNED: 43-013-31853

WELL NAME: UTE TRIBAL
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:
SENE 16 - T05S - R03W
SURFACE: 1974-FNL-0711-FEL
BOTTOM: 1974-FLN-0711-FEL
DUCHESNE COUNTY
ANTELOPE CREK FIELD (060)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-3511

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal State Fee
(Number 80 4556)

Potash (Y/N)

Oil shale (Y/N)

Water permit
(Number 43-10152)

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

LOCATION AND SITING:

____ R649-2-3. Unit: _____

R649-3-2. General.

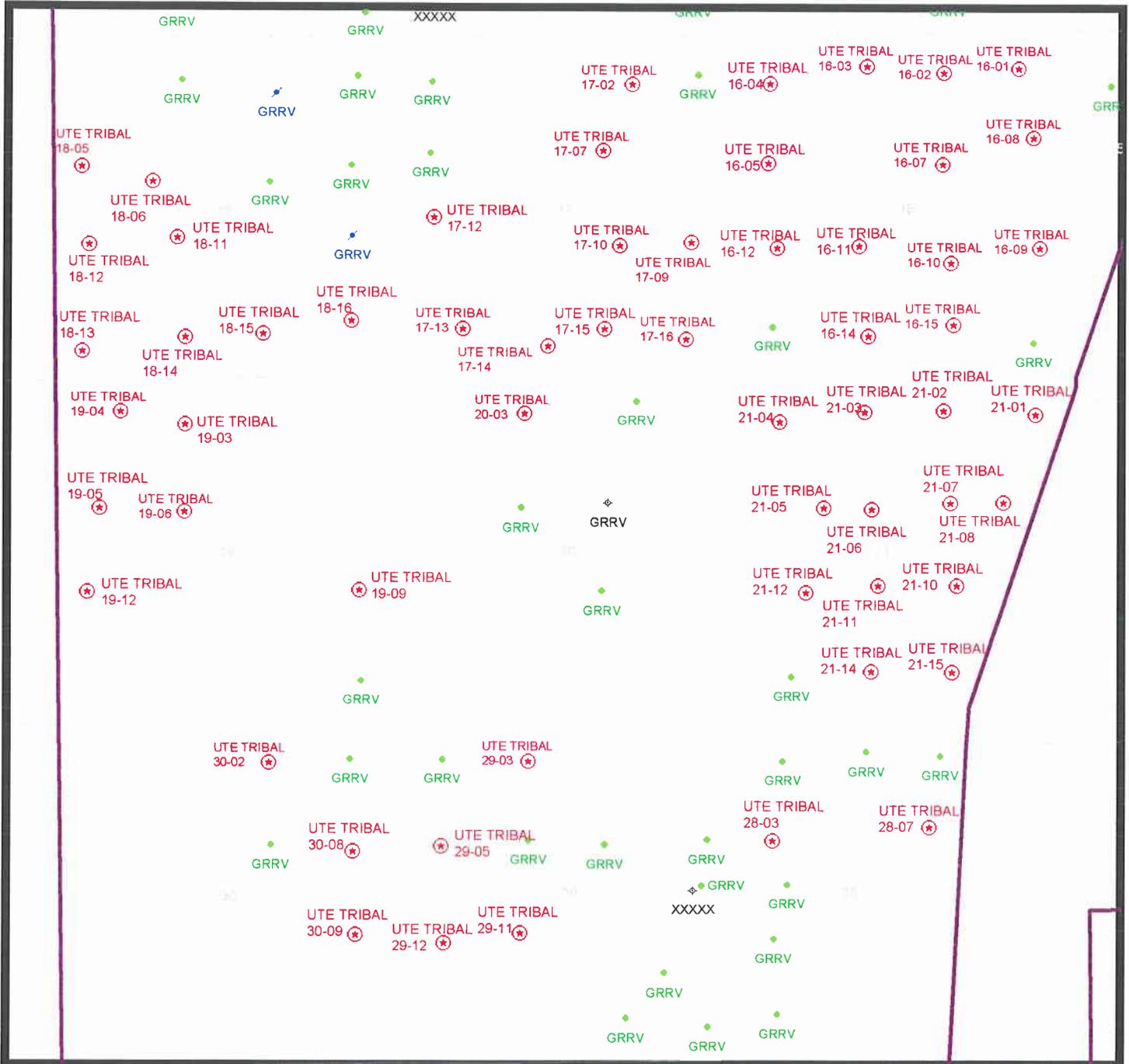
____ R649-3-3. Exception.

____ Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: _____

STIPULATIONS: _____

OPERATOR: PETROGLYPH
FIELD: ANTELOPE CREEK (060)
SEC. TWP. RNG: 16,17,18,19,29,33, T5S, R3W
COUNTY: DUCHESNE
UAC: R649-3-2 & R649-3-3



PREPARED:
DATE: 13-MAR-97



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

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

March 25, 1997

Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, Utah 84066

Re: Ute Tribal 16-08 Well, 1974' FNL, 711' FEL, SE NE, Sec. 16,
T. 5 S., R. 3 W., 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 43-013-31853.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth".

R. J. Firth
Associate Director

lwp

Enclosures

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

Operator: Petroglyph Operating Company, Inc.
Well Name & Number: Ute Tribal 16-08
API Number: 43-013-31853
Lease: 14-20-H62-3511
Location: SE NE Sec. 16 T. 5 S. R. 3 W.

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 following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.
 P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1974' FNL & 711' FEL SE/NE
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 20.9 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 711'
 (Also to nearest drlg. 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.
 6161'

19. PROPOSED DEPTH
 6161'

20. ROTARY OR CABLE TOOLS
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6178.6' GRADED GROUND

22. APPROX. DATE WORK WILL START*
 MARCH, 1997

5. LEASE DESIGNATION AND SERIAL NO.
 14-20-H62-3511

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 UTE INDIAN TRIBE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO.
 UTE TRIBAL

9. AP WELL NO.
 #16-08

10. FIELD AND POOL, OR WILDCAT
 ANTELOPE CREEK

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 16, T5S, R3W

12. COUNTY OR PARISH
 DUCHESNE

13. STATE
 UTAH

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	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG ±) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
7 7/8	5 1/2	15.5#	6161'	

PETROGLYPH OPERATING COMPANY, 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
 Ute Tribe, Fort Duchesne, Utah

RECEIVED
 MAR 20 1997

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.

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 3-7-97

(This space for Federal or State office use)
 PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:

DOGM APPROVED BY [Signature] TITLE ACTING Assistant Field Manager Mineral Resources DATE MAR 24 1997

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company

Well Name & Number: Ute Tribal 16-08

API Number: 43-013-31853

Lease Number: 14-20-H62-3511

Location: SENE Sec. 16 T. 5S R. 3W

NOTIFICATION REQUIREMENTS

- | | | |
|---------------------------------|---|---|
| Location Construction | - | at least 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 | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production Notice | - | 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.

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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

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.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected via the cementing program. 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 vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

The Gamma Ray and Induction Logs need to be pulled from TD to the Surface Shoe.

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

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.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

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 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (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 (b. 4).

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. Tests for meter accuracy will be conducted following initial installation and 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, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 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)

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Fifty (50) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 22 feet, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried 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 as recommended by the BIA. Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

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

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

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.

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 reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. 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.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

memorandum

DATE: MAR. 17 1997

REPLY TO
ATTN OF:

SUBJECT: Superintendent, Uintah & Ouray Agency
Concurrnce Letter for PETROGLYPH OPERATING CO. INC.

UT 16-08, SEC. 16, SENE
UT 16-03, SEC. 16, NENW
TO: UT 16-07, SEC. 16, SWSE & NESW,
Bureau of Land Management, Vernal District Office
Attention: Minerals and Mining Division

UT 16-09, SEC. 16, NESE
UT 16-10, SEC. 16, NWSE
UT 16-15, SEC. 16, SWSE

UT 16-01 to tie into UT 16-02,
Sec. 16, N/2NE,

RECEIVED
MAR 20 1997

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on March 17, 1997, we cleared the proposed location in the following areas of environmental impact.

- YES NO Listed threatened or endangered species
- YES NO Critical wildlife habitat
- YES NO Archaeological or cultural resources
- YES NO Air quality aspects (to be used only if project is in or adjacent to a Class I area)

REMARKS: The Ute Tribe Energy & Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction as a Tribal Technician is to monitor construction.
2. 50 foot corridor rights-of-way shall be granted with the following:
 - A. Buried pipelikes shall be buried minimum of 3 feet below soil surface.
 - B. Access roads shall be limited to 22 feet, except as granted for sharp turns.
 - C. Surface pipelines shall be limited to 13 feet wide,.
 - D. Buried pipeline shall be limited to 15 feet wide, and construction will be monitored by Tribal Technician.
3. Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
4. Petroglyph Operating Co. Inc. will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have an access permits prior to construction.
5. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
6. All mitigative stipulations contained in the Bureau of Indian Affairs, combined site specific Environmental Analysis (EA), will be strictly adhered.
7. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
8. The personnel from the Ute Tribe Energy & Minerals Department should be consulted, should cultural remains from subsurface deposits be exposed during construction work.
9. Upon completion of Application for Right-of-way, the Ute Tribe Energy and Minerals Department will be notified by Petroglyph Operating Co. Inc., so that a Tribal Technician can verify Affidavit of Completions.

Charles H. Cameron

ATTACHMENT: (7) BIA Environmental Analysis, for each location.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 16-08

Api No. 43-013-31853

Section: 16 Township: 5S Range: 3W County: DUCHESNE

Drilling Contractor UNION

Rig # 16

SPUDDED:

Date 5/8/97

Time _____

How ROTARY

Drilling will commence _____

Reported by DEANNA

Telephone # 1-801-722-2531

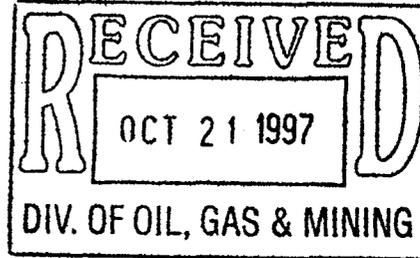
Date: 5/12/97 Signed: JLT

✓



October 15, 1997

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



~~CONFIDENTIAL~~

Ms. Dyson:

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

<u>Well Name</u>	<u>Log</u>
Ute Tribal 19-06	CNL & AIT
Ute Tribal 16-07	CNL & AIT
Ute Tribal 19-05	CNL & AIT
Ute Tribal 18-11	CNL & AIT
Ute Tribal 15-12	CNL & AIT
Ute Tribal 16-03	CNL & AIT
Ute Tribal 14-05	CNL & AIT
Ute Tribal 19-09	CNL & AIT
Ute Tribal 16-08	CNL & AIT
Ute Tribal 19-04	CNL & AIT
Ute Tribal 07-10	CNL & AIT
Ute Tribal 19-03	CNL & AIT
Ute Tribal 30-10	CNL & AIT
Ute Tribal 30-11	CNL & AIT

43 013 31853 7055 2034 16

If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

Judy Gates
Petroleum Geology Technician

COMPLETION REPORT

CONFIDENTIAL

9/25/97

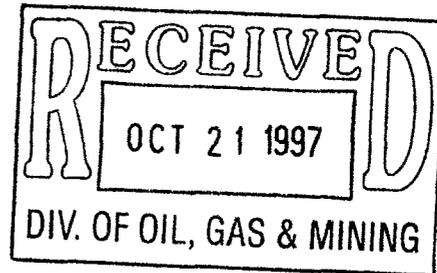
Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc. **Elevation:** KB 6189
Lease: Ute Tribal 16-08 GL 6179
API #: 43-013-31853 **Property:** 50157
Location: 16 - 5 S - 3 W **AFE/EPE Number:** 41352
County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
6/2/97	\$5,599.00	PERFORATIONS: 5836-5842 Green River E (03.3) 4 SPF 24 shots WELLBORE: 6192 RTD 6198 LTD 6116 PBTD 6161 CSA

MIRU serv rig. NU frac head & BOPs. Test csg to 4500 psl. PU. Tally & RIH w/ BVBP & 2-7/8" tbg to ± 5900'. Set BVBP & POOH to ± 5850'. Spot 6 bbls 15% HCL @ E3.3 interval & POOH w/ ret head.

RU Schlumberger & perf E3.3 zone @ 5836-42' w/ 4 spf (24 holes). Bkdn E3.3 zone @ 2300 psl & pump HCL away @ 3 bpm @ 1500 psl. Over disp w/ 10 bbls K wtr. SWIFN.



COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189
GL 6179

Well: Ute Tribal 16-08

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/3/97	\$28,986.00	PERFORATIONS: 5836-5842 Green River E (03.3) 4 SPF 24 shots 5027-5029 Green River C (08.2) 4 SPF 8 shots 4992-4994 Green River C (08.1) 4 SPF 8 shots WELLBORE: 6192 RTD 6198 LTD 6116 PBD 6161 CSA
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MIRU HES. Open well w/ SICP on E3.3 @ 350 psi. Frac E3.3 zone w/ 6000 gal Boragel 30 w/ 34000# 20/40 sand @ .5 - 10 ppg. MTP @ 2488 psi. ATP @ 2250 psi. MTR @ 27 bpm. ATR @ 25.3 bpm. ISIP @ 1980 psi. 5 min @ 1813 psi. Pfg @ .77. Lubricate in hole w/ DBP & perf guns set RBP @ 5100' and test to 3000 psi.

Perf C8.2 zone @ 5027-29' w/ 4 spf (8 holes) & C8.1 zone @ 4992-94' w/ 4 spf (8 holes) RD wireline. RIH w/ 5 1/2" RTTS. Circulate clean @ 5040'. Spot 6 bbls 15% HCL @ C8.2 & C8.1 interval. POOH to 5015' and set RTTS.

Brkdwn C8.2 zone dwn tbg @ 1900 psi and IR @ 5 bpm @ 2500 psi. Brkdwn C8.1 zone dwn annulus @ ±1800 psi and IR @ 2 1/2 bpm @ 1800 psi. Rel RTTS & POOH.

RU HES & frac C8.2 & C8.1 zones 2/ 250 gal 15% HCL & 6100 gal Boragel 30 w/ 39000# 20/40 sand @ .5 to 10 ppg. MTP @ 2644 psi ATP @ 2350 psi. MTR @ 32 bpm & ATR @ 30.3 bpm. ISIP @ 2031 psi. 5 min @ 1868 psi. Pfg @ .83. Flow C8.2 & C8.1 zone to tank @ 4 min @ ±60 bph to 0 psi. Well flowed 81 bbls in 1 hr 20 min w/ trace of oil in flow back. RIH w/ ref head & tag sand @ 5062'. Clean out to RBP @ 5100'. Rel RBP & POOH. RIH w/ ref head to ±1280' & SWIFN. Flowed ±81 bbls & displaced ±20 bbls total @ 101 bbls.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6000	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	34000	.5-10

PRESSURE/RATE:

Maximum:	2488 psi	27 BPM
Average:	2250 psi	25.3 BPM

SI PRESSURE:	TP	CP
	ISIP:	1980

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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5 Min:

1813

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6100	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	29000	.5-10

PRESSURE/RATE:

Maximum:	2644 psi	32 BPM
Average:	2350 psi	30.3 BPM

SI PRESSURE:

	TP	CP
ISIP:	2031	
5 Min:	1868	

FLUID RECOVERY

ZONE BLF:	662
ZONE BLFR:	101
ZONE BLFTR:	561
ZONE % REC:	15.3%
WELL BLF:	662
WELL BLFR:	101
WELL BLFTR:	561
WELL % REC:	15.3%

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/4/97

\$5,388.00

PERFORATIONS:

5836-5842	Green River E (03.3)	4 SPF	24 shots
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5027-5029	Green River C (08.2)	4 SPF	8 shots
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4992-4994	Green River C (08.1)	4 SPF	8 shots
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WELLBORE:

6192	RTD
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6198	LTD
------	-----

6116	PBTD
------	------

6161	CSA
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W/ all zones open E3.3, C8.2 & C8.1. SICP @ 75 psi & SITP @ 75 psi. Finish RIH w/ ret head & tag sand @ 5825'. Clean out to BVBP @ 5900'. Had oil & gas when circ across E3.3 perms. POOH w/ 3 jts & w/ EOT @ 5834'. RU & swab well. Made 24 runs. IFL @ surf. Had trace of oil on run #15 & incr to 20% on last run. FFL @ 3600' TWR @ 1458 bbls. TOR @ 12 bbls. SWIFN.

FLUID RECOVERY

ZONE BLF:	662
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ZONE BLFR:	246
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ZONE BLFTR:	416
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ZONE % REC:	37.2%
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WELL BLF:	662
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WELL BLFR:	246
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WELL BLFTR:	416
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WELL % REC:	37.2%
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COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/5/97	\$3,738.00	PERFORATIONS:
		5836-5842 Green River E (03.3) 4 SPF 24 shots
		5027-5029 Green River C (08.2) 4 SPF 8 shots
		4992-4994 Green River C (08.1) 4 SPF 8 shots
		4791-4797 Green River C (05) 4 SPF 24 shots
		WELLBORE:
		6192 RTD
		6198 LTD
		6116 PBTD
		6161 CSA

Open well w/ E3.3, C8.2 & C8.1 zones swbd to 3600' & oil cut @ 20% last pm. This am SICP @ 250 psi & SITP @ 50 psi. RU & swab. Made 8 runs. IFL @ 3200'. TWR @ 40 bbls. TOR @ 31 bbls. MOC @ 80%. FFL @ 4000'. RD swab. RIH & tag sand @ 4895'. Clean out to BVBP @ 5900'. (All perms covered w/ sand).

Rel BVBP & POOH to 4950'. Set BVBP & test to 4500 psi. POOH w/ EOT @ 4805' & spot 6 bbls 15% HCL @ C5 interval & POOH w/ ret head.

RU Schlumberger & perf C5 zone @ 4791-97' w/ 4 spf (24 holes). RD Wireline. Bkdn perms @ 2200 psi. IR 10 bbls Kwater @ 3 bpm @ 1500 psi. SWIFN.

BHP = 869 psi = .17 psi/ft.

FLUID RECOVERY

ZONE BLF:	662
ZONE BLFR:	286
ZONE BLFTR:	376
ZONE % REC:	43.2%
WELL BLF:	662
WELL BLFR:	286
WELL BLFTR:	376
WELL % REC:	43.2%

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/6/97	\$29,409.00	<p>PERFORATIONS:</p> <table border="0" style="width: 100%;"> <tbody> <tr> <td style="width: 150px;">5836-5842</td> <td>Green River E (03.3)</td> <td style="text-align: right;">4 SPF</td> <td style="text-align: right;">24 shots</td> </tr> <tr> <td>5027-5029</td> <td>Green River C (08.2)</td> <td style="text-align: right;">4 SPF</td> <td style="text-align: right;">8 shots</td> </tr> <tr> <td>4992-4994</td> <td>Green River C (08.1)</td> <td style="text-align: right;">4 SPF</td> <td style="text-align: right;">8 shots</td> </tr> <tr> <td>4791-4797</td> <td>Green River C (05)</td> <td style="text-align: right;">4 SPF</td> <td style="text-align: right;">24 shots</td> </tr> <tr> <td>4552-4556</td> <td>Green River B (11)</td> <td style="text-align: right;">4 SPF</td> <td style="text-align: right;">16 shots</td> </tr> </tbody> </table> <p>WELLBORE:</p> <table border="0" style="width: 100%;"> <tbody> <tr> <td style="width: 100px;">6192</td> <td>RTD</td> </tr> <tr> <td>6198</td> <td>LTD</td> </tr> <tr> <td>6116</td> <td>PBTD</td> </tr> <tr> <td>6161</td> <td>CSA</td> </tr> </tbody> </table>	5836-5842	Green River E (03.3)	4 SPF	24 shots	5027-5029	Green River C (08.2)	4 SPF	8 shots	4992-4994	Green River C (08.1)	4 SPF	8 shots	4791-4797	Green River C (05)	4 SPF	24 shots	4552-4556	Green River B (11)	4 SPF	16 shots	6192	RTD	6198	LTD	6116	PBTD	6161	CSA
5836-5842	Green River E (03.3)	4 SPF	24 shots																											
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4791-4797	Green River C (05)	4 SPF	24 shots																											
4552-4556	Green River B (11)	4 SPF	16 shots																											
6192	RTD																													
6198	LTD																													
6116	PBTD																													
6161	CSA																													

Open well w/ C5 zone perfd & brkdwn yesterday. This am SICP @ 0 psi. RU HES & frac C5 zone w/ 6600 gal Boragel 30 w/ 42000# 20/40 sand @ .5 to 10 ppg. MTP @ 2450 psi. ATP @ 2150 psi. MTR @ 26.2 bpm. ATR @ 25.4 bpm. ISIP @ 2116 psi. 5 min @ 2044 psi. Pfg @ .87.

RU Schlumberger & lub in hole w/ RBP & perf gun. Set RBP @ ±4600' & test to 3000 psi. Spot HCL @ perms w/ dump bailer & bkdn @ 2500 psi. IR @ ½ bpm @ 2500 psi.

RU HES & attempt to bkdn well press up to 3500' w/ slow bleed off. RIH w/ collar locator & tagged @ 4580' (20' above plug). RD Wireline. RIH w/ tbg to 4580' & tag up. POOH w/ EOT @ 4565'. Spot 6 bbls 15% HCL & POOH w/ 1 jt.

RU HES & bkdn perms @ 2372 psi. IR @ 8.8 bpm @ 2900 spi. RD HES & POOH w/ tbg. RU HES & frac B11 zone w/ 5200 gal Boragel 30 w/ 23700# 20/40 sand @ .5 to 10 ppg. MTP @ 2500 psi. ATP @ 2350 psi. MTR @ 26.5 bpm. ATR @ 25.4 bpm. ISIP @ 1989 psi. 5 min @ 1842 psi. Flow well to tank @ ±60 bph to 0 psi. Flowed 59 bbls in 1 hr.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6600	gal
			gal

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	42000	.5-10

PRESSURE/RATE:

Maximum:	2450 psi	26.2 BPM
Average:	2150 psi	25.4 BPM

SI PRESSURE:	TP	CP
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COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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ISIP:	2116
5 Min:	2044

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	5200	gal

PROPPANT:	Type	Total Lbs:	Ramp	Range
1	20/40 sand	23700	.5-10	

PRESSURE/RATE:

Maximum:	2500 psi	26.5 BPM
Average:	2350 psi	25.4 BPM

SI PRESSURE:

	TP	CP
ISIP:	1989	
5 Min:	1842	

FLUID RECOVERY

ZONE BLF:	621
ZONE BLFR:	51
ZONE BLFTR:	570
ZONE % REC:	8.2%
WELL BLF:	1283
WELL BLFR:	337
WELL BLFTR:	946
WELL % REC:	26.3%

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

6/7/97

\$2,100.00

PERFORATIONS:

5836-5842	Green River E (03.3)	4 SPF	24 shots
5027-5029	Green River C (08.2)	4 SPF	8 shots
4992-4994	Green River C (08.1)	4 SPF	8 shots
4791-4797	Green River C (05)	4 SPF	24 shots
4552-4556	Green River B (11)	4 SPF	16 shots

WELLBORE:

6192	RTD
6198	LTD
6116	PBTD
6161	CSA

Open well w/ B11 zone flowed to pit to 0 psi & RBP above C5 zone. This am SICP @ 25 psi. RIH w/ ret head & tag sand @ 4520'. Clean out to RBP @ 4600'. Rel RBP & POOH. RIH w/ ret head & tag sand @ 4870'. Clean out to BVBP @ 4950'. POOH to 4830' & RU to swab. Made 18 runs. IFL @ surface. Had trace of oil on Run #3 & incr to 20% on run #18. FFL @ 2400'. TWR @ 170 bbls. TOR @ 19 bbls. SWIFW.

FLUID RECOVERY

ZONE BLF:	621
ZONE BLFR:	221
ZONE BLFTR:	400
ZONE % REC:	35.6%
WELL BLF:	1283
WELL BLFR:	507
WELL BLFTR:	776
WELL % REC:	39.5%

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

6/9/97	\$8,989.00	PERFORATIONS:
		5836-5842 Green River E (03.3) 4 SPF 24 shots
		5027-5029 Green River C (08.2) 4 SPF 8 shots
		4992-4994 Green River C (08.1) 4 SPF 8 shots
		4791-4797 Green River C (05) 4 SPF 24 shots
		4552-4556 Green River B (11) 4 SPF 16 shots
		WELLBORE:
		6192 RTD
		6198 LTD
		6116 PBTD
		6161 CSA

Open well w/ C5 & B11 zones swbd to 20% oil & 2400' last pm. This am SICP @ 150 psi & SITP @ 175 psi. RU & swab well. Made 6 runs. IFL @ 600'. Oil cut on run #1 @ 80%. Dropped to 15% on Run #2 & Incr to 40% on last run. FFL @ 1800'. TWR @ 45 bbls. TOR @ 18 bbls. RD swab.

RIH w/ tbg & tag sand @ 4946'. Clean out to BVBP @ 4950'. Rel BVBP & POOH to \pm 2000'. Set BVBP & test to 2000 psi. Spot 10 gal sand on plug & POOH w/ ret head.

RIH w/ set tool for port collar. Collar not @ 1318'. Open set tool & RIH to find collar. Found @ 1408' (2 jts deeper than shown on drilling report.) Open collar & brk circ. RU HES & cmt w/ 125 sx HiFill (@ 11 ppg & 3.79 cuft/sk.) Circ \pm 2 bbls cmt to pit. Close collar & test to 500 psi. Rev out tbg & POOH w/ set tool. RIH w/ ret head & clean off BVBP while circ w/ hot wtr to help set up cmt. Circ 2 hrs. SWIFN.

FLUID RECOVERY

ZONE BLF:	621
ZONE BLFR:	266
ZONE BLFTR:	355
ZONE % REC:	42.8%
WELL BLF:	1283
WELL BLFR:	552
WELL BLFTR:	731
WELL % REC:	43%

COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description		
6/11/97	\$1,400.00	PERFORATIONS:		
		5836-5842	Green River E (03.3)	4 SPF 24 shots
		5027-5029	Green River C (08.2)	4 SPF 8 shots
		4992-4994	Green River C (08.1)	4 SPF 8 shots
		4791-4797	Green River C (05)	4 SPF 24 shots
		4552-4556	Green River B (11)	4 SPF 16 shots
		WELLBORE:		
		6192	RTD	
		6198	LTD	
		6116	PBTD	
		6161	CSA	

RU Schlumberger & run CBL from 1500' to surf. RD Wireline. Rig not working due to mech problems. Will resume in am. SWIFN.

6/12/97	\$21,820.00	PERFORATIONS:		
		5836-5842	Green River E (03.3)	4 SPF 24 shots
		5027-5029	Green River C (08.2)	4 SPF 8 shots
		4992-4994	Green River C (08.1)	4 SPF 8 shots
		4791-4797	Green River C (05)	4 SPF 24 shots
		4552-4556	Green River B (11)	4 SPF 16 shots
		WELLBORE:		
		6192	RTD	
		6198	LTD	
		6116	PBTD	
		6161	CSA	

Open well w/ BVBP @ ± 2000'. SICP @ 0 psi. RIH w/ ret head to BVBP @ 2000'. Rel BVBP & POOH. RIH w/ BHA (see detail below). ND BOPS & frac head. NU tbg flange set B2 TAC & NU tbg head w/ ± 10000# tension on the TAC. RIH w/ pump & rods (see detail below.) Seat pump & space out PR. Fill tbg w/ 3 bbls K wtr & test to 500 psi. Bleed off then long stroke pump w/ good action. RD service rig & rel equip. Final report. Waiting on surface equip.

TWTR @ 731 bbls.

Cumulative Cost: \$107,429.00

Days Since Start: 11

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
14-20-H62-3511

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1.a. TYPE OF WELL: Oil Well Gas Well Dry Other

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

b. TYPE OF COMPLETION:
New Well Workover Deepen Plug Back Diff. Reserv. Other

8. FARM OR LEASE NAME

2. NAME OF OPERATOR
Petroglyph Operating Company, Inc.

9. WELL NO.
Ute Tribal 16-08

3. ADDRESS OF OPERATOR
P.O. Box 607, Roosevelt, UT 84066 (801) 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 1974' FNL 711' FEL

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SENE Sec. 16-T5S-R3W

At top prod. interval reported below

At total depth 6192' RTD

CONFIDENTIAL

14. PERMIT NO.
43-013-31853

DATE ISSUED
3/25/97

12. County or Parish
Duchesne

13. State
Utah

15. DATE SPUDDED 5/8/97

16. DATE T.D. REACHED 5/15/97

17. DATE COMPLETED (Ready to prod.)
6/12/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
6179' GL

19. ELEV. CASINGHEAD
6179'

20. TOTAL DEPTH, MD & TVD
6192' RTD

21. PLUG BACK T.D., MD & TVD
6115'

22. IF MULTIPLE COMPL., HOW MANY*
4

23. INTERVALS DRILLED BY
ROTARY TOOLS
CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)*
Green River

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN
CNL AIT 10-22-97

27. WAS WELL CORED

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	259'	12-1/4"	200 sxs Type 5	
5-1/2"	15-5#	6161'	7-7/8"	90 sxs Highfill	
				310 sxs Thixotropic	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5930'	

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

E3.3 5836-42' (24 shots)
C8.2 5027-29' (8 shots)
C8.1 4992-94' (8 shots)
C5 4791-97' (24 shots)
B11 4552-56' (16 shots)

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DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5836-42'	6000 gal Boragel, 34000# 20/40 prop
5027-29' & 4992-94'	250 gal 15% HCl & 6100 gal Boragel, 29000# 20/40 prop
4791-97'	6600 gal Boragel, 42000# 20/40 prop
4552-56'	5200 gal Boragel, 23700# 20/40 prop

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)					
10/9/97	2 1/2" x 1-3/4" x 16' 40 ring RHAC pump	producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
10/15/97	24			45	50	37	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HR. RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
	950						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

CONFIDENTIAL
PERIOD

TEST WITNESSED BY
Dave Schreiner

35. LIST OF ATTACHMENTS

EXPIRED
ON 7-12-98

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

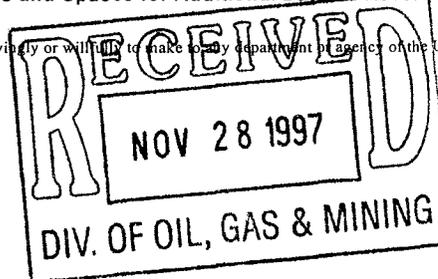
Signed Jenna Bell

Title Operations Coordinator

Date 11-25-97

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or 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.



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37. SUMMARY OF POROUS ZONES: (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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
B Marker	4106		CONFIDENTIAL			
X Marker	4599					
Y Marker	4636					
Douglas Creek	4743					
B Limestone	5127					
Castle Peak	5692					
Basal Carbonate	6090					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Petroglyph Operating Company, Inc.

3. Address and Telephone No.
P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500

4. Location of Well (Footage, Sec., T., R., or Survey Description)
**1974' FNL and 711' FEL
 SE NE Sec. 16 T5S R 3W**

5. Lease Designation and Serial No.
14-20-H62-3511

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA, Agreement Designation
14-20-H62-4650

8. Well Name and No.
Ute Tribal 16-08

9. API Well No.
43-013-31853

10. Field and Pool, or Exploratory Area
Antelope Creek

11. County or Parish, State
Duchesne County, UT

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

TYPE OF SUBMISSION	NATURE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal Well # 16-08 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed Kathy Turner Title Petroleum Engineering Tech Date 12-16-97

(This space for Federal or State official use)

Approved by _____ Title _____ Date _____

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes 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 in its jurisdiction.

*See Instruction on Reverse Side

OPERATOR Petroglyph Operating Company, Inc.
 ADDRESS P.O. Box 607
Roosevelt, UT 84066

OPERATOR ACCT. NO. H3800

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12083	43-013-31853	Ute Tribal 16-08	SENE	16	5S	3W	Duchesne	5-8-97	
WELL 1 COMMENTS: <i>Entity added 12-15-97. Lic</i> Ute Tribal 16-08 will tie into tank battery at the Ute Tribal 16-06											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES** (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - D - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - B - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

FAXED

By _____

Deanna K. Bell
 Signature Deanna K. Bell
 Operations Coordinator 5-12-97
 Title _____ Date _____
 Phone No. (801) 722-2531

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: UTE Tribal # 16-08

API number: 43-013-31853

2. Well Location: QQ SENE Section 16 Township 5S Range 3W County Duchesne

3. Well operator: Petroglyph Operating Company, Inc.

Address: P.O. Box 607

Roosevelt, UT 84066

Phone: (810)722-2531

4. Drilling contractor: Union DRILLING

Address: PO Box DRAWER 40

Buckhannon, W.VA

Phone: 304(472-4610)

5. Water encountered (attach additional pages as needed):

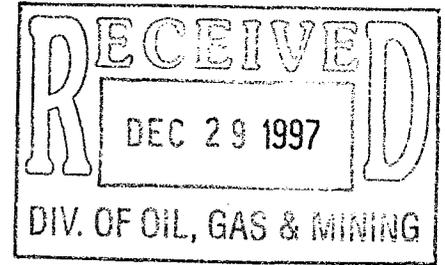
DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	235	DRY	
235	345	DAMP	NO SAMPLE
345	985	DRY 985 DAMP	1/8 X 7
985			

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 5-10-97

Name & Signature: [Signature] Title: DRILLER



December 24, 1997

Mr. Jim Thompson
State of Utah - Division of Oil, Gas & Mining
1594 West North Temple, Ste. 1210
Box 145801
Salt Lake City, UT 84114-5801

RE: EPA AREA PERMIT NO. 2736-00000

Dear Mr. Thompson:

Enclosed are copies of Sundry Notices being filed with the Bureau of Land Management requesting permission to convert from producing to injection on the following wells:

Ute Tribal #07-09	Ute Tribal #28-05A
Ute Tribal #07-16	Ute Tribal #29-06
Ute Tribal #16-02	Ute Tribal #30-11
Ute Tribal #16-08	Ute Tribal #33-08D3
Ute Tribal #18-12	Ute Tribal #33-10D3
Ute Tribal #16-16	Ute Tribal #33-14D3
Ute Tribal #21-03	Ute Tribal #33-16D3

If you need further information, please do not hesitate to call me. Thank you for your attention to this matter.

Sincerely,

Kathy Turner
Petroleum Engineering Technician

/kt
Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

14-20-H62-3511

6. If Indian, Allottee or Tribe Name

Ute Indian Tribe

7. If Unit or CA, Agreement Designation

14-20-H62-4650

8. Well Name and No.

Ute Tribal 16-08

9. API Well No.

43-013-31853

10. Field and Pool, or Exploratory Area

Antelope Creek

11. County or Parish, State

Duchesne County, UT

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Petroglyph Operating Company, Inc.

3. Address and Telephone No.

P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500

4. Location of Well (Footage, Sec., T., R., or Survey Description)

1974' FNL and 711' FEL
SE NE Sec. 16 T5S R 3W

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other *Commence inj*

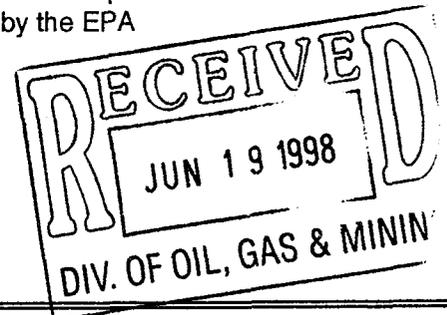
Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has requested approval to inject fluids in the Ute Tribal Well # 16-08 under EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Further to BLM & EPA approval (Permit #UT2736-04414), enclosed are copies of the MIT and Job Summary. Approval to inject fluids was granted by the EPA on 4/24/98. Injection commenced on 4/25/98.



14. I hereby certify that the foregoing is true and correct

Signed *Kathy Turner* Title Petroleum Engineering Tech

Date June 9, 1998

(This space for Federal or State official use)

Approved by _____ Title _____

Date _____

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes 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 in its jurisdiction.

Mechanical Integrity Test
Casing or Annulus Pressure Test for Well UT2736-04322

U.S. Environmental Protection Agency
 Underground Injection Control Program, UIC Implementation Section, 8WM-DW
 999 13th Street, Suite 500, Denver, CO 80202-2466
 This form was printed on 06/10/1996.

EPA Witness: _____ Date 4/2/98

Test conducted by: Chad STEVENSON

Others present: _____

UTE TRIBAL <u>UTE TRIBAL 16-08</u>	as of
ANTELOPE CREEK	NENE
Petroglyph Operating Company, Inc.,	Hutchinson, KS Op ID PTG01
Last MIT: No record / /	
Max Allowed Press psig	199 Max Reported Press psig

Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No

Well injecting during test? NO YES _____ BPD

Initial casing/tubing annulus pressure 960 psig
 Does the annulus pressure build back up? Yes No

TUBING PRESSURE			
Initial	<u>0</u> psig	psig	psig
End of Test	<u>0</u> psig	psig	psig
CASING/TUBING ANNULUS PRESSURE			
Time	Test #1	Test #2	Test #3
0 min	<u>960</u> psig	psig	psig
5	<u>960</u>		
10	<u>960</u>		
15 min	<u>960</u>		
20	<u>960</u>		
25	<u>960</u>		
30 min	<u>960</u>		
<u>12 hrs</u>	<u>960</u>		
<u>24 hrs</u>	<u>960</u>		
Result (circle)	Pass	Fail	Pass
		Pass	Fail

RECEIVED APR 06 1998

PRINTED IN U.S.A.

**CALIBRATED
CHARTS**
BATAVIA, N.Y.

16-08

METER NUMBER

TUBE & GUY SIZE

DATE PUT ON

TIME TAKEN OFF

DATE PUT ON

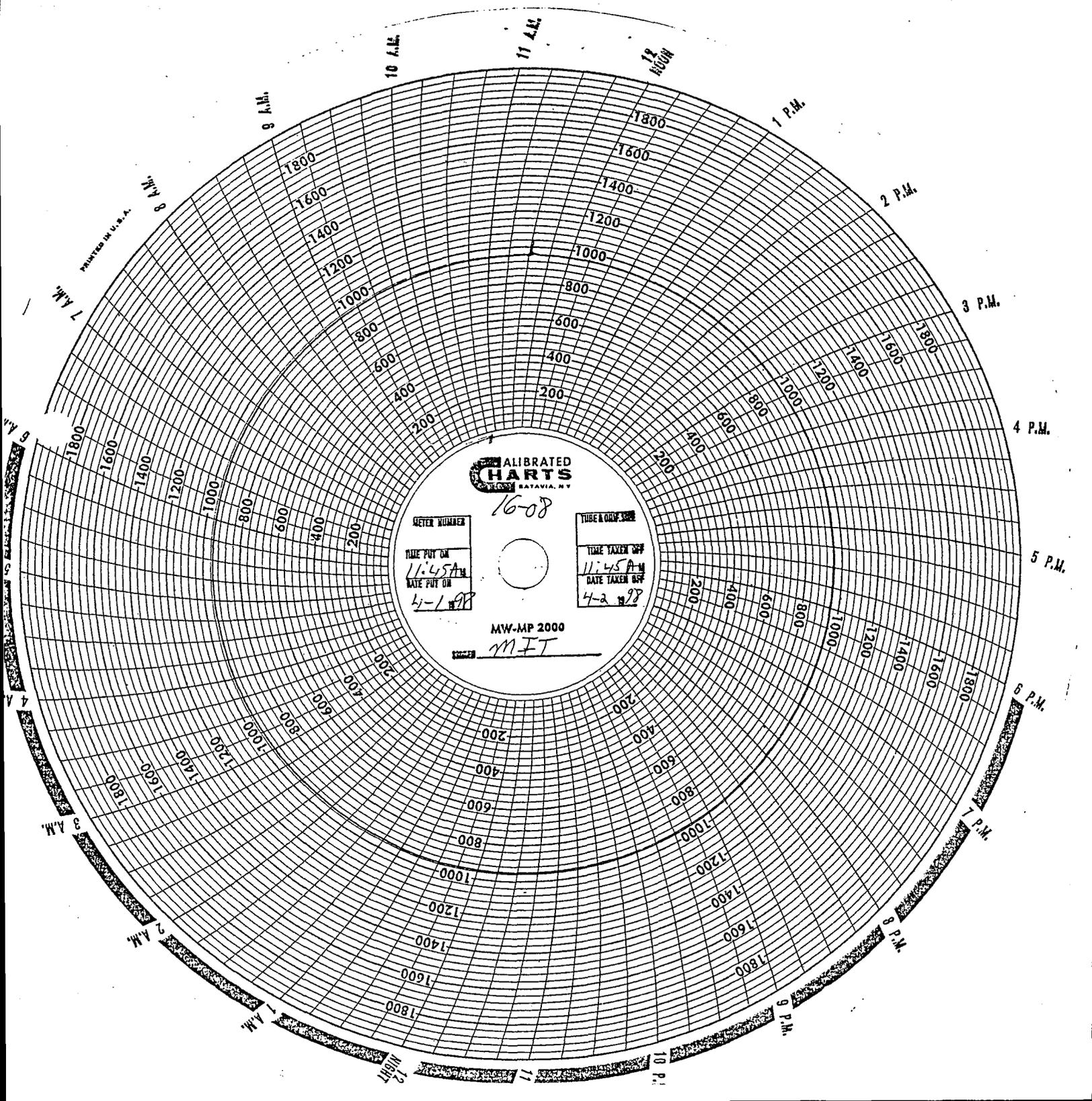
DATE TAKEN OFF

4-1-88

4-2-88

MW-MP 2000

MFT





Petroglyph Energy, Inc.
6209 North Highway 61
Hutchinson, KS 67502

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

316 665-8500
316 665-8577

April 14, 1998

Mr. Chuck Williams
U. S. Environmental Protection Agency
UIC Implementation Section, 8 P2-W-GW
999 18th Street, Suite 5000
Denver, CO 80202-2466

RE: EPA AREA PERMIT NO. UT2736-00000
Ute Tribal #16-08, (Permit No. UT2736-04414)
SE NE, Sec. 16, T5S, R3W, Duchesne County, Utah

Dear Mr. Williams:

In accordance with the regulations stated under Part II.C.2 that pertain to the above-referenced permit, the following conditions have been fulfilled and are enclosed:

1. Well Rework Record (EPA Form 7520-12);
2. The pore pressure of the above-referenced well is 812.7 psi; and
3. Mechanical Integrity Test has been successfully completed and passed.

I am requesting immediate approval (via facsimile) to inject fluids (water and/or gas) at the earliest possible date. If you have any questions or need additional information, please do not hesitate to call.

Sincerely,

PETROGLYPH OPERATING COMPANY, INC.

Kathy Turner
Petroleum Engineering Technician

/kt

Enclosures

WORKOVER REPORT

5/18/98

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.		Elevation: KB 6189
Lease: Ute Tribal 16-08		GL 6179
API #: 43-013-31853	Property: 11620	
Location: 16 - 5 S - 3 W		AFE/EPE Number: 41352
County, St.: Duchesne UT	Event Type: convert to injector	

Activity Date

Activity Description

3/27/98

7AM Hot oiler heat fresh wtr 110 degree mix pkr fluid, pump down csg pressure tbg to 2500 psi set pkr, slack off on tbg 1' 10,000# compression. NU well head. Test csg & pkr to 1200 psi leave pressure on well POOH w/ std valve on sand line, RD rig pump & tanks. 10:00 SWIFN.

90 bbls pkr fluid.

Tubing Detail

KB	10.00	
2 7/8 x 2 3/8 swedge	.70	
139 jts 2 3/8 4.7# J-55	4472.92	
5 1/2 hydro #1 pkr	8.00	4491.62
2 3/8 sub J-55	4.08	
F nipple	1.05	4496.75
compression	-1.00	4495.75

3/26/98

SITP-0

7AM C8.1 zone w/ pkr @ 4964, open well on vacuum check fluid level w/ sand line 1400', swab total 7 runs. 26 total bbls got samples fill tbg w/ K-wtr 19 bbls inj. 6 bpm @ 1800 ISIP 1750 5 min. 1600, 10 min. 1420, 15 min. 1200. Bleed pressure off release tools LD 17 jts POOH LD BVBP & RTTS, PU F nipple, 4' sub, 5 1/2 hydro # 1 pkr RIH 139 jts ND BOPS. RU well head, RIH w/ std valve on sand lines. 5:00 SWIFN.

Tubing Detail

KB	10.00	
139 jts 2 5/8 4.7#	4472	

3/25/98

SITP-100, SICP-100

7AM Blow well dwn RIH from 4515 to 5871 set tools. Isolate on each set perms, breakdown & get injections @ 1800 psi & 1500 psi. ISIP 5, 10, & 15 min. E3.2 5836-42', 2.9 bpm, @ 1800 psi, 1 bpm @ 1500, ISIP 1595, 5 min 1100, 10 min 850, 15 min 670. C8.2 5027-29', 2.3 bpm @ 1800 psi, 1 bpm @ 1500 ISIP 1710, 5 min, 1230, 10 min 970, 15 min 775. C8.14992-94', 1800 psi, 1/2 bpm, RD/inj @ 1500, ISIP 1700, 5 min 980, 10 min 550, 15 min 260. C5, 4791-97', 1800 psi, 4.3 bpm, 1500 psi, 3.4 bpm, ISIP 600, 5 min 0. B11 4552-56', 1800 psi, 3.7 bpm, 1500 psi, 2.5 bpm, ISIP 1250 5 min 565 10 min 57 15 min 0. RD Halli, release tools RIH to C8.1 zone set plug @ 5010 LD 2 jts set pkr @ 4964, swab C8.1 zone catch samples, 5 runs, 15 bbls. Fluid level first run 2000' last run fluid level 3500' trace oil. RU hot oiler mix DN-98chem. 45 gal. w/ 4 bbls pump @ 180 degrees, flush w/ 19.5 bbls mixed w/ 10 gal. DN-98 2100 psi max. shut in w/ pressure. Drain pump & lines. 4:30 SWIFN.

100 bbls pumped

WORKOVER REPORT

5/18/98

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6189

Well: Ute Tribal 16-08

GL 6179

County, St.: Duchesne UT

Activity Date

Activity Description

3/24/98

7:00 Blow well dwn pump 30 bbls dwn csg & 10 bbls dwn tbg K-wtr 160 degrees clean oil off tbg. Pull 31 jts 2 7/8 tbg, change over to 2 3/8 tbg 156 jts. Change over to 2 7/8 eq. RIH w/ 2 7/8 tag fill @ 6058' 25' of fill, LD 7 jts, pump 40 bbls 160 degrees K-wtr dwn csg 20 bbls swn tbg to clean oil off of tbg. POOH LD bit & scraper, PU 5 1/2 BVBP & RTTS RIH to 4590 set plug pull up to 4580, set pkr test tools ? psi, release pkr pull up to 4556. Isolate on perf @ 4552-56' release pkr RIH 1 jt. Release plug pull above perms. Drain pump & lines. 5:30 SWIFN.

100 bbls in well.

3/23/98

SICP-800, SITD-100

7:00 MIRU service rig LD polish rod, unseat pump. Flush tbg w/ 75 bbls prod. Wtr. LD 7/8 & 3/4 rods & pump, pump 25 bbls prod. Wtr dwn csg, ND well head NU BOPS. Release TAC start out of hole. LD 2 7/8 tbg, pump K-wtr dwn tbg & csg to clean tbg. LD tbg 155 jts. Drain pump & lines. 5:30 SWIFN.

130 bbls pumped.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: INDIAN
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: UTE TRIBAL 16-08
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013318530000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1974 FNL 0711 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 16 Township: 05.0S Range: 03.0W Meridian: U	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/29/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

On or around 7/29/2013, depending on equipment availability, we plan to acidize the existing perforations of the well referenced above with 15% Hcl with additives using a Coiled Tubing Unit through the injection tubing. We do not anticipate having to release the injection packer or pull the injection tubing. We plan to rig up the Coiled Tubing Unit and related equipment, run in hole through the injection tubing, circulate and clean the well as needed, establish and injection rate and pump approx 2,000 gal 15% Hcl with additives followed by a fresh water overflush. Then flow the well back to a neutral PH before being returned to injection. Exact volumes and additives will be reported at a later date. This work is being performed to improved the injection rates of the referenced well.

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

Date: July 29, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 7/25/2013	

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: INDIAN
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:
		7. UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: UTE TRIBAL 16-08	
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO	9. API NUMBER: 43013318530000	
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1974 FNL 0711 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 16 Township: 05.0S Range: 03.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/31/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

On 7/31/2013 Petroglyph Operating rigged up a coiled tubing unit, ran in through the injection tubing and circulated and cleaned the well. Heavy scale and hard oil encountered. We then pumped the prescribed Acid treatment followed by a 80 Bbls fresh water over flush. Prescribed treatment was the following: 2000 gal 15% Hcl, 6 gal ASA-300 Anti-Sludge Additive, 10 gal 4097-FE-5 Iron Control, 4 gal 7508-I-24 Acid Corrosion Inhibitor & 4 gal 9408-NE-20 Non Emulsifer. This treatment was performed to improve the injection rates of this well.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 22, 2013**

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 8/21/2013	