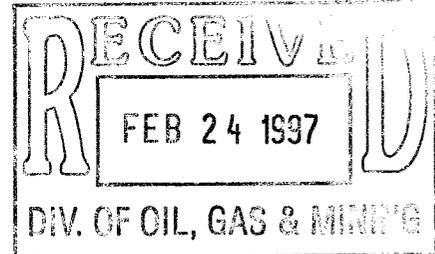


QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	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	Halgaito Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
<i>B mbr</i>	Dakota	Park City	McCracken
<i>D mbr</i>	Burro Canyon	Rico (Goodridge)	Aneth
<i>F mbr</i>	Cedar Mountain	Supai	Simonson Dolomite
<i>Douglas Lake</i>	Buckhorn	Wolfcamp	Sevy Dolomite
<i>B. Amsteyne</i>	JURASSIC	CARBON I FEROUS	North Point
<i>Vacant Basal Carb 6088</i>	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
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	TRIASSIC		

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

February 17, 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 # 16-02
NW/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, appearing to read "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
 660' FNL & 1980' FEL NW/NE
 At proposed prod. zone

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660'
 (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
 6196'

20. ROTARY OR CABLE TOOLS
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6171.6' GRADED GROUND

22. APPROX. DATE WORK WILL START*
 FEBRUARY 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. API WELL NO.
 #16-02

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

CONFIDENTIAL

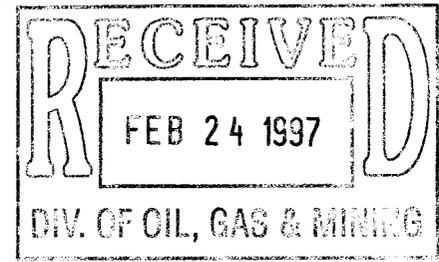
23. PROPOSED CASING AND CEMENTING PROGRAM

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#	6196'	

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



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 2-17-97

(This space for Federal or State office use)

PERMIT NO. 43-1013-31821 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.

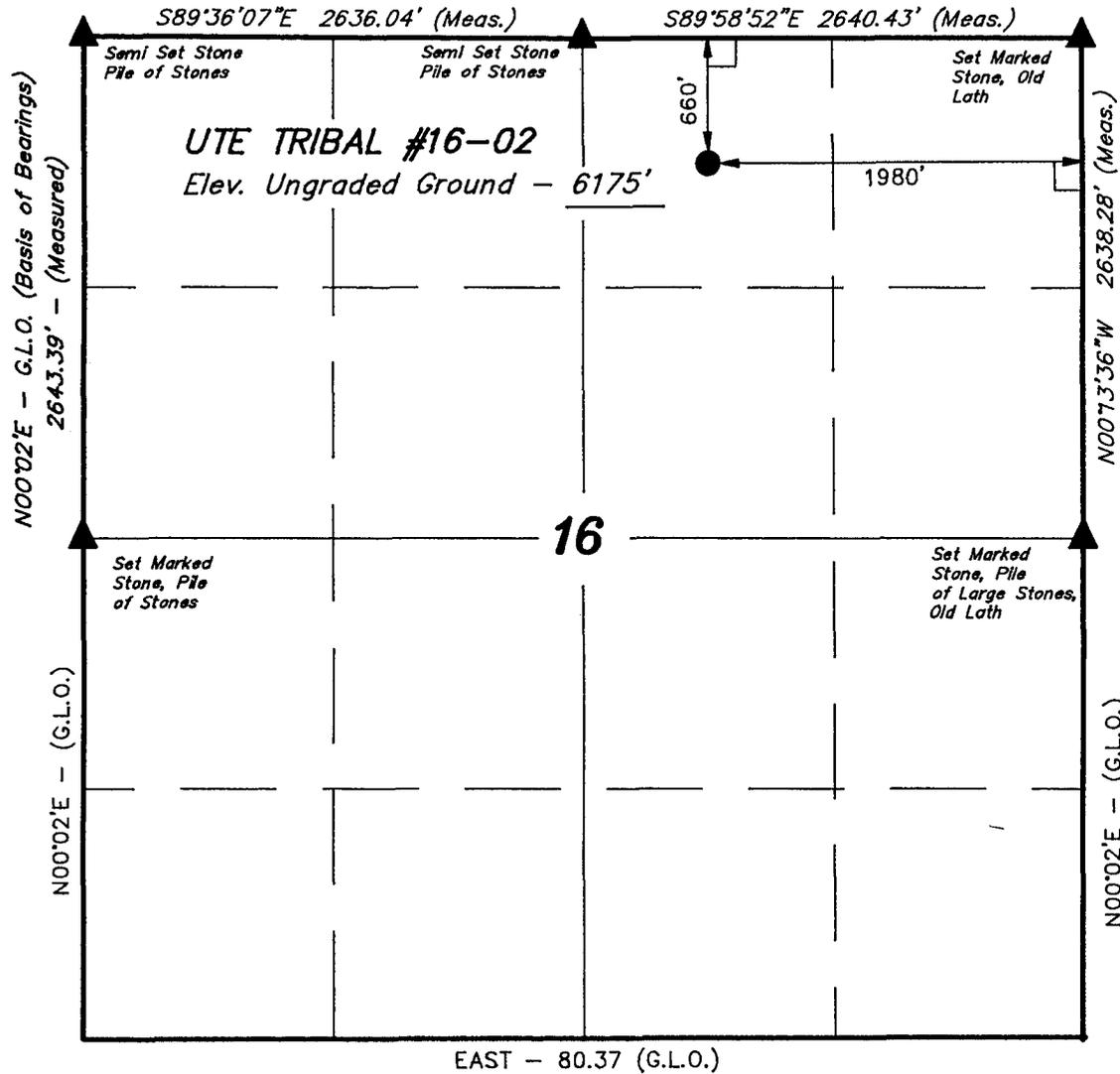
CONDITIONS OF APPROVAL, IF ANY:
 APPROVED BY [Signature] TITLE _____ DATE 2/26/97

*See Instructions On Reverse Side

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

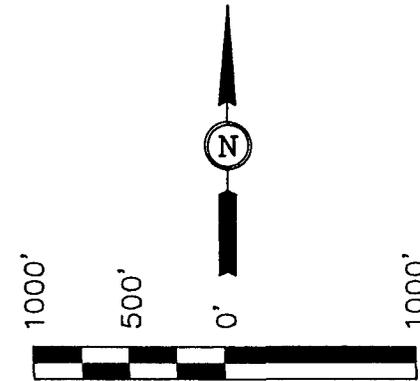
PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #16-02, located as shown in NW 1/4 NE 1/4 of Section 16, T5S, R3W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT ROAD INTERSECTION IN THE SE 1/4 OF SECTION 8, T5S, R3W, U.S.B.&M. TAKEN FROM THE MYTON SW QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6186 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.

SUBJECT: UTE TRIBAL #16-02
 BY: ROBERT J. STACY
 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: 7-18-96	DATE DRAWN: 7-26-96
PARTY G.S. J.K. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	

EIGHT POINT PLAN

UTE TRIBAL #16-02
NW/NE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	3002	3180
"B" Marker	4117	2065
"X" Marker	4588	1594
Douglas Creek	4734	1448
"B" Limestone	5122	1060
B/Castle Peak Limestone	5692	490
Basal Carbonate Limestone	6086	96
Total Depth	6196	-14

Anticipated BHP 2700 psi

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4734	1448
Oil/Gas	B/Castle Peak	5692	490
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' - 6196'	6196'	5 1/2	15.5 #	M-50	4040 PSI	4810 PSI	202,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #16-02
NW/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 #16-02
NW/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.

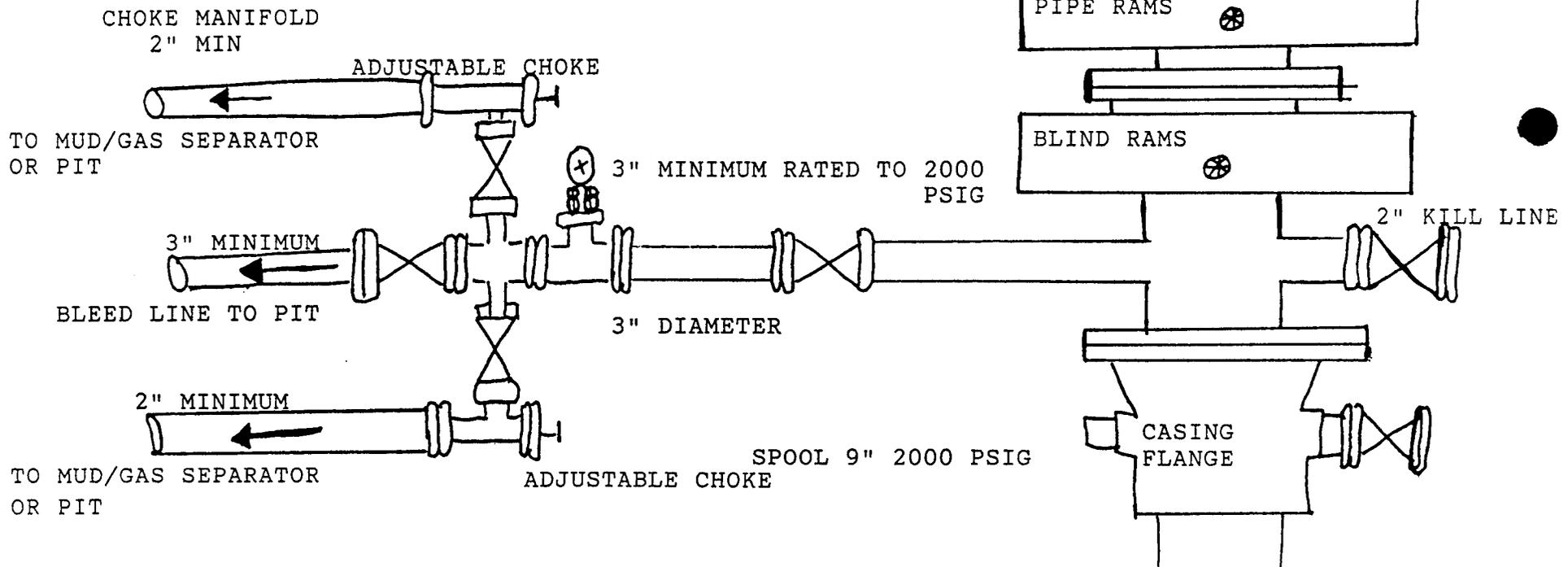
(Attachment: BOP Schematic Diagram)

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 #16-02
Lease Number: BIA 14-20-H62-3511
Location: 660' FNL & 1980' FEL NW/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 20.1 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.1 miles in length. See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & 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 - 1*
- C. Temporarily abandoned wells - 2*
- D. Disposal wells - None.
- E. Drilling wells - None.
- F. Producing wells - 2*
- 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 1100' from proposed location to a point in the SW/SE of Section 9, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing facility at the Ute Tribal #09-15 tank battery. 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 #09-15 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 South side of the location. The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence. The stockpiled topsoil will be stored on the North side.

Access to the well pad will be from the West.

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

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

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

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

X Corner No. 2 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.

2-17-97

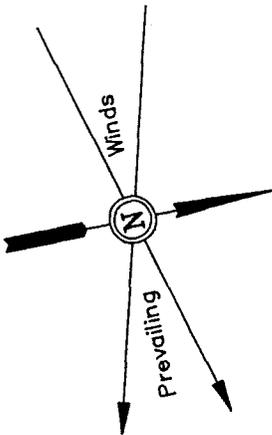
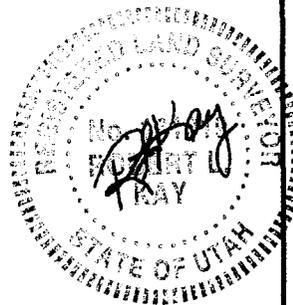
Date



PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

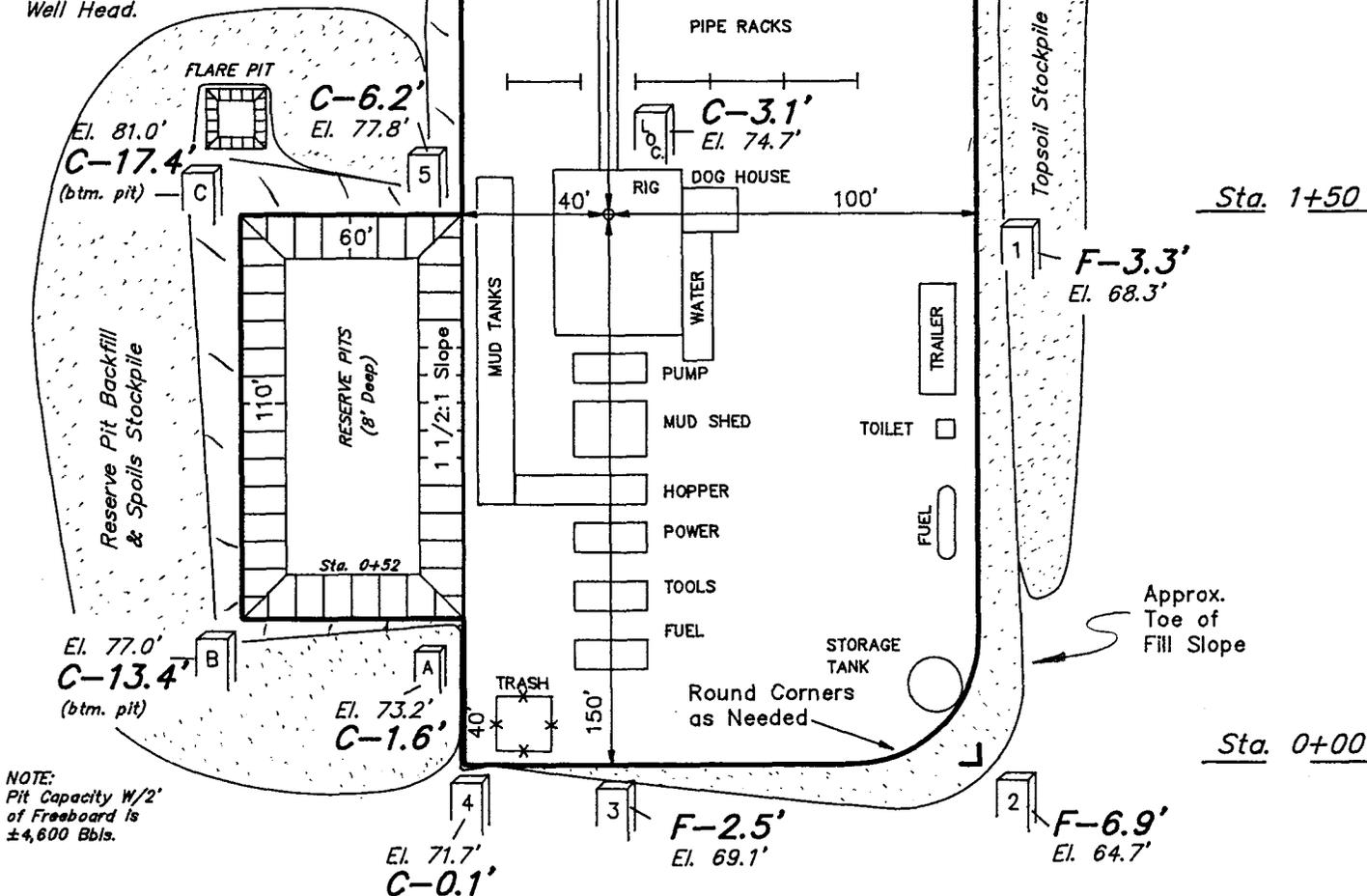
UTE TRIBAL #16-02
SECTION 16, T5S, R3W, U.S.B.&M.
660' FNL 1980' FEL



SCALE: 1" = 50'
DATE: 7-26-96
Drawn By: D.R.B.

NOTE:

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



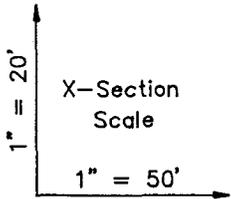
Elev. Ungraded Ground at Location Stake = 6174.7'

Elev. Graded Ground at Location Stake = 6171.6'

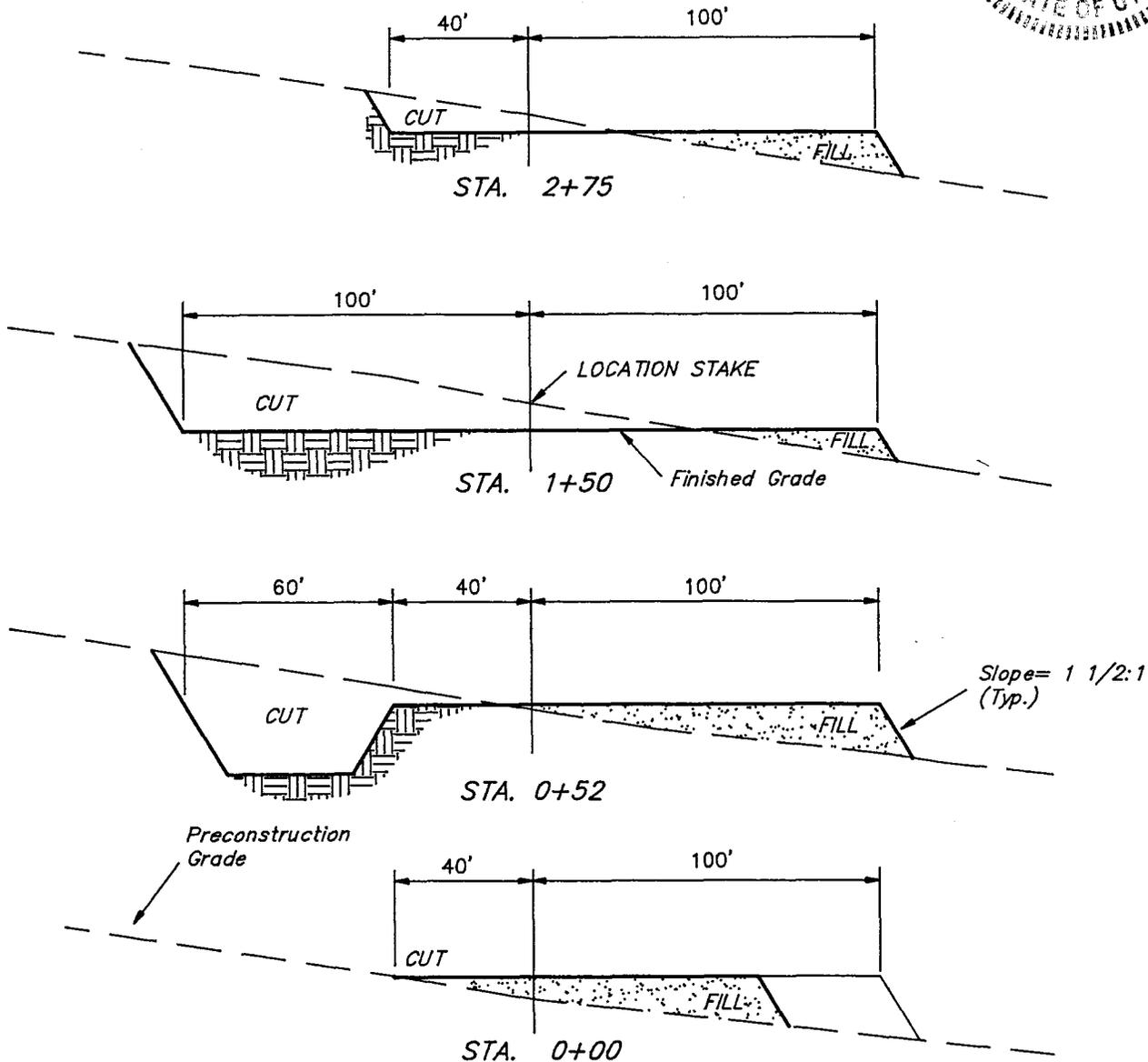
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #16-02
SECTION 16, T5S, R3W, U.S.B.&M.
660' FNL 1980' FEL



DATE: 7-26-96
Drawn By: D.R.B.

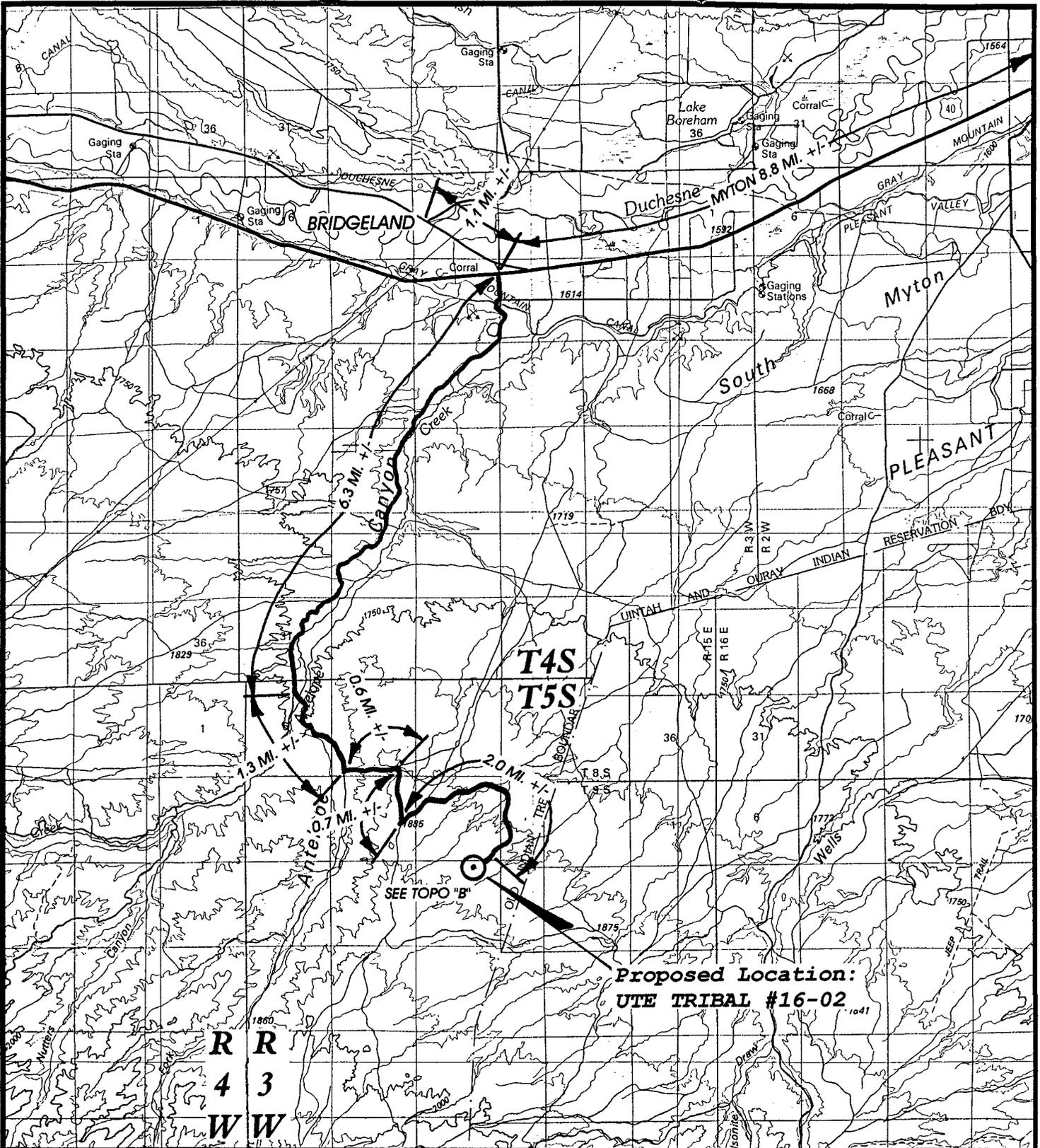


APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 1,670 Cu. Yds.
Remaining Location	= 3,970 Cu. Yds.
TOTAL CUT	= 5,640 CU.YDS.
FILL	= 3,110 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,370 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,370 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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



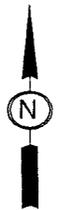
Proposed Location:
 UTE TRIBAL #16-02

R R
 4 3
 W W

UELS

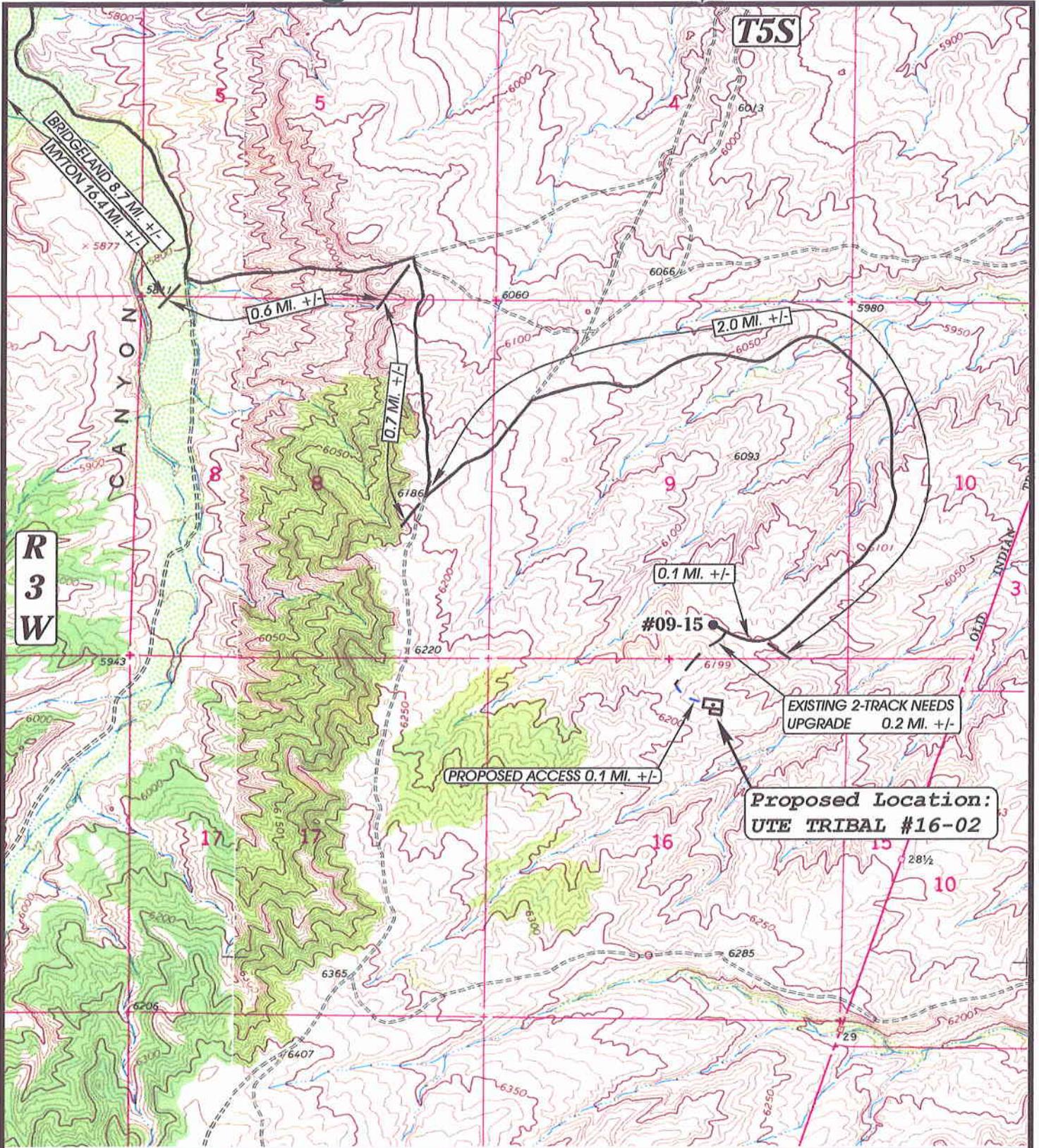
TOPOGRAPHIC
 MAP "A"

DATE: 7-26-96
 Drawn by: D.COX



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-02
 SECTION 16, T5S, R3W, U.S.B.&M.
 660' FNL 1980' FEL



UEIS

**TOPOGRAPHIC
MAP "B"**

**DATE: 7-26-96
Drawn by: D.COX**

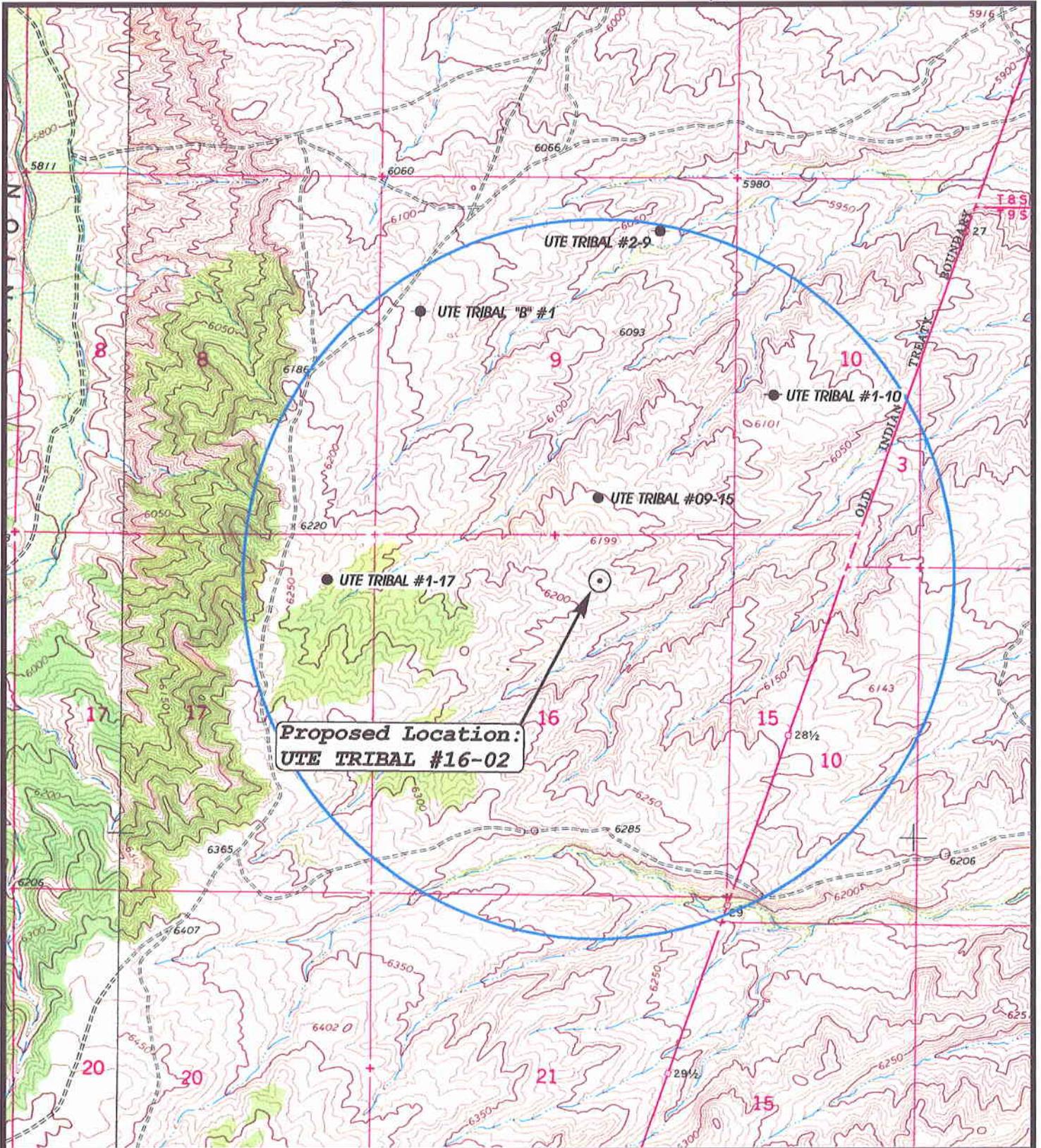
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PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-02
SECTION 16, T5S, R3W, U.S.B.&M.
660' FNL 1980' FEL**

SCALE: 1" = 2000'



**Proposed Location:
UTE TRIBAL #16-02**

LEGEND

- WELLS**
- Water Wells
 - Abandoned Wells
 - Temporarily Abandoned Wells
 - Disposal Wells
 - Drilling Wells
 - Producing Wells
 - Shut-in Wells

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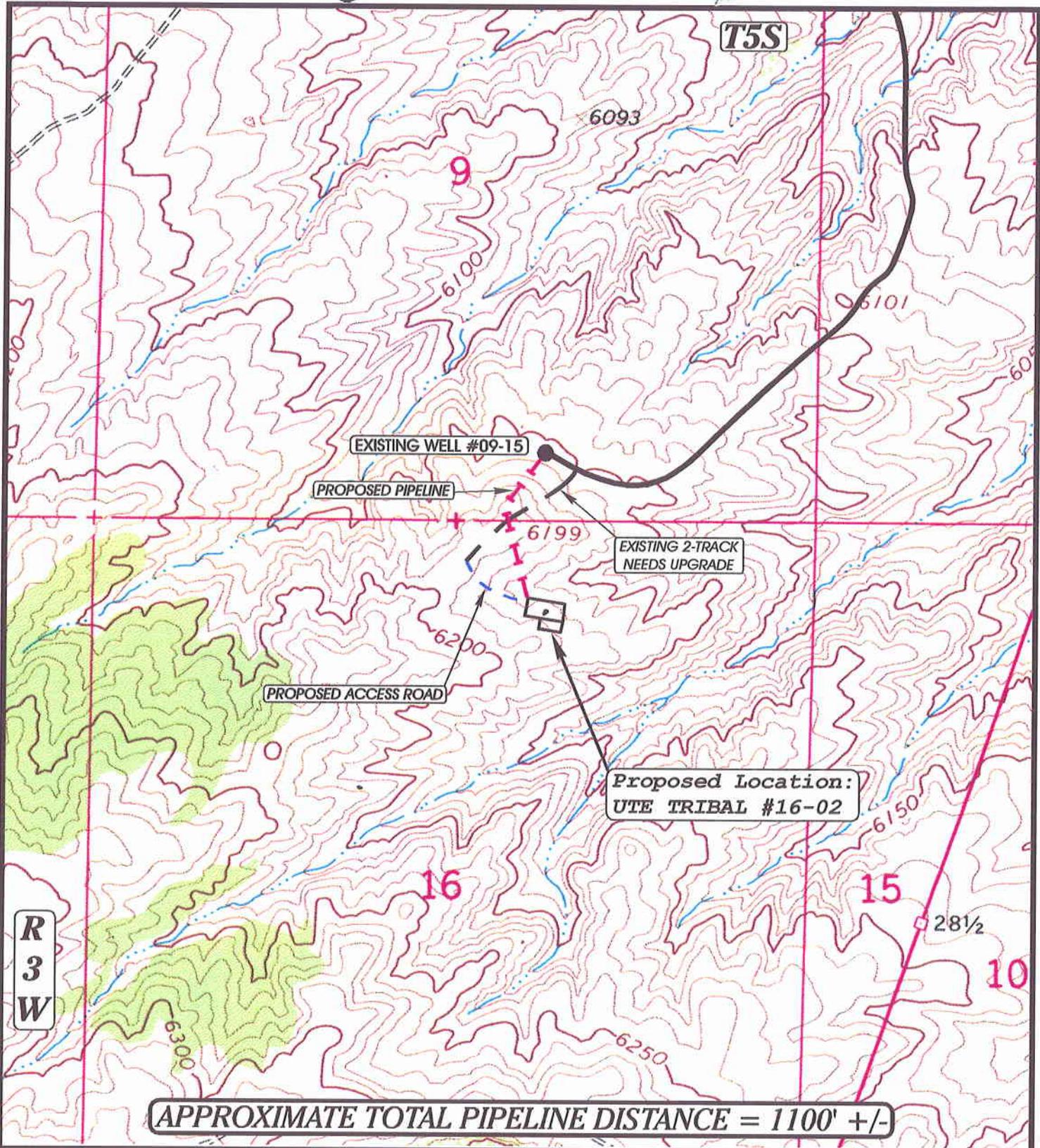


SCALE: 1" = 2000'

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-02
SECTION 16, T5S, R3W, U.S.B.&M.
**TOPOGRAPHIC
MAP "C"**

DATE: 7-26-96
DRAWN: D.COX



**TOPOGRAPHIC
MAP "D"**

UELS

----- Existing Pipeline
 HHHHHHHH Proposed Pipeline



PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-02
 SECTION 16, T5S, R3W, U.S.B.&M.**

*DATE: 7-26-96
 Drawn by: D.COX*

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/24/97

API NO. ASSIGNED: 43-013-31821

WELL NAME: UTE TRIBAL 16-02
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:
NWNE 16 - T05S - R03W
SURFACE: 0660-FNL-1980-FEL
BOTTOM: 0660-FNL-1980-FEL
DUCHESNE COUNTY
ANTELOPE CREEK FIELD (060)

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

PROPOSED PRODUCING FORMATION: GRRV

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

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Federal State Fee
(Number 80 4556)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
(Number 43-1052)
 RDCC Review (Y/N)
(Date: _____)

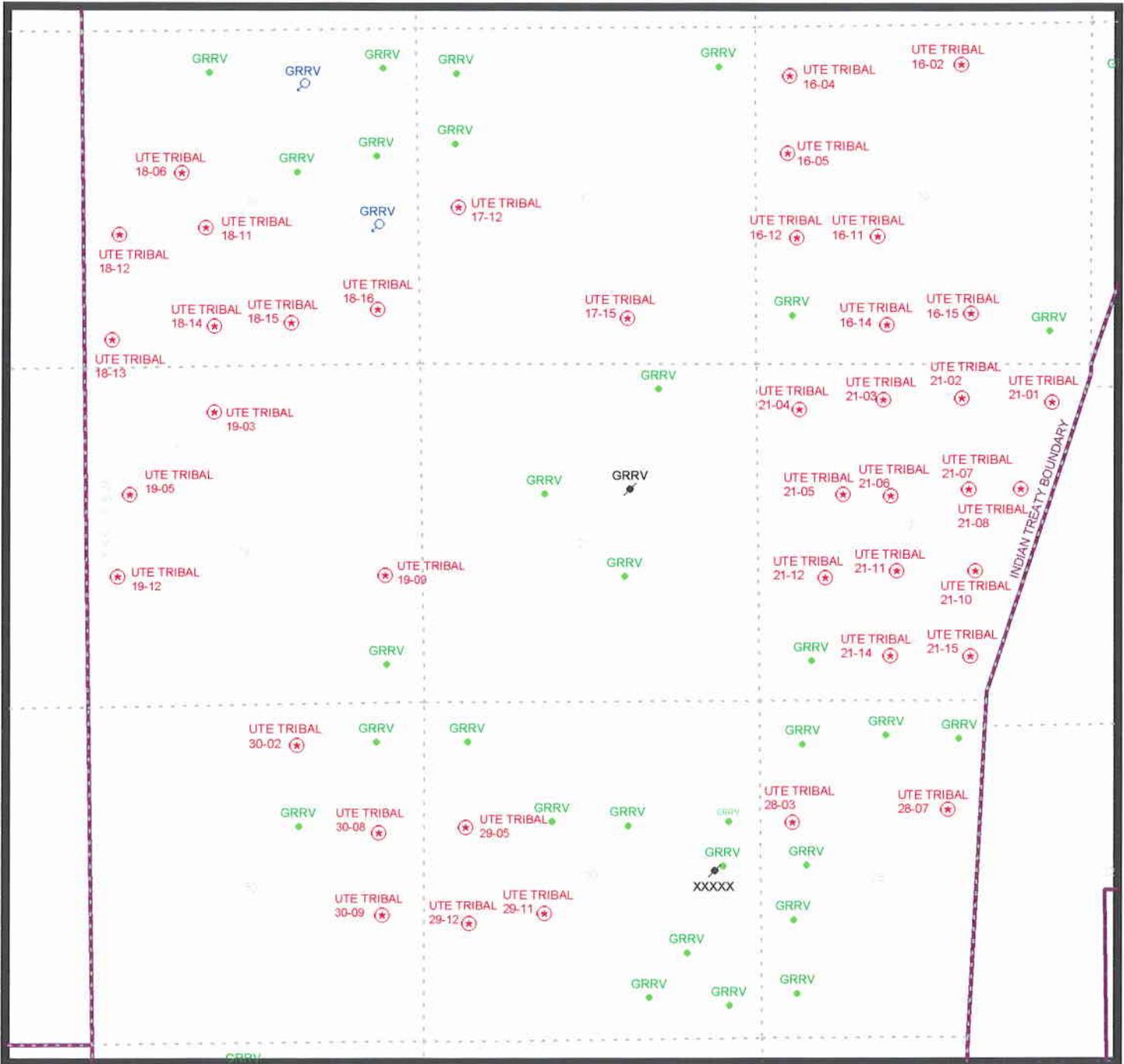
LOCATION AND SITING:

____ 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, & 30 T5S, R3W
COUNTY: DUCHESNE
UAC: R649-3-2**



**PREPARED:
DATE: 25-FEB-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)

February 26, 1997

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

Re: Ute Tribal 16-02 Well, 660' FNL, 1980' FEL, NW 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 43-013-31821.

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 16-02
API Number: 43-013-31821
Lease: 14-20-H62-3511
Location: NW 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: 660' FNL & 1980' FEL NW/NE
 At proposed prod. zone: FEB 18 1997

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660' (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. 6196'

19. PROPOSED DEPTH: 6196'

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6171.6' GRADED GROUND

22. APPROX. DATE WORK WILL START*
 FEBRUARY 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. API WELL NO.
 #16-02

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

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#	6196'	

RECEIVED
FEB 28 1997
DIV. OF OIL, GAS & MINING

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

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

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: 2-17-97

(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:

APPROVED BY: [Signature] TITLE: ACTING Assistant Field Manager Mineral Resources DATE: FEB 21 1997

UT 020-7m-140

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 16-02

API Number: 43-013- 3 / 8 2 /

Lease Number: 14-20-H62-3511

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

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

A. DRILLING PROGRAM

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

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

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

2. Pressure Control Equipment

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

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

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

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. 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.

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

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

6. Notifications of Operations

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

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

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

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

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

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

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

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

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 onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

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

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

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

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

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

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

In the event after-hours approvals are necessary, 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 CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations.

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

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 shall 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.

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.

Before the site is abandoned, the company will be required to restore the well site and rights-of-way 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.

The pipeline will be constructed to lay on the soil surface, and the right-of-way 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 right-of-way. 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 right-of-way will not be used as an access road.

An open drilling system will be used. 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.

The bladed area of the road will be limited to 21 feet in all areas except where deep cuts and fills are required, sharp turns are required or at intersections with other roads. The road is approved with a 30-foot right-of-way. To reduce surface disturbance, the entrance to the proposed will be moved North from where it is staked to a point agreed to where it will exit at the southwest corner of wellsite #9-15.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 16-02

Api No. 43-013-31821

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

Drilling Contractor UNION

Rig # 16

SPUDDED:

Date 6/14/97

Time _____

How ROTARY

Drilling will commence _____

Reported by DEANNA

Telephone # _____

Date: 6/13/97 Signed: JLT



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: KENT STRINGHAM

WELL NAME UTE TRIBAL #16-02 API NO 43-013-31821

QTR/QTR: NW/NE SECTION: 16 TWP: 5S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L. INGRAM TIME: 4:30 PM DATE: 6/18/97

SPUD DATE: DRY: 6/14/97 ROTARY: 6/14/97 PROJECTED T.D.: 6206'

OPERATIONS AT TIME OF VISIT: PULL OUT OF HOLE WITH BIT #3, A

SECURITY S88CFH WITH 3-24 JET NOZZLES (MADE 3761' OF HOLE).

WELL SIGN: Y MUD WEIGHT 8.3+ LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER: _____ BENTONITE: _____ SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: YES,

1700 PSI ON MANIFOLD; 2200 PSI ON ACCUMULATOR.

REMARKS:

DRILL RIG AT 4085'. THEY SET 285' OF 8 5/8" SURFACE PIPE,

24# J55, AT 295'. REPORT OF WATER ENCOUNTER WHILE DRILLING:

DAMP FROM 566' TO 3795' BUT NO FLOW WITH OUT SOAP PUMP. FURTHER,

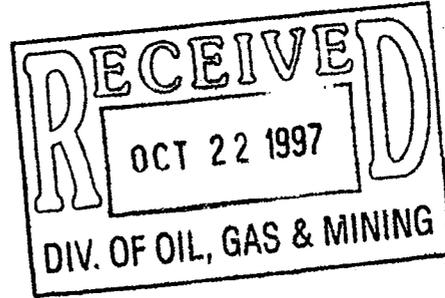
THEY HAD A 1/2" FRESH WATER FLOW AT 3795".

PETROGLYPH Operating Company, Inc.

6209 North Highway 61, Hutchinson, Kansas 67502 • P.O. Box 1839, Hutchinson, Kansas 67504-1839



October 17, 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 are the logs and completion reports for the below listed wells located in Duchesne County, Utah.

<u>Well Name</u>	<u>Log</u>
Ute Tribal 29-12	CNL & AIT
Ute Tribal 16-09	CNL & AIT
Ute Tribal 16-10	CNL & AIT
Ute Tribal 16-02	CNL & AIT 43 013 3182) 7053 R03W16

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

Sincerely,

Judy Gates
Petroleum Geology Technician

OPERATOR Petroglyph Operating Company, Inc. OPERATOR ACCT. NO. N 3800
 ADDRESS P.O. Box 607
Roosevelt, UT 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	APT NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12246	43-013-31855	Ute Tribal 16-03	NENE	16	5S	3W	Duchesne	6-22-97	
WELL 1 COMMENTS: Ute Tribal 16-03 will tie into the tank battery at the Ute Tribal 16-02											
A	99999	12246	43-013-31821	Ute Tribal 16-02	NENE	16	5S	3W	Duchesne	6-14-97	
WELL 2 COMMENTS: tank battery Entities added 10-7-97 Lec											
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)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.
 (3/89)

Diane Bell
 Signature
Operations Coordinator 10/3/97
 Title
 Date
 Phone No. 801-722-2531

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Company, Inc. OPERATOR ACCT. NO. N 3800
 ADDRESS P.O. Box 607
Roosevelt, UT 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	09387	12245	43-013-30761	Ute Tribal 18-01	NENE	18	5S	3W	Duchesne		
WELL 1 COMMENTS: a duplicate Entity number is listed for this battery and the Ute Tribal 18-02 battery											
D	09387	12245	43-013-31533	Ute Tribal 18-07	SWNE	18	5S	3W	Duchesne		
WELL 2 COMMENTS: <i>Entities re-assigned 10-7-97. Lec</i>											
D	09387	12245	43-013-31463	Ute Tribal 07-16	SESE	7	5S	3W	Duchesne		
WELL 3 COMMENTS:											
D	09387	12245	43-013-30881	Ute Tribal 18-08	SENE	18	5S	3W	Duchesne		
WELL 4 COMMENTS: This well was included in the Ute Tribal 18-01 tank battery but has been converted to an injection well											
WELL 5 COMMENTS:											

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

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

(3/89)

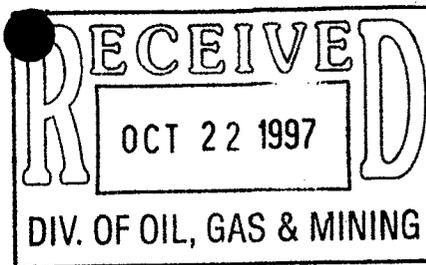
Jenna Bell
 Signature
 Operations Coordinator 10-3-97
 Title Date
 Phone No. 801-722-2531

CONFIDENTIAL

COMPLETION REPORT

Petroglyph Operating Co., Inc.

10/15/97



Operator: Petroglyph Operating Company, Inc.

Lease: Ute Tribal 16-02

API #: 43-013-31821

Location: 16 - 5 S - 3 W

County, St.: Duchesne UT

Property: 50181

Elevation: GL 6172

KB 6182

AFE/EPE Number: 41391

Activity Date	Daily Cost	Activity Description
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8/4/97	\$19,588.00	PERFORATIONS:
		5231-5235 Green River D (03.3) 4 SPF 16 shots
		5215-5219 Green River D (03.3) 4 SPF 16 shots
		5070-5080 Green River C (09.2) 4 SPF 40 shots
		5046-5050 Green River C (08.2) 4 SPF 16 shots
		5000-5002 Green River C (08.1) 4 SPF 8 shots
		4934-4940 Green River C (06) 4 SPF 24 shots
		4790-4795 Green River C (05) 4 SPF 20 shots
		WELLBORE:
		0 RTD
		0 PBTD

SITP 250 psi. SICP 0 psi. Circ conventional w/ hot k-wtr & displ oil. RIH w/ BVBP ret tool to BVBP @ ±4857'. Circ rev & wash off ±3' sand & circ clean. Latch & rel BVBP & POOH. MU tbg prod'n btm hole assy & RIH. Strip off bore & frac flange. Strip on csg flange.

Set TAC & install tbg flange. Land & NU. MU surf flow equip, nipples, valves, etc. XO to rod equip. MU & prime insert pump & single in on rods. Space out & install pony & PR. Seat pump & tst tbg w/ rig pump. Stroke tst w/ insert pmp 1000 psi w/o prssr loss. Land rod string 6" off tag. Clean sand from rig tank. SWIFN.

ROD DETAIL

- 1½" x 30' PR w/ 1-3/4" x 12' liner
- 2' x 7/8" pony (1)
- 4' x 7/8" pony (1)
- 8' x 7/8" pony (1)
- 7/8" slick rods (72)
- 3/4" slick rods w/ guides (136)
- Trico RHAC Insert pump
- 2½" x 1-3/4" x 17" plngr w/ 150" max str 3-cup THD
- 3/4" rods w/ guides (12) w/ 3 slick btwn each

TUBING DETAIL

	LENGTH	DEPTH
Stretch	.90	
KB	10.00	
2-7/8" 6.5# J55 tbg (143 jts)	4475.77	
B2 5½ TAC	2.75	4486.67

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

2-7/8" 6.5# J55 tbg (25 jts)	759.90	
PSN	1.10	5249.32
2-7/8" 6.5# J55 tbg (1 jt)	30.84	
Mech PSN	.70	
Perf Tbg Sub	6.00	
2-7/8" 6.5# J55 tbg (2 jts)	61.48	
2-7/8" collar w/ plug	.75	

FLUID RECOVERY

ZONE BLF:	2122	
ZONE BLFR:	783	
ZONE BLFTR:	1339	
ZONE % REC:	36.9%	
WELL BLF:	2122	
WELL BLFR:	783	
WELL BLFTR:	1339	
WELL % REC:	36.9%	

8/2/97 \$2,129.00

SI tubing & casing press 0 psi. 7:00a.m. with BVBP ret. tool on tubing & EOT @ ± 4513 cont. RIH & locate TOS @ ± 4764'. R.U. circ. equip & establish reverse circ. with 3bbls. k water. Clean out 90' sand to ± 4854' (BCBP @ ± 4857). Pull EOT to ± 4513' & R.U. Equip to swab to recover fluid & test zones C5, C1, & B11. Following frac's completed on 7/31/97. Make 32 runs in 8 hours 20 minutes. 1st run fluid level @ surface. Trace of oil on run #2. 1st measurable oil on run #4 @ 16%. Heavy gas @ end of each run. Recovered 98½bbls. oil, 221½bbls. water, & 319 3/4 total bbls. fluid. Last run fluid level 2000' last run oil cut 40%. R.D. Swab. Prepare to retrieve BVBP. SWIFN. 6p.m.

FLUID RECOVERY

ZONE BLF:	786	
ZONE BLFR:	375	
ZONE BLFTR:	411	
ZONE % REC:	47.7%	
WELL BLF:	2122	
WELL BLFR:	783	
WELL BLFTR:	1339	
WELL % REC:	36.9%	

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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8/1/97	\$2,233.00	
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SICP 50psi. 7a.m. M.U. Ref. tool for bailer RBP & RIH & find TOS @ ± 4524'. R.U. Equip. & establish Circ. reverse. Circ. dwn. 3 ft. & casing, press up to 1500psi. P.U. on tubing to re-gain full returns but tubing dragging 4000 to 5000lbs. over string wgt. Work tubing up & down while cont. to circ. Made upward progress of ± 30ft. press increased gradually to 2000psi. Tubing apparently collapsed at this point as we lost psi to 200# & immediately re-gained full returns. Tubing, however, still dragging & becoming increasingly worse until could move tubing no more up or down. Remove kelly hose from tubing. Torque tubing to right & hold with wrench snubbed to derrick & work tubing until all torque relapsed & were able to make progress upward by continueing this process we were able to work 6 jts. out, at which point by pulling slow, tubing eventually freed up & we were able to POOH. JT. #85 had collapsed 8 to 10" split @ middle of JT. ± 2662' with ± 1600' of tubing left in hole (tubing pulling wet) we circ. out a sand & parrafin plg. with 1000psi until free circ. R.B.I.H with RBP ref. tool & find TOS @ ± 4421'. Established rev. circ. & clean out 149' sand to RBP @ 4570' & circ. Clean. LAtch & release Plug & POOH. & L.D. plug. M.U. 2nd ref. tool for bailer RBP & RIH & locate TOS @ ± 4602' (we had cleaned out to this point yesterday following screen out on zone C). Clean out 98' sand circ. reverst to RBP @ 4700'. Latch & release plug & POOH. MU ref. tool for BVBP & RIH with EOT to ± 4513'. SWIFN.

FLUID RECOVERY

ZONE BLF:	786
ZONE BLFR:	75
ZONE BLFTR:	711
ZONE % REC:	9.5%
WELL BLF:	2122
WELL BLFR:	483
WELL BLFTR:	1639
WELL % REC:	22.8%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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7/31/97	\$44,664.00	<p>PERFORATIONS:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">5231-5235</td> <td style="width: 40%;">Green River D (03.3)</td> <td style="width: 20%;">4 SPF</td> <td style="width: 20%;">16 shots</td> </tr> <tr> <td>5215-5219</td> <td>Green River D (03.3)</td> <td>4 SPF</td> <td>16 shots</td> </tr> <tr> <td>5070-5080</td> <td>Green River C (09.2)</td> <td>4 SPF</td> <td>40 shots</td> </tr> <tr> <td>5046-5050</td> <td>Green River C (08.2)</td> <td>4 SPF</td> <td>16 shots</td> </tr> <tr> <td>5000-5002</td> <td>Green River C (08.1)</td> <td>4 SPF</td> <td>8 shots</td> </tr> <tr> <td>4934-4940</td> <td>Green River C (06)</td> <td>4 SPF</td> <td>24 shots</td> </tr> <tr> <td>4790-4795</td> <td>Green River C (05)</td> <td>4 SPF</td> <td>20 shots</td> </tr> <tr> <td>4615-4622</td> <td>Green River C (01)</td> <td>4 SPF</td> <td>28 shots</td> </tr> </table>	5231-5235	Green River D (03.3)	4 SPF	16 shots	5215-5219	Green River D (03.3)	4 SPF	16 shots	5070-5080	Green River C (09.2)	4 SPF	40 shots	5046-5050	Green River C (08.2)	4 SPF	16 shots	5000-5002	Green River C (08.1)	4 SPF	8 shots	4934-4940	Green River C (06)	4 SPF	24 shots	4790-4795	Green River C (05)	4 SPF	20 shots	4615-4622	Green River C (01)	4 SPF	28 shots
5231-5235	Green River D (03.3)	4 SPF	16 shots																															
5215-5219	Green River D (03.3)	4 SPF	16 shots																															
5070-5080	Green River C (09.2)	4 SPF	40 shots																															
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4790-4795	Green River C (05)	4 SPF	20 shots																															
4615-4622	Green River C (01)	4 SPF	28 shots																															

SICP 0 psi--7:00 a.m. finish preparations for FRAM. MIRU Halib. services w/BVBP @ ±4857 & C5 zone @ 4790-95. Perf'd & broken down w/HCL; frac w/7588 gal. Boragel 30 & 42,200# 20/40 sand in 1 to 10 lb/gal stages--job done @ avg. of 2556 psi. ISIP 2270 psi; 5 min SI 2108 psi; 10 min SI 2024 psi; 15 min. SI 1977 psi; P.F.G. .9. RU Sch. WLS & lubricate in a baker 5 1/2 RBP & set @ 4700'. Press test to 3000 psi lost 0 psi in 5 min. w/4" gun. Perf zone C @ 4615-22 w/4 spf--28 hdes--attempt to break down form @ 3000 psi--unsuccessful. RU Wire line bailer & bail in 15% HCL @ perms. Break down @ 2000 psi. Inject 2 bbls @ 4 bpm @ 1450 psi. ISIP 1150 psi. Frac C1 w/7433 gal. Boragel 30 & 42,000# 20/40 sand, w/only 1139 gal. into flush job screened out w/1 to 6 lb/gal. @ perms. Flow csg back until flow low enough to trip tbg & RIH w/RBP Ret-- tool on tbg. Circ. in 4 stages to displace sand out of well bore. Last circ. @ 4603 & circ. clean. POOH. RIH w/4" gun & 5 1/2 RBP & set RBP @ 4570'. Test to 3000 psi; 0 loss in 5 min. Perf B11 zone @ 4535-45 w/ 4 spf. Attempt to break formation @ 3000 psi -- unsuccessful. Bail in HCL @ perms w/WLS bailer. Break down form @ 1600 psi. Inject @ 4 bpm @ 1400 psi. Frac B11 w/7338 gal. Boragel 30 w/ 44,200# 20/40 sand in 1 to 10 lb/gal stages, w/avg rate of 25.3 bpm @ avg press of 2250 psi. Max rate 26.7 & max press 2778 psi. ISIP 2644; 5 min. SI 230; 10 min SI 1878, 15 min. SI 1503; P.F.G. 1.01 following shut in. Flow back @ ± 60 bph to 0 psi, recovering 60 bbls fluid plus earlier flow recovery 15 bbls = 75 bbls total recovery. SWIFN 9:00 p.m.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7588	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	42200	1-10

PRESSURE/RATE:

Maximum:	2556 psi	2300 BPM
Average:	26 psi	25 BPM

SI PRESSURE:

	TP	CP
5 Min:		2108
10 Min:		2024

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

15 Min: 1977

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7433	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	42000	

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7338	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	44200	1-10

PRESSURE/RATE:

Maximum:	2778 psi	26.7 BPM
Average:	2250 psi	25.3 BPM

SI PRESSURE:	TP	CP
5 Min:		230
10 Min:		1878
15 Min:		1503

FLUID RECOVERY

ZONE BLF:	786
ZONE BLFR:	75
ZONE BLFTR:	711
ZONE % REC:	9.5%
WELL BLF:	2122
WELL BLFR:	483
WELL BLFTR:	1639
WELL % REC:	22.8%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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7/29/97	\$3,775.00	PERFORATIONS:
		5231-5235 Green River D (03.3) 4 SPF 16 shots
		5215-5219 Green River D (03.3) 4 SPF 16 shots
		5070-5080 Green River C (09.2) 4 SPF 40 shots
		5046-5050 Green River C (08.2) 4 SPF 16 shots
		5000-5002 Green River C (08.1) 4 SPF 8 shots
		4934-4940 Green River C (06) 4 SPF 24 shots
		4790-4795 Green River C (05) 4 SPF 20 shots

SITP & SICP 0 psi. EOT @ ±4501'. Cont RIH w/ ret tool for BVBP & find TOS @ ±5009. RU to circ. Rev & clean out 29' sand to BVBP @ ±5027'. Circ clean. Pull EOT to ±4923' RU swab equip to rec fluid & 1st zones C8,1 & C6 potential. Make 24 runs in 6 hrs. FL 1st run ±100'. First measurable oil @ run #8 @ 13% rec 54 BO, 203½ BW. 257½ total bbls.

Last run FL @ ±2600'. Last run oil cut 36%. pH 7. Temp 95°. RD swab equip & RIH & rind 2' sand on BVBP @ ±5027'. Load well bore w/ 56 bbls k-wtr. Circ sand off BVBP & latch & rel POOH & set BVBP w/ top cup @ ±4851. POOH w/ EOT to ±4810 & press tst BVBP to 4000 psi. Lost 0 psi in 5 min. Pmp 6 bbl 15% HCL dwn tbg & follow w/ 28 bbl k-wtr to spot HCL across C5 zone @ 4790-95. POOH w/ tbg & ret tool.

RU SWLS & w/ 4" gun perf zone C5 @ 4790-95 w/ 4 spf (20 holes). RD SWLS. Fill csg 2/ 12 bbl & brkdown form @ 2000 psi. Break back to 1500 psi. Pmp acid away w/ 20 bbl k-wtr @ 2 bpm press starting @ 1500 psi increasing to 1800 psi. ISIP 1400 psi. SWIFN.

Rec swab 203 bbl
 Load hole to circ 56 bbl
 Net rec 147 + prev. rec 408 bbl

FLUID RECOVERY

ZONE BLF:	493
ZONE BLFR:	147
ZONE BLFTR:	346
ZONE % REC:	29.8%
WELL BLF:	1310
WELL BLFR:	408
WELL BLFTR:	902
WELL % REC:	31.1%

FLUID RECOVERY

ZONE BLF:	493
ZONE BLFR:	147
ZONE BLFTR:	346
ZONE % REC:	29.8%
WELL BLF:	1336

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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		WELL BLFR:	408
		WELL BLFTR:	928
		WELL % REC:	30.5%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

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

7/28/97	\$26,396.00	PERFORATIONS:
		5231-5235 Green River D (03.3) 4 SPF 16 shots
		5215-5219 Green River D (03.3) 4 SPF 16 shots
		5070-5080 Green River C (09.2) 4 SPF 40 shots
		5046-5050 Green River C (08.2) 4 SPF 16 shots
		5000-5002 Green River C (08.1) 4 SPF 8 shots
		4934-4940 Green River C (06) 4 SPF 24 shots

SICP 0 psi. RU Halliburton w/ BVBP @ ±5027' & C8.1 perms open & broke dwn w/ HCL. Frac zone w/ 3814 gal Boragel & 13500# 20/40 sand in 1 - 8lb/gal stgs. Job was pumped @ avg rate of 20.5 bpm @ avg psi of 3000 psi. MTR 21.5 bpm. MTP 3310 psi. Press frac gradient .91. RU SWLS & lub in 5½" Baker RBP & set @ 4960' Bleed off csg & press tst RBP to 3000 psi - ok.

RIH w/ 4" gun & perf C6 zone @ 4934-40 w/ 4 spf. Press up 3000 psi on form & held for ± 45 sec. Bled to 1200 psi almost instantly. Inject 4 bpm @ 1350 psi. Csg didn't completely die - SIP would build to 410 psi in 1 min. Det RBP ok. Press originating from form. Frac C6 zone w/ 5947 gal Boragel 30 w/ 25900# 20/40 sand in 1 - 8 lb/gal stgs. During job lost gel so had to cut proposed sand & start flush. ATR 25.4 bpm. ATP 2050 psi. MIR 26.4 bpm. MIP 4000 psi. As job screened out w/ 21600# sand in formation 1 - 8 ppg. RD Schlum. & Hallib. while flowing csg bad @ ± 60 bph until press @ 0 psi.

MU RBP ret tool & RIH to ±4952'. Didn't tag any solid sand - net FR w/ flowing & displ. = 63 bbl. RU to circ. Rev & displ sand in well bore. Circ dwn 8' to RBP @ 4960' & circ btms up. Latch & rel plg & POOH w/ tbg & plg. MU ret tool for BVBP & RIH on 144 jts to ±4501'. Clean sand from rig tank. SWIFN.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	3814	gal

PROPPANT:	Type	Total Lbs: Ramp Range
	20/40 sand	13500

PRESSURE/RATE:

Maximum:	3310 psi	21.5 BPM
Average:	3000 psi	20.5 BPM

SI PRESSURE:

	TP	CP
5 Min:		1820
10 Min:		1593
15 Min:		1420

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	5947	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	25900	

PRESSURE/RATE:

Maximum:	4000 psi	26.4 BPM
Average:	2050 psi	25.4 BPM

FLUID RECOVERY

ZONE BLF:	493
ZONE BLFR:	63
ZONE BLFTR:	430
ZONE % REC:	12.8%
WELL BLF:	1310
WELL BLFR:	261
WELL BLFTR:	1049
WELL % REC:	19.9%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

Activity Date	Daily Cost	Activity Description
7/26/97	\$2,887.00	PERFORATIONS:
		5231-5235 Green River D (03.3) 4 SPF 16 shots
		5215-5219 Green River D (03.3) 4 SPF 16 shots
		5070-5080 Green River C (09.2) 4 SPF 40 shots
		5046-5050 Green River C (08.2) 4 SPF 16 shots
		5000-5002 Green River C (08.1) 4 SPF 8 shots

Est circ. Pmp 6 bbl 15% HCL & follow w/ 29 bbl k-wtr to spot HCL @ C8.1 @ 5000 - 02.
POOH w/ tbg & ret tool. RU SWLS & w/ 4" gun perf C8.1 w 4 spf. RD SWLS. Fill well bore w/
12 bbls k-wtr. Break dwn form @ 2000 psi. Pmp 20 bbl @ 48 bpm @ 1900 psi. ISIP 1750 psi.
NU Halliburton frac valve. SWIFN.

FLUID RECOVERY

ZONE BLF:	779
ZONE BLFR:	38
ZONE BLFTR:	741
ZONE % REC:	4.9%
WELL BLF:	779
WELL BLFR:	198
WELL BLFTR:	581
WELL % REC:	25.4%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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7/25/97	\$2,430.00	
---------	------------	--

SITP 0 psi. SICP 0 psi. RIH w/ RBP @ ±3447'. Cont POOH w/ tbg & RBP. MU 5½" BVBP Ret tool & RIH on 169 jts + 5' to TOS @ ±5273'. POOH w/ EOT @ ± 5018' & PSN @ ±5014'. RU swab equip & swap to rec fluid & tst zone potential. Made 24 runs in 6 hrs & 5 min. Rec 31¼ BO; 161 BW (192¼ BFR). FL 1st run was 400'. Last run 1900'.

1st good sample oil cut was run #16 @ 25%. Oil cut last run @ 30%. RD swab & RIH w/ tbg & ret tool & find TOS @ ±5237'. Fill well bore w/ 40 bbl K-water & rev circ. Clean out 149' sand to BVBP @ ± 5386'. Circ clean (lost 20 BW during clean out). Latch & rel BVBP & pull to ±5027' & set. Pull EOT to ±5012' & test BVBP to 4000 psi. Lost 0 psi 5 min. SWIFN.

Rec swabbing	161 bbl
Fill well bore to circ	40 bbl
Lost while circ	20 bbl
Net rec	101 bbl

FLUID RECOVERY

ZONE BLF:	779
ZONE BLFR:	198
ZONE BLFTR:	581
ZONE % REC:	25.4%
WELL BLF:	779
WELL BLFR:	198
WELL BLFTR:	581
WELL % REC:	25.4%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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7/24/97	\$36,922.00	PERFORATIONS:
		5231-5235 Green River D (03.3) 4 SPF 16 shots
		5215-5219 Green River D (03.3) 4 SPF 16 shots
		5070-5080 Green River C (09.2) 4 SPF 40 shots
		5046-5050 Green River C (08.2) 4 SPF 16 shots

SICP 0 psi. RU HES & frac D3.3 @ 5215 - 5219 & 5231 - 5245 w/ 12835 gal Boragel 30 & 42200# 20/40 sand. Job pumped @ ATR @ 31 bpm. ATP @ 2500 psi. MTR @ 31.5 bpm. MTP @ 3000 psi. Sand was pumped in 1 to 10 ppg stages. ISIP @ 2588 psi. 5 min @ 2397 psi. 10 min @ 2204 psi. 15 min @ 1923 psi. PFG = .93.

RU SWLS & lub in a Baker 5 1/2" RBP & set w/ elements @ 5130'. Bleed off psi & pressure test RBP to 3000 psi. 0 loss in 5 min. RIH w/ 4" gun & perf C9.2 zone @ 5070 - 5080' w/ 4 spf (40 holes) & C8.2 zone @ 5046 - 5050' w/ 4 spf (16 holes). Attempt to break frm @ 3000 psi - unsuccessful. Had some bleed off but would not break. RIH w/ wireline bailer & dump 15% HCL @ perms. Bread down @ 2000 psi & inject @ 4 bpm @ 1400 psi.

Frac C9.2 & C8.2 w/ 18513 gal Boragel 30 & 75200# 20/40 sand in 1 to 10 ppg stages. Frac done w/ ATR @ 30 bpm. ATP @ 1750 psi. MTR @ 31.6 bpm. MTP @ 2940 psi. ISIP @ 2588 psi. 5 min @ 2380 psi. 10 min @ 2194 psi. 15 min @ 1777 psi. PFG = .94. Following 15 min SI. Flowback thru adj choke @ ±60 bph to 0 psi. Rec 72 bbls fluid.

MU ret tool for RBP & RIH w/ well still flowing w/ some sand in fluid. Rec ±25 bbls flowing & displ while RIH. Find TOS @ 5042'. Estab circ. Rev & clean out sand to RBP @ 5130'. Circ clean latch & rel RBP & POOH w/ EOT @ ±3447'. SWIFN.

Recovery: Flow	72 bbls
Flow & displace	25 bbls
Total	97 bbls

STIMULATION TREATMENT:

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	12835	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	42200	1-10

PRESSURE/RATE:

Maximum:	3000 psi	31.5 BPM
Average:	2500 psi	31 BPM

SI PRESSURE:	TP	CP
5 Min:		2508

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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10 Min:	2204
15 Min:	1923

FLUID RECOVERY

ZONE BLF:	332
WELL BLF:	332

STIMULATION TREATMENT:

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	18513	gal

PROPPANT:

Type	Total Lbs:	Ramp Range
20/40 sand	75200	1-10

PRESSURE/RATE:

Maximum:	2940 psi	31.6 BPM
Average:	1750 psl	30 BPM

SI PRESSURE:

	TP	CP
5 Min:		2380
10 Min:		2194
15 Min:		1777

FLUID RECOVERY

ZONE BLF:	779
ZONE BLFR:	97
ZONE BLFTR:	682
ZONE % REC:	12.5%
WELL BLF:	779
WELL BLFR:	97
WELL BLFTR:	682
WELL % REC:	12.5%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: GL 6172

Well: Ute Tribal 16-02

KB 6182

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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7/23/97

\$5,043.00

PERFORATIONS:

5231-5235 Green River D (03.3)

4 SPF 16 shots

5215-5219 Green River D (03.3)

4 SPF 16 shots

BVBP set & tstd @ ± 5398 & EOT @ 5246', est circ dwn tbg. Pump 250 gal 15% HCL & spot across D3.3 @ 5215 - 5219' w/ 30 bbls K wtr. POOH w/ tbg & ret tool.

RU SWLS break dwn form @ 1800 psi. Pump away acid w/ 20 bbls K wtr @ 4 bpm spi start @ 1200 psi increase to 1800 psi. ISIP 1400 psi. SWIFN. Move & transport tbg & frac tanks.

7/22/97

\$2,640.00

WELLBORE:

6196 RTD

6156 PBTD

6183 CSA

MIRU. Install frac flange. NU BOPE. RU pump lines & test csg, flange, BOPE to 4500 psi. Re-tighten frac flange - slight leak. Cross over to tbg equip. Re-dress & MU 5 1/2" Halliburton BVBP. Count, tally & single in tbg. Sept top cup BVBP @ ± 5398 '. Pull EOT to ± 5246 '. RU & circ old oil out of tbg. Press test BVBP to 4500 psi. lost 25 psi 5 min thel held. SWIFN.

Cumulative Cost: \$148,707.00

Days Since Start: 14

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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 16-02

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 660' FNL 1980' FEL
At top prod. interval reported below

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

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14. PERMIT NO. 43-013-31821	DATE ISSUED 2/26/97	12. County or Parish Duchesne	13. State Utah
--------------------------------	------------------------	----------------------------------	-------------------

15. DATE SPUDDED 6/14/97	16. DATE T.D. REACHED 6/21/97	17. DATE COMPLETED (Ready to prod.) 8/4/97	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6172' GL	19. ELEV. CASINGHEAD 6172'
-----------------------------	----------------------------------	---	---	-------------------------------

20. TOTAL DEPTH, MD & TVD 6196' RTD	21. PLUG BACK T.D., MD & TVD 6156'	22. IF MULTIPLE COMPL., HOW MANY* 7	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, ALT 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#	271'	12-1/4"	165 sxs Type 5	
5-1/2"	15-5#	6184'	7-7/8"	95 sxs Highfill	
				380 sxs Thixotropic	

LINER RECORD				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.		
D3.3 5215-19' (16 shots)	C5 4790-95' (20 shots)		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
D3.4 5231-35' (16 shots)	C1 4615-22' (28 shots)		5215-19' & 5231-45'	12835 gal Boragel, 42200# 20/40 prop	
C9.2 5070-80' (40 shots)	B11 4535-45' (40 shots)		5070-80' & 5046-50'	18513 gal Boragel, 75200# 20/40 prop	
C8.2 5046-50' (16 holes)			5000-02'	3814 gal Boragel, 13500# 20/40 prop	
C8.1 5000-02' (8 shots)			4934-40'	5947 al Boragel, 21600# 20/40 prop	
C6 4934-40' (24 shots)			4790-95'	7588 gal Boragel, 42200# 20/40 prop	

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33. PRODUCTION							
DATE FIRST PRODUCTION 9/12/97		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) 2 1/2" x 1-3/4" x 17' 40 ring RHAC pump				WELL STATUS (Producing or shut-in) producing	
DATE OF TEST 9/17/97	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL. 85	GAS - MCF. 20	WATER - BBL. 73	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE 1050	CALCULATED 24 HR. RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	

CONFIDENTIAL
PERIOD
EXPIRES
ON 9-4-98

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY
Dave Schreiner

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
Signed Wesley 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 and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
NOV 28 1997
DIV. OF OIL, GAS & MINING

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WELL COMPLETION 16-02

(continued)

32.

4615-22'	7433 gal Boragel, 42000# 20/40 prop
4535-45'	7338 gal Boragel, 44200# 20/40 prop

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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	4098		CONFIDENTIAL			
X Marker	4590					
Y Marker	4627					
Douglas Creek	4733					
B Limestone	5106					
Basal Carbonate	6088					

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 16-02

9. API Well No.
43-013-31821

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)
**660' FNL & 1980' FEL
NW NE Sec. 16-T5S-R3W**

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

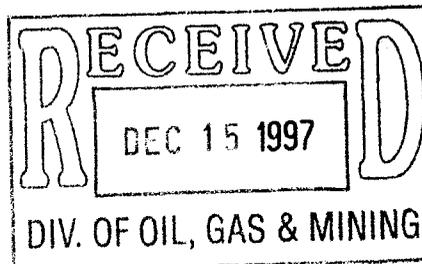
- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other _____
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(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 submitted an application for a UIC permit to convert the Ute Tribal 16-02 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 12-10-97

(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

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: UTE TRIBAL 16-02

API number: 43-013-31821

2. Well Location: QQ NWNE Section 16 Township 5B Range 3W County Duchesne

3. Well operator: PETROGLYPH

Address: P. O. Box 607

Roosevelt, UT 84066

Phone: 801-722-2531

4. Drilling contractor: Union Drilling

Address: P. O. Drawer 40

Buckhannon, WV 26201

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	324	DRY	
324	566	DRY DRY	
566	3795	DAMP (NO SAMPLE)	NO Flow with out soap pump
3795		1/2 x 7 STREAM	FRESH

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: 6-19-97

Name & Signature: [Signature] Title: DRILLER

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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. 14-20-H62-3511
2. Name of Operator Petroglyph Operating Company, Inc.	6. If Indian, Allottee or Tribe Name Ute Indian Tribe
3. Address and Telephone No. P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500	7. If Unit or CA, Agreement Designation 14-20-H62-4650
4. Location of Well (Footage, Sec., T., R., or Survey Description) 660' FNL & 1980' FEL NW NE Sec. 16-T5S-R3W	8. Well Name and No. Ute Tribal 16-02
	9. API Well No. 43-013-31821
	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	TYPE 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 16-02 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 12-24-97

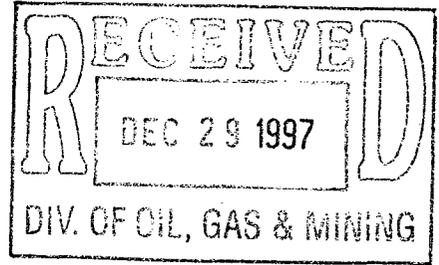
(This space for Federal or State official use)

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



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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. 14-20-H62-3511
2. Name of Operator Petroglyph Operating Company, Inc.		6. If Indian, Allottee or Tribe Name Ute Indian Tribe
3. Address and Telephone No. P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500		7. If Unit or CA, Agreement Designation 14-20-H62-4650
4. Location of Well (Footage, Sec., T., R., or Survey Description) 660' FNL & 1980' FEL NW NE Section 16-T5S-R3W		8. Well Name and No. Ute Tribal 16-02
		9. API Well No. 43-013-31821
		10. Field and Pool, or Exploratory Area Antelope Creek
		11. County or Parish, State Duchesne County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" 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 checked="" type="checkbox"/> Other <u>Commence inj</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input 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 requested approval to inject fluids in the Ute Tribal #16-02 under EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

Further to BLM & EPA approval (Permit #UT2736-04412), enclosed are copies of the MIT and Job Summary. Approval to inject fluids was granted by the EPA on 3/16/98. Injection commenced on 3/20/98.

RECEIVED
JUN 19 1998
DIV. OF OIL, GAS & MINING

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:

Mechanical Integrity Test Casing or Annulus Pressure Test for Well UT2736-04412

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466
This form was printed on 06/10/1996.

EPA Witness: _____ Date 2/25/98

Test conducted by: Chad Stearns

Others present: _____

UTE TRIBAL <u>16-02</u>	as of	
ANTELOPE CREEK	NW NE	
Petroglyph Operating Company, Inc., Hutchinson, KS		Op ID PTC01
Last MIT: No record / /		
Max Allowed Press	psig	199
Max Reported Press	psig	

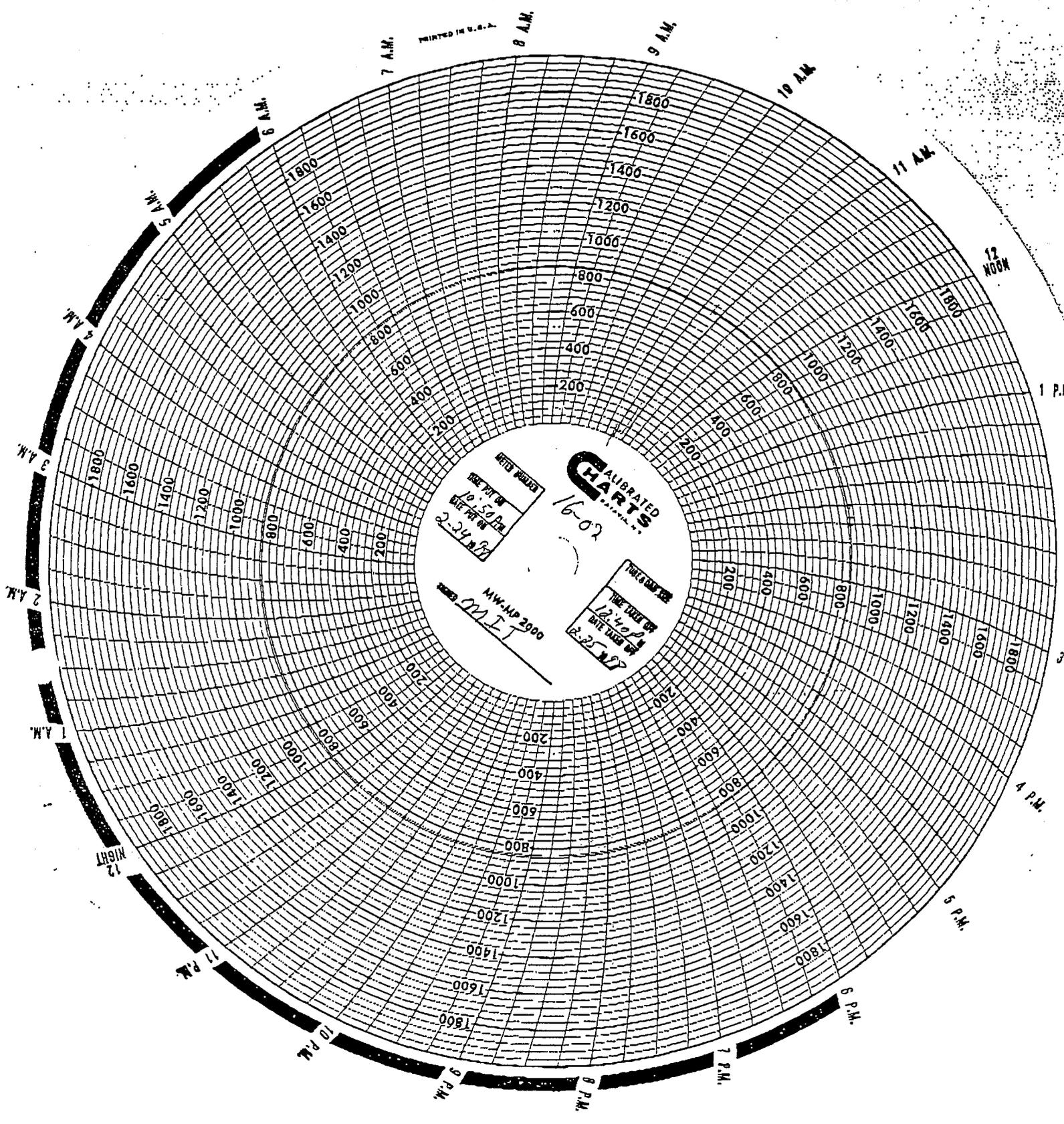
Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No

Well injecting during test? NO YES _____ EPD

Initial casing/tubing annulus pressure 800 psig
 Does the annulus pressure build back up? Yes No

TUBING PRESSURE			
Initial	psig	psig	psig
<u>0</u>			
End of Test	psig	psig	psig
<u>0</u>			
CASING/TUBING ANNULUS PRESSURE			
Time	Test #1	Test #2	Test #3
0 min	<u>800</u> psig	psig	psig
5	<u>800</u>		
10	<u>800</u>		
15 min	<u>800</u>		
20	<u>800</u>		
25	<u>800</u>		
30 min	<u>800</u>		
<u>24 hrs</u>	<u>800</u>		
Result (circle)	Pass	Fail	Pass
		Fail	Fail

PRINTED IN U.S.A.



WITH PAPER
 THE TUBE BY
 12.40 P.M.
 DATE TAKEN BY
 12-24-97
 16-02
 THE TUBE BY
 12.40 P.M.
 DATE TAKEN BY
 12-24-97
 M.M.I.T.
 M.M.I.P. 2900

Copy sent 3-16-98

PETROGLYPH



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

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

316 665-8500
316 665-8577 fax

March 5, 1998

Mr. Chuck Williams
U. S. Environmental Protection Agency
UIC Implementation Section, 8 P2-W-GW
999 18th Street, Suite 500
Denver, CO 80202-2466

**RE: EPA AREA PERMIT NO. UT2736-00000
Ute Tribal #16-02, (Permit No. UT2736-04412)
NW 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 3351 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.

A handwritten signature in cursive script that reads "Kathy Turner".

Kathy Turner
Petroleum Engineering Technician

/kt

Enclosures

WORKOVER REPORT

5/18/98

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.		Elevation: GL 6172
Lease: Ute Tribal 16-02		KB 6182
API #: 43-013-31821	Property: 11560	
Location: 16 - 5 S - 3 W		AFE/EPE Number: 41391
County, St.: Duchesne UT	Event Type: convert to injector	

Activity Date	Activity Description
---------------	----------------------

2/20/98

7:00 Circ hole w/prod water, heat fresh water add chem. Pump pkr fluid down csg, pressure up tbg to 2500 psi, set pkr slack off tbg 10,000# compression test csg 1200 psi, leave pressure on RD rig, pump & tanks. 12:00.

2/19/98

7:00 OSID flush tbg w/20 bbls K water, pump 50 bbls down csg, LD 2 7/8 tbg 106 jnts. PU 5 1/2 Hydro #1 pkr, PU 2 3/8 tbg, breaking collars & teflon dope all breaks, 136 jnts. ND BOPS, NU well head. Drain pump & lines. SWIFN 5:00.

Tubing detail	KB	10.00
	x/over 2 3/8 x 2 7/8	.85
	136 jnts	
	5 1/2 Hydro #1 pkr	8.00
	2 3/8 sub J55	3.95
	F nipple	.92

4466.75

2/18/98

7:00 - hot oil csg w/100 bbls K water 250 deg, try to flush tbg @ 200 psi, would not flush. LD polish rod - LD rods till we were pulling to much on rods - 20,000#. RU pump, try to circ well w/150 bbls K water 140 deg, LD the rest of rods & pump. ND well hea, NU BOPS, circ well w/K water to clean well bare of oil and gas. Release TAC, LD 65 jnts 2 7/8 tbg. Drain pump & lines. SWIFN 5:30.

2/17/98

1:00 MIRU, unseat pump, tbg would not flush @ 2000 psi. Pump 55 bbls prod water 250 deg down csg, try to flush @ 2000 psi, would not flush. LD 5 rods, try to flush 2500 psi, would not flush. SWIFN 6:00.