

001

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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

3a. Address **P.O. BOX 607,
ROOSEVELT, UT 84066**
3b. Phone No. (Include area code)
(435)722-2531

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface **2434' FSL, 2520' FWL** *565710 X NE/SW*
4432790 Y 40.044681
At proposed prod. Zone *110.229720*

5. Lease Serial No.
14-20-H62-3511
6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE
7. If Unit or CA Agreement, Name and No.
UTE TRIBAL
8. Lease Name and Well No.
UTE TRIBAL 16-11G
9. API Well No.
43013-32727

10. Field and Pool, or Exploratory
ANTELOPE CREEK
11. Sec., T., R., M., or Blk. and Survey or Area
**SEC. 16, T5S, R3W,
U.S.B.&M.**

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

15. Distance from proposed* location to nearest property or lease line, ft. **2434'**
(Also to nearest drig. Unit line, if any)
16. No. of Acres in lease
640
17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See Topo Man "C"**
19. Proposed Depth
6200'
20. BLM/BIA Bond No. on file
BO 4556

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6238.1 FEET GRADED GROUND
22. Approximate date work will start*
UPON APPROVAL
23. Estimated duration
45 DAYS

24. Attachments

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

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

25. Signature *[Signature]* Name (Printed/Typed) **Ed Trotter** Date **November 23, 2004**

Title
Agent

Approved by (Signature) *[Signature]* Name (Printed/Typed) **BRADLEY G. HILL
ENVIRONMENTAL SCIENTIST III** Date **NOV 26 2004**
Title Office **DIV. OF OIL, GAS & MINING**

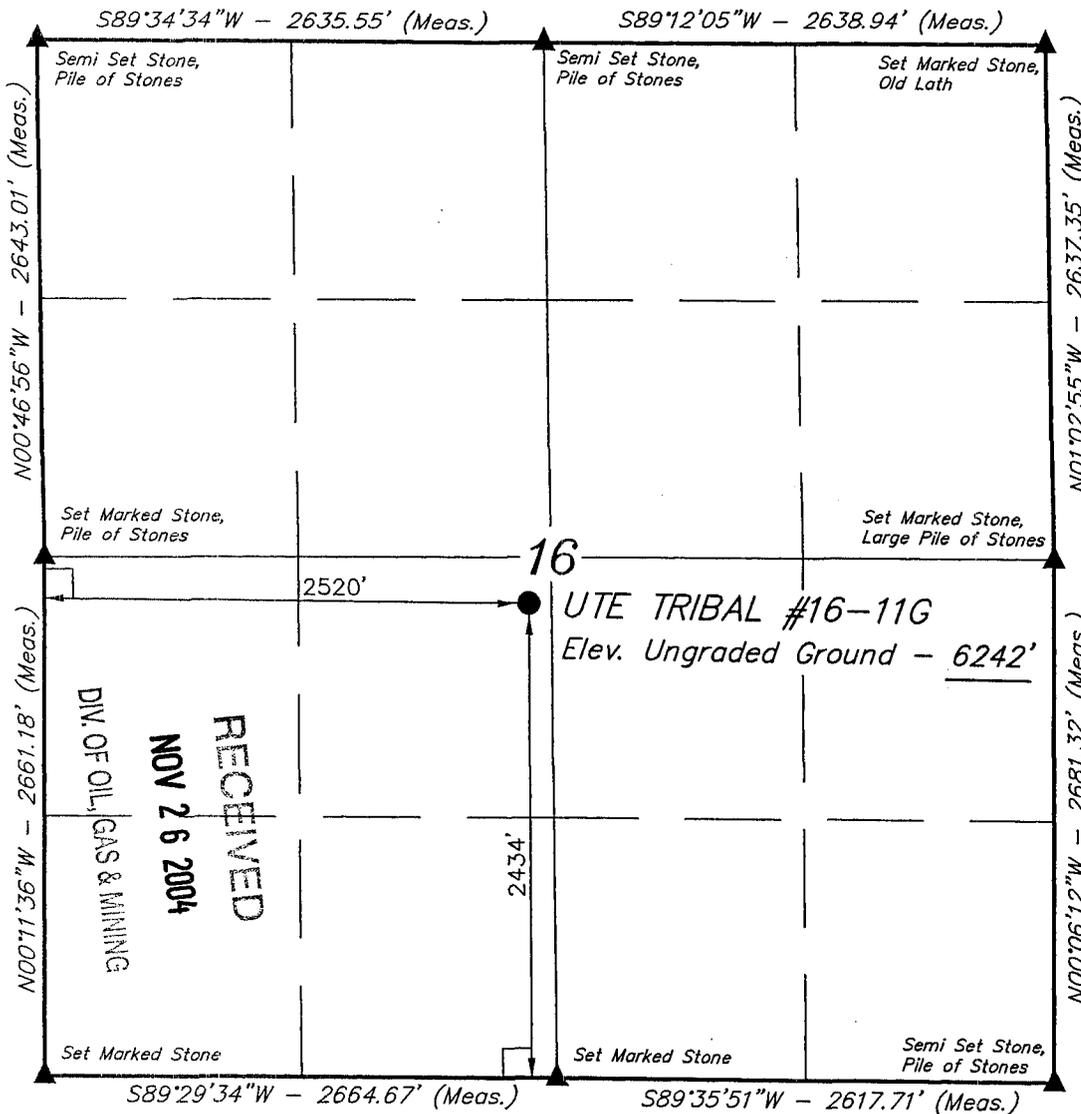
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of Approval, if any, are attached.

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

*(Instructions on reverse)

**Federal Approval of this
Action is Necessary**

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



PETROGLYPH OPERATING CO., INC.

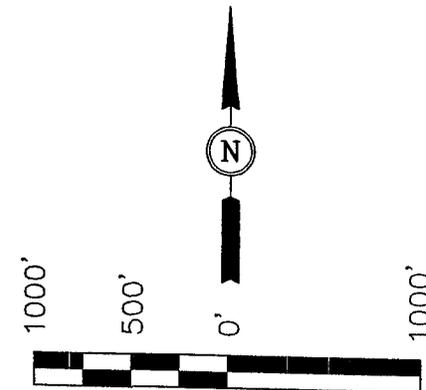
Well Location, UTE TRIBAL #16-11G, located as shown in the NE 1/4 SW 1/4 of Section 16, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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



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.

John H. Kay

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 27)

LATITUDE = $40^{\circ}02'45.34''$ (40.045928)
 LONGITUDE = $110^{\circ}13'39.70''$ (110.227694)

(NAD 83)

LATITUDE = $40^{\circ}02'45.20''$ (40.045889)
 LONGITUDE = $110^{\circ}13'42.25''$ (110.228403)

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-07-04	DATE DRAWN: 09-13-04
PARTY D.A. B.B. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	

Petroglyph Operating Co., Inc.
P.O. Box 607
Roosevelt, UT 84066

November 23, 2004

Utah Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #16-11G
NE/SW, SEC. 16, T5S, R3W, U.S.B.&M.
DUCHESNE COUNTY, UTAH
LEASE NO.: BIA 14-20-H62-3511
UTE INDIAN TRIBAL LANDS

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

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

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

Sincerely,



Ed Trotter
Agent
Petroglyph Operating Co., Inc.

Attachments

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EIGHT POINT PLAN

**UTE TRIBAL 16-11G
NE/SW, SEC. 16, T5S, R3W
DUCHESNE COUNTY, UTAH**

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2934.4	3412
"X" Marker	4514.4	1832
Douglas Creek	4654.4	1692
"B" Limestone	5036.4	1310
B/Castle Peak Limestone	5596.4	750
Total Depth	6200	386
Anticipated BHP	2535	

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	4654.4	1692
Oil/Gas	B/Castle Peak	5596.4	750
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

4. CASING PROGRAM:

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>MINIMUM SAFETY FACTOR</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4"	0 - 280'	280'	8 5/8"	24.0#	J-55	1370 PSI	2950 PSI	263,000#
7 7/8"	0 - 6200'	6200'	5 1/2"	15.5#	J-55	4040 PSI	4810 PSI	239,000#

All casing will be new or inspected.

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.

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EIGHT POINT PLAN

**UTE TRIBAL 16-11G
NE/SW, SEC. 16, T5S, R3W
DUCHESNE COUNTY, UTAH**

6. CEMENT PROGRAM:

12 1/4"	J-55	8 5/8"	24.0#	280'	165 SX CLASS "G" + 2% CaCl2 + 1/4 # /SX CELLOFLAKE (YIELD 1.18 CU FT/SX)
7 7/8"	J-55	5 1/2"	15.5#	6000'	LEAD: 130 SX CLASS "G" + 12% GEL + 5% SALT + 1/4 #/SX CELLOFLAKE (3.82 CU.FT/SX) TAIL: 365 SX CLASS "G" + 10% GYPSUM + 1/4 #/SX CELLOFLAKE (1.60 CU FT/SX)

7. VARIANCE REQUESTS:

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

5. EVALUATION PROGRAM:

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

Cores: None anticipated
DST: None Programmed

Completion: To be submitted at a later date.

6. ABNORMAL CONDITIONS:

None anticipated.

7. STANDARD REQUIRED EQUIPMENT:

None Required

8. HAZARDOUS CHEMICALS:

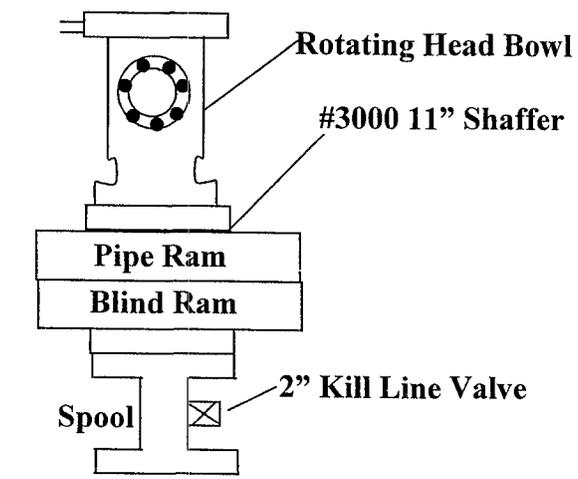
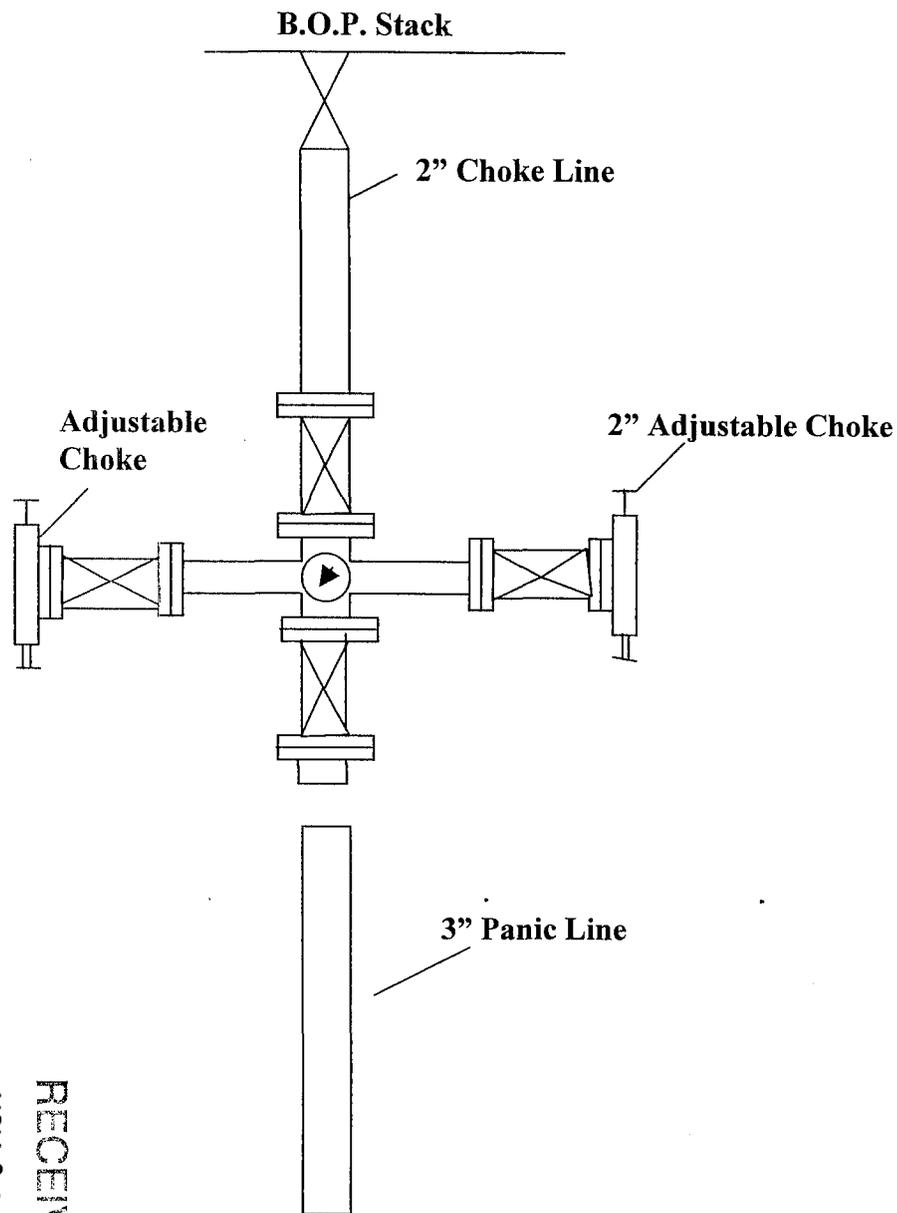
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold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

(Attachment: BOP Schematic Diagram)

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BLM #2000 System Stack

BLM #2000 Choke Manifold System

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**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 #16-11G
Lease Number: BIA 14-20-H62-3511
Location: 2434' FSL & 2520' FWL, NE/SW,
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.

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THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 12.52 miles southwest of Bridgeland, 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 100 feet in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

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

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

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

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

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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. Abandoned wells - 10*
- B. Temporarily abandoned wells - 1*
- C. Producing wells - 15*
- D. Shut in wells - 2*

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

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

A. **ON WELL PAD**

- 1. Production facilities - To be submitted later

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.
- 3. A 4 1/2" OD steel above ground production pipeline will be laid approximately 1027' from proposed location to a point in the SW/NE of Section 16, T5S, R3W, where it will tie into Petroglyph Operating Co. Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map "D" showing pipeline route.
- 4. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.

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 Northeast side of the location.

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

5. **LOCATION & TYPE OF WATER SUPPLY**

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

6. **SOURCE OF CONSTRUCTION MATERIAL**

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

7. **METHODS OF HANDLING WASTE DISPOSAL**

A. METHODS AND LOCATION

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

- B. Water from drilling fluids and recovered during testing operations will be

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disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

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

On BIA administered land:

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

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

___ To protect the environment:

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

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

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

7. **ANCILLARY FACILITIES**

- No airstrips or camps are planned for this well.

9. **WELLSITE LAYOUT**

- A. Refer to attached well site plat for related topography cuts and fills and cross Sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.

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C. Refer to attached well site plat for rig orientation, parking areas, and access road.

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

The stockpiled topsoil will be stored Southwest of Corner #6 of the location.

Access to the well pad will be from the Northeast.

Corners #2 & #8 will be rounded off to minimize excavation.

10. FENCING REQUIREMENTS:

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

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

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

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

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present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

11. **PLANS FOR RESTORATION OF SURFACE**

A. **PRODUCING LOCATION**

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

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

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

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

Contact appropriate surface management agency for required seed mixture.

B. **DRY HOLE/ABANDONED LOCATION**

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

ON BIA ADMINISTERED LANDS:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, © ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

12. **SURFACE OWNERSHIP**

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

13. **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

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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).

14. **Additional Surface Stipulations**

None

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

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

OPERATIONS

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

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph 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.

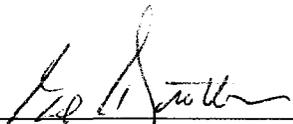
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Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

11-23-2004
Date


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

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DIV. OF OIL, GAS & MINING

PETROGLYPH OPERATING CO., INC.
UTE TRIBAL #16-11G
SECTION 16, T5S, R3W, U.S.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 100' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 20.2 MILES.

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DIV. OF OIL, GAS & MINING

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-11G
LOCATED IN DUCHESNE COUNTY, UTAH
SECTION 16, T5S, R3W, U.S.B.&M.

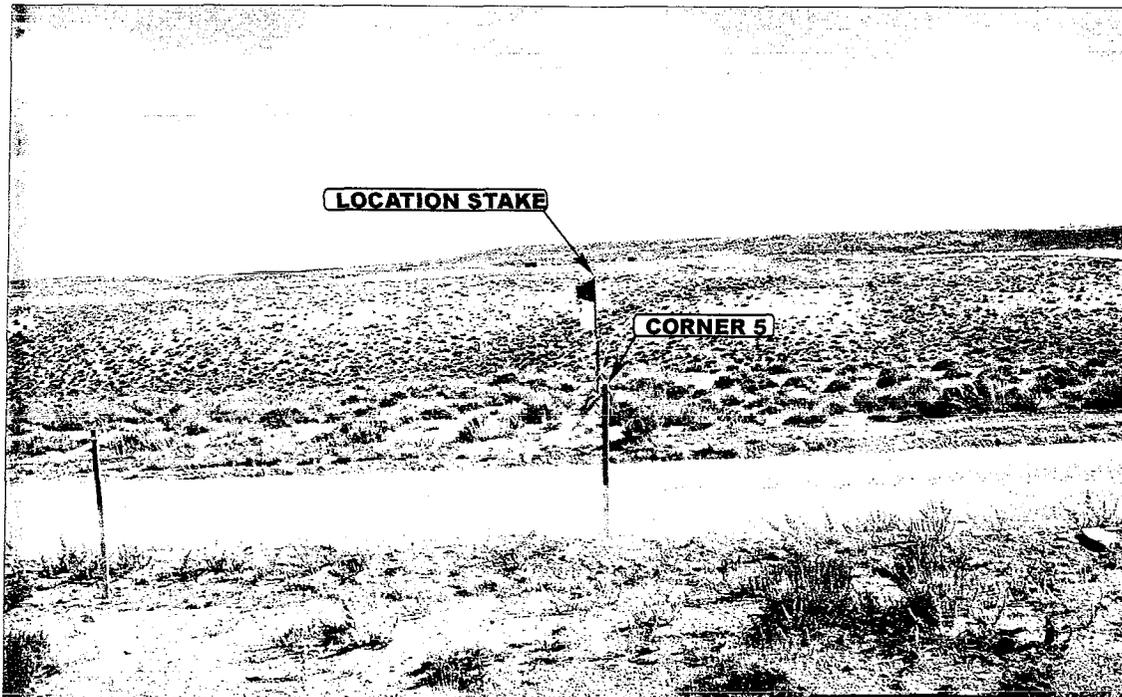


PHOTO: VIEW FROM CORNER 5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS ROAD

CAMERA ANGLE: SOUTHEASTERLY

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NOV 26 2004

77 OIL, GAS & MINING



- Since 1964 -

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

LOCATION PHOTOS	09	16	04	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.A.	DRAWN BY: L.K.	REVISED: 00-00-00		

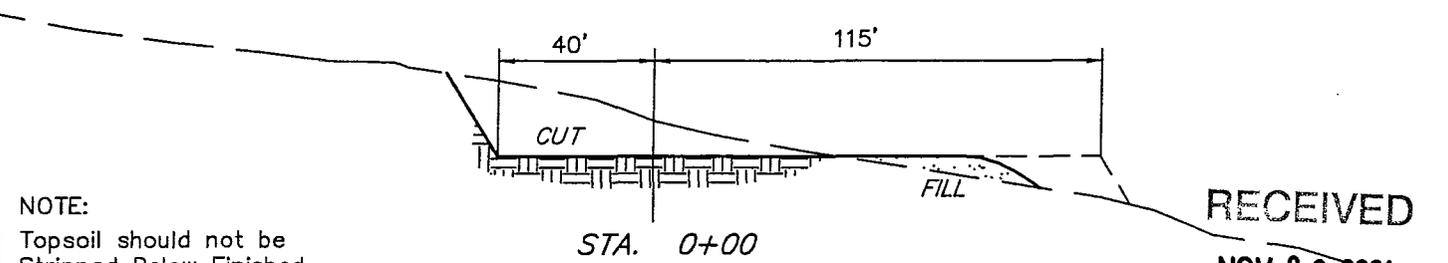
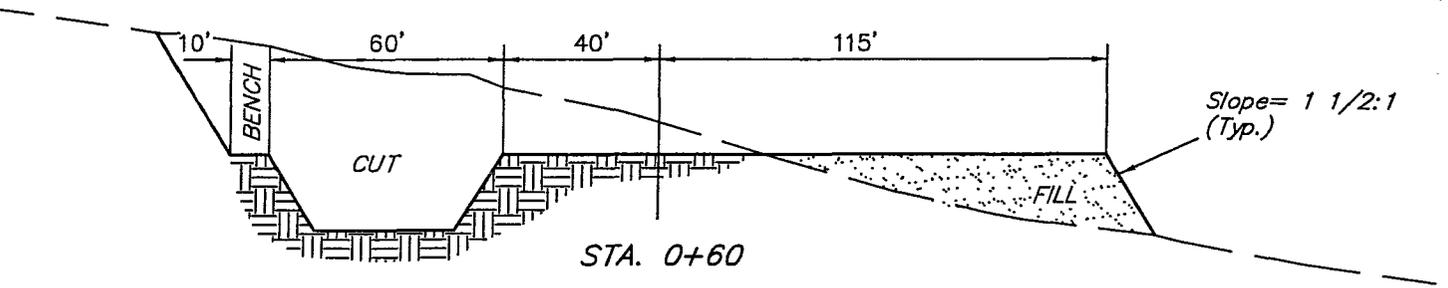
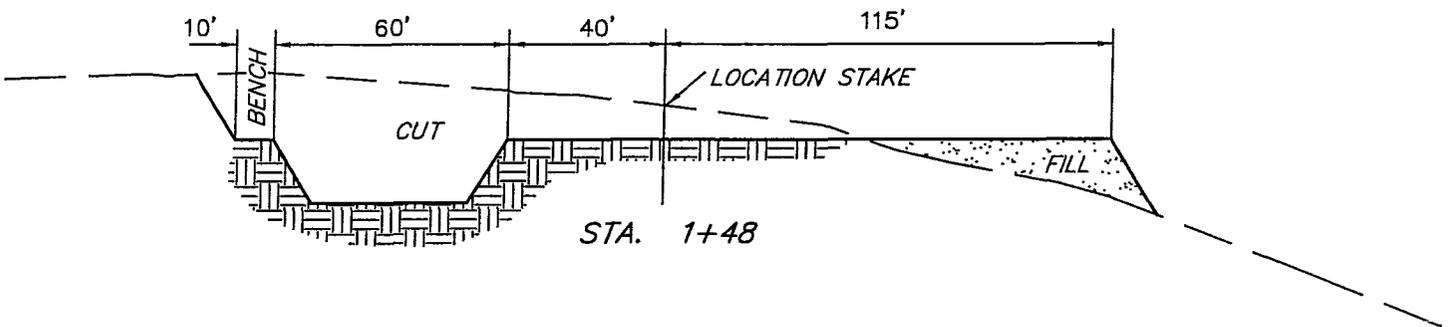
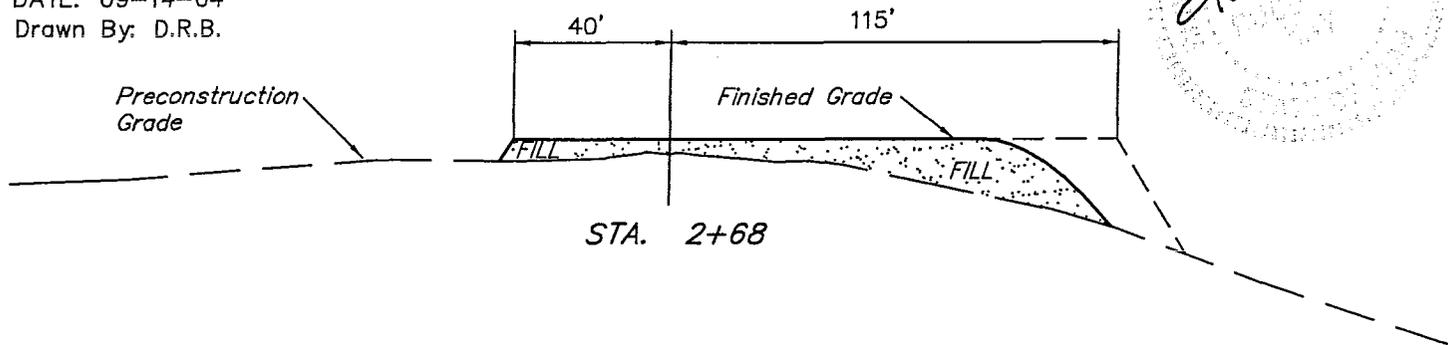
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #16-11G
SECTION 16, T5S, R3W, U.S.B.&M.
2434' FSL 2520' FWL

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

DATE: 09-14-04
Drawn By: D.R.B.



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

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NOV 26 2004

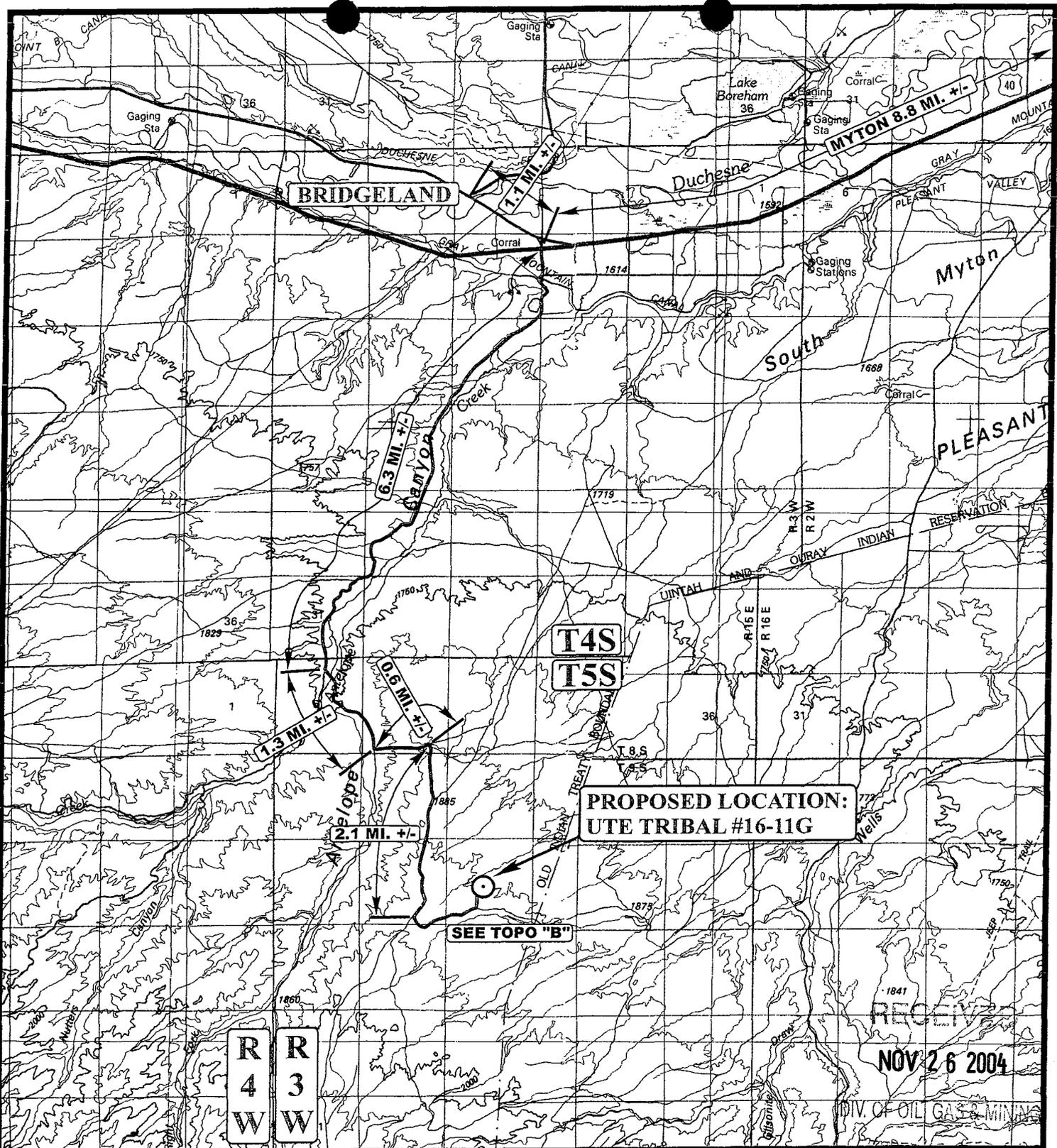
* NOTE:
FILL QUANTITY INCLUDES DIV. OF OIL, GAS & MINING
5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	2,330 Cu. Yds.
Remaining Location	=	5,880 Cu. Yds.
TOTAL CUT	=	8,210 CU.YDS.
FILL	=	5,180 CU.YDS.

EXCESS MATERIAL	=	3,030 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,030 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

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



**PROPOSED LOCATION:
UTE TRIBAL #16-11G**

SEE TOPO "B"

NOV 26 2004

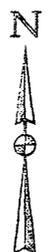
LEGEND:

○ PROPOSED LOCATION

PETROGLYPH OPERATING CO., INC.

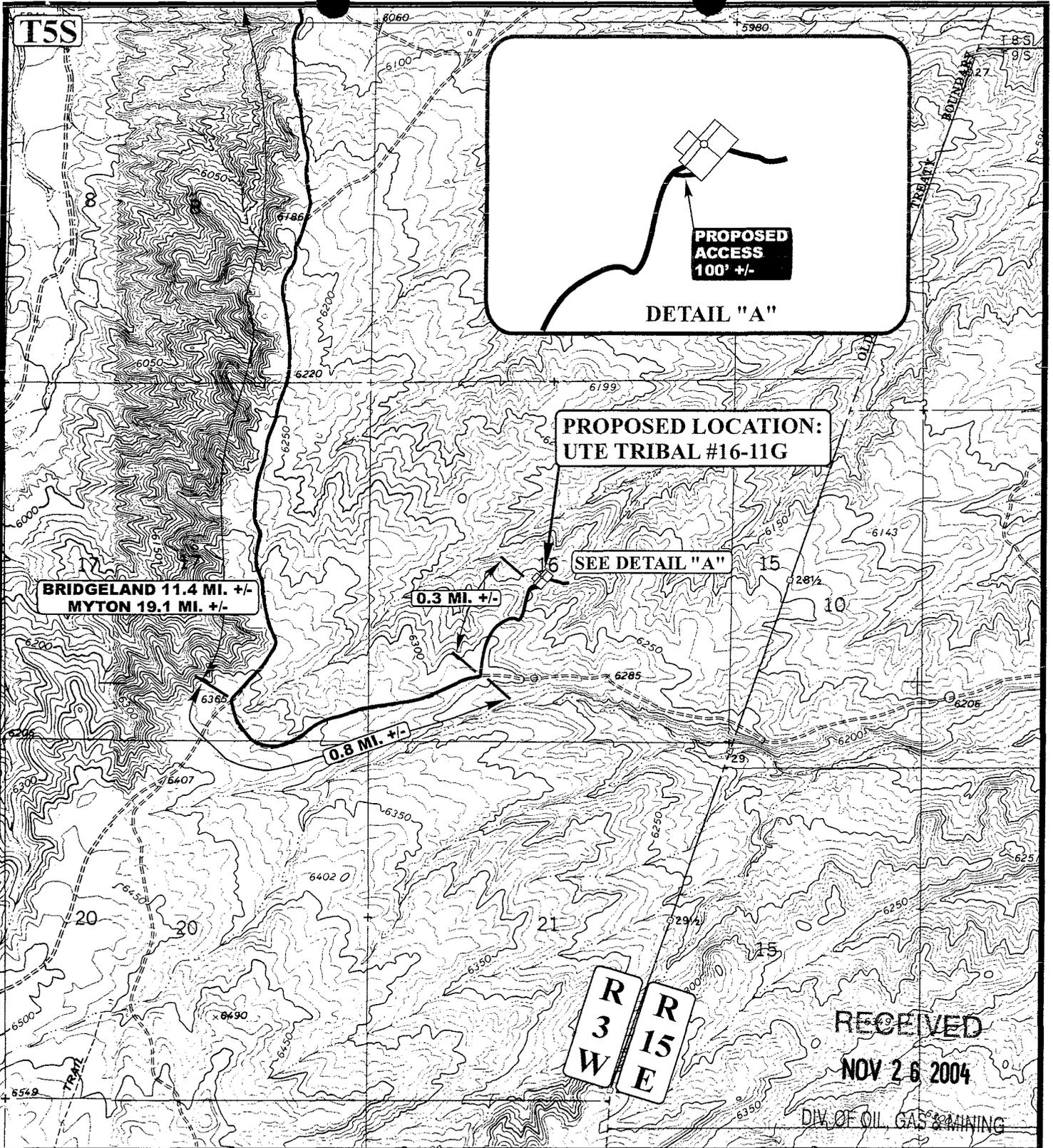
UTE TRIBAL #16-11G
SECTION 16, T5S, R3W, U.S.B.&M.
2434' FSL 2520' FWL

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



TOPOGRAPHIC MAP 09 16 04
 MONTH DAY YEAR
 SCALE: 1:100,000 | DRAWN BY: L.K. | REVISED: 00-00-00





LEGEND:

————— EXISTING ROAD

- - - - - PROPOSED ACCESS ROAD

UES Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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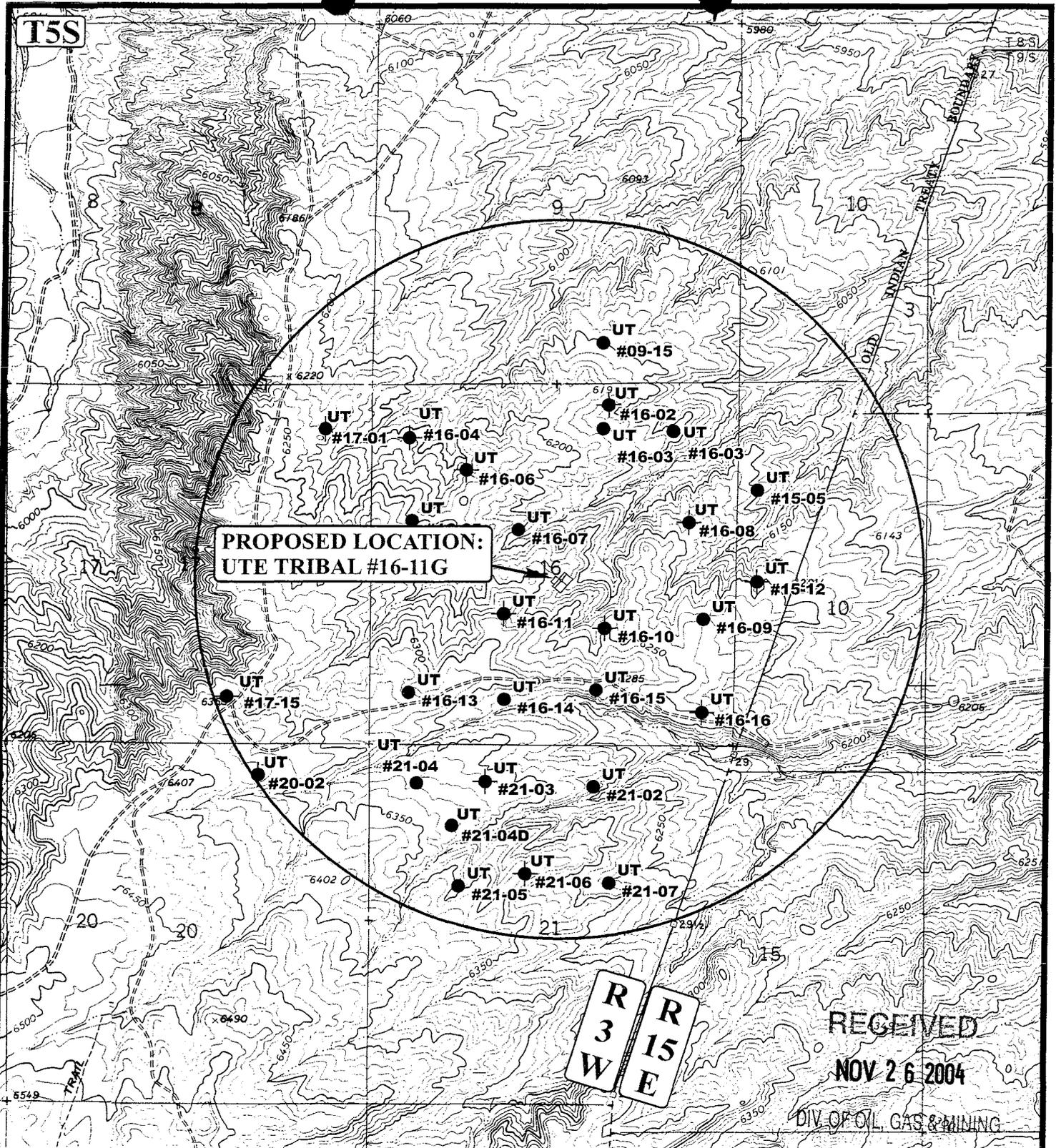
PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-11G
 SECTION 16, T5S, R3W, U.S.B.&M.
 2434' FSL 2520' FWL

TOPOGRAPHIC MAP 09 16 04
 MONTH DAY YEAR

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

B
TOPO



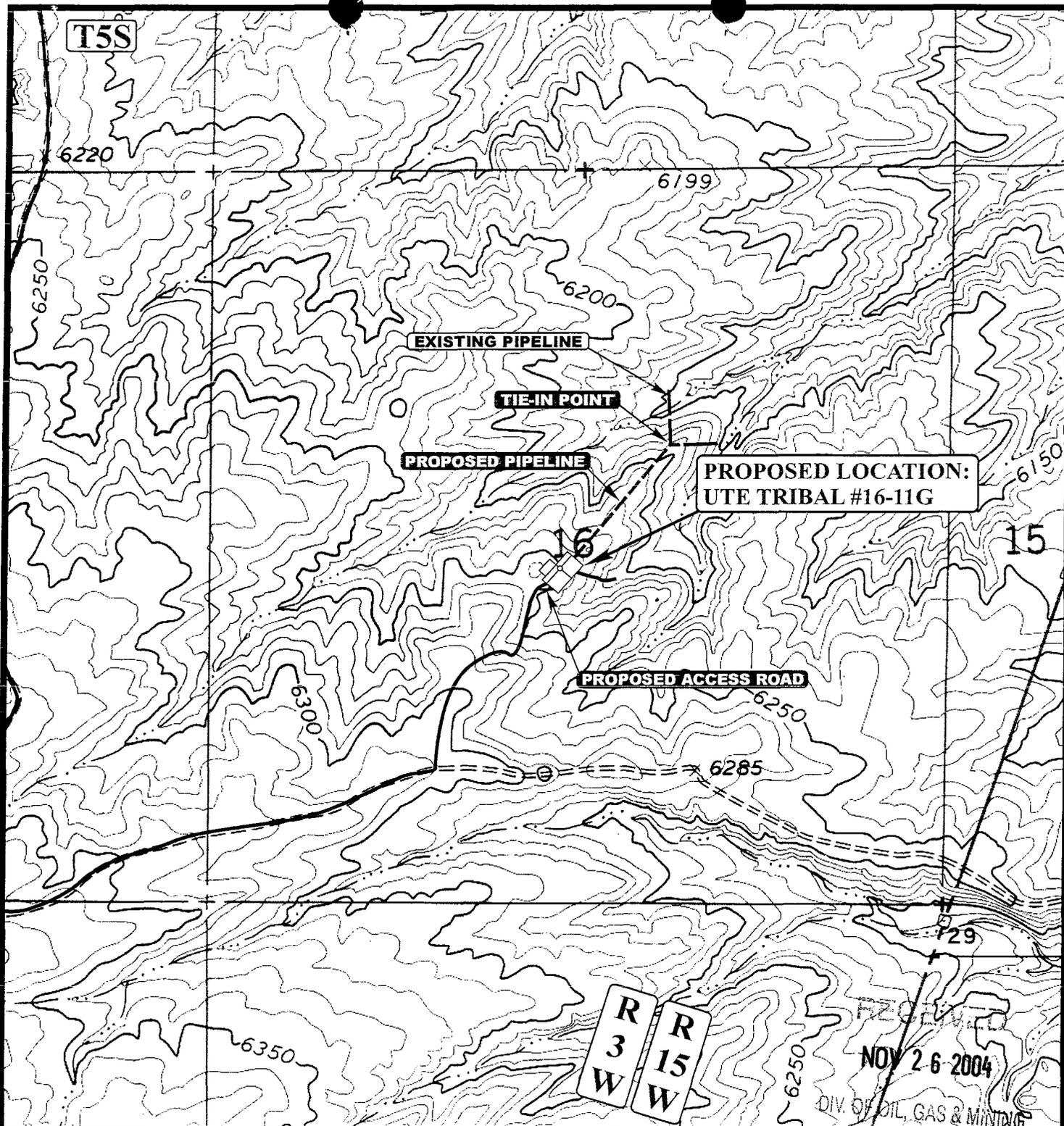
- LEGEND:**
- DISPOSAL WELLS
 - PRODUCING WELLS
 - SHUT IN WELLS
 - WATER WELLS
 - ABANDONED WELLS
 - TEMPORARILY ABANDONED

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



PETROGLYPH OPERATING CO., INC.
 UTE TRIBAL #16-11G
 SECTION 16, T5S, R3W, U.S.B.&M.
 2434' FSL 2520' FWL

TOPOGRAPHIC MAP 09 | 16 | 04
 MONTH | DAY | YEAR
 SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00 **C TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 1027' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-11G
SECTION 16, T5S, R3W, U.S.B.&M.
2434' FSL 2520' FWL

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



TOPOGRAPHIC MAP
 09 | 16 | 04
 MONTH | DAY | YEAR
 SCALE: 1" = 1000' | DRAWN BY: L.K. | REVISED: 00-00-00

D
 TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/26/2004

API NO. ASSIGNED: 43-013-32727

WELL NAME: UTE TRIBAL 16-11G
OPERATOR: PETROGLYPH OPERATING CO (N3800)
CONTACT: ED TROTTER

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:

NESW 16 050S 030W
SURFACE: 2434 FSL 2520 FWL
BOTTOM: 2434 FSL 2520 FWL
DUCHESNE
ANTELOPE CREEK (60)

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

LEASE TYPE: 2 - Indian
LEASE NUMBER: 14-20-H62-3511
SURFACE OWNER: 2 - Indian
PROPOSED FORMATION: CSLPK
COALBED METHANE WELL? NO

LATITUDE: 40.04468
LONGITUDE: -110.2297

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]
(No. BO 4556)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-10152)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

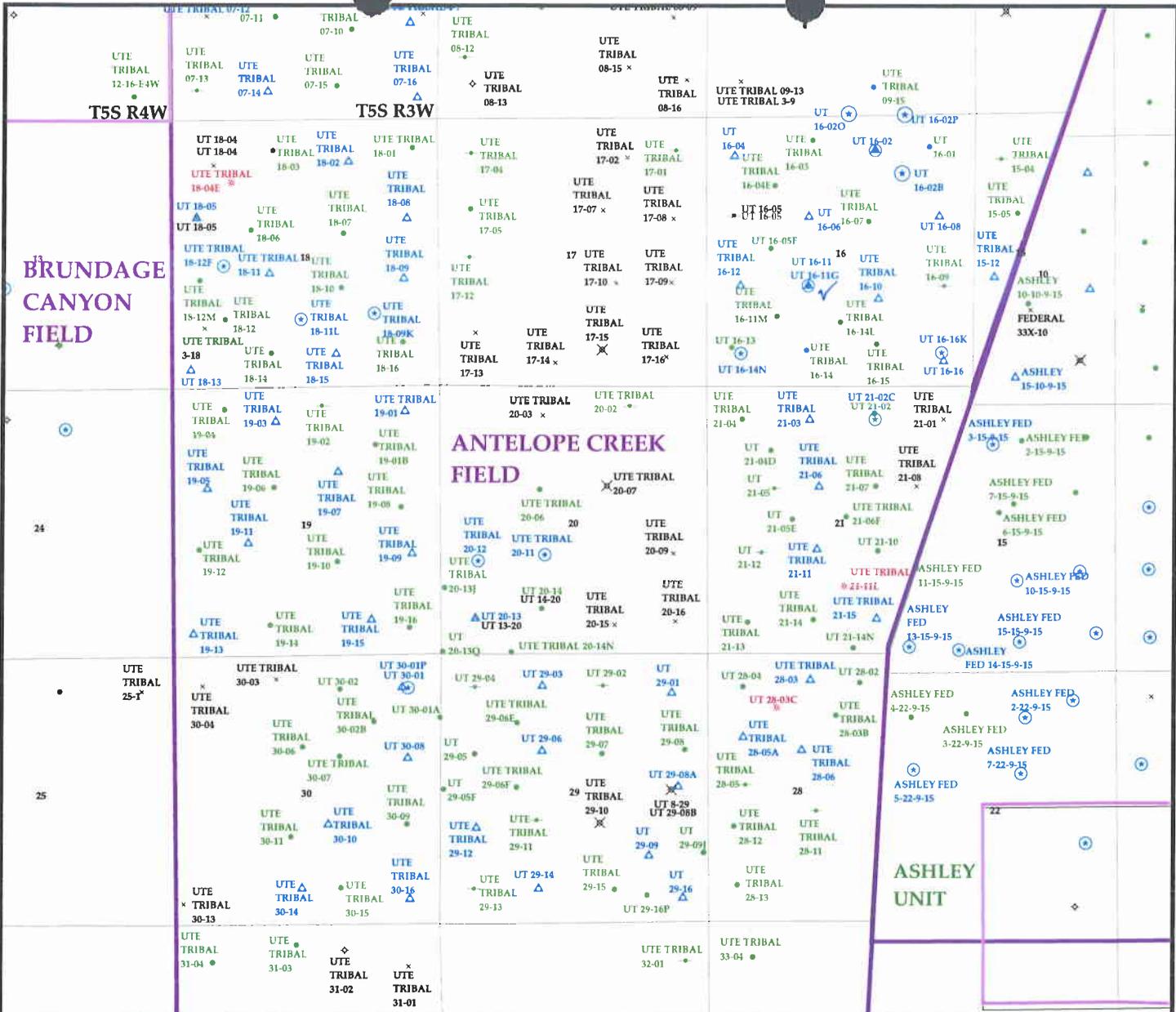
LOCATION AND SITING:

- R649-2-3.
Unit _____
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1- Federal Approval
2- Spacing List



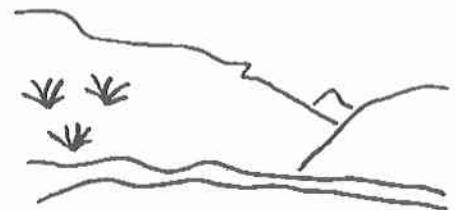
OPERATOR: PETROGLYPH OPER CO (N2685)

SEC. 16 T.5S R.3W

FIELD: ANTELOPE (60)

COUNTY: DUCHESNE

SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

Wells	Units.shp	Fields.shp
⊕ GAS INJECTION	□ EXPLORATORY	□ ABANDONED
⊙ GAS STORAGE	□ GAS STORAGE	□ ACTIVE
× LOCATION ABANDONED	□ NF PP OIL	□ COMBINED
⊕ NEW LOCATION	□ NF SECONDARY	□ INACTIVE
⊖ PLUGGED & ABANDONED	□ PENDING	□ PROPOSED
⊕ PRODUCING GAS	□ PI OIL	□ STORAGE
⊙ PRODUCING OIL	□ PP GAS	□ TERMINATED
⊖ SHUT-IN GAS	□ PP GEOTHERML	
⊖ SHUT-IN OIL	□ PP OIL	
× TEMP. ABANDONED	□ SECONDARY	
⊙ TEST WELL	□ TERMINATED	
⊕ WATER INJECTION		
⊕ WATER SUPPLY		
⊕ WATER DISPOSAL		



PREPARED BY: DIANA WHITNEY
DATE: 1-DECEMBER-2004

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

December 2, 2004

Re: Application for Exception Well Location
Proposed Ute Tribal 16-11G
Township 5 South, Range 3 West
Section 16: NE/4 SW/4
Duchesne County, Utah

Due to topography, Petroglyph Operating Company Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal 16-11G, a 6,200' Green River test, at a location 2434' FSL & 2520' FWL, NE/4 SW/4, Section 16, Township 5 South, Range 3 West, Duchesne County, Utah.

Petroglyph Operating Company Inc. holds 100% of the operating rights within a 460' radius of the requested well site.

Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity so that drilling operations can resume.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 435-789-4120

Sincerely,



Ed Trotter, Agent
Petroglyph Operating Company Inc.

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DEC 06 2004

DIV. OF OIL, GAS & MINING



State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

December 6, 2004

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

Re: Ute Tribal 16-11G Well, 2434' FSL, 2520' FWL, NE SW, Sec. 16, T. 5 South,
R. 3 West, Duchesne County, Utah

Gentlemen:

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

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-013-32727.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

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

Operator: Petroglyph Operating Company, Inc.

Well Name & Number Ute Tribal 16-11G

API Number: 43-013-32727

Lease: 14-20-H62-3511

Location: NE SW Sec. 16 T. 5 South R. 3 West

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

JUL-07-2003 MON 09:40 AM GAS & MINING

FAX NO. 801 559 3940

P. 02/03

006

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

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Co.
Address: P.O. Box 607
city Roosevelt
state UT zip 84066

Operator Account Number: N 3800
Phone Number: 722-2531

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-013-32727	Ute Tribal 16-11G	NE SW	16	55	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
B	99999	12246	03-24-05		3/24/05	
Comments: <u>CSLPK = GREV</u>						

Well 2

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

Well 3

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

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MAR 24 2005

ACTION CODES:

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

DIV. OF OIL, GAS & MINING
Callie Duncan
Name (Please Print)
Callie Duncan
Signature
Production Asst. 03-24-05
Title Date

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NOV 28 2004

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.
14-20-H62-3511
6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE
7. If Unit or CA Agreement, Name and No.
UTE TRIBAL
8. Lease Name and Well No.
UTE TRIBAL 16-11G

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

9. API Well No.
43-013-32727

3a. Address **P.O. BOX 607,
ROOSEVELT, UT 84066**

3b. Phone No. (Include area code)
(435)722-2531

10. Field and Pool, or Exploratory
ANTELOPE CREEK

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **2434' FSL, 2520' FWL** **NE/SW**

11. Sec., T., R., M., or Blk. and Survey or Area
**SEC. 16, T5S, R3W,
U.S.B.&M.**

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*
12.52 MILES SOUTHWEST OF BRIDGELAND, UTAH

12. County or Parish **DUCHESNE** 13. State **UTAH**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)
2434'

16. No. of Acres in lease
640

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See Topo Man "C"**

19. Proposed Depth
6200'

20. BLM/BIA Bond No. on file
BO 4556

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6238.1 FEET GRADED GROUND

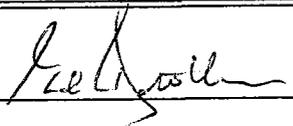
22. Approximate date work will start*
UPON APPROVAL

23. Estimated duration
45 DAYS

24. Attachments

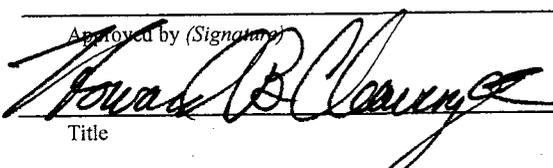
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

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

25. Signature  Name (Printed/Typed) **Ed Trotter** Date **November 23, 2004**

Title
Agent

RECEIVED

Approved by (Signature)  Name (Printed/Typed) **THOMAS B. CLANCY** Date **03/18/2005**
Title **Director** Office **DIV. OF OIL, GAS & MINING**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of Approval, if any, are attached.

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

*(Instructions on reverse)

NOTICE OF APPROVAL

05 PS 0113A

UDDGM

CONDITIONS OF APPROVAL ATTACHED

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co.
Well Name & Number: Ute 16-11G
Lease Number: 1420-H62-3511
API Number: 43-013-32727
Location: NESW Sec. 16 T.5S R. 3W
Agreement:

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

CONDITIONS OF APPROVAL

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 John Mayers 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.

The variances requested in section 6 of the 8 point drilling plan are granted with the following conditions:

If a mist system is being utilized then the requirement for an automatic ignitor shall be waived.

Where the location and rig layout allows, the blowline shall be straight and extend 100' from the wellbore. This requirement will be waived only in the case where the location is too small to accommodate it.

3. Casing Program and Auxiliary Equipment

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

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

As a minimum requirement, the cement behind the production casing must extend at least 200' above the top of the Green River formation which has been identified at $\pm 2720'$.

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.

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

Please submit an electronic copy of all logs run on this well in LAS format. This submission will supercede the requirement for submittal of paper logs to the BLM. The

cement bond log must be submitted in raster format (TIF, PDF or other).

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. Written notification of such must be submitted to this office not later than five (5) days following the date on which the well is placed on production.

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

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering

and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergencies, 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, you must contact one of the following individuals:

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.

Well No.: Ute Tribal 16-11G

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

Petroglyph Operating Company, Inc. (Petroglyph) will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have updated "Access Permits" prior to construction. All Petroglyph personnel, contractors and subcontractors will have these permits in their vehicles at all times. Companies that have not complied with this COA will be in violation of the Ute Tribal Business License Ordinance, and will be subject to fines and penalties.

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

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

Petroglyph will notify the Ute Tribe and Bureau of Indian Affairs (BIA) in writing of any requested modification of APDs or Rights-Of Way (ROW). Petroglyph shall receive written notification of authorization or denial of the requested modification. Without authorization, Petroglyph will be subject to fines and penalties.

The Ute Tribe Energy & Minerals Department shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. A Tribal Technician is to routinely monitor construction. Petroglyph shall make arrangements with the Ute Energy & Minerals Department for all monitoring that will exceed regular working hours for Tribal Technicians. A qualified archaeologist accompanied by a Tribal Technician will monitor any trenching construction of the pipeline.

At the Ute Tribal 16-11G well, a corridor ROW, 1002 feet long and 50 feet wide, shall be granted for the pipeline and a ROW, 27 feet long and 30 feet wide, shall be granted for the new access road.

At the Ute Tribal 16-150 well, a corridor ROW, 1055 feet long and 75 feet wide, shall be granted for the pipeline and for the new access road.

The constructed, travel width of the access roads will be limited to 18 feet. Upon authorization by the Ute Tribe Energy & Minerals Department, the ROW may be wider where sharp curves; deep cuts and fills occur; or, where intersections with other roads are required.

Culverts and diversion ditches will be placed and constructed where needed. Road base gravel will be used where sandy soils make roadways and the drilling location hazardous for access or drilling operations.

Upon completion of the pertinent APD and ROWs, Petroglyph will notify the Ute Tribe Energy & Minerals Department for a Tribal Technician to verify the Affidavit of Completion.

Production waters, oil, and other byproducts shall not be placed on access roads or the well pad.

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

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

Petroglyph shall stop construction activities and notify personnel from the Ute Tribe Energy & Minerals Department and BIA if cultural remains including paleontology resources (vertebrate fossils) are exposed or identified during construction. The Ute Tribe Department of Cultural Rights and Protection and the BIA will provide mitigation measures prior to allowing construction.

Petroglyph employees and/or authorized personnel (subcontractors) will not be allowed to collect artifacts and paleontology fossils. No significant cultural resources shall be disturbed.

Petroglyph will control noxious weeds on the well site and ROWs. Petroglyph will be responsible for noxious weed control if weeds spread from the project area onto adjoining land.

Reserve pits will be lined with an impervious synthetic liner. A fence will be constructed around the reserve pit until it is backfilled. 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 surplus oil and mud, etc., will be buried a minimum of 3 feet below the surface of the soil.

A closed system will be used during production. This means that production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites.

Surface pipelines will be constructed to lay on the soil surface. The pipeline portion of the ROW will not be bladed or cleared of vegetation without authorization of the BIA. Surface pipelines shall be welded in place at well sites or on access roads. They shall be pulled into place and assembled with suitable equipment. Vehicles shall not use pipeline ROWs as access roads unless specifically authorized.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface. After construction is completed the disturbed area shall be contoured to blend into the natural landscape and be reseeded between September 15 and November 1 of the year following construction with perennial vegetation seed mixture provided by the BIA or Ute Tribe.

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

Soil erosion will be mitigated, by reseeding all disturbed areas.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

008

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.
 Other _____

2. Name of Operator Petroglyph M Operating
 3. Address PO Box 601 Roosevelt, UT 3a. Phone No. (include area code) 435 722 2531

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface 2434' FSL, 2520' FWL NE/SW
 At top prod. interval reported below " "
 At total depth " "

5. Lease Serial No. 14-20-H62-3511
 6. If Indian, Allottee or Tribe Name Ute Indian Tribe
 7. Unit or CA Agreement Name and No. 14-20-H62-4650
 8. Lease Name and Well No. Ute Tribal 16-11G
 9. API Well No. 43-013-32727
 10. Field and Pool, or Exploratory Antelope Creek
 11. Sec., T., R., M. on Block and Survey or Area 16, T55, R3W
 12. County or Parish _____ 13. State _____

14. Date Spudded 3-24-05 15. Date T.D. Reached 5876 16. Date Completed 4/22/05
 D & A Ready to Prod. 17. Elevations (DF, RKB, RT, GL)* 10' KB

18. Total Depth: MD 5865' TVD 5788' 19. Plug Back T.D.: MD 5788' TVD _____
 20. Depth Bridge Plug Set: MD _____ TVD _____
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Compensated Neutron, Compensatory Dual Induction, CBH
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

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

Hole Size	Size/Grad	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top	Amount Pulled
10.25	J-55	24	0	320		Class G 200	41	0	
7.875	J-55	15.5	0	5848		Class G 505	213	1241.0	
	55								

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5175'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) B11	4538	4548	4538-4548	.45	40	open
B) C16	4923	4942	4923-4928	.45	60	open
C) C9	5052	5056	4932-4942	.45	60	open
D)			5052-5056	.45	16	open

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

Depth Interval	Amount and Type of Material
4923-4942	12,000 # Sand Frac
4538-4548	33,000 # Sand Frac

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4/22/05	4/22/05		→	33	38	135	33	.65	Beam pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
	80	80	→	33	38	135	1151	POW	

28a. Production - Interval B

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

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28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
B11	4538'	4548			
C6	4923	4928			
C6	4932	4942			
C9	5052	5056			

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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

Name (please print) Steve Wall Title District Engineer
 Signature Steve Wall Date 5-5-05

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

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JUN 14 2005



Petroglyph Energy, Inc.

555 S. COLE RD.
BOISE, ID 83709
(208) 377-6000

MINING

**Drilling Chronological
Regulatory**

Well Name: UTE TRIBAL 16-11G					
Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT
Operator	GLYPH OPERATING COM	Location Desc	API # 43-013-38727	District	UTAH
Project AFE:	42197	AFEs Associated:	/ / /		

Daily Summary							
Activity Date :	3/29/2005	Days From Spud :	0	Current Depth :	877 F	24 Hr. Footage Made :	577 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	8.00	01	Finish rigging down move rig up	0	0	NIH
14:00	0.50	01	rig up	0	0	NIH
14:30	3.00	15	Pressure test	0	0	NIH
17:30	1.00	28	Pick up BHA tag cement @ 206	0	0	NIH
18:30	2.00	08	Chain BOP & work on mud pump	0	0	NIH
20:30	1.00	35	Drill cement & plug	0	0	NIH
21:30	0.50	02	Drilling from 300 to 306	300	306	NIH
22:00	3.50	02	Drill 7-7/8 hole from 306 to 577	306	577	NIH
1:30	0.50	10	survey rig service	577	577	NIH
2:00	4.00	02	Drill 7-7/8 hole from 577 to 877	577	877	NIH
Total:	24.00					

Daily Summary							
Activity Date :	3/30/2005	Days From Spud :	0	Current Depth :	2710 F	24 Hr. Footage Made :	1833 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	02	Drill from 877 to 1063	877	1063	NIH
8:00	0.25	07	Lubricate rig	1063	1063	NIH
8:15	0.25	10	dev. Survey	1063	1063	NIH
8:30	0.50	08	Work on mud pump	1063	1063	NIH
9:00	5.00	02	Drill from 1063 to 1380	1063	1380	NIH
14:00	2.50	02	Drill from 1380 to 1602	1380	1602	NIH
16:30	0.50	10	survey and service rig	1602	1602	NIH
17:00	5.00	02	drill from 1602 to 2045	1602	2045	NIH
22:00	0.50	10	survey rig service	2045	2045	NIH
22:30	5.50	02	Drill from 2045 to 2583	2045	2583	NIH
4:00	0.50	10	survey service pumps	2583	2583	NIH
4:30	1.50	02	Drill from 2583 to 2710	2583	2710	NIH
Total:	24.00					

Well Name: UTE TRIBAL 16-11G

Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT
Operator	GLYPH OPERATING COM	Location Desc		District	UTAH

Daily Summary

Activity Date :	3/31/2005	Days From Spud :	1	Current Depth :	4171 F	24 Hr. Footage Made :	1461 F
Rig Company :		Formation :		Rig Name :		Weather :	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.00	02	Drill from 2710 to 2993	2710	2993	NIH
9:00	0.50	07	lubricate rig	2993	2993	NIH
9:30	0.50	10	dev. Survey	2993	2993	NIH
10:00	4.00	02	Drill 2993 to 3247	2993	3247	NIH
14:00	2.50	02	Drill from 3247 to 3466	3247	3466	NIH
16:30	0.50	10	survey and service rig	3466	3466	NIH
17:00	5.00	02	drill from 3466 to 3783	3466	3783	NIH
22:00	2.00	02	drill from 3783 to 3941	3783	3941	NIH
0:00	0.50	10	survey rig service	3941	3941	NIH
0:30	5.50	02	drill from 3941 to 4171	3941	4171	NIH
Total:	24.00					

Daily Summary

Activity Date :	4/1/2005	Days From Spud :	2	Current Depth :	5111 F	24 Hr. Footage Made :	940 F
Rig Company :		Formation :		Rig Name :		Weather :	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	06	Trips	4171	4171	NIH
8:00	1.00	07	lubricate rig	4171	4171	NIH
9:00	2.50	06	Trips	4171	4171	NIH
11:30	0.50	21	load hole, drill pipe h2o	4171	4171	NIH
12:00	2.00	02	Drill from 4171 to 4256	4171	4256	NIH
14:00	1.50	02	drill from 4256 to 4415	4256	4415	NIH
15:30	0.50	10	survey and service rig	4415	4415	NIH
16:00	6.00	02	drill from 4415 to 4732	4415	4732	NIH
22:00	4.00	02	drill from 4732 to 4985	4732	4985	NIH
2:00	0.50	10	survey rig service	4985	4985	NIH
2:30	3.50	02	drill from 4985 to 5111	4985	5111	NIH
Total:	24.00					

Daily Summary

Activity Date :	4/2/2005	Days From Spud :	0	Current Depth :	5876 F	24 Hr. Footage Made :	765 F
Rig Company :		Formation :		Rig Name :		Weather :	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.00	02	Drill from 5111 to 5396	5111	5396	NIH
11:00	0.25	07	lubricate rig	5396	5396	NIH
11:15	0.25	10	dev. Survey	5396	5396	NIH
11:30	2.50	02	drill from 5396 to 5523	5396	5523	NIH
14:00	6.00	02	Drill from 5523 to 5876	5523	5876	NIH
20:00	1.00	05	circulate hole	5876	5876	NIH
21:00	0.50	10	survey	5876	5876	NIH
21:30	0.50	05	blow kelly out	5876	5876	NIH
Total:	16.00					

Well Name: UTE TRIBAL 16-11G

Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT
Operator	GLYPH OPERATING COM	Location Desc		District	UTAH

Daily Summary

Activity Date :	4/3/2005	Days From Spud :	4	Current Depth :	5876 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :		Rig Name :		Formation :		Weather :	

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

Date In	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
3/26/2005	320.35	7	3. Surface	8.625	24	J-55	0	12.25	320

Stage: 1, Lead, 0, 200, 2% cacl2 1/4# flocele, Class G, 1.15, 15.8

4/3/2005	5848.411	148	5. Production	5.5	15.5	J-55	0	7.875	0
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Stage: 1, Spacer, 20, 0, 20 bbls freahs, , 0, 0

Stage: 1, Spacer, 20, 0, 20 bbls gel, , 0, 0

Stage: 1, Lead, 0, 175, 16% gel 10lb/sk gilsonite GR-3 #% salt, Class G, 3.82, 11

Stage: 1, Tail, 0, 330, 10% gypsum, Class G, 1.6, 14.2

Stage: 1, Displacement, 138.2, 0, , , 0, 0