

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 CO., INC.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2008' FSL & 553' FEL NE/SE
 At proposed prod. zone

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

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 553'

17. NO. OF ACRES IN LEASE 617.20

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6553'

19. NO. OF ACRES ASSIGNED TO THIS WELL 80

20. ROTARY OR CABLE TOOLS ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5825.1' GRADED GROUND

22. APPROX. DATE WORK WILL START* AUGUST 1997

5. LEASE DESIGNATION AND SERIAL NO.
 14-20-H62-4736

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
 UTE TRIBAL

9. API WELL NO.
 #33-09-D3

10. FIELD AND POOL, OR WILDCAT
 ANTELOPE CREEK

11. SEC., T., E., M., OR BLEK. AND SURVEY OR AREA
 SEC. 33, T4S, R3W

12. COUNTY OR PARISH
 DUCHESNE

13. STATE
 UTAH

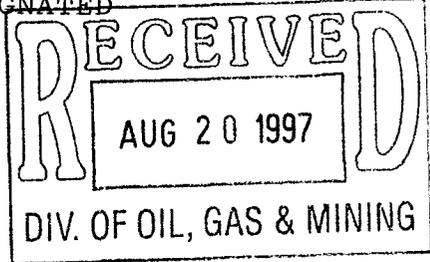
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11 PPG) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+5% EXCESS).
7 7/8"	5 1/2"	15.5#	6553'	

CONFIDENTIAL

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

pc: Utah Division of Oil, Gas, and Mining
 Bureau of Indian Affairs, Fort Duchesne, Utah



CONFIDENTIAL

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

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 8-14-97

(This space for Federal or State office use)

PERMIT NO. 43-013-31934 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 Associate Director DATE 9/15/97

*See Instructions On Reverse Side

T4S, R3W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #33-09-D3,
located as shown in the NE 1/4 SE 1/4 of
Section 33, T4S, R3W, U.S.B.&M. Duchesne
County, Utah.

S89°55'W - 80.50 (G.L.O.)

Pile of Stones,
5/8" Rebar

S0°03'E - 40.00 (G.L.O.)

N00°19'08"W - 2638.37' (Meas.)

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION
33, T4S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE
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 5938
FEET.

NOTE:
BASIS OF BEARINGS IS THE
EAST LINE OF THE NE 1/4
OF SECTION 5, T5S, R3W,
U.S.B.&M. WHICH IS ASSUMED
FROM G.L.O. INFORMATION TO
BEAR N0°02'E

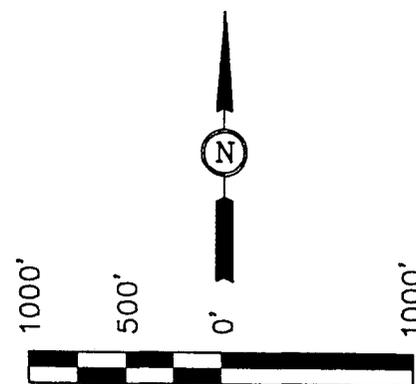
33

UTE TRIBAL #33-09-D3
Elev. Ungraded Ground - 5827'

553'

Pile of Stones,
Set 5/8" Rebar

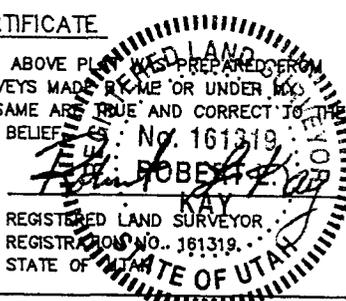
N00°29'08"W - 2432.13' (Meas.)



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.



REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

N00°00'10"E - 2453.70' (Meas.)

A.P. Pile of Stones

C.C. Set Stone,
Pile of Stones, 1/2"
Rebar, Plastic Cap

Lot 4

Lot 3

Lot 2

Lot 1

2008'

N89°26'42"E
362.25'

C.C. Marked Stone,
Pile of
Stones

N89°54'41"E - 5305.35' (Meas.)

A.P. Pile of Stones

S89°55'15"W
379.48'

LEGEND:

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

UNTAH ENGINEERING & LAND SURVEYING

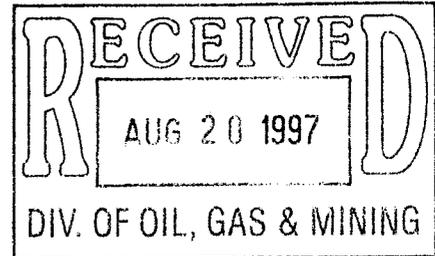
85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-2-97	DATE DRAWN: 7-18-97
PARTY L.D.T. B.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	

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

August 14, 1997



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

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #33-09-D3
NE/SE SEC. 33, T4S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. 14-20-H62-4736
SURFACE OWNER: ELMER R. &
ARWELLA P. MOON

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

EIGHT POINT PLAN

UTE TRIBAL #33-09-D3
NE/SE, SEC. 33, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	3053	2782
"X" Marker	4690	1145
Douglas Creek	4829	1006
"B" Limestone	5235	600
B/Castle Peak Limestone	5823	12
Basal Carbonate Limestone	6223	-388
Total Depth	6553	-718

Anticipated BHP 2000 psi

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4829	1006
Oil/Gas	B/Castle Peak	5823	12
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' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6553'	6553'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #33-09-D3
NE/SE, SEC. 33, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

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

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
Gel/polyacrylamide polymer w/5-10% LCM

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

6. VARIANCE REQUESTS:

- A. Petroglyph 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 #33-09-D3
NE/SE, SEC. 33, 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.

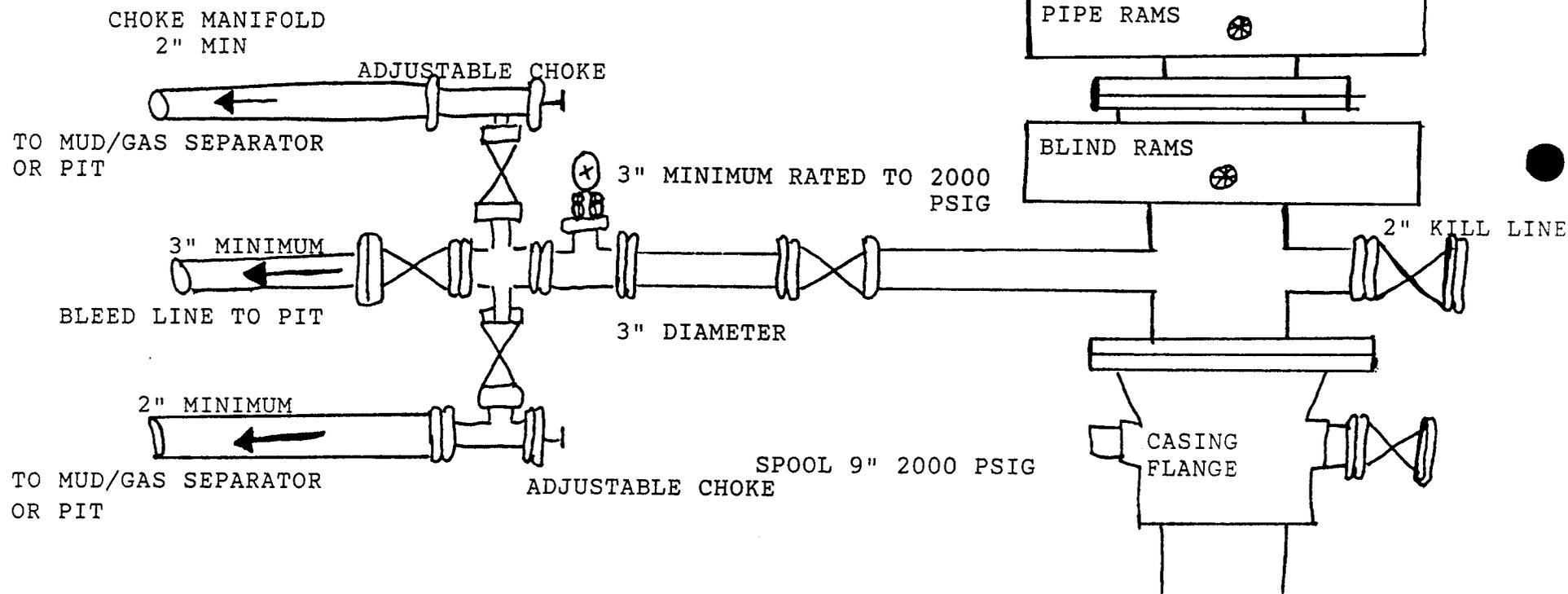
(Attachment: BOP Schematic Diagram)

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 Company
Well Name & Number: UTE TRIBAL #33-09-D3
Lease Number: 14-20-H62-4736
Location: 2008' FSL & 553' FEL, NE/SE, Sec. 33, T4S, R3W
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Elmer R. & Arwella P. Moon

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 roads.
- B. The proposed well site is located approximately 15.7 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

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

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 Company shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

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

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None.
- D. Disposal wells - None.
- E. Drilling wells - None.
- F. Producing wells - 11*
- 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 - None
- 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. A 4 1/2" OD steel above ground natural gas pipeline will be laid approximately 1275' from proposed location to a point in the NW/SW of Section 34, T4S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses privately owned surface, thus a Right-of-Way grant will be required.
2. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
3. 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.
The production facilities will be placed on the Northwest side of the location.

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 Private 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 Roosevelt 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 Privately owned surface :

The reserve pit will be constructed so as not to leak, break, or allow discharge.

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 Onshore Order No.7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

The reserve pit will be located on the Southeast side of the location.

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

The stockpiled topsoil will be stored on the South corner.

Access to the well pad will be from the South.

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

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

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

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

X Corners No. 2 & 6 will be rounded off to minimize excavation.

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. 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'.
- C. 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 BLM or SMA specifications.

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.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment.

11. SURFACE OWNERSHIP

Access road: Private

Location: Private

12. 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

P.O. Box 1910

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 Company 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.

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 Company and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

8-14-97

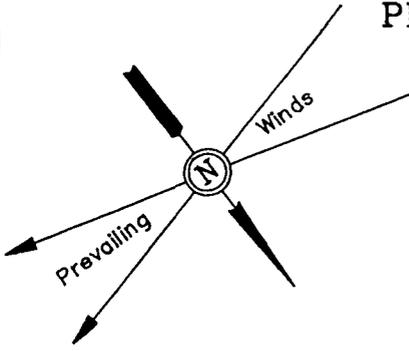
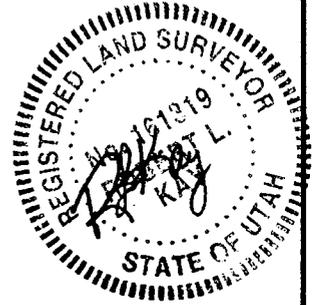
Date


Ed Trotter-Agent-
Petroglyph Operating Company

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #33-09-D3
SECTION 33, T4S, R3W, U.S.B.&M.
2008' FSL 553' FEL



SCALE: 1" = 50'
DATE: 7-18-97
Drawn By: C.B.T.

NOTE:

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

FLARE PIT



NOTE:
Pit Capacity W/2' of Freeboard is ±4,800 Bbls.

Approx. Top of Cut Slope

10' WIDE BENCH

El. 27.5'
C-10.4'
(btm. pit)

Reserve Pit Backfill & Spoils Stockpile

El. 26.5'
C-1.4'

El. 23.0'
F-2.1'

C-7.4'
El. 32.5'

C-5.8'
El. 30.9'

C-0.6'
El. 25.7'

Sta. 2+90

C-3.8'
El. 28.9'

El. 32.2'
C-15.1'
(btm. pit)

C-2.0'
El. 27.1'

Sta. 1+65

F-3.3'
El. 21.8'

Approx. Toe of Fill Slope

Round Corners as Needed

Sta. 0+00

F-9.0'
El. 16.1'

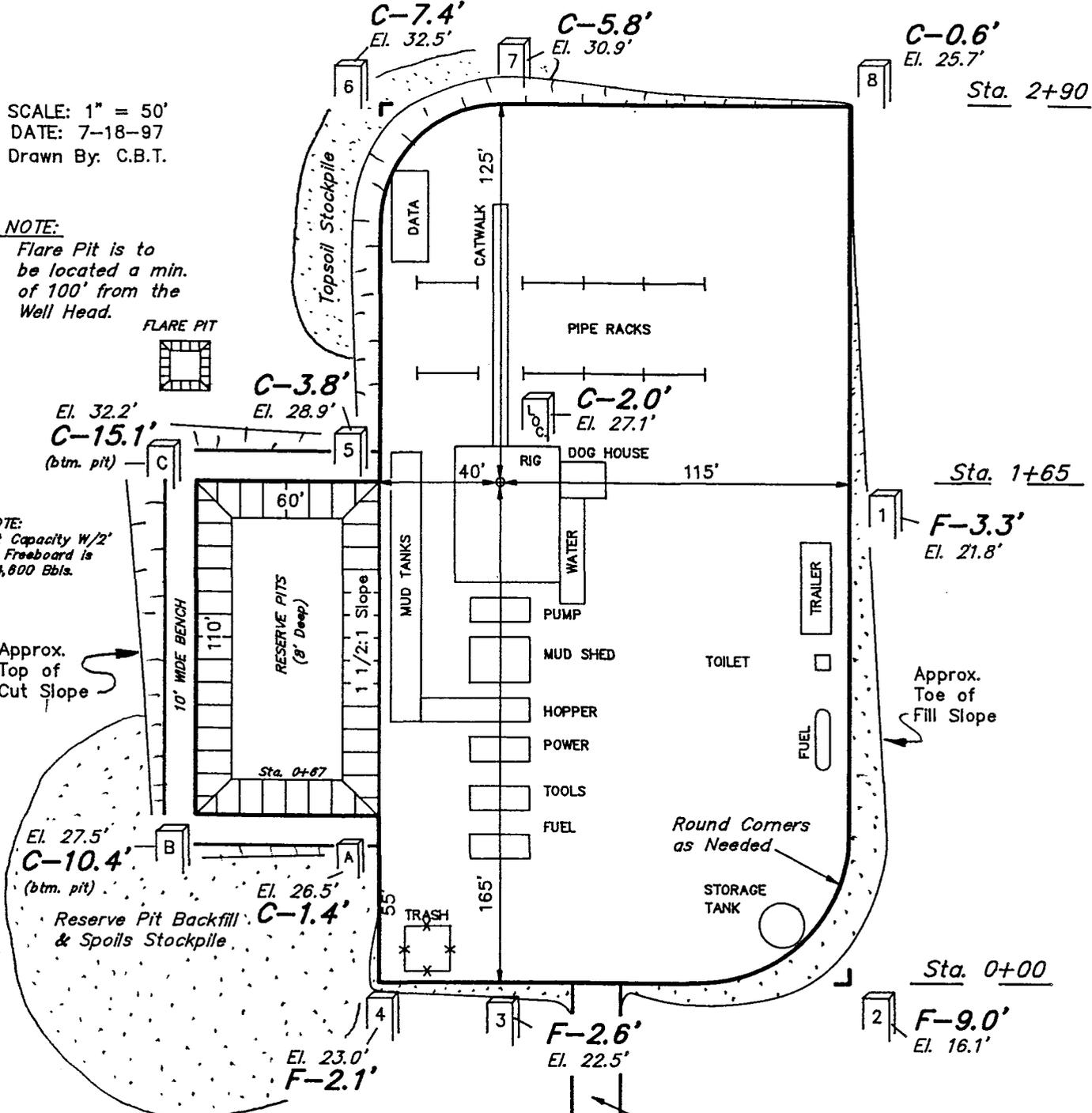
F-2.6'
El. 22.5'

Elev. Ungraded Ground at Location Stake = 5827.1'

Elev. Graded Ground at Location Stake = 5825.1'

Proposed Access Road

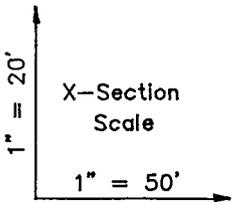
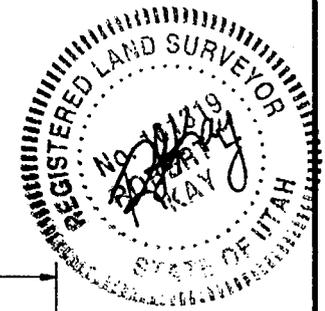
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



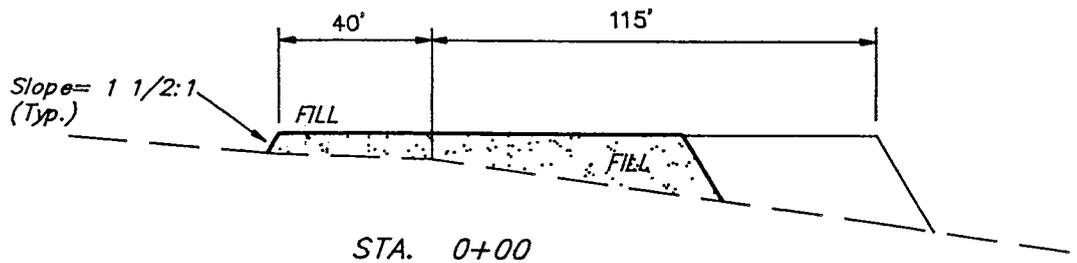
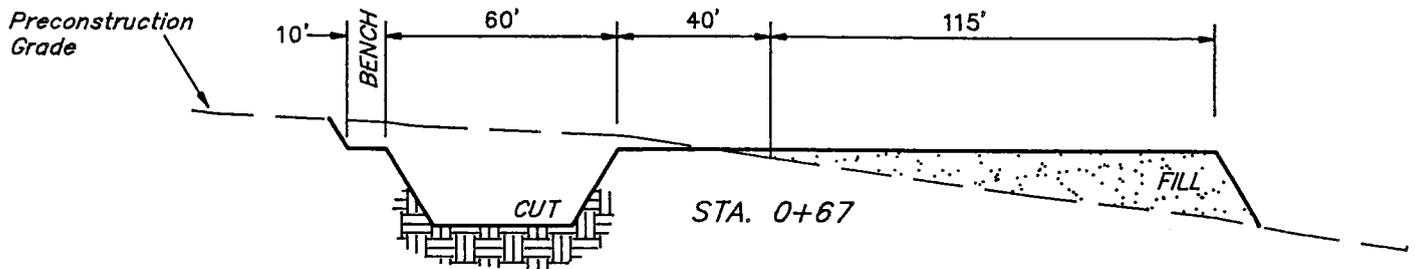
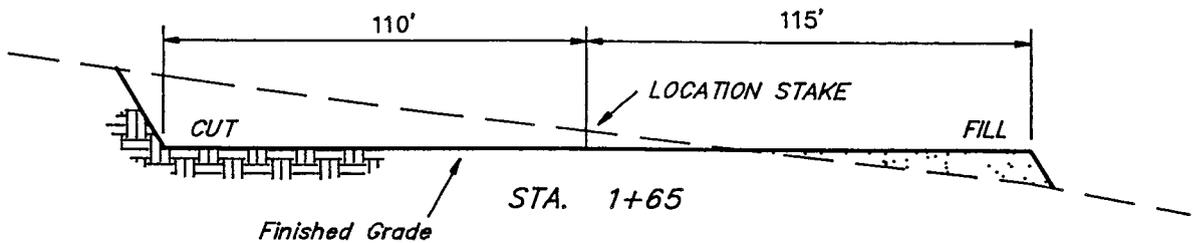
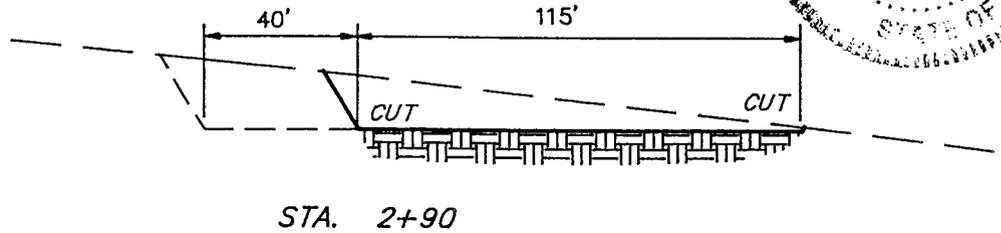
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #33-09-D3
SECTION 33, T4S, R3W, U.S.B.&M.
2008' FSL 553' FEL



DATE: 7-18-97
Drawn By: C.B.T.



NOTE:

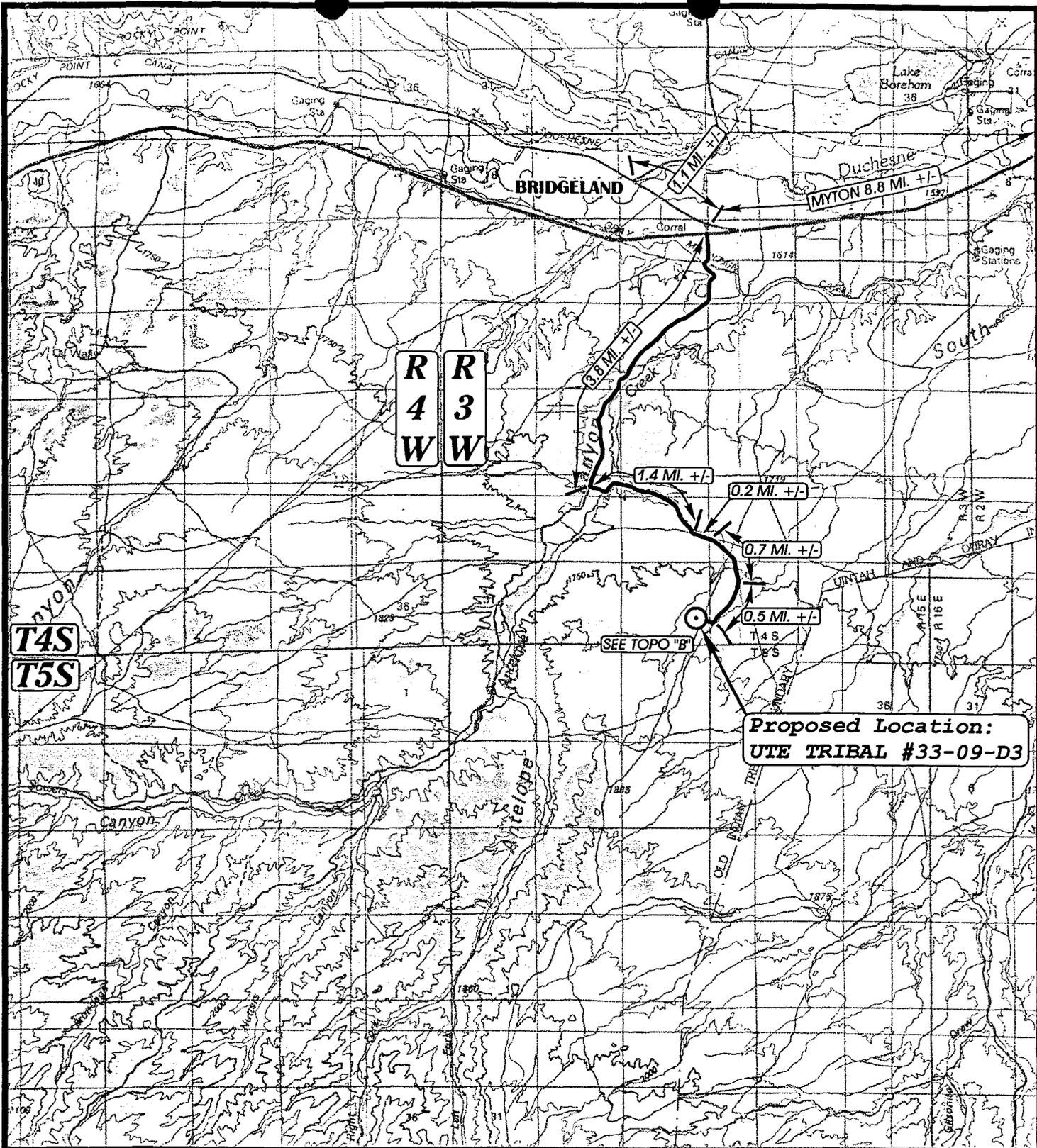
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	960	Cu. Yds.
Remaining Location	=	4,350	Cu. Yds.
TOTAL CUT	=	5,310	CU.YDS.
FILL	=	3,480	CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,650	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,650	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0	Cu. Yds.

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



LEGEND:

⊙ PROPOSED LOCATION

N

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-09-D3
SECTION 33, T4S, R3W, U.S.B.&M.
2008' FSL 553' FEL



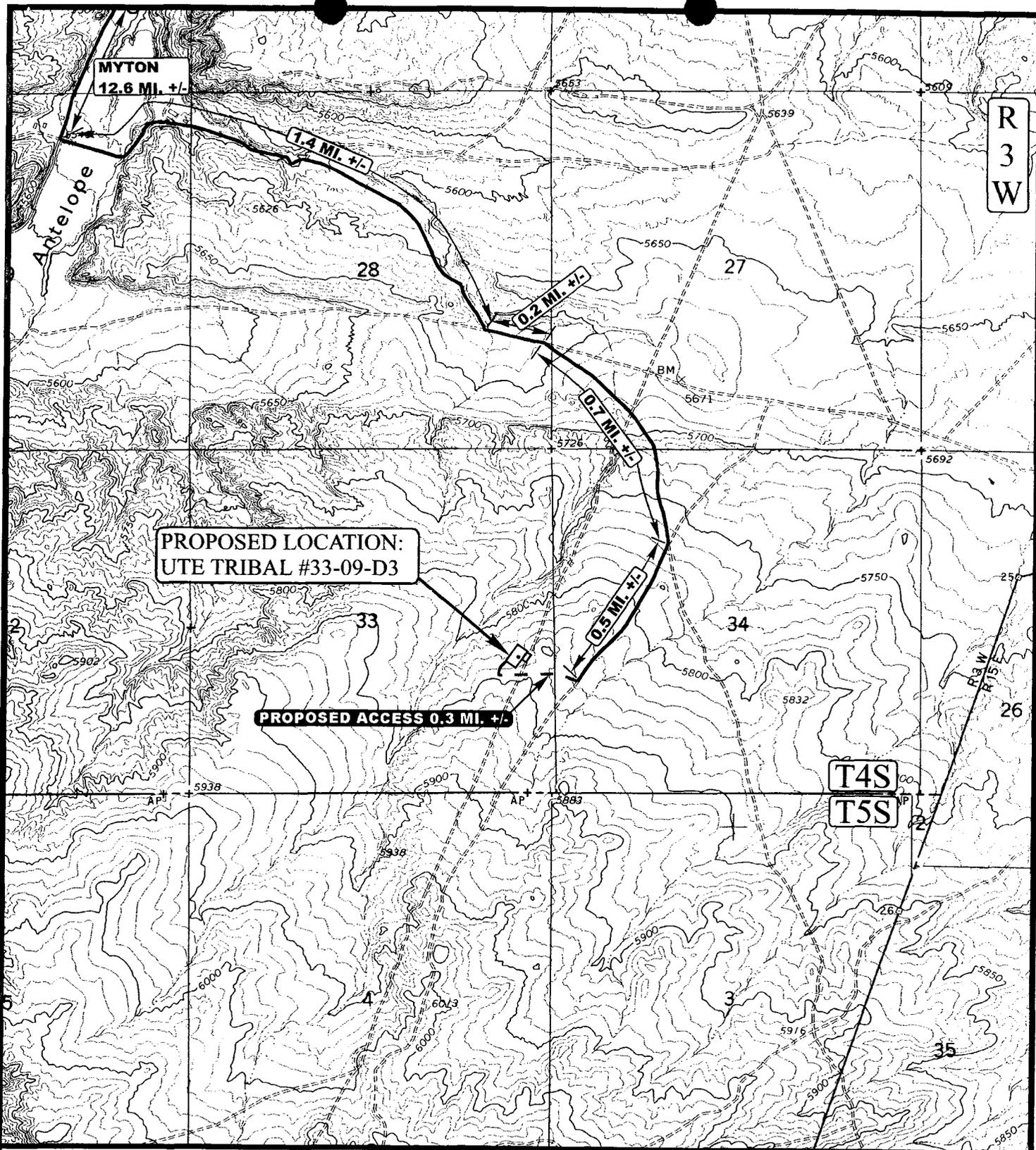
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(801) 789-1017 * FAX (801) 789-1813
Email: ucls@casilink.com

TOPOGRAPHIC
MAP

7 9 97
MONTH DAY YEAR



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



R
3
W

**PROPOSED LOCATION:
UTE TRIBAL #33-09-D3**

PROPOSED ACCESS 0.3 MI. +/-

T4S
T5S

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-09-D3
SECTION 33, T4S, R3W, U.S.B.&M.
2008' FSL 553' FEL



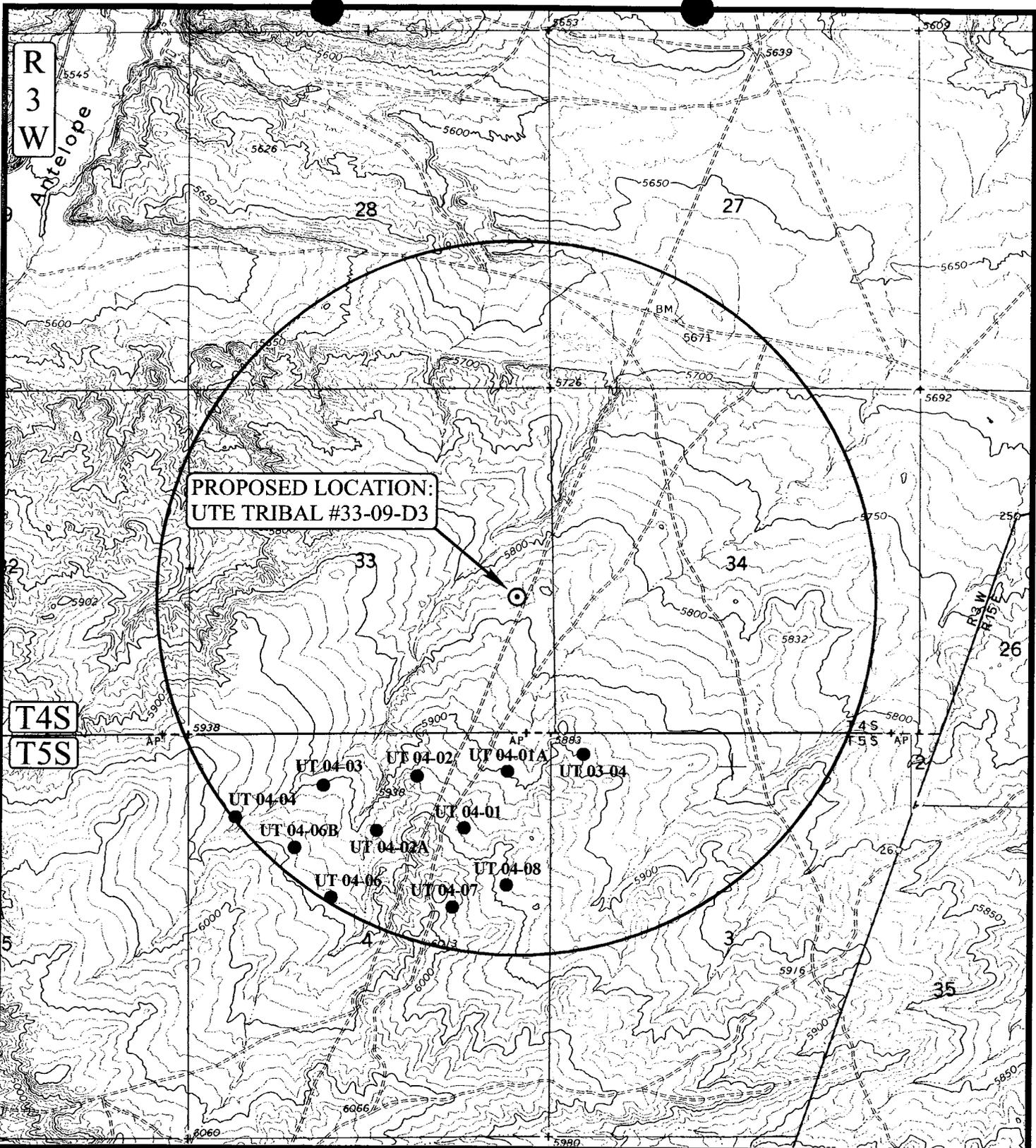
Uintah Engineering & Land Surveying
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(801) 789-1017 * FAX (801) 789-1813
Email: uels@casilink.com

**TOPOGRAPHIC
MAP**

7	9	97
MONTH	DAY	YEAR

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





LEGEND:

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

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #33-09-D3
SECTION 33, T4S, R3W, U.S.B.&M.
2008' FSL 553' FEL



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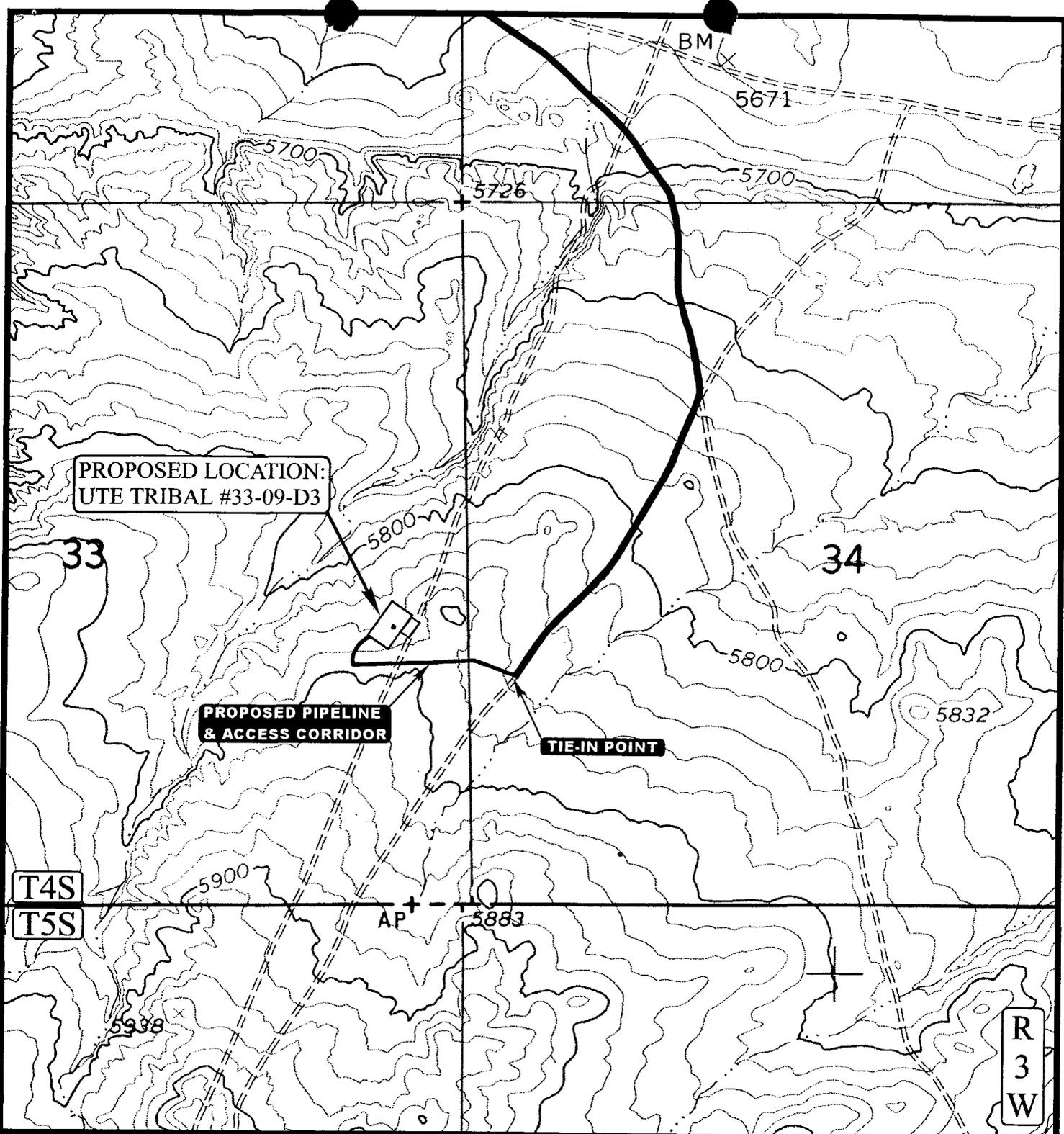


**TOPOGRAPHIC
MAP**

7	10	97
MONTH	DAY	YEAR

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





APPROXIMATE TOTAL CORRIDOR DISTANCE = 1275' +/-

LEGEND:

	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED ACCESS

PETROGLYPH OPERATING CO., INC.
 UTE TRIBAL #33-09-D3
 SECTION 33, T4S, R3W, U.S.B.&M.
 2008' FSL 553' FEL



UCLs
 Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (801) 789-1017 * FAX (801) 789-1813
 Email: ucls@casilink.com

TOPOGRAPHIC MAP	7	10	97	D TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 1000'	DRAWN BY: J.L.G.	REVISED: 00-00-00		

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/20/97

API NO. ASSIGNED: 43-013-31934

WELL NAME: UTE TRIBAL 33-9-D3
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:
NESE 33 - T04S - R03W
SURFACE: 2008-FSL-0553-FEL
BOTTOM: 2008-FSL-0553-FEL
DUCHESNE COUNTY
UNDESIGNATED FIELD (002)

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

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-4736

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Federal State Fee
 (Number 4556)

Potash (Y/N)
 Oil shale (Y/N)
 Water permit
 (Number H3-10152)

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

LOCATION AND SITING:

___ R649-2-3. Unit: _____

R649-3-2. General.

___ R649-3-3. Exception.

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

COMMENTS: Cont. status req.

STIPULATIONS: _____



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)

September 15, 1997

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

Re: Ute Tribal 33-09-D3 Well, 2008' FSL, 553' FEL, NE SE,
Sec. 33, T. 4 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 43-013-31934.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company
Well Name & Number: Ute Tribal 33-09-D3
API Number: 43-013-31934
Lease: 14-20-H62-4736
Location: NE SE Sec. 33 T. 4 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 Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

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.

DOGMT

Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

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 CO., INC.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 2008' FSL & 553' FEL NE/SE
 At proposed prod. zone

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 553'

16. NO. OF ACRES IN LEASE 617.20

17. NO. OF ACRES ASSIGNED TO THIS WELL 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6553'

19. PROPOSED DEPTH 6553'

20. ROTARY OR CABLE TOOLS ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5825.1' GRADED GROUND

22. APPROX. DATE WORK WILL START* AUGUST 1997

5. LEASE DESIGNATION AND SERIAL NO.
 14-20-H62-4736

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO.
 UTE TRIBAL

9. API WELL NO.
 #33-09-D3

10. FIELD AND POOL, OR WILDCAT
 ANTELOPE CREEK

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 SEC. 33, T4S, R3W

12. COUNTY OR PARISH DUCHESNE

13. STATE UTAH

RECEIVED
AUG 18 1997

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11 PPG) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+5% EXCESS).
7 7/8"	5 1/2"	15.5#	6553'	

RECEIVED
SEP 17 1997
DIV. OF OIL, GAS & MINING

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

pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah

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

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 8-14-97

(This space for Federal or State office use)
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR COPY

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 [Signature] TITLE Assistant Field Manager Mineral Resources DATE SEP 12 1997

UT080-7m-403 *See Instructions 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 U.S. Government a false statement or fraudulent statements or representations, or to any member thereof or any individual or corporation, in connection with any matter within the jurisdiction of such department or agency.

MEMORANDUM OF SURFACE USE AND
RIGHT-OF-WAY AGREEMENT

THIS MEMORANDUM WITNESSES:

THAT on the 16th day of June, 1997, between ELMER R MOON AND ARWELLA P MOON, husband and wife, whose address is East Old Highway 40, Duchesne, Utah 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25th 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

Township 4 South - Range 4 West USM

Section 16: S/2 SW/4 less 5 acres SW/4 SW/4 SW/4

Section 18: W/2 SW/4

Section 21: W/2 NW/4, NE/4 NW/4

E 320857 B A0280 P 249
DATE 1-JUL-1997 16:22PM FEE 24.00
CAROLYNE B. MADSEN, RECORDER
FILED BY CRY
FOR ED TROTTER
DUCHEсне COUNTY CORPORATION

Township 4 South - Range 3 West USM

Section 28: S/2 SW/4, SW/4 SE/4

Section 29: S/2 SE/4

Section 31: E/2 SE/4

Section 33: W/2, W/2 NE/4, W/2 SE/4, NE/4 SE/4

Township 5 South - Range 3 West USM

Section 6: E/2 NE/4

Containing 1,152.64 acres, more or less.

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25th day of JUNE, 1997.

GRANTOR ELMER R MOON AND ARWELLA P MOON

By: Elmer R. Moon

By: Arwella P. Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed Gratter
Its: Agent

ACKNOWLEDGMENTS

STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by ELMER R MOON AND ARWELLA P MOON, husband and wife.

Charlotte Jensen
Notary Public
Residing in: Duchesne, ut

Commission Expires:

5-2-98

ACKNOWLEDGMENT

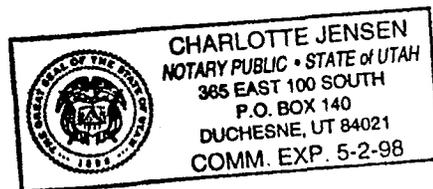
UTAH
STATE OF ~~KANSAS~~)
 : ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by Ed Gratter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen
Notary Public
Residing in: Duchesne, ut

My Commission Expires:

5-2-98



MEMORANDUM OF SURFACE USE AND
RIGHT-OF-WAY AGREEMENT

THIS MEMORANDUM WITNESSES:

THAT on the 16th day of June, 1997, between ORVEN J MOON AND DELPHIA N MOON, TRUSTEES, whose address is East Highway, Neola, Utah 84053 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25th 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

Township 4 South - Range 3 West USM

Section 16: SW/4 SW/4

Section 27: All

Section 28: SE/4 SE/4

Section 33: E/2 NE/4, SE/4 SE/4

Section 34: All

Containing 1,450.00 acres, more or less.

E 320862 B A0280 P 259
DATE 1-JUL-1997 16:26PM FEE 17.00
CAROLYNE B. MADSEN, RECORDER
FILED BY CRY
FOR ED TROTTER
DUCHEсне COUNTY CORPORATION

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25th day of June, 1997.

GRANTOR ORVEN J MOON AND DELPHIA N MOON, TRUSTEES

By: *Orven J Moon*
By: *Delphia N. Moon*

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: *Ed Trotter*
Its: Agent

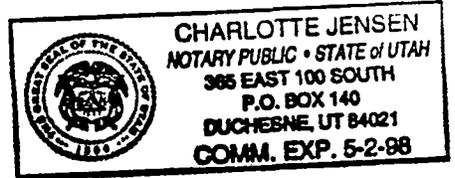
KNOWLEDGMENTS

STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by ORVEN J MOON AND DELPHIA N MOON, TRUSTEES.

Charlotte Jensen
Notary Public
Residing in: Duchesne, UT

Commission Expires:
5-2-98



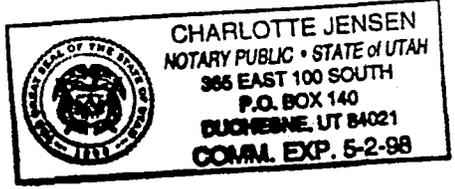
ACKNOWLEDGMENT

STATE OF ~~KANSAS~~ Utah)
 : ss.
COUNTY OF Duchesne)

The foregoing instrument was acknowledged before me this 25th day of June, 1997 by Ed Trotter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen
Notary Public
Residing in: Duchesne, UT

My Commission Expires:
5-2-98



**SITE SPECIFIC
ENVIRONMENTAL ASSESSMENT**

1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #33-09-D3, and construct pipelines, and an access road on fee property having mineral rights owned by the Ute Indian Tribe. This environmental assessment is tier off from the Duchesne River Area Environmental Assessment No.3 prepared by Minerals Management Service dated April 1982.

2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 7-28-97
- C. Well number- 33-09-D3
- D. Right-of-way- Access road & pipeline R\W approx. 1275 feet.
- E. Site location NESE, Section 33, T4S, R3W, USB&M.

4.0 SITE SPECIFIC SURVEY

A. SITE DESCRIPTION

- 1. Elevation (feet) 5827
- 2. Annual precipitation (inches)- 10-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") loam

B. VEGETATION

- 1. Habitat type is upland shrub.
- 2. Percent Ground Cover- estimated to be 30%.
- 3. Vegetation consists of approximately 35% grasses, 60% shrubs, 5% forbs. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, flox, daisy, Indian paint brush, & annuals. Shrubs consist of black sagebrush, fring sage, bud sage, prickly pear,

winterfat, shadscale, snakeweed, greasewood, rabbit brush, spiny horsebrush.

4. Observed Threatened & Endangered species: None.
5. Potential For Threatened & Endangered species: Slight
7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope. (elk & mule deer use this area most during winter months.)
2. Small Game-The area is used by cottontail rabbit.
3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 4.0 miles south of the site in Section 20, T5S, R3W, USB&M.
5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.
6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

4.2 PRESENT SITE USE

A. USAGE

	<u>acres</u>
Rangeland	3.18
Irrigable land	0
Woodland	0
Non-Irrigable land	3.18
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

4.3 CULTURAL RESOURCES

A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist. No archaeological sites were found within the project area.

5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.00
2. Well site	1.43
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	1.75
5. Total area disturbed	3.18

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.21
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:
Yes No X

C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any point source of water pollution.

There are no wetlands or riparian areas which will be affected by this project.

The area is presently used as rangeland. This project will reduce livestock grazing by approximately 0.21 AUM/year. The land surface is in fee ownership. It is grazed by sheep and cattle. Dust from wellsite construction and travel along access roads may cause dust to settle on vegetation. The dust collecting on plant surfaces may adversely affect the grazing of the area adjacent to the access roads by livestock and wildlife.

Because of additional oilfield activity there will be an increase in traffic using the area. The increased traffic may disturb livestock or result in larger numbers of livestock injury or death from vehicle accidents.

The area is not used as irrigated cropland and a water right has not been designated for the area.

Reserve pits will be constructed on each wellsite. These pits contain bentonite clay, barite, cellulose, well cuttings, by-products from hydrocarbons, and other additives which have been approved by the Environmental

Protection Agency for drilling oil & gas wells. Within 90 days after the completion of the well the reserve pits are normally filled in and contoured to blend into the approximate elevation of the soil surface.

Small disposal pits may also be used after the well starts into production. These pits may be used to dispose of up to 5.0 barrels of produced water per day. Produced water contains high concentrations of salt, hydrocarbons, etc. Also trash and other foreign material may be disposed of in these pits.

Construction of the wellsite and access roads and pipelines often require deep cuts and fills, and often large amounts of rocks are exposed to the soil surface. When the wellsite is re-contoured and rehabilitated and revegetated, there will normally be a scar left on the soil surface which can may be visible to people using the area.

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be a small reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

6.0 MITIGATION STIPULATIONS

Because the area is owned by a private individual the company will comply with the private land owners request on all mitigative measures.

7.0 UNAVOIDABLE ADVERSE IMPACTS

A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated

environmental impacts will continue to influence the surrounding area for the productive life of the well.

2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 8-20-97, the proposed location in the following areas of environmental impacts has been cleared:

<u> X </u>	Yes	<u> </u>	No	Listed Threatened & Endangered species
<u> X </u>	Yes	<u> </u>	No	Critical wildlife habitat
<u> X </u>	Yes	<u> </u>	No	Historical and cultural resources
<u> X </u>	Yes	<u> </u>	No	Floodplain
<u> X </u>	Yes	<u> </u>	No	Wetlands

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

11.0 RECOMMENDATIONS

A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

8-21-97

Date

Dale S. Hanberg
Representative - BIA Land
Operations, Uintah and Ouray
Agency

12.0 DECLARATION

A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

8/21/97

Date

[Signature]
Superintendent,
Uintah and Ouray Agency

14.0 CONSULTATION

A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA
Ed Trotter-Petroglyphs
Lonnie Nephi-UTEM
Greg Darlington-BLM

B:\EAPet309.MD3

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company

Well Name & Number: Ute Tribal 33-09-D3

API Number: 43-013-31934

Lease Number: 14-20-H62-4736

Location: NESE Sec. 33 T. 4S R. 3W

NOTIFICATION REQUIREMENTS

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

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

3. Casing Program and Auxiliary Equipment

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

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at ± 340 ft. or by setting the surface casing at ± 390 ft.. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

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

5. Coring, Logging and Testing Program

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

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and 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 **TOP OF CEMENT** if the surface casing is set at ± 390 ft. or it will be run to **SURFACE** if the surface casing is set at ± 250 ft. 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. One copy of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

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

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

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

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

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

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

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

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

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

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

7. Other Information

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

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

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

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

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

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

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

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

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

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert (801) 789-4170
Petroleum Engineer

Ed Forsman (801) 789-7077
Petroleum Engineer

Jerry Kenczka (801) 789-1190
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, spend 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 Bureau of Indian Affairs Site Specific Environmental Analysis states that.

"The area is owned by a private individual. Petroglyph will comply with the private landowner's request on all mitigative measures."

(Elmer R. Moon and Arwella P. Moon)---Wellpad and part of the access

(Orven J. and Delphia N. Moon)---rest of the new access road

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.

(2)

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

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE

WELL NAME UTE TRIBAL #33-09D3W API NO 43-013-31934

QTR/QTR: NE/SE SECTION: 33 TWP: 4S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L INGRAM TIME: 1:45 PM DATE: 10/20/97

SPUD DATE: DRY: 10/21/97 ROTARY: 10/21/97 PROJECTED T.D.: 6533'

OPERATIONS AT TIME OF VISIT: RIGGING UP DRILLING RIG AND
CHANGING BRAKE BLOCKS ON DRAWWORKS.

WELL SIGN: NEVER MUD WEIGHT N/A LBS/GAL BOPE: NO

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: N/A,

REMARKS:

(LAST HOLE WAS UT #33-14D3, T.D.'D ON 10/19/97 AT 6494 FEET,
AND RAN 146 JOINTS OF 5 ½" CASING TO BOTTOM). RIG UP TRUCKS
JUST LEFT LOCATION--ALL EQUIPMENT IS IN PLACE. JEFF WHITE,
THE TOOLPUSHER, SAYS THEY SHOULD SPUD BY 6:00 AM ON 10/21/97.
HE PLANS TO WORK ON RIG UNTIL TOMORROW. THEY ALSO PLAN ON
SETTING 450 FEET OF SURFACE PIPE.

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

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE
WELL NAME UTE TRIBAL #33-09D3W API NO 43-013-31934
QTR/QTR: NE/SE SECTION: 33 TWP: 4S RANGE: 3W
CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16
INSPECTOR: DENNIS L INGRAM TIME: 1:45 PM DATE: 10/20/97
SPUD DATE: DRY: 10/21/97 ROTARY: 10/21/97 PROJECTED T.D.: 6533'

OPERATIONS AT TIME OF VISIT: RIGGING UP DRILLING RIG AND
CHANGING BRAKE BLOCKS ON DRAWWORKS.

WELL SIGN: NEVER MUD WEIGHT N/A LBS/GAL BOPE: NO
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: N/A,

REMARKS:

(LAST HOLE WAS UT #33-14D3, T.D.'D ON 10/19/97 AT 6494 FEET,
AND RAN 146 JOINTS OF 5 1/2" CASING TO BOTTOM). RIG UP TRUCKS
JUST LEFT LOCATION--ALL EQUIPMENT IS IN PLACE. JEFF WHITE,
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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE

WELL NAME UTE TRIBAL #33-09D3W API NO 43-013-31934

QTR/QTR: NE/SE SECTION: 33 TWP: 4S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L INGRAM TIME: 1:10 PM DATE: 10/28/97

SPUD DATE: DRY: 10/21/97 ROTARY: 10/21/97 PROJECTED T.D.: 6533'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD @ 6404.

WELL SIGN: NO MUD WEIGHT 8.4 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, 1800 PSI ON
MANIFOLD; 2800 PSI ON ACCUMULATOR.

REMARKS:

(LAST HOLE WAS UT #33-14D3, T.D.'D ON 10/19/97 AT 6494 FEET,
AND RAN 146 JOINTS OF 5 1/2" CASING TO BOTTOM). DRILLER SAYS
THEY SHOULD REACH TOTAL DEPTH BY TOMORROW MORNING. RESERVE PIT
HAS 1/2 COVERING OF BLACK CRUDE OIL PRESENT. SURVEYS SHOW 1 1/2
DEGREES @ 6300'; 1 1/2 DEGREES @ 5800'; 1 DEGREES @ 4300'; 2
DEGREES @ 2155'; 3/4 DEGREES @ 1077'.

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

OPERATOR: PETROGLYPH OPERATING CO COMPANY REP: CHUCK WHITE

WELL NAME UTE TRIBAL #33-09D3W API NO 43-013-31934

QTR/QTR: NE/SE SECTION: 33 TWP: 4S RANGE: 3W

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #16

INSPECTOR: DENNIS L. INGRAM TIME: 1:10 PM DATE: 10/28/97

SPUD DATE: DRY: 10/21/97 ROTARY: 10/21/97 PROJECTED T.D.: 6533'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD @ 6404.

WELL SIGN: NO MUD WEIGHT 8.4 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,

1800 PSI ON MANIFOLD; 2800 PSI ON ACCUMULATOR.

REMARKS:

(LAST HOLE WAS UT #33-14D3, T.D.'D ON 10/19/97 AT 6494 FEET,

AND RAN 146 JOINTS OF 5 1/2" CASING TO BOTTOM). DRILLER SAYS

THEY SHOULD REACH TOTAL DEPTH BY TOMORROW MORNING. RESERVE PIT

HAS 1/2 COVERING OF BLACK CRUDE OIL PRESENT. SURVEYS SHOW 1 1/2

DEGREES @ 6300'; 1 1/2 DEGREES @ 5800'; 1 DEGREES @ 4300'; 2

DEGREES @ 2155'; 3/4 DEGREES @ 1077'.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

CONFIDENTIAL

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 33-09D3

Api No. 43-013-31934

Section: 33 Township: 4S Range: 3W County: DUCHESNE

Drilling Contractor: UNION

Rig # 16

SPUDDED:

Date: 10/21/97

Time: 7:00 AM

How: ROTARY

Drilling will commence: _____

Reported by: CHUCK WHITE

Telephone NO.: _____

Date: 10/20/97 Signed: JLT

✓

SUBMIT IN DUPLICATE
(See other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
14-20-H62-4736

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1.a. TYPE OF WELL: Oil Well Gas Well Dry Other
b. TYPE OF COMPLETION: New Well Workover Deepen Plug Back Diff. Reserv. Other

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

2. NAME OF OPERATOR
PETROGLYPH OPERATING COMPANY, INC.

CONFIDENTIAL
PERIOD
EXPIRED
ON 1-4-99

9. WELL NO.
Ute Tribal 33-09D3

3. ADDRESS OF OPERATOR
P.O. BOX 607, ROOSEVELT, UT 84066 (435) 722-2531

10. FIELD AND POOL, OR WILDCAT
Antelope Creek

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2008' FSL 553' FEL

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec. 33-T4S-R3W

At top prod. interval reported below

CONFIDENTIAL

14. PERMIT NO.
43-013-31934

DATE ISSUED
9/15/97

12. County or Parish
Duchesne

13. State
Utah

At total depth 6533' RTD

15. DATE SPUDDED 10/22/97

16. DATE T.D. REACHEL 10/28/97

17. DATE COMPLETED (Ready to prod.)
12/4/97

18. ELEVATIONS (DF, RKB, RT, GR, BTC.)*
5835'

19. ELEV. CASINGHEAD
5825'

20. TOTAL DEPTH, MD & TVD
6533'

21. PLUG BACK T.D., MD & TVD
6457' PBTD

22. IF MULTIPLE COMPL., HOW MANY*
4

23. INTERVALS DRILLED BY
ROTARY TOOLS
CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
Green River B11, C6.1, D3.3, D3.4, D7.2, D7.21

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Compensated Neutron Litho Density w/ Gamma Ray, AIT, FMI

27. WAS WELL CORDED
No

28. 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	427'	12-1/4"	20 sxs Class G	
5-1/2"	15.5	6503'	7-7/8"	220 sxs Highfill	
				360 sxs Thixotropic	

29. LINER RECORD

SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5700'	

31. PERFORATION RECORD (Interval, size and number)

CONFIDENTIAL
D7.21 5596-5600' (16 holes)
D7.21 5552-62' (40 holes)
D7.2 5502-08' (24 holes)
D3.4 5320-28' (32 holes)
D3.3 5302-08' (24 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5596-5600' - 5502-08'	21699 gal Boragel, 10000# 16/30 prop
5320-28' & 5302-08'	15018 gal Boragel, 87800# 16/30 prop
4999-5003'	5619 gal Boragel, 28300# 16/30 prop
4606-10'	5325 gal Boragel, 28300# 16/30 prop

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)					
12/16/97	2-1/2" x 1-3/4" x 16' 40 ring PA pump	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
12/20/97	24			114	0	38	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
	1150	24 HR. RATE					

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

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

Heanna Bell

Title Operations Coordinator

Date 1/31/98

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

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	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Ute Tribal 33-09D3							
B Marker	4164						
X Marker	4661						
Y Marker	4693						
Douglas Creek	4804						
B Limestone	5192						
Castle Peak	5804						
Basal Carbonate	6182						
			CONFIDENTIAL				