

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-21335

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
**Texaco Inc. Attention: T. Bliss**

3. ADDRESS OF OPERATOR  
**P. O. Box 2100, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface **NE 1/4 Sec. 28**  
**510' FNL & 660' FEL, Sec. 28**  
 At proposed prod. zone

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**510'**

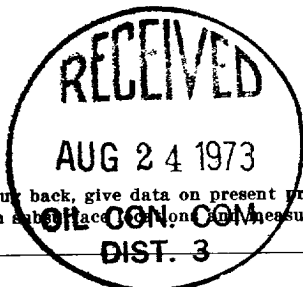
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**1320'**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5687' Gr.**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	100'	Circulate to surface
12-1/4"	9-5/8"	36#	1600'	Circulate to surface
8-3/4"	7"	26#	6370'	Cement 600' above pay zone.

Propose to drill subject well to increase oil recovery from Tocito Dome. Samples will be taken at 10' intervals from 3600' to TD. No cores are planned. A DST is scheduled for the Barker Creek. Logs will be run from surface casing to TD. Prospective zones will be perforated and treated as necessary. Blowout preventor equipment will be 10" Series 600, with blind and pipe rams hydraulically and manually controlled. Blowout equipment will be tested at regular intervals. Necessary steps will be taken to protect the environment.



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

SIGNED Jimmie Bliss TITLE District Superintendent DATE August 21, 1973

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
 USGS (3) OGCC (2) TB ARM CGH The Navajo Tribe  
 Farmington Aztec

\*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-8104**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Navajo Tribe "AL"**

9. WELL NO.  
**4**

10. FIELD AND POOL OF WILDCATS  
**Tocito Dome Field rxd**  
**Tocito Field**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 28-T26N-R18W**

12. COUNTY OR PARISH  
**San Juan**

13. STATE  
**N. Mex.**

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

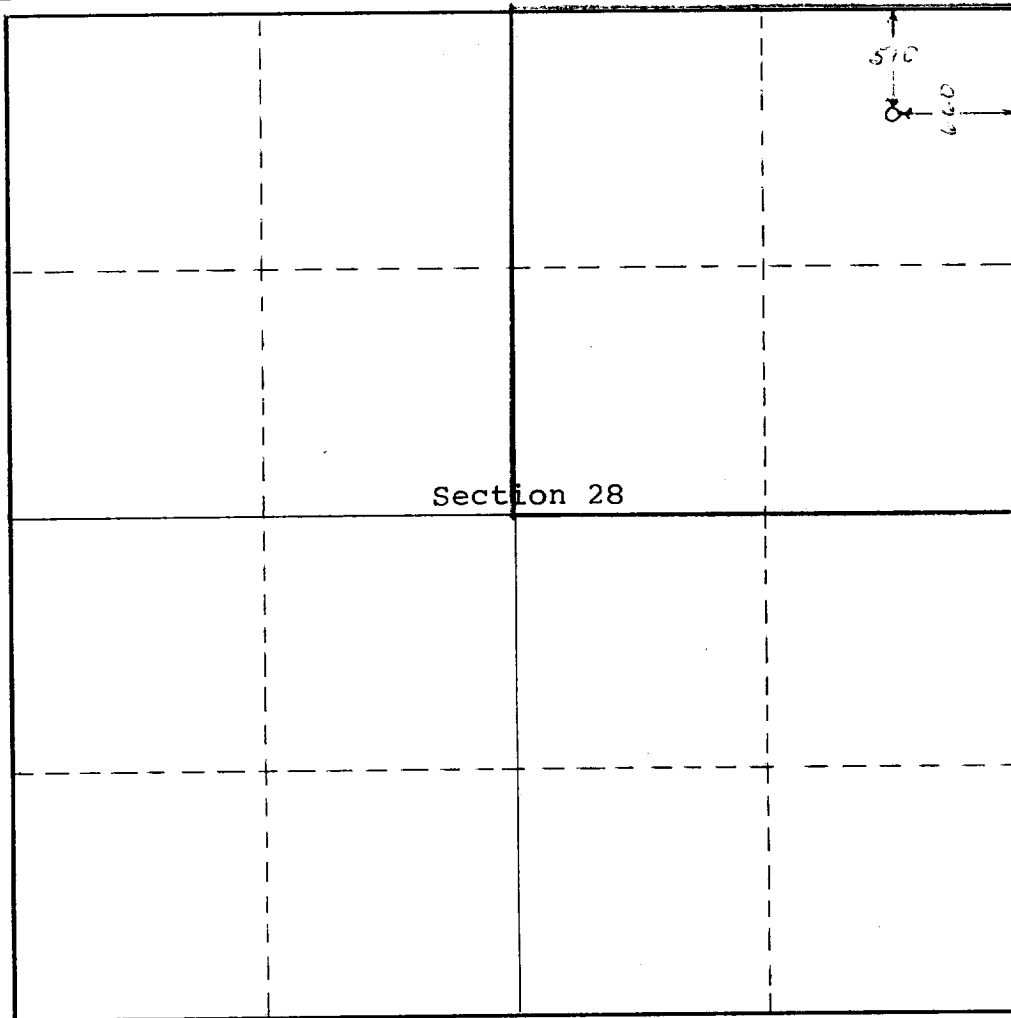
Operator <b>Texaco Inc.</b>		Lease <b>Navajo Tribe "AL"</b>			Well No. <b>4</b>
Unit Letter <b>A</b>	Section <b>28</b>	Township <b>26N</b>	Range <b>18W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>510'</b> feet from the <b>North</b> line and <b>660'</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5687'</b>	Producing Formation <b>Pennsylvanian</b>	Pool <b>Tocito Dome Penn. "D"</b>		Dedicated Acreage: <b>Joint 160</b> Acres <b>with Well No. 1</b>	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

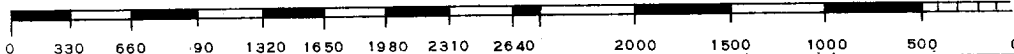
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Tommie Bliss*

Name	<b>Tommie Bliss</b>
Position	<b>Dist. Superintendent</b>
Company	<b>Texaco Inc.</b>
Date	<b>August 30, 1973</b>

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed	
Registered Professional Engineer and/or Land Surveyor	
Certificate No.	



COMPANY Texaco Inc.

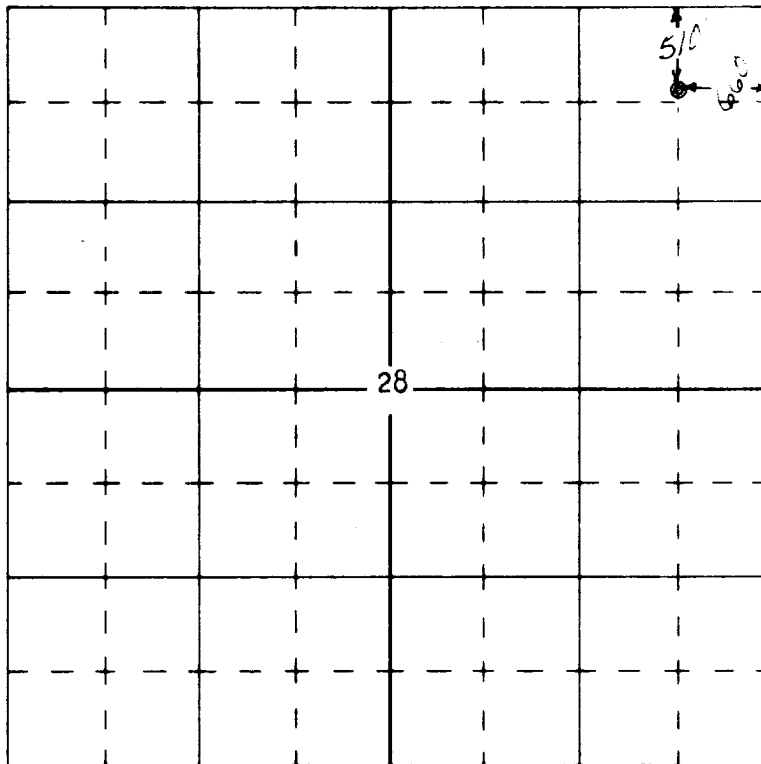
Well Name & No. Navajo Tribe "AL" No. 4 Lease No. \_\_\_\_\_

Location 510 feet from North line and 660 feet from East line

Being in San Juan County, New Mexico

Sec. 28, T.26N., R.18W., N.M.P.M.

Ground Elevation 5687



Scale - 4 inches equals 1 mile

Surveyed August 16, 19 73

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.



E. L. Poteet  
Registered Professional  
Engineer and Land Surveyor.  
Utah Surveyor No. 2533



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT-  
UNITED STATES  
DENVER DIVISION

August 17, 1973

TEXACO INC.  
P. O. BOX 2100  
DENVER, COLORADO 80201

NAVAJO TRIBE "AL" NO. 4  
NE $\frac{1}{4}$  SEC. 28-T26N-R18W  
SAN JUAN COUNTY, NEW MEXICO

Mr. P. T. McGrath (3)  
District Engineer  
U. S. Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Dear Mr. McGrath:

As requested by your office, the Surface Use Development Plan for Navajo Tribe "AL" No. 4, San Juan County, New Mexico, is as follows:

1. Existing roads and exit to the location are shown on the attached plat.
2. Approximately three-tenths of a mile of access road will be required as shown on attached plat.
3. Nearest producing well is located one quarter of a mile to the east in Section 27.
4. Lateral roads in the vicinity of the location are shown on the attached plat.
5. The flowline for the proposed well will run to an existing battery located three quarters of a mile to the southeast of the location, see attached plat.
6. Water for drilling operations will be obtained from the bradenhead annulus of Texaco's Navajo Tribe "AR" No. 1 located three quarters of a mile to the south-east.

August 17, 1973

7. All waste material will be contained by earthen and steel pits. Earthen pits are to be subsequently backfilled and buried.
8. No separate drill campsites are proposed.
9. There are no FAA registered airstrips in the vicinity of the location.
10. The drillsite location will be laid bare and will be approximately 250' x 300'. Proper grading will be used to control erosion on the location. A plat showing the location and rig layout is attached.
11. All surfaces not used in normal well servicing and maintenance will be cleaned and graded, where necessary.
12. The wellsite is located on level, sandy, barren ground, with widely scattered clumps of sage brush and/or tumbleweeds.

Very truly yours,

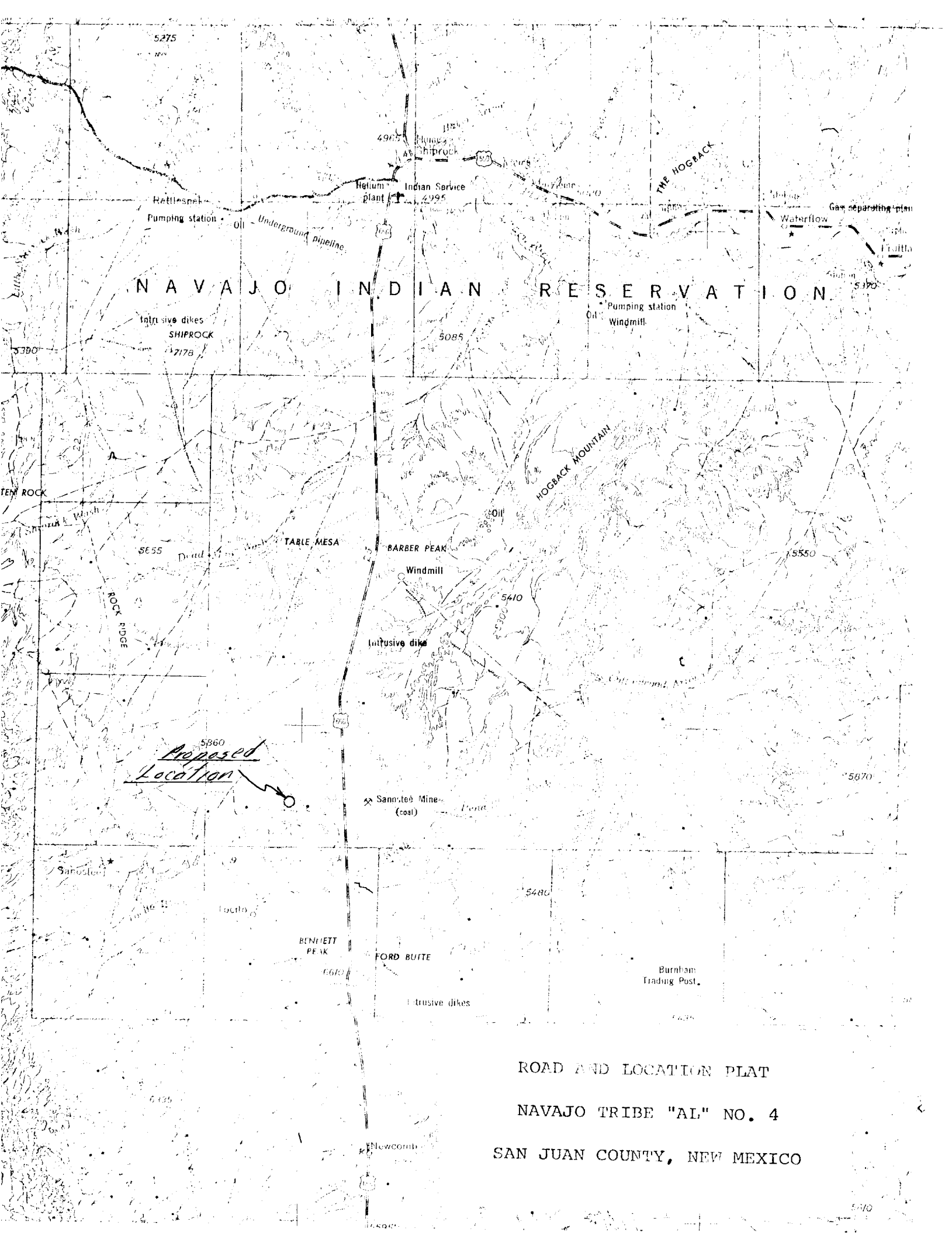


Tommie Bliss  
District Superintendent

FME:WH

Attach.

cc: Board of Oil & Gas Conservation  
P. O. Box 2088  
Santa Fe, New Mexico 87501

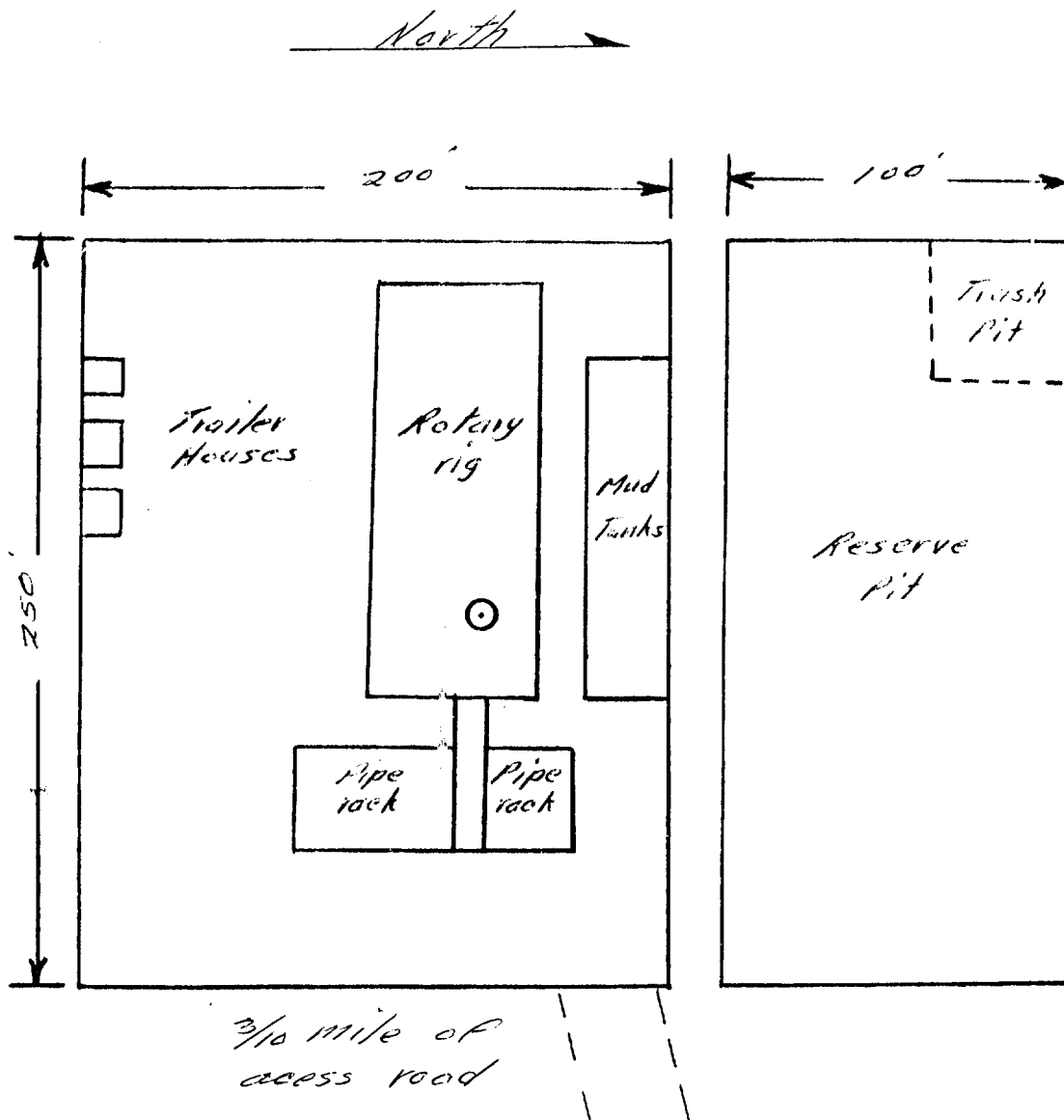


NAVAJO INDIAN RESERVATION

ROAD AND LOCATION PLAT

NAVAJO TRIBE "AL" NO. 4

SAN JUAN COUNTY, NEW MEXICO



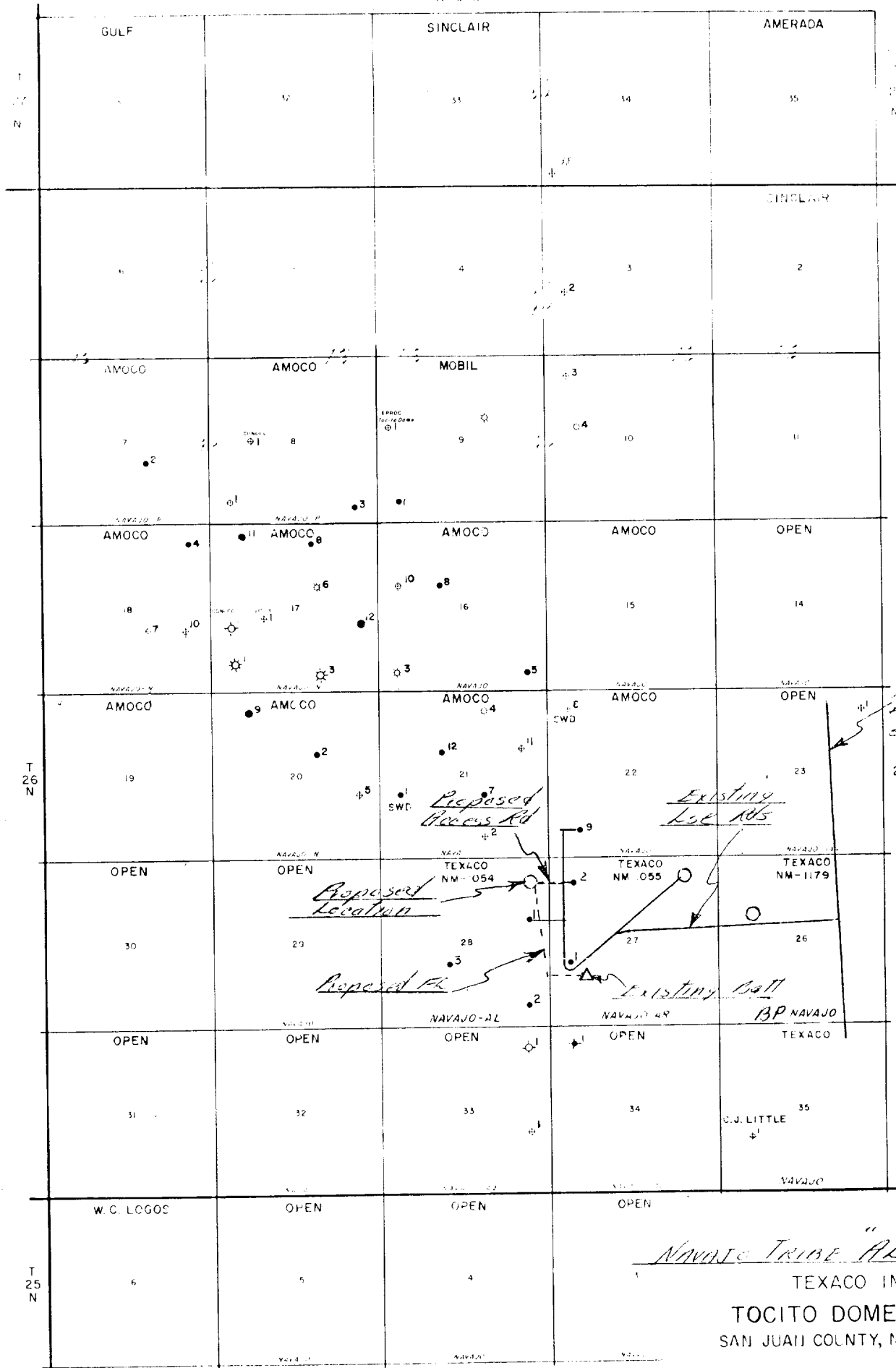
- A. Drilling pad will be compacted soil.
- B. Surface level barren, sandy soil, with scattered sage brush and tumble weeds.

LOCATION AND RIG LAYOUT PLAT

NAVAJO TRIBE "AL" NO. 4

SAN JUAN COUNTY, NEW MEXICO





Highway Aband. to Shiprock

Proposed Access Rd

Existing LSE 105

Proposed Location

Proposed Fl

Existing Well

BP NAVAJO

NAVAJO TRIBE "AL" No. 4

TEXACO INC.  
TOCITO DOME FIELD  
SAN JUAN COUNTY, NEW MEXICO