

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-21592

## 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

NW $\frac{1}{4}$  NW $\frac{1}{4}$  Sec. 23

At proposed prod. zone

600' FNL &amp; 510' FWL, Sec. 23

## 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'

## 16. NO. OF ACRES IN LEASE

--

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

First Well

## 19. PROPOSED DEPTH

6580'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5673' GR

## 22. APPROX. DATE WORK WILL START\*

November 1, 1974

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

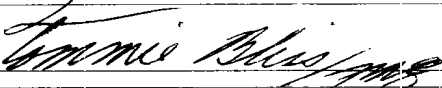
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT       |
|--------------|----------------|-----------------|---------------|--------------------------|
| 17-1/2"      | 13-3/8"        | 48#             | 100'          | Circulate to surface.    |
| 12-1/4"      | 9-5/8"         | 26#             | 1600'         | Circulate to surface.    |
| 8-3/4"       | 7"             | 20, 23, 26#     | 6580'         | Cmt 600' above pay zone. |

Propose to drill subject well to increase oil recovery from Tocito Dome Field. Samples will be taken from surface to TD. 100' of core is planned in the Barker Creek formation one DST is also scheduled for the Barker Creek if shows warrant. Logs will be run from surface casing to TD. Prospective zones will be perforated and treated as necessary. Blowout preventor equipment will be as indicated in the attached exhibit and 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 subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED



TITLE

District Superintendent

DATE

Oct. 17, 1974

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY



TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

USGS (3)  
FarmingtonOGCC (2)  
Aztec

TB

ARM

CGH

The Navajo Tribe

Bureau of Indian  
Affairs

\*See Instructions On Reverse Side

## 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.

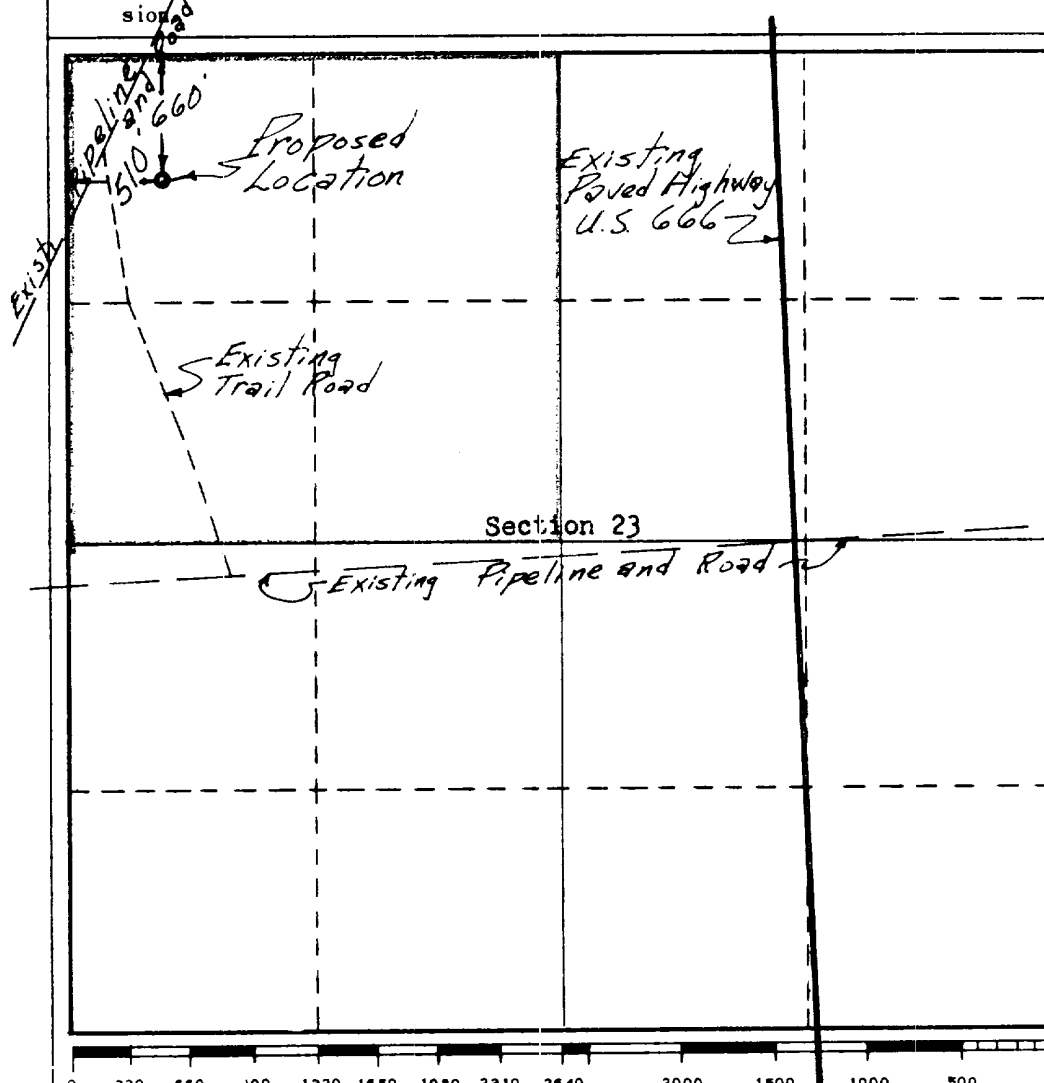
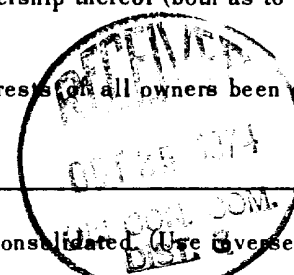
|                                                                                                                              |                                             |                             |                                          |                                        |                      |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------|------------------------------------------|----------------------------------------|----------------------|
| Operator<br><b>Texaco Inc.</b>                                                                                               |                                             |                             | Lease<br><b>Navajo Tribe "3S"</b>        |                                        | Well No.<br><b>1</b> |
| Unit Letter<br><b>D</b>                                                                                                      | Section<br><b>23</b>                        | Township<br><b>26 North</b> | Range<br><b>18 West</b>                  | County<br><b>San Juan</b>              |                      |
| Actual Footage Location of Well:<br><b>660</b> feet from the <b>North</b> line and <b>510</b> feet from the <b>West</b> line |                                             |                             |                                          |                                        |                      |
| Ground Level Elev.<br><b>5673</b>                                                                                            | Producing Formation<br><b>Pennsylvanian</b> |                             | Pool<br><b>Tocito Dome Penn. "D" Ext</b> | Dedicated Acreage:<br><b>160</b> Acres |                      |

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**

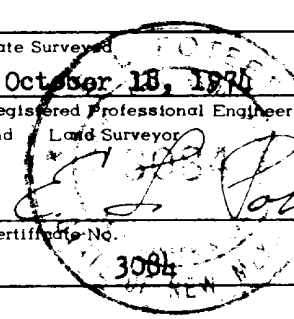
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Tommy Bliss*

Name  
**Tommy Bliss**  
 Position  
**District Superintendent**  
 Company  
**Texaco Inc.**  
 Date  
**October 21, 1974**

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  
**October 18, 1974**  
 Registered Professional Engineer and Land Surveyor  
*E. J. Poteet*  
 Certificate No. **3084**





PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
ROCKY MOUNTAINS-U.S.  
DENVER DIVISION

October 17, 1974

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

NAVAJO TRIBE "BS" WELL NO. 1  
SAN JUAN COUNTY, NEW MEXICO  
0.34

Mr. P. T. McGrath (3)  
District Engineer  
U. S. Geological Survey  
P. O. Box 539  
Farmington, New Mexico 87401

Dear Mr. McGrath:

As requested by your office, the following information is provided for the drilling of Navajo Tribe "BS" Well No. 1, San Juan County, New Mexico:

1. SURFACE CASING: 1600' of 9-5/8" OD 26# K-55 ST&C, SH.
2. CASINGHEAD: 10-3/4" x 10" Series 600, 1000# pressure rating.
3. PRODUCTION CASING: 7" OD 20, 23, 26# K-55 ST&C, SH, surface to TD.
4. BLOWOUT PREVENTERS: 10" Series 600 with blind and pipe rams (see attached drawing).
5. AUXILIARY EQUIPMENT:
  - (a) Kelly cock will be used at all times and checked daily.
  - (b) Safety sub with full opening valve for drill pipe on floor.
  - (c) Manifold as shown on attached drawing.
6. ANTICIPATED BOTTOM HOLE PRESSURE: 2000 PSI.
7. DRILLING FLUID: Water and water-base mud.

Very truly yours,

  
Tommie Bliss  
District Superintendent

DRD:RB

Attach.



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
ROCKY MOUNTAINS-U. S.  
DENVER DIVISION

October 17, 1974

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

**SURFACE USE DEVELOPMENT PLAN  
NAVAJO TRIBE "BS" WELL NO. 1  
NW $\frac{1}{4}$  NW $\frac{1}{4}$  SEC. 23 T26N-R18W  
SAN JUAN COUNTY, NEW MEXICO  
6.34**

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 "BS" Well No. 1, San Juan County, New Mexico, is as follows:

1. Existing roads and exit to the location are shown on the attached plat.
2. The proposed access road will be approximately 2200' by 25' wide which will include 150' of new construction and the remainder regrading of an old trail. The road surface will be dirt. See road plats attached.
3. The proposed location is a development well with the closest well approximately 1/2 mile to the west.
4. Roads in the vicinity of the location are shown on the attached plat.
5. Present plans are to locate all initial test facilities on the wellsite. Proposed flowline will run approximately two miles to the southwest to an existing battery. See attached plat.
6. Water for drilling operations will be obtained from the bradenhead annulus of Texaco's Navajo Tribe "AI," No. 2, located approximately 2-1/4 miles to the southwest.
7. All drilling mud will be contained by the reserve pit and steel tanks. Barthen pits are to be subsequently backfilled and buried. Waste material will be disposed of in a fenced trash pit where it can be burned and/or buried when well is completed.

Mr. P. T. McGrath

- 2 -

October 17, 1974

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 gentle sloping, sandy, barren ground, with widely scattered clumps of sage brush and/or tumble weeds. Approximate 2' cut will be required on the west edge of the location with natural drainage to the east.

Very truly yours,

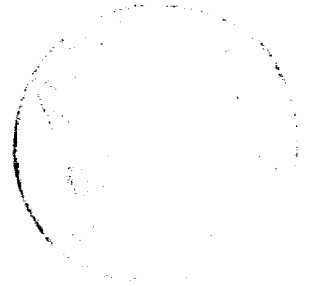


Tommie Bliss  
District Superintendent

FME:RB

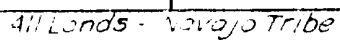
Attach.

cc: Board of Oil & Gas Conservation  
1000 Rio Brazos Road  
Aztec, New Mexico 87501





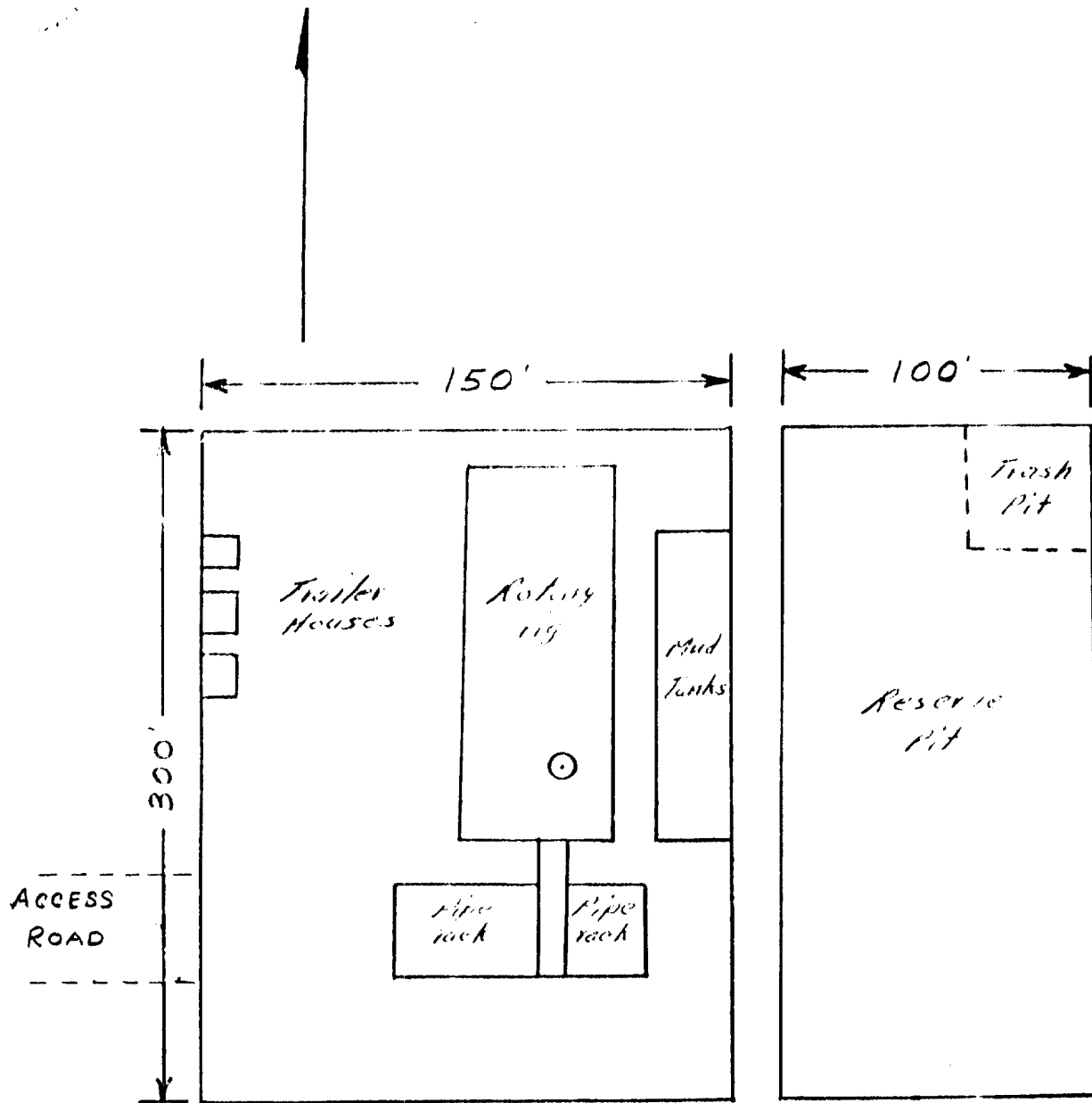
R 17 W



ROAD AND LOCATION PLAT  
NAVAJO TRIBE "BS"  
WELL NO. 1  
SAN JUAN COUNTY, NEW MEX.

TOCITO DOME FIELD  
SAN JUAN COUNTY NEW MEXICO

Scale. 1 = 4000'      2-20-74



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

LOCATION AND RIG LAYOUT PLAT

NAVAJO TRIBE "BS" WELL NO. 1

NW $\frac{1}{4}$  NW $\frac{1}{4}$  SEC. 23 T26N-R18W

SAN JUAN COUNTY, NEW MEXICO