

30-045-21626

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
 SINGL 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 NE 1/4 Sec. 34
 At proposed prod. zone
660' FNL & 660' FEL, Sec. 34

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)
660'

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.
2000'

19. PROPOSED DEPTH
6480'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5607' GR

22. APPROX. DATE WORK WILL START*
January 15, 1975

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"	20, 23, 26#	6480'	Cement 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 and one DST is 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 preventer 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 *Tommy Bliss* TITLE **District Superintendent** DATE **Jan. 3, 1975**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *[Signature]* TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

USGS (3) Farmington OGCC (2) Aztec TB ARM CGH Bureau of Indian Affairs The Navajo Tribe

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.

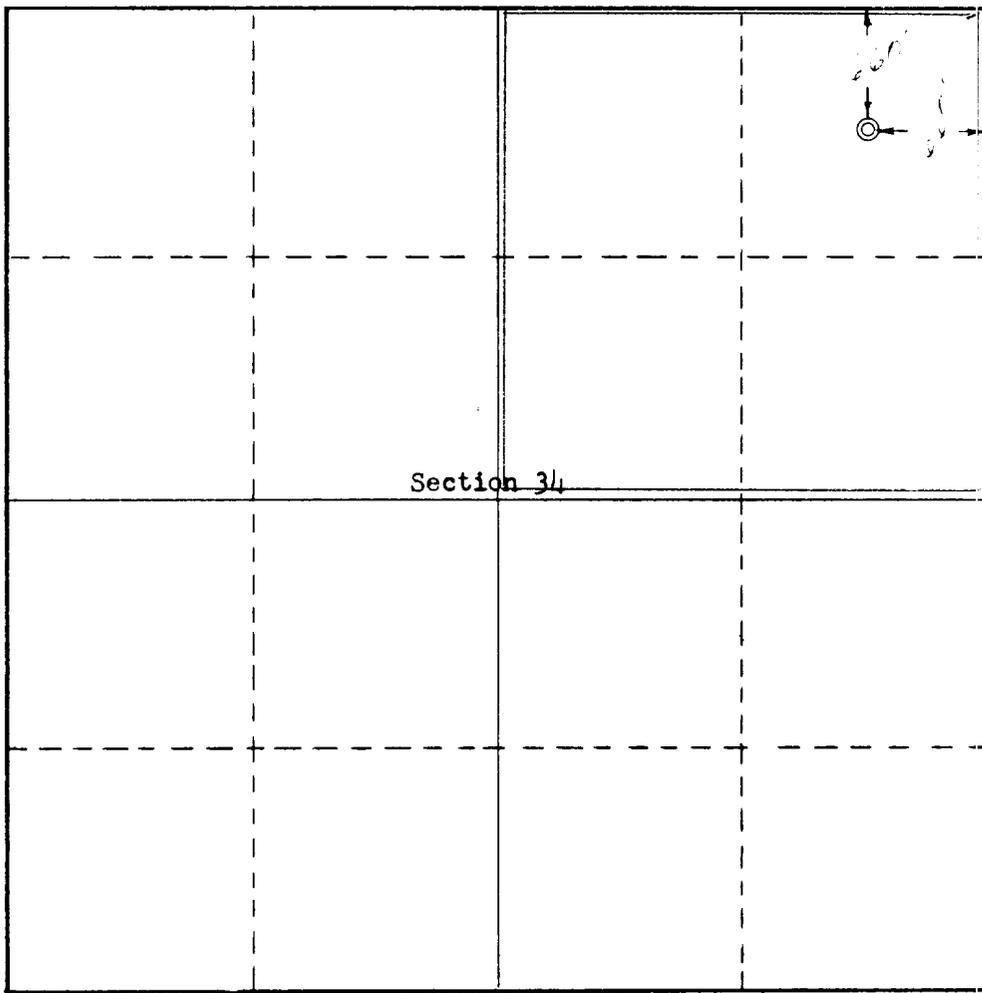
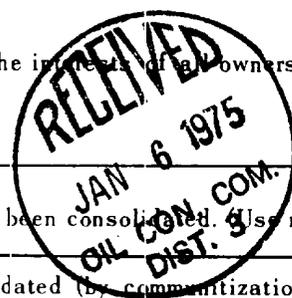
Operator Texaco Inc.		Lease Navajo Tribe "BU"			Well No. 1
Unit Letter A	Section 34	Township 26 North	Range 18 West	County San Juan	
Actual Footage Location of Well: 660 feet from the North line and 660 feet from the East line					
Ground Level Elev. 5607	Producing Formation Pennsylvanian		Pool Tocito Dome	Dedicated Acreage: 160 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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
Tommie Bliss

Position
District Superintendent

Company
Texaco Inc.

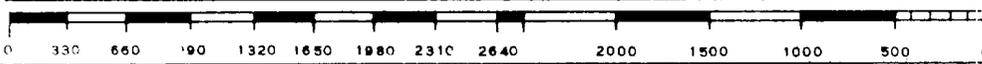
Date
December 18, 1974

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
December 16, 1974

Registered Professional Engineer and Land Surveyor
3081

Certificate No.
3084





PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
ROCKY MOUNTAINS-U. S.
DENVER DIVISION

January 3, 1975

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

NAVAJO TRIBE "BU" WELL NO. 1
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC. 34 T26N-R19W
SAN JUAN COUNTY, NEW MEXICO
6.34

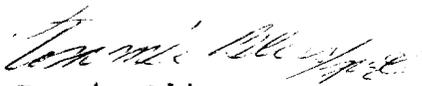
Mr. P. T. McGrath (3)
District Engineer
U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Dear Mr. McGrath:

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

1. SURFACE CASING: 1600' of 9-5/8" OD 36# K-55 ST&C, SH.
2. CASINGHEADS: 10-3/4" x 10" Series 600, 2000# pressure rating.
3. PRODUCTION CASING: 6480' of 7" OD 20, 23, 26# K-55 ST&C, SH.
4. BLOWOUT PREVENTER: 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,

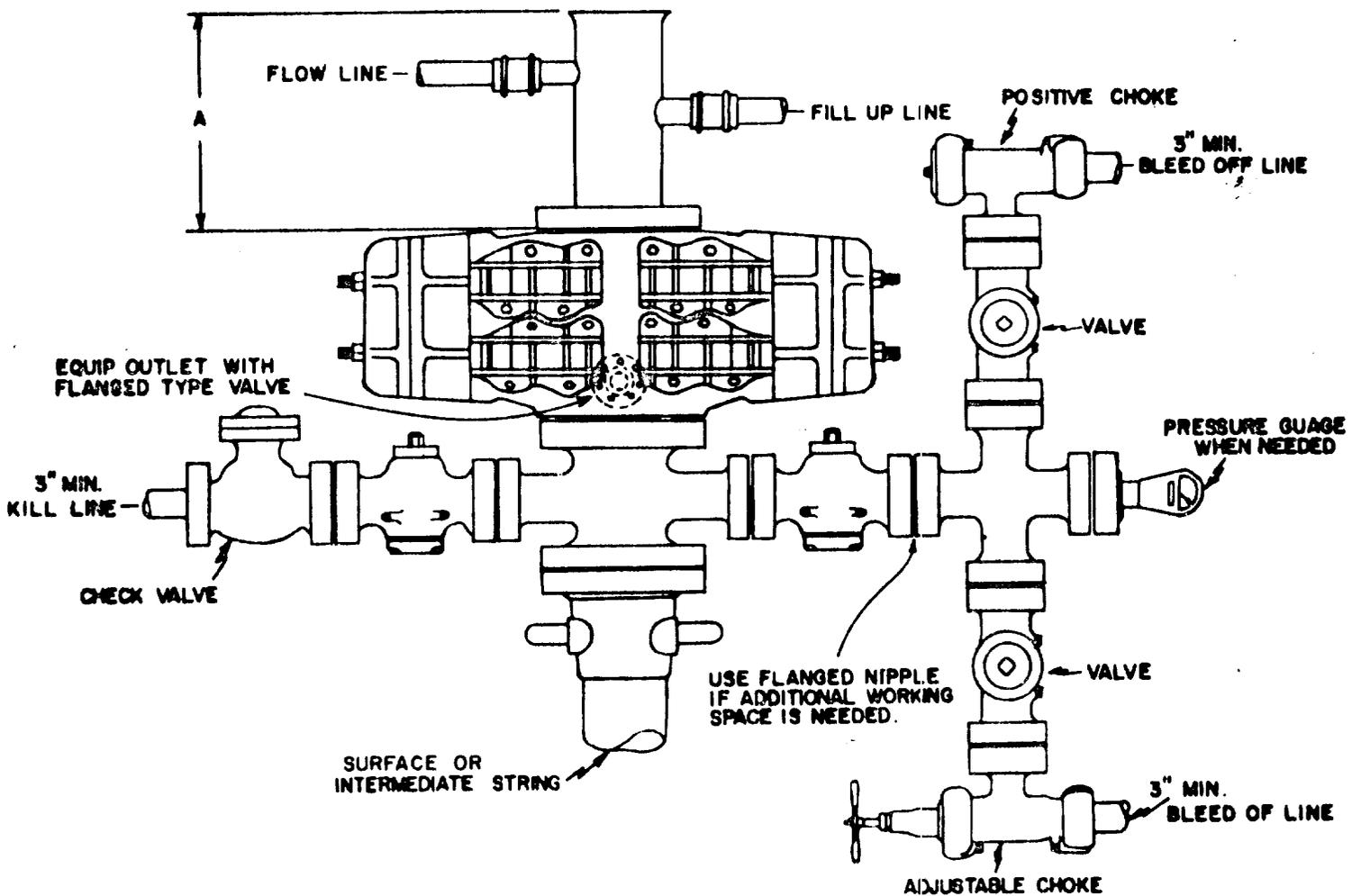

Tommie Bliss
District Superintendent

DRD:RE

Attach.

Minimum equipment requirements are:

1. Blowout preventers must be capable of being operated both mechanically and hydraulically. Controls must be located so that the blowout preventer can be operated outside the drilling rig substructure. All steel tubing and connections must be used between the hydraulic controls and the blowout preventer.
2. Pressure rating of the blowout preventer and associated connections must be proportional to depth and pressure expectations. Use Figure 1 as a guide in unknown areas.
3. Distance "A" must be sufficient to accommodate a Hydril preventer if required.
4. Chokes, valves, manifold piping and kill line must be flanged and designed equal to or above the pressure rating of the blowout preventer.
5. Kelly cock must be used at all times and should be checked daily.



NOTE: BLOWOUT PREVENTER MUST HAVE DOUBLE RAMS; ONE BLIND & ONE PIPE RAM OR THE EQUIPMENT MUST CONSIST OF TWO BLOWOUT PREVENTERS, ONE EQUIPPED WITH BLIND RAMS & THE OTHER WITH PIPE RAMS. ALWAYS PLACE THE BLIND RAMS IN THE TOP PREVENTER.

NAVAJO TRIBE "BU" WELL NO. 1
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC. 34 T26N-R18W
 SAN JUAN COUNTY, NEW MEXICO

APPROVED
[Handwritten Signature]

TEXACO INC DENVER, COLORADO	
BLOWOUT PREVENTER ASSEMBLY STANDARD NO. 2	
GRADE OF IRON	GRADE OF STEEL
CITY MADE	FILE NO.
REVISION	DATE



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
ROCKY MOUNTAINS-U. S.
DENVER DIVISION

January 3, 1975

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

**SURFACE USE DEVELOPMENT PLAN
NAVAJO TRIBE "BU" WELL NO. 1
NE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC. 34 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 "BU" 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. New access road approximately 2000' x 30' wide will be required. The road will run southwest from an existing road, and surface will be compacted dirt. See road plats attached.
3. The proposed location is a development well with the closest wells approximately 2000' to the northwest and northeast.
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 4000' to the northwest to an existing battery. See attached plat.
6. Water for drilling operations will be obtained from the bradenhead annulus of Texaco's Navajo Tribe "AL" No. 2, located approximately one mile to the northwest.

January 3, 1975

7. All drilling mud will be contained by the reserve pit and steel tanks. Earthen 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 the well is completed.
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 slightly sloping, sandy barren ground with scattered bunches of grass and small brush. No cuts, culverts or cattleguards will be required. Natural drainage is 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

I am writing to you regarding the matter of the [subject] which you mentioned in your letter of [date]. I have reviewed the [subject] and find that it is in accordance with the [policy]. I am sure that you will be satisfied with the [result].

Very truly yours,

[Signature]

I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result].

I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result].

I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result]. I am sure that you will be satisfied with the [result].

Very truly yours,

[Signature]

[Text]

[Text]

[Text]

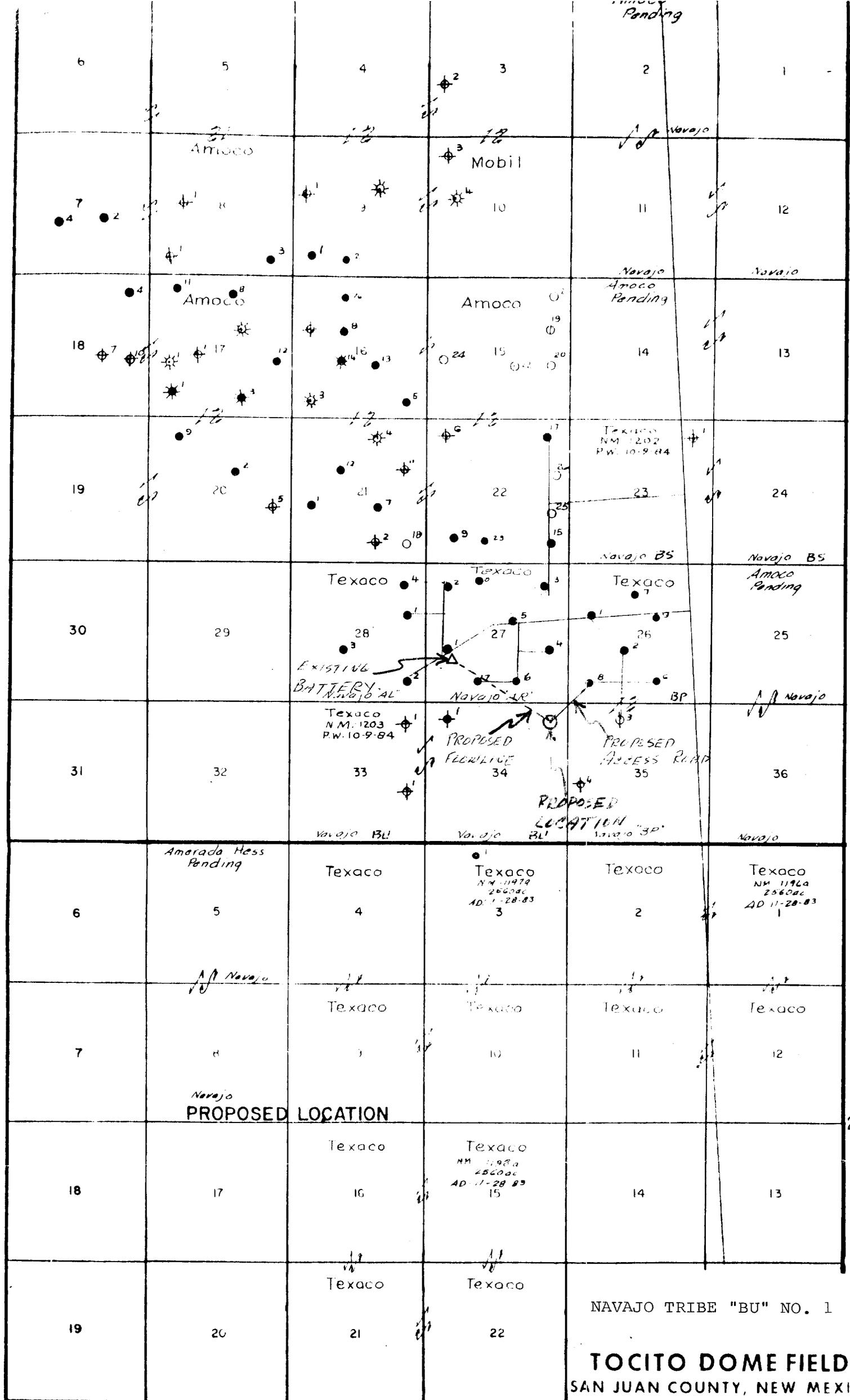
NAVAJO INDIAN RESERVE

PROPOSED ACCESS ROAD
PROPOSED LOCATION



NAVAJO INDIAN RESERVE

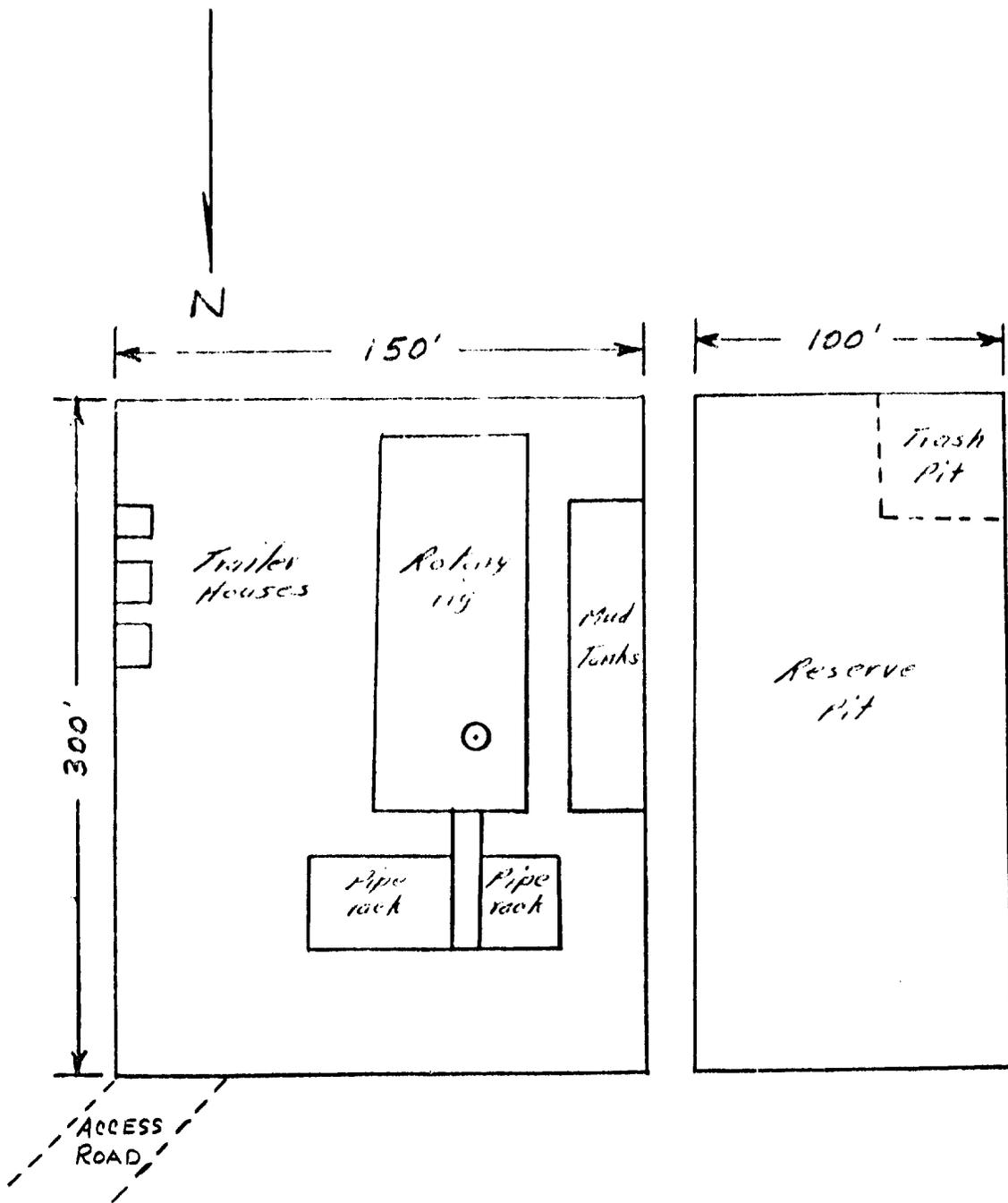
ROAD AND LOCATION PLAT
NAVAJO TRIBE "BU" NO. 1
SAN JUAN COUNTY, NEW MEX.



NAVAJO TRIBE "BU" NO. 1
TOCITO DOME FIELD
 SAN JUAN COUNTY, NEW MEXICO
 Scale: 1" = 4000' Oct - 1974

All Lands - Navajo Tribe

T.023



- A. Drilling pad will be compacted soil.
- B. Surface is slightly sloping, sandy barren ground with scattered bunches of grass and small brush.

LOCATION AND RIG LAYOUT PLAT
 NAVAJO TRIBE "BU" WELL NO. 1
 SAN JUAN COUNTY, NEW MEXICO