

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

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

## 3. ADDRESS OF OPERATOR

501 Airport Drive

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

1840' FSL &amp; 2090' F&amp;L, Section 16, T-26-N, R-18-W

At proposed prod. zone

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

24 miles south of Shiprock, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

550'

## 16. NO. OF ACRES IN LEASE

2544.50

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.

1200'

## 19. PROPOSED DEPTH

6500'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5734' ungraded GL

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

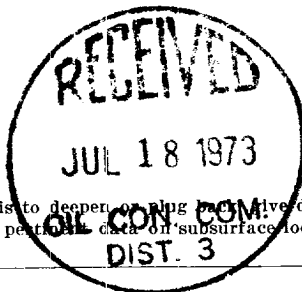
July 1973

## 23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17-1/4"      | 13-3/8"        | 61#             | 100'          | 100 sz             |
| 12-1/4"      | 9-5/8"         | 36#             | 1500'         | 500 sz             |
| 8-3/4"       | 7"             | 23#             | 6500'         | 250 sz             |

Well will be drilled through the Morrison water zones and 9-1/8' intermediate casing set. Well will then be drilled through the Pennsylvanian "D" and completion designed from open hole logs.

A copy of the Location Plat, Development Plan and location sketch are attached.



JUL 17 1973

U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C.

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.

Original Signed by

J. ARNOLD SNELL

TITLE

Area Engineer

DATE

July 16, 1973

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*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.

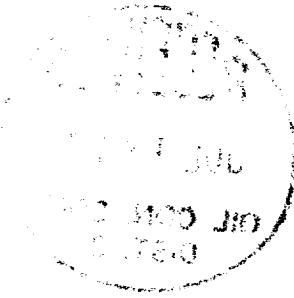
**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**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 ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

|   |                      |                             |                                   |                           |                       |
|---|----------------------|-----------------------------|-----------------------------------|---------------------------|-----------------------|
| Operator<br><b>Amoco Production Company</b> |                      |                             | Lease<br><b>Navajo Tribal "U"</b> |                           | Well No.<br><b>14</b> |
| Unit Letter<br><b>K</b>                     | Section<br><b>16</b> | Township<br><b>26 North</b> | Range<br><b>18 West</b>           | County<br><b>San Juan</b> |                       |

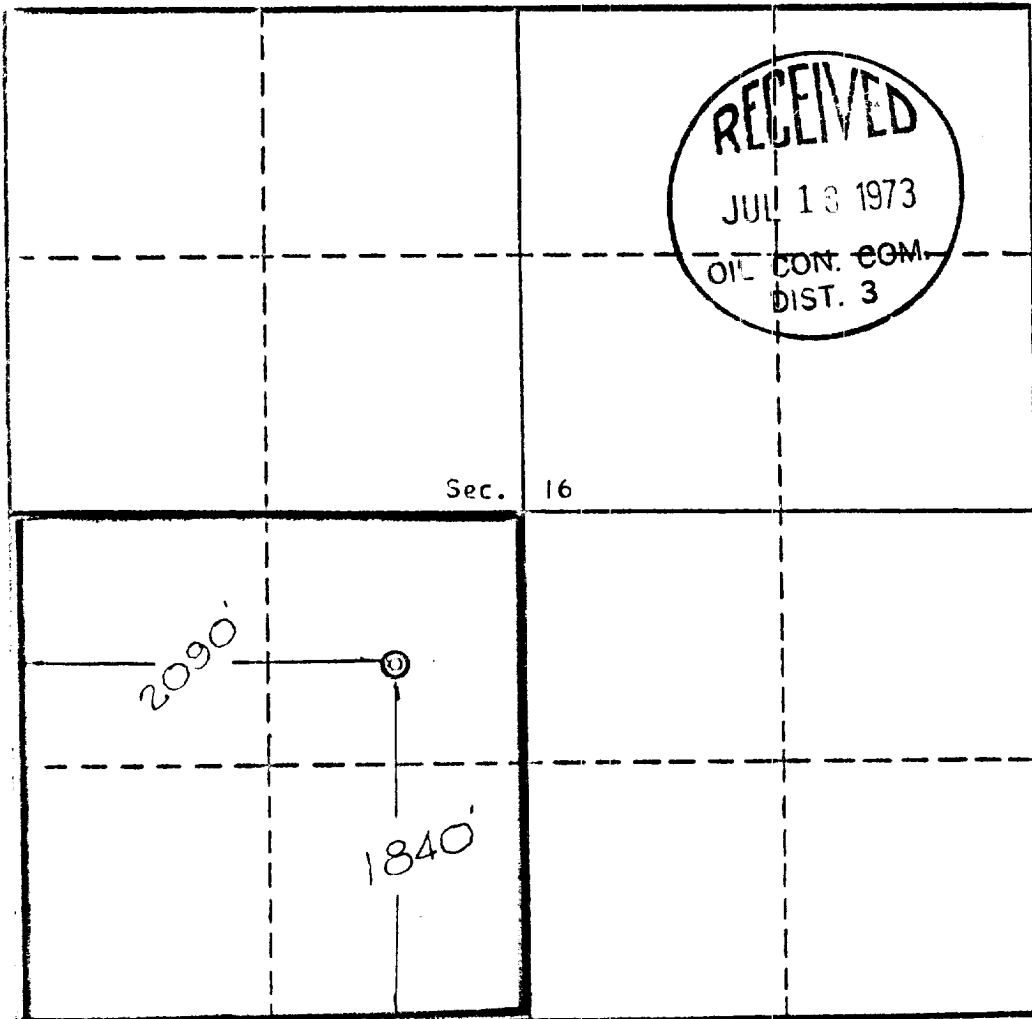
Actual Footage Location of Well:  
**1840** feet from the **South** line and **2090** feet from the **West** line

|   |   |                                      |                                 |       |
|---|---|--------------------------------------|---------------------------------|-------|
| Ground Level Elev.<br><b>5734' est.</b> | Producing Formation<br><b>Pennsylvanian "D"</b> | Pool<br><b>Tocito Dome Penn. "D"</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 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.



Scale, 1 inch = 1,000 feet

**CERTIFICATION**

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

Name J. Arnold Snell  
Position Area Engineer  
Company AMOCO PRODUCTION COMPANY  
Date July 16, 1973

I hereby certify that the well location shown on this plat was plotted from 100 feet of actual survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

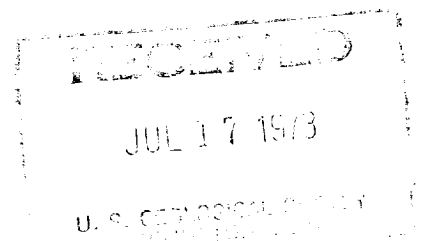
Date Surveyed July 12, 1973  
Registered Professional Engineer and/or Land Surveyor

E. V. Echohawk  
Certificate No. 3602  
E. V. Echohawk LS

DEVELOPMENT PLAN FOR SURFACE USE  
NAVAJO TRIBAL "U" NO. 14

Amoco Production Company proposes to drill the subject well with rotary tools on a graded location as shown on the attachment. The location is in accordance with NMOCC Order R-2758. Established roads exist in the area and only 1,300 feet of new road will be constructed. Archeological clearance to drill the well has been obtained from the proper authorities. Clearance for this work will also be obtained from the Navajo Tribe.

No airstrips or field camps exist nearby. There are no trees in the area so no timber damage will result. Vegetation in the area is extremely sparse. As the well is located in the middle of an active oil field we have previously completed a water source well. All water for drilling operations will come from this well. Upon completion of subject well the location will be thoroughly cleaned and the reserve pit backfilled.



R 13 W

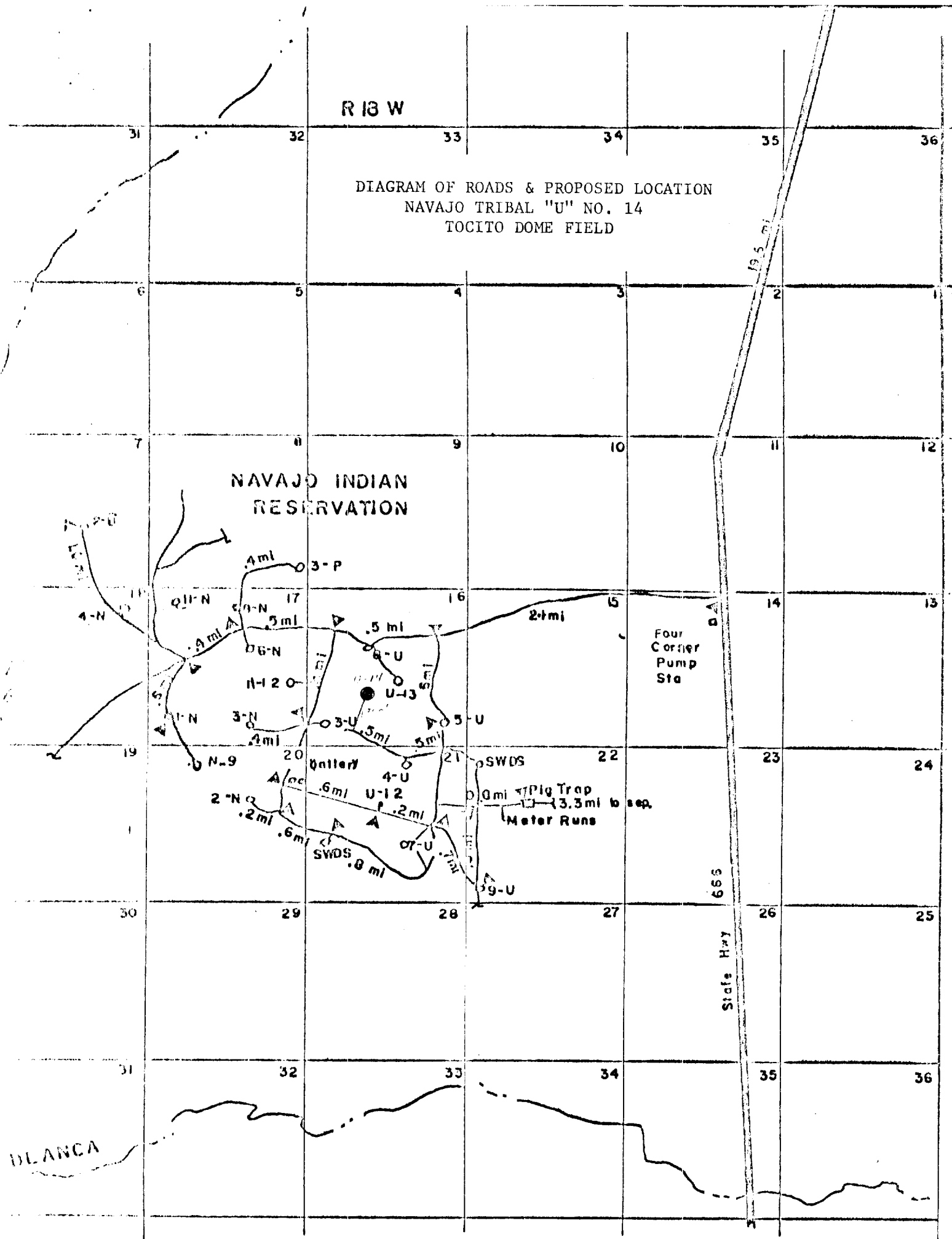
DIAGRAM OF ROADS & PROPOSED LOCATION  
NAVAJO TRIBAL "U" NO. 14  
TOCITO DOME FIELD

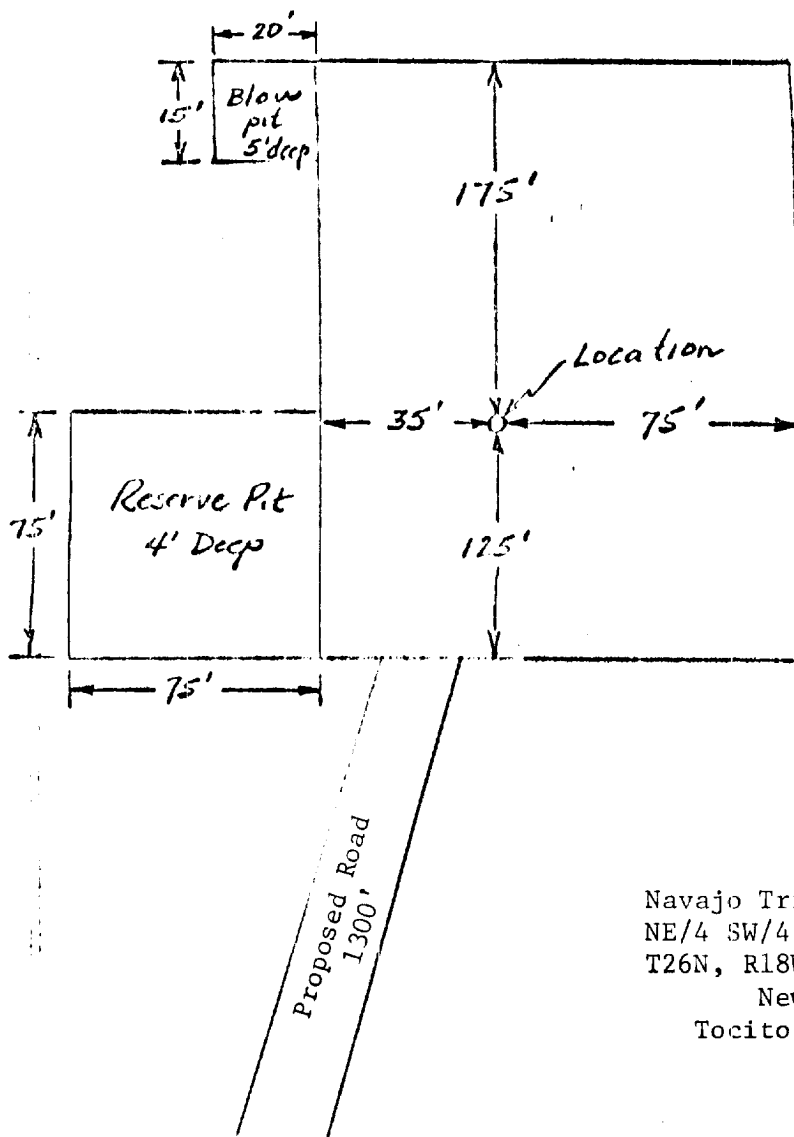
NAVAJO INDIAN  
RESERVATION

Four  
Corner  
Pump  
Sta

State Hwy 66S

BLANCA





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Navajo Tribal "U" No. 14  
NE/4 SW/4 Section 16,  
T26N, R18W, San Juan County  
New Mexico  
Tocito Dome Penn. "D" Field

|  |                                   |
|--|-----------------------------------|
| Amoco Production Company               | SCALE: <i>N=1/4"</i><br><i>SW</i> |
| <i>Drilling Location Specification</i> | DRG.<br>NO.                       |