

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

30-045-21346

**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, Farmington, New Mexico 87401**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface **1850' FSL & 1900' FWL, Section 7, T-26-N, R-18-W**  
 At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**20 miles south of Shiprock, New Mexico**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)  
**990'**

16. NO. OF ACRES IN LEASE  
**2544**

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.  
**1300'**

19. PROPOSED DEPTH  
**6500'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**Will report later**

22. APPROX. DATE WORK WILL START\*  
**September 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 sx
12-1/4"	9-5/8"	36#	1500'	500 sx
8-3/4"	7"	20# & 23#	6500'	250 sx

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-603-5033**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo Tribe**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Navajo Tribal "P"**

9. WELL NO.  
**4**

10. FIELD AND POOL, OR WILDCAT  
**Tecite Dome Penn. "D" e/v**

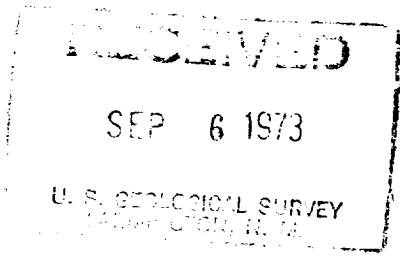
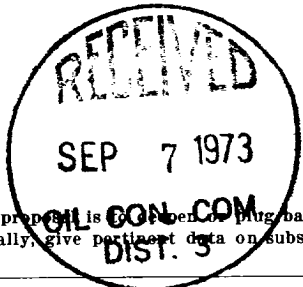
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**NE/4 SW/4 Section 7, T-26-N, R-18-W**

12. COUNTY OR PARISH  
**San Juan**

13. STATE  
**New Mexico**

Well will be drilled through the Morrison water zones and 9-5/8" intermediate casing set. Well will then be drilled through the Pennsylvanian "D" and completion designed from open hole logs. A copy of all logs will be furnished upon completion.

A copy of the Location Plat is attached.



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 **September 6, 1973**

(This space for Federal or State office use)

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

APPROVED BY TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

## 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.

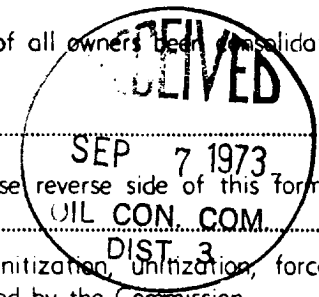
**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator <b>Amoco Production Company</b>			Lease <b>Navajo Tribal "P"</b>		Well No. <b>4</b>
Plot Letter <b>K</b>	Section <b>7</b>	Township <b>26 North</b>	Range <b>18 West</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1850</b> feet from the <b>South</b> line and <b>1900</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5799 est.</b>	Producing Formation <b>Pennsylvanian "D"</b>		Pool <b>Tocito Dome <i>Pound EXT</i></b>	Dedicated Acreage: <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.



**CERTIFICATION**

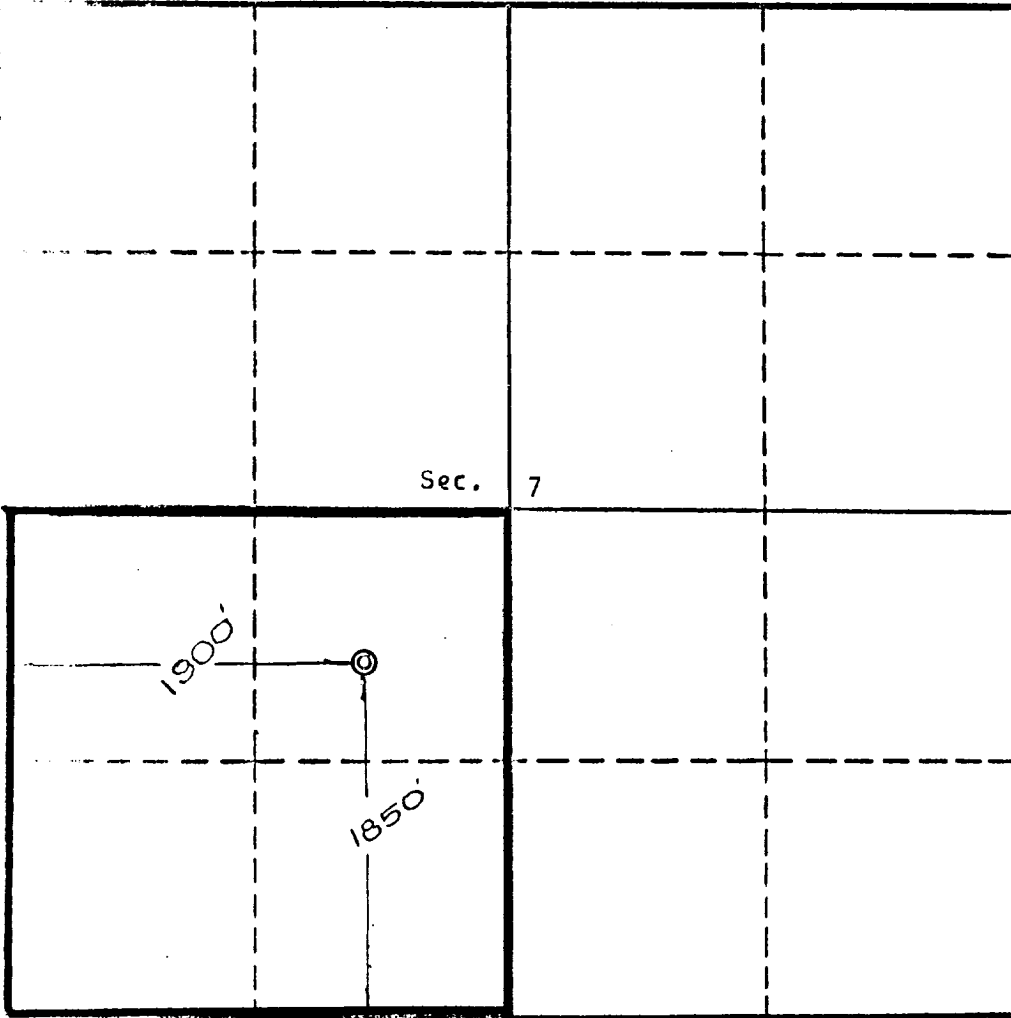
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*J. Arnold Snell*  
 Name  
 J. Arnold Snell  
 Position  
 Area Engineer  
 Company  
 AMOCO PRODUCTION COMPANY  
 Date  
 September 6, 1973

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.

*E. V. Echohawk*  
 Date Surveyed  
 September 5, 1973  
 Registered Professional Engineer  
 and/or Land Surveyor

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

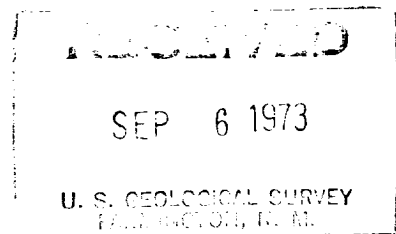


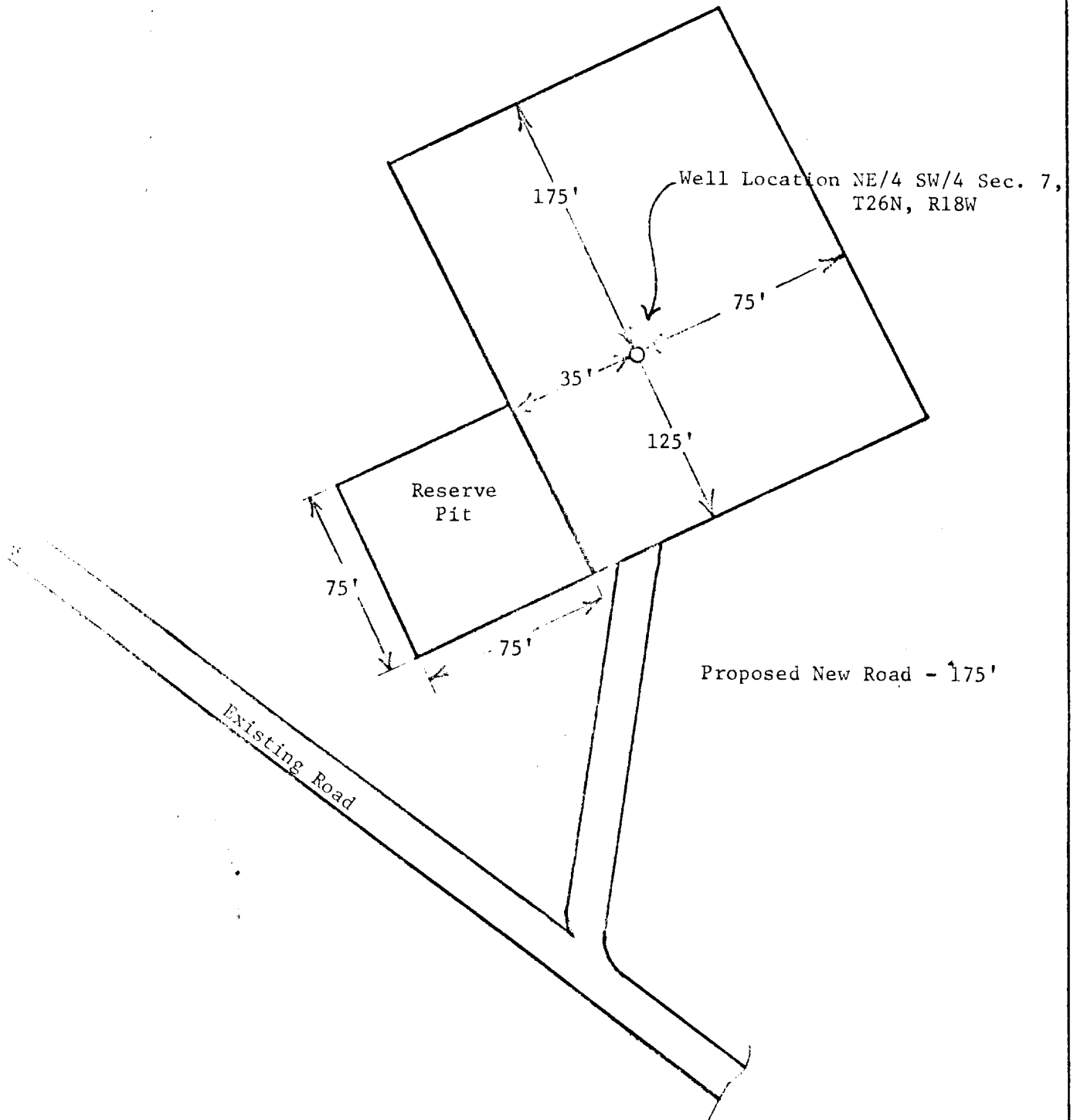
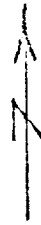
Scale, 1 inch = 1,000 feet

DEVELOPMENT PLAN FOR SURFACE USE  
NAVAJO TRIBAL "P" NO. 4

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 175 feet of new road will be constructed. Archeological clearance to drill this 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.





Amoco Production Company	SCALE: None
DRILLING LOCATION DESIGN	
NAVAJO TRIBAL "P" NO. 4 - TOCITO DOME FIELD	DRG. NO. 73-JWC-96

R 13 W

DIAGRAM OF ROADS & PROPOSED LOCATION  
NAVAJO TRIBAL "P" NO. 4  
TOCITO DOME FIELD  
SAN JUAN COUNTY, NEW MEXICO

NAVAJO INDIAN  
RESERVATION

T  
26  
N

Four  
Corner  
Pump  
Sta

0.0 mi Pig Trap  
Meter Runs  
3.3 mi to sep.

655  
State Hwy

LANCA

