

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, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 1830' FNL x 1560' FWL, Section 24, T25N, R5W
 At proposed prod. zone
 Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA.
 SE/4, NW/4, Section 24, T25N, R5W

5. LEASE DESIGNATION AND SERIAL NO.
 Jicarilla Contract 148

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Jicarilla Contract 148

9. WELL NO.
 21

10. FIELD AND POOL OR WILDCAT
 Otero Chacra Ext.

12. COUNTY OR PARISH
 Rio Arriba

13. STATE
 NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 17-1/2 miles NNW of Counselor, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1560

16. NO. OF ACRES IN LEASE
 2560

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.
 201'

19. PROPOSED DEPTH
 4034'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6840' GL

22. APPROX. DATE WORK WILL START*
 As soon as permitted

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" (New)	24# K-55	300'	372 cu. ft. class B w/2% CaCl2-circ
7-7/8"	4-1/2 (New)	10.5# K-55	4034'	1401 cu. ft. class B 50:50 POZ, 6% gel, 2# med tuf plug/sx and .8% FLA. Tail in w/118 cu. ft. class B Neat-circ.

Amoco proposes to drill the above well to further develop the Otero Chacra reserves. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. A copy of all logs will be filed upon completion. Additional information required by NTL-6 for the application to drill and a multi-point surface use plan are attached.

The gas from this well is not dedicated to a gas sales contract.

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
 SIGNED D. H. SHOEMAKER TITLE District Engineer DATE 8-30-82

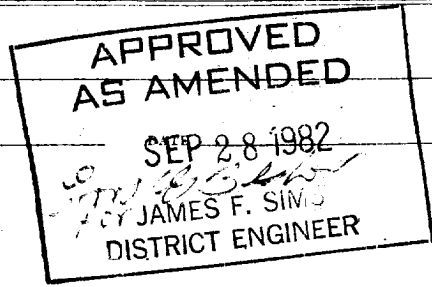
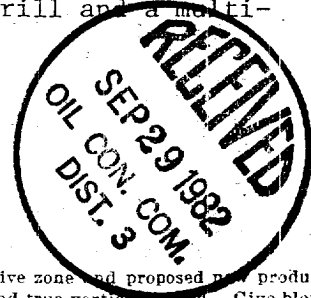
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:

ok

NMOCC



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

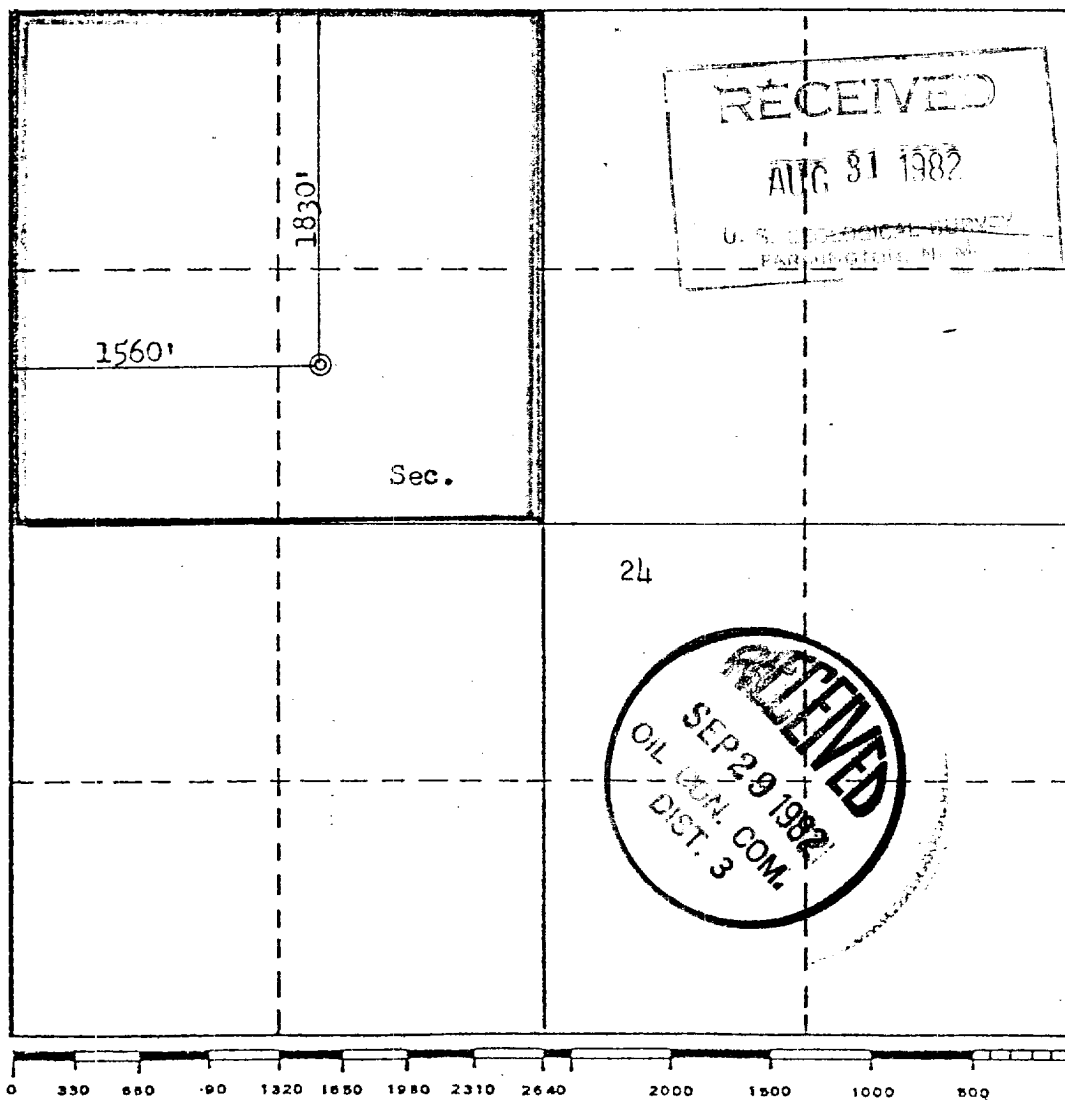
Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA CONTRACT 148		Well No. 21
Unit Letter F	Section 24	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well:					
1830 feet from the North line and		1560 feet from the West line			
Ground Level Elev. 6840	Producing Formation Chacra	Pool Otera Chacra Ext.		Dedicated Acreage: 160 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.

R. A. Downey
Name
R.A. DOWNEY

Position
DISTRICT ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
JUNE 3, 1980

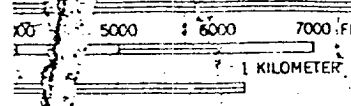
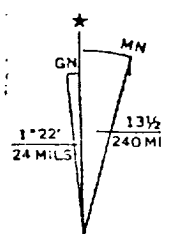
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
May 27, 1980
Registered Professional Engineer
and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. **KERR, JR.**
3950



SCALE 1:24000
 455° IV SE

Vicinity Map for
 AMOCO PRODUCTION CO. #21 JICARILLA CONTRACT 148
 1830' FNL 1560' FWL Sec. 24-T25N-R5W
 RIO ARriba COUNTY, NEW MEXICO



UTM GRID AND 1963 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

DATE OF SURVEY: 1963

THIS MAP CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS