

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 148
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 501 Airport Dr., Farmington, NM 87401		8. FARM OR LEASE NAME Jicarilla Contract 148
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 840' FNL x 820' FEL At proposed prod. zone		9. WELL NO. 27
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15-1/2 miles Northeast of Counselor, NM		10. FIELD AND POOL, OR WILDCAT Otero Chacra Ext.
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 820'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/4, NE/4, Section 13, T25N, R5W
16. NO. OF ACRES ASSIGNED TO THIS WELL 2560		12. COUNTY OR PARISH Rio Arriba
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 633'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7348' GL		22. APPROX. DATE WORK WILL START* As soon as permitted

23. 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)	24.0# K-55	300'	372 cu ft Class B x 2% CaCl2-Circ.
7-7/8"	4-1/2" (New)	9.4# K-55	4753'	1486 cu ft Class B 50:50 POZ w/6% ge. 2# med tuf plug/sx & .8% FLA. Tail in w/118 cu ft Class B neat-Circ.

Amoco proposed 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 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 Dist. Engineer DATE 10-22-82

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

FEB 7 1983

JAMES F. SIMS
DISTRICT ENGINEER

NM000

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107
Revised 10-1-78

SANTA FE, NEW MEXICO 87501

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

30-039-23157

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

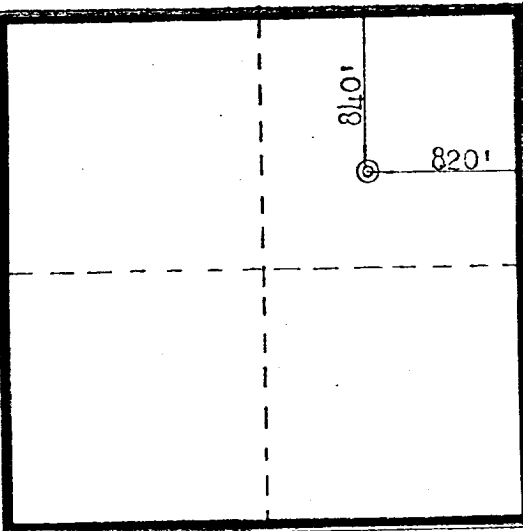
Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA CONTRACT 148		Well No. 27
Unit Letter A	Section 13	Township 25N	Range 5W	County Rio Arriba
Actual Footage Location of Well: 840 feet from the North line and 820 feet from the East line				
Ground Level Elev. 7348	Producing Formation Chacra	Pool Otero Chacra Ext.		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

<div>RECEIVED OCT 26 1982 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.</div>	
<div>RECEIVED</div>	

Scale: 1"=1000'

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
SEPTEMBER 11, 1980

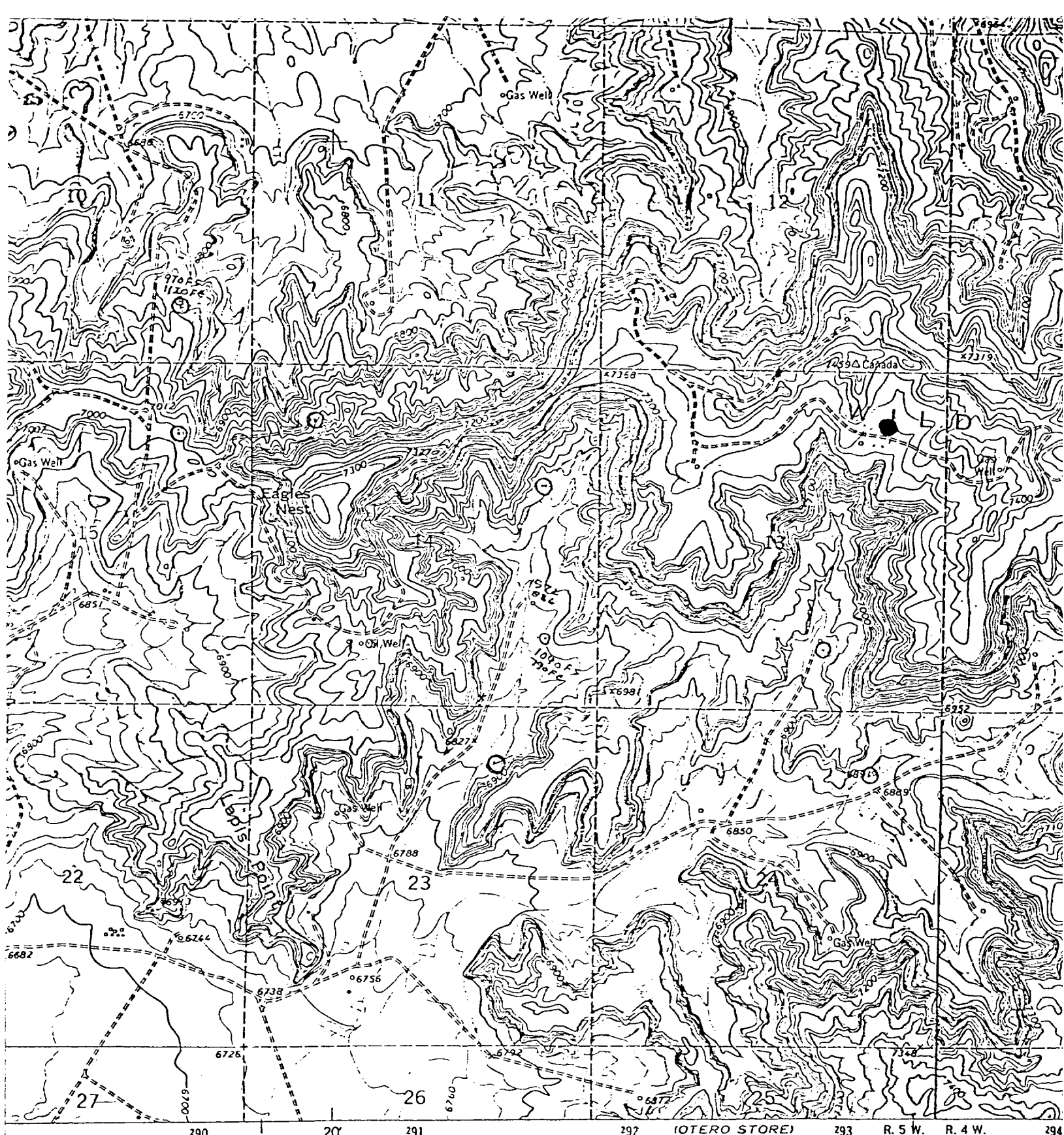
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
July 29, 1980

Registered Professional Engineer
and Land Surveyor

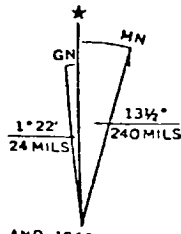
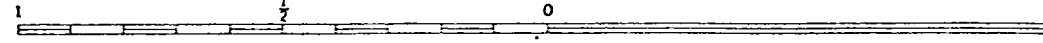
Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certification No. **3950**



(OTERO STORE)
4556 IV SE

SCALE 1:24000



Vicinity Map for
 AMOCO PRODUCTION CO. #27 JICARILLA CONTRACT 148
 840°FNL 820°FEL Sec. 13-T25N-R5W
 RIO ARriba COUNTY, NEW MEXICO

UTM GRID AND 1963 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET