

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 Dr., Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1120' FNL x 1760' FWL Section 13, T25N, R5W
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
14 miles NNE of Counselor, NM

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 1120

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. 541'

19. PROPOSED DEPTH
4624'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7364' GL

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

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.
23

10. FIELD AND POOL, OR WILDCAT
Otero Chacra Ext.

11. SEC., T., R. M., OR BLK.
AND SURVEY OR AREA
NE/4, NW/4, Section 13,
T25N, R5W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

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FARMINGTON, N. M.

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)	10.6# K-55	4624'	1417 cu ft class B 50:50 POZ, 6% gel 2# med tuf plug/sx and .8% FLA. Tail in w/89 cu ft class B neat - cir

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 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 AMENDEDFEB 7 1983
JAMES F. SIMS
DISTRICT ENGINEER

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

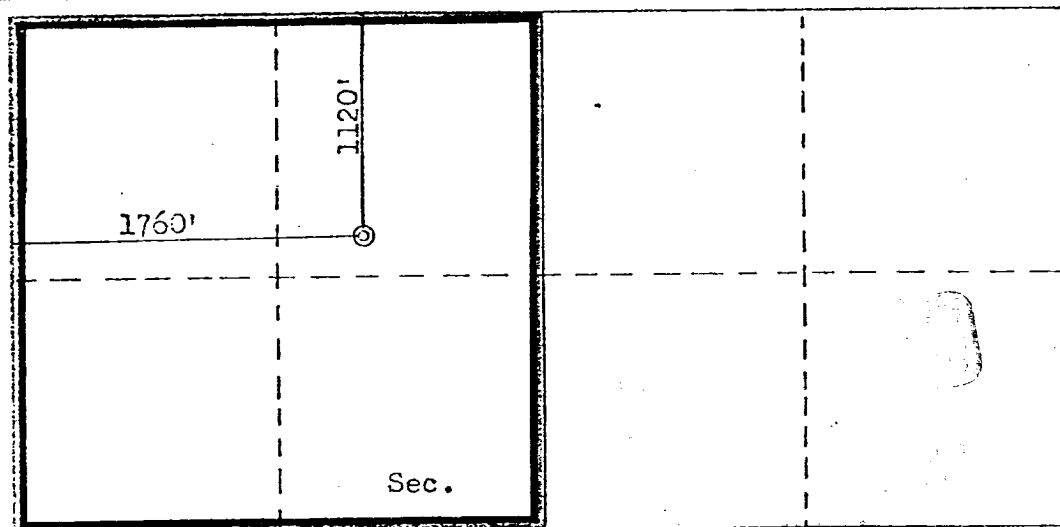
Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA CONTRACT 148		Well No. 23
Unit Letter C	Section 13	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1120 feet from the North line and 1760 feet from the West line					
Ground Level Elev. 7364	Producing Formation Chacra		Pool Otera 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.



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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

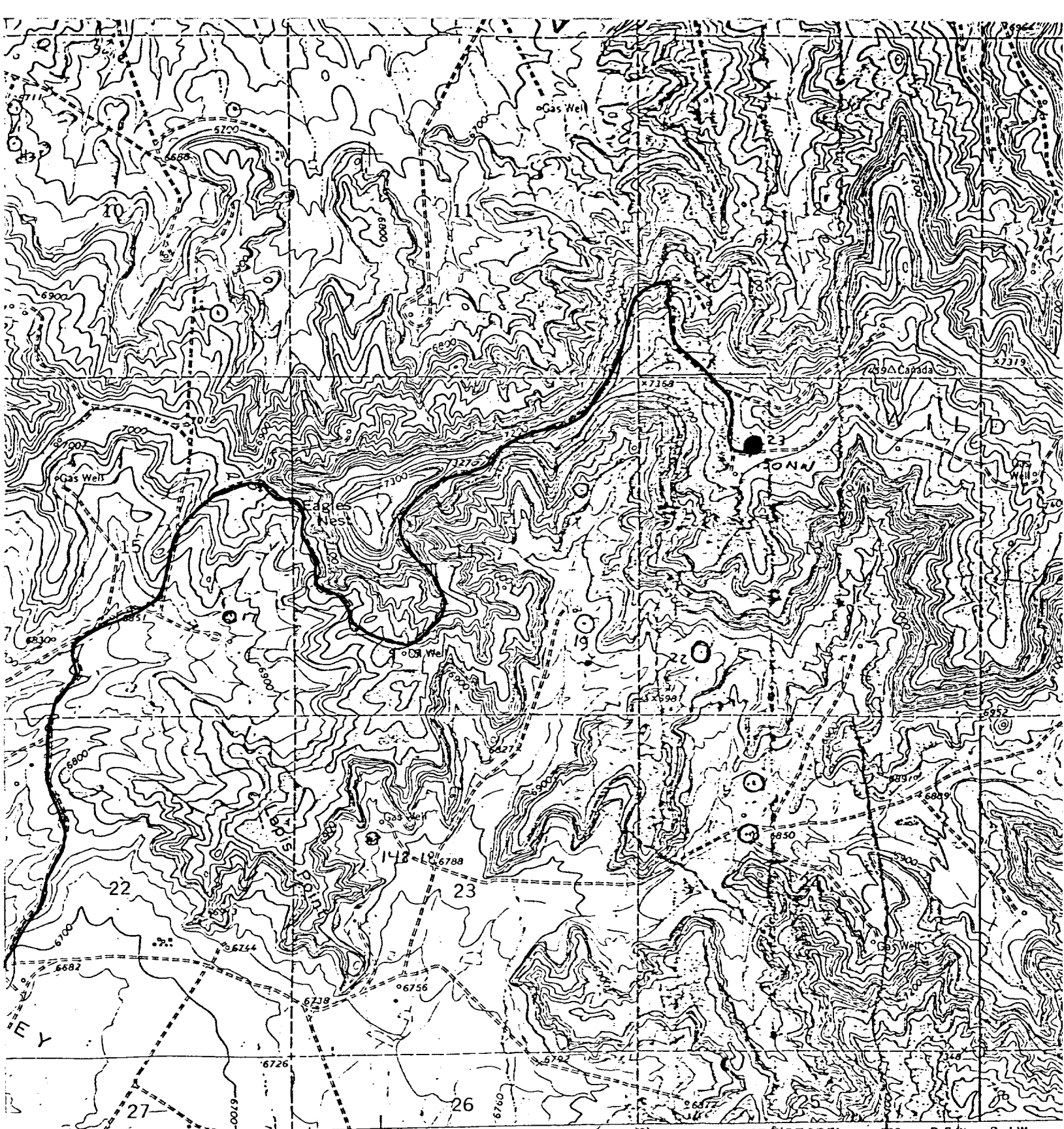
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

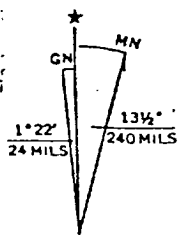
May 27, 1980

Registered Professional Engineer
and/or Land Surveyor

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



Vicinity Map for
 AMOCO PRODUCTION COMPANY #23 JICARILLA CONTRACT 148
 1120'FNL 1760'FWL Sec. 13-T25N-R5W
 RIO ARriba COUNTY, NEW MEXICO



1 5000 7000 F
 1 KILOMETER

CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

UTM GRID AND 1963 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET