

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

P. O. Box 68, Hobbs, NM 88240

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

At surface

1980' FSL & 1650' FEL, Sec. 15

At proposed prod. zone (Unit J, NW/4 SE/4)

U.S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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

9 miles north/northeast of Jal, NM

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6400'

20. ROTARY OR CABLE TOOLS

Rotary

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

3236.7' GL

22. APPROX. DATE WORK WILL START*

2-5-80

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11" or 12 1/4"	8 5/8"	36#	1100'	Circulate to surface
7 7/8"	5 1/2"	17#, 20#	6400'	Cement to 500' above Glorietta (approx. 4310' from surface)

Propose to drill and equip well in the Drinkard formation. After reaching TD, logs will be run and evaluated; will perforate and stimulate as necessary in attempting commercial production.

Mud program: 0-1100' Native mud and fresh water
1100'-TD Native mud and brine with enough commercial mud to maintain good hole conditions

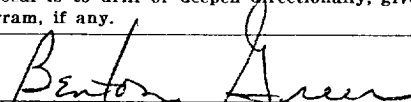
BOP program attached
Archaeological survey attached

0+6-USGS, H 1-Hou 1-Susp 1-LBG 1-W. Stafford, Hou

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.

SIGNED



TITLE

Asst. Admin. Analyst

DATE

1-12-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

JAN 22 1981

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

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

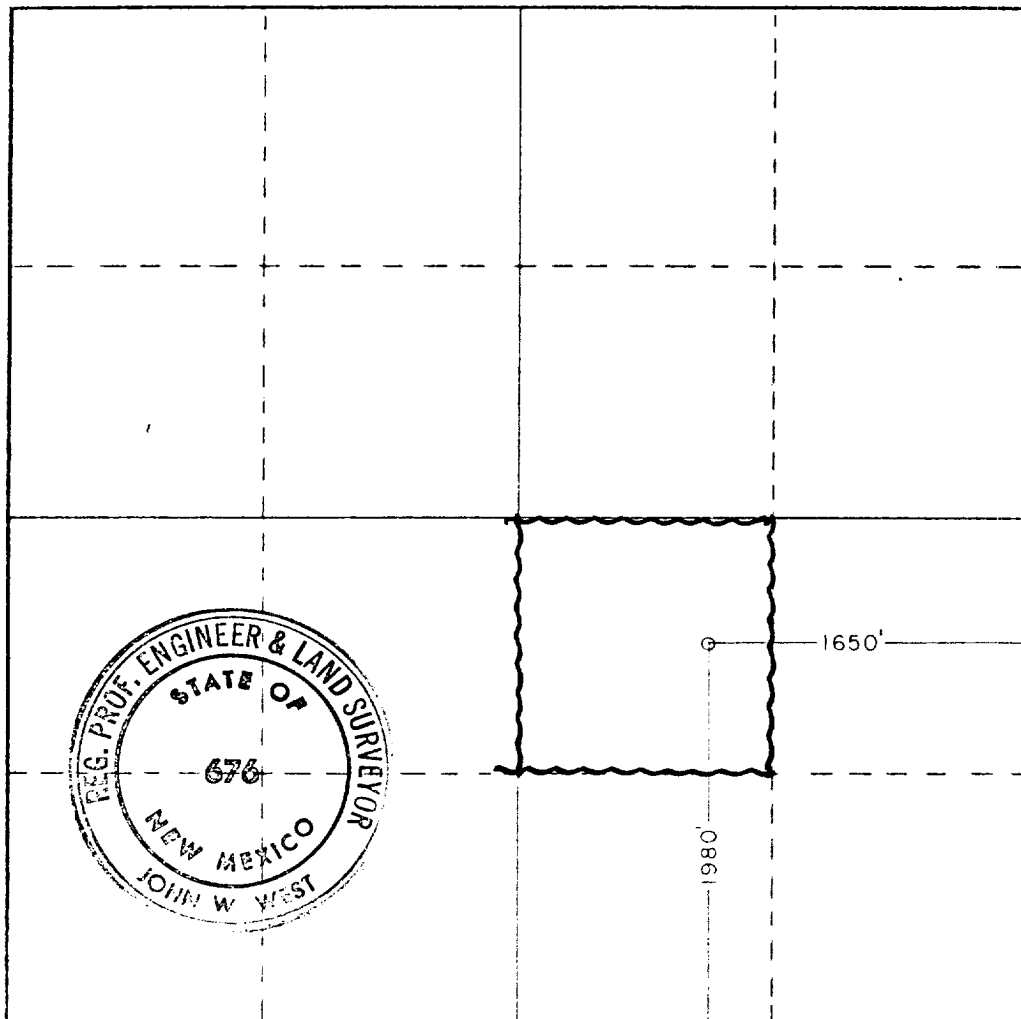
Operator Amoco Production co.			Lease South Maddix Unit Federal		Well No. 40
Unit Letter J	Section 15	Township 24S	Range 37E	County Lea	
Actual Footage Location of Well: 1980 feet from the South line and 1650 feet from the East line					
Ground Level Elev. 3236.7'	Producing Formation Fowler-Drinkard		Pool Drinkard		Dedicated Acreage: 40 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.

Name *Benton Greer*
 Position **Assistant Admin. Analyst**
 Company **Amoco Production Company**
 Date **1-12-81**

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 **December 4, 1980**

Registered Professional Engineer and/or Land Surveyor

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6463
Ronald J. Eidson 3239

Amoco Production Company
Attachment to "Application for Permit to Drill", Form 9-331 C

South Mattix Unit Federal No. 40
1980' FSL & 1650' FEL, Sec. 15, T-24-S, R-37-E
Lea County, New Mexico

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Quaternary

4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6. Estimated tops of important geologic markers.

Yates	2444'	Tubb	5820'
Queen	3149'	Drinkard	6005'
Glorietta	4810'		

7. Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

Drinkard 6005'

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>New or Used</u>
1100'	8 5/8"	36#	K-55	New
6400'	5 1/2"	17#, 20#	K-55, N-80	New

9. Proposed cementing program.

8 5/8"	Circulate to surface
5 1/2"	Cement to 500' above Glorietta (approx. 4310' from surface)

10. Blowout Preventer Program is attached.

11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling, and the quantities and types of mud and weighting material to be maintained.

0-1100' Native mud and fresh water

1100'-TD Native mud and brine with enough commercial mud to maintain good hole conditions.

12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

Compensated neutron formation density
Dual laterolog - micro SFL

13. Any anticipated abnormal pressure or temperatures expected to be encountered or potential hazards, such as hydrogen sulfide gas, along with plans for mitigating such hazards.

None anticipated

14. Anticipated starting date and duration of operation.

1-5-81

2-5-81

15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.

Request exemptions from the painting stipulations of Sec. 102 (a) (8) of the "Federal Land Policy and Management Act of 1976" to paint any tanks, separators, and treaters required for the production of this well, Amoco's standard gray color. If a pumping unit is required for the continued production of this well, it will be painted black with orange safety color coding which conforms with your current painting guidelines.