

**COPY TO ORIGINAL**

MIT IN TRIPLIC.  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

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

*30-025-27068*

**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  
 At proposed prod. zone      480' FSL & 1980' FWL, Sec. 28  
 ( Unit N, SE/4, SW/4)

**14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\***  
 3.5 miles south of Maljamar, 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**  
 320

**18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.**

**19. PROPOSED DEPTH**  
 13000'

**20. ROTARY OR CABLE TOOLS**  
 Rotary

**21. ELEVATIONS (Show whether DF, RT, GR, etc.)**  
 3941.4 GL

**22. APPROX. DATE WORK WILL START\***  
 8-15-80

**5. LEASE DESIGNATION AND SERIAL NO.**  
 LC-057210

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

**7. UNIT AGREEMENT NAME**

**8. FARM OR LEASE NAME**  
 Federal BI

**9. WELL NO.**  
 1

**10. FIELD AND POOL, OR WILDCAT**  
 Wildcat Morrow

**11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA**  
 28-17-32

**12. COUNTY OR PARISH**      **13. STATE**  
 Lea      NM

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	700'	Circ. to surf.
12-1/4"	9-5/8"	40#	4500'	Circ. to surf.
8-3/4"	5-1/2"	17#, 20#, 23#	13000'	Tieback to 9-5/8"

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

**MUD PROGRAM:**  
 0'- 300' Native mud and fresh water.  
 700'-4500' Native mud and brine water  
 4500'-TD Commercial mud and brine with minimum properties for safe hole conditions. Raise viscosity and reduce water loss prior to Morrow Penetration.

ARCHAEOLOGICAL SURVEY ATTACHED  
 BOP Program Attached  
 Gas is not dedicated

**DRILLING OPERATIONS AUTHORIZED ARE  
 SUBJECT TO COMPLIANCE WITH ATTACHED  
 "GENERAL REQUIREMENTS"**

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AUG 1 1980

**U. S. GEOLOGICAL SURVEY  
 HOBBS, NEW MEXICO**

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 a new well, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

**24. SIGNED** Bob Davis      **TITLE** Admin. Analyst      **DATE** 7-28-80

(This space for Federal or State office use)

**PERMIT NO.** \_\_\_\_\_      **APPROVAL DATE** \_\_\_\_\_  
 (Orig. Sig.) **GEORGE H. STEWART**      **AGING DISTRICT ENGINEER**      **SEP 12 1980**

**APPROVED BY** \_\_\_\_\_      **TITLE** \_\_\_\_\_      **DATE** \_\_\_\_\_  
**CONDITIONS OF APPROVAL, IF ANY:**

0+5-USGS, H      1-Hou      1-Susp      1-LBG

\*See Instructions On Reverse Side

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SEP 30 1990

OIL CONSERVATION DIV.

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

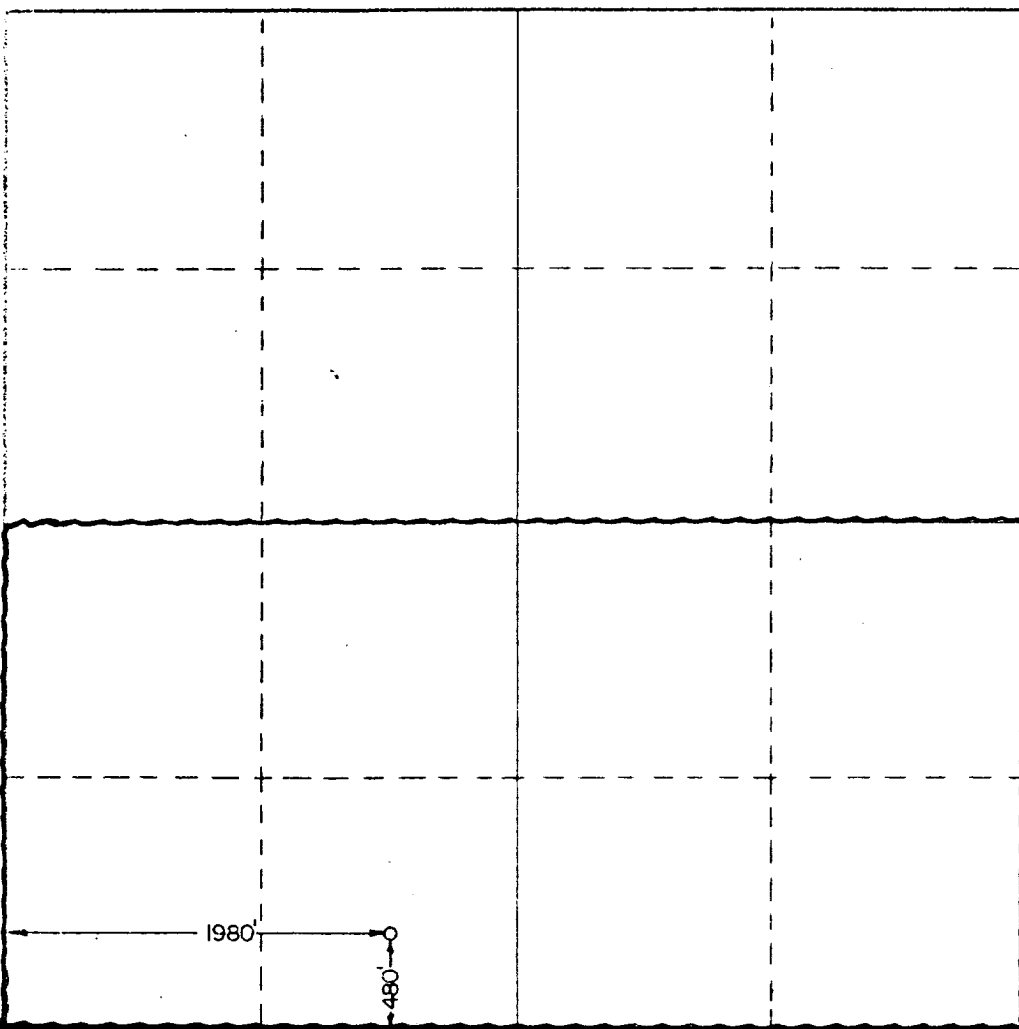
Operator <b>AMOCO Production Co.</b>		Lease <b>Federal B.</b>		Well No. <b>1</b>
Grid Letter <b>N</b>	Section <b>28</b>	Township <b>17 South</b>	Range <b>32 East</b>	County <b>Lea</b>
Well Footage Location of Well: <b>480</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>West</b> line				
Ground Level Elev. <b>2941.4</b>	Producing Formation <b>Morrow</b>	Pool <b>Wildcat Morrow</b>	Dedicated Acreage: <b>320</b> 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.



**CERTIFICATION**

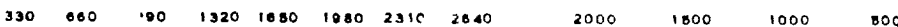
*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Name: **Bob Davis**  
 Position: **Admin. Analyst**  
 Company: **Amoco Production Company**  
 Date: **7-28-80**

*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 7, 1980**  
 Registered Professional Engineer and/or Land Surveyor

*John W. West*  
 Certificate No. **JOHN W. WEST 676**  
**PATRICK A. ROMERO 6883**  
**Ronald J. Eidson 3239**



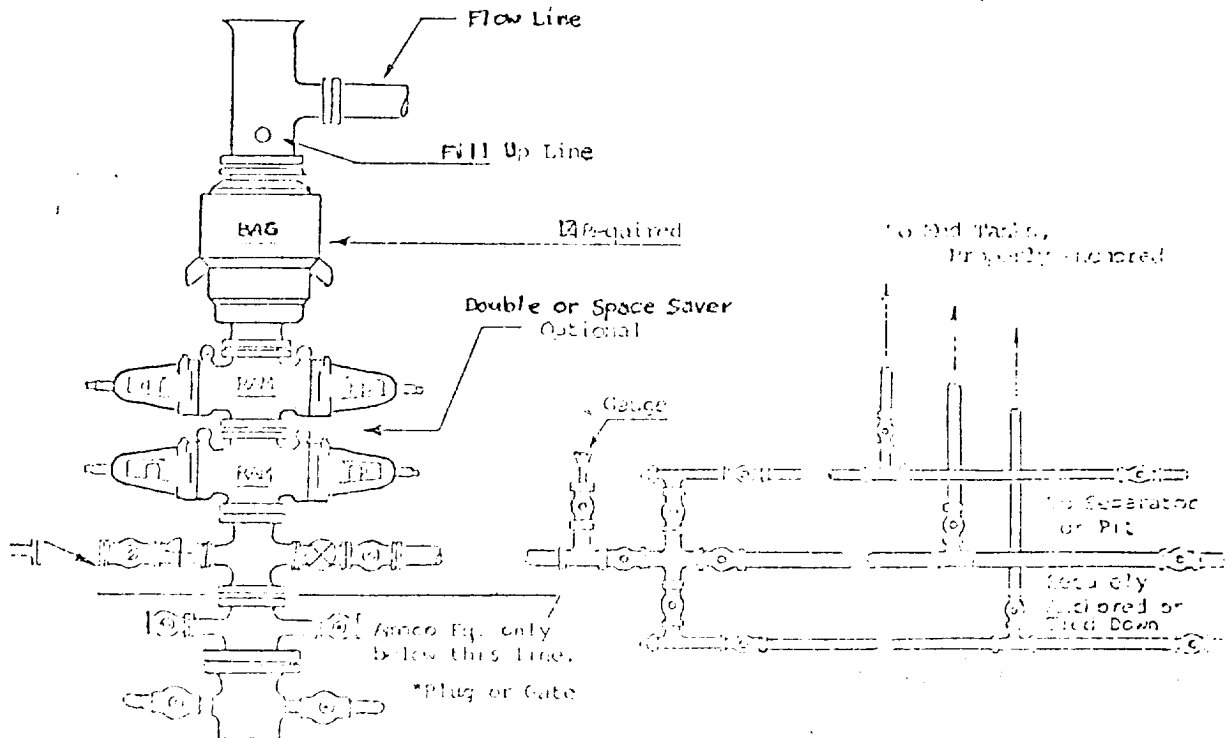
1. BOP'S TO BE FLUID OPERATED.
2. BOP'S AND ALL FITTINGS MUST BE IN GOOD CONDITION AND RATED AT 3000 PSI W.P. MINIMUM.
3. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AT LEAST AS LARGE AS CASING SIZE BEING DRILLED THROUGH.
4. NIPPLE ABOVE BOP'S SHALL BE SAME SIZE AS LAST CASING SET.
5. UPPER KELLY COCK IS REQUIRED AND SHALL BE 3000# W.P. MINIMUM.
6. T. I. W. OR COMPARABLE SAFETY VALVE SHALL BE AVAILABLE ON RIG FLOOR WITH CONNECTION ON SUBS TO FIT ANY TOOL JOINT IN THE STRING. VALVE TO BE FULL BORE 3000# MIN.
7. VALVE NEXT TO SPOOL SHALL BE 4". OTHER EQUIPMENT MAY BE 3" OR 4". ALL CHOKER MANIFOLD EQUIPMENT SHALL BE FLANGED. FLOW LINE FROM MANIFOLD TO BE MINIMUM OF 3" AND STRAIGHT AS POSSIBLE WITH MINIMUM BENDS.
8. FLUID LINES FROM ACCUMULATOR TO BOP'S AND ALL REMOTE CONTROL FLUID LINES SHALL BE STEEL, AND RATED AT OR ABOVE MAXIMUM ACCUMULATOR PRESSURE. LINES SHALL BE ROUTED IN BUNDLES AND ADEQUATELY PROTECTED FROM DAMAGE.
9. USE RAMS IN FOLLOWING POSITIONS:\*

	<u>DRILLING</u>	<u>RUNNING CASING</u>
UPPER RAM	DRILL PIPE	CASING
LOWER RAM	BLIND	BLIND

\*AMOCO AREA SUPT. MAY REVERSE LOCATION OF RAMS.

10. CHOKER MANIFOLD, BEYOND SECOND VALVE FROM CROSS MAY BE OPTIONALLY POSITIONED OUTSIDE OF SUBSTRUCTURE.
11. EXTENSIONS AND HAND WHEELS TO BE INSTALLED AND BRACED AT ALL TIMES.
12. TWO INCH (2") LINES AND VALVES ARE PERMITTED ON THE KILL LINE.

NOTE: ALL UNMARKED VALVES MAY BE PLUG OR GATE VALVE, METAL TO METAL SEAL.



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

Federal BI #1  
480' FSL X 1980' FWL, Sec. 28, T-17-S, R-32-E  
Lea County, NM

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Ogallala

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.

Queen	3100'	Wolfcamp	9200'	Morrow	12350'
San Andres	3870'	Strawn	11700'		
Abo	7750'	Atoka	12000'		

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

Queen	3100'	Strawn	11700'
Abo	3870'	Atoka	12000'
Wolfcamp	9200'	Morrow	12350'

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>
700'	13-3/8"	48#	H-40	New
4500'	9-5/8"	40#	K-55	New
13000'	5-1/2"	17#, 20#, 23#	K-55, S-95	New

9. Proposed cementing program.

13-3/8" - Circulate to surface  
9-5/8" - Circulate to surface  
5-1/2" - Tie back to 9-5/8"

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'- 700' Native mud and fresh water
  - 700'-4500' Native mud and brine water
  - 4500'- TD Commercial mud and brine with minimum properties for safe hole conditions

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

- 700'-TD Compensated Neutron Formation Density
- 700'-TD 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.

8-15-80            9-22-80

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.

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SEP 30 1980  
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