

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WIW

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Plains Petroleum Operating Company

3. ADDRESS OF OPERATOR

415 W. Wall, Suite 1000, Midland, Texas 79701

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

At surface

Unit # 2660' FNL & 1290' FEL

At proposed prod. zone 2520'

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

10.3 miles NE of Jal, New Mexico

15. DISTANCE FROM PROPOSED*

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

1290'

16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED
TO THIS WELL

20

18. DISTANCE FROM PROPOSED LOCATION*

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

900'

19. PROPOSED DEPTH

3650'

20. ROTARY OR CABLE TOOLS

Rotary

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

3268' GR.

22. APPROX. DATE WORK WILL START*

8/1/92

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" | 32# J-55, ST&C | 350' | 144 sx Class "C" CIRCULATE |
| 7-7/8" | 5-1/2" | 14# J-55, ST&C | 3650' | 615 sx Class "C" CIRCULATE |

We propose to drill this well through the Queen-Penrose and to complete as a Queen-Penrose water injection well.

Mud Program: 0 - 350' Spud mud, FW, gel
350' - 3650' Brine adn native mud, mud wt 10 - 10.2 ppg

BOP: A 3000 psi Shaffer double hydraulic operated BOP will be used and tested at installation, drill out, and at each time they are removed or rearranged. BOP used as two mud system.

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

Mark A. Theobald

TITLE

Petroleum Engineer

DATE

6/23/92

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

8-3-92

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

*See Instructions On Reverse Side

ATTACHED

Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to furnish any false, fictitious or fraudulent information.

DISTRICT I
P. O. Box 1980
Hobbs, NM 88240

OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

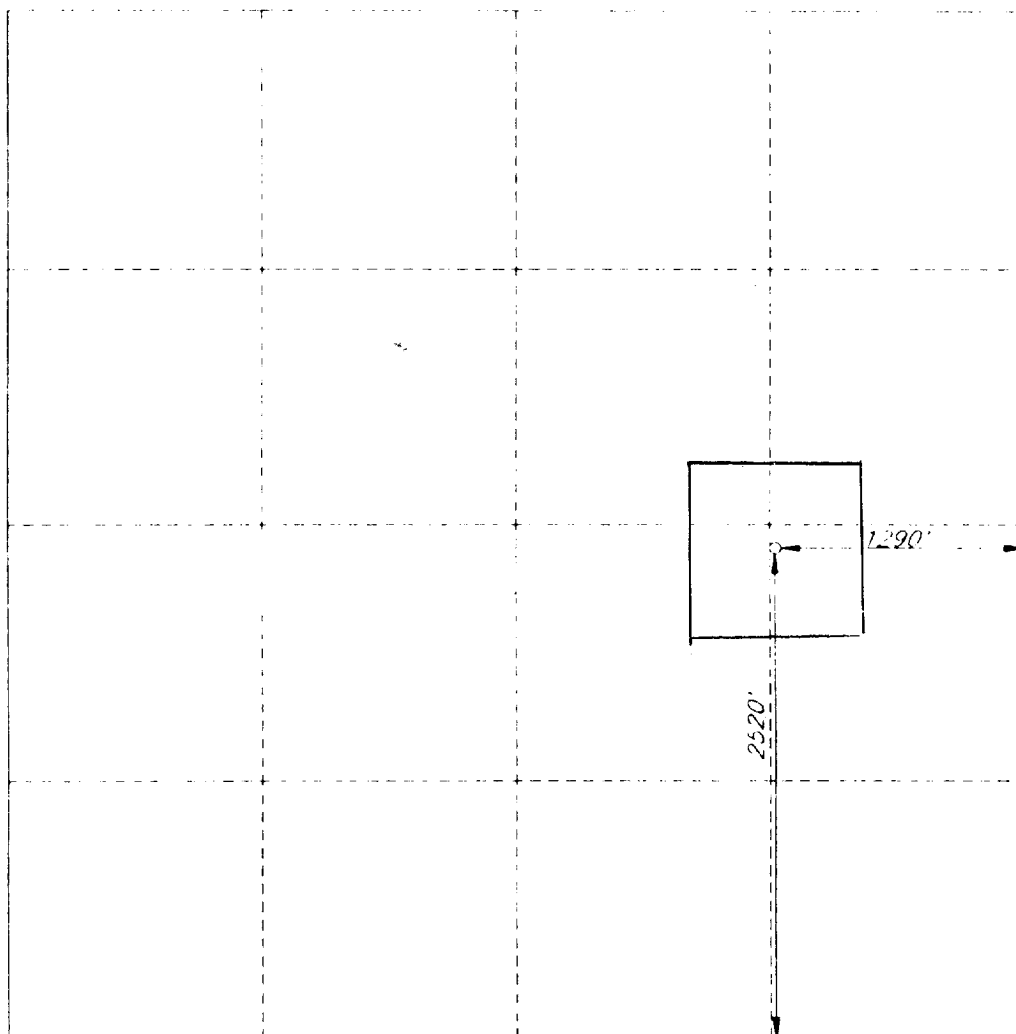
DISTRICT II
P. O. Drawer DD
Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd
Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All distances must be from the outer boundaries of the section

| | | | | | |
|---|----------------------|-----------------------------|------------------------------|--|----------------------|
| Operator PLAINS PETROLEUM OPERATING CO. | | | Lease EVA BLINEBRY | | Well No 20 |
| Unit Letter I | Section 34 | Township 23-SOUTH | Range 37-EAST | NMPM | County LEA |
| Actual Footage Location of Well | | | | | |
| 2520 feet from the | | SOUTH line and | | 1290 feet from the | |
| Ground Level Elev. 3268' | | Producing Formation | | Pool Langle Mattie FEARIE (7 RIVERS - QUEEN) | 40 Acres |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
- If more than one lease of different ownership is dedicated to the well, have the interest of all the owners been consolidated by communitization, unitization, forced pooling, etc.
☐ Yes ☐ No If answer is "yes", type of consolidation:
If the answer is "no", list the owners and tract descriptions which have actually been consolidated (Use the 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 interest, has been approved by the division



OPERATOR CERTIFICATION

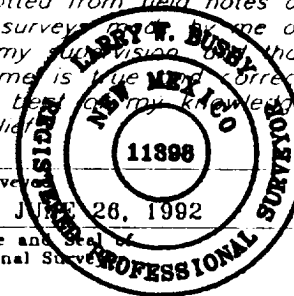
I hereby certify that the information herein is true and complete to the best of my knowledge and belief.

Signature
Mark A. Nieberding
Printed Name
MARK A. NIEBERDING
Position
PETROLEUM ENGINEER
Company
PLAINS PETROLEUM OPER. CO
Date
6/29/92

SURVEYOR CERTIFICATION

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
JUN 28, 1992
Signature and Seal
Professional Surveyor



Certificate No.
LARRY W. BUSBY R.P.S. #11398
LWB

APPLICATION TO DRILL

PLAINS PETROLEUM OPERATING COMPANY
Eva Blinbry No. 20
2660' FNL & 1290' FEL, Sec 34-T23S-R37E
2520 Lea County, New Mexico
Lease no. 064118

In addition with Form 3160-2, Application to Drill the above well, Plains Petroleum Operating Company submits the following in accordance with BLM requirements.

1. ESTIMATED GEOLOGICAL MARKERS

| <u>FORMATION</u> | <u>TOP</u> | <u>SS</u> |
|------------------|------------|-----------|
| T1 Anhydrite | 1045 | +2223 |
| T1 Salt | 1150 | +2118 |
| B1 Salt | 2345 | +923 |
| Yates | 2740 | +528 |
| Queen | 3025 | +243 |
| Penrose | 3400 | -132 |

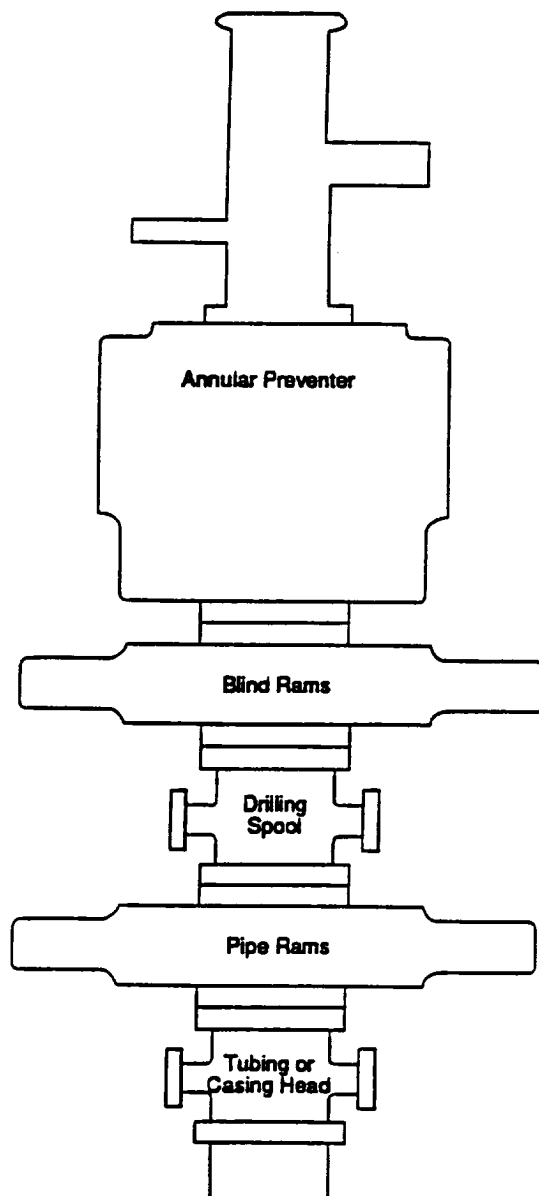
GL: 3268'

2. CASING DETAIL

| | <u>CASING SIZE OD</u> | <u>INTERVAL</u> | <u>LENGTH OF INTERVAL</u> | <u>WEIGHT #/FT</u> | <u>INTERVAL WEIGHT</u> | <u>CASING GRADE</u> | <u>JOINT</u> |
|------------|-------------------------------|-----------------|-----------------------------------|------------------------|----------------------------|-------------------------|--------------|
| Surface | 8-5/8" | 0-350' | 1175' | 24#/Ft | 8,400 | J-55 | STC |
| Production | 5-1/2" | 0-3650' | 3650' | 14#/Ft | 51,100 | J-55 | STC |
| Tubing | 2-3/8" | 0-3600' | 3600' | 4.7#/Ft | 16,920 | J-55 | EUE |

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

Figure 11J.4
Class III Blowout Preventer Stack



The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

1. The manifold is attached to a drilling spool or the top ram preventer side outlet.
2. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.
5. Includes a bleed line which runs straight through the cross and is isolated by a steel gate valve.
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.

