

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

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PHILLIPS PETROLEUM COMPANY

3. ADDRESS OF OPERATOR

4001 Penbrook St., Odessa, Texas 79762

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

At surface

UNIT M, 700' FWL & 660' FSL

At proposed prod. zone

UNIT M, 700' FWL & 660' FSL

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

22 Miles East of Carlsbad, NM

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

660'

(Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

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

1580'

16. NO. OF ACRES IN LEASE

320.48

19. PROPOSED DEPTH

7700'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3305' GL Unprepared

22. APPROX. DATE WORK WILL START*

Upon Approval

23.

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# | 475' | 650 sk C-Circ. to surface |
| 12-1/4" | 8-5/8" | 24# | 3700' | 1200 sk C-Circ. to surface |
| 7-7/8" | 5-1/2" | 15.5# & 14# | 7700' | 900 sk C-Circ. to surface |

USE MUD ADDITIVES AS NEEDED FOR CONTROL.

BOP equipment Figure 7-9 or 7-10 (See attached schematic)

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JUN 18 '90

O. C. D.
ARTESIA, OFFICE

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JUN 1 10 57 AM '90
CARLSBAD
AREA

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

J. L. Maples
J. L. Maples

TITLE

Asst., Regulation & Proration

DATE 5/31/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

By: Shannon J. Shaw

PETROLEUM ENGINEER

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

6-14-90

*See Instructions On Reverse Side

Title 18 U.S.C. 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 as to any matter within its jurisdiction.

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.

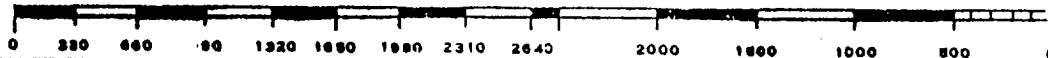
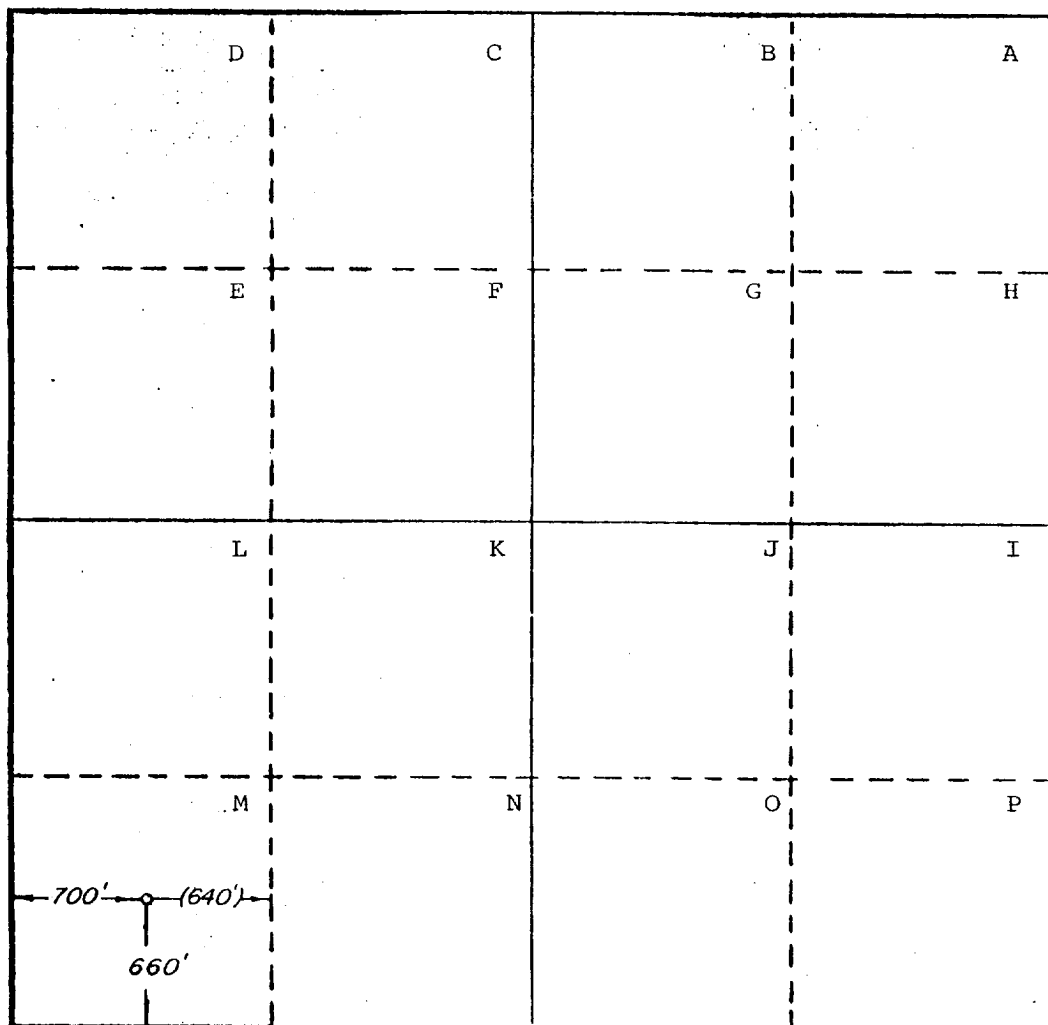
| | | | | | |
|--|--|-------------------------|--------------------------------------|-----------------------|---------------------------------------|
| Operator PHILLIPS PETROLEUM COMPANY | | | Lease LIVINGSTON RIDGE | | Well No. 1 |
| Unit Letter M | Section 1 | Township 22-S | Range 30-E | County EDDY | |
| Actual Footage Location of Well: 660 feet from the SOUTH line and 700 feet from the WEST line | | | | | |
| Ground Level Elev. 3305' | Producing Formation Delaware | | Pool Cabin Lake (Delaware) | | Dedicated Acreage: 40 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.



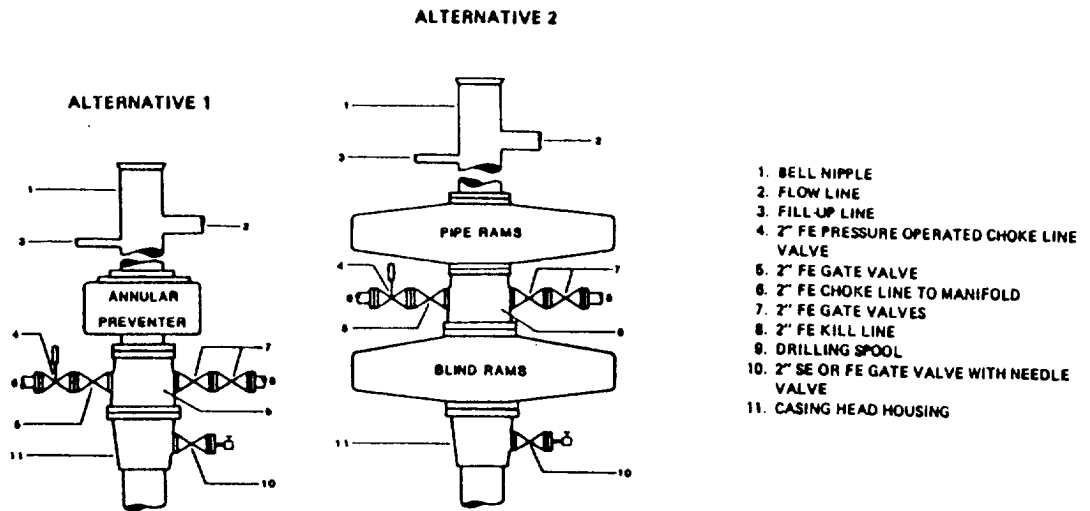
| | |
|---|--|
| CERTIFICATION | |
| I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. | |
| Name: J. L. Maples | |
| Position: Asst., Regulation & Proration | |
| Company: Phillips Petroleum Co. | |
| Date: 5/31/90 | |
| I hereby certify 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. | |
| MAY 17 1990 | |
| Date Surveyed: RICHARD B. DUNIVEN | |
| Registered Professional Engineer and/or Land Surveyor | |
| Certificate No. 4882 | |

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FIELD PRACTICES AND STANDARDS



NOTE: THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAMS IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 1

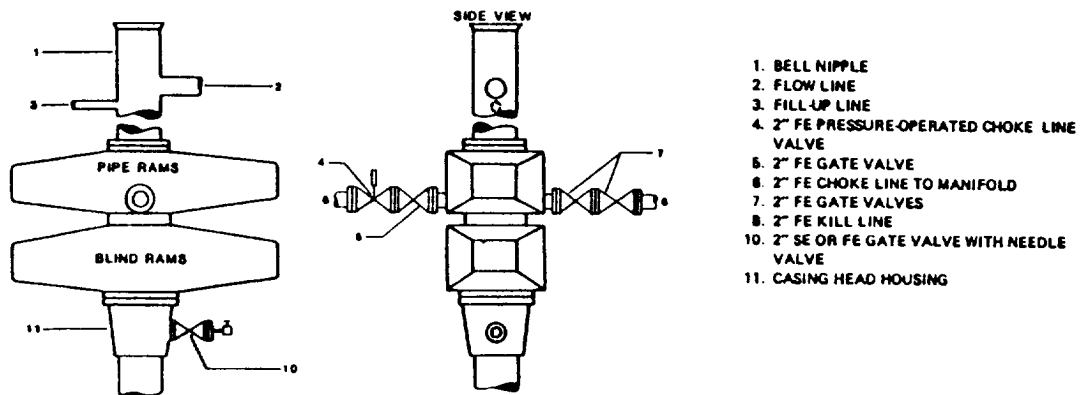


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

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SURFACE USE PLAN

Phillips Petroleum Company, Livingston Ridge Lease, Well No. 1, 660' FSL & 700' FWL, Section 1, T-22-S, R-30-E, Eddy County, New Mexico. (Fed Lease No. 70335.)

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 22 miles East of Carlsbad, New Mexico. The following is a discussion of pertinent information concerning the possible effect which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

A. East and West 1231' South of drill site

2. Planned Access Roads

A. North and South to SW corner of drill site

B. Turnouts: None

C. Drainage Design: New road will have center line to side line slope

D. Culverts, Cuts and Fills: None

E. Surfacing Material: Caliche well pad and roads.

F. Gates, Cattleguards, Fences: None

G. Proposed Road: The proposed road is centerline staked.

3. Locations of Existing wells: None

4. Locations of Tank Batteries, Production Facilities, Production Gathering, and Service Lines: The present tank battery is located - None
Flow line from Well No. 1 to run alongside proposed access roadway.

5. Water Supply Source: Hauled

6. Source of Construction Materials


A. Caliche for surfacing the new road and well pads will be obtained from
Federal pit from Section 11

B. Caliche pit is located on Federal pit from Section 11

7. Methods for Handling Waste Disposal

Will be put in separate waste pits and covered with minimum of 2' backfill. (See sketch.) If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. All produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted for appropriate approval.

8. Ancillary Facilities: None
9. Well Site Layout: Attached sketch shows the relative location and dimensions of the well pad, mud pit, reserve pit, and trash pit. Location will be 250 X 250.
10. Plans for Restoration of Surface:
Pit will be backfilled and levelled as soon as practical to original condition. If well is productive, caliche pad will remain as well service pad. If dry hole, pads and access roads will be ripped per regulations. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 60 days from commencement.
11. Other Information:
- A. Terrain: See Archaeological Survey
- B. Soil: See Archaeological Survey
- C. Vegetation: See Archaeological Survey
- D. Surface Use: Possible grazing
- E. Ponds and Streams: None
- F. Water Wells: None
- G. Residences and Buildings: 4 miles west of drill site
- H. Arroyos, Canyons, etc.: None
- I. Well Sign: Sign identifying and locating the well will be maintained at drill site with the spudding of the well.
- J. Archaeological Resources: See Archaeological Survey
12. Operator's Representative: Field personnel who can be contacted concerning compliance of the "Surface Use Plan" is as follows:
- | | | |
|-------------------------|----|-------------------------|
| Production and Drilling | or | D. J. Fisher |
| P. D. Appel | | 1625 West Marland |
| 4001 Penbrook Street | | Hobbs, New Mexico 88240 |
| Odessa, Texas 79762 | | Phone: 505-393-5121 |
| Phone: 915-367-1411 | | |
13. Certification:
I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Phillips Petroleum Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



J. L. Maples, Assistant
Regulation and Proration
(915) 367-1411

May 31, 1990
Date

REGPRO:JMAPL:ridgel.use

PHILLIPS PETROLEUM COMPANY
Livingston Ridge Well No. 1
Eddy County, New Mexico

DRILLING PROGNOSIS

1. Location of Proposed Well: 660' FSL & 700' FWL, Section 1, T-22-S,
R-30-E, Eddy County, New Mexico
2. Unprepared Ground Elevation: 3305'
3. The geologic name of the surface formation is See Archaeological
Survey
4. Type of drilling tools will be rotary.
5. Proposed drilling depth is 7700'.
6. The estimated tops of important geologic markers are as follows:

| | | | |
|----------------------|--------------|----------------------|--------------|
| <u>Rustler</u> | <u>315'</u> | <u>Brushy Canyon</u> | <u>5980'</u> |
| <u>Salado</u> | <u>620'</u> | <u>Bone Springs</u> | <u>7650'</u> |
| <u>Delaware Mt.</u> | <u>3780'</u> | | |
| <u>Cherry Canyon</u> | <u>4600'</u> | | |

7. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Oil: Brushy Canyon 5980'

8. The proposed casing program is as follows:

Surface String 13-3/8", 48#, set at 475'
Intermediate String 8-5/8", 24#, set at 3700'.
Production String 5-1/2", 14#, 15.5# set at 7700'.

9. Cement Program:

Surface String - Cement to surface with 650 sacks Class C cement.

Intermediate String - Cemented to surface with 1200 sacks Class C.

Production String - Cement with 900 sacks C - estimated top of cement
3500'.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are attached.
11. The proposed mud program is attached (see Drilling Specialties mud letter).
12. The testing, logging, and coring programs are as follows:

D.S.T.'s or cores None

Logs DIL-TD-3700+

Neutron Density TD - 3700'

Neutron Gamma Ray 0-TD

Dipmeter - Selective

Special Tests: None

13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H₂S equipment will be used.
14. The anticipated starting date is immediately upon approval with duration of operations for approximately 30 days thereafter.
15. Water Supply: Hauled
16. Caliche for road and pad construction to be obtained from Federal pit from Section 11.