

N. M. Oil Cons. Division

811-1311 E\*

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ARTESIA, NM 882-2834

cl/f

5. LEASE DESIGNATION AND SERIAL NO.  
NM 22080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

20860

8. FARM OR LEASE NAME, WELL NO.

BARCLAY FEDERAL 3

9. API WELL NO.

30-015-29694

10. FIELD AND POOL, OR WILDCAT

LIVINGSTON RIDGE (DEL) South

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12-T23S-R31E

12. COUNTY OR PARISH

EDDY

13. STATE

NM

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

2. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

3. NAME OF OPERATOR

ARCO Permian

990

4. ADDRESS AND TELEPHONE NO.

P.O. BOX 1610, MIDLAND, TX 79702

915-688-5570

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

At surface

660' FSL, 660' FEL

At proposed prod. zone

SAME

Unit P

JUN 24 1997

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

21 MILES EAST FROM LOVING, NM

OIL CON. DIV.

7. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 660

8. NO. OF ACRES IN LEASE

1280.81

9. NO. OF ACRES ASSIGNED TO THIS WELL

40

10. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320

11. PROPOSED DEPTH

8600 8560

12. ROTARY OR CABLE TOOLS

ROTARY

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

3507 GR

14. APPROX. DATE WORK WILL START\*

SPUD 6/97

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT           |
|--------------|-----------------------|-----------------|---------------|------------------------------|
| 17 1/2       | 13 3/8 H-40           | 48 STIC         | 860           | 775 <del>5x</del> CIRCULATE  |
| 11           | 8 5/8 K-55            | 32 STIC         | 4600          | 1800 <del>5x</del> CIRCULATE |
| 7 7/8        | 5 1/2 J-55            | 15.5, 17 LITE   | 8600          | 480 <del>5x</del>            |

Subject well is planned as a 6600' straight hole.  
3,000 psi BOPE will be used from 860' to TD.

Attachments are as follows:

1. Certified Location Plat
2. Drilling Plan with attachments
3. Surface Use Plan with attachments

Report to  
Bureau of Land Management and  
Special Operations  
Attached

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 W. Hughes TITLE REGULATORY COMPLIANCE DATE 05-08-97

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY B/G. Iberi J. Lucero TITLE Assoc State Director DATE 6-19-97

\*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.

RECEIVED  
MAY -9 P 9 59  
BUREAU OF LAND MGMT.  
ROSSELL OFFICE  
Posted 10-1  
NL & API  
6-27-98

PPH-210-08

2

77:4U

100-1000000

100-1000000

100-1000000

DISTRICT II  
P.O. Drawer 80, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

## OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                     |                               |                                   |
|---------------------|-------------------------------|-----------------------------------|
| API Number          | Pool Code                     | Pool Name                         |
|                     |                               | Livingston Ridge South (Delaware) |
| Property Code       | Property Name                 | Well Number                       |
|                     | BARCLAY FEDERAL               | 3                                 |
| OGRID No.<br>000990 | Operator Name<br>ARCO PERMIAN | Elevation<br>3507                 |

### Surface Location

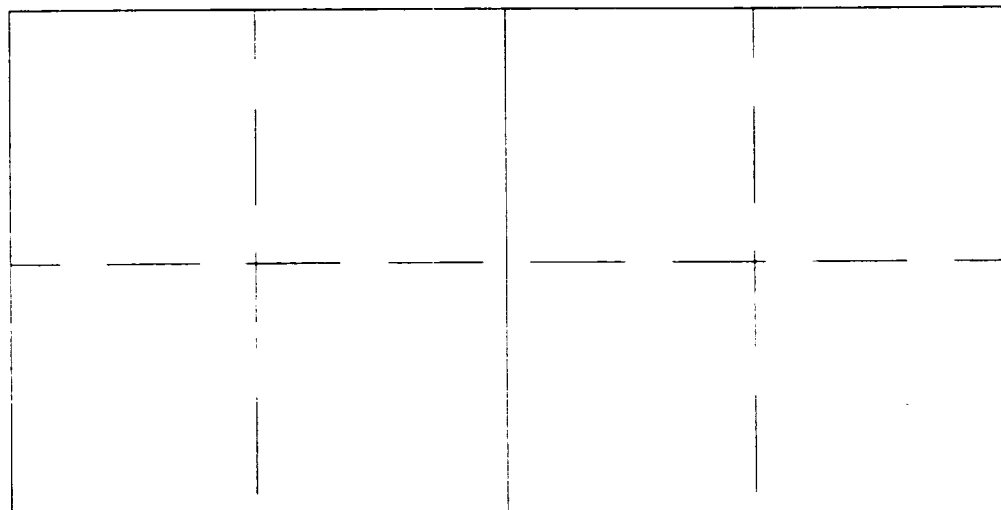
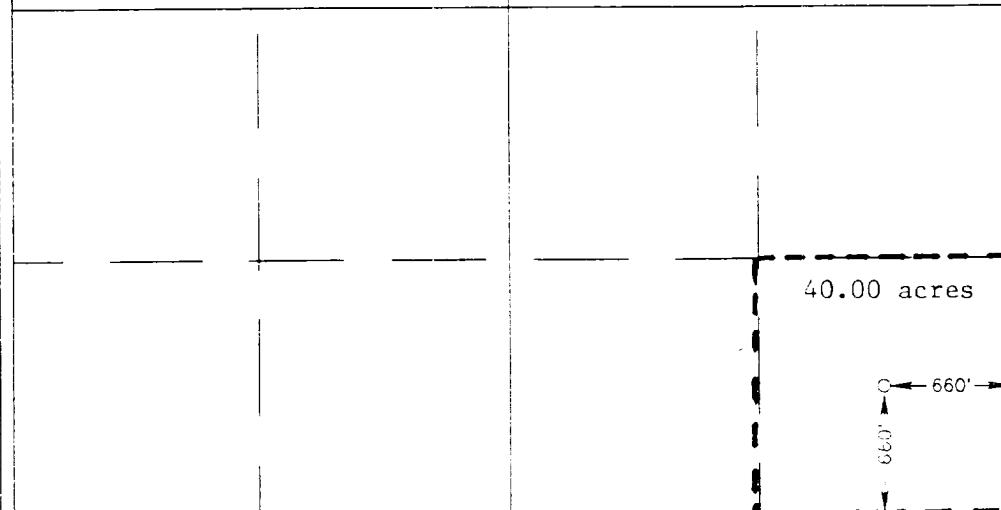
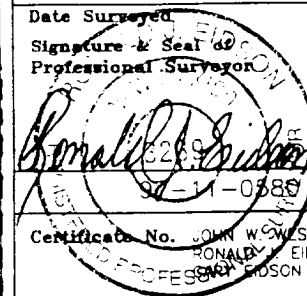
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 12      | 23 S     | 31 E  |         | 660           | SOUTH            | 660           | EAST           | EDDY   |

## Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

|                       |                 |                    |           |
|-----------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br>40 | Joint or Infill | Consolidation Code | Order No. |
|-----------------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|  |   |
|--|---|
|  | <p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p style="text-align: center;"><i>Charles W. Knight, Jr.</i></p> <p>Signature _____</p> <p>Charles W. Knight, Jr.</p> <p>Printed Name _____</p> <p>Regulatory Compliance</p> <p>Title _____</p> <p>April 16, 1997</p> <p>Date _____</p>   |
|  | <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><i>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 belief.</i></p> <p style="text-align: center;">MARCH 26, 1997</p> <p>Date Surveyed _____ DMCC</p> <p>Signature &amp; Seal of Professional Surveyor _____</p> <p style="text-align: center;">  </p> <p>Certificate No. JOHN W. WEST 676<br/>RONALD W. EIDSON 3239<br/>RONALD W. EIDSON 12641</p> |

# EXHIBIT 1

## DRILLING OPERATIONS

CLASS -1: NORMAL PRESSURE < 10PPG

OPTION - 2: MMS STANDARD; SINGLE SIZE DRILL STRING

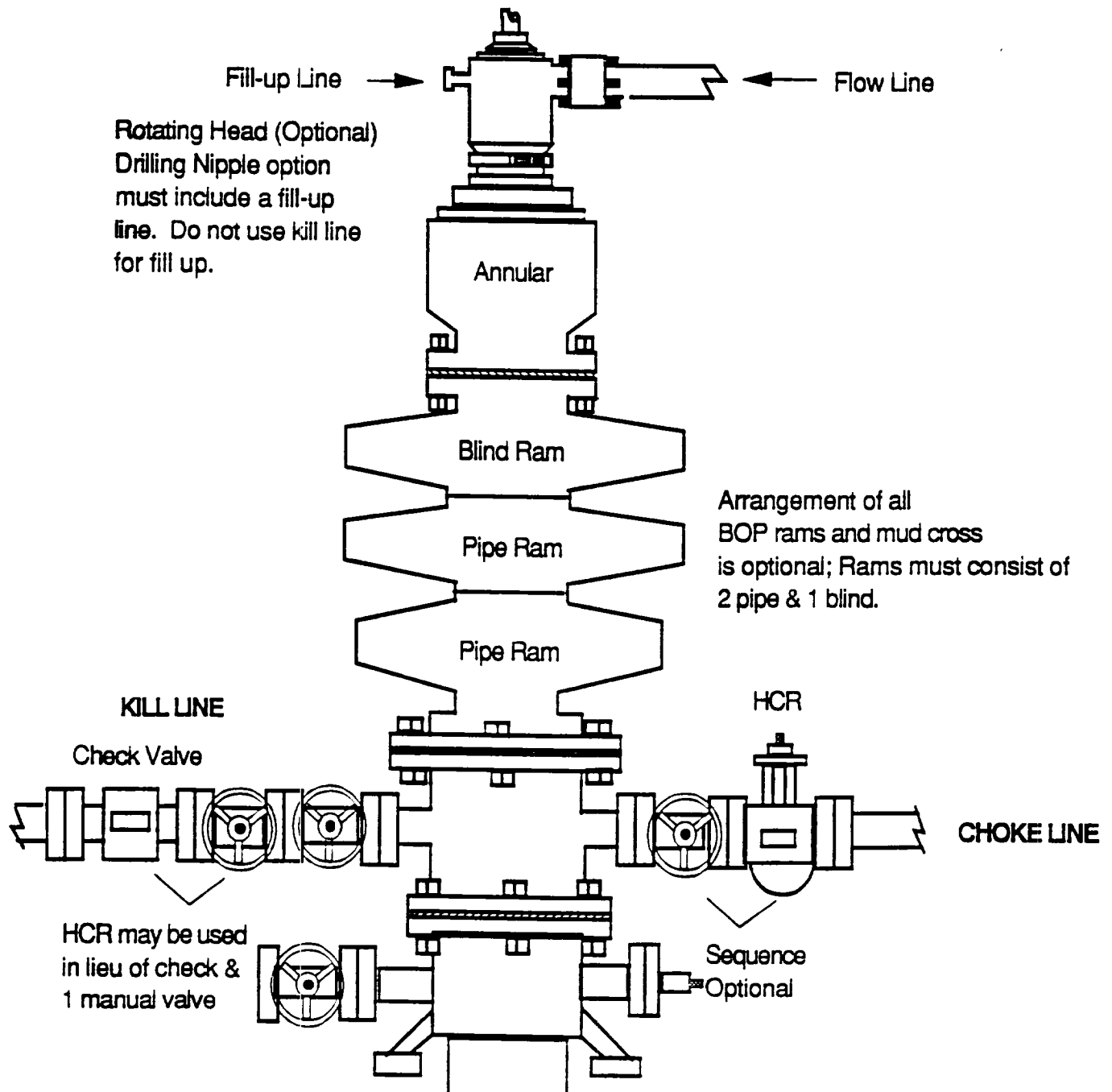
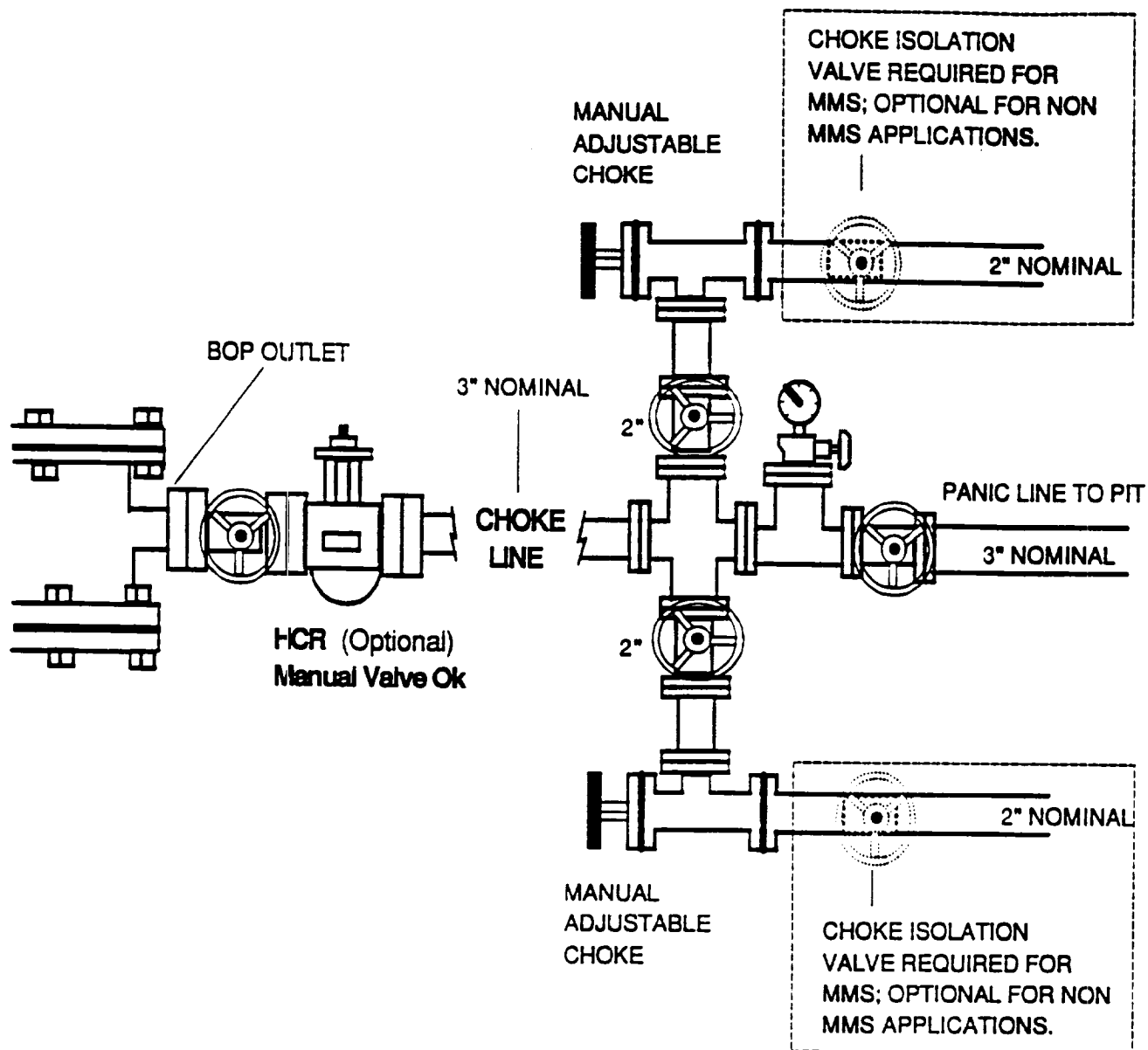




EXHIBIT 2

DRILLING OPERATIONS  
CHOKE MANIFOLD  
2M AND 3M SERVICE



## EXHIBIT 3

### Blowout Prevention Equipment Specifications

1. All BOP equipment shall be fluid and/or mechanically operated.
2. BOP's and all fittings will be in good working condition.
3. Equipment through which the bit must pass shall be at least as large as the casing size being drilled
4. The nipple above the BOP shall be at least the same size as the last casing set.
5. The upper kelly cock with handle and lower kelly cock shall be rated at the BOP working pressure.
6. A floor safety valve (full opening) or drill string BOP with appropriate pressure ratings shall be available on the rig floor with connections or subs to fit any tool joint in the string.
7. The minimum size choke line shall be 3 inches nominal diameter, with a minimum size for vent lines downstream of chokes of 2 inches nominal, and vent lines which by-pass shall be a minimum of 3 inches nominal and as straight as possible.
8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.
9. Minimum size for kill line is 2 inches nominal.
10. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.