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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
ARCO Permian 990

3. ADDRESS AND TELEPHONE NO.
P.O. Box 1610, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 660' FNL, 660' FWL lot 4
At proposed prod. zone SAME

5. LEASE DESIGNATION AND SERIAL NO.
NM 22080

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
BARCLAY FEDERAL 16
20860

9. API WELL NO.
30-015-30067

10. FIELD AND POOL, OR WILDCAT
LIVINGSTON RIDGE SOUTH (DEL)
96149

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
1-23S-31E

12. COUNTY OR PARISH
EDDY

13. STATE
NM

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE
1280.81

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. 1320

19. PROPOSED DEPTH
8450'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3505

22. APPROX. DATE WORK WILL START*
12/97

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 ST&C	860	700
11	8-5/8 J-55	32 ST&C	4600	1300
7-7/8	5-1/2 J-55	15.5 # LT&C	0-6700	935
		17# LT&C	6700-8450	

Part FD-1
2-13-98
HPI & Loc

SUBJECT WELL IS PLANNED AS A 8450' STRAIGHT HOLE.
3,000 PSI BOPE WILL BE USED FROM 860' TO TD.

APD Distribution Check List

Date

ATTACHMENTS ARE AS FOLLOWS:

1. CERTIFIED LOCATION PLAT
2. DRILLING PLAN WITH ATTACHMENTS
3. SURFACE USE PLAN WITH ATTACHMENTS

Geologist:

Surface Engineer:

12-2-97
(12-2-97)
DATE:

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 Elizabeth A. Casheer TITLE REGULATORY COMPLIANCE DATE 11/5/97

(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 15/M J Chavez TITLE STATE Director DATE 1-27-98
*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.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 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 39360	Pool Name LIVINGSTON RIDGE (OEL)
Property Code 20860	Property Name BARCLAY FEDERAL	Well Number 16
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3455

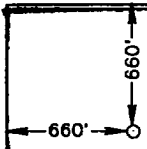
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	23 S	31 E		660	NORTH	660	WEST	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 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

	LOT 4 40.00 AC.	LOT 3 40.00 AC.	LOT 2 40.00 AC.	LOT 1 40.00 AC.

OPERATOR CERTIFICATION

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

Elizabeth A. Casbeer
Signature
ELIZABETH A. CASBEER
Printed Name
REG. / COMP. ANALYST
Title
11/19/97
Date

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 belief.

OCTOBER 21, 1997
Date Surveyed
JLP
Signature
RONALD J. EIDSON
Professional Surveyor
10-27-97
Date
NEW MEXICO
10-27-97
Date
1696
No. of Copies
1696
No. of Copies

Certificate No. **RONALD J. EIDSON, 3239**
MARY G. EIDSON, 12841
MACDONALD, 12185

BLOWOUT PREVENTION EQUIPMENT SPECIFICATIONS

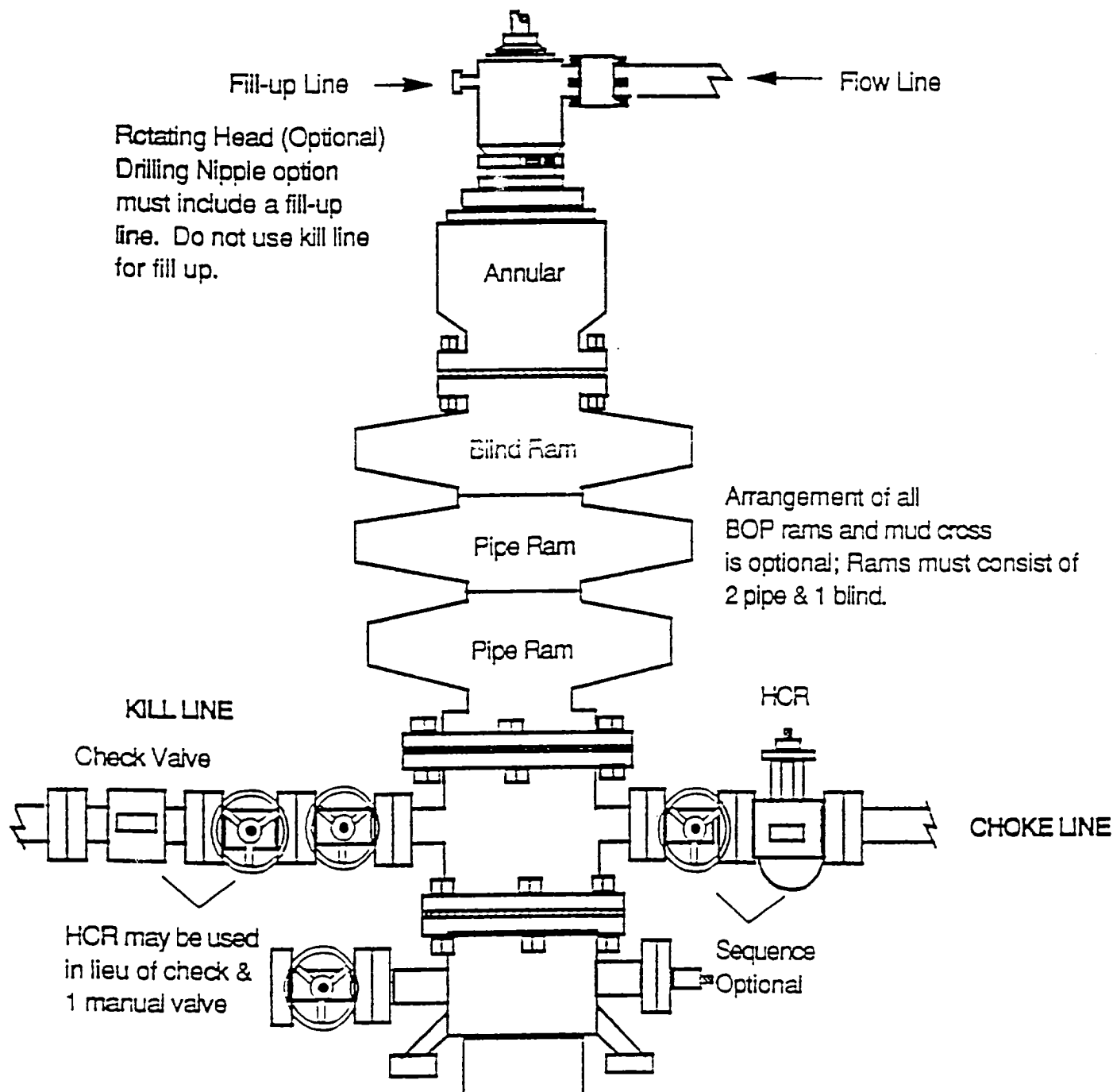
1. All BOP equipment shall be fluid and/or mechanically operated.
2. BOP's and all fittings will be in good working condition.
3. Equipment through which the bit must pass shall be at least as large as the casing size being drilled.
4. The nipple above the BOP shall be at least the same size as the last 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.

EXHIBIT 1

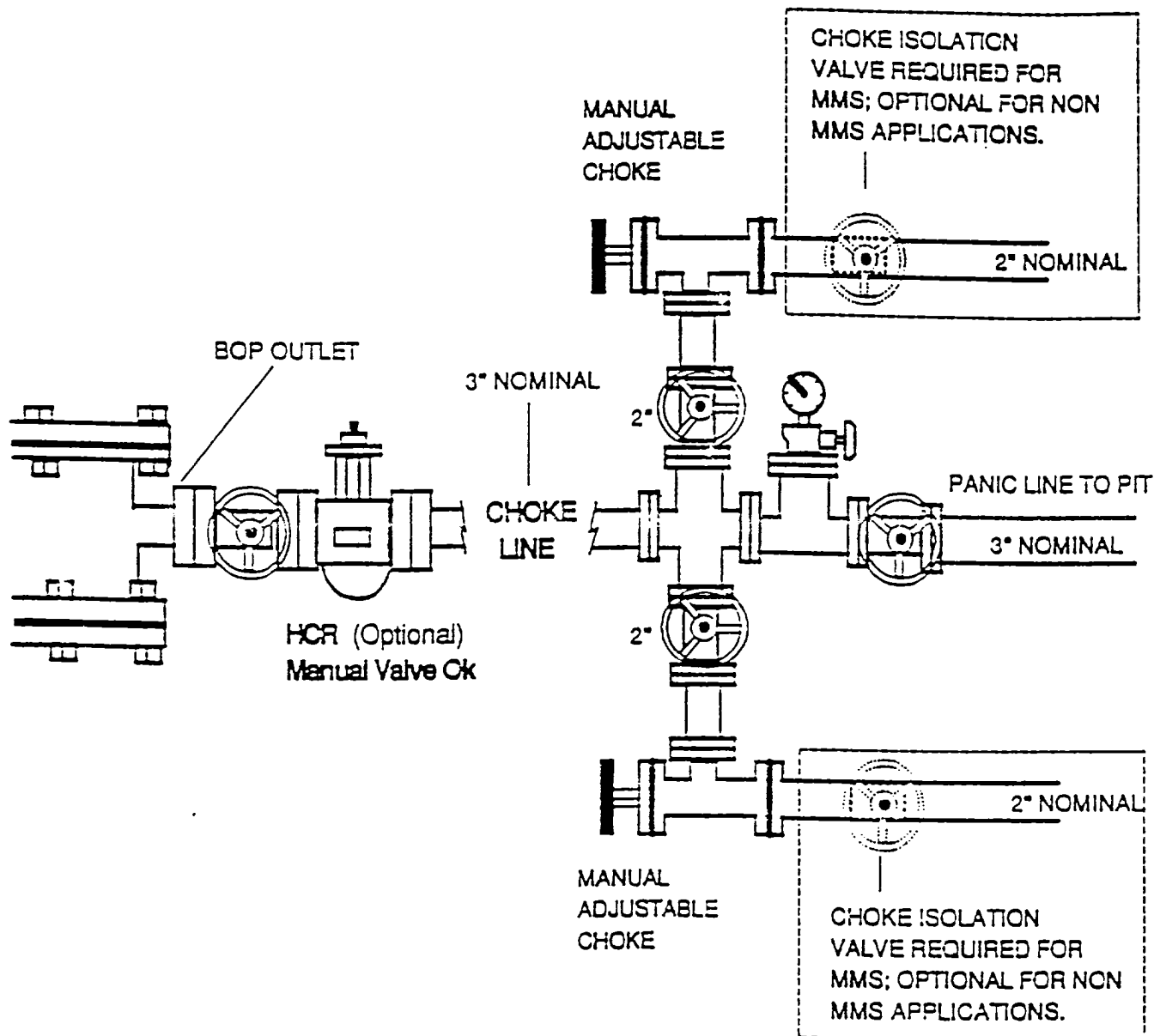
DRILLING OPERATIONS

CLASS -1: NORMAL PRESSURE < 10PPG

OPTION - 2: MMS STANDARD; SINGLE SIZE DRILL STRING



DRILLING OPERATIONS
CHOKE MANIFOLD
2M AND 3M SERVICE



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