

N. M. Oil Cons. Division

Form 3160-3
(July 1992)

811 8 107 017
SUBMIT IN THE DATE*
ARTESIA (Other Areas) 2834
reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

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 17
20860

9. API WELL NO.
30-015-30238

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

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
12. T23S. R31E

12. COUNTY OR PARISH
EDDY

13. STATE
NM

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

20. ROTARY OR CABLE TOOLS
ROTARY

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

1a. TYPE OF WORK
DRILL DEEPEN

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
ARCO Permian 990

3. ADDRESS AND TELEPHONE NO.
P.O. Box 1610, Midland, TX 79702 915-688-5570

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1980° FSL, 1980° FEL
At proposed prod. zone
SAME UNIT J

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 dtdg. unit line, if any) 1980

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 3491'

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	WITNESS
17-1/2	13-3/8 H-40	48 ST&C	860	700	CIRCULATE
11	8-5/8 J-55	32 ST&C	4600	1300	CIRCULATE
7-7/8	5- 7/2 J-55	15.5 # LT&C 17# LT&C	0-6700 6700-8450	935	

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

- ATTACHMENTS ARE AS FOLLOWS:
- CERTIFIED LOCATION PLAT
 - DRILLING PLAN WITH ATTACHMENTS
 - SURFACE USE PLAN WITH ATTACHMENTS

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Post ID-1
5-8-98
API & hcc

acs
4/8/98

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 3/25/98

(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:

(ORIG. SGD.) M. J. CHÁVEZ

STATE DIRECTOR

APPROVED BY _____ TITLE _____ DATE 4-24-98

*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 1960, Hobbs, NM 88241-1960

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
1000 Rio Brazos Rd., Aztec, NM 87410

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96149	Pool Name LIVINGSTON RIDGE (DEL)
Property Code 20860	Property Name BARCLAY FEDERAL	Well Number 17
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3491'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	23 S	31 E		1980	SOUTH	1980	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 40	Joint or Infill	Consolidation Code	Order No.
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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>OPERATOR CERTIFICATION</p> <p>I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Elizabeth A. Casbeer</i> Signature ELIZABETH A. CASBEER Printed Name REG/COMP. ANALYST Title 3/25/98 Date</p>	
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>FEBRUARY 23, 1998 Date Surveyed CDG</p> <p>Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 3-04-98 98-1-0358</p>	
	<p>Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641</p>	
	<p>Professional Surveyor</p>	

EXHIBIT 1

DRILLING OPERATIONS
CLASS -1: NORMAL PRESSURE < 10PPG
OPTION - 2: MMS STANDARD; SINGLE SIZE DRILL STRING

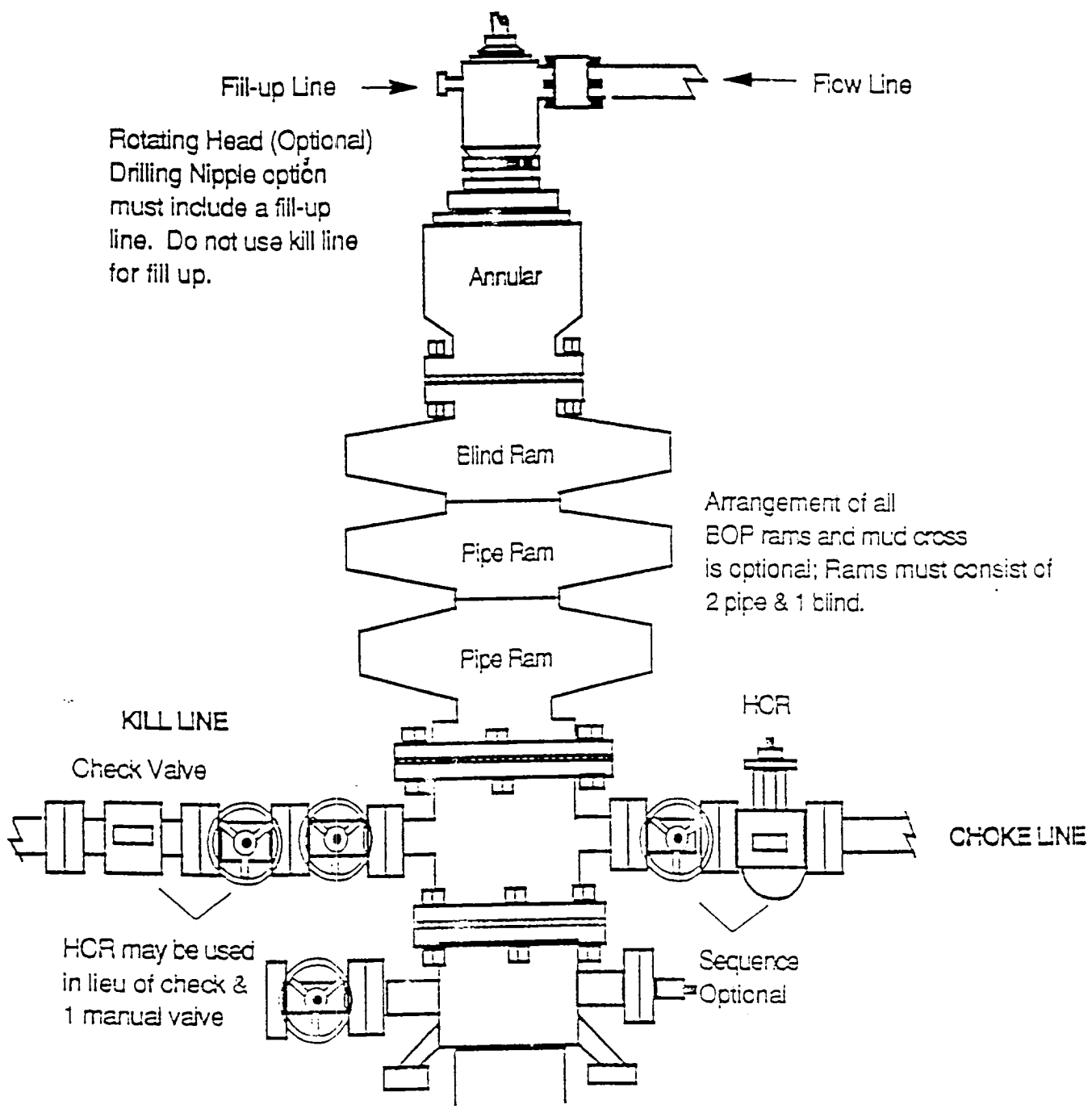


EXHIBIT 2

DRILLING OPERATIONS
CHOCKE MANIFOLD
2M AND 3M SERVICE

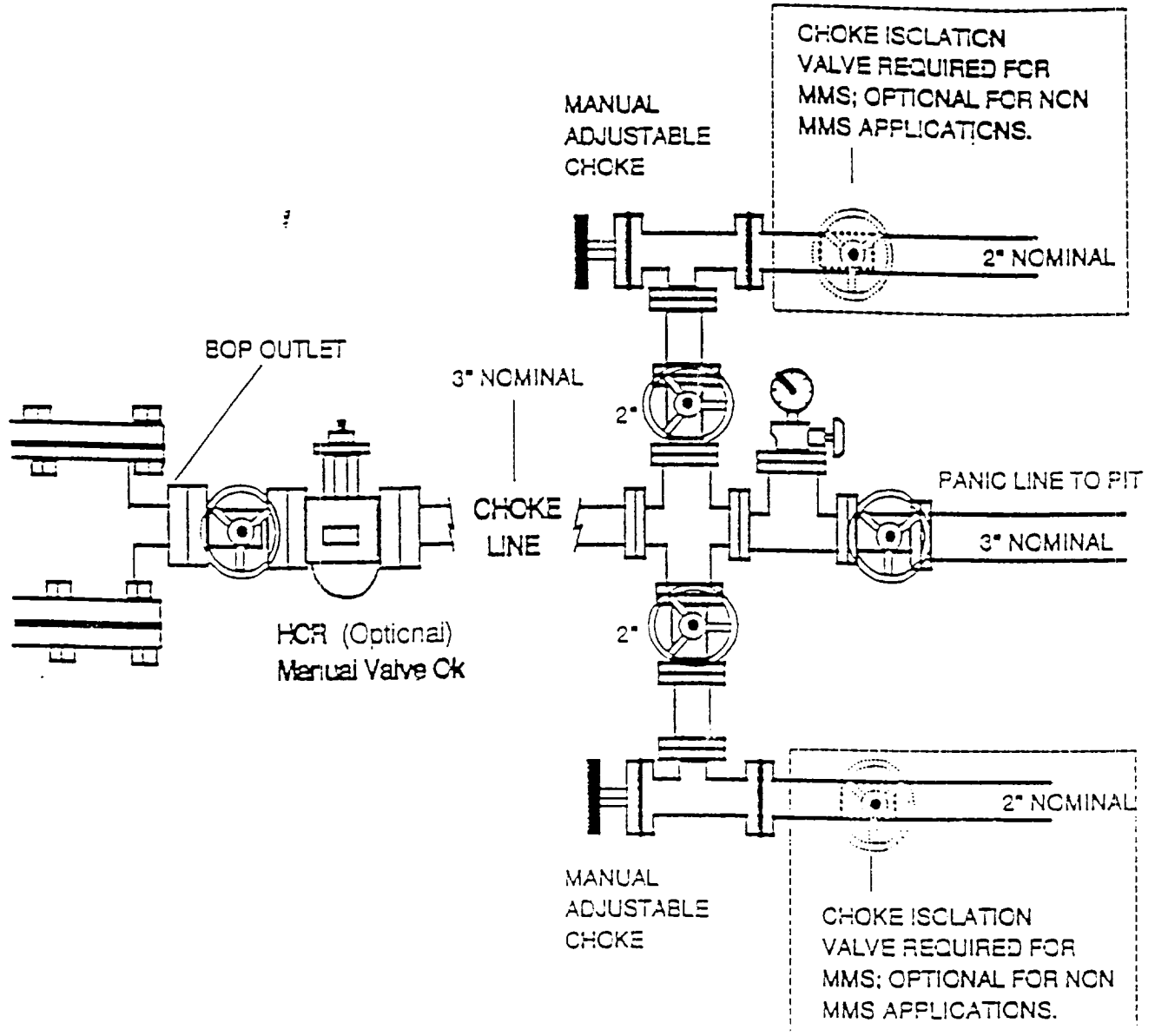


Exhibit 3

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.