

N. M. Oil Cons. Division

811 S. 1ST ST.

ARTESIA 'M 88210-2834
UN D STATES

SUBMIT IN TRIPLICATE*
(Other instructions reverse side)

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

Form 3160-3
(July 1992)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

930

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

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

915-688-5532

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

At surface

660' FSL, 660' FEL

At proposed prod. zone

SAME

UNIT P

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.)

3506'

22. APPROX. DATE WORK WILL START*

5/98

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	

SUBJECT WELL IS PLANNED AS A 8450' 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

THIS APD WAS ORIGINALLY APPROVED ON 5/28/98. DUE TO ITS EXPIRATION, WE ARE RE-SUBMITTING FOR APPROVAL.

Post ID-1
11-12-99
APD + loc

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 Laurie Cherry

TITLE REGULATORY COMPLIANCE

DATE 9/14/99

(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 11-1-99

*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.

100 12

100 12

RECEIVED
SEP 21 1980
BLM
ROSWELL, NM

DISTRICT I
P.O. Box 1990, Hobbs, NM 88241-1990

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	Pool Name
	96149	LIVINGSTON RIDGE (DEL)
Property Code	Property Name	Well Number
20860	BARCLAY FEDERAL	20
OGRID No.	Operator Name	Elevation
000990	ARCO PERMIAN	3506'

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	1	23 S	31 E		660	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

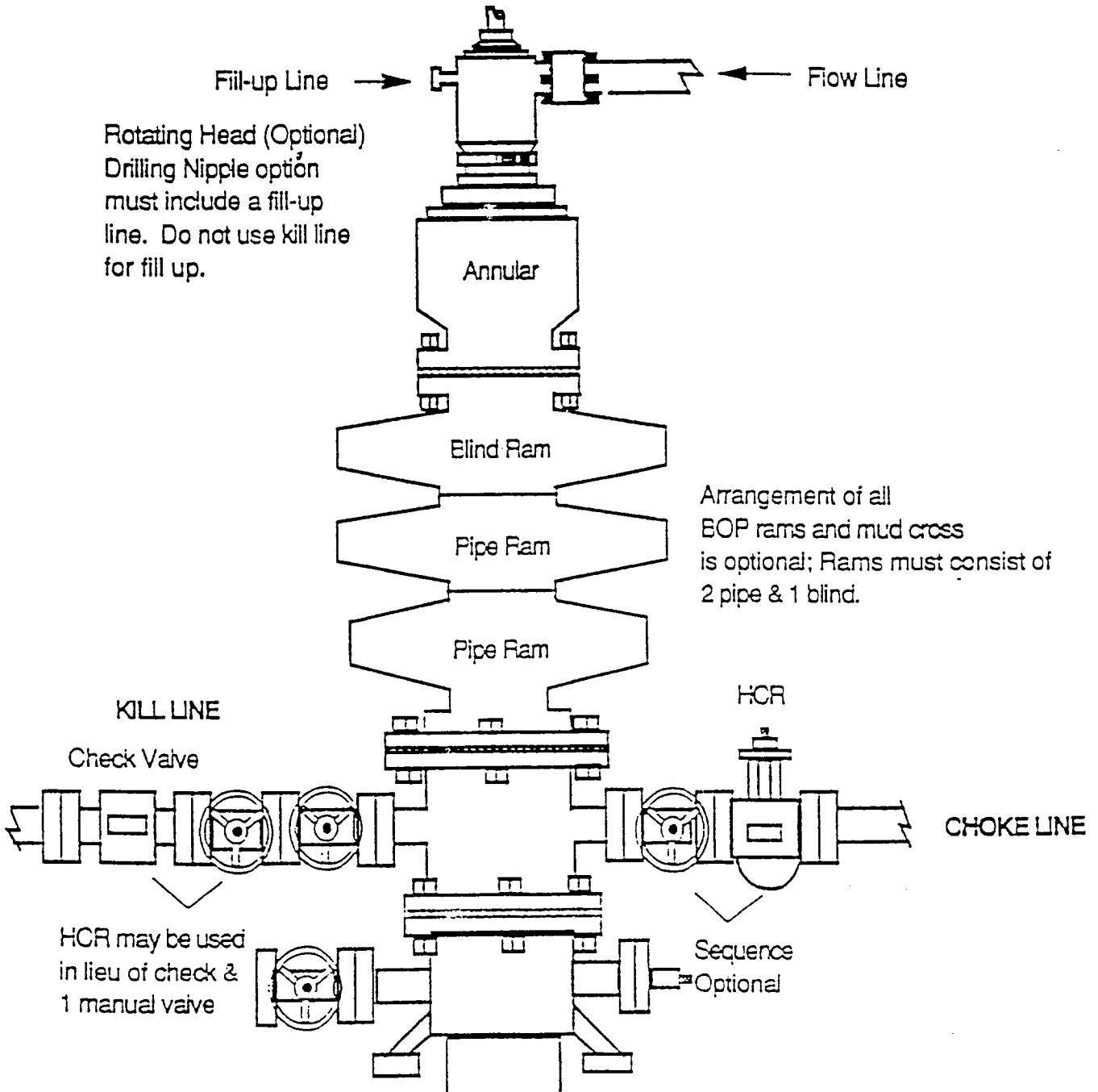
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
40									

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

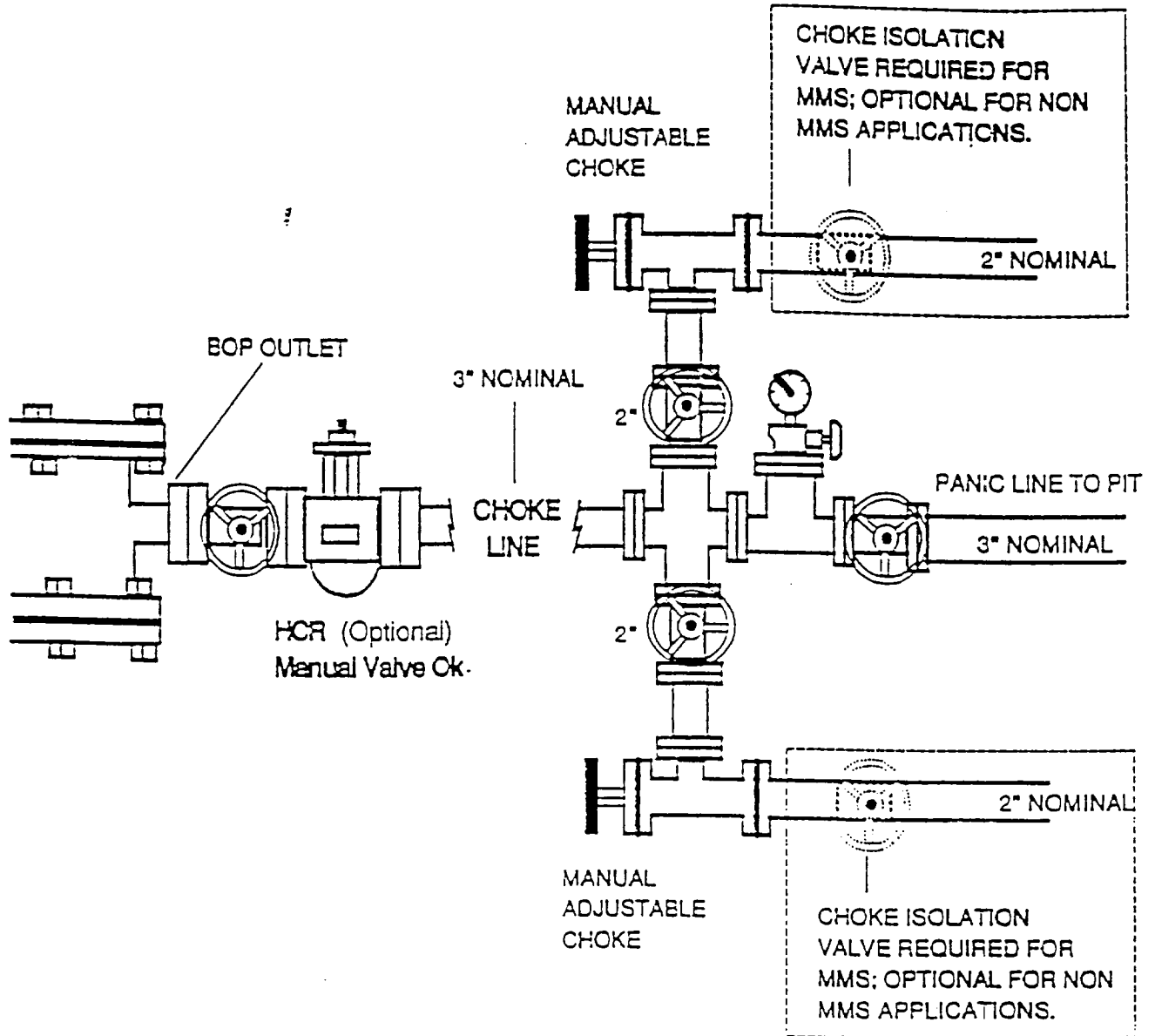
	<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p><i>Laurie Cherry</i> Signature</p> <p>Laurie Cherry Printed Name</p> <p>REG. / COMP. ASST. Title</p> <p>9/14/99 Date</p>
	<p>SURVEYOR CERTIFICATION</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>MARCH 25, 1998</p> <p>Date Surveyed _____ CDG</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Ronald D. Edson</i> Professional Surveyor</p> <p>3-30-98 88-1-0436</p> <p>Certificate No. RONALD D. EDSON 3239 CARMADISON 12641</p>

EXHIBIT 1

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



DRILLING OPERATIONS
CHOKE MANIFOLD
2M AND 3M SERVICE



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.

