

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. ARCH PETROLEUM, INC. 10 DESTA DRIVE, STE. 420E MIDLAND TX 79705		OGRID Number 000962
Property Code 14897	Property Name BERTHA	API Number 30-025- 33549
		Well No. 5

7 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North / South line	Feet from the	East / West line	County
M	23	24S	37E		800'	SOUTH	990'	WEST	Lea

8 Proposed 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
Proposed Pool 1 FOWLER ABO					Proposed Pool 2				

Work Type Code N	Well Type Code O	Cable / Rotary R	Lease Type Code P	Ground Level Elevation
Multiple NO	Proposed Depth 6,500'	Formations ABO	Contractor UNKNOWN	Spud Date 9/1/96

Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight / foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8"	24#	1075'	600 sx.Cl.'C'	SURFACE
7-7/8"	5-1/2"	15.5#	6,500'	1650 sx.Cl.'C'	1075'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

MUD PROGRAM;
O-1075' FW/Spud Mud 8.8-9.0 #/gal., 32 visc., 10 pH
1075'-6,800' BW 10#/gal., 28 visc., 10 pH
6800'-6800 BW/Starch 10#/gal., 30 visc., 10 pH

See attached BOP drawing for 3000 psi system.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Bobbie Brooks</i>	Print name: Bobbie Brooks	Approved by: <i>ORIG. SIGNED BY JERRY ECKTON</i>	Title: DISTRICT I SUPERVISOR
Title: Production Analyst	Date: 8/20/96	Approval Date: <i>8/20/96</i>	Expiration Date: <i>8/20/97</i>
Phone: 685-1961	Conditions of Approval: Attached ☐		

C-101 Instructions

Measurements and dimensions are to be in feet / inches. Well locations will refer to the New Mexico Principal Meridian.

18. Geologic formation at TD.
19. Name of the intended drilling company if known.
20. Anticipated spud date.

2. Operator's name and address.
3. API number of this well. If this is a new drill the OCD will assign the number and fill it in.
4. Property code. If this is a new property the OCD will assign the number and fill it in.
5. Property name that used to be called 'well name'.
22. Brief description of the proposed drilling program and BOP program. Attach additional sheets if necessary.
23. The signature, printed name, and title of the person authorized to make this report. The data this report was signed and the telephone number to call for questions about this report.

7. The surveyed location of this well New Mexico principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the UL or lot no. box. Otherwise use the OCD Unit letter.

8. The proposed bottom hole location of this well at TD.
- 9 and 10. The proposed pool(s) to which this well is being drilled.

11. Work type code from the following table:

N	New Well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone

12. Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well

13. Cable or rotary code

C	Propose cable tool drill
R	Propose to rotary drill

14. Lease type code from the following table:

F	Federal
S	State
P	Private
N	Navajo
J	Jicarilla
U	Ute
I	Other indian tribe

15. Ground level elevation above sea level.

16. Intend to multiple complete? Yes or No.

17. Proposed total depth of this well.

DISTRICT I
P.O. Box 1960, Hobbs, NM 88241-1960

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

DISTRICT IV
P.O. BOX 8088, SANTA FE, N.M. 87504-8088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
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Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-33549	Pool Code 96455	Pool Name Fowler Abo
Property Code 14897	Property Name BERTHA	Well Number 5
OGRID No. 962	Operator Name ARCH PETROLEUM, INC.	Elevation 3214

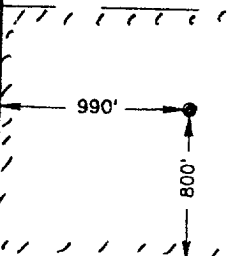
Surface Location

UL or lot No. M	Section 23	Township 24 S	Range 37 E	Lot Idn	Feet from the 800	North/South line SOUTH	Feet from the 990	East/West line WEST	County LEA
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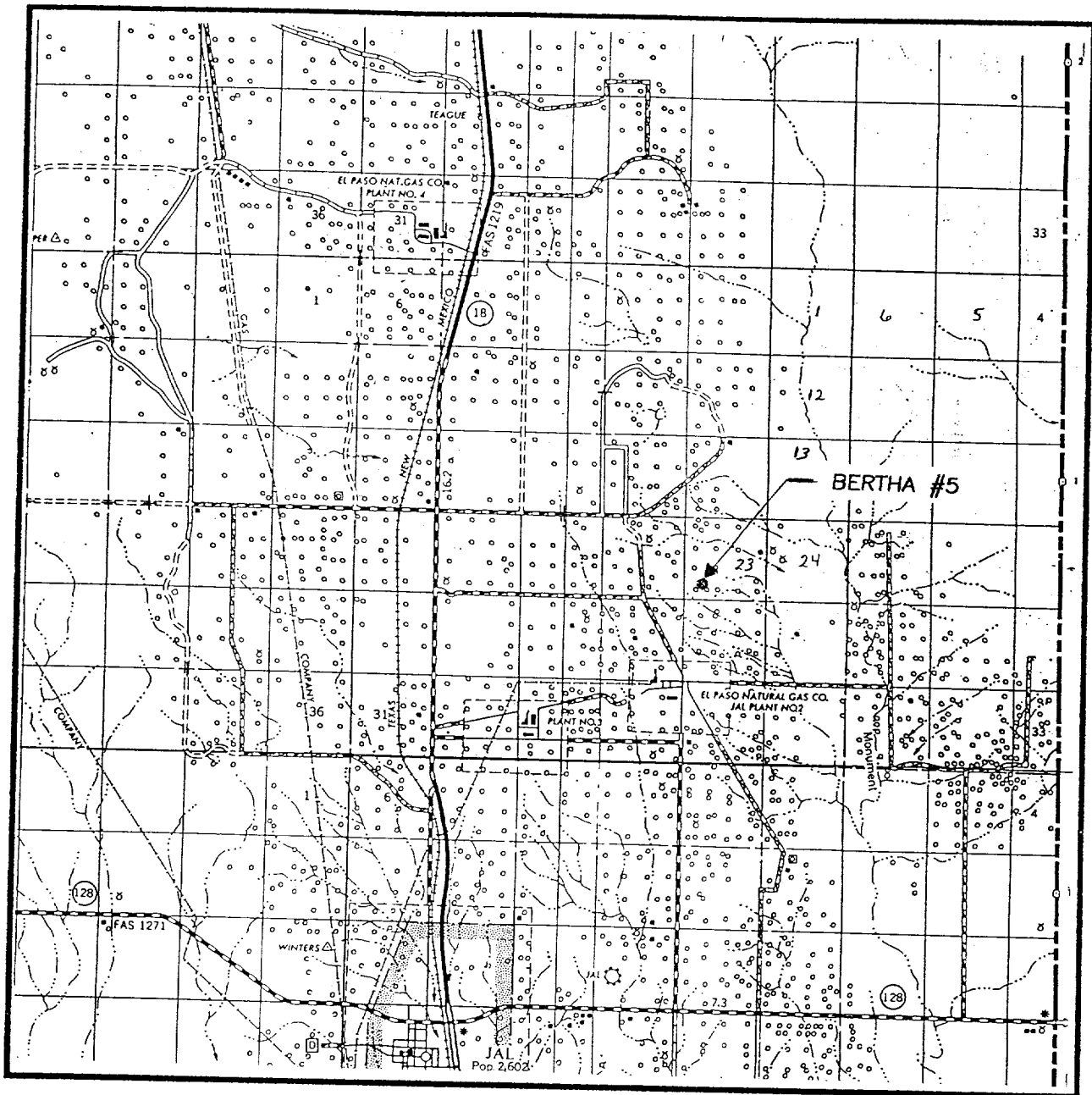
Bottom Hole Location If Different From Surface

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 J	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

					OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Bobbie Brooks</i> Signature BOBBIE BROOKS Printed Name PRODUCTION ANALYST Title 8/20/96 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. AUGUST 14, 1996 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> W.O. Num. 96-15-1006 Certificate No. JOHN W. WEST 876 RONALD J. EIDSON 3239 GAR EIDSON 12641			

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 23 TWP. 24-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 800' FSL & 990' FWL

ELEVATION 3214'

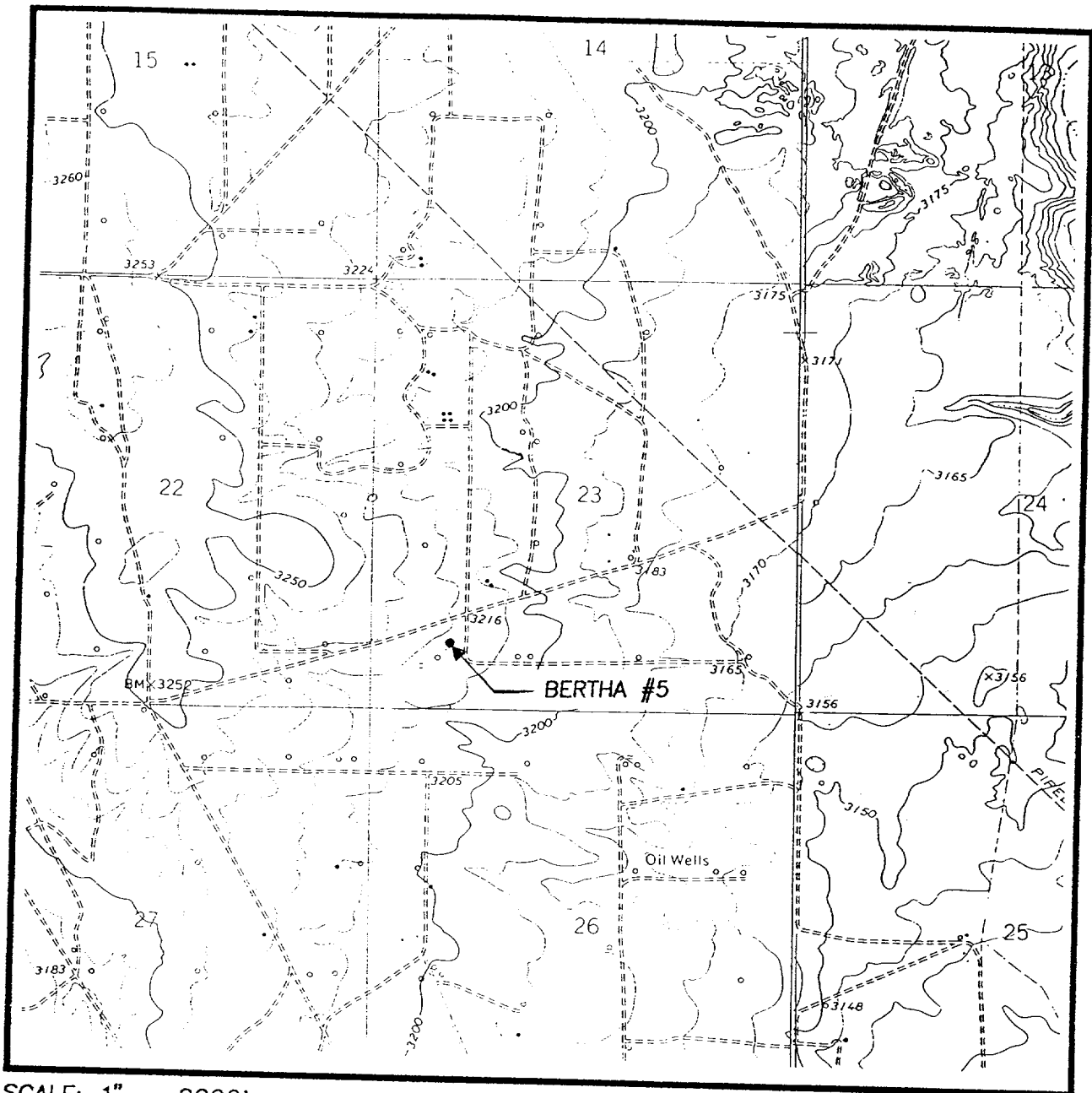
OPERATOR ARCH PETROLEUM, INC.

LEASE BERTHA

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO

(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:

JAL, NW - 10'

JAL, NE - 5'

SEC. 23 TWP. 24-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 800' FSL & 990' FWL

ELEVATION 3214'

OPERATOR ARCH PETROLEUM, INC.

LEASE BERTHA

U.S.G.S. TOPOGRAPHIC MAP

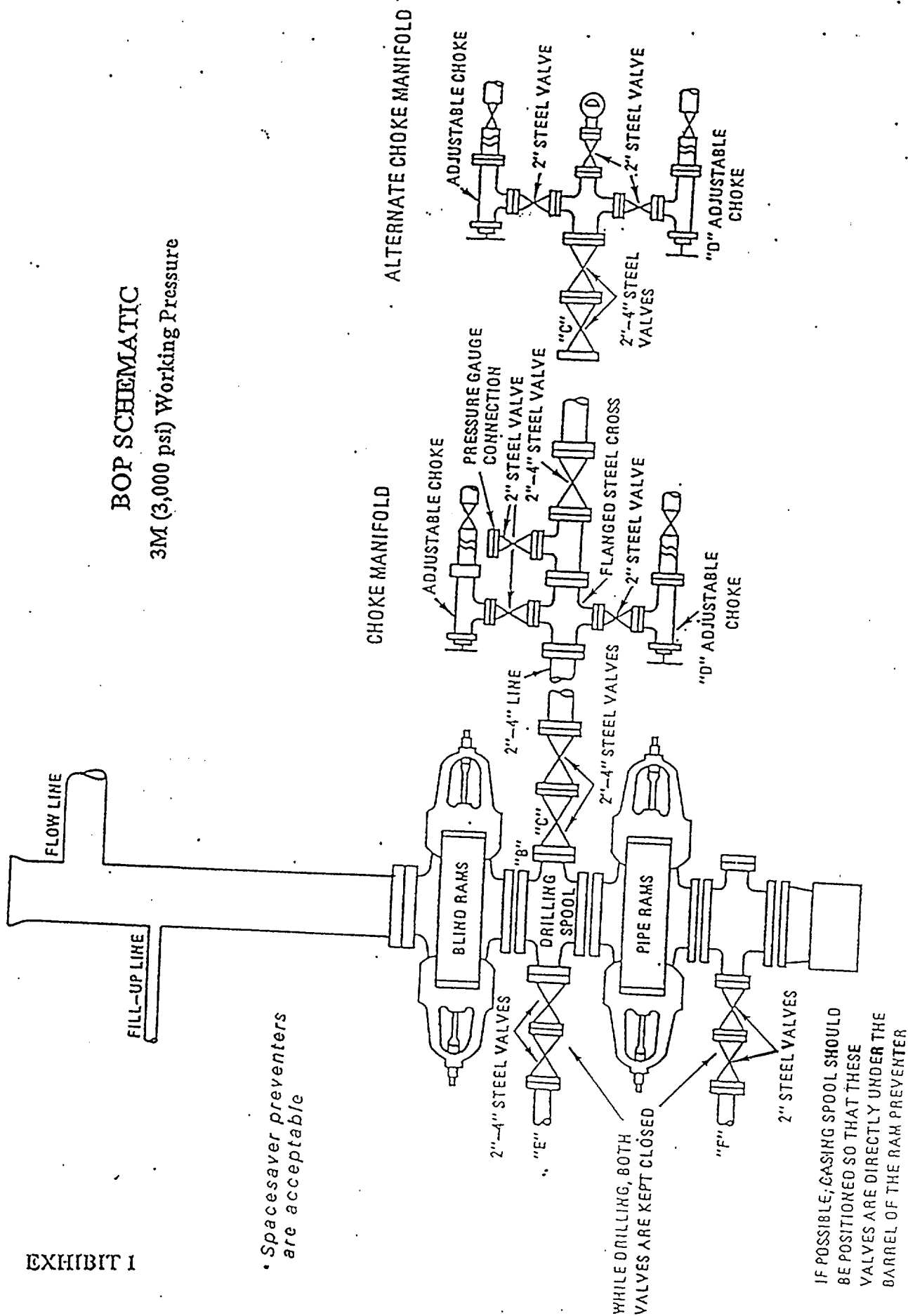
JAL, N.M., N.W. & N.E.

**JOHN WEST ENGINEERING
HOBBS, NEW MEXICO**

(505) 393-3117

EXHIBIT 1

BOP SCHEMATIC 3M (3,000 psi) Working Pressure



• Spacesaver preventers are acceptable