

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
PO Box 2088
Santa Fe, NM 87504-2088

Revised February 21, 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. CONOCO INC. 10 DESTA DRIVE STE 100W MIDLAND, TEXAS 79705		OGRID Number 005073
Property Code NA 17133		Property Name Savannah State
Well No. 1		

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	32	19S	25E		660	North	660	East	Eddy

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	32	19S	25E		1100	North	1100	East	Eddy

Proposed Pool 1 Boyd Morrow	72840	Proposed Pool 2 North Dagger Draw Upper Penn	15472
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Work Type Code N	Well Type Code G/O	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3502'
Multiple No	Proposed Depth 9650' TV/9853' MD	Formation Morrow/Cisco	Contractor	Spud Date 6/1/95

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14-3/4"	9-5/8"	36#	1200'	1100	Surface
8-3/4"	7"	26#	9853' MD	1700	Surface
					Post ID-1
					5-26-95
					New Log & APF

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.

It is proposed to drill this well vertically through the Cisco, to kick off at 7900' (TVD) and drill directionally through the Morrow at a 29.5° angle of deflection to 9650' (TVD) and 9853' (MD) according to the drilling plans in the following attachments:

1. Well Location & Acreage Dedication Plat (C-102)
2. Proposed Well Plan Outline.
3. Directional Drilling Plan: Vert. & Horiz. Projections and Calculations
4. Cementing Program.
5. BOP & Choke Manifold Specifications

Application for this unorthodox Morrow location has been presented at an OCD Hearing.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Jerry W. Hoover</i> Printed name: Jerry W. Hoover Title: Sr. Conservation Coordinator		OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY TIM W. GUM Title: DISTRICT II SUPERVISOR Approval Date: MAY 19 1995 Expiration Date: 11-19-95 Conditions of Approval: Notify N.M.O.C.C. in sufficient time to witness cementing Attached ☐	
Date: 9/27/95 4/27/95	Phone: (515) 686-6548		

DD: NSC - R-10366
5-17-95

the 9 5/8" casing

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Form C-102
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WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025- 30-015-28519	'Pool Code 72840/15472	'Pool Name Boyd Morrow/North Dagger Draw Upper Penn
'Property Code NA	'Property Name SAVANNAH STATE	'Well Number 1
'OGRD No. 005073	'Operator Name CONOCO, INC.	'Elevation 3502'

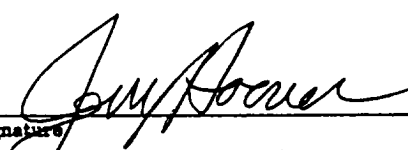
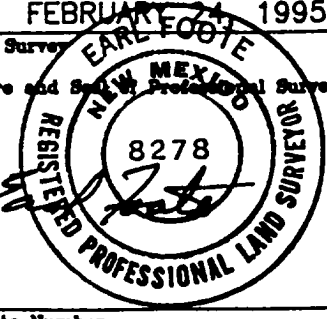
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	19-S	25-E		660	NORTH	660	EAST	EDDY

¹¹ 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 320/160		'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

16	660' 660'				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature JERRY HOOVER Printed Name SENIOR CONSERVATION COORDINATOR Title 4/27/95 Date
					18 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 best of my belief. FEBRUARY 24, 1995 Date of Survey  Signature and Seal of Professional Surveyor:  Certificate Number 8278

PROPOSED WELL PLAN OUTLINE

WELL NAME **SAVANNAH STATE No. 1**

LOCATION **660'FNL 660'FEL SEC. 32 T-19S R-25E EDDY CO.**

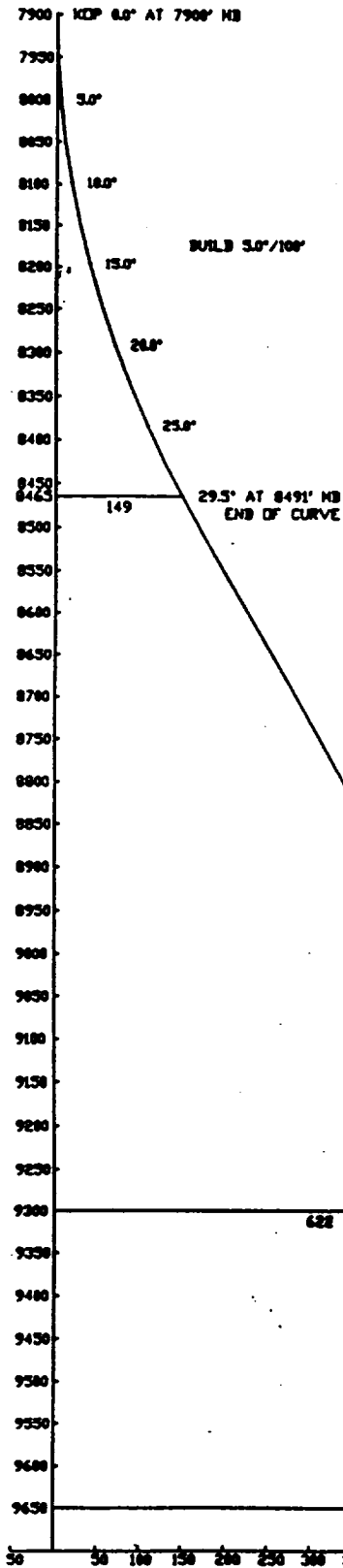
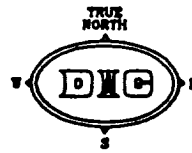
TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	WT	MUD TYPE	DAYS
0			LOST CIRCULATION		14-3/4"			BELOW NORMAL	8.4	FRESH	
1				MUD LOGGERS AND EQUIPMENT ON @ 1200'		9-5/8" 1200' 36# K-55					3
2		GLORIETTA 1989' YESO 2145'	H2S IN YESO	H2S EQUIPMENT ON PRIOR TO YESO FORMATION				9.0 PPG	8.8-9.2	C/BRINE	
3											
4		ABO 4198'	POSSIBLE DEVIATION 4500'-5500'		8-3/4"						
5		WOLFCAMP 5100'									
6											
7									9.2	C/BRINE STARCH	
8		CISCO 7600'	DIRECTIONAL @ 29.5 DEG. F/KOP @ 7900' TO 9650' TVD								16
9		MORROW 9000'							9.2	XCD	18
10		TVD 9650' MD 9853'	TARGET @ 9300' TVD: 1100' FNL & 1100' FEL SEC. 32, T-19S, R-25E	GR-CAL-DLL-MSFL GR-CAL-CNL-LDT CBIL		7" 9853' 26# K-55/N-80		BHP = 3600 psi			30
11											
12											
13											
14											
15											
16											

DATE **APRIL 1995**

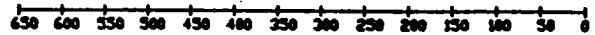
APPROVED **B.E. GOODWIN**
ENGINEER

CONOCO, INCORPORATED
SAVANNAH STATE #1
EDDY COUNTY, NEW MEXICO

VERTICAL SECTION
SCALE: 50 FEET/DIVISION



HORIZONTAL PLAN
SCALE: 50 FEET/DIVISION



SURFACE LOCATION

DIRECTION S 45.00 W

TARGET 100' RADIUS
9431' MD 9300' TVB
440'S & 440'W OF SL
622.23' - S45°W OF SL

BOTTOM HOLE LOCATION
9833' MD 9638' TVB
580.28'S & 580.28'W OF SL
820.44' - S45°W OF SL



VERTICAL SECTION PLANE: S 45.00 W

CONOCO, INCORPORATED
SAVANNAH STATE #1
EDDY COUNTY, NEW MEXICO

D.I.G., INC.

Calculated by Minimum Curvature Method
Vert Sect Plane: S 45.00 W

- DIRECTIONAL WELLPLAN -

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	TOTAL RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	CLOSURE DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY (DG/100')
7900.00	0.00	N 0.00 E	0.00	7900.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
8000.00	5.00	S 45.00 W	100.00	7999.87	3.08 S 3.08 W	4.36	4.36	S 45.00 W	5.00
8100.00	10.00	S 45.00 W	100.00	8098.99	12.31 S 12.31 W	17.41	17.41	S 45.00 W	5.00
8200.00	15.00	S 45.00 W	100.00	8196.58	27.61 S 27.61 W	39.05	39.05	S 45.00 W	5.00
8300.00	20.00	S 45.00 W	100.00	8291.93	48.87 S 48.87 W	69.11	69.11	S 45.00 W	5.00
8400.00	25.00	S 45.00 W	100.00	8384.28	75.92 S 75.92 W	107.36	107.36	S 45.00 W	5.00
END OF CURVE									
8490.90	29.54	S 45.00 W	90.90	8465.06	105.36 S 105.36 W	149.00	149.00	S 45.00 W	5.00
TARGET									
9450.63	29.54	S 45.00 W	959.74	9300.00	440.00 S 440.00 W	622.25	622.25	S 45.00 W	0.00
BOTTOM HOLE LOCATION									
9852.95	29.54	S 45.00 W	402.31	9650.00	580.28 S 580.28 W	820.64	820.64	S 45.00 W	0.00

WELL NAME: Savannah State No. 1

CEMENTING PROGRAM

SURFACE CASING STRING

LEAD 900 sxs Class C Mixed at 12.8 ppg
Additives 35:65:6 + 5 pps Kolseal + .25 pps Celloflake
TAIL 200 sxs Class C Mixed at 14.8 ppg
Additives 2 % A-7P

PRODUCTION CASING STRING

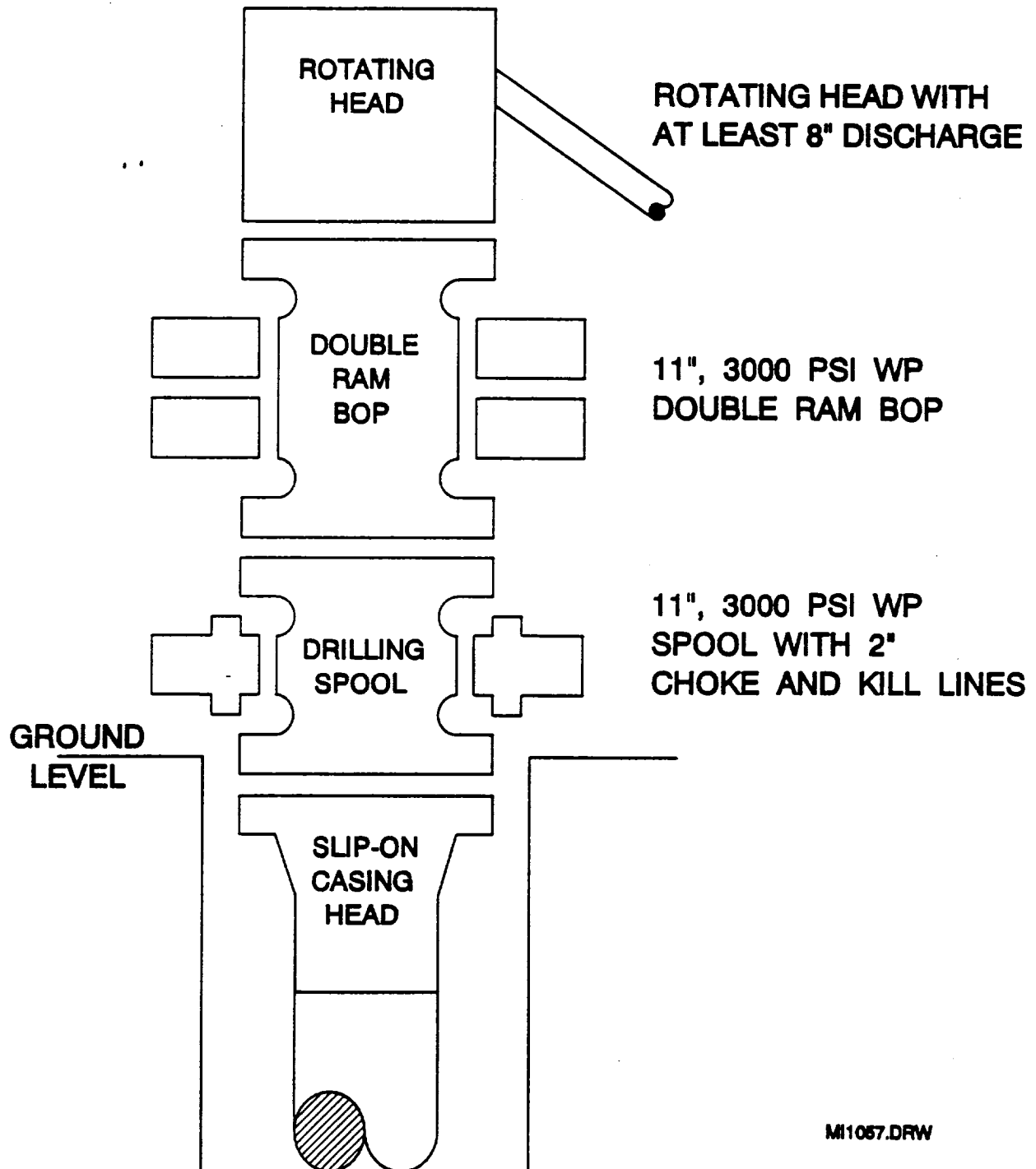
1st STAGE

LEAD 145 sxs Class C Mixed at 12.5 ppg
Additives 35:65:6 with 5 pps A-5 + 1/4 pps Celloflake
TAIL 920 sxs Class H Mixed at 15.8 ppg
Additives 1.1 FloBlock 210 + 1 % BA-5B + 2% A-9
.2 % CD-32 + .2% SMS + .3% R-3

2nd STAGE

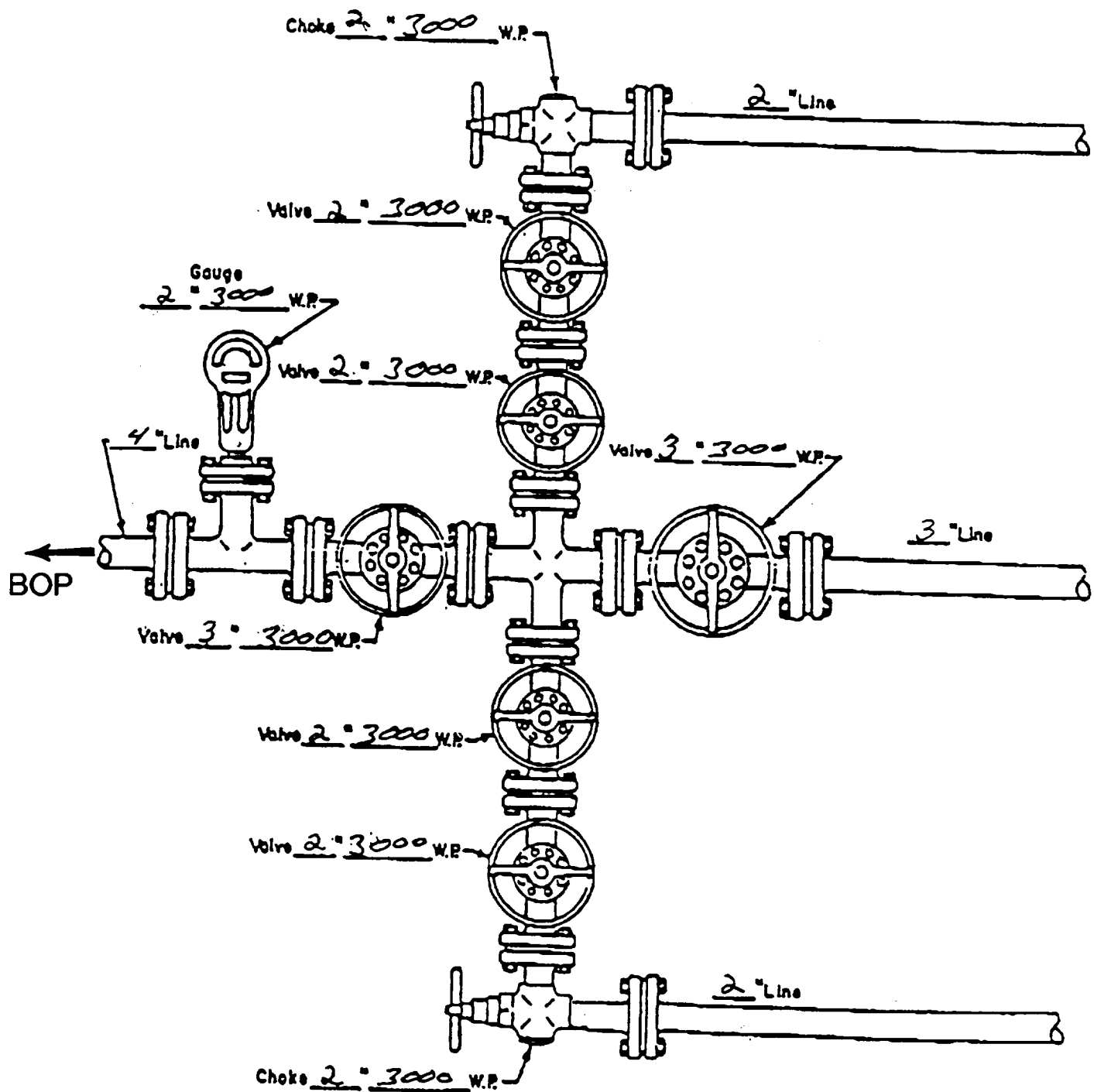
LEAD 535 sxs Class C Mixed at 11.6 ppg
Additives 3% SMS + .25 pps Celloflake
TAIL 100 sxs Class C Mixed at 14.8 ppg
Additives 1 % BAIO, .2 % SMS, 1 % A-7

BOP SPECIFICATIONS



MI1057.DRW

CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 #W.P.

- ☒ Manual
- ☐ Hydraulic