

State of New Mexico
Energy, Minerals & Natural Resources Department

Distinct I

PO Box 1980, Hobbs, NM 88241-1980

Distinct II

PO Drawer DD, Artesia, NM 88211-0719

Distinct III

1000 Rio Brazos Rd. Aztec, NM 87410

Distinct IV

PO Box 2088 Santa Fe, NM 87504-2088

Form C-101

Revised February 10, 1994

Instructions on back

Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 97504-2088

RECEIVED

MAY 20 1997

AMENDED REPORT

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

1. Operator Name and Address Mallon Oil Company P.O. Box 3256 Carlsbad, NM 88220	2. OGRID Number 013925	3. API Number 30-015-29724
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4. Property Code 21100	5. Property Name Mallon Bell State Comm.	6. Well No. 2
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7. Surface Location									
UL or lot no. J	Section 3	Township 24S	Range 26E	Lot Idn N/A	Feet From the 1330	North/South Line South	Feet From the 1980	East/West Line East	County Eddy

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

9. Proposed Pool 1 ● Carlsbad, Morrow, South Pm GAS	10. Proposed Pool 2
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11. Work Type Code N	12. Well Type Code G	13. Cable/Rotary R	14. Lease Type Code S	15. Ground Level Elevation 3329'
16. Multiple N/A	17. Proposed Depth 11,900'	18. Formation Morrow	19. Contractor Lakota	20. Spud Date May 26, 1997

21. Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	500'	500 sks	Circ to surface
12-1/4"	9-5/8"	40#	3800'	800 sks	Circ to surface
7-7/8"	5-1/2"	17# and 20#	11,900'	1145 sks	3600'

22. 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.

See Attached.

NSL-3828

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature Duane C. Winkler	Printed Name Duane C. Winkler	Approved by: District Supervisor	BGA
Title Operations Manager	Date May 19, 1997	Approval Date 7-9-97 / Exp. 7-9-98	Conditions of Approval 18 hours work on 13 3/8" casing.
Phone (505) 885-4596	Attached: 9 5/8" casing.		

MALLON OIL COMPANY

MALLON BELL STATE COMM. NO. 2
1330' FSL and 1980' FEL (NW SE) Unit J

FORM C-101 ITEM NO. 22 **Proposed Program**

1. Drill 17-1/2" hole to 500', run and set 500' of 13-3/8" x 48# H40 LTC casing. Cement with 500 sacks Class C x 2.0% CaCl₂, yield 1.34, ppg 14.80. Circulate cement to surface.
2. Drill 12-1/4" hole from 500'-3800'. Run and set 3800' of 9-5/8" x 40# K55 LTC casing. Lead cement 800 sacks 35:65 POZ (35% POZ, 65% Class C) + 6% gel + 5% salt + 0.25 lb/sk Celloseal, yield 2.04, 12.5 ppg. Tail cement 200 sacks Class C + 0.25# Celloseal + 2% CaCl₂, yield 1.33, ppg 14.8. Circulate cement to surface.
3. Drill 7-7/8" hole from 3800'-11,900'. Run and set 11,900' of 5-1/2" x 17# and 20# P110 LTC casing, DV tool at 9400'. Cementing program is as follows: 11,900'-9400' 345 sacks Super C Modified + 15# POZ A + 11# BA90 + 8# gilsonite + .44# FL-52 + .44# FL-25, yield 1.64, ppg 13.0. Open DV tool. Lead slurry 700 sacks 35:65 POZ (35% POZ, 65% Class H) + 6% gel + 3% salt + 0.4% FL-52 + 0.25 lb/sk Cello flake, yield 2.00, 12.50 ppg. Tail slurry 100 sacks Class H, yield 1.18, ppg 15.60, cement top to 3600'.

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

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name BELL STATE COM.	Well Number 2
OGR.D. No.	Operator Name MALLON OIL COMPANY	Elevation 3329

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	3	24 S	26 E		1330	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 320	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

LOT 4 38.03 AC.	LOT 3 38.35 AC.	LOT 2 38.58 AC.	LOT 1 38.80 AC.

OPERATOR CERTIFICATION

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

Duane C. Winkler
Signature

Duane C. Winkler
Printed Name

Operations Manager
Title

May 19, 1997
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.

MAY 14, 1997

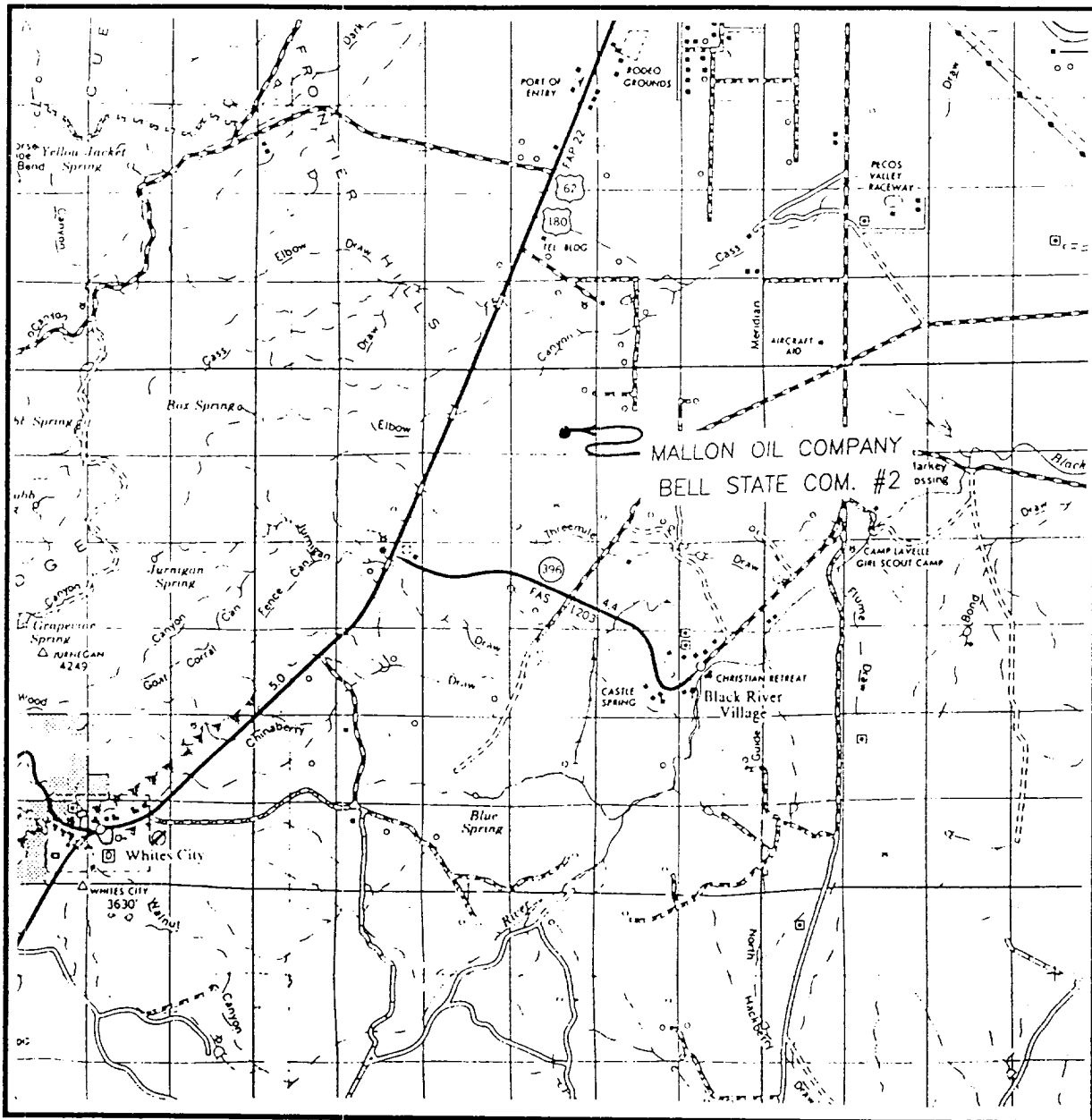
Date Surveyed JLP

Signature & Seal of Professional Surveyor

W.O. Num. 97-1-28829

Certificate No. JOHN W. WEST, 676
RONALD E. EIDSON, 3239
RONALD E. EIDSON, 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 3 TWP. 24-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1330' FSL & 1980' FEL

ELEVATION 3329'

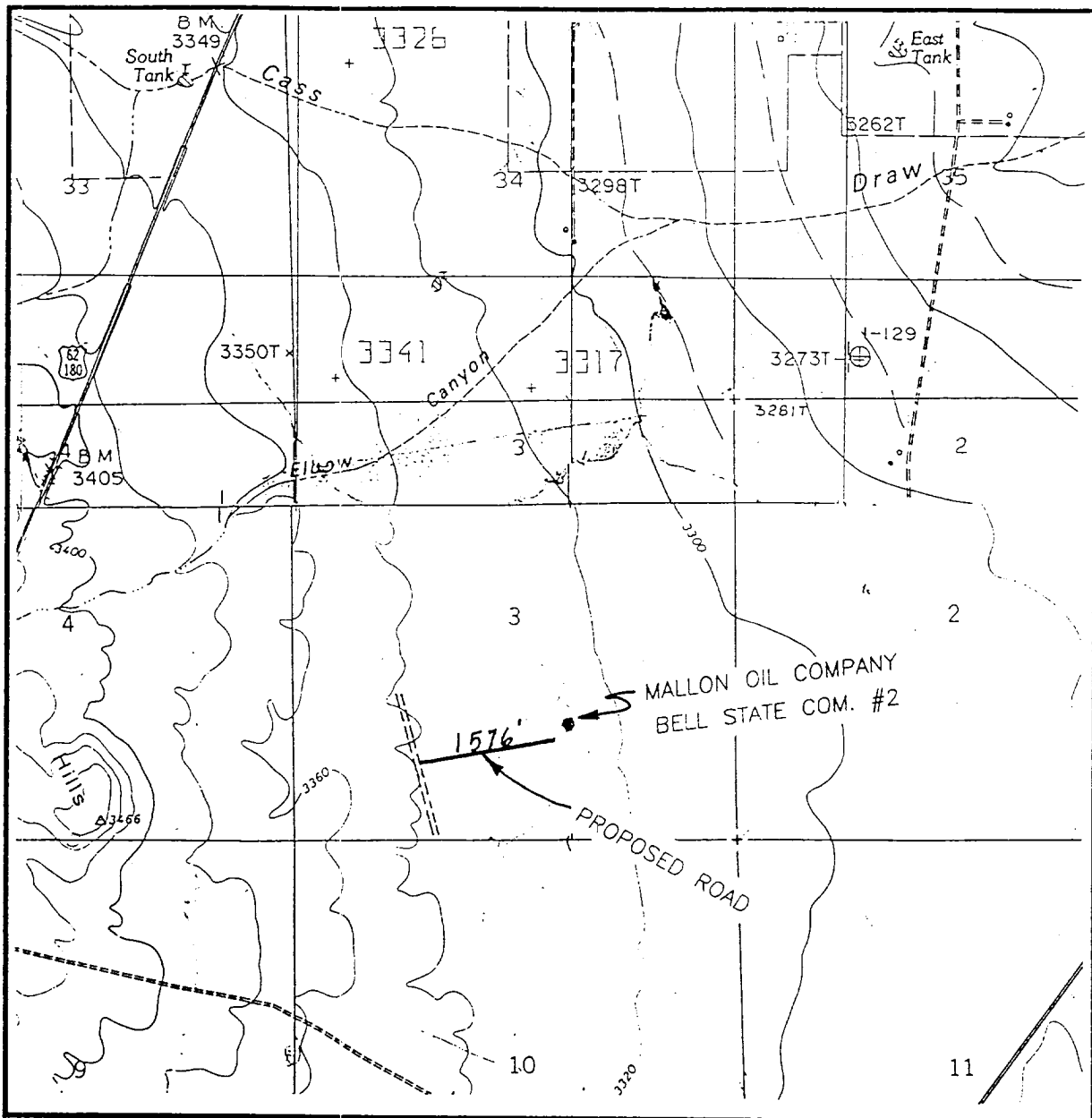
OPERATOR MALLON OIL COMPANY

LEASE BELL STATE COM.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO

(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 20'

SEC. 3 TWP. 24-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1330' FSL & 1580' FEL

ELEVATION 3329'

OPERATOR MALLON OIL COMPANY

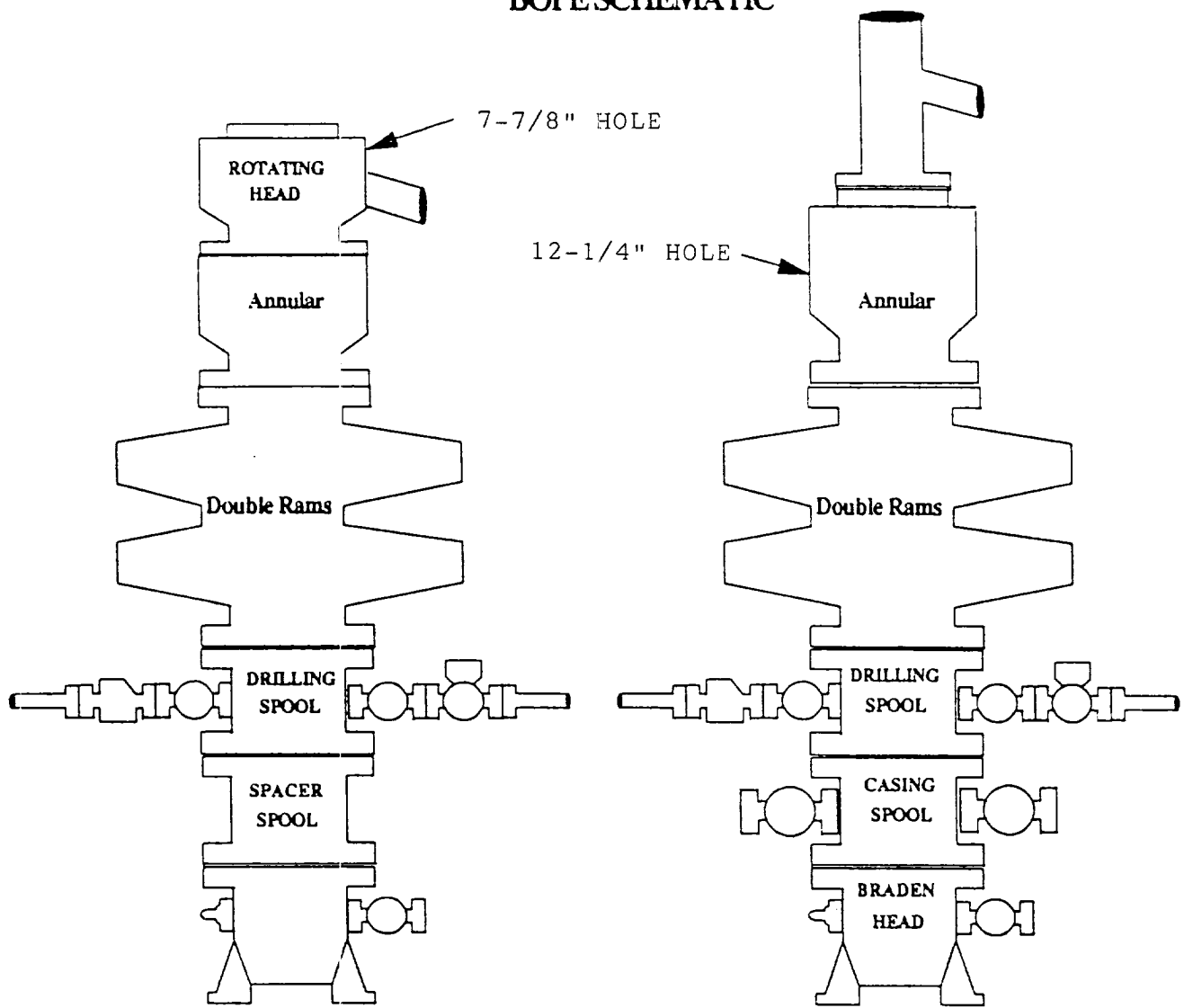
LEASE BELL STATE COM.

U.S.G.S. TOPOGRAPHIC MAP

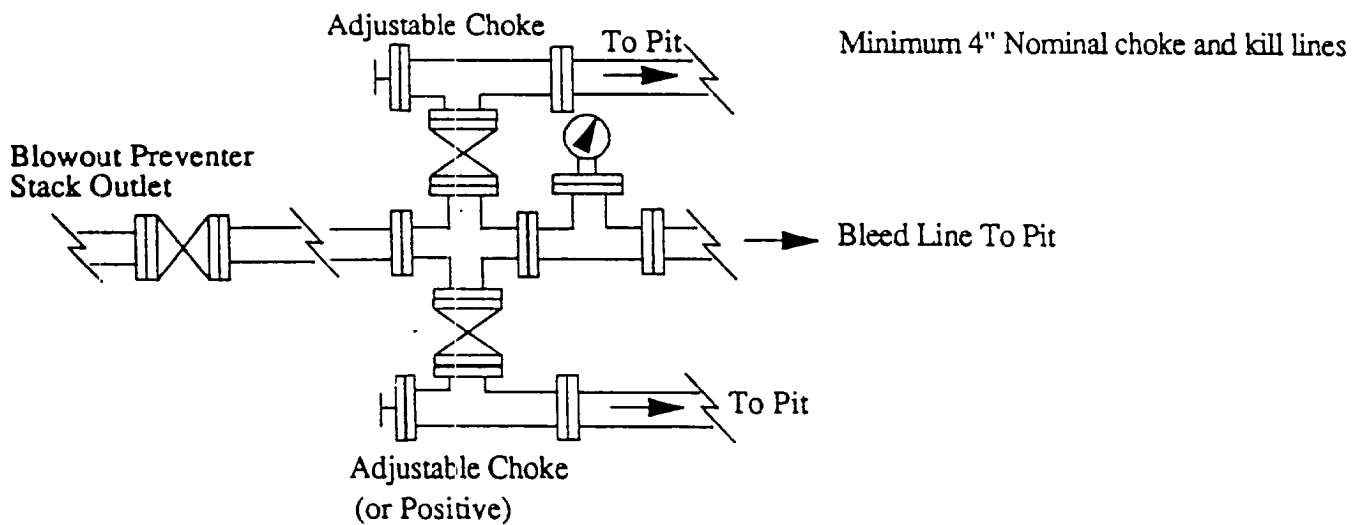
BLACK RIVER VILLAGE, & KITCHEN COVE, N.M.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

BOPE SCHEMATIC

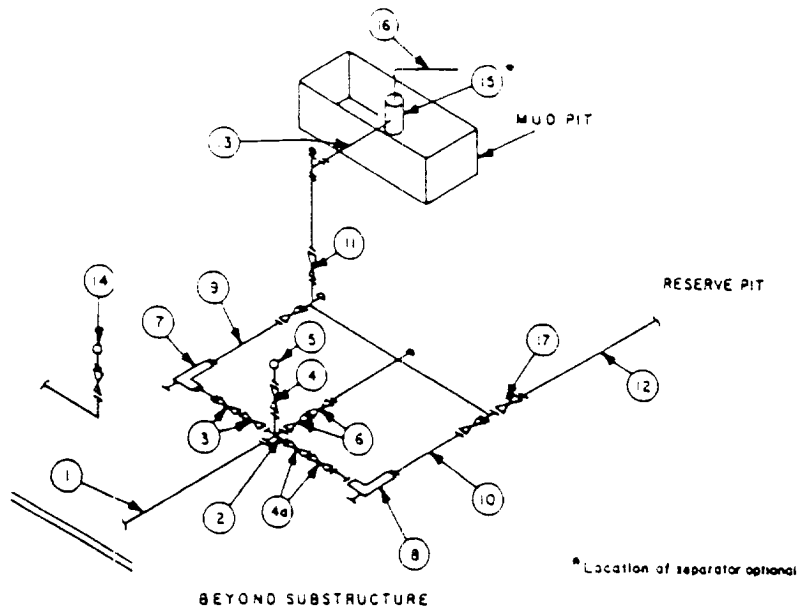


Choke Manifold Requirement (3000 psi WP)



MINIMUM CHOKES MANIFOLD
3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



MINIMUM REQUIREMENTS									
No		3,000 MWP			5,000 MWP			10,000 MWP	
		I D	NOMINAL	RATING	I D	NOMINAL	RATING	I D	NOMINAL
1	Line from drilling spool		3"	3,000		3"	5,000	3"	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000		
	Cross 3"x3"x3"x3"								10,000
3	Valves(1) Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"	10,000
4	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"	10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"	10,000
5	Pressure Gauge			3,000			5,000		10,000
6	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"	10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"	10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"	10,000
9	Line		3"	3,000		3"	5,000	3"	10,000
10	Line		2"	3,000		2"	5,000	3"	10,000
11	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"	10,000
12	Lines		3"	1,000		3"	1,000	3"	2,000
13	Lines		3"	1,000		3"	1,000	3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000		10,000
15	Gas Separator		2'x5'			2'x5'		2'x5'	
16	Line		4"	1,000		4"	1,000	4"	2,000
17	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"	10,000

(1) Only one required in Class 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull elbows.

Attachment to Exhibit #1
NOTES REGARDING THE BLOWOUT PREVENTERS

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum ID equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 3000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi WP minimum.
6. All choke and fill lines to be securely anchored, especially ends of choke stem.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on kelly.
9. Extension wrenches and hand wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.