District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

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

[1] Operator Name and Address	[2] OGRID Number
Conoco Inc., 10 Desta Drive, Suite 649W, Midland, TX 79705	005073
	[3] API Number 30-025-34929

[4] Property Code	[5] Property Name	[6] Well No.
25333	State B-19	4

[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
A	19	18S	37E		985	North	660	East	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

[9] Proposed Pool 1	[10] Proposed Pool 2
~~Abo Wildcat~~ GOODWIN; ABO	

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
N	O	R	S	3741'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
No	8250'	Abo		3/1/00

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	M-50, 8-5/8"	23#	1650'	795	Surface
7-7/8"	J-55, 5-1/2"	17#	7950'	1310	Surface

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.

1. Well Location and Acreage Dedication Plat (C-102)
2. Proposed Well Plan Outline
3. Cementing Program
4. BOP/Choke Diagram

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Jo Ann Johnson

Printed name: Jo Ann Johnson

Title: Sr. Property Analyst

Date: 2/9/00 Phone: 915-686-5515

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR

Title:

Approval Date: FEB 14 2000 Expiration Date:

Conditions of Approval:

Attached ☐

DISTRICT I
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DISTRICT II
811 South First, Artesia, NM 88210

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

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2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-34929	—	Abo Wildcat

Property Code	Property Name	Well Number
25333	STATE "B-19"	4

OGRID No.	Operator Name	Elevation
005073	CONOCO INC.	3741'

Surface Location

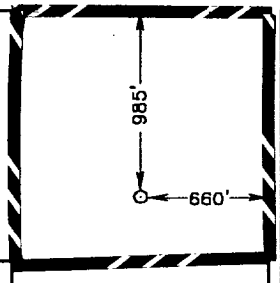
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	18 S	37 E		985	NORTH	660	EAST	LEA

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



LAT - N 32°44'15.6"
LONG - W 103°17'02.1"

OPERATOR CERTIFICATION

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

Jo Ann Johnson
Signature

Jo Ann Johnson
Printed Name

Sr. Property Analyst
Title

February 9, 2000
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 supervison, and that the same is true and correct to the best of my belief.

January 28, 2000
Date Surveyed

Signature & Seal of Professional Surveyor

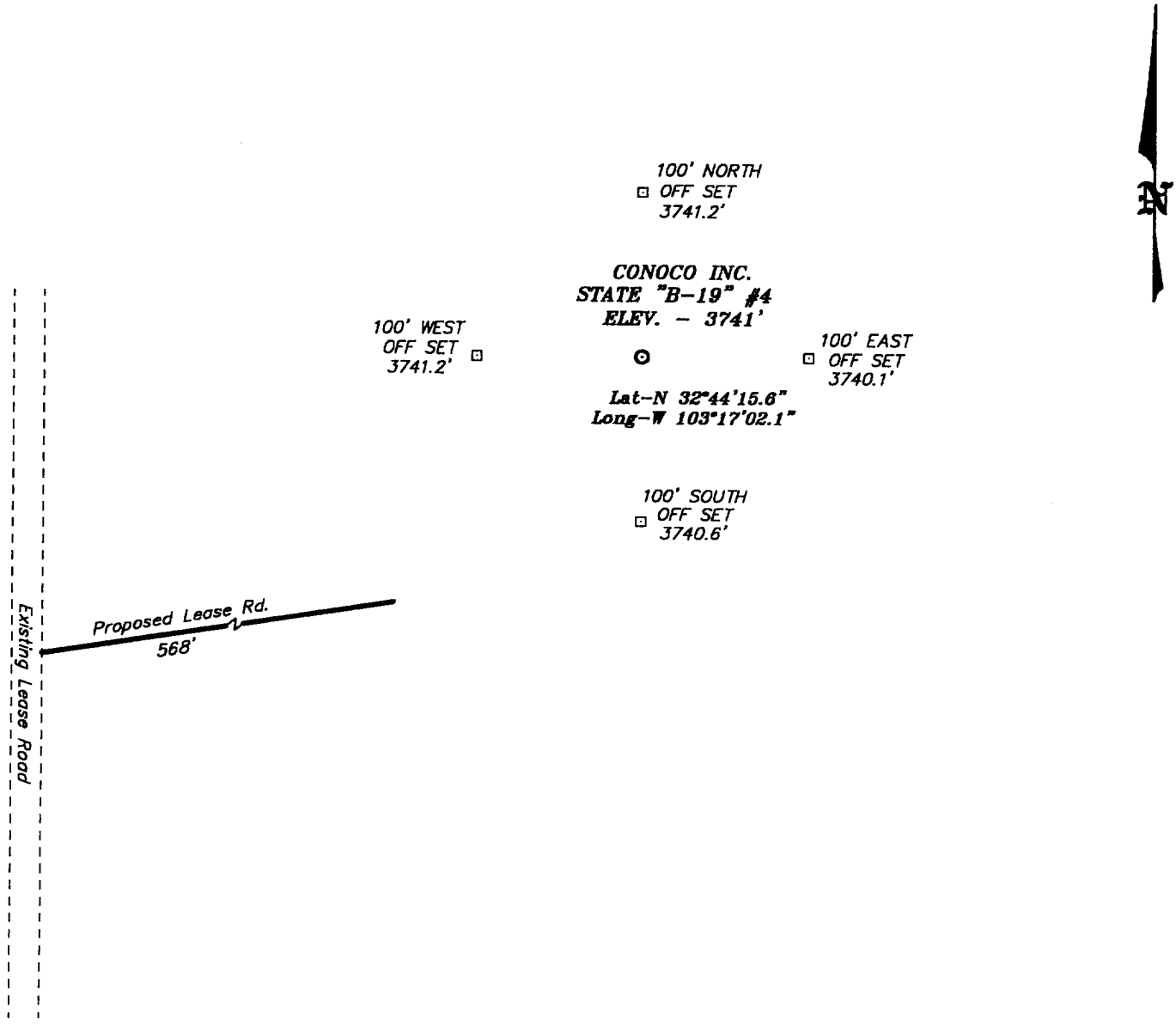
GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

W.O. No. 0046A

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

SECTION 19, TOWNSHIP 18 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, **NEW MEXICO.**



100 0 100 200 FEET

SCALE: 1" = 100'

DIRECTIONS TO WELL LOCATION:

FROM JUNCTION US 62/180 AND CO. RD. 41, GO NORTH 1.5 MILE THROUGH GATE; THENCE EAST 3900 FEET; THENCE NORTH 1.25 MILE TO A PROPOSED LEASE ROAD WHICH LIES 568 FEET FROM THE PROPOSED WELL LOCATION.

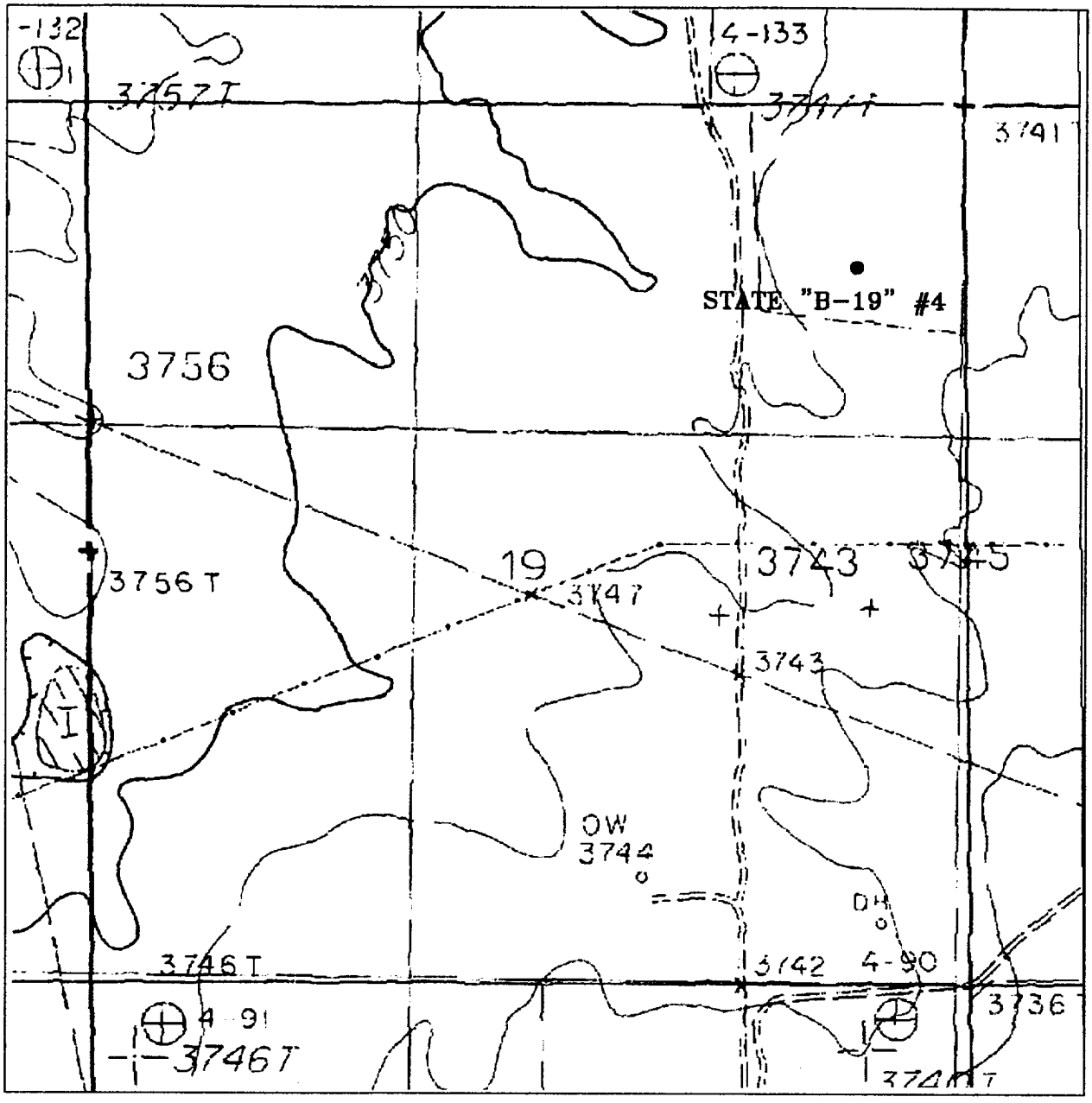
Conoco Inc.

REF: STATE "B-19" No. 4 / Well Pad Topo

THE STATE "B-19" No. 4 LOCATED 985' FROM THE NORTH LINE AND 660' FROM THE EAST LINE OF SECTION 19, TOWNSHIP 18 SOUTH, RANGE 37 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 0046	Drawn By: K. GOAD		
Date: 01-31-2000	Disk: KJG #122 - 0046A.DWG	Survey Date: 01-28-2000	Sheet 1 of 1 Sheets



STATE "B-19" #4
Located at 985' FNL and 660' FEL
Section 19, Township 18 South, Range 37 East,
N.M.P.M., Lea County, New Mexico.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number:	0046AA - KJG #122
Survey Date:	01-28-2000
Scale:	1" = 1000'
Date:	01-31-2000

CONOCO INC.

PROPOSED WELL PLAN OUTLINE

WELL NAME: State 8-19 No. 4
LOCATION: 660' FEL & 985' FNL Sec 19 -T18S-R37E

Ground Level : 3,743'
Kelly Bushing:

Depth MD	FORMATION TOPS	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING PROGRAM	FRAC GRAD	FORM. PRES. GRAD.	Mud Weight & Type	Days
0		Possible Hole Enlargement & Sloughing		12-1/4"			Less than 8.3	8.4 - 9.5 Fresh	
1000									
	Top Salt @ 1,644'				8-5/8", 23#, M-50 ST&C @ 0'-1,650' Circulate Cement			10 Brine	3
		Washouts in Salt Section		7-7/8"					
2000							Less than 8.4		
	Base Salt @ 2,705'		H2S Monitor on @ 2,700' Mud Loggers F/ 2,800' - TD						
	Yates @ 2,859'								
3000	7 Rivers @ 3,168'								
	Queen @ 3,790'								
4000	Grayburg @ 4,189'								7
		Lost Returns in San Andres							
	San Andres @ 4,511'								
5000									
	Glorietta @ 5,965'	Possible differential sticking thru Glorietta & Paddock							
6000	Blinebry Mkr @ 6,344'								
7000	Tubb @ 7,274'								
	Drinkard @ 7,274'								
	Abo @ 7,452'		First Log Run: GR-CAL-DLL-MLL-Sonic FDC-CNL-PE : TD to 2,800' Pull GR-CNL-Cal to Surf						
			Second Log Run: FMI imaging log		5-1/2", 17.0#, J-55 LT&C f/0'-7,950' Circulate Cement			10 ppg Starch Gel	20
	TD @ 7,950'								
8000									

Note:

DATE: 02-Feb-00

Bruce Wiley, Geologist

APPROVED

Yong Cho, Drilling Engineer

Jim Hubbard, Reservoir Engineer

Proposal No: 180253009A

Conoco
State B-19 No. 4

Sec. 19-T18S-R37E
Lea County, New Mexico
January 25, 2000

Well Recommendation

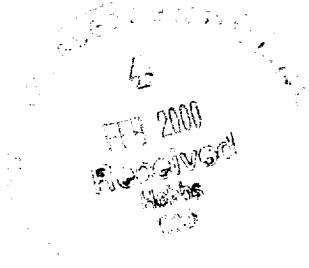
Prepared for:
Mr. Yong Cho
Drilling Engineer

Prepared by:
Rocky Chambers
Region Engineer
Bus Phone: 915/683-2781
Mobile: 915/557-1239
Pager: 915/498-1605

POWERVISION℠

Service Point:
Hobbs
Bus Phone: (505) 392-5556
Fax: (505) 392-7307

Service Representatives:
Wayne Davis
Account Manager
Bus Phone: (915) 683-2781



Operator Name: Conoco
Well Name: State B-19 No. 4
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000

Proposal No: 180253009A

JOB AT A GLANCE

Depth (TVD)	1,650 ft
Depth (MD)	1,650 ft
Hole Size	12.25 in
Casing Size/Weight :	8 5/8 in, 24 lbs/ft
Pump Via	Casing 8 5/8" O.D. (8.097" .I.D) 24 #
Total Mix Water Required	7,210 gals
Pre-flush	
Mud Clean I	1,500 gals
Density	8.4 ppg
Lead Slurry	
LEAD SLURRY	581 sacks
Density	12.7 ppg
Yield	1.88 cf/sack
Tail Slurry	
TAIL SLURRY	214 sacks
Density	14.8 ppg
Yield	1.34 cf/sack
Displacement	
Water	103 bbls
Density	8.4 ppg

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.250 HOLE	1,650	1,650

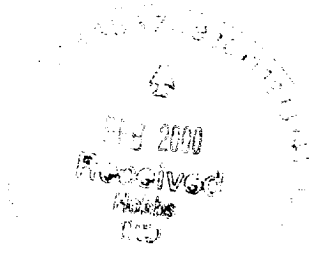
SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
8.625	8.097	24	1,650	1,650

Float Collar set @	1,610 ft
Mud Density	8.40 ppg
Est. Static Temp.	90 ° F
Est. Circ. Temp.	85 ° F

VOLUME CALCULATIONS

1,320 ft	x	0.4127 cf/ft	with	100 % excess	=	1089.8 cf
330 ft	x	0.4127 cf/ft	with	101 % excess	=	273.5 cf
40 ft	x	0.3576 cf/ft	with	0 % excess	=	14.3 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	1377.6 cf
					=	246 bbls



FLUID SPECIFICATIONS

Pre-flush 1,500.0 gals Mud Clean I @ 8.4 ppg

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1090	/	1.88	= 581 sacks (35:65) Poz (Fly Ash):Class C Cement + 2% bwoc Calcium Chloride + 0.25% bwoc Cello Flake + 0.005 gps FP-6L + 6% bwoc Bentonite + 96.5% Fresh Water
Tail Slurry	288	/	1.34	= 214 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.005 gps FP-6L + 56.3% Fresh Water
Displacement				102.5 bbls Water + 56.3% Fresh Water @ 8.4 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.70	14.80
Slurry Yield (cf/sack)	1.88	1.34
Amount of Mix Water (gps)	10.07	6.35
Amount of Mix Fluid (gps)	10.08	6.35
Estimated Pumping Time - 70 BC (HH:MM)	5:00	2:20

JOB AT A GLANCE

Depth (TVD)	7,950 ft
Depth (MD)	7,950 ft
Hole Size	7.875 in
Casing Size/Weight :	5 1/2 in, 17 lbs/ft
Pump Via	Casing 5 1/2" O.D. (4.892" .I.D) 17 #
Total Mix Water Required	11,604 gals
Pre-flush	
Mud Clean I	1,500 gals
Density	8.4 ppg
Lead Slurry	
LEAD SLURRY	912 sacks
Density	12.7 ppg
Yield	1.85 cf/sack
Tail Slurry	
TAIL SLURRY	398 sacks
Density	14.8 ppg
Yield	1.34 cf/sack
Displacement	
Water	184 bbls
Density	8.4 ppg

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	1,650	1,650
7.875 HOLE	7,950	7,950

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.892	17	7,950	7,950

Float Collar set @	7,910 ft
Mud Density	10.00 ppg
Mud Type	Water Based
Est. Static Temp.	128 ° F
Est. Circ. Temp.	121 ° F

VOLUME CALCULATIONS

1,650 ft	x	0.1926 cf/ft	with	0 % excess	=	317.8 cf
3,950 ft	x	0.1733 cf/ft	with	100 % excess	=	1368.7 cf
2,350 ft	x	0.1733 cf/ft	with	30 % excess	=	530.0 cf
40 ft	x	0.1305 cf/ft	with	0 % excess	=	5.2 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	2221.7 cf
					=	396 bbls

FLUID SPECIFICATIONS

Pre-flush — 1,500.0 gals Mud Clean I @ 8.4 ppg

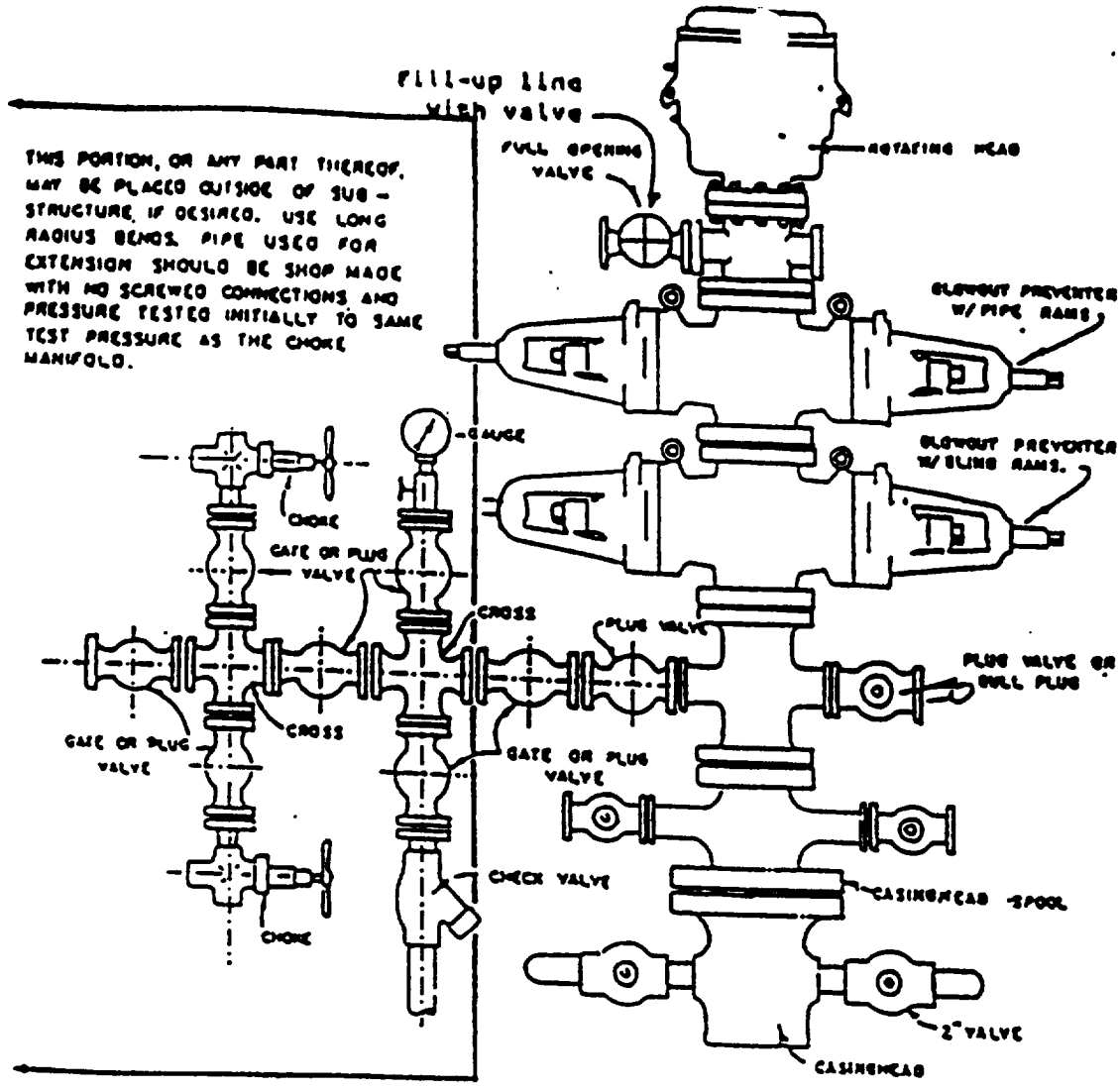
FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1686	/	1.85	= 912 sacks (35:65) Poz (Fly Ash):Class C Cement + 0.25% bwoc Cello Flake + 0.005 gps FP-6L + 6% bwoc Bentonite + 95.7% Fresh Water
Tail Slurry	535	/	1.34	= 398 sacks Class C Cement + 1% bwoc BA-58 + 0.9% bwoc FL-50 + 0.5% bwoc CD-32 + 0.005 gps FP-6L + 0.2% bwoc Sodium Metasilicate + 55.7% Fresh Water
Displacement				183.9 bbls Water + 55.7% Fresh Water @ 8.4 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.70	14.80
Slurry Yield (cf/sack)	1.85	1.34
Amount of Mix Water (gps)	9.98	6.28
Amount of Mix Fluid (gps)	9.99	6.29
Estimated Pumping Time - 70 BC (HH:MM)	2:49	1:49
Free Water (mls) @ ° F @ 90 ° angle	0.9	

RHEOLOGIES

FLUID		TEMP	600	300	200	100	6	3
Lead Slurry	@	° F	153	141	136	130	50	38
Tail Slurry	@	80 ° F	150	102	85	68	43	35

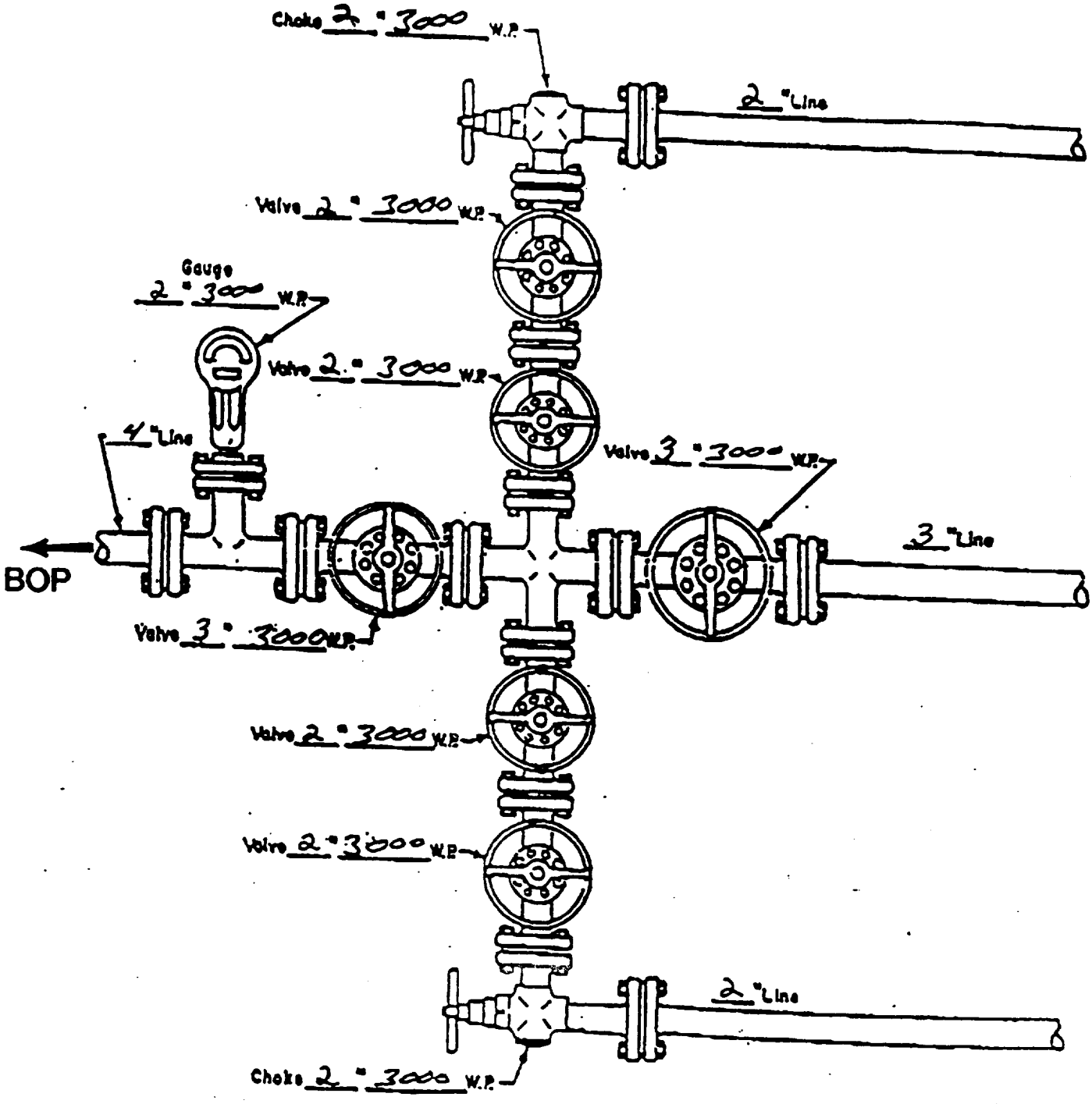


BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached BOP diagram details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

1. Two rams with one blind and one pipe ram.
2. Kill line (2 inch maximum).
3. One kill line valve.
4. One choke line valve.
5. Two chokes (reference diagram No. 1).
6. Upper kelly cock valve with handle.
7. Safety valve and subs to fit all drill strings in use.
8. Two-inch minimum choke line.
9. Pressure gauge on choke manifold.
10. Fill-up line above the upper most preventor.
11. Rotating head.

CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 #W.P

☒ Manual
☐ Hydraulic