

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 Conoco Inc., 10 Desta Drive, Suite 649W, Midland, TX 79705		² OGRID Number 005073
		³ API Number 30-025-34928
⁴ Property Code 25333	⁵ Property Name State B-19	⁶ Well No. 3

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
J	19	18S	37E		2300	South	1660	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

Abo ~~Wildcat~~

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3742'
¹⁶ Multiple No	¹⁷ Proposed Depth 8250'	¹⁸ Formation Abo	¹⁹ Contractor	²⁰ Spud Date 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#	1600'	771	Surface
7-7/8"	J-55, 5-1/2"	17#	7950'	1314	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

Fee: 10 Copies 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.		OIL CONSERVATION DIVISION	
Signature: <i>Jo Ann Johnson</i>		Approved by: ORIGINAL SIGNATURE OF CHIEF WILLIAM DISTRICT I SUPERVISOR	
Printed name: Jo Ann Johnson		Title:	
Title: Sr. Property Analyst		Approval Date: FEB 14 2000	Expiration Date:
Date: 2/9/00	Phone: 915-686-5515	Conditions of Approval: Attached <input type="checkbox"/>	

DISTRICT I
1000 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brases Rd., Artesia, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34928	Pool Code 28370	Pool Name Goodwin; Abo Wildeat
Property Code 25333	Property Name STATE "B-19"	Well Number 3
OGRID No. 05073	Operator Name CONOCO INC.	Elevation 3742'

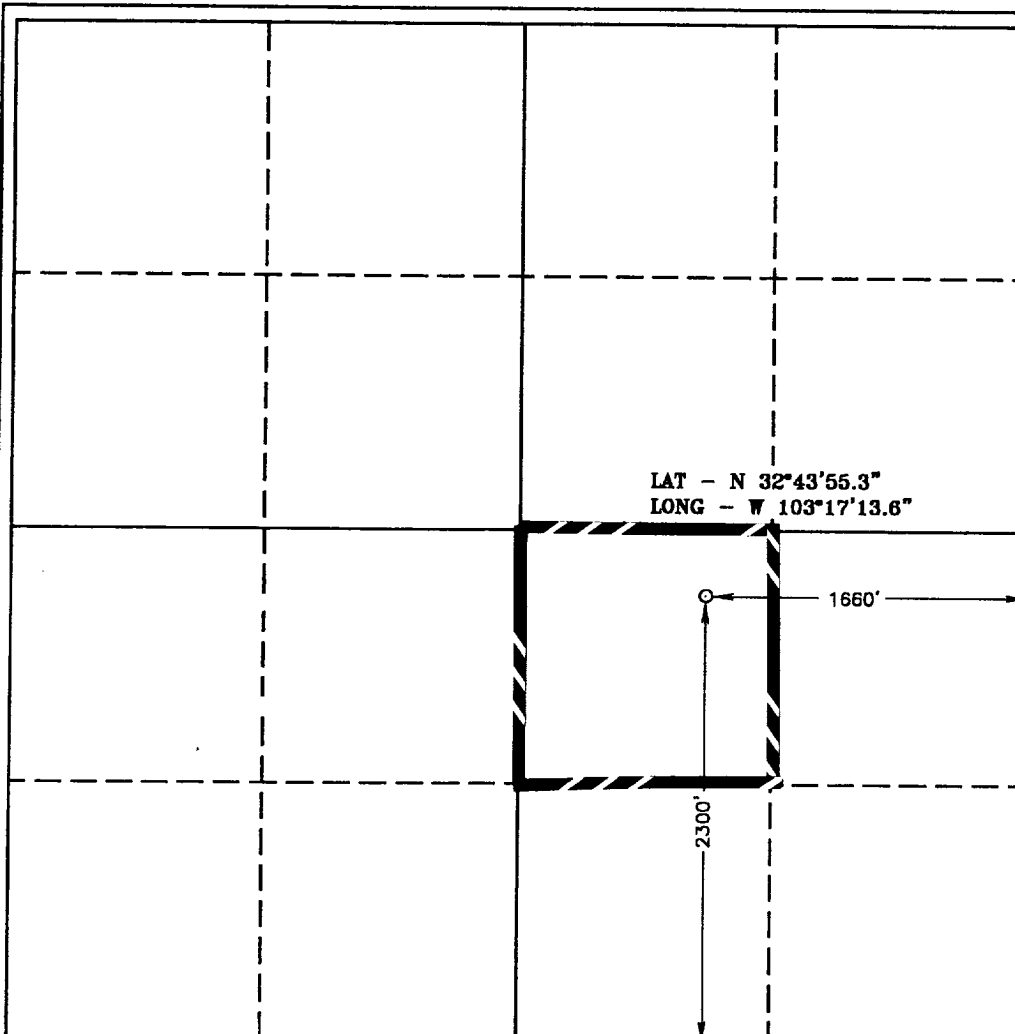
Surface Location

UL or lot No. J	Section 19	Township 18 S	Range 37 E	Lot Idn	Feet from the 2300	North/South line SOUTH	Feet from the 1660	East/West line EAST	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	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.

Jo Ann Johnson
Signature
Jo Ann Johnson
Printed Name
Sr. Property Analyst
Title
February 9, 2000
Date

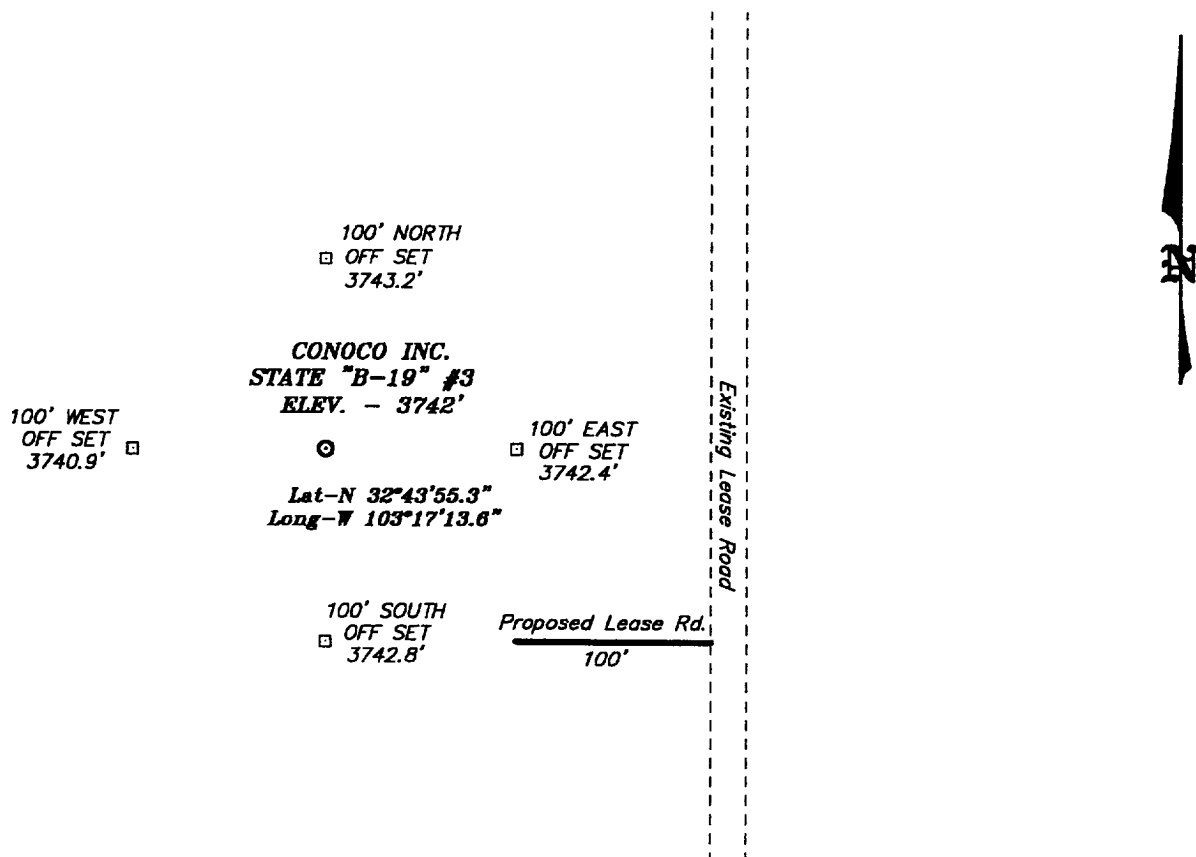
SURVEYOR CERTIFICATION

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
supervision and that the same is true and
correct to the best of my belief.

January 28, 2000

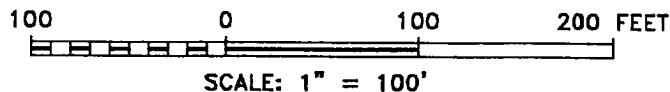
Date Surveyed
Signature & Seal of
Professional Surveyor
GARY L. JONES
7977
Certificate No. 00434
BASIN SURVEYS

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



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 4900 FEET TO A POINT WHICH
LIES 100 FEET EAST OF PROPOSED WELL LOCATION.



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

W.O. Number: 0045 Drawn By: **K. GOAD**

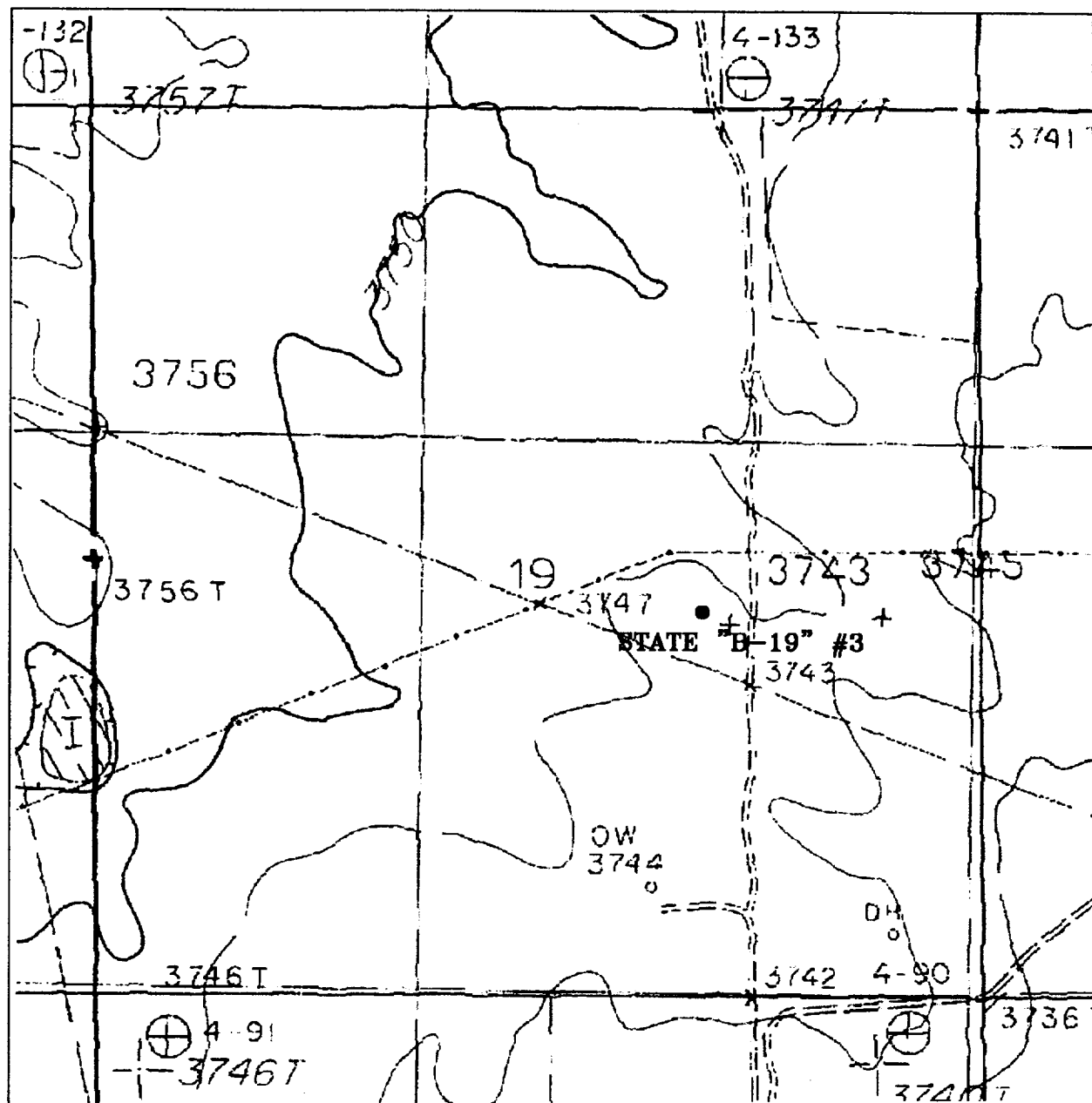
Date: 01-31-2000 Disk: KJG #122 - 0045A.DWG

Conoco Inc.

REF: STATE "B-19" No. 3 / Well Pad Topo

THE STATE "B-19" No. 3 LOCATED 2300' FROM THE
SOUTH LINE AND 1660' FROM THE EAST LINE OF
SECTION 19, TOWNSHIP 18 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 01-28-2000 Sheet 1 of 1 Sheets



STATE "B-19" #3

Located at 2300' FSL and 1660' 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: 0045AA - KJG #122

Survey Date: 01-28-2000

Scale: 1" = 1000'

Date: 01-31-2000

CONOCO INC.

PROPOSED WELL PLAN OUTLINE

WELL NAME LOCATION State B-19 No. 3 1,660' FEL & 2,300' FSL 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 @ 1,521'				8-5/8", 23#, M-50 ST&C @ 0'-1,600'				3
		Washouts in Salt Section		7-7/8"	Circulate Cement			10 Brine	
2000							Less than 8.4		
	Base Salt @ 2,582'								
	Yates @ 2,736'		H2S Monitor on @ 2,600'						
			Mud Loggers F/ 2,800' - TD						
3000	7 Rivers @ 3,045'								
	Queen @ 3,667'								
4000	Grayburg @ 4,066'								
	San Andres @ 4,388'	Lost Returns in San Andres							7
5000									
	Glorietta @ 5,842'	Possible differential sticking thru Glorietta & Paddock							
6000	Blinbry Mkr @ 6,221'								
7000	Tubb @ 7,101'								
	Drinkard @ 7,151'								
	Abo @ 7,342'		First Log Run: GR-CAL-DLL-MLL-Sonic FDC-CNL-PE : TD to 2,800' Pull GR-CNL-Cal to Surf						
	TD @ 7,950'		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
8000									

Note:

DATE 02-Feb-00

Bruce Wiley, Geologist

APPROVED

Yong Cho, Drilling Engineer

Jim Hubbard, Reservoir Engineer



Proposal No: 180253010A

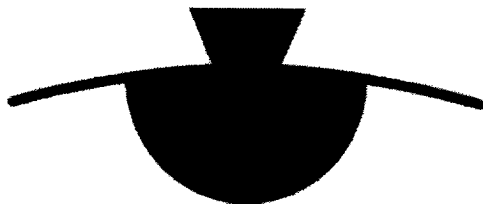
Conoco
State B-19 No. 3

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



POWERVISIONSM

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. 3
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253010A

JOB AT A GLANCE

Depth (TVD)	1,600 ft
Depth (MD)	1,600 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	6,994 gals
Pre-flush	
Mud Clean I	1,500 gals
Density	8.4 ppg
Lead Slurry	
LEAD SLURRY	564 sacks
Density	12.7 ppg
Yield	1.88 cf/sack
Tail Slurry	
TAIL SLURRY	207 sacks
Density	14.8 ppg
Yield	1.34 cf/sack
Displacement	
Water	99 bbls
Density	8.4 ppg

Operator Name: Conoco
Well Name: State B-19 No. 3
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253010A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.250 HOLE	1,600	1,600

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
8.625	8.097	24	1,600	1,600

Float Collar set @ 1,560 ft
 Mud Density 8.40 ppg
 Est. Static Temp. 90 ° F
 Est. Circ. Temp. 86 ° F

VOLUME CALCULATIONS

1,280 ft	x	0.4127 cf/ft	with	100 % excess	=	1056.8 cf
320 ft	x	0.4127 cf/ft	with	100 % excess	=	264.1 cf
40 ft	x	0.3576 cf/ft	with	0 % excess	=	14.3 cf (inside pipe)
TOTAL SLURRY VOLUME					=	1335.3 cf
					=	238 bbls

Operator Name: Conoco
Well Name: State B-19 No. 3
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253010A

FLUID SPECIFICATIONS

Pre-flush				1,500.0 gals Mud Clean I @ 8.4 ppg
<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>	
Lead Slurry	1057	/ 1.88	= 564 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	278	/ 1.34	= 207 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.005 gps FP-6L + 56.3% Fresh Water	
Displacement				99.4 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

Operator Name: Conoco
Well Name: State B-19 No. 3
Job Description: 5-1/2" Production Casing
Date: January 25, 2000



Proposal No: 180253010A

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	11,644 gals
Pre-flush	
Mud Clean I	1,500 gals
Density	8.4 ppg
Lead Slurry	
LEAD SLURRY	916 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

Operator Name: Conoco
Well Name: State B-19 No. 3
Job Description: 5-1/2" Production Casing
Date: January 25, 2000



Proposal No: 180253010A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	1,600	1,600
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

1,600 ft	x	0.1926 cf/ft	with	0 % excess	=	308.2 cf
4,000 ft	x	0.1733 cf/ft	with	100 % excess	=	1386.0 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					=	2229.4 cf
					=	397 bbls

Operator Name: Conoco
Well Name: State B-19 No. 3
Job Description: 5-1/2" Production Casing
Date: January 25, 2000



Proposal No: 180253010A

FLUID SPECIFICATIONS

Pre-flush

1,500.0 gals Mud Clean I @ 8.4 ppg

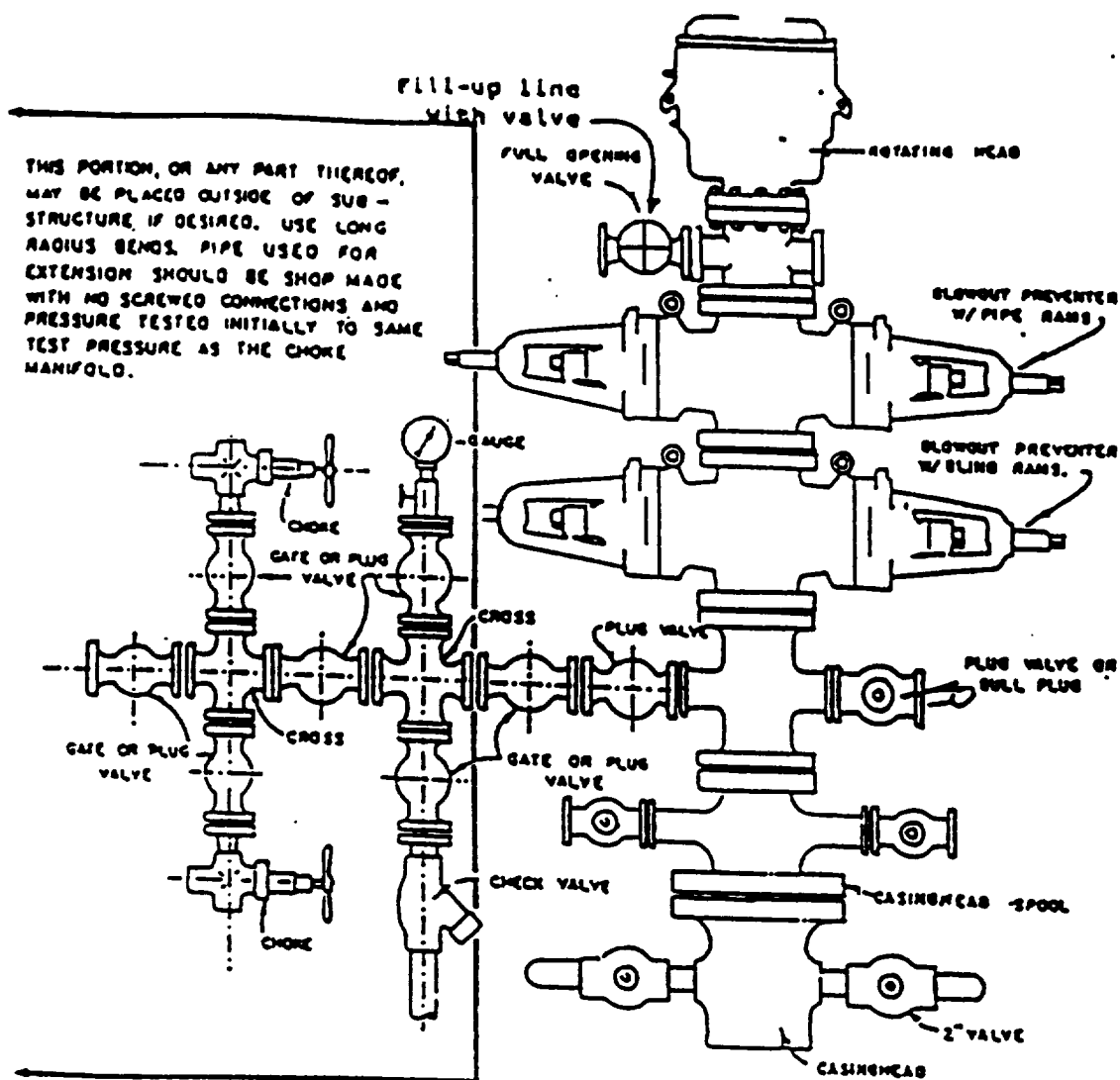
<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	1694	/ 1.85	= 916 sacks (35:65) Poz (Fly Ash):Class C Cement + 0.25% bwoc Cello Flake + 0.005 gps FP-6L + 6% bwoc Bentonite + 95.7% Fresh Water
Tail Slurry	535	/ 1.34	= 398 sacks Class C Cement + 1% bwoc 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

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

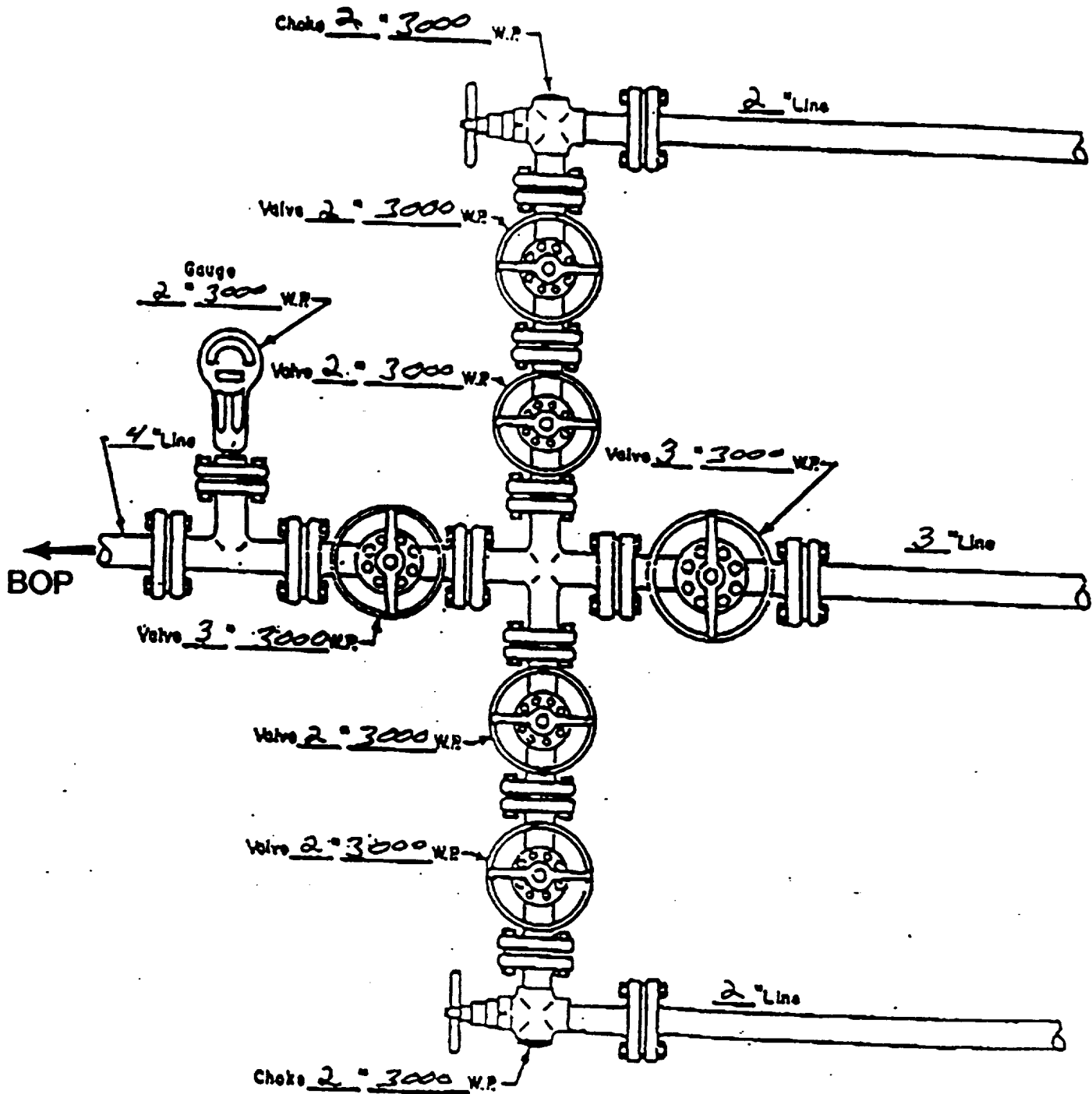


BLOWOUT PREVENTER HOOKUP

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