

CMD :
OG5SECTONGARD
INQUIRE LAND BY SECTION07/21/00 14:39:21
OGOMES -TPFI
PAGE NO: 1

Sec : 19 Twp : 18S Rng : 37E Section Type : NORMAL

1 39.67 SDSV BH1535 0000 CONOCO INC 12/22/42	C 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	B 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	A 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42 P
2 39.75 SDSV BH1535 0000 CONOCO INC 12/22/42	F 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	G 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	H 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42 P

PF01 HELP
PF07 BKWDPF02
PF08 FWDPF03 EXIT
PF09 PRINTPF04 GoTo
PF10 SDIVPF05
PF11PF06
PF12

CMD :
OG5SECTONGARD
INQUIRE LAND BY SECTION07/21/00 14:39:26
OGOMES -TPFI
PAGE NO: 2

Sec : 19 Twp : 18S Rng : 37E Section Type : NORMAL

3 39.81 SDSV BH1535 0000 CONOCO INC 12/22/42	K 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	J 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42 P	I 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42
4 39.89 SDSV BH1535 0002 CONE ESTATE GORDO 12/22/42	N 40.00 SDSV BH1535 0002 CONE ESTATE GORDO 12/22/42	O 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42	P 40.00 SDSV BH1535 0000 CONOCO INC 12/22/42

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

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

P.O. Drawer DD, Artesia, NM 88210

DISTRICT T11
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.
30-025-34936

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
25333

7. Lease Name or Unit Agreement Name
State B-19

8. Well No.
#2

9. Pool name or Wildcat
Goodwin-Abo

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☒ Gas Well ☐ OTHER

2. Name of Operator
Conoco Inc.

3. Address of Operator
10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500

4. Well Location
Unit Letter H 2275 Feet From The North Line and 1215 Feet From The East Line
Section 19 Township 18S Range 37E NMPM Lea County

10. Elevaon (Show whether DF, RKB, RT, GR, etc.)
3742' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☒ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Sundry to P&A to just above the Bone Spring and T&A wellbore above Bone Spring.

TOP PERF - 5506

1. RU Wireline and set CIBP at 5450'. Dump 25' of cement on top.
2. Flange up 2" valve to tubing head.
3. Test CIBP to 500 psig.

Plans are to evaluate the Eumont Pool and then test in 3rd quarter, 2000 if commercial potential is a possibility based on log and offset production evaluation.

12. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kay Maddox TITLE Regulatory Agent DATE May 16, 2000
TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798

(this space for State Use)

FIELD REPRESENTATIVE II

APPROVED BY Larry W. Wink TITLE _____ DATE JUN 12 2000

CONITIONS OF APPROVAL, IF ANY

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.	30 025 34936
5. Indicate Type of Lease.	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	BH 1535
7. Lease Name or Unit Agreement Name	State B - 19
8. Well No.	2
9. Pool name or Wildcat	Abo Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> OTHER <input type="checkbox"/> Injection	
2. Name of Operator Conoco Inc.	
3. Address of Operator 10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500	
4. Well Location Unit Letter <u>H</u> <u>2275</u> Feet From The <u>North</u> Line and <u>1215</u> Feet From The <u>East</u> Line Section <u>19</u> Township <u>18S</u> Range <u>37E</u> NMPM <u>Lea</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3742' GR</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER Perforations <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4-8-00: Rigged up, tested BOP to 1500 psi, RIH w/4 3/4" bit & workstring, prep to drill out. SION.

4-9-00: Drilled out cement & DV tool, RIH & tagged up @ 7750', circulated. Spotted 240 gals 15% NEFE HCL, prep to run logs.

4-10-00: Ran GR/CCL/CBL from 6700-surface. Perforated 2 SPF from 5506-26, 5527-47, 5552-72'. Prep to acidize. SION.

4-11-00: Rigged up BJ, tested lines, treated with 2750 gals 15% HCL w/additives. Open well to frac tank. Well died. Start swab. SION.

Evaluating completion.

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

SIGNATURE Ann E. Ritchie TITLE Regulatory Agent DATE 6-9-00

TYPE OR PRINT NAME Ann E. Ritchie TELEPHONE NO. 915 684-6381

(this space for State Use)

APPROVED BY Chris Williams TITLE DISTRICT 1 SUPERVISOR DATE JUN 14 2000

CONDITIONS OF APPROVAL, IF ANY:

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2018

Santa Fe, New Mexico 87504-2088

WELL API NO.

30 025 34936

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

BH 1535

7. Lease Name or Unit Agreement Name

State B - 19

8. Well No.

2

9. Pool name or Wildcat

Abo Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil
Well ☒

Gas
Well ☐

OTHER ☐ Injection

2. Name of Operator

Conoco Inc.

3. Address of Operator

10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500

4. Well Location

Unit Letter H 2275 Feet From The North Line and 1215 Feet From The East Line

Section 19 Township 18S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3742' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

OTHER: ☐

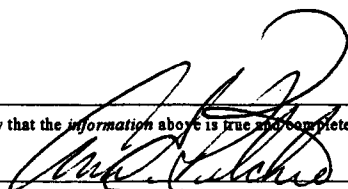
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4-6-00: Reached TD of 7950', logging open hole.

4-7-00: Ran 5 1/2", 17#, J/LTC casing to 7927'. Cemented with first stage - 200 sx 65:35 poz, 230 sx CI C and 200 sx 65:35 pox. WOC - opened stage tool with 1000 psi and circulated 65 sx of cement to pit. Second Stage - 850 sx, 65:35 POZ and 385 sx CI C w/2% CaCl2, full returns, circulated 188 sx to pit. Landed plug w/550 psi, floats held. Tested BOP & casing 1500 psi - good test. Circulated cement on both stages. Waiting on completion.

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

SIGNATURE



TITLE

Regulatory Agent

DATE

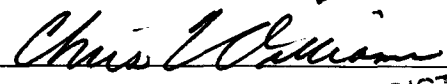
4-27-00

TYPE OR PRINT NAME Ann E. Ritchie

TELEPHONE NO. 915 684-6381

(this space for State Use)

APPROVED BY



DISTRICT SUPERVISOR

CONDITIONS OF APPROVAL, IF ANY:

MAY 03 2000

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30 025 34936

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

BH 1535

7. Lease Name or Unit Agreement Name

State B-19

8. Well No.

2

9. Pool name or Wildcat

Abo Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil

☒

Gas

Well ☐

OTHER ☐ Injection

2. Name of Operator

Conoco Inc.

3. Address of Operator

10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500

4. Well Location

Unit Letter H 2275 Feet From The North Line and 1215 Feet From The East Line

Section 19 Township 18S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3742'

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3-21-00: Spudded 12 1/4" hole, drilling.

3-23-00: Ran 1650' of 8 5/8", 24#, J-55, STC casing, cemented with lead slurry of 580 sx 65:35:6 Cl C + 2% CaCl 2T, .25#/sx celloflake, tailed with 218 sx Cl C + 2% CaCl2. Waited on cement. Tested to 1000#. Cement circulated to surface.

3-24-00: Drilling.

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

SIGNATURE

TITLE

Regulatory Agent

DATE

4-5-00

TYPE OR PRINT NAME Ann E. Ritchie

TELEPHONE NO. 915 684-6381

(this space for State Use)

APPROVED BY

DISTRICT 1 SUPERVISOR

DATE

APR 13 2000

CONDITIONS OF APPROVAL, IF ANY:

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 30-025-34936
³ Property Code 25333	⁵ Property Name State B-19	⁶ Well No. 2

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
H	19	18S	37E		2275	North	1215	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 Rotary	¹⁴ Lease Type Code State	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#	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 & 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: 2/8/00

Phone: 915-686-5515

OIL CONSERVATION DIVISION

Approved by: *Larry W. Wink*

Title: FIELD REPRESENTATIVE II *SEP 21 2000*

Approval Date: *SEP 21 2000*

Expiration Date:

Conditions of Approval:

Attached ☐

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87605

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34936	Pool Code —	Pool Name Abo Wildcat
Property Code 25333	Property Name STATE "B-19"	Well Number 2
OGED No. 005073	Operator Name CONOCO INC.	Elevation 3742'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	18 S	37 E		2275	NORTH	1215	EAST	LEA

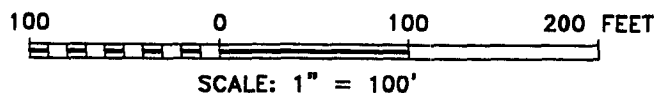
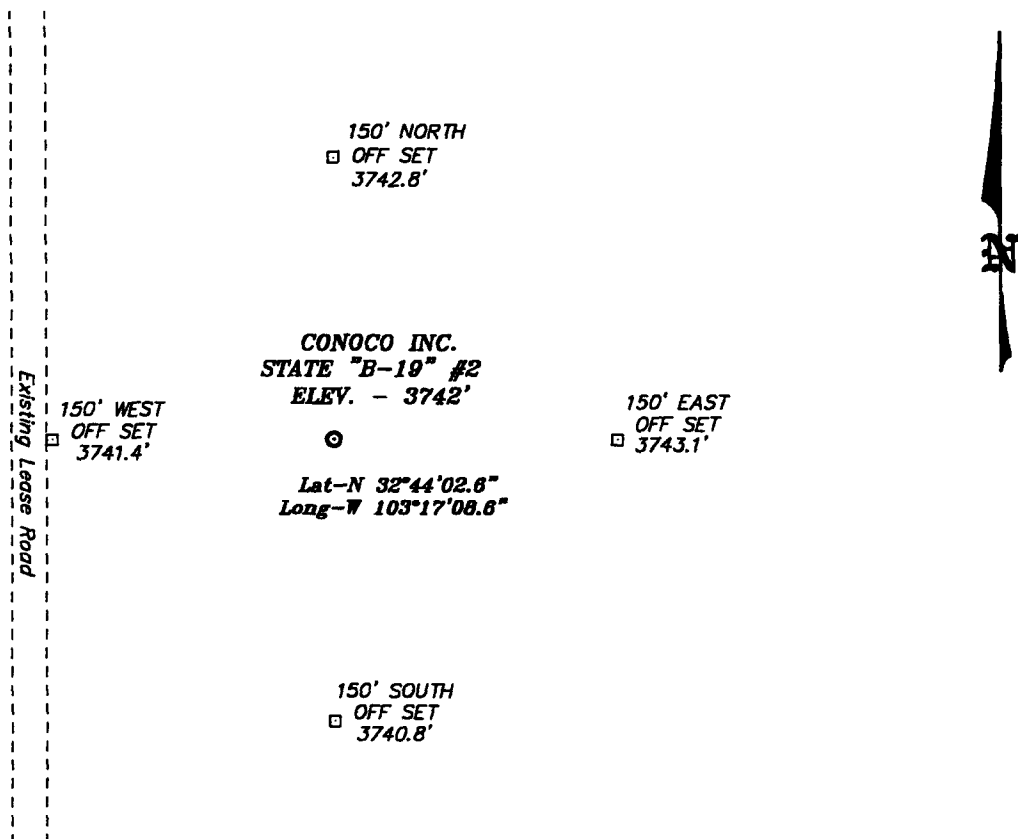
Bottom Hole Location If Different From Surface

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			NSL applied for						

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

	<div style="text-align: center;">OPERATOR CERTIFICATION</div> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p style="text-align: center;"><u>Jo Ann Johnson</u></p> <p>Signature</p> <p style="text-align: center;"><u>Jo Ann Johnson</u></p> <p>Printed Name</p> <p style="text-align: center;"><u>Sr. Property Analyst</u></p> <p>Title</p> <p style="text-align: center;"><u>2/8/00</u></p> <p>Date</p> <hr/> <div style="text-align: center;">SURVEYOR CERTIFICATION</div> <p><i>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.</i></p> <p style="text-align: center;">January 28, 2000</p> <p>Date Surveyed</p> <p style="text-align: center;"><u>GARY L JONES</u></p> <p>Signature</p> <p style="text-align: center;"><u>7977</u></p> <p>Professional Surveyor No.</p> <hr/> <p style="text-align: center;">W.O. No. 0044A</p> <p>Certificate No. <u>Gary L Jones</u> 7977</p> <p style="text-align: center;">BASIN SURVEYS</p>
--	---

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 1.0 MILE TO STAKE SET 150
FEET WEST OF PROPOSED WELL LOCATION.

Conoco Inc.

REF: STATE "B-19" No. 2 / Well Pad Topo

THE STATE "B-19" No. 2 LOCATED 2275' FROM THE
NORTH LINE AND 1215' 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: 0044

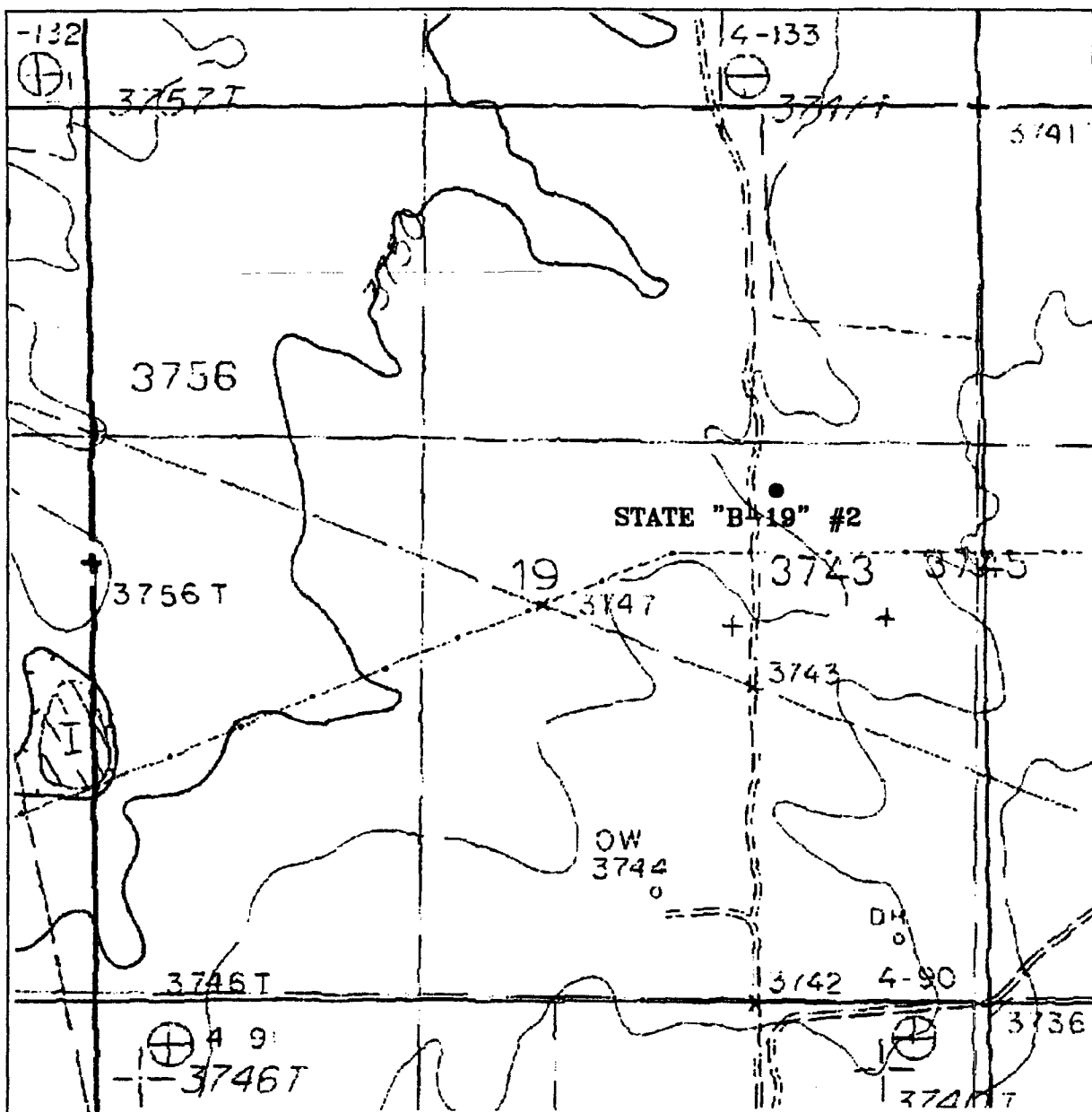
Drawn By: K. GOAD

Date: 01-31-2000

Disk: KJG #122 - 0044A.DWG

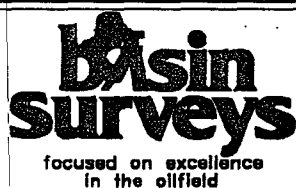
Survey Date: 01-28-2000

Sheet 1 of 1 Sheets



STATE "B-19" #2

Located at 2275' FNL and 1215' FEL
 Section 19, Township 18 South, Range 37 East,
 N.M.P.M., Lea County, New Mexico.



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

W.O. Number: 0044AA - 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. 2 1,215' FEL & 2,275' FNL Sec 19 -T18S-R37E Ground Level : 3,744' 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 @ 1,597'				8-5/8", 23#, M-50 ST&C @ 0'-1,650'				3
		Washouts in Salt Section		7-7/8"	Circulate Cement			10 Brine	
2000							Less than 8.4		
	Base Salt @ 2,658'								
	Yates @ 2,812'		H2S Monitor on @ 2,700'						
3000			Mud Loggers F/ 2,800' - TD						
	7 Rivers @ 3,121'								
	Queen @ 3,743'								
4000									7
	Grayburg @ 4,142'								
	San Andres @ 4,464'	Lost Returns in San Andres							
5000									
	Glorietta @ 5,918'	Possible differential sticking thru Glorietta & Paddock							
6000									
	Blaine Mkr @ 6,297'								
7000									
	Tubb @ 7,177'								
	Drinkard @ 7,227'								
	Abo @ 7,358'		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 1/0'-7,950'			10 ppg Starch Gel	20
8000	TD @ 7,950'				Circulate Cement				

Note:

DATE 02-Feb-00

Bruce Wiley, Geologist

APPROVED

Yong Cho, Drilling Engineer

Jim Hubbard, Reservoir Engineer



Proposal No: 180253006A

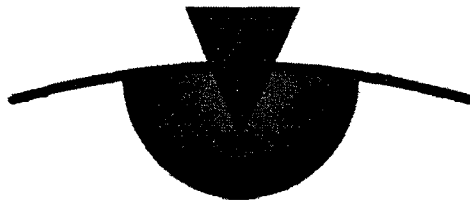
**Conoco
State B-19 No. 2**

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. 2
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253006A

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

Operator Name: Conoco
Well Name: State B-19 No. 2
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253006A

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. 86 ° 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

Operator Name: Conoco
Well Name: State B-19 No. 2
Job Description: 8 5/8" Surface Casing
Date: January 25, 2000



Proposal No: 180253006A

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

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



Proposal No: 180253006A

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

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



Proposal No: 180253006A

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

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



Proposal No: 180253006A

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	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

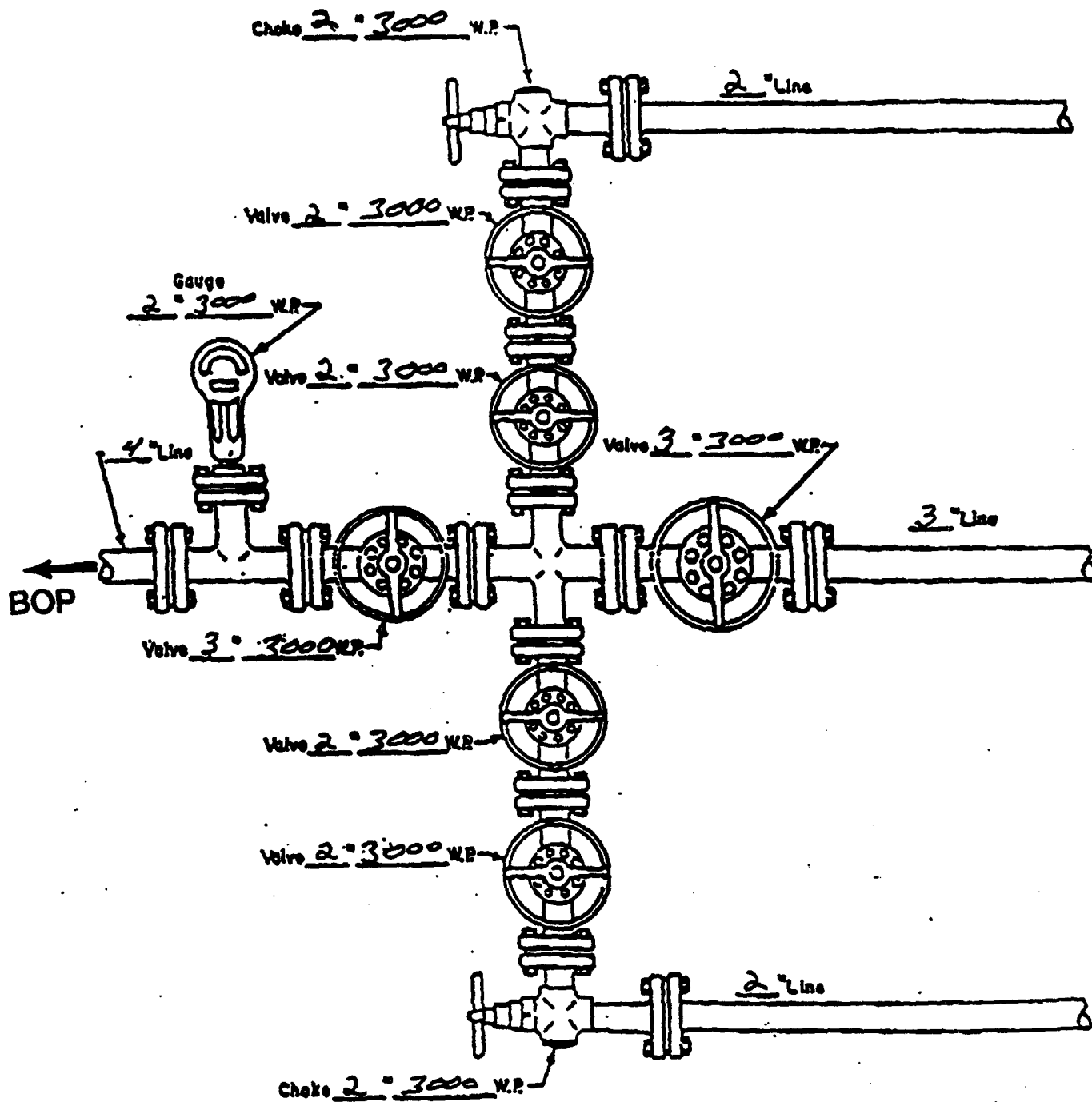
CEMENT PROPERTIES

	<u>SLURRY NO. 1</u>	<u>SLURRY NO. 2</u>
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

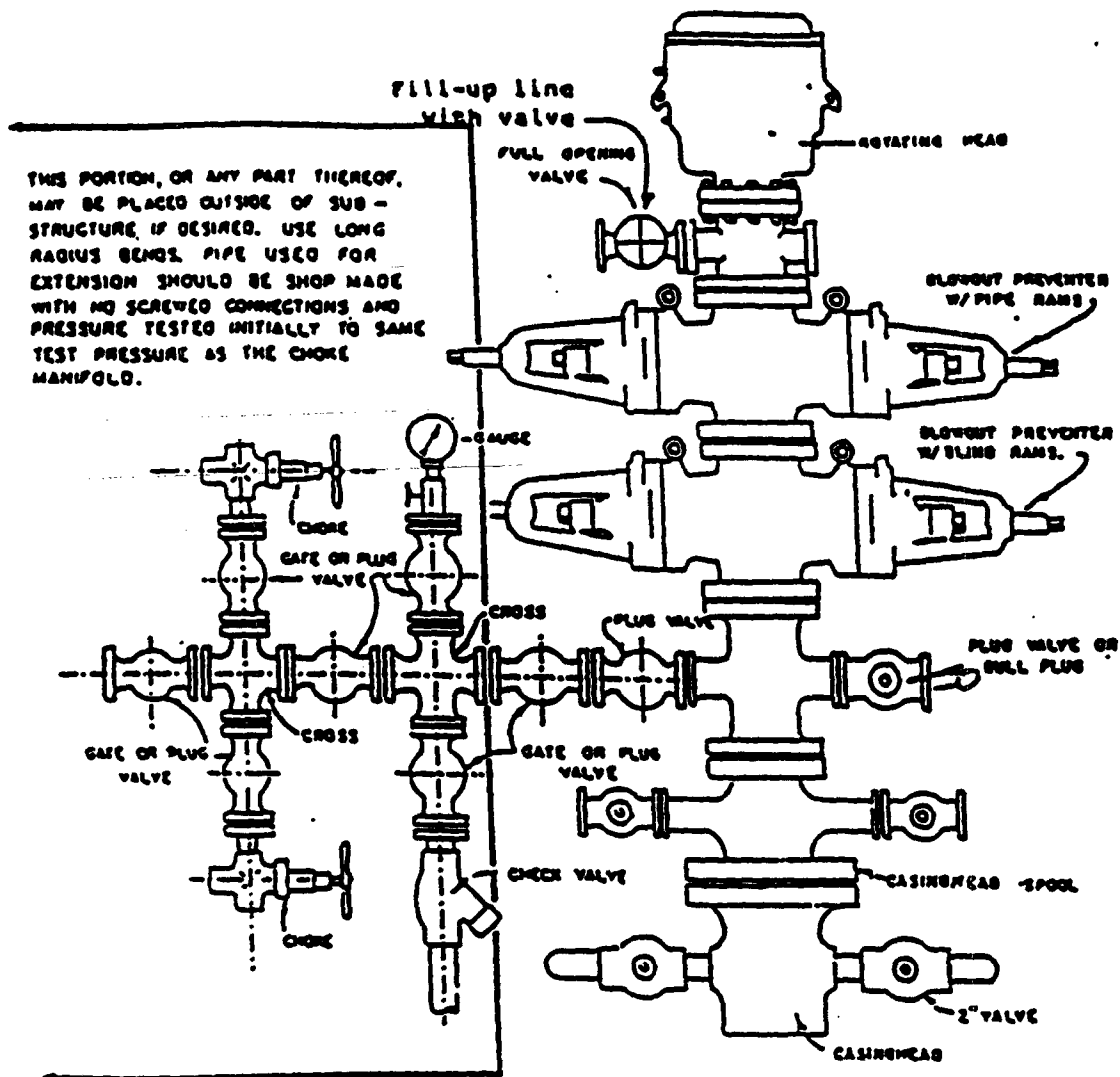
<u>FLUID</u>	<u>TEMP</u>	<u>600</u>	<u>300</u>	<u>200</u>	<u>100</u>	<u>6</u>	<u>3</u>
Lead Slurry	@ ° F	153	141	136	130	50	38
Tail Slurry	@ 80 ° F	150	102	85	68	43	35

CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 #W.P.

- ☒ Manual
- ☐ Hydraulic



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.