

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/21/00 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 PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/21/00 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

+Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C 103
Revised 1-1-89

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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input checked="" type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input 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.

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)
APPROVED BY Larry W. Wink TITLE FIELD REPRESENTATIVE II DATE JUN 12 2000
CONITIONS OF APPROVAL, IF ANY

+Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C 103
Revised 1-1-89

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 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 <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <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.

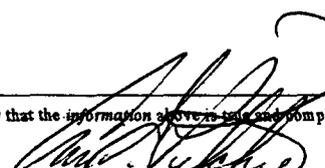
4-8-00: Rigged up, tested BOP to 1500 psi, RIH w/4 3/4" bit & workstring, prep to drill out. SION.

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 shown on this form is complete to the best of my knowledge and belief.

SIGNATURE  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  TITLE **DISTRICT I SUPERVISOR** DATE **JUN 14 2000**

CONDITIONS OF APPROVAL, IF ANY:

+Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

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 [X] 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 [X] 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: 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 [X], 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 [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 [Signature] SUPERVISOR DISTRICT 1 MAY 03 2000

+Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

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

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

WELL API NO. 30 025 34936
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2. Name of Operator Conoco Inc.
3. Address of Operator 10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500
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10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3742'

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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 [X], 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 [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 [Signature] 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

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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.

- Well Location & Acreage Dedication Plat (C-102)
- Proposed Well Plan Outline
- Cementing Program
- 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.		OIL CONSERVATION DIVISION	
Signature: <i>Jo Ann Johnson</i>		Approved by: <i>Larry W. Wink</i>	
Printed name: Jo Ann Johnson		Title: FIELD REPRESENTATIVE II	
Title: Sr. Property Analyst		Approval Date: <i>SEP 27 2000</i>	Expiration Date: <i>SEP 27 2000</i>
Date: 2/8/00	Phone: 915-686-5515	Conditions of Approval:	
		Attached <input type="checkbox"/>	

DISTRICT I
1635 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Antec, 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 30-025-34936	Pool Code —	Pool Name Abo Wildcat
Property Code 25333	Property Name STATE "B-19"	Well Number 2
OGHD 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 40	Joint or Infill	Consolidation Code	Order No. 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

	<p>OPERATOR CERTIFICATION</p> <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><i>Jo Ann Johnson</i> Signature</p> <p>Jo Ann Johnson Printed Name</p> <p>Sr. Property Analyst Title</p> <p>2/8/00 Date</p>	
	<p>SURVEYOR CERTIFICATION</p> <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>January 28, 2000 Date Surveyed</p> <p>GARY L. JONES Signature & Seal of Professional Surveyor</p> <p>7977 No.</p> <p>W.O. No. 0044</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>	
	<p>LAT - N 32°44'02.6"</p> <p>LONG - W 103°17'08.6"</p>	
	<p>2275'</p> <p>1215'</p>	

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

Existing Lease Road

150' NORTH
□ OFF SET
3742.8'

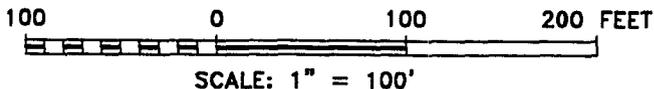
CONOCO INC.
STATE "B-19" #2
ELEV. - 3742'

150' EAST
□ OFF SET
3743.1'

150' WEST
□ OFF SET
3741.4'

⊙
Lat-N 32°44'02.6"
Long-W 103°17'08.6"

150' SOUTH
□ OFF SET
3740.8'



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

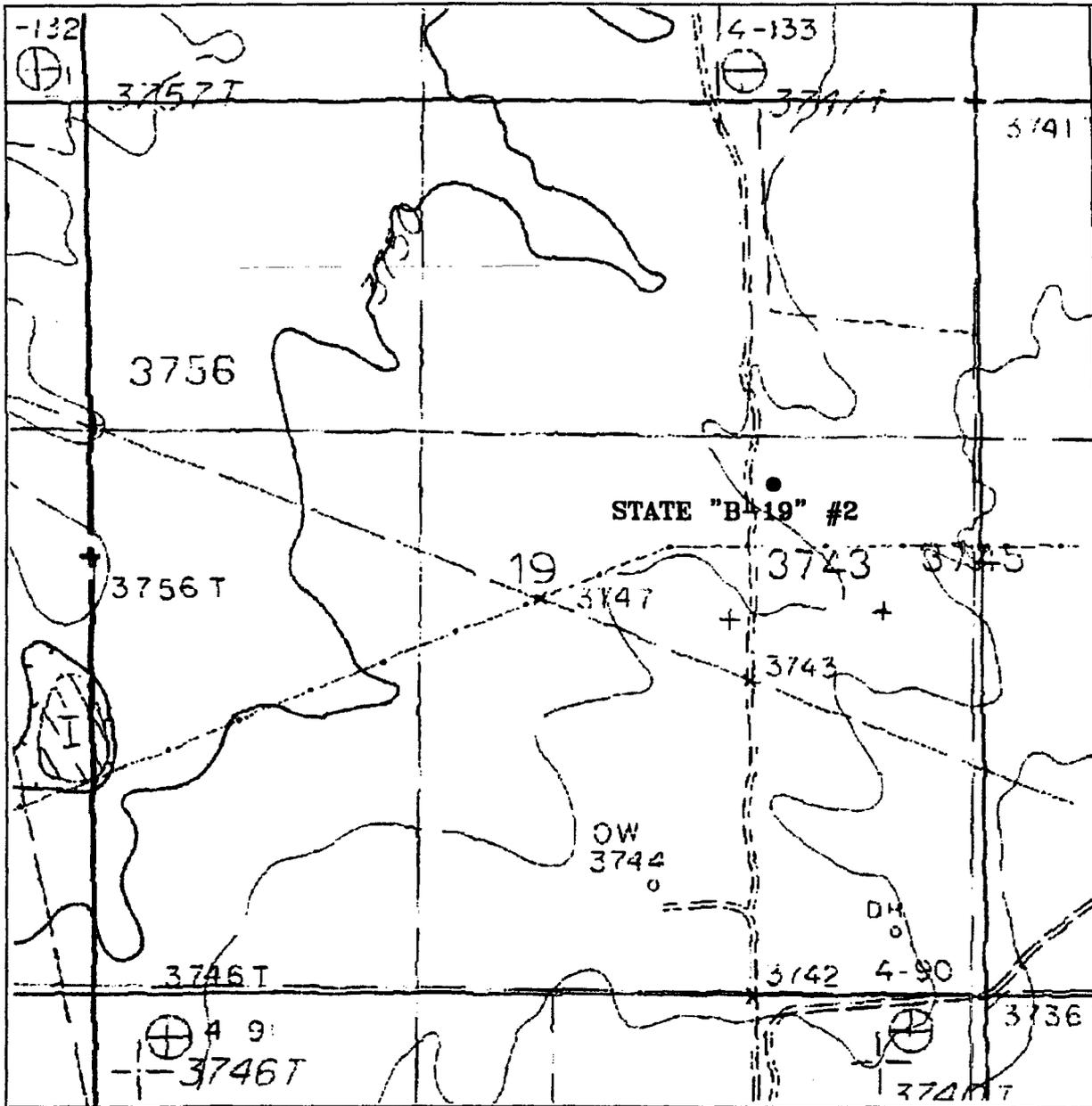
Drawn By: K. GOAD

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
 basinsurveys.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
2000	Base Salt @ 2,658' Yates @ 2,812'	Washouts in Salt Section	H2S Monitor on @ 2,700' Mud Loggers F/ 2,800' - TD	7-7/8"	Circulate Cement		Less than 8.4	10 Brine	
3000	7 Rivers @ 3,121'								
4000	Queen @ 3,743' Grayburg @ 4,142'								7
5000	San Andres @ 4,464'	Lost Returns in San Andres							
6000	Glorietta @ 5,918' Blinebry Mkr @ 6,297'	Possible differential sticking thru Glorietta & Paddock							
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						
8000	TD @ 7,950'		Second Log Run: FMI imaging log		5-1/2", 17.0#, J-55 LT&C 1/0'-7,950' Circulate Cement			10 ppg Starch Gel	20

Note:

DATE 02-Feb-00

Bruce Wiley, Geologist

APPROVED Yong Cho, Drilling Engineer

Jim Hubbard, Reservoir Engineer



Proposal No: 180253006A

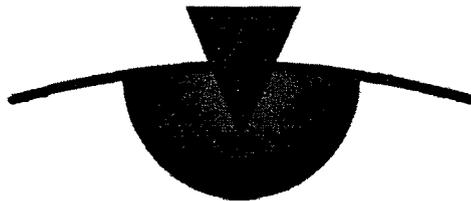
**Conoco
State B-19 No. 2**

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
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

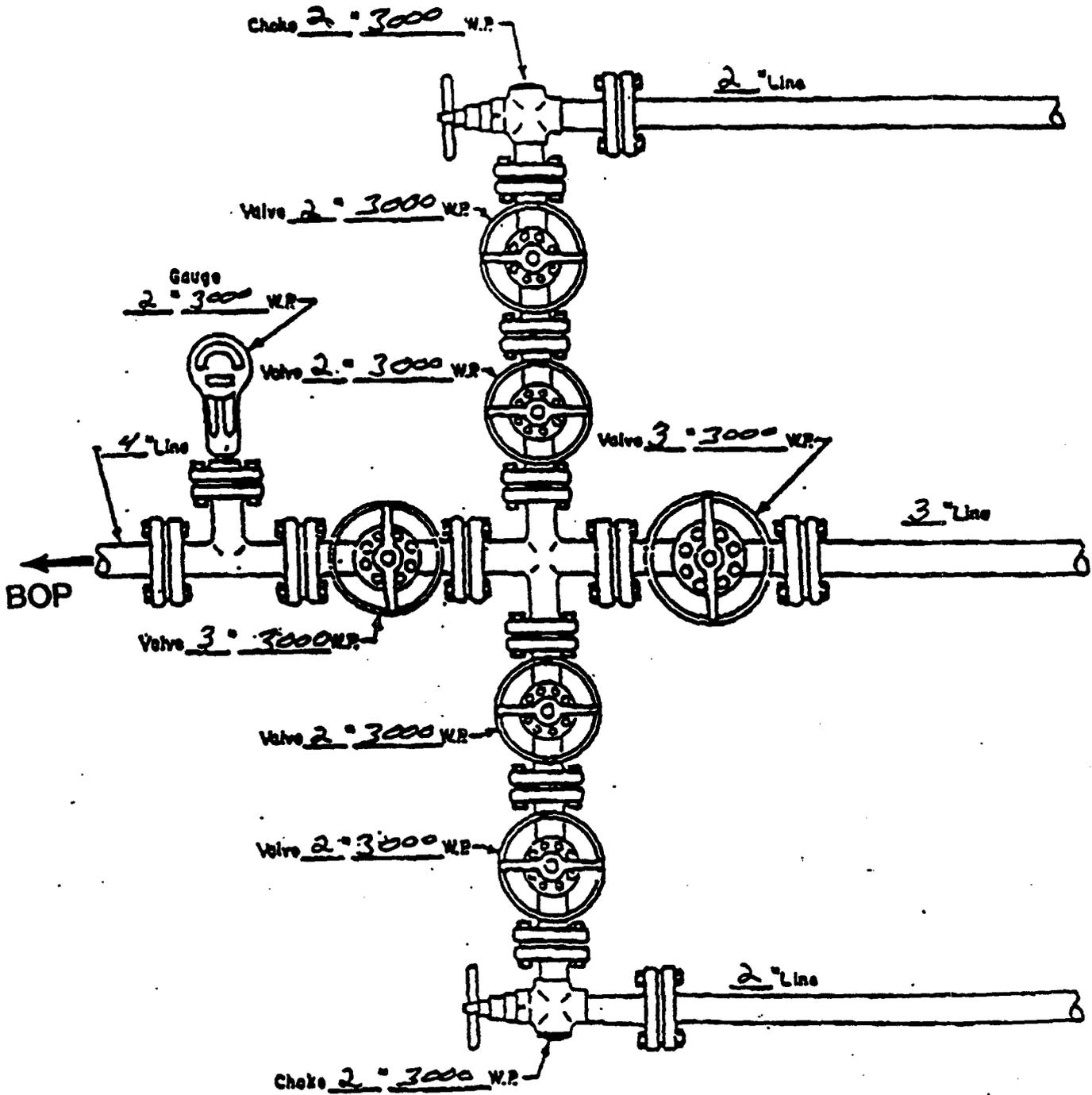
CEMENT PROPERTIES

	SLURRY SLURRY	
	NO. 1	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

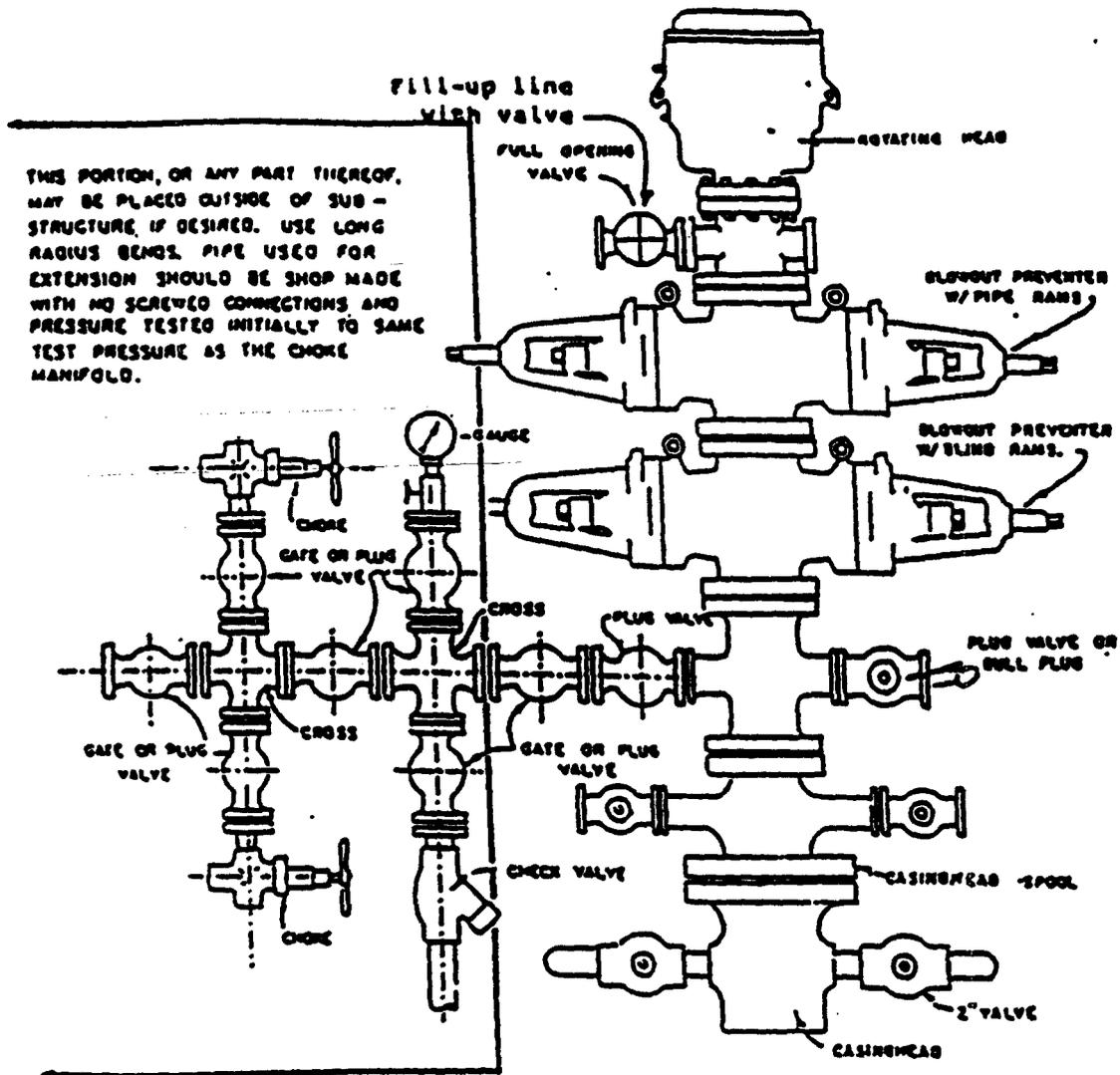
FLUID	TEMP	600	300	200	100	6	3
Lead Slurry	@ ° F	153	141	136	130	50	38
Tail Slurry	@ 80 ° F	150	102	85	68	43	35

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.