

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Patterson Petroleum LP		² OGRID Number 141928 ✓
P.O. Drawer 1416 Snyder, TX 79550 ✓		³ API Number 30-025-38277
⁴ Property Code 36309	⁵ Property Name Ambrose 36 State Com	⁶ Well No. 1
⁹ Proposed Pool 1 Leamex; Morrow, West WILDCAT; MORROW		¹⁰ Proposed Pool 2 Wildcat

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
G	36	17S	32E		1650	North	1650	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

Additional Well Information

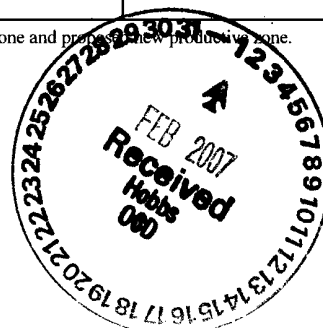
¹¹ Work Type Code N ✓	¹² Well Type Code G ✓	¹³ Cable/Rotary R	¹⁴ Lease Type Code S ✓	¹⁵ Ground Level Elevation 3970'
¹⁶ Multiple N	¹⁷ Proposed Depth 14,000	¹⁸ Formation Morrow	¹⁹ Contractor Patterson-UTI	²⁰ Spud Date 04/15/07 ✓
Depth to Groundwater 180' 48'		Distance from nearest fresh water well 6500'		Distance from nearest surface water None
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12mils thick Clay <input type="checkbox"/> Pit Volume: 15,000 bbls Drilling Method: Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				
Closed-Loop System <input type="checkbox"/>				

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#	400'	500	Surface ✓
12-1/4"	9-5/8"	40#	4800'	1750	Surface ✓
8-3/4"	5-1/2"	20#	14,000'	2000	4600' ✓

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and propose a new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drilling fluid synopsis attached
BOP: Shaffer 13-5/8" 5000 psi - see figure 2.5
Additional casing & cementing information attached.



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature: <i>Nolan von Roeder</i>		Approved by: <i>Chris Williams</i>	
Printed name: Nolan von Roeder		Title: Chris Williams, District Supervisor	
Title: Engineer		Approval Date: FEB 13 2007 Expiration Date:	
E-mail Address:			
Date: 01/24/2007	Phone: 325-573-1938	Conditions of Approval Attached <input type="checkbox"/> <i>Pit must be sealed. CW</i>	

DISTRICT I

1225 N. FRENCH DR., HOBBES, NM 86240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38277	Pool Code 13999	Pool Name (97552) LEAMEX; MORROW, WEST	Well Number 1
Property Code 36309	Property Name AMBROSE 36 STATE COM		Elevation 3970'
OGRID No. 141928	Operator Name PATTERSON PETROLEUM, LP		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	36	17-S	32-E		1650	NORTH	1650	EAST	LEA

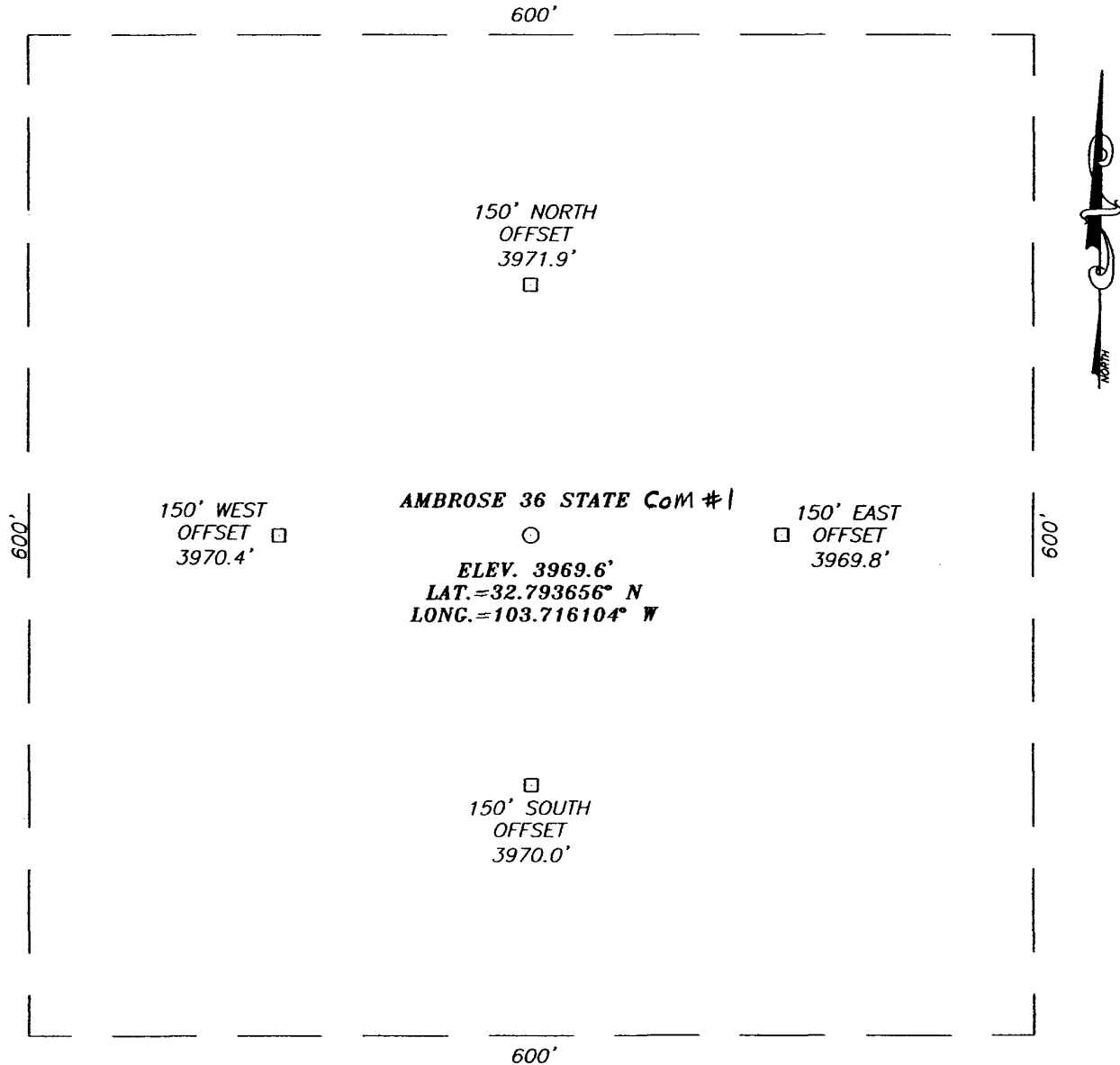
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	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

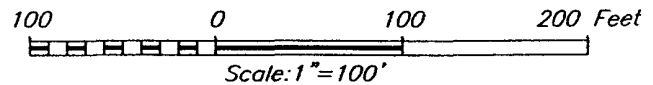
<p>GEODETIC COORDINATES NAD 27 NME Y=652996.4 N X=689672.8 E LAT.=32.793656° N LONG.=103.716104° W</p>	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Nolan von Roeder Printed Name
	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. NOVEMBER 29, 2006 Date Surveyed _____ JR Signature & Seal of Professional Surveyor 06.11.1858 Certificate No. GARY EIDSON 12641

SECTION 36, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. L-126 (MALJAMAR RD.) AND ST. HWY. #529, GO EAST ON ST. HWY. #529 APPROX. 1.85 MILES. TURN LEFT (THROUGH CATTLEGAUD) AND GO NORTH APPROX. 0.5 MILES. TURN RIGHT AND GO EAST APPROX. 0.8 MILES TO AN EXIST WELL PAD. THIS LOCATION IS APPROX. 1000 FEET SOUTHEAST.



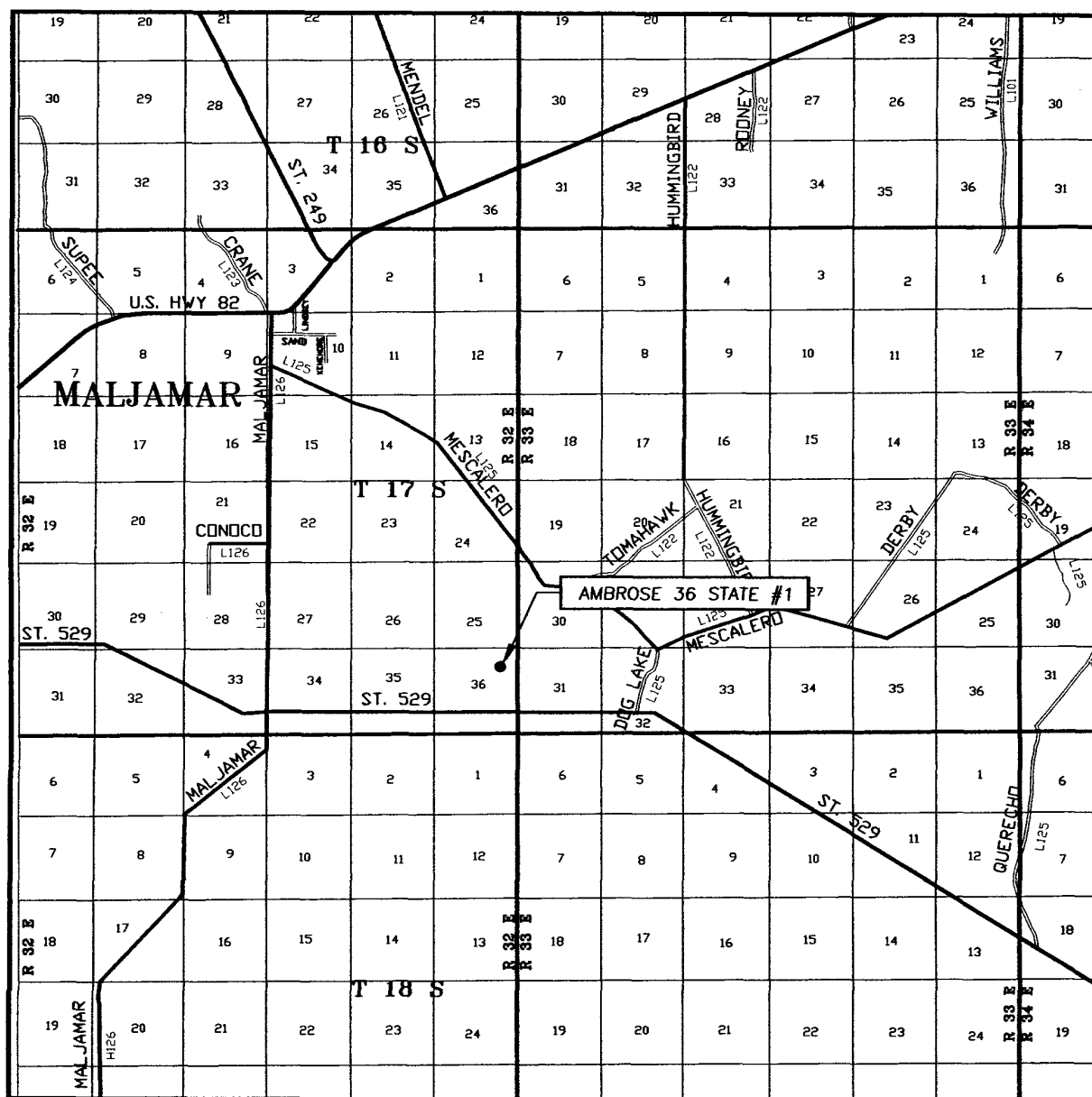
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

PATTERSON PETROLEUM, LP

COM
 AMBROSE 36 STATE #1 WELL
 LOCATED 1650 FEET FROM THE NORTH LINE
 AND 1650 FEET FROM THE EAST LINE OF SECTION 36,
 TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

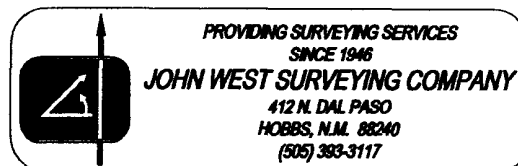
Survey Date: 11/29/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1858	Dr By: J.R. Rev 1:N/A
Date: 12/09/06	Disk: CD#6 06111858 Scale: 1"=100'

VICINITY MAP

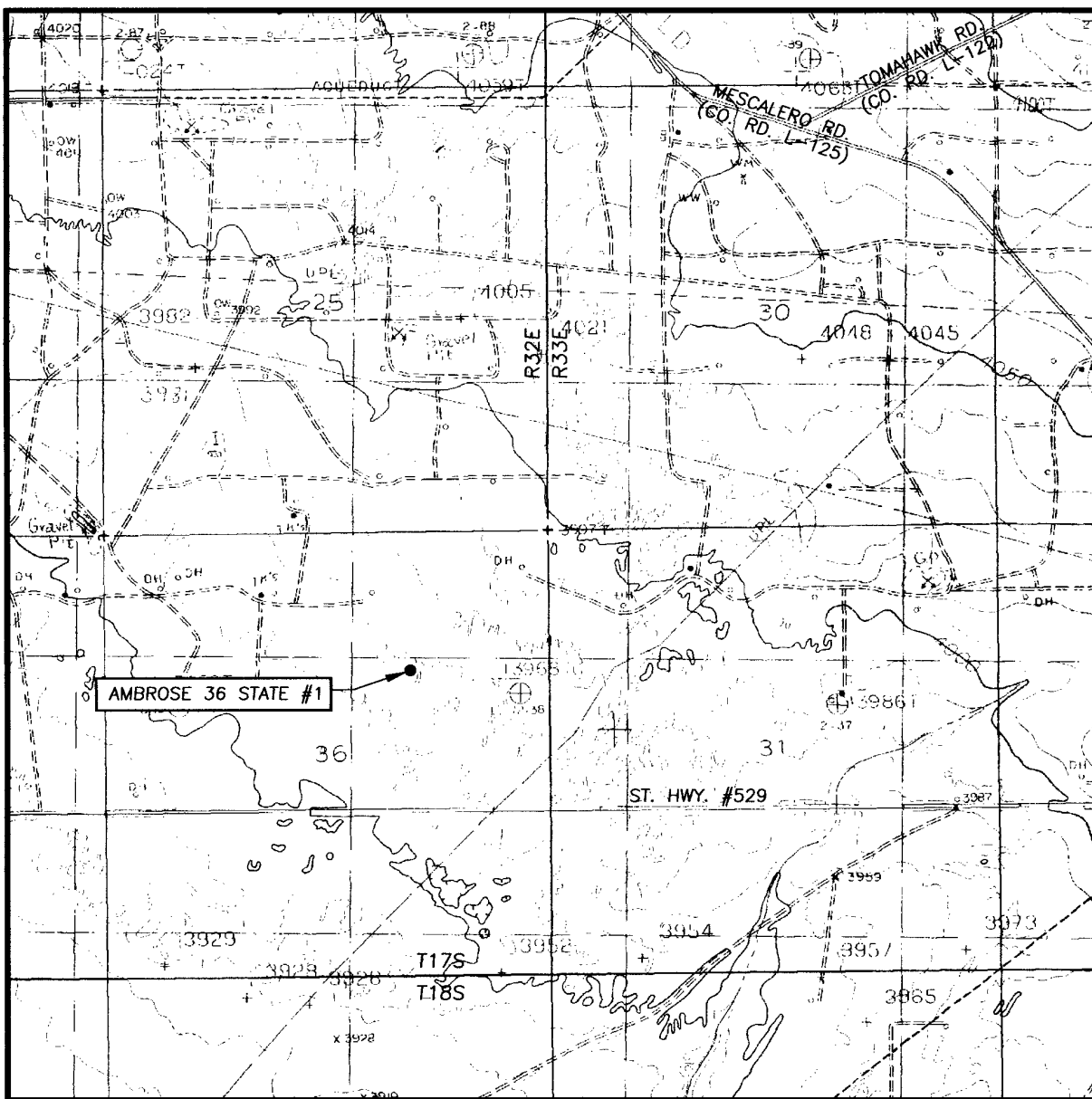


SCALE: 1" = 2 MILES

SEC. 36 TWP. 17-S RGE. 32-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 1650' FNL & 1650' FEL
 ELEVATION 3970'
 OPERATOR PATTERSON
PETROLEUM, LP
 LEASE AMBROSE 36 STATE COM



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
DOG LAKE, N.M. - 10'

SEC. 36 TWP. 17-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

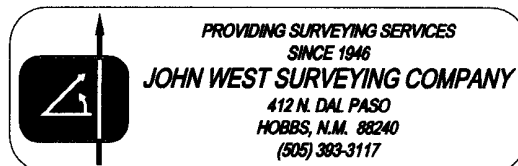
DESCRIPTION 1650' FNL & 1650' FEL

ELEVATION 3970'

OPERATOR PATTERSON
PETROLEUM, LP

LEASE AMBROSE 36 STATE COM

U.S.G.S. TOPOGRAPHIC MAP
DOG LAKE, N.M.





PATTERSON PETROLEUM LP

A LIMITED PARTNERSHIP

P.O. Box 1416, Snyder, TX 79550

4510 Lamesa Hwy., Snyder, TX 79549

Phone: 325-573-1938 • Fax 325-573-1939

DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM LP

Ambrose 36 State Com No. 1

Section 36
T-17-S
R-32-E
Lea County, New Mexico

CASING

13 3/8" at 400'
9 5/8" at 4800'
5 1/2" at 14,000'

DEPTH	MUD WT.	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0' - 400'	8.4 to 9.0	28 to 40	No Control	5%	FW Spud mud & paper
400' - 1500'	8.4 to 9.0	28 to 33	No Control	1%	Native mud + 2% oil
1500' - 4800'	9.0 to 10.3	28 to 33	No Control	1%	Brine water, paper, caustic
4800 - 11,500'	8.4 to 9.2	28 to 30	No Control	1%	Cut-brine, paper & caustic
11,500 - 14,000'	10 to 10.5	36 to 46	10 cc or less	< 5%	Xanthan gum, starch, pac, & caustic

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM

AMBROSE 36 STATE COM WELL NO. 1

13 3/8", 48 lb/ft, H-40 Surface Casing Set at 400' - in a 17 1/2" Hole

Circulate to surface with 500 sacks of Class "C" + 2% CaCl₂ + 1/4 lb/sk celloflake

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft/sk
Water Requirement:	6.3 gal/sk

9 5/8", 40 lb/ft, J-55 & N-80 Intermediate Casing Set at 4800' - in a 12 1/4" Hole

Lead : 1500 sx of 35:65 Poz Class "C" + 5% salt + 6% gel + 1/4 lb/sk celloflake
+ 2/10 % antifoamer

Desired TOC = Surface

Slurry Weight:	12.4 ppg
Slurry Yield:	2.15 cu.ft/sk
Water Requirement:	11.99 gal/sk

Tail : 250 sx of Class "C" Neat

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft/sk
Water Requirement:	6.31 gal/sk

5 1/2", 20 lb/ft P110 Production String Casing Set at 14,000' - in an 8 3/4" Hole

Desired TOC = 4600'

1st Stage Lead : 600 sx of Halliburton Light H + 5% salt + 3/10% HR-7 retarder

Slurry Weight:	12.7 ppg
Slurry Yield:	1.95 cu.ft/sk
Water Requirement:	10.48 gal/sk

1st Stage Tail : 300 sx of Halliburton Super H w/ 0.5% Lap-1+ 0.4% dispersant +
0.25% antifoamer and 0.25% retarder

Slurry Weight:	13.2 ppg
Slurry Yield:	1.60 cu.ft/sk
Water Requirement:	8.21 gal/sk

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM CONTINUED

AMBROSE 36 STATE COM WELL NO. 1

5½" DV TOOL @ ± 8500'

2nd Stage Lead : 1000 sx of Halliburton Lite + 5% salt + 3/10% HR-7 retarder

Slurry Weight:	12.7 ppg
Slurry Yield:	1.95 cu.ft/sk
Water Requirement:	10.48 gal/sk

2nd Stage Tail : 100 sx "C" neat

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft/sk
Water Requirement:	6.31 gal/sk

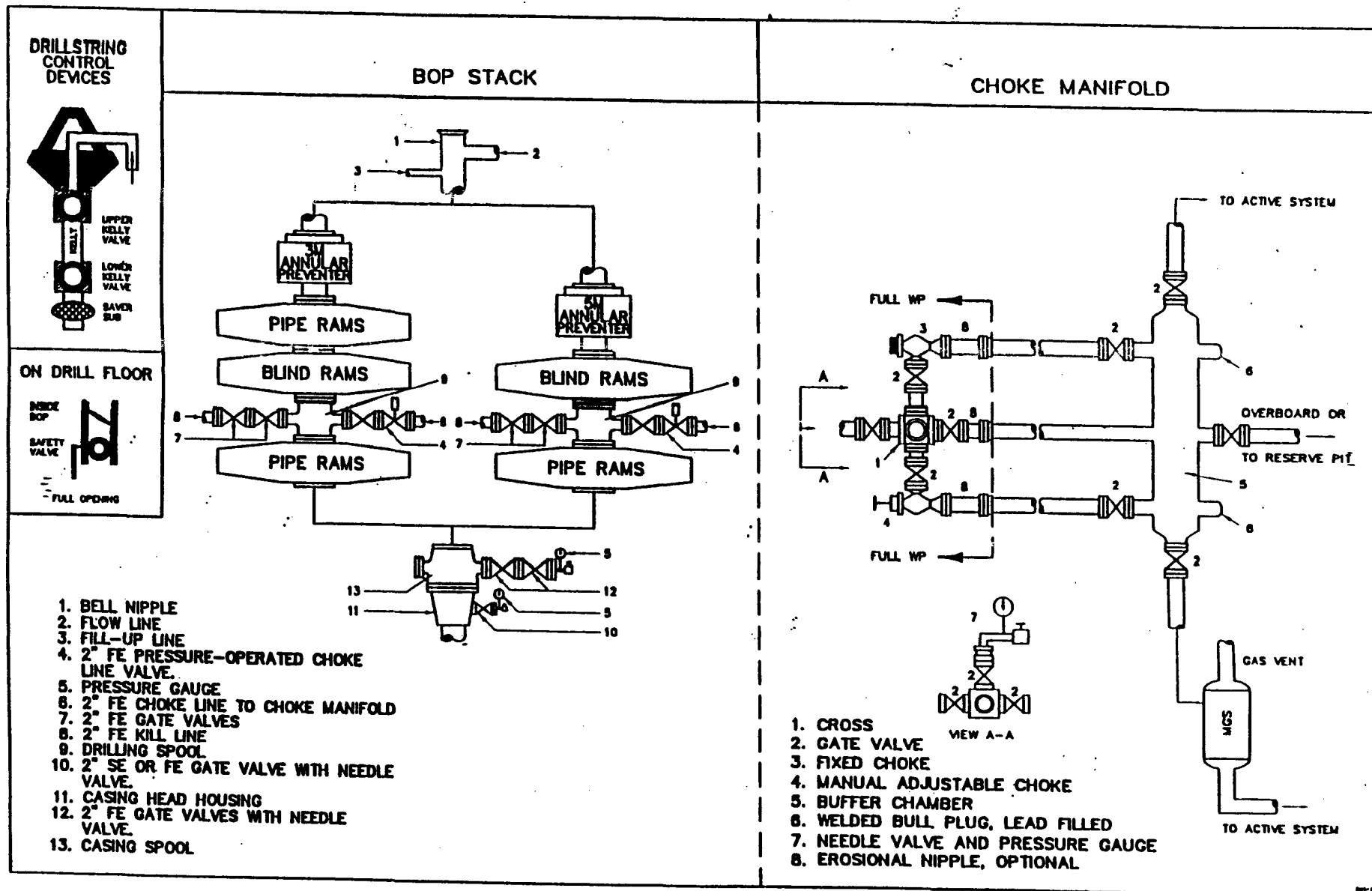


Fig. 2.5. Class 3 BOP and Choke Manifold.