

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 P.O. Drawer 1416 Snyder, TX 79550		² OGRID Number 141928	
³ Property Code 36230		⁴ Property Name Paddy 19 State	
⁵ API Number 30 - 025-38418		⁶ Well No. 2	
⁹ Proposed Pool 1 Maljamar; Paddock, East		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
D/1	19	17S	33E		694	North	892	West	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 Oil	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4119
¹⁶ Multiple No	¹⁷ Proposed Depth 6300'	¹⁸ Formation Paddock	¹⁹ Contractor Patterson-UTI Drlg	²⁰ Spud Date 07/01/07
Depth to Groundwater 188'		Distance from nearest fresh water well 3500'		Distance from nearest surface water None
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/>		Pit Volume: 10,000 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"/>				

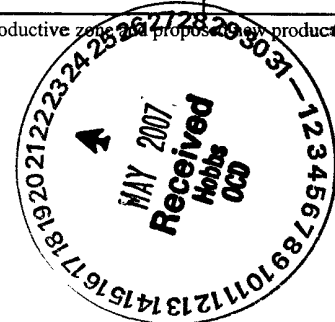
²¹ Proposed Casing and Cement Program

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"	8-5/8"	32#	4800'	2250	Surface
7-7/8"	5-1/2"	17#	6300'	500	4000'

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

Drilling fluid synopsis attached
BOP: Shaffer 13-5/8" 3000 psi - see figure 2.5
Additional casing & cementing information attached

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. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Nolan von Roeder		Approved by: <i>Chris Williams</i>	
Title: Engineer		Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER	
E-mail Address:		Approval Date: MAY 23 2007	
Date: 05/18/07		Expiration Date:	
Phone: 325-573-1938		Conditions of Approval Attached <input type="checkbox"/>	

State of New Mexico

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025-38418	Pool Code 97417 ✓	Pool Name MALJAMAR; Paddock, EAST
Property Code 36230	Property Name PADDY 19 STATE	Well Number 2
OGRID No. 141928	Operator Name PATTERSON PETROLEUM LP	Elevation 4119'

Surface Location

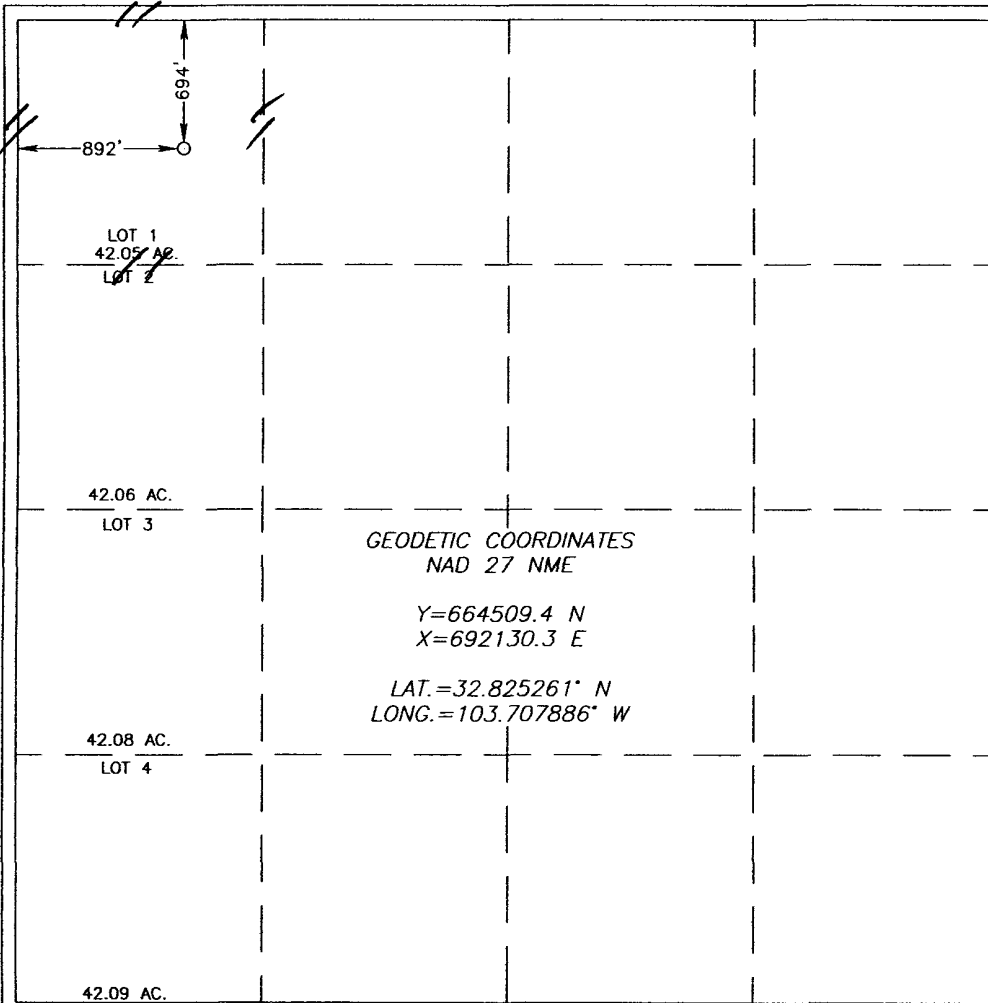
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	19	17-S	33-E		694	NORTH	892	WEST	LEA

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.
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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 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.

Nolan von Roeder 5/14/07
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.

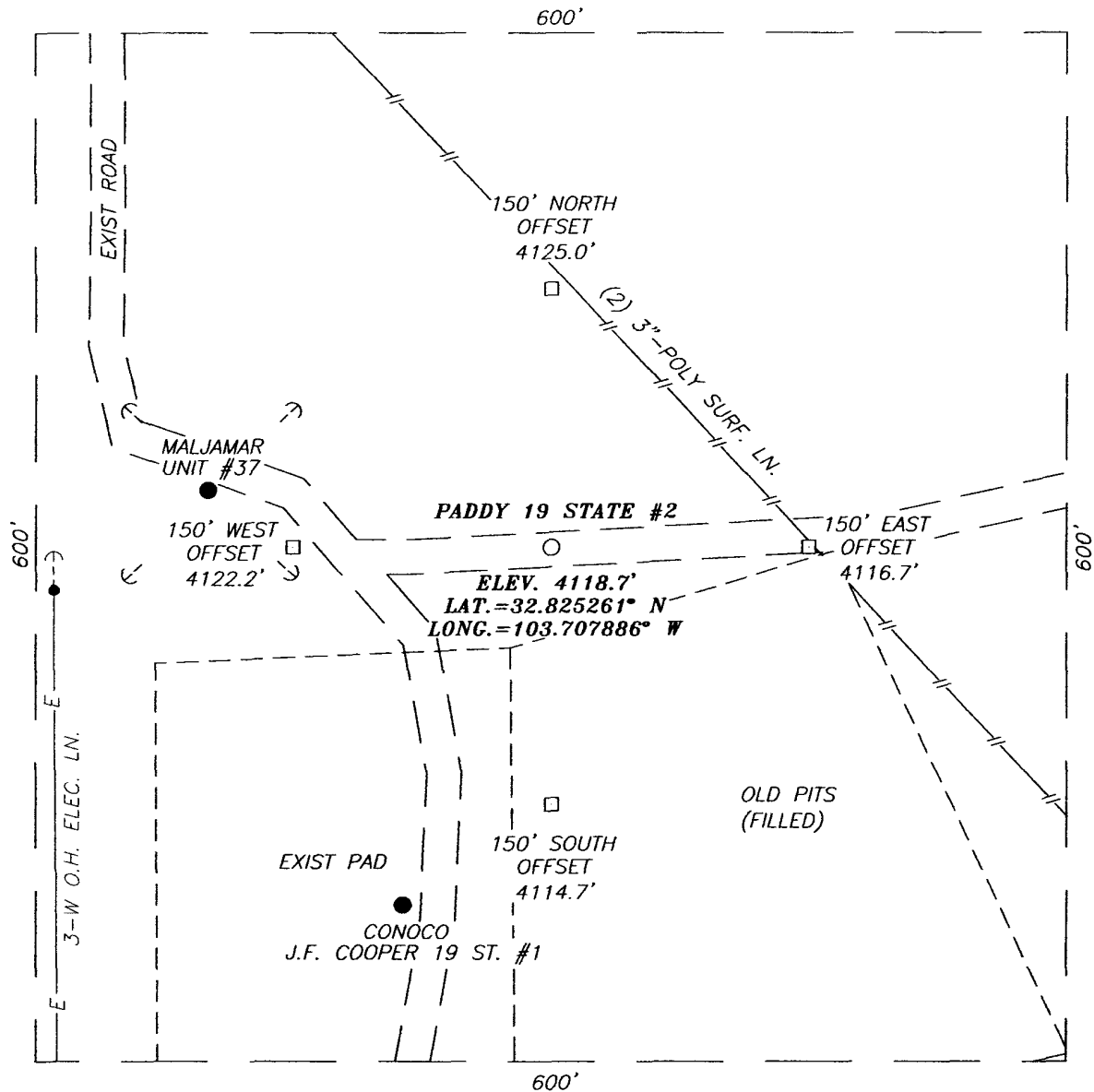
APRIL 24, 2007
Date Surveyed JR

Gary Eidson 5/9/07
Signature & Seal of Professional Surveyor

07.11.0526

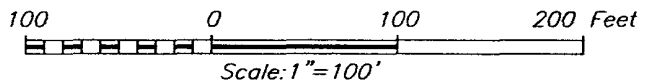
Certificate No. GARY EIDSON 12641

SECTION 19, TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO




DIRECTIONS TO LOCATION

FROM THE INTERSECTION CO. RD. L-125 (TOMAHAWK RD.) AND CO. RD. L-122 (HUMMINGBIRD RD.), GO NORTHWEST ON CO. RD. L-125 APPROX. 0.4 MILES. TURN RIGHT AND GO EAST APPROX. 0.1 MILES. TURN LEFT AND GO NORTH APPROX. 0.5 MILES TO THE J.F. COOPER 19 ST. #1 WELL. THIS LOCATION IS AT THE NORTHEAST CORNER OF EXISTING PAD.



PATTERSON PETROLEUM, LP			
PADDY 19 STATE #2 LOCATED 694 FEET FROM THE NORTH LINE AND 892 FEET FROM THE WEST LINE OF SECTION 19, TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.			
Survey Date: 04/24/07	Sheet 1 of 1 Sheets		
W.O. Number: 07.11.0526	Dr By: J.R.	Rev 1:N/A	
Date: 05/02/07	Disk: CD#7	07110526	Scale: 1"=100'



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



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

Paddy 19 State No. 2

Section 19
T-17-S
R-33-E
Lea County, New Mexico

CASING

13 3/8" at 400'
8 5/8" at 4800'
5 1/2" at 6,300'

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%	BW, paper, caustic
4800 - 6,200'	8.4 to 9.0	28 to 40	15 cc or less	< 5%	FW Gel, Pac & caustic

PATTERSON PETROLEUM LP
PROPOSED CASING & CEMENTING PROGRAM

PADDY 19 STATE WELL NO. 2

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 + ¼ lb/sk celloflake

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

8 5/8", 32 lb/ft, J-55 & N-80 Intermediate Casing Set at 4800' - in a 12 1/4" Hole

Lead : 2000 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", 17 lb/ft J55 Production String Casing Set at 6,300' - in a 7 7/8" Hole

Desired TOC = 4000'

Cement w/ 500 sx of "C" 50/50 Poz w/ .5% LAP1+ .3% CFR3 + 3 #/sk salt + 2% gel

Slurry Weight:	13.9 ppg
Slurry Yield:	1.39 cu.ft/sk
Water Requirement:	6.5 gal/sk

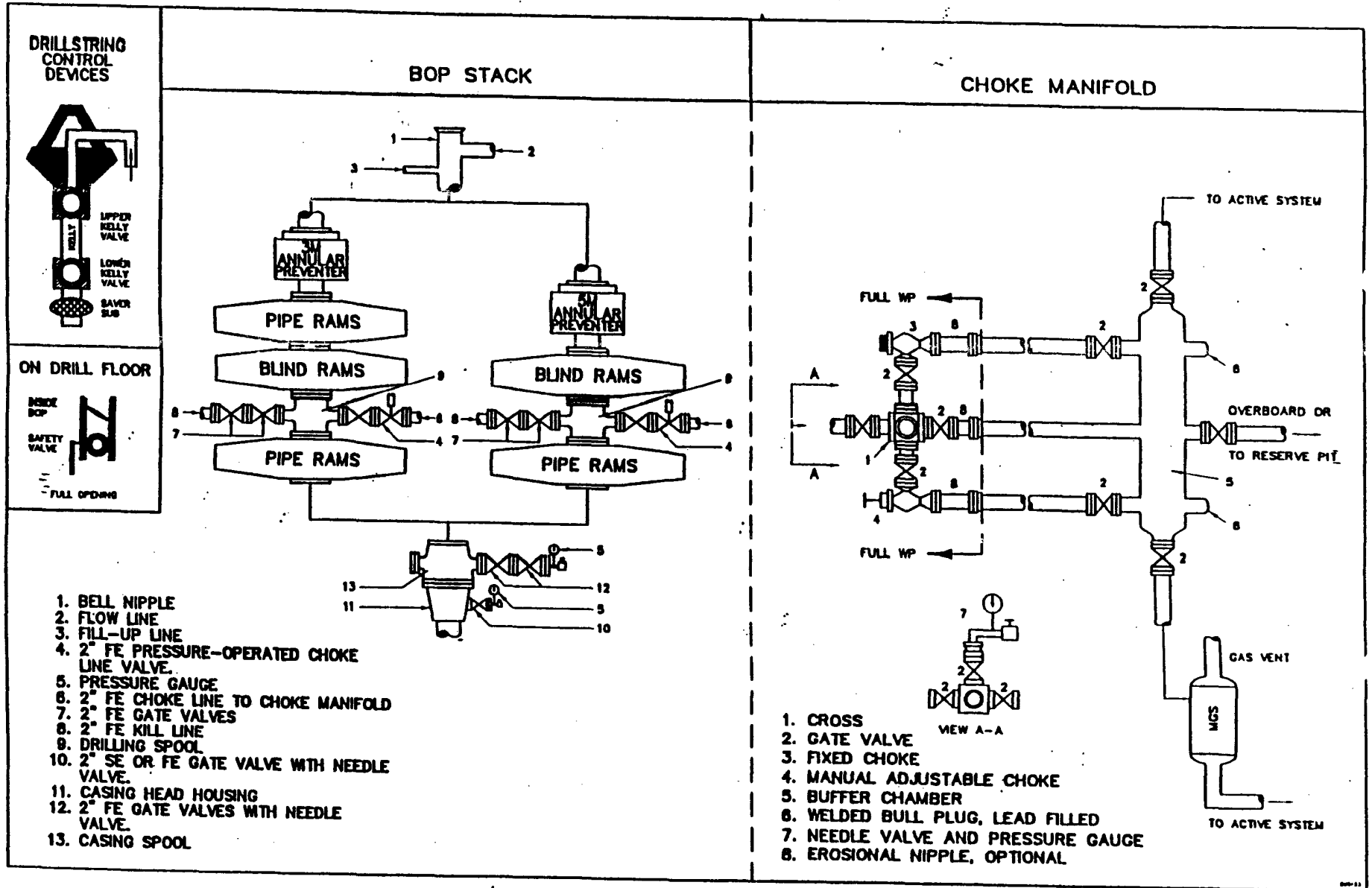


Fig. 2.5. Class 3 BOP and Choke Manifold.