

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	⁵ Property Name PADDY 19 STATE	⁴ API Number 30 - 025-38227
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
E-2	19	17S	33E		1995	NORTH	550	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 4093'
¹⁶ Multiple NO	¹⁷ Proposed Depth 6300'	¹⁸ Formation PADDOCK	¹⁹ Contractor PATTERSON-UTI DRILLING CO	²⁰ Spud Date 01/06/2007
Depth to Groundwater 188		Distance from nearest fresh water well 4500'		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: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <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 new 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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature:

Printed name: Nolan von Roeder

Title: Engineer

E-mail Address:

Date: 12/27/2006

Phone: 325-573-1938

OIL CONSERVATION DIVISION

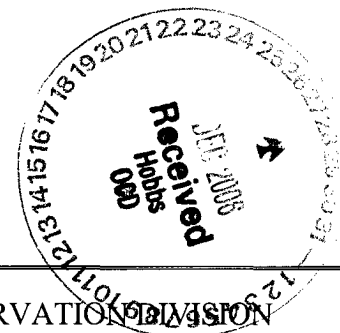
Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval Attached ☐



State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBES, NM 88240

Energy, Minerals and Natural Resources Department

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

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 30-025-38227	Pool Code 97417	Pool Name MALJAMAR; PADDOCK, EAST
Property Code 36230	Property Name PADDY 19 STATE	Well Number 1
OGRID No. 141928	Operator Name PATTERSON PETROLEUM, LP	Elevation 4093'

Surface Location

UL or lot No. E/2	Section 19	Township 17-S	Range 33-E	Lot Idn	Feet from the 1995	North/South line NORTH	Feet from the 550	East/West line WEST	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

	<p>LOT 1 42.05 AC.</p>						<p>OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>[Signature]</i> 12/27/06 Signature Date Nolan von Roeder Printed Name</p>	
	<p>LOT 2 42.06 AC.</p>						<p>SURVEYOR CERTIFICATION</p> <p>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.</p>	
	<p>LOT 3</p>						<p>NOVEMBER 29, 2006</p>	
	<p>LOT 4</p>						<p>Date Surveyed JR</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>[Signature]</i> 12/18/06 06.11.1869</p> <p>Certificate No. GARY EIDSON 12641</p>	

GEODETIC COORDINATES
NAD 27 NME

Y=663205.6 N
X=691796.3 E

LAT.=32.821682° N
LONG.=103.708998° W

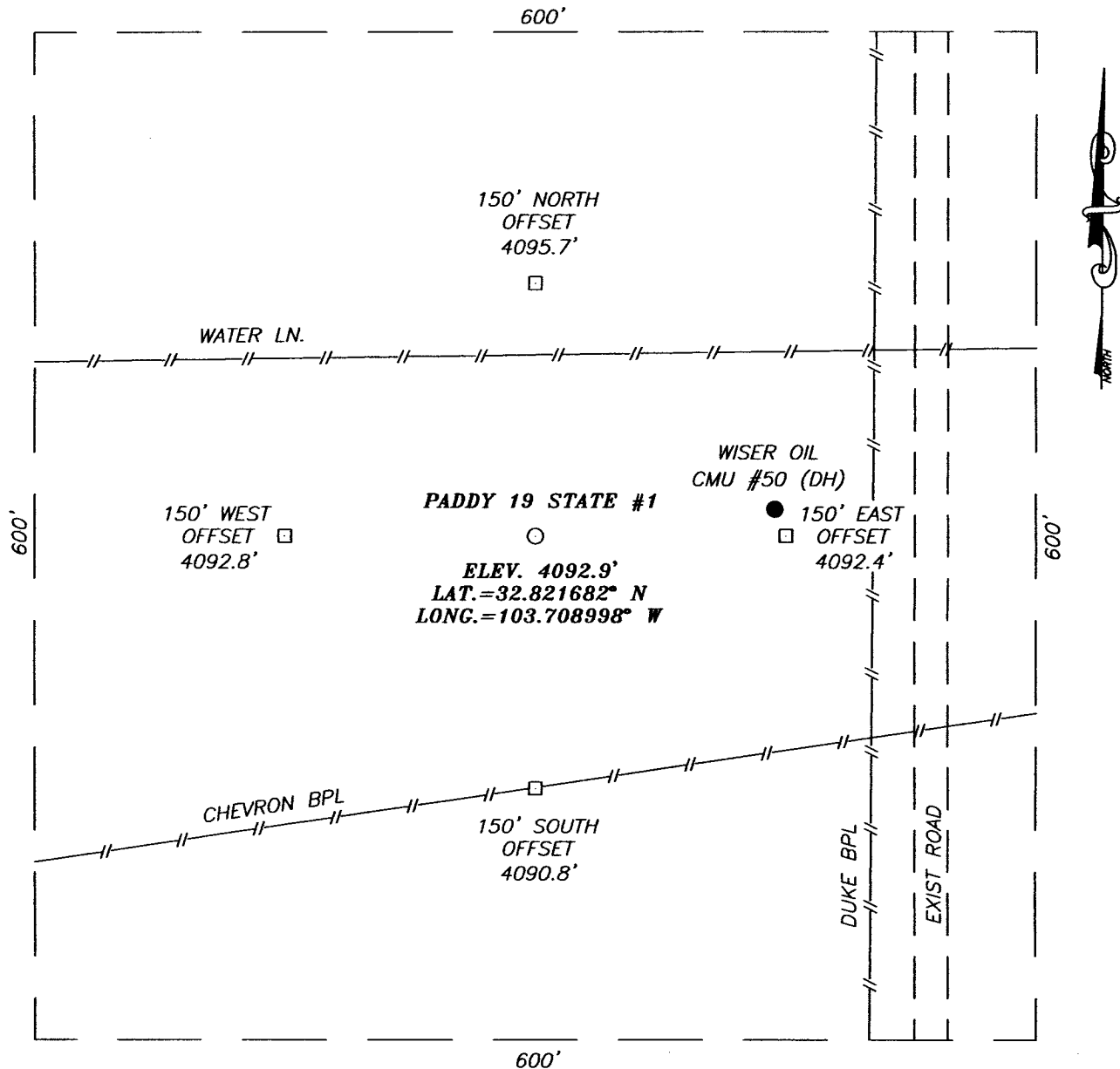
42.08 AC.
LOT 4

42.09 AC.

SECTION 19, TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M.,

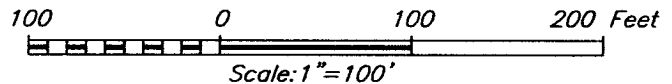
LEA COUNTY,

NEW MEXICO



DIRECTIONS TO LOCATION

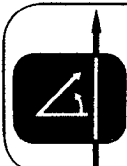
FROM THE INTERSECTION CO. RD. L-125 (MESCALERO RD.) AND CO. RD. L-122 (TOMAHAWK RD.), GO WEST ON CO. RD. L-122 APPROX. 0.75 MILES. TURN RIGHT AND GO EAST APPROX. 0.1 MILES. TURN LEFT AND GO NORTH APPROX. 0.3 MILES. THIS LOCATION IS APPROX. 250 FEET WEST.



PATTERSON PETROLEUM, LP

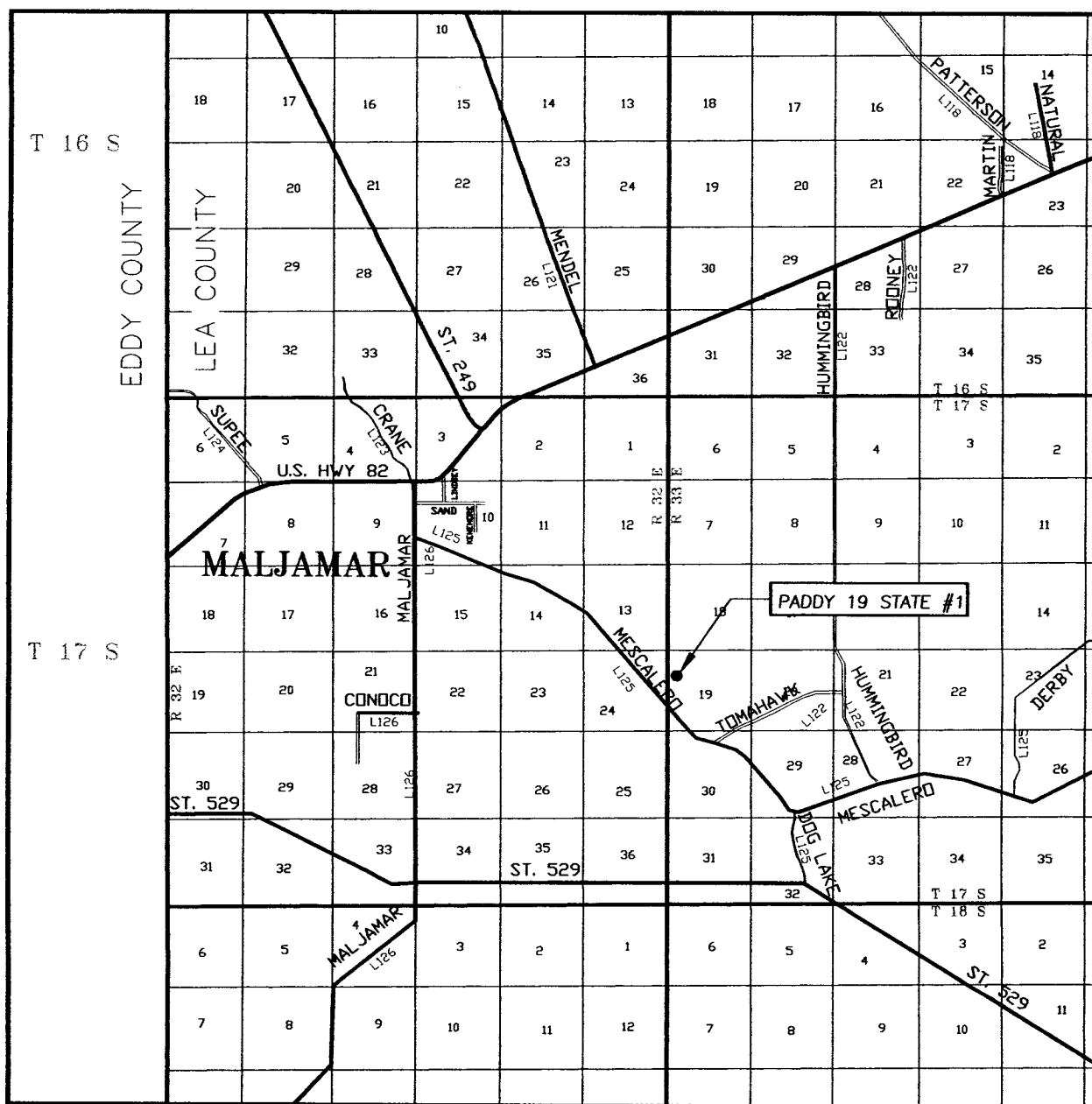
PADDY 19 STATE #1
LOCATED 1995 FEET FROM THE NORTH LINE
AND 550 FEET FROM THE WEST LINE OF SECTION 19,
TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 11/29/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1869	Dr By: J.R.
Date: 11/09/06	Disk: CD#6
06111869	Scale: 1"=100'



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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 19 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

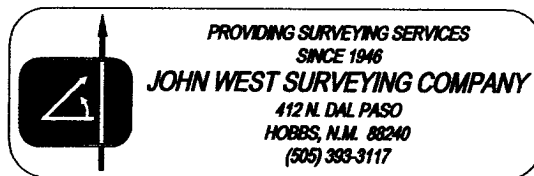
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1995' FNL & 550' FWL

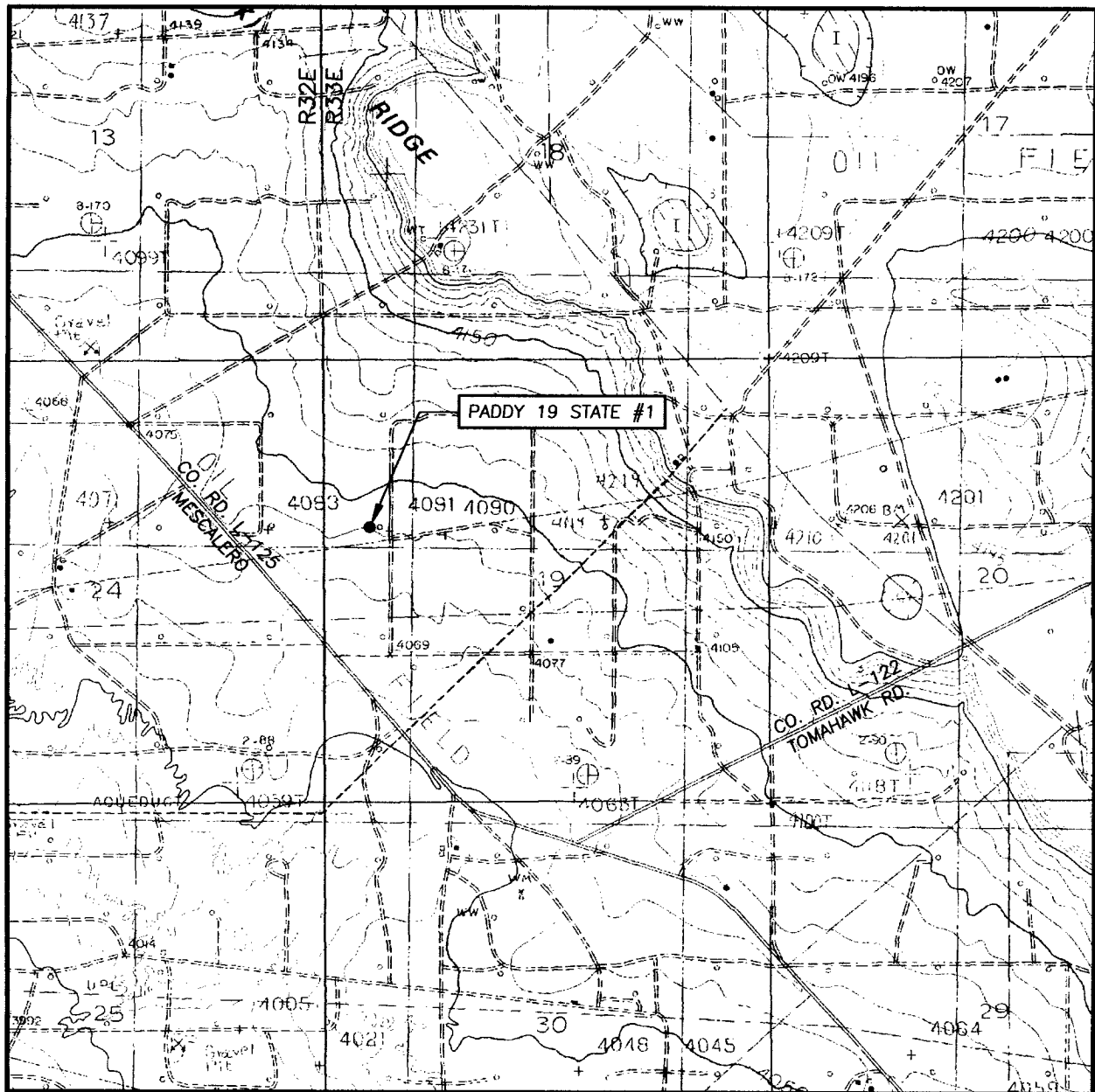
ELEVATION 4093'

OPERATOR PATTERSON PETROLEUM, LP

LEASE PADDY 19 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 19 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

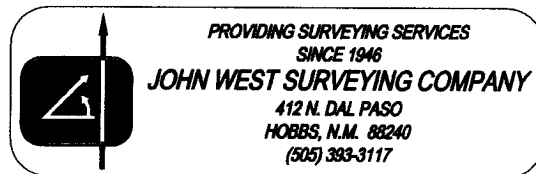
DESCRIPTION 1995' FNL & 550' FWL

ELEVATION 4093'

OPERATOR PATTERSON
PETROLEUM, LP

LEASE PADDY 19 STATE

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

Paddy 19 State No. 1

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. 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

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

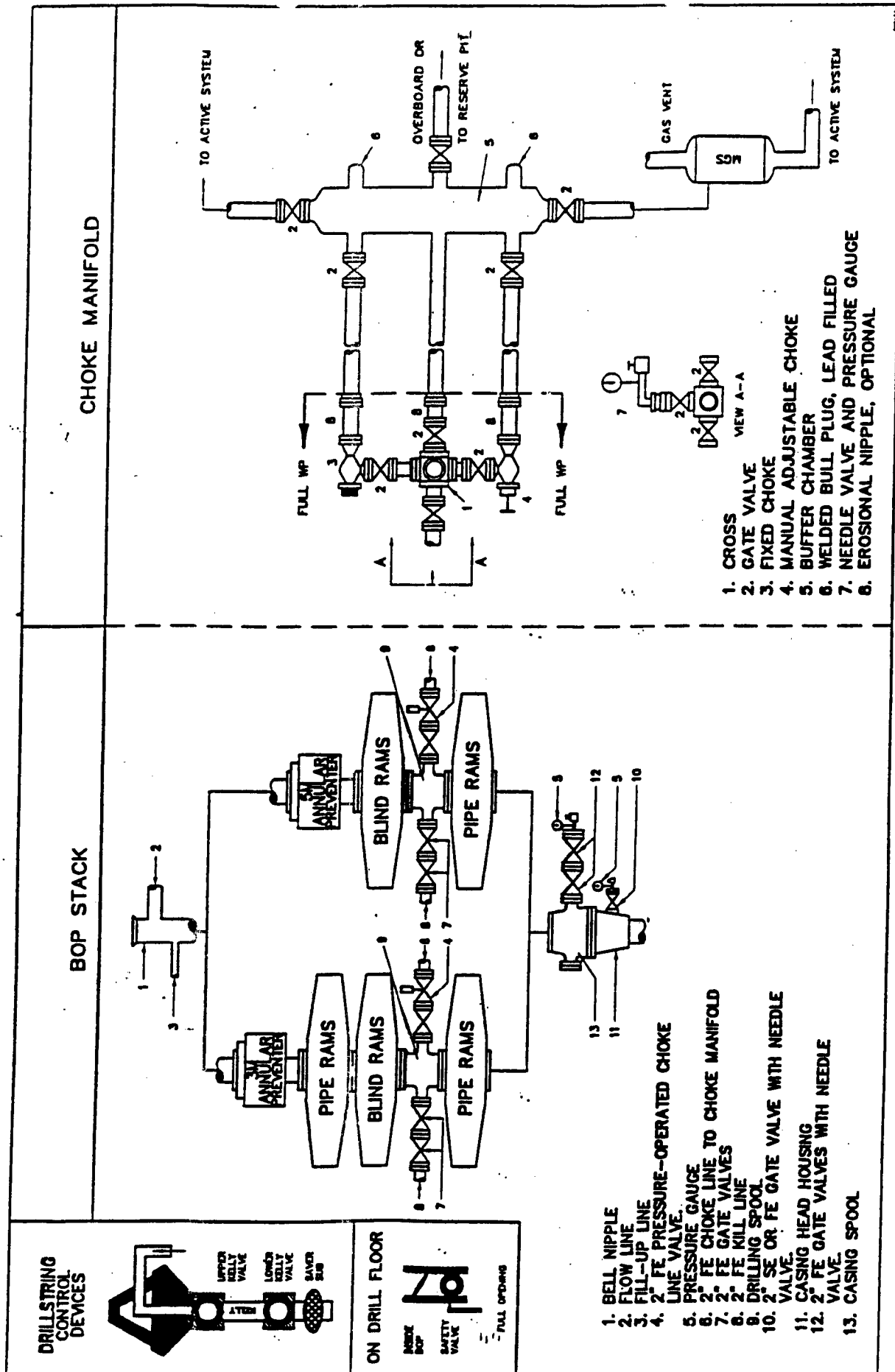


Fig. 2.5. Class 3 BOP and Choke Manifold.