

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

<sup>1</sup> Operator Name and Address PATTERSON PETROLEUM LP P.O. DRAWER 1416 SNYDER, TX 79550		<sup>4</sup> OGRID Number 141928
<sup>3</sup> Property Code 34265	<sup>5</sup> Property Name PADDY "13" STATE	<sup>2</sup> API Number 30-025-36873
<sup>9</sup> Proposed Pool 1 WILDCAT; PADDOCK		<sup>6</sup> Well No. 1
<sup>10</sup> Proposed Pool 2		

<sup>7</sup> Surface Location

UL or lot no. P	Section 13	Township 17-S	Range 32-E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 330	East/West line EAST	County LEA
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<sup>8</sup> 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
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Additional Well Information

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary ROTARY	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 4117'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 6200'	<sup>18</sup> Formation PADDOCK	<sup>19</sup> Contractor PATTERSON-UTI DRILLING CO	<sup>20</sup> Spud Date ASAP
Depth to Groundwater 180'		Distance from nearest fresh water well 18,000'		Distance from nearest surface water NONE
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12_mils thick Clay <input type="checkbox"/> Pit Volume: 12,000bbls 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"/>				

<sup>21</sup> Proposed Casing and Cement Program

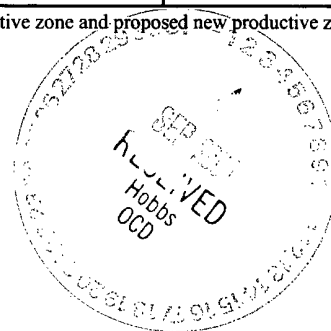
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	9-5/8"	36#	1500'	1000	SURFACE
8-3/4"	5-1/2"	17#	6200'	1300	SURFACE

<sup>22</sup> 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 3000 PSI DOUBLE HYDRAULIC W/ANNULAR BOP.

ADDITIONAL CASING & CEMENTING INFORMATION ATTACHED.



<sup>23</sup> 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 ☐.

Printed name: NOLAN VON ROEDER

Title: ENGINEER

E-mail Address: vonroedern@patenergy.com

Date: 09/02/04

Phone: 325/573-1938

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

OC DISTRICT

SUPERVISOR/GENERAL MANAGER

Expiration Date:

SEP 07 2004

Conditions of Approval Attached ☐

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

DISTRICT III  
1000 Rio Brazos Rd., Artec, 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 JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30-025-36843</b>	Pool Code	Pool Name <b>WILDCAT; PADDOCK</b>
Property Code <b>34265</b>	Property Name <b>PADDY "13" STATE</b>	Well Number <b>1</b>
OGRID No. <b>141928</b>	Operator Name <b>PATTERSON PETROLEUM, L.P.</b>	Elevation <b>4117'</b>

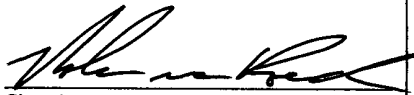
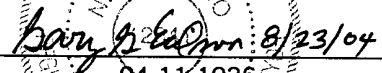
Surface Location

UL or lot No. <b>P</b>	Section <b>13</b>	Township <b>17-S</b>	Range <b>32-E</b>	Lot Idn	Feet from the <b>330</b>	North/South line <b>SOUTH</b>	Feet from the <b>330</b>	East/West line <b>EAST</b>	County <b>LEA</b>
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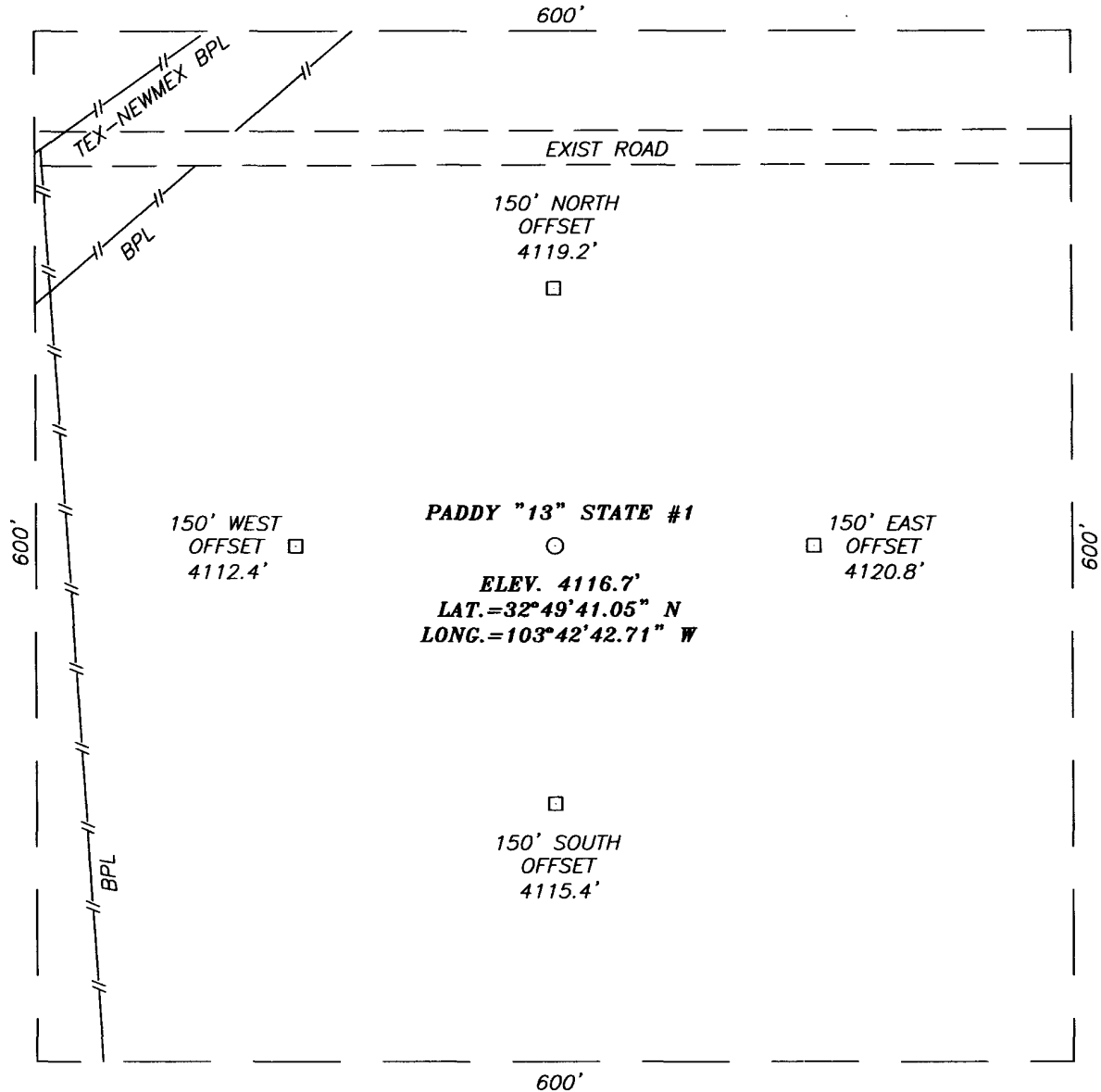
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres <b>40</b>	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

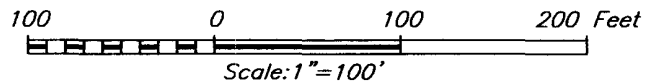
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=665523.6 N X=690902.2 E</p> <p>LAT.=32°49'41.05" N LONG.=103°42'42.71" W</p>				<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature</p> <p>NOLAN VON ROEDER Printed Name</p> <p>ENGINEER Title</p> <p>SEPTEMBER 2, 2004 Date</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>AUGUST 11, 2004 Date Surveyed</p> <p> Signature &amp; Seal of Professional Surveyor</p> <p>04.11.1026 Certificate No.</p> <p>GARY E. EDSON 12841</p>	

**SECTION 13, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,**  
 LEA COUNTY, NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF ST. HWY #529 AND CO. RD. #L-125 (DOG LAKE RD.) GO NORTH ON CO. RD. #L-125 FOR APPROX. 0.8 MILES TO CO. RD. L-125 (MESCALERO RD.) TURN LEFT ON CO. RD. #L-125 AND GO APPROX. 0.3 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (NE) AND GO APPROX. 0.3 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (EAST) AND GO APPROX. 0.3 MILES. PROPOSED LOCATION IS APPROX. 230' SOUTH.



**PATTERSON PETROLEUM, L.P.**

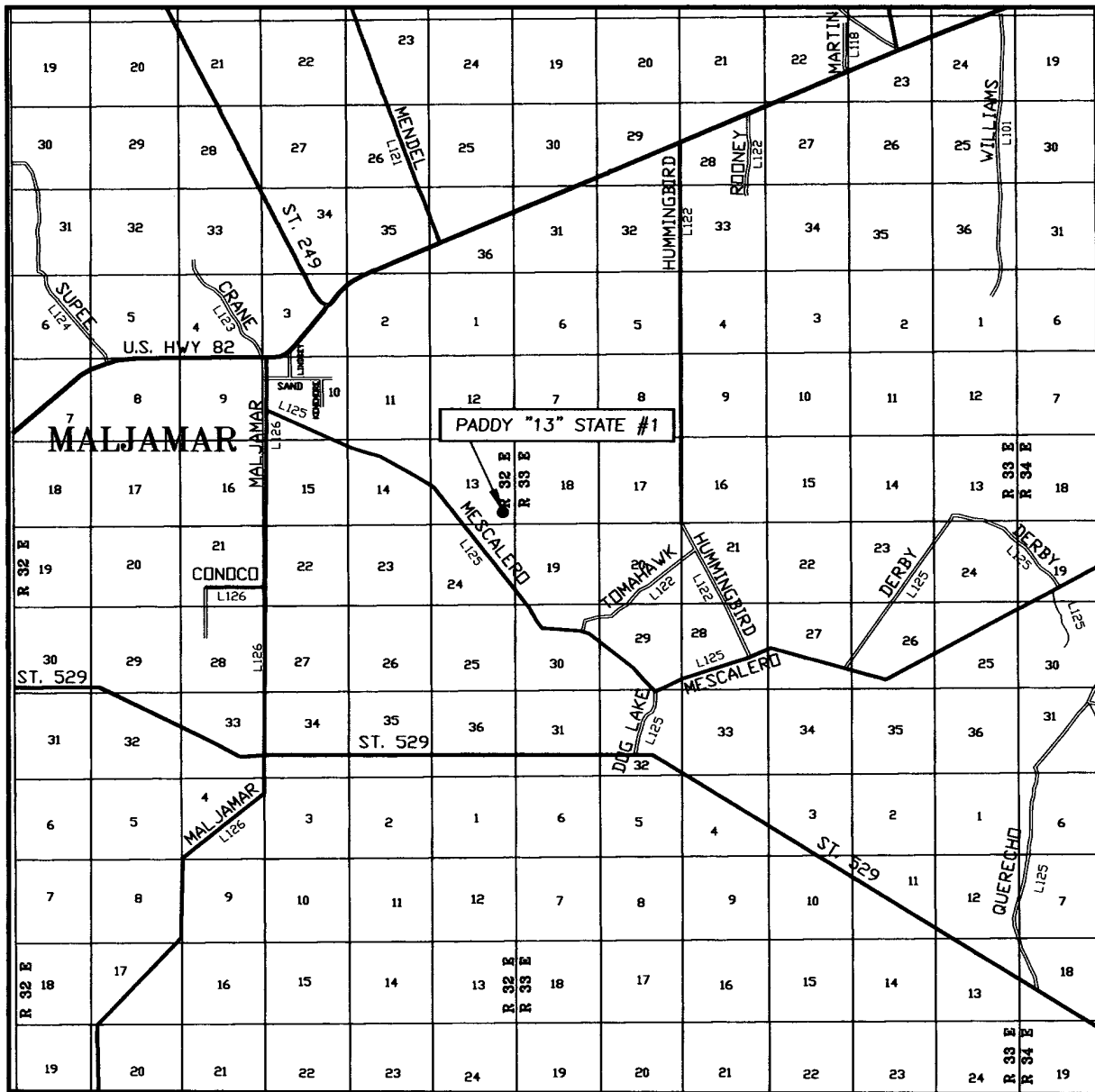
PADDY "13" STATE #1 WELL  
 LOCATED 330 FEET FROM THE SOUTH LINE  
 AND 330 FEET FROM THE EAST LINE OF SECTION 13,  
 TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,  
 LEA COUNTY, NEW MEXICO.

Survey Date: 08/11/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.1026	Dr By: J.R.
Date: 08/17/04	Disk: CD#10
04111026	Scale: 1"=100'



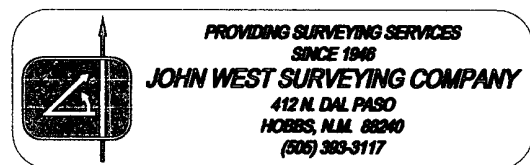
PROVIDING SURVEYING SERVICES  
 SINCE 1948  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO  
 HOBBS, N.M. 88240  
 (505) 383-3117

# VICINITY MAP

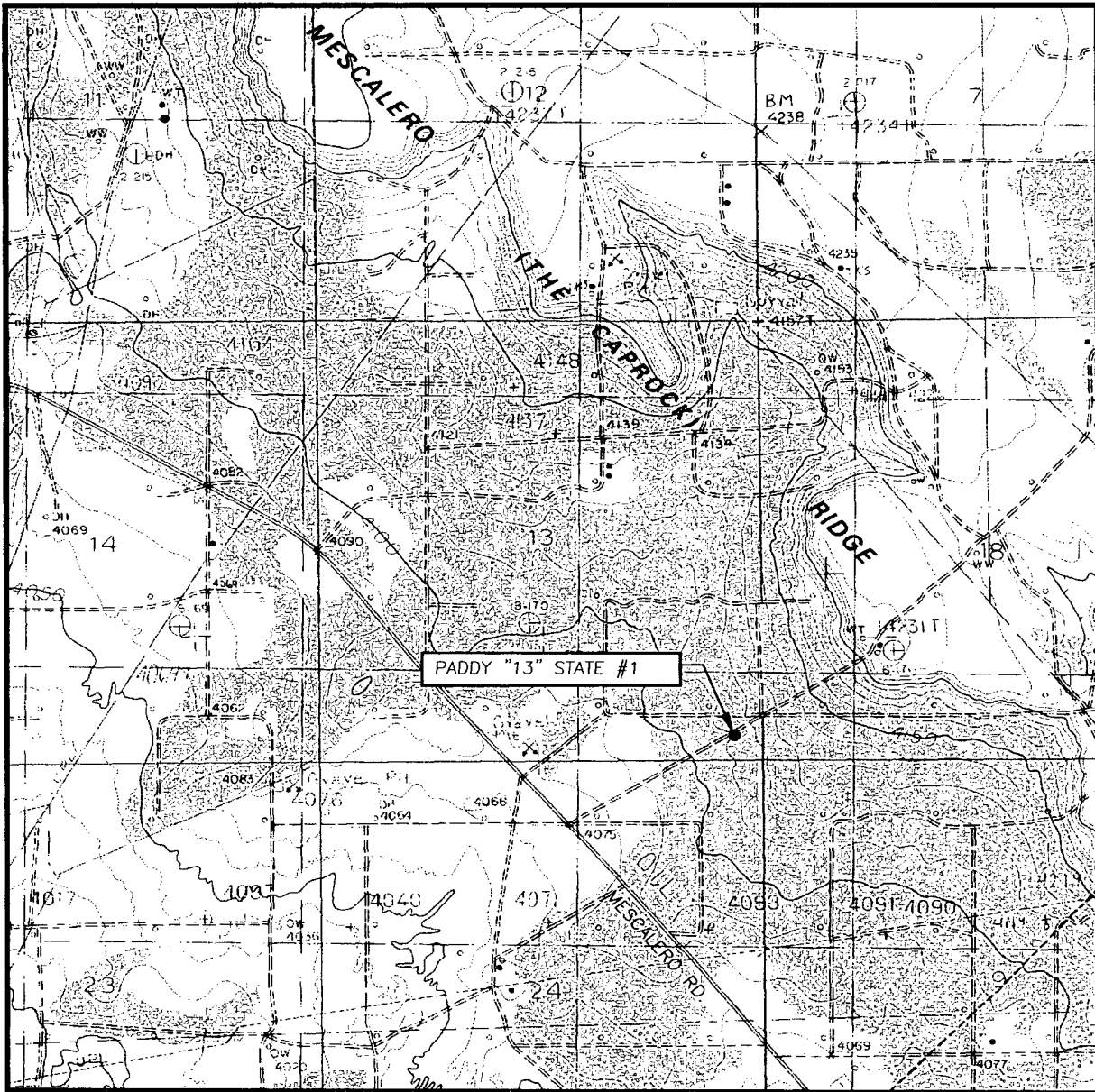


SCALE: 1" = 2 MILES

SEC. 13 TWP. 17-S RGE. 32-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 330' FSL & 330' FEL  
 ELEVATION 4117'  
 OPERATOR PATTERSON  
PETROLEUM, L.P.  
 LEASE PADDY "13" STATE



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 13 TWP. 17-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

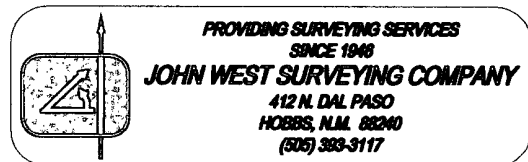
DESCRIPTION 330' FSL & 330' FEL

ELEVATION 4117'

OPERATOR PATERSON PETROLEUM, L.P.

LEASE PADDY "13" STATE

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





# 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 "13" State No. 1

Section 13

T-17-S

R-32-E

Lea County, New Mexico

#### CASING

9 5/8" at 500'

5 1/2" at 6,200'

DEPTH	MUD WT.	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0' - 1500'	8.4 to 9.0	28 to 40	No Control	5%	Fresh Water, Spud mud & paper
1500' - 5600'	10 to 10.3	28 to 33	No Control	1%	Brine water, paper, caustic
5600 - 6,200'	10 to 10.3	36 to 46	10 - 15 cc	< 5%	Salt Gel, Starch & Caustic

PATTERSON PETROLEUM LP  
PROPOSED CASING & CEMENTING PROGRAM

Paddy "13" State Well No. 1

9 5/8", 36 lb/ft, J-55 Surface Casing Set at 1500' - in a 12 1/4" Hole

Circulate to surface with :

Lead : 750 sx of HLC w/ 6% gel, 2% CCL + ¼ #/sk celloflake

Slurry Weight:	12.5 ppg
Slurry Yield:	1.95 cu.ft/sk
Water Requirement:	10.9 gal/sk

Tail: 250 sx of Class "C" w/ 1% CCL + ¼ #/sk celloflakes

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

5½", 17 lb/ft, J-55 Production Casing Set at 6,200' - in a 8 3/4" Hole

Desired TOC = surface

Lead : 900 sx of Class "C" Halliburton Lite + ¼ #/sk celloflake

Slurry Weight:	12.7 ppg
Slurry Yield:	1.84 cu.ft/sk
Water Requirement:	9.9 gal/sk

Tail : 400 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

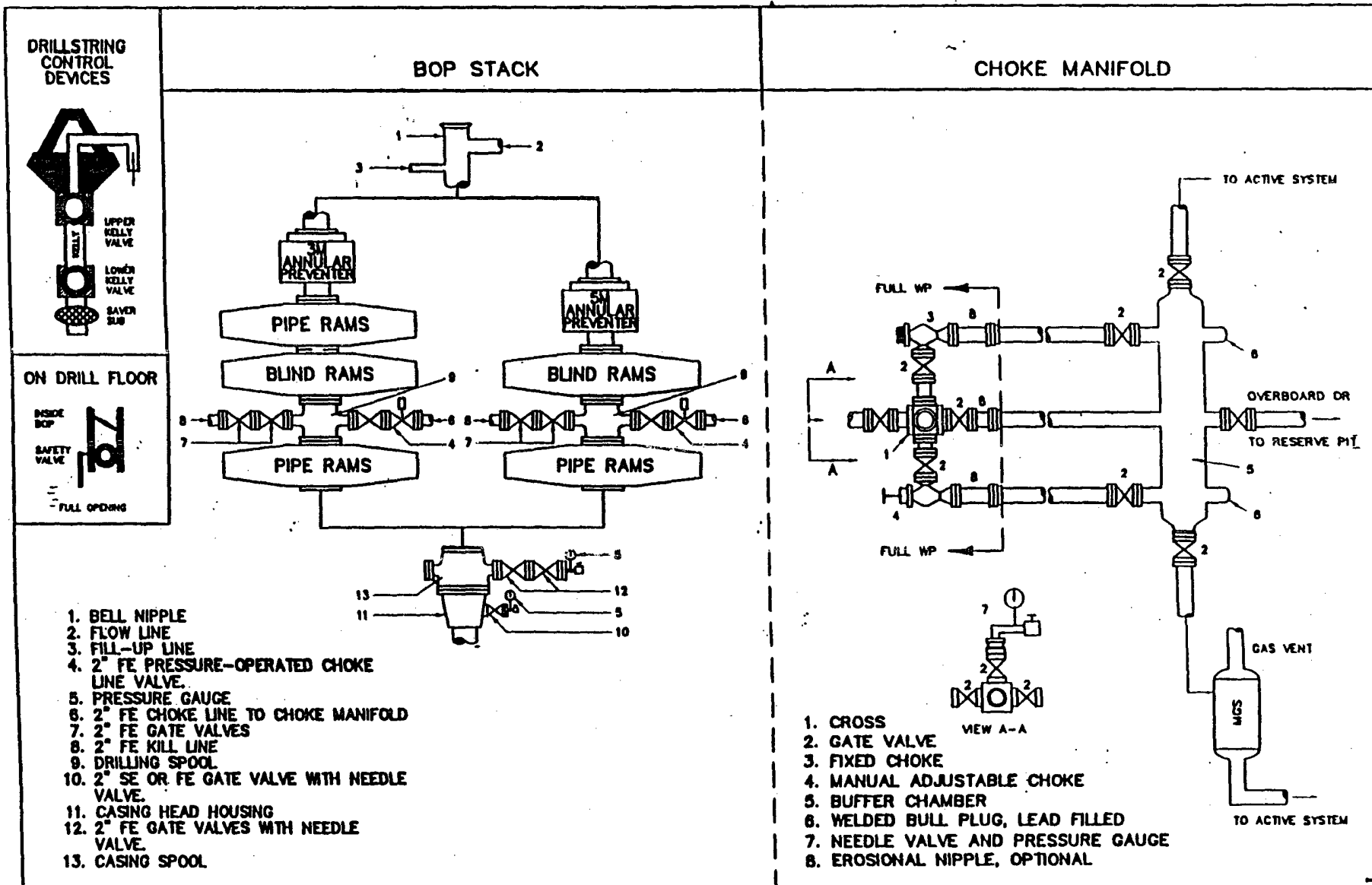


Fig. 2.5. Class 3 BOP and Choke Manifold.