

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 35602		⁴ API Number 30 - 025-37823
⁵ Property Name GEN. MONTCALM 25 STATE		⁶ Well No. 1
⁹ Proposed Pool 1 VACUUM; MORROW	⁹ Proposed Pool 2 VACUUM; ATOKA, WEST	⁹ Proposed Pool 3 LEAMEX; PADDOCK
⁹ Proposed Pool 4 CORBIN; ABO	⁹ Proposed Pool 5 CORBIN; WOLFCAMP, EAST	⁹ Proposed Pool 6 LEAMEX; PENN

⁷ Surface Location

UL or lot no. H	Section 25	Township 17-S	Range 33-E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 1260	East/West line EAST	County LEA
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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
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Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotar ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4088'
¹⁶ Multiple N	¹⁷ Proposed Depth 13,800'	¹⁸ Formation MORROW	¹⁹ Contractor 1200'	²⁰ Spud Date 08/01/2006
Depth to Groundwater 150'		Distance from nearest fresh water well 1200'		Distance from nearest surface water 50' TO HIGH MARK OF PLAYA LAKE
Pit: Liner: Synthetic <input checked="" type="checkbox"/> _____mils thick Clay <input type="checkbox"/>		Pit Volume: 15,000_bbls		
Closed-Loop System <input type="checkbox"/>		Drilling Method: 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"	9-5/8"	40#	4800'	1750	SURFACE
8-3/4"	5-1/2"	20#	13,800'	2200	4600'

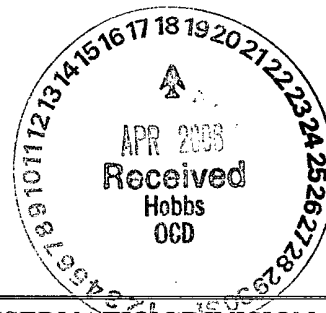
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

DRILLING FLUID SYNOPSIS ATTACHED.

BOP: SERIES 900, 5000# WP - SEE FIGURE 2.5 ATTACHED

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 ☐.

Printed name: NOLAN VON ROEDER

Title: ENGINEER

E-mail Address:

Date: 04/10/2006

Phone: 325/573-1938

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Conditions of Approval Attached ☐

PETROLEUM ENGINEER
APR 19 2006

Expiration Date:

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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 30-025-37823	Pool Code 86840	Pool Name VACUUM; MORROW (GAS)
Property Code 35602	Property Name GEN. MONTCALM 25 STATE	Well Number 1
OGRID No. 141928	Operator Name PATTERSON PETROLEUM, LP	Elevation 4088'

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	25	17-S	33-E		1980	NORTH	1260	EAST	LEA

Bottom Hole Location If Different From Surface

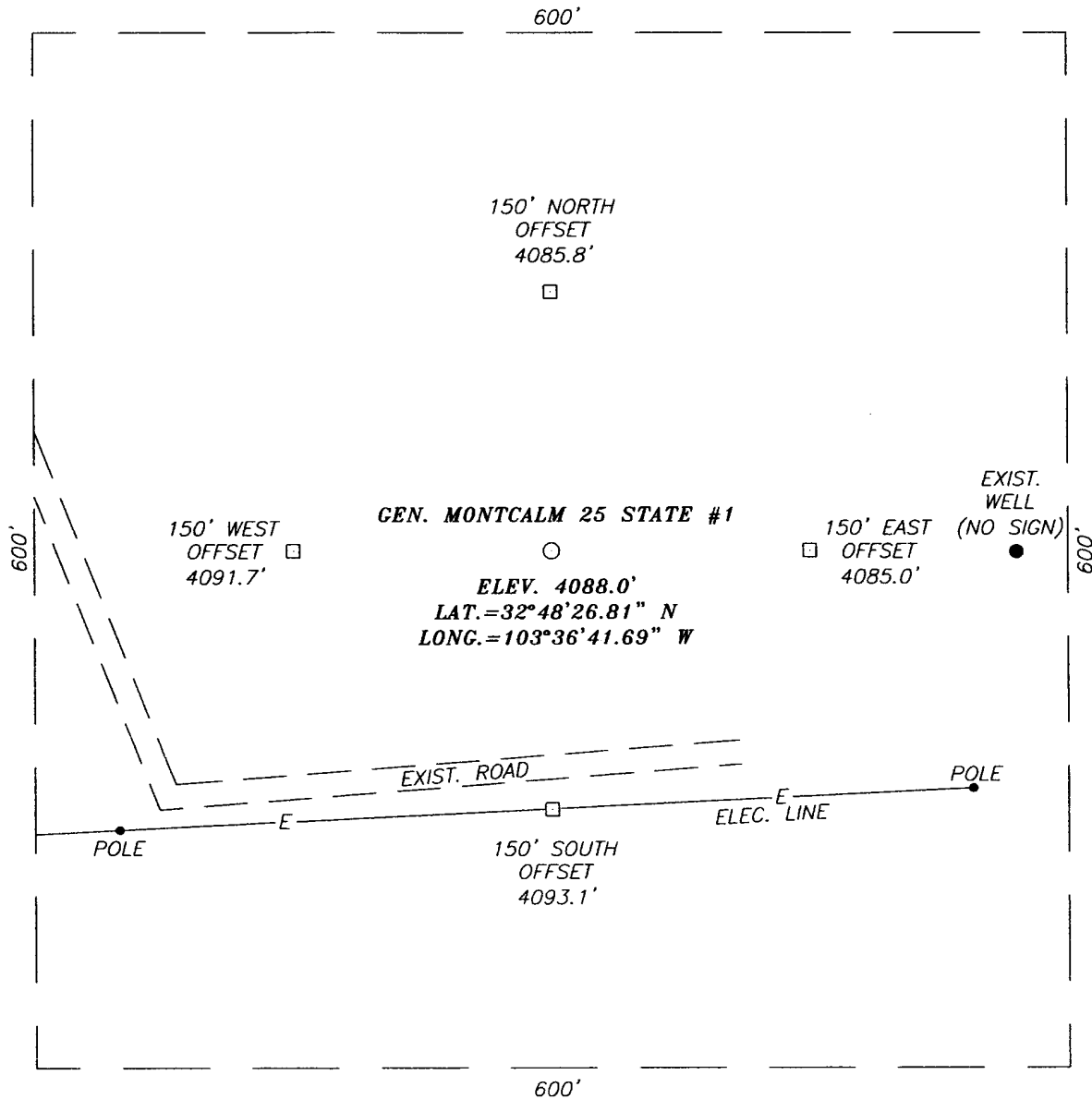
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

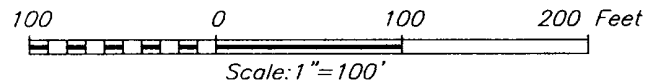
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=658217.4 N X=721759.3 E</p> <p>LAT.=32°48'26.81" N LONG.=103°36'41.69" W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a 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>Nolan von Roeder</i> 4/14/06 Signature Date</p> <p>Nolan von Roeder Printed Name</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>MARCH 2, 2006</p> <p>Date Surveyed LA</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Gary E. Edson</i> 3/13/06 06.11.0420</p> <p>Certificate No. GARY EDSON 12641</p>

SECTION 25, TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

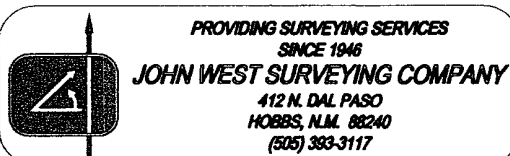
FROM THE INTERSECTION OF CO. RD. L-125 (DOG LAKE RD.) & CO. RD. L-125 (MESCALERO RD.) GO EAST ON MESACLERO ROAD APPROX. 3.96 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.25 MILES. TURN LEFT AND GO EAST APPROX. 250 FEET. THIS LOCATION IS APPROX. 125 NORTH OF ROAD.



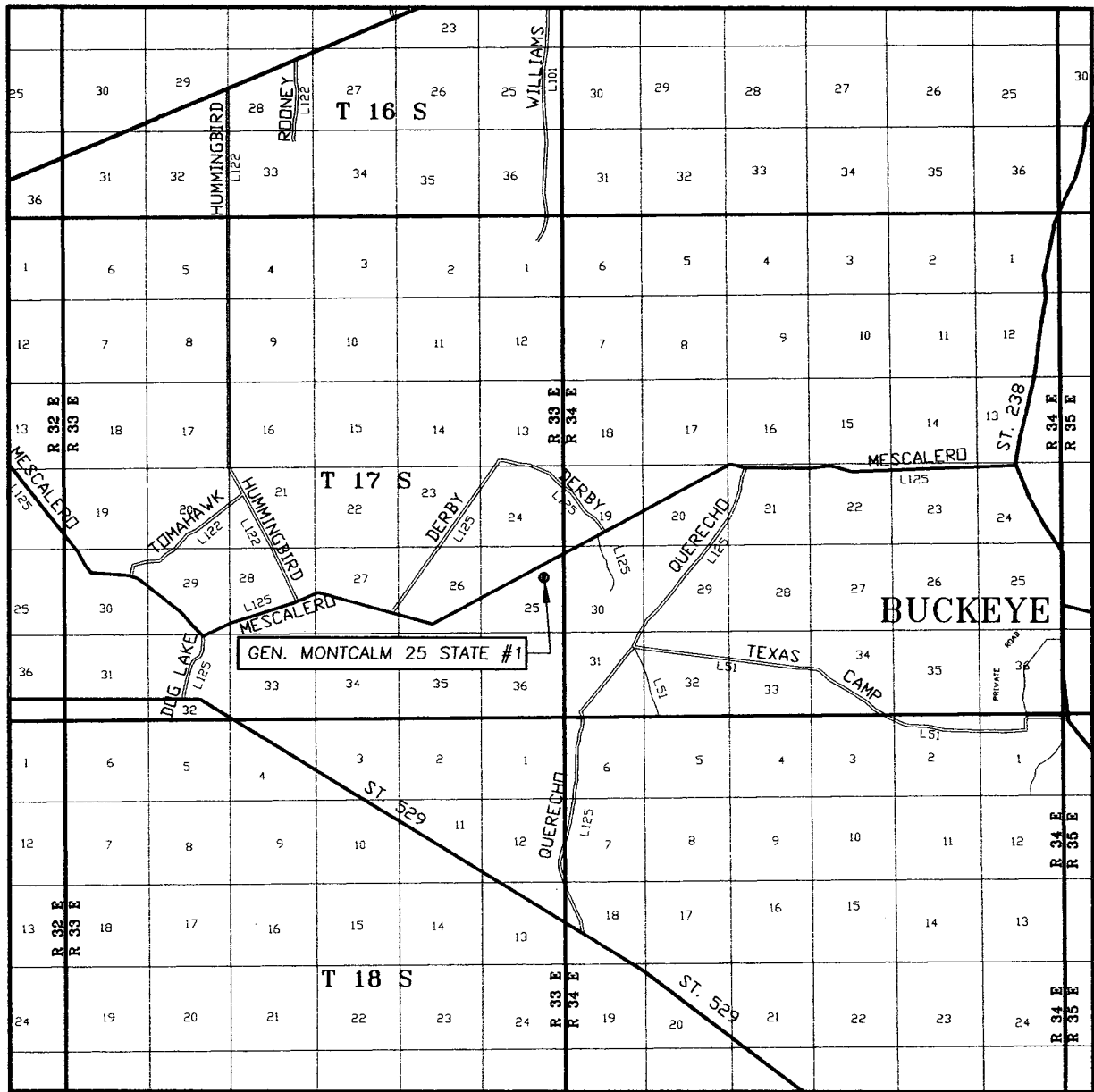
PATTERSON PETROLEUM, LP

GEN. MONTCALM 25 STATE #1 WELL
 LOCATED 1980 FEET FROM THE NORTH LINE
 AND 1260 FEET FROM THE EAST LINE OF SECTION 25,
 TOWNSHIP 17 SOUTH, RANGE 33 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 3/2/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.0420	Dr By: LA
Date: 3/8/06	Disk: CD#5
06110420	Scale: 1"=100'



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 25 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

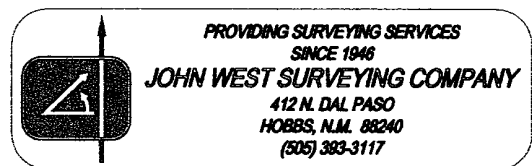
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FNL & 1260' FEL

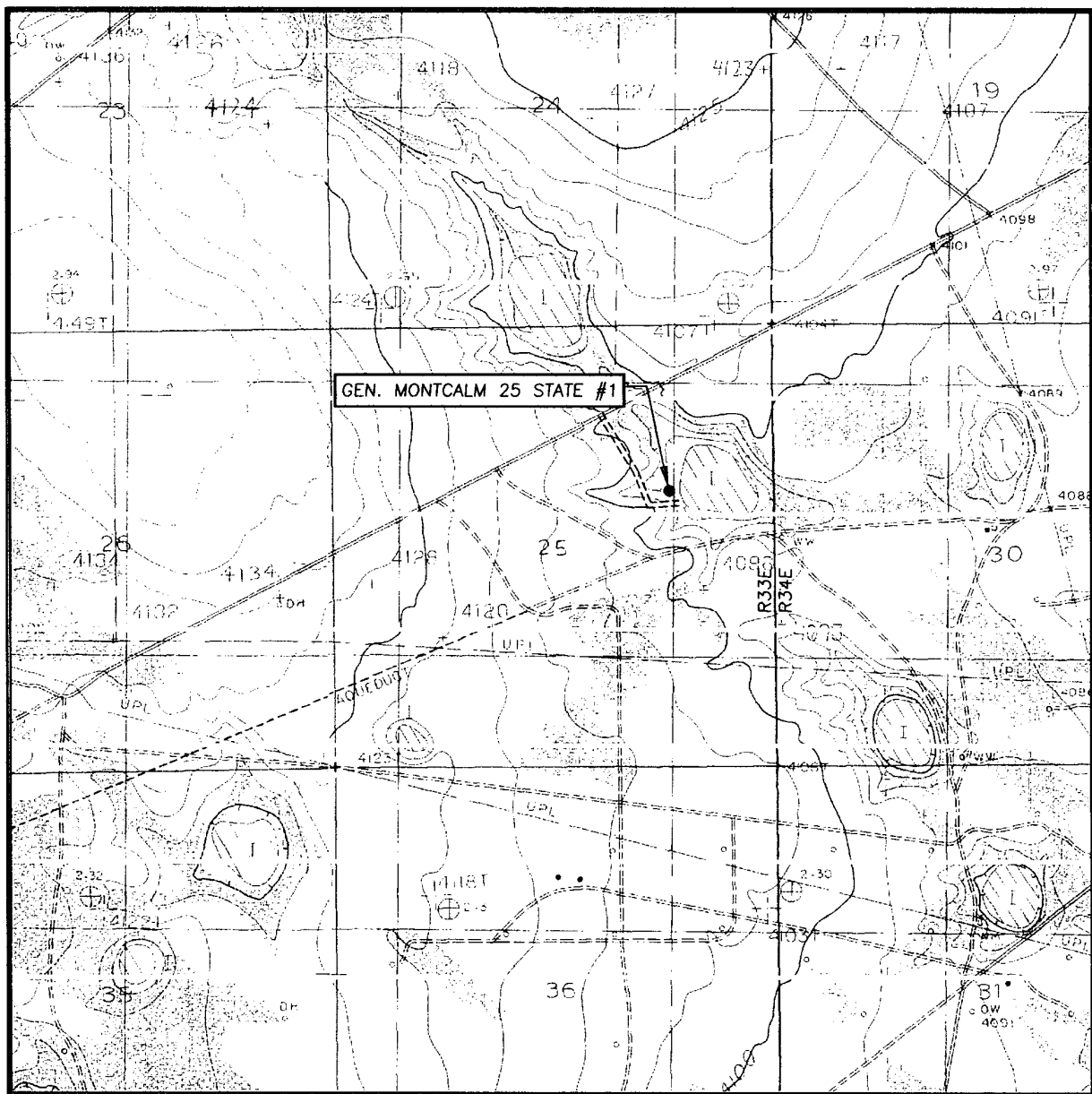
ELEVATION 4088'

OPERATOR PATTERSON
PETROLEUM, LP

LEASE GEN. MONTCALM 25 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
BUCKEYE, N.M. - 5'

SEC. 25 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

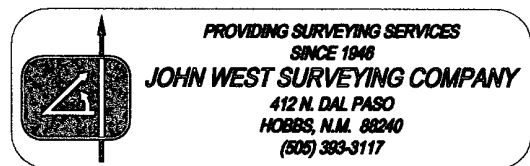
DESCRIPTION 1980' FNL & 1260' FEL

ELEVATION 4088'

OPERATOR PATTERSON
PETROLEUM, LP

LEASE GEN. MONTCALM 25 STATE

U.S.G.S. TOPOGRAPHIC MAP
BUCKEYE, 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

Gen. Montcalm 25 State No. 1

Section 25

T-17-S

R-33-E

Lea County, New Mexico

CASING

13 3/8" at 400'

9 5/8" at 4800'

5 1/2" at 13,800'

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' - 4800'	8.4 to 10.3	28 to 33	No Control	1%	Brine water, paper, caustic
4800 - 12,900'	8.4 to 9.2	28 to 30	No Control	1%	Cut-brine, paper & caustic
12,900 - 13,800'	10 to 10.5	36 to 46	10 cc or less	< 5%	Xanthan gum, starch, pac, & caustic

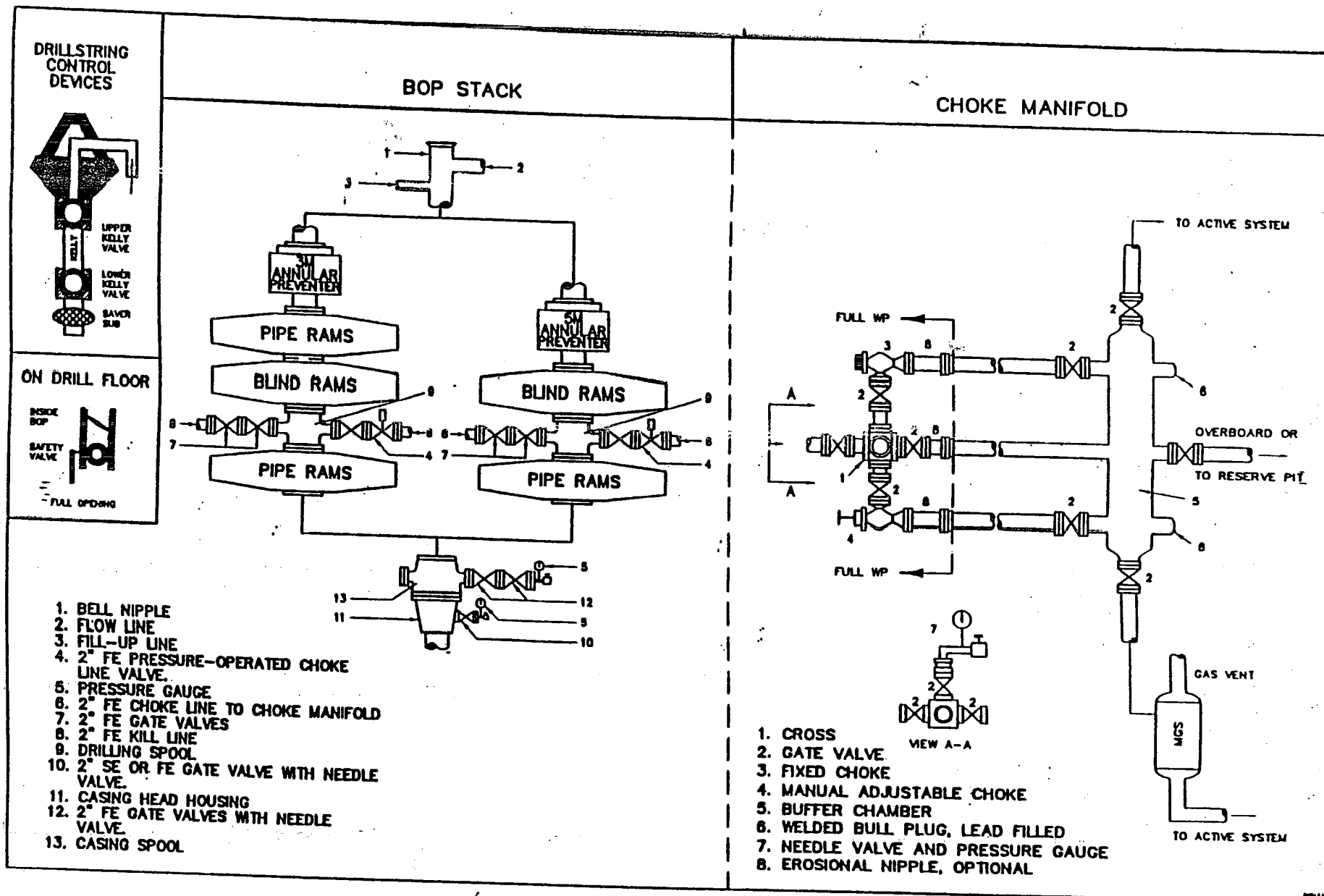


Fig. 2.5. Class 3 BOP and Choke Manifold.

PATTERSON PETROLEUM LP
PROPOSED CASING & CEMENTING PROGRAM

GEN. MONTCALM 25 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

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 13,800' - in an 8 3/4" Hole

Desired TOC = 4600'

1st Stage Lead : 800 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

GEN. MONTCALM 25 STATE 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

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State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: PATTERSON PETROLEUM LP Telephone: 325-573-1938 e-mail address: _____
Address: P.O. DRAWER 1416, SNYDER, TX 79550
Facility or well name: GEN. MONTCALM 25 STATE API #: 30-025-37823 U/L or Qtr/Qtr H Sec 25 T 17S R 33E
County: LEA Latitude 32°48'26.81" Longitude 103°36'41.69" NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

<u>Pit</u>	<u>Below-grade tank</u>
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>15,000</u> bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) <u>100 feet or more</u> (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) <u>No</u> (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	<u>Less than 200 feet</u> (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
Ranking Score (Total Points) 20	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 04/10/2006

Printed Name/Title NOLAN VON ROEDER, ENGINEER

Signature 


Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title PETROLEUM ENGINEER

Signature 

Date: APR 10 2006

 The sender of this message has requested a read receipt. [Click here to send a receipt.](#)

Mull, Donna, EMNRD

From: Phillips, Dorothy, EMNRD
To: Mull, Donna, EMNRD
Cc:
Subject: RE: Financial Assurance Requirement
Attachments:

Sent: Wed 4/19/2006 8:37 AM

All have blanket bonds and do not appear on Jane's list.

From: Mull, Donna, EMNRD
Sent: Wednesday, April 19, 2006 8:36 AM
To: Phillips, Dorothy, EMNRD
Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Chesapeake Operating Inc (147179)
EOG Resources Inc (7377)
EverQuest Energy Corp (212929)
Yates Petroleum Corp (25575)
Marathon Oil Co (14021)
Melrose Operating Co (184860)
Patterson Petroleum LP (141928)
COG Operating LLC (229137)
Range Operating New Mexico (227588)
Capataz Operating Inc (3659)

Please let me know. thanks Donna