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. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 S. St. Francis Dr. Revised March 17, 1999

Form C-101

Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

1220 S. Franci	E NM 875	S	anta Fe. NN	Fe, NM 87505					Lease - 5 Copies				
										NDED REPORT			
APPLI	APPLICATION FOR PERMIT TO DRILL, RE-EN Operator Name and Address								EPEN, PLUGBACK, OR ADD A ZONE OGRID Number				
DATTERS	ON DETE	ROLEUM LI	•	1d Aduress	3				141928				
			R, TX 79550						30-025-		Number		
3 Proper	7 59de		MOHICAN "28	8" STAT	⁵ Prop E	perty Name				1	⁶ Well 1	No.	
,					⁷ Surfa	ace Locatio	n						
UL or lot no.				Feet from the 1980	North/South line Feet from SOUTH 1330		Feet from the	East/West line		County LEA			
		8]	Proposed B	ottom I	Hole Lo	ocation If I)iffere	ent Froi	m Surface				
UL or lot no.	Section	Township	Range	•		South line	Feet from the	East/West line		County			
WI Idea VACUUI	it; M; MORF		roposed Pool 1	J				¹⁰ Proposed Pool 2					
H Work	Type Code		12 Well Type Cod	la .	Т	13 Cable/Rotary		1 12	Lease Type Code		15 Groun	d Level Elevation	
	N	1	G			ROTARY			S S			4168'	
¹⁶ M	ultiple NO		¹⁷ Proposed Dept 13,800'		1	¹⁸ Formation MORROW		4	Contractor RSON-UTI DRI	LG	²⁰ Spud Date G 09/29/2003		
			²¹ P	ropose	d Casin	ng and Cem	ent P	rogram					
Hole S	ize	Casin	ng Size	Casing weight/foot Setting Depth					Sacks of Cement Estimated TOC			stimated TOC	
17-1/2"		13-3/8"		48# 400)'	500		SURFACE		RFACE		
12-1/4"		9-5/8"		40#	40# 4,800'		0'	1750			SURFACE		
8-3/4"		5-1/2"		17# 13,80		00' 1000		1000	900		0'		
	,								<u> </u>				
22 Describe the	e proposed p	orogram. If th	is application is	to DEEPE	EN or PLU	G BACK, give	the data	on the pre	sent productive zor	ne and pr	roposed ne	w productive zone.	
DRILLIN BOP: S	IG FLUID ERIES 90	SYNOPSI 00, 5000# V	am, if any. Use a S ATTACHED VP - SEE FIG IMENTING IN) URE 2.5	5 ATTAC	HED							
Permit Expires 1 Year From Approval Date Unless Drilling Underway							31						
²³ I hereby certify that the information given above is true and complete to the						е	OIL CONSERVATION DIVISION						
best of my knowledge and belief. Signature:					Approv	Approved by:							
Printed name: NOLAN VON ROEDER					Title	DETECTION ENGINEER							
Title: ENGINEER						THE.							
							Approval Date: 2 4 2003 Expiration Date: Conditions of Approval:						
3_3,5,6						ı	Attached						

DISTRICT I P.O. Box 1980, Hobbs, NM 68241-1960

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 68211-0719

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

P.O. BOX 2088, SANTA FR, N.M. 67504-2088

DISTRICT IV

Dedicated Acres

320

Joint or Infill

Consolidation Code

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

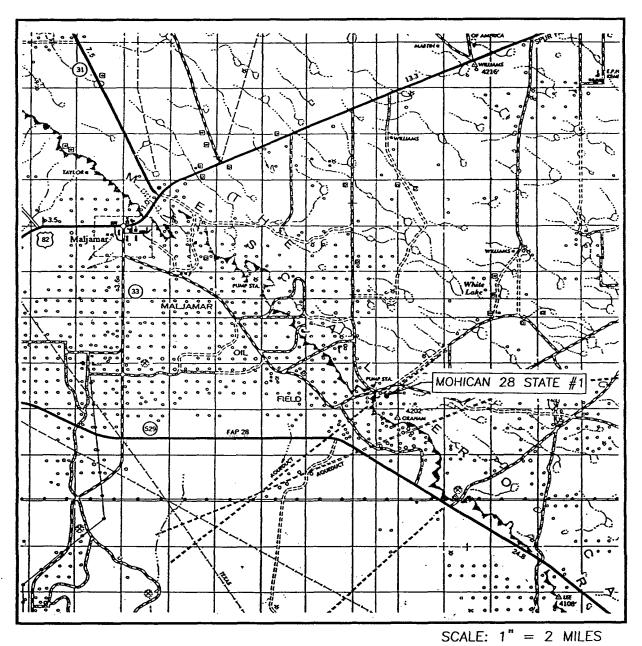
APP N 1	·· ···		b .1 a.1.		 	D1 M	····		
API Number	_	Pool Code Wildcat, Pool Name							
30-025-364 Property Code	19	86840 Vacuum; Morrow							
Property Code	I ,			Property Nam	ie		Well Number		
32975		MOHICAN 28 STATE						1	
OGRID No.	Operator Name						Elevation		
141928	PATTERSON PETROLEUM, LP						4168'		
Surface Location									
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
J 28	17 S	33 E		1980	SOUTH	1330	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	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OD A NOW-CTANDARD LINT HAC BEEN ADDROVED BY THE DIVISION

Order No.

OPERATOR CERTIFICATION I haroby cortify the the information contained harvin is frue and complete to the best of my knowledge and belter. Signature Nolan von Roeder Printed Name Engineer Title 09/22/03 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notice of actual sewence made by me or wader my superviseen, and that the some is true and certail to the best of my belter. SEPTEMBER B, 2003 Date Surveyor LMP September B, 2003
Min PHOFESSION WAR AND THE WAR

VICINITY MAP

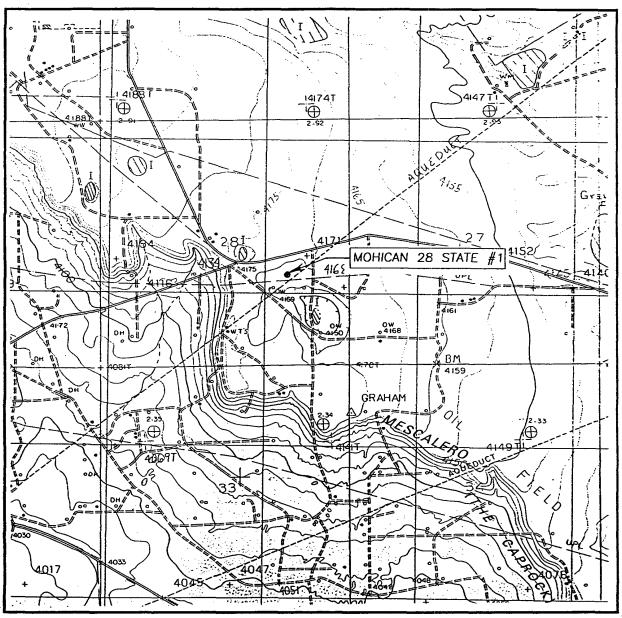


SEC. 28 T	WP. <u>17-S</u> RGE. <u>33-E</u>	_
SURVEY	N.M.P.M.	_
COUNTY	LEA	
DESCRIPTION	1980' FSL & 1330' FE	<u>.L</u>
ELEVATION	4168'	_
OPERATOR PA	TTERSON PETROLEUM,	<u>L</u> F
LEACE	MOHICAN 28 STATE	

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

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

SEC. <u>28</u> TW	P. <u>17-S</u> RGE. <u>33-E</u>					
SURVEY	N.M.P.M.					
COUNTY	LEA					
DESCRIPTION 1980' FSL & 1330' FEL						
ELEVATION	4168'					
OPERATOR PATTERSON PETROLEUM, LP						
LEASEI	MOHICAN 28 STATE					
U.S.G.S. TOPOGRAPHIC MAP DOG LAKE, N.M.						

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117



DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM LP

Mohican "28" State No. 1

Section 28 T-17-S R-33-E Lea County, New Mexico

CASING

13 3/8" at 400' 9 5/8" at 4800' 5½" 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%	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

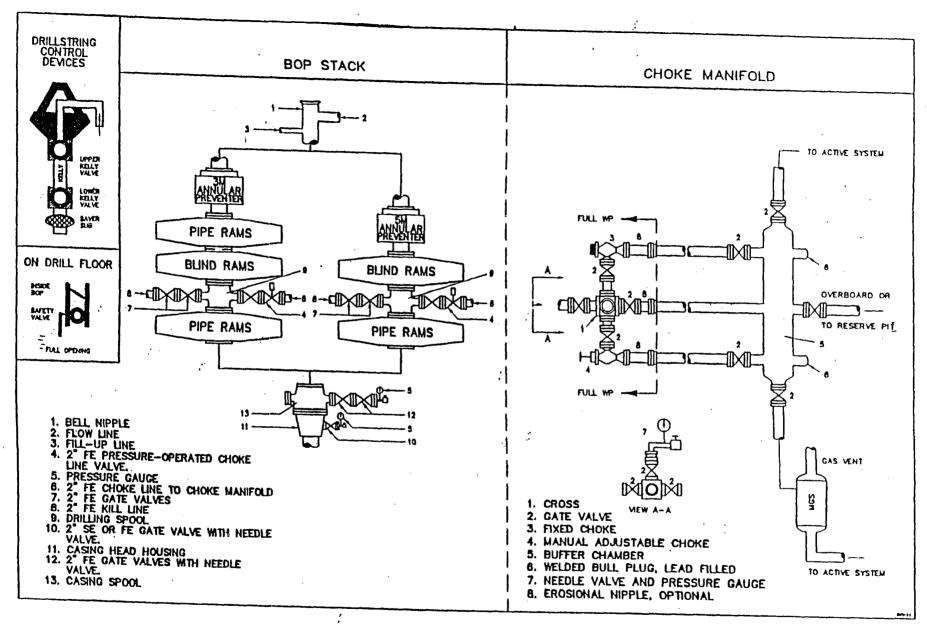


Fig. 2.5. Class 3 BOP and Choke Manifold.

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM

MOHICAN "28" 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 121/4" 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

5½", 17 lb/ft, N-80 & P110 Production String Casing Set at 13,800' - in an 8 3/4" Hole

Lead:

700 sx of Halliburton Light H + 5% salt + 3/10% HR-7 retarder

Desired TOC = 9000'

Slurry Weight:

12.7 ppg

Slurry Yield:

1.95 cu.ft/sk

Water Requirement:

10.48 gal/sk

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