District I PO Box 1980, Hobbs, NM 88241-1980 District II

PO Drawer DD, Arteaia, NM 88211-0719

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-101 Revised February 10, 1994 Instructions on back

District III 1000 Rio Brazos I District IV				Sant	PO Box 2 ta Fe, NM 8			<b>y</b> Suot	DIL TO F	State	ate District Office Lease - 6 Copie Lease - 5 Copie
PO Box 2088, San										AMEN	DED REPORT
APPLICA	TION	FOR PE	RMIT	TO DRI	ILL, RE-EN	TER, DE	EPF	N. PLUGB	ACK	OD AT	DD A ZONE
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		er 1416	יות זוות 3		•				'		API Number
Snyo	der, TX		)						,		25-36047
_ :	767		J	Bump Po	36" Stat						' Well No.
	<del>, , ,</del>	<del></del>		-	<sup>7</sup> Surface	Location					
UL or lot no.	Section 36	Township 17-S	Range 33-E	Lot Idn	Feet from the 1880	North/South South		Feet from the	East/W	West line	County
		<sup>8</sup> Pr	roposed	Bottom	Hole Locat	tion If Dif	fara	nt From Sur		<del></del>	Lea
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South	line	Feet from the		West line	T
	<u> </u>	<u> </u> '					-	1		Yesi wa	County
Vacui	um; Mor		eed Pool 1					" Propor	sed Pool 2	2	<u> </u>
	Im,	TOW									
" Work T	Type Code		12 Well Type	e Code	<sup>13</sup> Cable	e/Rotary	т—	14 # Tune C.			
N	·		G		1	tary		" Lease Type Co	de	1	ad Level Elevation
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No	0		13,800	•	Morro		Pat	<b>"Contractor</b> "tterson ~ U		1	Spud Date 1/15/02
			21	Propos	sed Casing a	nd Cemen	+ Pr	'Otrara			1/15/02
Hole Siz			of 2156	Casir	ing weight/foot	Setting De	epth		f Cement		Estimated TOC
17-1/		13-3/			48 <i>‡</i>	400		50			Surface
12-1/		9-5/	/8"	<u> </u>	40 <i>#</i>	4800	)'_	175			Surface
8-3/	<u>/4"</u>	7"			26#	13,800	) [	160		+-	4800'
										+-	-1000
22 Describe the p	proposed pr	meram. If th	-innlicati	DEF	THE PA			he present productiv			
Dril BOP:	lling f : Seri	fluid sy ies 900,	ynopsis , 5000#	s attacl	CONTROLLER SECRET II IV	• 2.5 atta	ache	e present production	7282	REC NO	new productive
<sup>23</sup> I hereby certify	y that the infe	Formation gives	ermit Ex Date I	xpires 1 Unless I	1 Year Frem Drilling Und	n Annroval		CONSERVAT	ycb yes	191 2005	101/01/03/03/03/03/03/03/03/03/03/03/03/03/03/
of my knowledge Signature:	and belief.	A	//	ue and comp.	iete to the best	OIJ	L C	ONSERVAT	TION	DIVISI	ON
Printed name:	La n	~ K	=	$\leq$	AF	pproved by:			- C ::-	<del></del>	
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	Engi	ineer				pproval Date:		F	Expiration	a Date:	
Date: 10/25/02 Phone: 915/573-1938					-1938 <b>C</b> (	onditions of Appro	<del>~20</del>	02			

Attached



#### **DRILLING FLUID SYNOPSIS**

#### PATTERSON PETROLEUM LP

Bump Po "36" State No. 1

Section 36 T-17-S R-33-E Lea County, New Mexico

CASING					
13 3/8"	at	400'			
9 5/8"	at	4800'			
7"	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'	10 to 10.3	28 to 30	No Control	1%	Brine water, paper,caustic
4800 - 12,500'	8.4 to 9.2	28 to 30	No Control	1%	Cut-brine, paper & caustic
12,500 - 13,800'	9.2 to 10.5	36 to 46	10 cc or less	< 5%	Xanthan gum, starch, pac, & caustic



#### PATTERSON PETROLEUM LP

## PROPOSED CASING & CEMENTING PROGRAM

#### BUMP PO "36" 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

## 7", 26 lb/ft, N-80 & P110 Production String Casing Set at 13,800' - in an 8 3/4" Hole

1st Stage Lead: 600 sx of 35/65 Poz H + 5% salt + 6% gel + 1/4 #/sk celloflakes

Desired TOC = 9000'

Slurry Weight:

12.4 ppg

Slurry Yield:

2.13 cu.ft/sk

Water Requirement:

11.81 gal/sk

1st Stage Tail: 250 sx of Class H w/ 6/10% Gasblock + 2/10% antifoamer

and 3/10% retarder

Slurry Weight:

16.4 ppg

Slurry Yield:

1.09 cu.ft/sk

Water Requirement:

5.49 gal/sk

#### PATTERSON PETROLEUM LP

#### PROPOSED CASING & CEMENTING PROGRAM

#### BUMP PO "36" STATE WELL NO. 1

Run 7" DV Tool @ ± 9200' from surface & cement as follows:

2nd Stage Lead: 500 sx of 35/65 Poz H + 5% salt + 6% gel + 1/4 #/sk celloflakes

Desired TOC = 4800'

Slurry Weight: 12.4 ppg
Slurry Yield: 2.13 cu.ft/sk
Water Requirement: 11.81 gal/sk

2nd Stage Tail : 250 sx of 50/50 Poz H w/ 2% gel + 2/10% dispersant + 2/10% antifoam

and 3/10% retarder

Slurry Weight: 14.2 ppg Slurry Yield: 1.33 cu.ft/sk Water Requirement: 5.24 gal/sk



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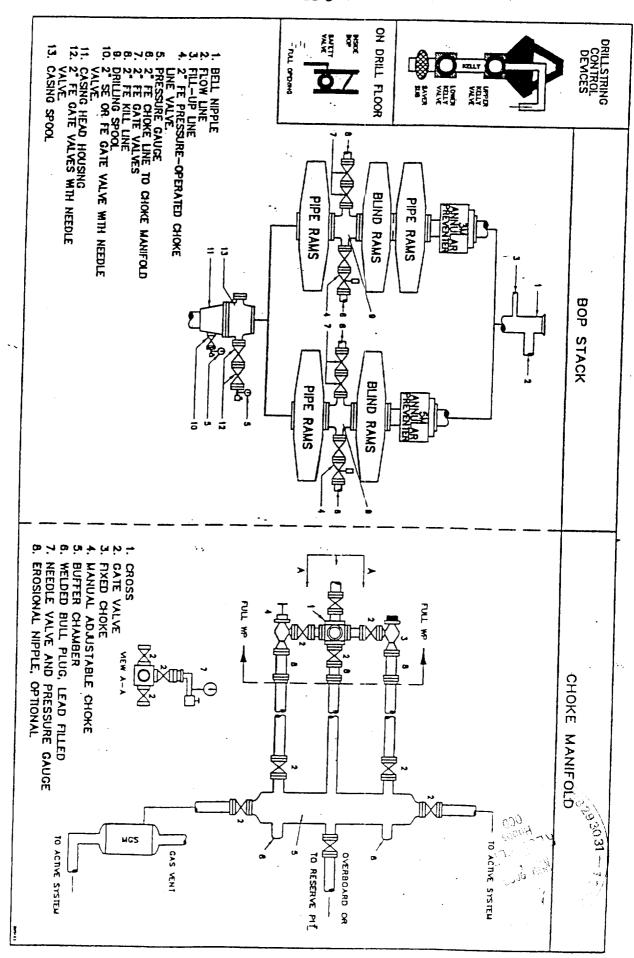


Fig. 2.5. Class 3 BOP and Choke Manifold.

C. L.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

#### 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

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

DISTRICT III

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

Fee Lease - 3 Copies

API Number	Pool Code	Pool Name		
30-025-36	C47 86840	Vacuum; Morrow		
Property Code	Pro	perty Name	ell Number	
30767	BUMP P	O "36" STATE	1	
OGRID No.	Ope	erator Name	Elevation	
141928	PATTERSON	PETROLEUM LP	4101'	

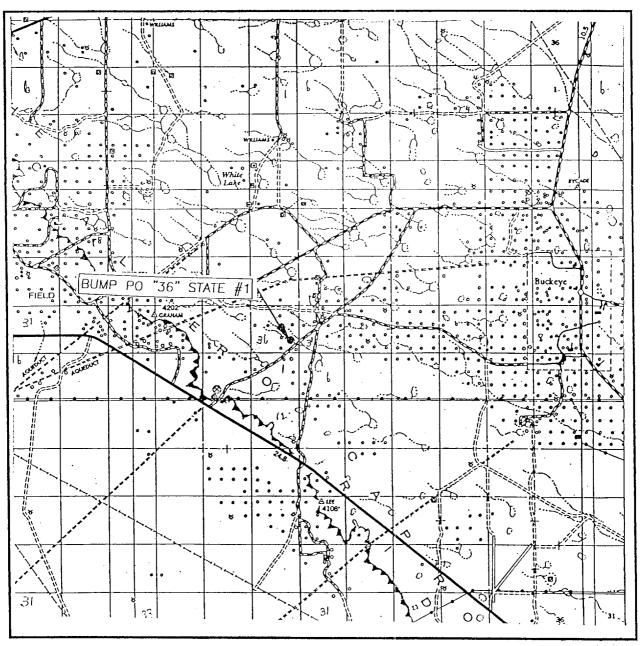
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	36	17-S	33-E		1880	SOUTH	660	EAST	LEA
	<u> </u>		Bottom	Hole Loc	cation If Diffe	rent From Sur	face	L	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	or Infill   Co	nsolidation	Code Or	der No.				
	1	I							

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 the the information contained herein is true and complete to the
	best of my knowledge and belief.
	John Karley
	Nolan von Roeder
	Printed Name Engineer
	Title 10/25/02 000
	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
ç <del>~ 6</del> 60'—	supervison, and that the same is true and correct to the best of my belief.
	Date Surveyed William L.A. Signatura W. Seal for Chin.
	Professional Surveyor
	mold & Ton to look a
	0144 6001 13289 W/M 19 10 12210 2
	Certaficate No. RONALD SEIDSON 3239
	18000000000000000000000000000000000000

# VICINITY MAP

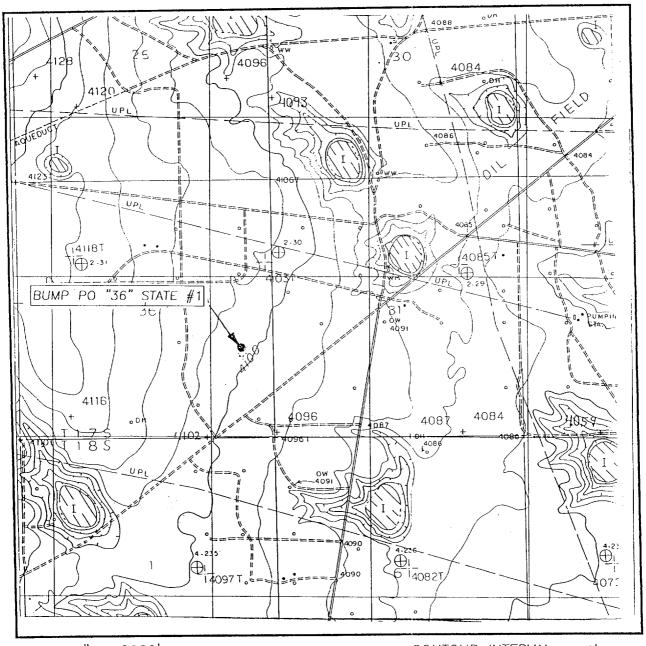


SCALE: 1" = 2 MILES

SEC. 36 T	WP. <u>17-S</u> RGE.	33-E
SURVEY	N.M.P.M.	***************************************
COUNTY	LEA	····
DESCRIPTION	1880' FSL &	660' FEL
ELEVATION	4101'	
OPERATOR_P	ATTERSON PET	ROLEUM LF
LEASE	BUMP PO "36	5"

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

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 1
BUCKEYE, N.M.

SEC. <u>36</u> 7	WP. <u>17-S</u> RGE. <u>33-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION	1 <u>1880' FSL &amp; 660' FEL</u>
ELEVATION_	4101'
	PATTERSON PETROLEUM LF
LEASE	BUMP PO "36"
	POGRAPHIC MAP

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

PHONE: 210-496-2466 FAX: 210-496-9595



October 29, 2002

Mr. Chris Williams New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

> RE: APD for the Patterson Bump Po 36 State #1

S/2 of Section 36, T-17-S, R-33-E, Lea County

Dear Mr. Williams:

Olsen Energy, Inc. is the record title holder of New Mexico State Lease No. V-3349, which covers the drilling unit for the subject well. Effective July 1, 2002, Olsen entered into a Term Assignment with Mitchel E. Cheney covering the subject lands as to all depths below 5000' only. It is my understanding that Mr. Cheney has transferred the Term Assignment to BP America Production Company, Patterson Petroleum, LP and Phillips Petroleum Company and that these three parties have entered into a mutually acceptable Joint Operating Agreement naming Patterson as operator. If Patterson meets all of NMOCD's permit requirements, please approve same for the drilling of the subject well.

Please do not hesitate to contact me if you have any further questions concerning this matter, and we appreciate your help.

Yours very truly,

OLSEN ENERGY, INC

David Schneider Vice President