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

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

1220 S. St. Fr	ancis Dr., S	santa Fe, NM	8/303		Santa	110, 14141	07303				
APPI	ICAT	ON FOR				ENTER	, DEEPE	N, PLUGBA	CK, O	RAD	D A ZONE
Operator Name and Address PATTERSON PETROLEUM LP P.O. DRAWER 1416 SNYDER, TX 79550							OGRID Number 141928 30 - 025-36942				
Property Code Property N DUNCAN "32" S						Name STATE COM		•		® We	II No. 1
343	83		Daniel 1			¹⁰ Proposed Pool 2					
⁹ Proposed Pool 1 VACUUM; MORROW					VACUUM; ATOKA, WEST						
					⁷ Surface	Location	า		<u></u>	-	
UL or lot no.	Sec3tion	Township	Range	Lot I			orth/South line	Feet from the		East/West line County	
Н	32	17-S	34-E	<u> </u>	22		NORTH	660	EAST LE		LEA
		l		1	om Hole Loca			1	Fred/II	Tant lima	Country
UL or lot no.	Section	Township	Range	Lot I	dn Feet fro	om the N	forth/South line	Feet from the	East/W	Vest line	County
		L		Ad	lditional We	ell Inforn	nation		•		
	Type Code N		12 Well Type Co	de		e/Rotary FARY	1	⁴ Lease Type Code S		15 Gro	und Level Elevation 4068'
	ultiple		17 Proposed Dep	th		mation	19 Contractor				²⁰ Spud Date
ì	VO		13,800			RROW	PATT	ERSON-UTI DRLG			12/20/04
Depth to Grou	ndwater	140'		Distance	e from nearest fres	sh water well	4000'	Distance from nearest surface water NONE			ater NONE
Pit: Liner:	Synthetic	🔀 _12mil	s thick Clay	Pit Vol	ume: 15,000	bbls Drilling Method:					
Close	d-Loop Syst	tem 🗌				Fresh Water X Brine X Diesel/Oil-based Gas/Air					
			21	Propos	sed Casing a	and Cem	ent Progra	m			
Hole S	ize	Casi	ng Size	Casing	g weight/foot	Sett	ng Depth	Sacks of C	ement		Estimated TOC
17-1/	2"	13.	-3/8"		48#			500)	SURFACE	
12-1/		1	5/8"		40#	1					SURFACE
8-3/4	4"	5-	1/2"		17#	13				8000'	
				 ;		<u> </u>				+	920212223
²² Describe th	ne proposed	program. If	this application is	s to DEEPI	EN or PLUG BAG	CK, give the	data on the pre	sent productive zor	ne and prop	posed nex	Aproductive zone.
Drilling fl BOP: Ser	uid synopsi ies 900, 500	s attached. 00# WP – See	am, if any. Use a	ed.	sheets if necessar	y.				1213141516	93,59000 131,5000 100 May 14
			r From Ap og Underv								
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 ☐.					OIL CONSERVATION DIVISION						
					Approved	Approved by:					
Printed name:	NOLAN	VON ROED	er 1//			Title PE7	ROLEUM	-	1		
Title: ENGI			- Furni			Approval	- 111	ENGINEER	Expiration	Date:	
		dern@natener	rgv.com			NOV		12	,		
E-mail Address: vonroedern@patenergy.com Date: 10/28/04 Phone: 325/573-1938						Conditions of Approval Attached					

State of New Mexico

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

Energy, Minerals and Natural Resources Department

DISTRICT II

DISTRICT III

1301 W. GRAND AVENUE, ARTESIA, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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 Pee Lease - 3 Copies

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FE, NW 57505 Pool Name Pool Code API Number 8694 30-025-3694 Well Number Property Name **Property Code DUNCAN "32" STATE COM** 1 Operator Name Elevation OGRID No. PATTERSON PETROLEUM, L.P. 4068 141928

Surface Location Feet from the North/South line Feet from the East/West line UL or lot No. Lot Idn County Section Township Range **EAST** 2245 **NORTH LEA** Н 17-S 34-E 660 32 Bottom Hole Location If Different From Surface Section Lot Idn Feet from the North/South line Feet from the East/West line County

UL or lot No. Township 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	N APPROVED BY THE DIVISION	
GEODETIC COORDINATES NAD 27 NME Y=652761.5 N X=732798.7 E LAT.=32'47'32.06" N LONG.=103'34'32.81" W	OPERATOR CERTIFICATION I hereby certify the the informatic contained herein is true and complete to the best of my knowledge and betief. Signature	
	Signature Go f. Izgero / O Printed Name Athorney-In Fact Title //-/0-04 Date SURVEYOR CERTIFICATION	
	Signature & Seal of Soll	of my
	San Surveyor 1/0 7	/07 2841



4510 Lamesa Hwy., Snyder, TX 79549 Phone: 325-573-1938 • Fax 325-573-1939

DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM LP

Duncan "32" State Com No. 1

Section 32 T-17-S R-34-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

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM

DUNCAN "32" STATE COM 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

51/2" , 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 = 8000'

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

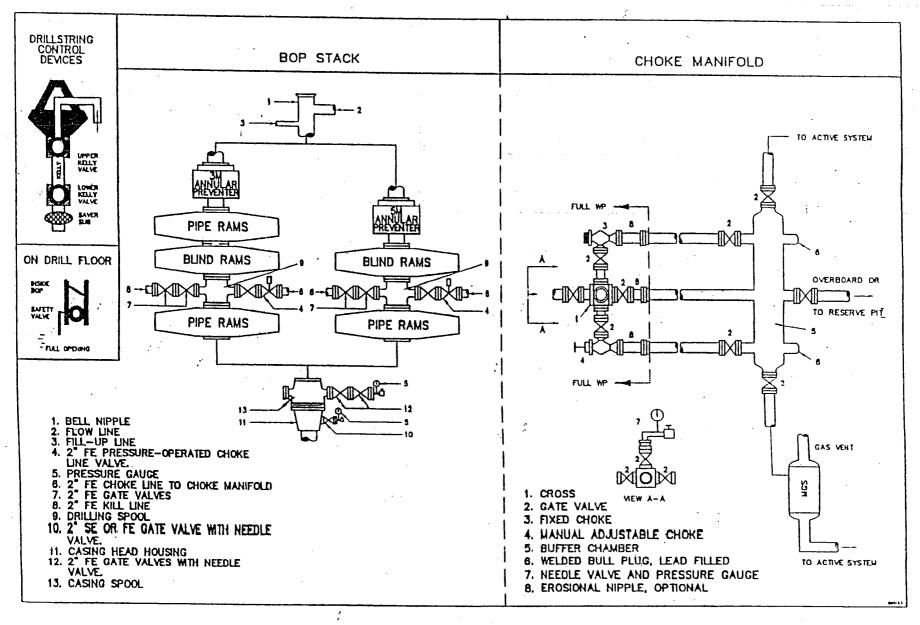


Fig. 2.5. Class 3 BOP and Choke Manifold.

SECTION 32, TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY. NEW MEXICO 600' BURGANDY O & G SOUTH VACUUM UNIT #10 -150' NORTH OFFSET LEA CO. RD. #51 (TEXAS CAMP RD., 4068.9 DUNCAN "32" STATE COM #1 150' WEST 150' EAST OFFSET □ 0 □ OFFSET 4069.3' 4067.8' ELEV. 4068.5' LAT.=32°47'32.06" N LONG.=103°34'35.81" W 150' SOUTH **OFFSET** 4069.6 600' DIRECTIONS TO LOCATION FROM THE INTERSECTION OF LEA CO. RD. #125 100 100 200 Feet (QUERECHO RD.) AND LEA CO. RD. #51 (TEXAS CAMP RD.) GO EAST ON CO. RD. #51 FOR APPROX. 1.1 MILES. PROPOSED LOCATION IS Scale:1"=100 APPROX. 150' SOUTH. PATTERSON PETROLEUM, L.P. DUNCAN "32" STATE COM #1 WELL LOCATED 2245 FEET FROM THE NORTH LINE AND 660 FEET FROM THE EAST LINE OF SECTION 32, TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO. PROVIDING SURVEYING SERVICES SINCE 1948 JOHN WEST SURVEYING COMPANY Survey Date: 11/3/04 Sheet Sheets of 412 N. DAL PASO

HOBBS, N.M. 88240

(505) 393-3117

W.O. Number: 04.11.1358 | Dr By: J.R.

Disk: CD#10

Date: 11/9/04

Rev 1:N/A

Scale:1"=100

04111358

VICINITY MAP

		N.G.P.L.									Λ		
	R MARTIN	23	24	19	20	21	22	23	24	19 88	Elipson Se Se	21	:
RDDNEY	27	26	VILLIAM Ligi	30	29	28	27	26	25	30	29	28	
62II	34	35	36	31	32	33	34	35	36	31	32	33	
	3	2	1	6	5	4	3	5	1	6	5	4	
	10	11	12	7	8	9	10	11	12	7	8	9	
	15	14	_	전 18 전 전	17	16	15 ME	14 SCALERD	37, 83 8 34 B	R 36 E	17	16	
	22	23/25/25/25/25/25/25/25/25/25/25/25/25/25/	24	\$ P. P. 13	CLE BY	21	22	L125 23	24	19	20	21	
	27	8	25	30	29	28	27 I	²₅ BUCK	es EYE	BUCKE	29 E	28	
	34	35	36	31	151 32	TEXAS	34 CAND	35	38 38	31	32	33	34
	3	2	1	DUN 6	NCAN "32	" STATE	COM #1	L5] 2	1	N. C.	5	4	
	10	100	N QUERECHIN	LIES	8	9	10	11		100 7 100 7 101	\\	9	
	15	14	13	18	17	16	15	14	13	18	17	16	
													oxed

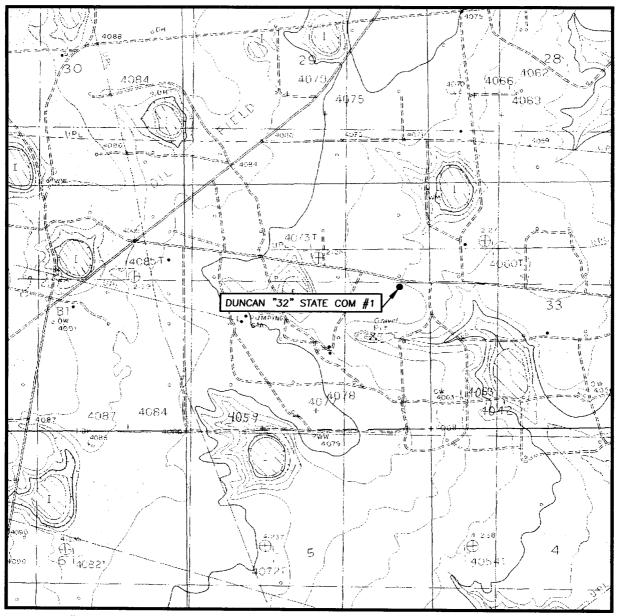
SCALE: 1" = 2 MILES

SEC. 32 11	NP. <u>17-S</u> RGE. <u>34-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
DESCRIPTION	2245' FNL & 660' FEL
ELEVATION	4068'
OPERATOR	PATTERSON PETROLEUM, L.P.
LEASE DUN	CAN "32" STATE COM





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

BUCKEYE, N.M.

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

3EU. 32	IWP. <u>_I</u>	<u>7-5</u> K	GE.	34-1	<u> </u>
SURVEY_		N.M.P.	М.		
COUNTY_		LEA			
DESCRIPT	ΓΙΟΝ <u>2245</u>	5' FNL	&	660'	FEL
ELEVATION 4068'					
OPERATO	R PE	PATTE TROLE	RSO UM,	DN L.P.	
LEASE	DUNCAN	"32" 5	STA	TE CO	М
U.S.G.S.	TOPOGRA	PHIC N	ИAР	,	



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