NSL 3/22/99

410 N. Loraine, Suite B Midland, Texas 79701 (915) 685-1414 • Fax 685-1133

February 26, 1999



Mike E. Stogner Chief Examiner New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Request for Administrative Approval of an Unorthodox Location for the Patterson Petroleum, Inc., Tomahawk St. 19 #1,to be Located 2,616' FNL & 1,148' FEL of Section 19, T-17-S, R-34-E, Lea County, New Mexico

Dear Mr. Stogner:

Patterson Petroleum, Inc., hereby requests administrative approval of the captioned. The subject location was derived by the use of extensive 3-D seismic data and analysis thereof. This location was determined, in the opinion of our geologic and geophysical staff and Phillips Petroleum's staff, to be the best location within the subject Section 19 to encounter economic recoverable reserves. We are drilling this well pursuant to a farmout agreement with Phillips. Enclosed for your review is our geologic write-up along with our Morrow and Cisco structure maps. The geologic information supplied herewith was prepare by our Geologist, Truitt Matthews. Truitt may be reached at (214) 369-2020 if you have any questions concerning same.

The subject location is at an unorthodox location, but only as to interior location. We are not moving toward the outside lease lines; therefore, it is my understanding no offset waver letters or notices are required for approval. Patterson, through it's farmout from Phillips, has all of the subject Section 19, T-17-S, R-34-E plus much of the adjacent acreage under lease. To evidence same I am enclosing a copy of the title opinion we had prepared covering said Section 19. Also enclosed is a land plat indicating the Patterson/Phillips Farmout acreage and off set owner/operators to our location. We have filed with the NMOCD's Hobbs office the enclosed C-101, C-102, BOP, drilling fluid, casing and cementing information. An original and one copy of the application package are enclosed for your review and file.

The subject well is to be drill to a depth of 13,600' as an Atoka/Morrow test in the N. Vacuum Pool. The Pool Rules for same require 320 acres, with wells located 1,650' from the short side and 660' from the long side. We are also permitting the subject well as a Wolfcamp (Gas) Wildcat; for which the rules call for 320 acres. We are designating the E/2 of Section 19 as our pool unit. Secondary possibilities from which we may encounter productive intervals are the Paddock (Wildcat 40 acre oil), Abo (N. Vacuum 40 acre oil), Wolfcamp (Wildcat 40 acre oil), the Cisco (Vacuum 40 acre oil or gas).

Please let me know you decision concerning this matter. Should you have any question or need further information do not hesitate to call, my toll free phone number is 1-800-470-4200.

Sincerely,

Joe Fitzgerald Land Manager

MEMORANDUM

RE:	Location Exception Patterson Petroleum Inc. – Tomahawk St. 19#1 PTD 13,600' 2616' FNL & 1148' FEL, Sec. 19, T17S-R34E Lea County, New Mexico
DATE:	February 24, 1999
FROM:	Truitt Matthews, Petroleum Geologist
TO:	Michael Stogner, NMOCD

Please find enclosed the two structure maps, T/Morrow Lime and T/Cisco Leamex as supplemental to this brief geological discussion requesting a location exception for an Atoka/Morrow test (PTD 13,600') in Sec. 19, T17S-R34E (X = 726935, Y = 662896).

The Tomahawk Prospect is primarily a result of the interpretation of a 3D seismic shoot conducted in 1994. This combination structural stratigraphic trap lies along a dominant N-S trending ridge as evidenced by 3D seismic mapping on several deep horizons and subsurface mapping of the limited well control (Figs.). The primary objectives are the Atoka/Morrow clastics and the Pennsylvania Cisco carbonates, with the Paddock, Abo, and Wolfcamp as good secondary targets.

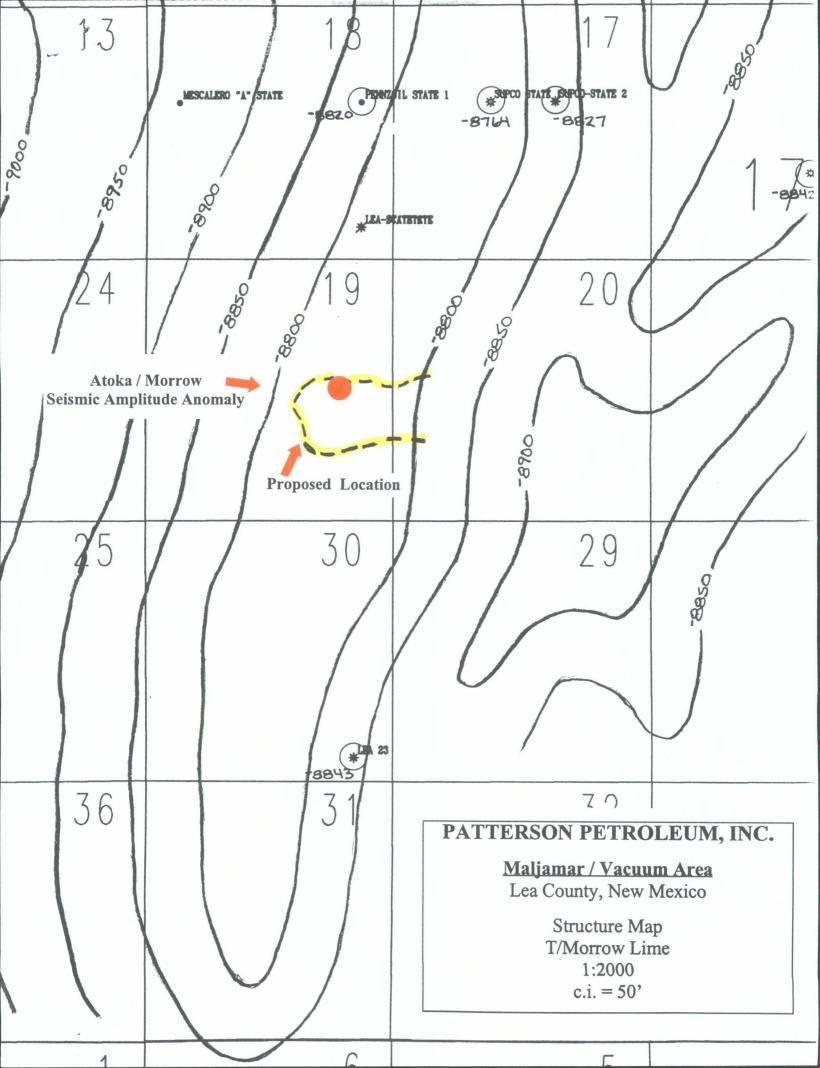
The potential for production from the Atoka/Morrow section is noted from seismic amplitude mapping showing the possible occurrence of sands overlying the N-S trending structure in a trapping position.

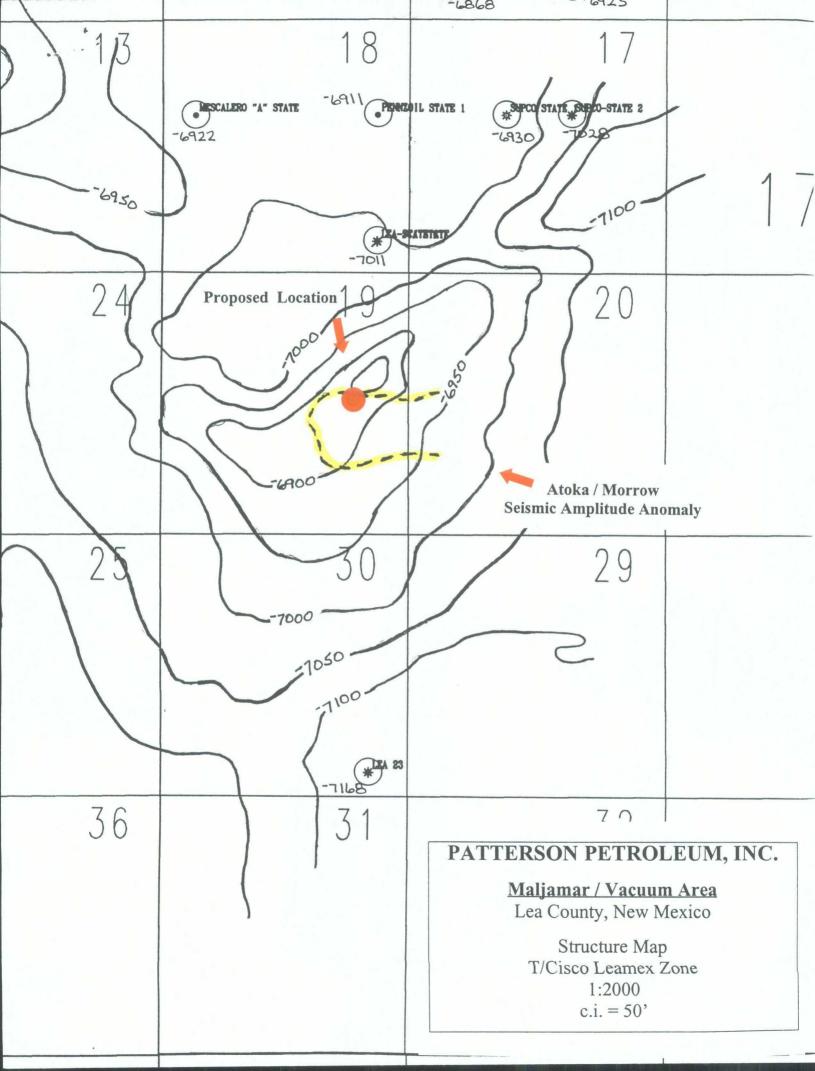
Production in the Cisco is from phylloid algal mounds and grainstone shoals. Seismic amplitude mapping of the Cisco horizon allowed for the definition of a lowstand shelf margin equivalent to the Leamex (Cisco) Field (1,342,662 BO + 2 BCFG), 2 $\frac{1}{2}$ miles west of the proposed location. The structure exists due to mound growth and its position on the shelf.

It is felt that a legal location would result in a significant (20'-30') loss in structure at the Cisco level and would take us out of the Atoka/Morrow seismic amplitude anomaly, therefore resulting in the potential loss of reserves which could not be produced from any current orthodox location. Based upon the detailed interpretation of the 3D seismic data volume and subsurface mapping by both geological and geophysical personnel, it is believed that the best chance for recovering economic reserves on this prospect exists at the proposed unorthodox location. If I can be of further assistance, please feel free to call.

Encls.

بر است ا





COTTON, BLEDSOE, TIGHE & DAWSON

A PROFESSIONAL CORPORATION ATTORNEYS AT LAW

500 W. ILLINOIS SUITE 300 MIDLAND, TEXAS 79701-4337

P.O. BOX 2776 ZIP 79702-2776

TELEPHONE (915) 684-5782 FAX (915) 682-3672 1415 LOUISIANA SUITE 2100 HOUSTON, TEXAS 77002-7351 TELEPHONE (713) 759-9281 FAX (713) 759-0458

email: therd@cbtd.com

January 13, 1999

<u>No. 9987</u>

Patterson Petroleum, Inc. 410 North Loraine, Suite B Midland, Texas 79701

TEVIS HERD

OF COUNSEL OF COUNSEL BOARD CERTIFIED OIL, GAS AND MINERAL LAW TEXAS BOARD OF LEGAL SPECIALIZATION ALSO LICENSED IN NEW MEXICO

.

Attn: Mr. Joe Fitzgerald

ORIGINAL TITLE OPINION RE: State of New Mexico Lease No. B-4118-1 covering the following described lands located in Lea County, New Mexico:

Township 17 South, Range 34 East, N.M.P.M.

Section 19: Lots 1 (34.30 acres), 2 (34.42 acres), 3 (34.54 acres), 4 (34.66 acres), E/2 W/2, E/2, containing 617.92 acres, more or less.

Gentlemen:

For the purpose of rendering an original title opinion covering the captioned lease and lands, we have examined the following:

ABSTRACTS

1. Abstract of Title No. 7240 certified by Schutz Abstract Co., Inc., as covering the records in the office of the Commissioner of Public Lands of the State of New Mexico affecting the captioned lease and lands from inception of the records to December 23, 1998, at 8:00 a.m., containing 47 pages.

2. Abstract of Title No. 99-102 certified by Elliott & Waldron Title & Abstract Co., Inc., as covering the records of Lea County, New Mexico, affecting the captioned lands as to the mineral estate only from inception of the records to December 21, 1998, at 7:00 a.m., containing 46 pages.

FEE TITLE TO OIL AND GAS

Based upon our examination of the foregoing abstracts, it is our opinion that title to the oil and gas estate in the captioned land is vested in the State of New Mexico, subject to State Lease No. B-4118-1, analyzed below.

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EFFECTIVE OIL AND GAS LEASE

Lease No:	B-4118-1.
Date of Lease:	April 10, 1935.
Recorded:	Unrecorded, and recording is not necessary.
Lessor:	State of New Mexico.
Original and Present Record Lessee:	Phillips Petroleum Company.
Land Covered:	T-17-S, R-34-E Section 19: All Section 20: W/2 and SE/4 Section 21: N/2 SW/4 Section 29: All Section 30: All Section 31: NW/4 NE/4 T-18-S, R-34-E Section 5: NW/4, W/2 NE/4, SE/4 NE/4 Section 6: NE/4 NW/4, NE/4 containing 2,956.58 acres, more or less.
Interest Covered:	Full interest lease.
Primary Term:	Five (5) years with right to extension of additional five years upon payment of double rental, which was accomplished.
Royalty:	1/8 on oil and gas measured in the manner prescribed in the lease.
Shut-In Gas Royalty:	None provided for.
Rentals:	\$2.00 per acre per year (\$5,913.16) and <u>payable regardless of production.</u>
Status of Lease:	Maintained by rental payments up to the next rental paying date, April 10, 1999, and also maintained by production.
Outstanding Overriding Royalties or Production Payments:	None.
Assignment:	By Partial Assignment of Record Title dated August 29, 1983, approved by the Commissioner of Public Lands effective October 4, 1983, recorded Book 367, Page 440, Oil and Gas Records, Phillips Petroleum Company assigned record title to the lease to Phillips Oil Company as to the lands now contained in Lease B-

4118-1.

2

Phillips Oil Company merged into Phillips Petroleum Company by corporate merger effective August 1, 1985, reflected at Book 451, Page 113, Misc. R. of Lea County, New Mexico.

OIL AND GAS LEASEHOLD ESTATE

Phillips Petroleum Company All of 7/8 WI

LIENS AND ENCUMBRANCES

None reflected of record.

SURFACE RIGHTS

Captioned lands are subject to Agricultural Lease GR-1210 to Williams & Son Cattle Company, P. O. Box 30, Maljamar, New Mexico 88264, which expires September 30, 2001. This Agricultural Lease is subordinate to your Oil and Gas Lease and you have the absolute right to enter and conduct drilling operations. However, Para. 11 of the Oil and Gas Lease makes the lessee liable for injury to the range, livestock, growing crops or improvements of the agricultural lessee caused by your operations, and this clause creates absolute liability and you must pay for such damages whether your operations are negligent or unreasonable.

EASEMENTS

Right-of-Way No. 17032 dated April 29, 1968, issued to Natural Gas Pipeline Company of America crosses portions of Lots 1 and 3, E/2 W/2 and SW/4 SE/4 Section 19.

Right-of-Way No. 22052 dated March 28, 1933, issued to Phillips Petroleum Company crosses Lot 4 of Section 19.

Right-of-Way No. 22729, which expires November 21, 2020, issued to Lea County Electric Cooperative, Inc., crosses Lot 1, N/2 NE/4 and NE/4 NW/4 Section 19.

Right-of-Way No. 22885, which expires August 6, 2021, issued to Leaco Rural Telephone Cooperative, Inc., crosses Lot 4, SE/4 SW/4 and N/2 SE/4 Section 19.

TITLE REQUIREMENTS

1.

We have not examined any farmout or other agreement from Phillips Petroleum Company to Patterson Petroleum, Inc.

REQUIREMENT

In the event that you desire our analysis of your agreement with Phillips Petroleum Company, please submit the same for our examination.

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COMMENTS

This opinion does not cover such matters as actual acreage, location upon the ground, boundaries, or conflicts of boundary lines or survey lines, since these matters can be determined only by an actual ground survey. We assume that prior to commencing drilling operations you will have the captioned land carefully surveyed upon the ground by a competent surveyor or engineer.

This opinion cannot cover the question of possible dedication of gas underlying the captioned land to interstate commerce nor the price of either oil or gas produced and marketed.

This opinion is limited in its coverage of the mineral estate to oil and gas underlying the captioned land and does not cover other minerals.

This opinion does not cover the question of potential liability for environmental contamination caused by past spills, leaks, operations, or disposal of hazardous waste. State and federal statutes may impose liability for such occurrences on past, present and subsequent owners of real property, without evidence of culpability or actual contribution to the contamination.

The abstracts submitted for examination are returned herewith.

Very truly yours,

COTTON, BLEDSOE, TIGHE & DAWSON

Terris Herd Tevis Herd By:

TH:cm Encl.

PATTERSON PETROLEUM INC. TOMAHAWK PROSPECT E/2 SECTION 19, T-17-S, R-34-E LEA COUNTY, NEW MEXICO

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OWNERSHIP PLAT AS TO SECTION 19, T-17-S, R-34-E AND CONTIGUOUS SECTIONS (ONLY AS TO RIGHTS BELOW THE BASE OF THE SAN ANDRES)

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B-2148	B-4118	B-4118

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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Azlec, NM 87410 District IV

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PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. ¹ OGRID Number 141928 PATTERSON PETROLEUM, INC. ¹ API Number P.O. DRAWER 1416 30 - 0 SNYDER, TEXAS 79550 Property Code ⁴ Property Name • Well No. 1 Tomahawk St. 19 Surface Location UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West tine County Lea 1148 East 2616 North 34E 17S Н 19 8 Proposed Bottom Hole Location If Different From Surface Township Lot Ida Feet from the North/South line UL or lot no. Section Range Feet from the East/West line County ¹⁰ Proposed Pool 2 * Proposed Pool 1 Wildcat - Wolfcamp N. Vacuum - Atoka/Morrow 13 Cable/Rotary 13 Well Type Code Work Type Code ¹⁴ Lease Type Code ¹⁵ Ground Level Elevation S 0 & G R 4092' N ¹ Multiple 17 Proposed Depth ¹⁸ Formation " Contractor ²⁸ Spud Date Upon Approva Patterson Drilling 13,600 Morrow No 21 Proposed Casing and Cement Program Hole Size **Casing Size** Casing weight/foot Setting Depth Sacks of Cement Endmeire TOC 17-1/2" Surface 48# 13-3/8" 400' 440 sx 4,800 24# & 32# Surface 11" 8-5/8" 1300 sx 13,600' 1200 sx 5000 17# & 20# 7-7/8" 5-1/2" 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 mpe. Describe the blowout prevention program, if any. Use additional sheets if necessary. Drilling Fluid Synopsis attached 5000# WP - See Figure 2.5 attached BOP: Series 900 Additional casing & cementing information attached ²³ I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief: Signature: Approved by: 1 e Title: Printed name: Nolan von Roeder Approval Date: Title: **Expiration Date:** Petroleum Engineer Dates Phone **Conditions of Approval :** 915/573-1938 02/24/99 Attached 🛛

DISTRICT I

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

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

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

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

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

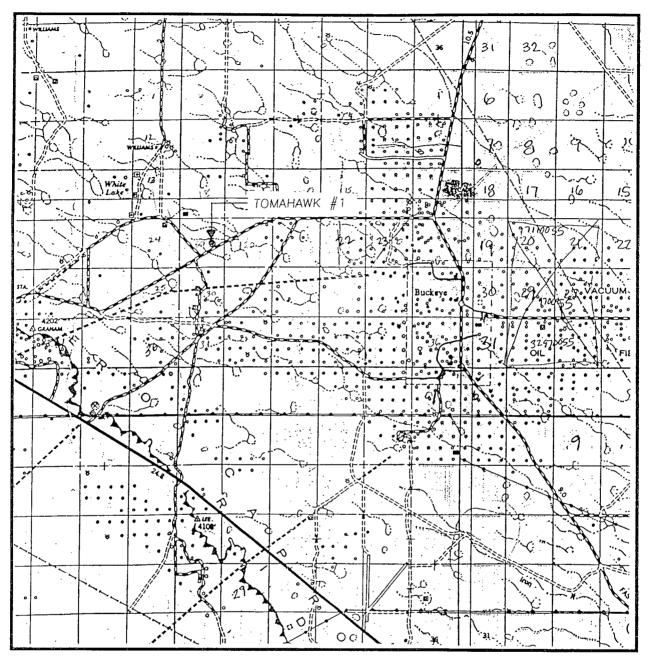
OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

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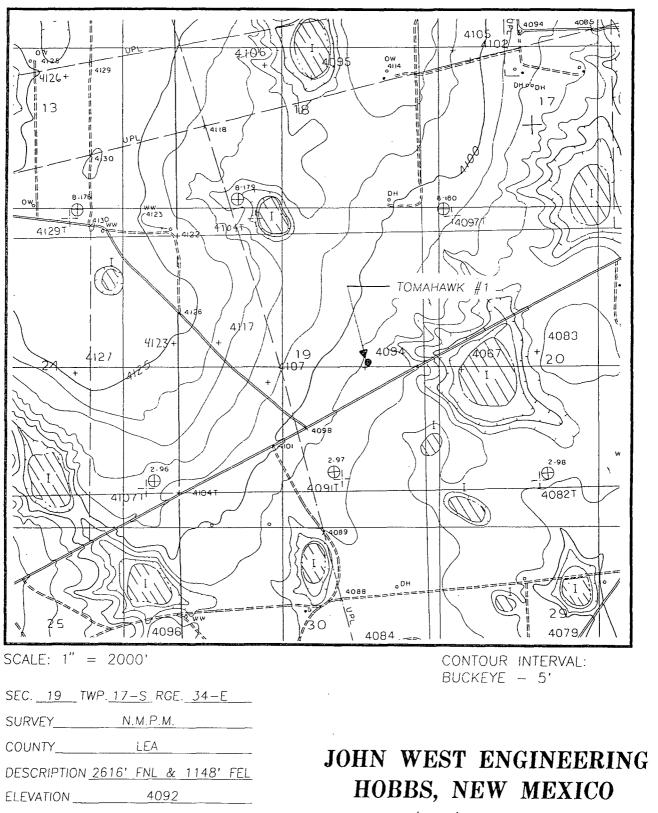
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SEC. <u>19</u> TWP. <u>17 – S</u> RGE. <u>34 – E</u> SURVEY N.M.P.M. COUNTY LEA DESCRIPTION <u>2616' FNL & 1148' FEL</u> ELEVATION <u>4092</u> OPERATOR <u>PATTERSON PETROLEUM, INC.</u> LEASE <u>TOMAHAWK St. 19</u>

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

LOCATION VERIFICATION MAP



OPERATOR PATTERSON PETROLEUM, INC. LEASE TOMAHAWK **St. 19**

U.S.G.S. TOPOGRAPHIC MAP BUCKEYE, N.M. (505) 393-3117

415 W. WALL, SUITE 530 MIDLAND, TEXAS 79701

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24 HOUR SERVICE 915-684-7446

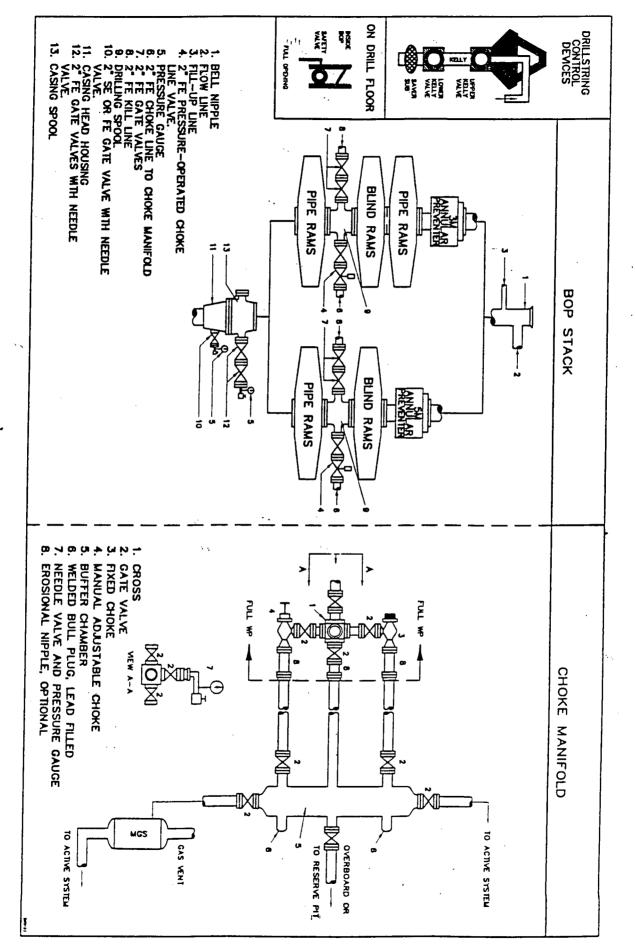
DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM TOMAHAWK # 1

SECTION 19 T-17-S R-34-E LEA COUNTY, NEW MEXICO

	CASING	
13 3/8"	at	400'
8 5/8"	at	4, 8 00'
5 1/2"	at	13,500'

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0-400'	8.6 to 9.5	32 to 45	No Control	<5%	Spud Mud, Paper
400'-4, 8 00'	10.0 to 10.1	28 to 29	No Control	<1%	Brine Water, Paper, Caustic
4, 8 00'-12,500'	8.4 to 9.2	28 to 29	No Control	<1%	Fresh Water, Caustic, Paper, (Brine if needed)
12,500'-13,500'	9.0 to 9.5	36 to 42	<10cc	<5%	Xanthan Gum, White Starch, PAC, Caustic



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Fig. 2.5. Class 3 BOP and Choke Manifold.

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E.

PROPOSED CASING & CEMENTING PROGRAM

TOMAHAWK ST. 19 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 440 sacks of Class "C" + 2% CaCl2

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft/sk
Water Requirement:	6.3 gal./sk

8 5/8", 24 & 32 lb/ft, J-55 Intermediate Casing Set at 4800' - in a 11" Hole

Lead :	1000 sx of 35:65 Poz Class "C" + 5% salt + 6% gel + 1/4 lb/sk celloflake	Э
	+ 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: 300 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", 17 & 20 lb/ft, N-80 Production Casing Set at 13,500' - in a 7 7/8" Hole

Set stage tool at approximately 9500'

1 st Stage : 500 sx of 50:50 Poz Class "H" + 5% salt + 2 % gel + 3/10% retarder + 2/10% dispersant + 2/10% antifoamer

Slurry Weight:	14.6 ppg
Slurry Yield:	1.27 cu.ft/sk
Water Requirement:	5.67 gal/sk

2 nd Stage : Lead - 500 sx of 35:65 Poz Class "H" + 5% salt + 6% gel + 3/10 % retarder + 2/10% antifoamer Desired TOC = 4750'

Slurry Weight:	12.8 ppg
Slurry Yield:	1.95 cu.ft/sk
Water Requirement:	10.49 gal/sk

PROPOSED CASING & CEMENTING PROGRAM

TOMAHAWK ST. 19 WELL NO. 1

.

2 nd Stage : Tail - 200 sx of 50:50 Poz Class "H" + 5% salt + 2% gel + 3/10% retarder + 2/10% dispersant & antifoamer

Slurry Weight:	14.6
Slurry Yield:	1.27
Water Requirement:	5.67

14.6 ppg 1.27 cu.ft/sk 5.67 gal/sk District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztoc, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

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APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address.										² O	GRID Number	
PATTERSON PETROLEUM, INC. 141928							141928					
P.O. DRAWER 1416							AFI Number					
SNYDER	SNYDER, TEXAS 79550 30-0											
* Prope	rty Code				' Pi	roperty Name				1	• Well No.	
			Tomah	awk St.	. 19						1	
					⁷ Surface	Location				<u> </u>		
UL or iot no.	Section	Township	Range	Lot Ida	Feet from the	North/South	line	Fost from the	East/V	Cat line	County	
H	× 19	17S	34E		2616	Nort	:h	1148	F	last	Lea	
		⁸ Pı	oposed	Bottom	Hole Locati	ion If Diff	ieren	t From Sur	face			
UL or lot no.	Section	Township	Range	Lot Ida	· Feet from the	North/South	line	Feet from the	East/V	Vest line	County	
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		' Propo	eci Pool 1						ed Pool :	2		
N. Vá	icuum -	- Atoka	/Morrov	1		Wildo	at	- Wolfcamp	•			
ł	ype Code		" Well Type		¹⁹ Cable	/Rotary R		" Lesse Type Co	de		and Level Elevation	
N			<u>۵</u> ۵ ۵							. 4	092'	
¹⁴ Mu	ltiple		" Proposed	•	" Fort			" Contractor		¹⁶ Spud Date		
No			13,60		Mor		<u> </u>	terson Dri	.111n	ng Upon Approval		
					ed Casing a	nd Cemen	t Pro	ogram				
Hole Si		يستقب ستنكد	ng Size	Casia	g weight/foot	Setting D			(Cement		Estimaton TOC	
17-1/2	2		3/8"		48#	100		440 sx			Surface	
11"	· ·		5/8"		5: 32 # 4,80		_	1300			Surface	
7-7/8	<u>8" </u>	5-	1/2"	17# &	20# 13,600'		•	1200 sx		5000'		
¹⁰ Describe the									وسيند ست الكتر			
zone. Describe	proposed pi the blowou	t prevention	us applicatio program, if	any. Use ad	PEN or PLUG BA ditional sheets if n	CK give the dat seconary.	a oa ti	se present product	ive zone i	ad propos	ed new preductive	
				attache		·						
		в 900			ee Figure	2.5 atta	ched	L .				
Addit	ional	casing	& ceme	nting i	nformation	attache	d					
²⁸ I hereby certify that the information given above is true and complete to the best												
of my knowledge		1					LC	ONSERVA'	TION	DIVIS	SION	
Signature:	MA	em	1k	\sim	•	pproved by:						
Printed name:	Nolan	von Ro	eder		Τί	itle:			<u></u>			
^{Title:} Pe	troleu	m Engin	eer		A	pproval Date:			Expiratio	n Date:		
Date: 02	/24/99	Phone:			038 11	onditions of App	rovai :					

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

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

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

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

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

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

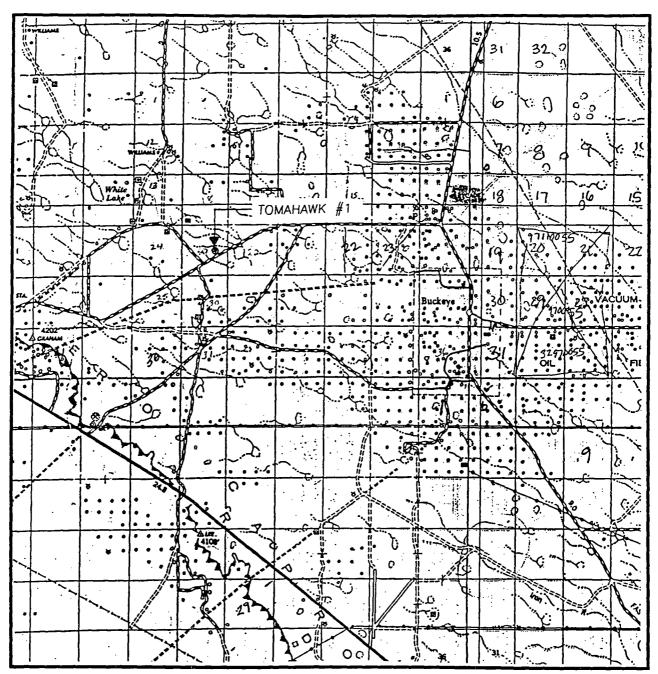
□ AMENDED REPORT

LOCATION AND ACDEACE DEDICATION DIAT

		,	WELL LO	CATION	AND A	CREA	GE DEDICATI	ON PLAT		
API	Number	Pool Code						Pool Name		
		N. Vacuum - Atoka/Morrow								
Property	Code	Property Name Well Numbe							nber .	
		TOMAHAWK St. 19 1								
OGRID N	0.		Operator Name Elevatio							
141928]		PALLER	RSON P	EIRO	LEUM, INC.		4092	<u> </u>
					Surfac	e Loca	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County
Н	19	17 S	34 E		2616		NORTH	1148	EAST	LEA
<u>-</u> ,			Bottom	Hole Loo	cation If	Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	or Infill Co	nsolidation	Code Or	der No.					
320										
NO ALLO	OWABLE W	VILL BE AS	SSIGNED	TO THIS	COMPLET	ION U	JNTIL ALL INTER	RESTS HAVE BI	EEN CONSOLIDA	ATED
		ORAN	ION-STAN	IDARD UN	NIT HAS	BEEN	APPROVED BY	THE DIVISION		
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	OPERATOR CERTIFICATION									
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			NAD 1927					Date	•	
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1				1				supervison a	nd that the same is	true and

1	correct to the best of my belief.	
	FEBRUARY 17, 1999 Date Surveyed J. E. Seal of Signature & Seal of	
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	Professional Surveyor O	
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VICINITY MAP



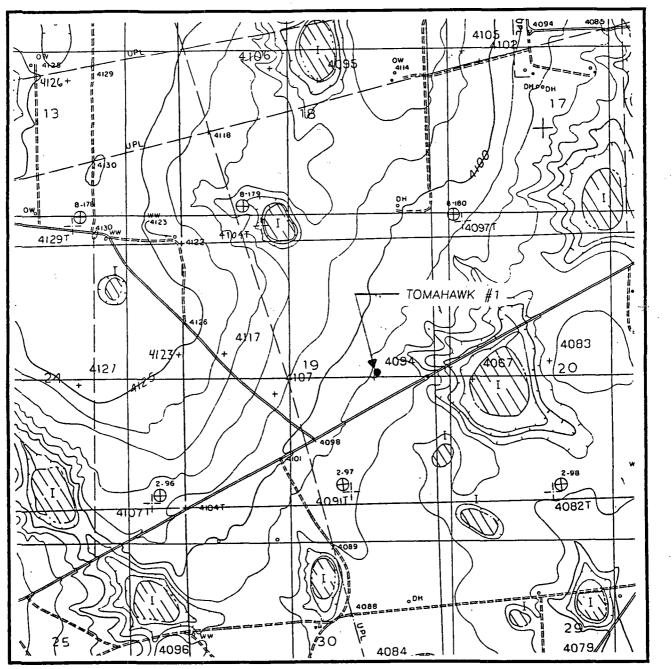
SCALE: 1'' = 2 MILES

NDATH

SEC. <u>19</u> TWP. <u>17-S</u> RGE. <u>34-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>2616' FNL & 1148' FEL</u> ELEVATION <u>4092</u> OPERATOR <u>PATTERSON PETROLEUM, INC.</u> LEASE <u>TOMAHAWK St. 19</u>

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

LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>19</u> TWP.<u>17–S</u> RGE. <u>34–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>2616' FNL & 1148' FEL</u> ELEVATION <u>4092</u> OPERATOR <u>PATTERSON PETROLEUM, INC.</u> LEASE <u>TOMAHAWK **St. 19**</u> U.S.G.S. TOPOGRAPHIC MAP BUCKEYE, N.M. CONTOUR INTERVAL: BUCKEYE - 5'

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117 415 W. WALL, SUITE 530 MIDLAND, TEXAS 79701

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24 HOUR SERVICE 915-684-7446

DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM TOMAHAWK # 1

SECTION 19 T-17-S R-34-E LEA COUNTY, NEW MEXICO

. .

	<u>CASING</u>	
13 3/8*	at	400'
8 5/8"	at	4, 8 00'
5 1/2"	at	13,500'

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0-400'	8.6 to 9.5	32 to 45	No Control	<5%	Spud Mud, Paper
400'-4, 8 00'	10.0 to 10.1	28 to 29	No Control	<1%	Brine Water, Paper, Caustic
4,000'-12,500'	8.4 to 9.2	28 to 29	No Control	<1%	Fresh Water, Caustic, Paper, (Brine if needed)
12,500'-13,500'	9.0 to 9.5	36 to 42	<10cc	<5%	Xanthan Gum, White Starch, PAC, Caustic

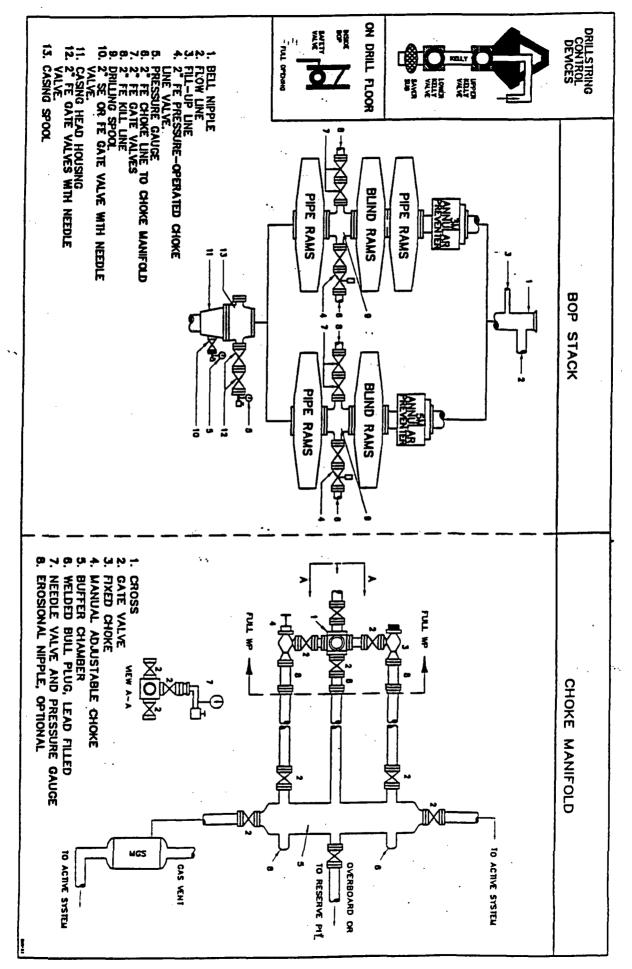


Fig. 2.5. Class 3 BOP and Choke Manifold.

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PROPOSED CASING & CEMENTING PROGRAM

TOMAHAWK ST. 19 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 440 sacks of Class "C" + 2% CaCl2

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu.ft/sk
Water Requirement:	6.3 gal./sk

8 5/8", 24 & 32 lb/ft, J-55 Intermediate Casing Set at 4800' - in a 11" Hole

Lead: 1000 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: 300 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", 17 & 20 lb/ft, N-80 Production Casing Set at 13,500' - in a 7 7/8" Hole

Set stage tool at approximately 9500'

1 st Stage : 500 sx of 50:50 Poz Class "H" + 5% salt + 2 % gel + 3/10% retarder + 2/10% dispersant + 2/10% antifoamer

Slurry Weight:	
Slurry Yield:	
Water Requirement:	

14.6 ppg 1.27 cu.ft/sk 5.67 gal/sk

2 nd Stage : Lead - 500 sx of 35:65 Poz Class "H" + 5% salt + 6% gel + 3/10 % retarder + 2/10% antifoamer Desired TOC = 4750'

Slurry Weight:	12.8 ppg
Slurry Yield:	1.95 cu.ft/sk
Water Requirement:	10.49 gal/sk

PROPOSED CASING & CEMENTING PROGRAM

TOMAHAWK ST. 19 WELL NO. 1

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2 nd Stage : Tail - 200 sx of 50:50 Poz Class "H" + 5% salt + 2% gel + 3/10% retarder + 2/10% dispersant & antifoamer

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/ cu.ft/sk
/ gal/sk

Patterson Petroleum, Inc.

410 N. Loraine, Suite B Midland, Texas 79701 (915) 685-1414 • Fax 685-1133

March 3, 1999

Fax #: (505) 827-1389

Michael E. Stogner Chief Examiner New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Unorthodox Location Request for the Patterson Petroleum, Inc., Tomahawk St. 19 #1, to be Located 2,616' FNL & 1,148' FEL of Section 19, T-17-S, R-34-E, Lea County, New Mexico

Dear Mr. Stogner:

Pursuant to our phone conversation yesterday concerning the captioned, please be advised that we may also encounter the Abo Formation at the proposed unorthodox location. Given the location of the subject well and if the Abo is capable of commercial production and a completion was successful, the well would qualify to be in the N. Vacuum Abo Pool. Pool rules for same call for 80 acre Pool Units. Therefore, should the subject well be completed in the Abo Formation we will make the Pool Unit for same the S/2 of the NE/4 of Section 19, T-17-S, R-34-E.

Please take this information into consideration for our request of administrative approval for the captioned well. Should you have any question or need further information do not hesitate to call, my toll free phone number is 1-800-470-4200.

Once you have reached your decision concerning our request, please fax me a copy of the written decision when available, **my fax number** is (915) 685-1133. Thank you for your time and the courtesy you have extended to Patterson in regards to this request.

Sincerely, Joe Fitzgeral

Land Manager



Patterson Petroleum, Inc. 410 N. Loraine, Suite B Midland, Texas 79701 (915) 685-1414 🖋 Fax 685-1133

March 3, 1999

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Joe Fitzgeral

Land Manager

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ΡΑΤ	TERSON PE	TROLEU	im, Inc.
410-B N. Lo	oraine, Midland, Texas 79701, P	'hone (915)685-1414	, Fax (915) 685-1133
Date:	3-3-99		ding cover): Z
	Michael Stoquer	From:	Ge Fitzgerab
Company:	NMOCD	Company:	Patterson Petroleum
Phone:		Phone:	(915) 685-1414
Fax:	(505) 827-1389	Fax:	(915) 685-1133
Remarks: Comments:	DUrgent DFor Your Review	ℤ by mail	w D Comments Please
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Description: 4 Sec 30 (R-4041, 11-1-70)

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COUNTY Lea

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Description: NE4 Sec 18 (R=5334, 12-1-76)

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TOWNSHIP 17 South RANGE 34- East NMPM

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Abo

Page 204 New Mexico

NORTH VACUUM-ABO POOL Lea County, New Mexico

Order No. R-2421, Creating and Adopting Temporary Operating Rules for the North Vacuum-Abo Pool, Lea County, New Mexico, March 1, 1963.

Order No. R-2421-A, March 13, 1964, makes permanent the temporary rules adopted in Order No. R-2421.

Application of Socony Mobil Oil Company, Inc., to create a New Pool for Abo production and for Special Pool Rules, Lea County, New Mexico.

> CASE NO. 2739 Order No. R-2421

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on January 23, 1963, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 13th day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Socony Mobil Oil Company, Inc., seeks the creation of a new pool for Abo production and the promulgation of temporary special rules and regulations governing said pool, including a provision for 80-acre spacing units.

(3) That a new oil pool for Abo production should be created and designated the North Vacuum-Abo Oil Pool. This pool was discovered by the Socony Mobil State Bridges Well No. 95, located in Unit P of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico. The top of the perforations in the Abo formation is at 9070 feet.

(4) That temporary special rules and regulations establishing 80-acre spacing should be promulgated for the subject pool in order to prevent the possibility of economic loss resulting from the drilling of unnecessary wells and in order to allow the operators in the subject pool to gather information concerning the reservoir characteristics of the pool.

(5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(6) That the temporary special rules and regulations should be established for a one-year period and that during this oneyear period all operators in the subject pool should gather all

SECTION II

available information relative to drainage and recoverable reserves.

(7) That this case should be reopened at an examiner hearing in February, 1964, at which time the operators in the subject pool should appear and show cause why the North Vacuum-Abo Oil Pool should not be developed on 40-acre proration units.

IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Abo production is hereby created and designated the North Vacuum-Abo Oil Pool, consisting of the followingdescribed area:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM Section 26: SE/4

(2) That special rules and regulations for the North Vacuum-Abo Oil Pool are hereby promulgated as follows, effective March 1, 1963,

SPECIAL RULES AND REGULATIONS FOR THE NORTH VACUUM-ABO OIL POOL

RULE 1. Each well completed or recompleted in the North Vacuum-Abo Oil Pool or in the Abo formation within one mile of the North Vacuum-Abo Oil Pool, and not nearer to or within the limits of another designated Abo pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the North Vacuum-Abo Oil Pool shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a single governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

RULE 3. The Secretary-Director may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. The first well drilled on every standard or nonstandard unit in the North Vacuum-Abo Oil Pool shall be located within 200 feet of the center of either the NW/4 or the SE/4 of a governmental quarter section.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an

R. W. Byram & Co., - May, 1965

(NORTH VACUUM-ABO POOL - Cont'd.)

objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (79 through 81 acres) in the North Vacuum-Abo Oil Pool shall be assigned an 80acre proportional factor of 4.77 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable in the North Vacuum-Abo Oil Pool as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED:

(1) That any well presently drilling to or completed in the Abo formation within the North Vacuum-Abo Oil Pool or within one mile of the North Vacuum-Abo Oil Pool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of Rule 4. The operator shall notify the Hobbs District Office in writing of the name and location of the well on or before March 1, 1963.

(2) That any operator desiring to dedicate 80 acres to a well presently drilling or completed in the North Vacuum-Abo Oil Pool shall file a new Form C-128 with the Commission on or before March 1, 1963.

(3) That this case shall be reopened at an examiner hearing in February, 1964, at which time the operators in the subject pool may appear and show cause why the North Vacuum-Abo Oil Pool should not be developed on 40-acre proration units.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

SECTION II

SIMPSON-GALLUP POOL San Juan County, New Mexico

Order No. R-2375, Creating and Adopting Temporary Operating Rules for the Simpson-Gallup Pool, San Juan County, New Mexico, December 1, 1962, Made Permanent by Order No. R-2375-A, January 29, 1964.

Application of Pan American Petroleum Corporation for the creation of a new Oil Pool and the establishment of Special Rules and Regulations, San Juan County, New Mexico.

> CASE NO. 2682 Order No. R-2375

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on November 8, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 21st day of November, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Pan American Petroleum Corporation, seeks an order creating a new oil pool for Gallup production to be designated the Simpson-Gallup Oil Pool consisting of the following-described acreage in San Juan County, New Mexico:

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPMSection 23: S/2Section 25: N/2Section 24: SW/4Section 26: NE/4

(3) That the applicant proposes the promulgation of special rules and regulations to govern said pool with a provision for 80-acre oil proration units.

(4) That the Simpson-Gallup Oil Pool was discovered by the Pan American Gallegos Canyon Unit Well No. 83, located in Unit A of Section 26, Township 28 North, Range 12 West, NMPM, San Juan County, New Mexico. This well was completed February 29, 1959. The top of the perforations is at 5548 feet.

(5) That the evidence presently available establishes that the Simpson-Gallup Oil Pool can be efficiently and economically drained and developed on 80-acre oil proration units.

(6) That during the temporary period in which this order will be in effect, all operators in the subject pool should gather all available information relative to drainage and recoverable reserves in said pool. Page: 1 Document Name: untitled

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<u>Ext. V2 & SE/4 Sec 8, E/2 Sec 17 (R 5215, 6-1-76)</u> <u>Vertical limits extended to include Atoka Formation and</u> <u>rool redesignated North Vacuum Atoka Morrow Gas(R-5334;12-1-76)</u> <u>Ext. NE4 Sec 8, V2 Sec 17 (R 5511; 9:1-77)</u> <u>Ext. Ext. Sec 1, NE4 Sec 12 (R-2307; 6-14-83)</u>

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