

### Patterson Petroleum, Inc.

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

May 25, 1999

Michael 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., Arrowhead St. 15 #1,to be Located 1087' FNL & 1,235' FEL of Section 15, T-17-S, R-33-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 15 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 prepared by our Geologist, Truitt Matthews. Truitt may be reached at (214) 369-2020 if you have any questions concerning same.

The subject location is unorthodox. However, Patterson/Phillips either own all of the offset pool units or we have obtained a waiver from the third party owning an interest in same. Submitted herewith is a land plat indicating the offset pool unit ownership. Please note Patterson (through our agreement with Phillips) has all of the offset units except for 80 acres in the North offset unit to our well, and 240 acres in the Northeast offset. The interest in both offset pool units is owned by Mack Energy Corp. Enclosed for your review is the waiver from Mack Energy Corp. Patterson is to drill on, State of New Mexico Oil and Gas lease #B-2229, covers all of Section 15, T-17-S, R-33-E, plus most of the offset acreage. I would like to also point out all of the offsets are on State minerals. To summarize, we either own or have obtained a waiver from any effected party in the offsets and the only mineral owner involved is the State of New Mexico, which should benefit from the development of the subject mineral estate. Therefore, we request administrative approval of the subject well and 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 drilled to a depth of 13,800' as a Wildcat Atoka/Morrow test. 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 Cisco (Oil) test which would be in the Leamex Penn Pool; for which the rules call for 40 acres. We are designating the N/2 of Section 15 as our pool unit. Secondary possibilities from which we may encounter productive intervals are the Paddock (Leamex Paddock, 40 acre oil), Abo (Wildcat, 40 acre oil), Wolfcamp (Leamex Wolfcamp, 40 acre oil).

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

Sincerely,

Joe Fitzgerald Land Manager





DATE:

May 24, 1999

TO:

Michael Stogner, NMOCD

FROM:

Truitt Matthews, Petroleum Geologist

RE:

Location Exception

Patterson Petroleum, Inc. – Arrowhead St. "15" #1 PTD 13,800'

1087' FNL and 1235' FEL, Section 15, T17S-R33E

Lea County, New Mexico

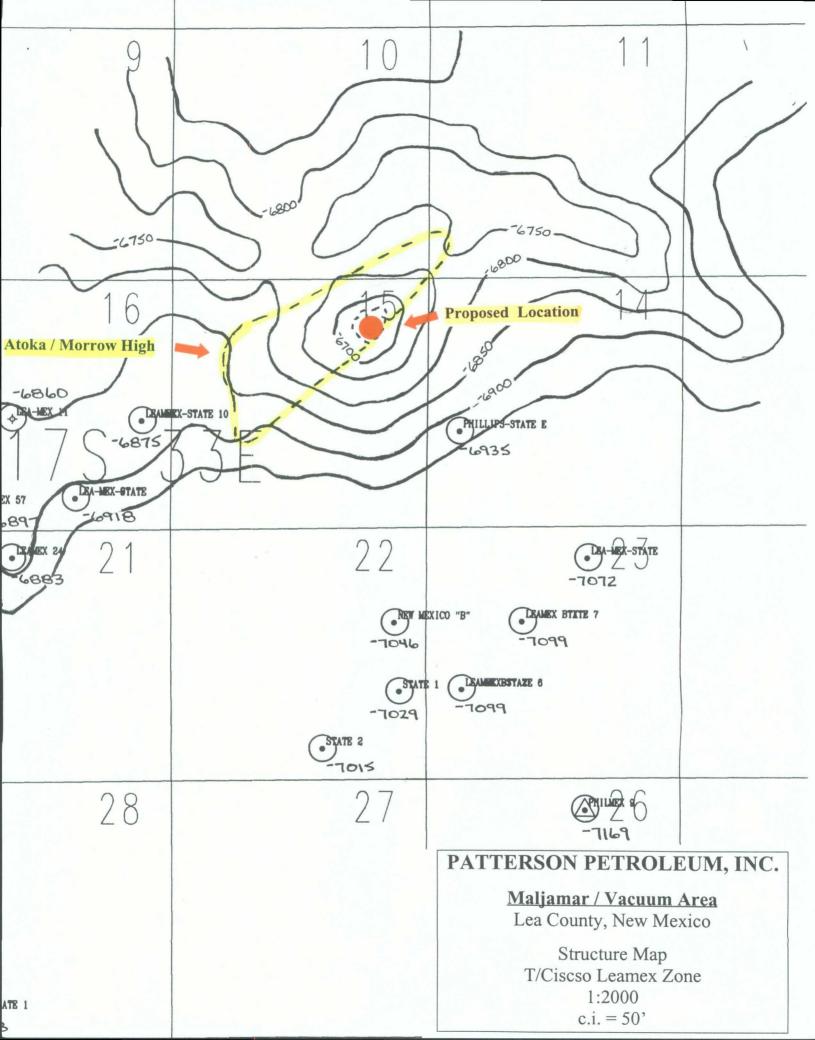
Please find enclosed the two structure maps, T/Morrow Lime and T/Cisco Leamex as supplemental to this brief geological discussion requesting a location exception for an Atoka/Morrow test (PTD 13,800') in Section 15, T17S-R33E (X=711130, Y=669570).

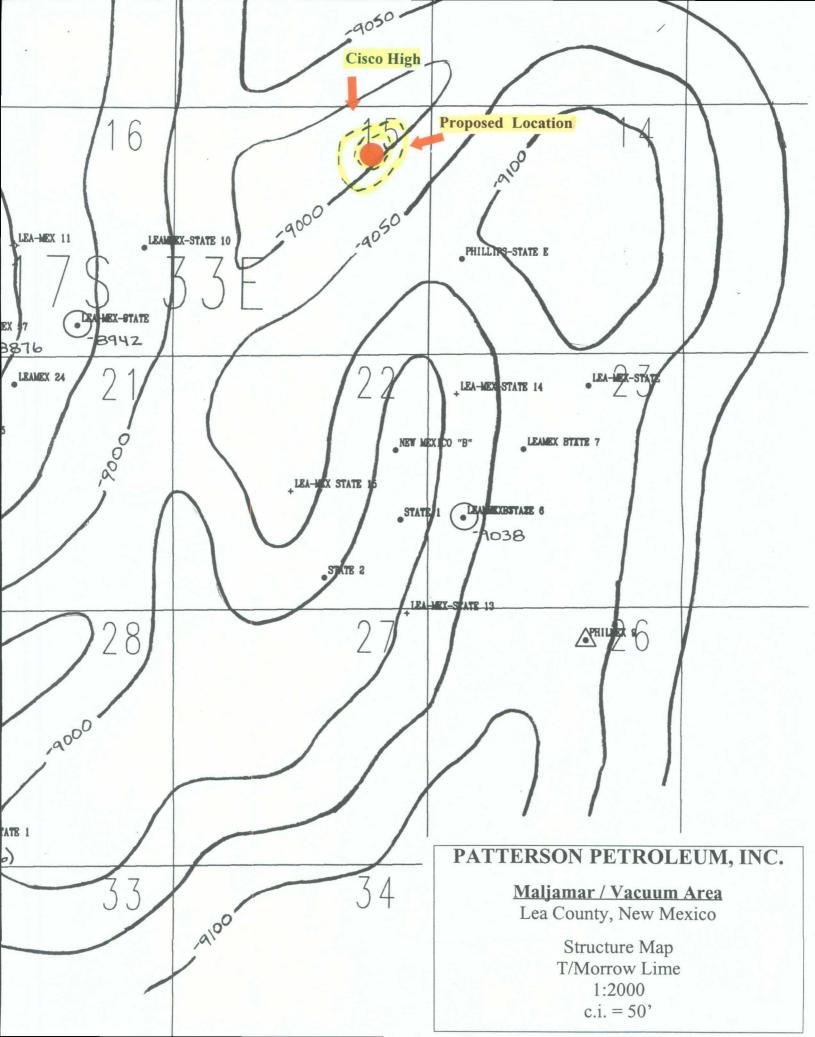
The Arrowhead Prospect is primarily a result of the interpretation of a 3-D seismic shoot conducted in 1994. This combination structural stratigraphic trap lies along a subtle NE-SW trending ridge as evidenced by 3-D seismic mapping on several deep horizons and subsurface mapping of the limited well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

The potential for production from the Atoka/Morrow section is noted from subsurface mapping showing the possible occurrence of sands overlying the NE-SW 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 highstand shelf margin. The Leamex (Cisco) field (1,356,901 BO + 2 BCFG) lies 1-1/2 miles south southeast 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 most favorable Atoka/Morrow trapping position, 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 3-D seismic data volume and subsurface mapping by both geologic 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.

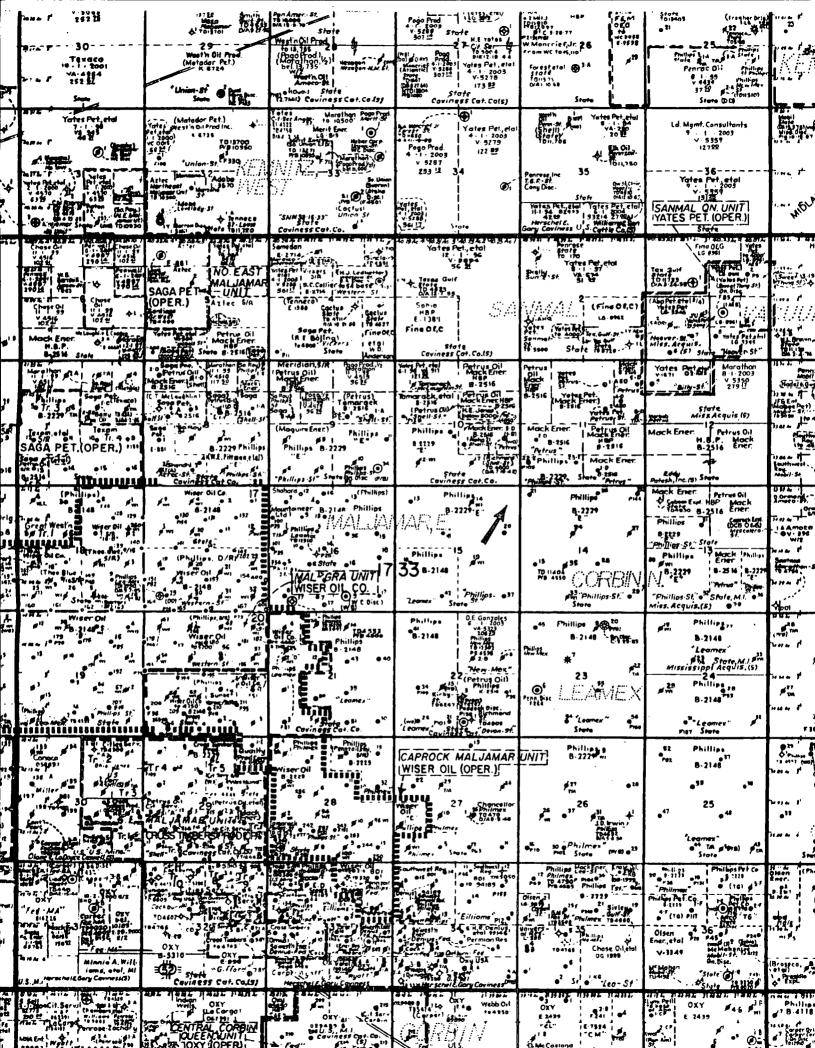




### PATTERSON PETROLEUM INC. ARROWHEAD PROSPECT N/2 SECTION 15, T-17-S, R-34-E LEA COUNTY, NEW MEXICO

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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915 368 1633 P.02/02



## Patterson Petroleum, Inc.

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

May 24, 1999

Mack Energy, Corp. P.O. Box 276 Artesia, NM 68210

Re: Application of Patterson Petroleum, Inc. for Administrative Approval of an Unorthodox Location for its Arrowhead St. 15 #1 Well, located 1,087' FNL and 1,235' FEL of Section 15, T-17-S, R-33-E, N.M.P.M., Lea County, New Mexico

#### Gentlemen:

Patterson Petroleum, Inc. has filed with the enclosed application with the New Mexico Oil Conservation Division seeking administrative approval of an unorthodox location for its Arrowhead St. 15 #1 Well. The subject well is a Wildcat Atoka/Morrow test, located at a point 1,087' FNL and 1,235' FEL of Section 15, T-17-S, R-33-E, N.M.P.M., Lea County, New Mexico.

Patterson requests you waive any objection to this location. If you are agreeable to doing so, please indicate your waiver by signing and dating this letter where indicated below, and return one original signed copy to me by fax and by mail to the number and address given in the letter head above.

If you have any question or need further information, do not hesitate to call.

Sincerely

Joe Brizgerald Land Manager

AGREED TO AND ACCEPTED THIS 25th DAY OF MAY, 1999.

MACK EMERGY CORP.

Name: Robert C. Chase Title: Vice President Date: May 25, 1999

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

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

### State of New Mexico Energy, Minerals & Natural Resources Department PO Box 1980, Hobbs, NM 88241-1980 District II OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, San	ta Fc, NM §	i7504-2088	ı			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					DED REPORT
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11"		8-	5/8"	3	2#	4800'			1900 sx		Surface
7-7/8	3"	5 <b>-</b>	1/2"	17#	& 20#	13 <b>,8</b> 00'	12		250 sx		8000'
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	ional (	casing	& ceme	nting i	information	n attached	d				
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23 I hereby certify of my knowledge	•	-	jiven above is i	irue and com	plete to the best	OI	L C	ONSERVA	TION	DIVI	SION
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Printed name:											
·	Nola	n von	Roeder		T	litle:		·			
Title:			Roeder Enginee	r		litle:			Expiration	no Deto:	

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 Fee Lease - 3 Copies

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

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

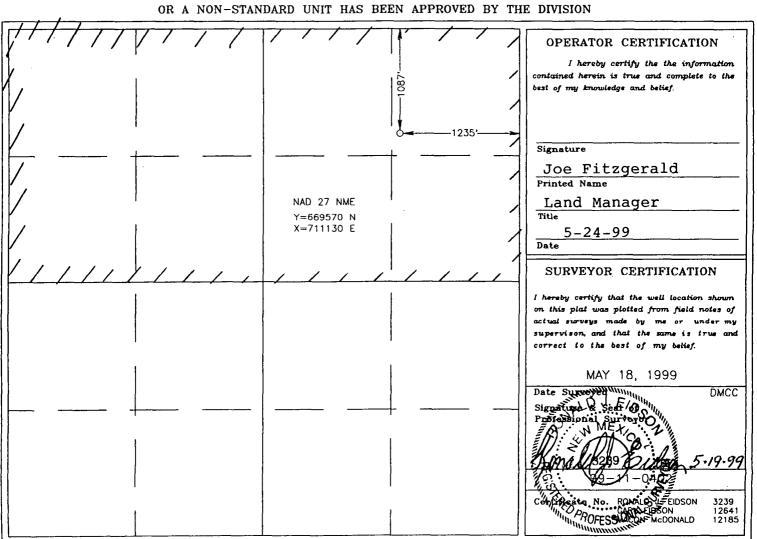
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		1	Pool Code Pool Name Wildcat - Atoka/Morrow							
Property	Property Code Property Name ARROWHEAD STATE 15							Well Number			
0GRID N 141928	OGRID No. Operator Name 141928 PATTERSON PETROLEUM, INC							Elevation 4157			
					Surface Loca	ation					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
Α	15	17 S	33 E		1087	NORTH	1235	EAST	LEA		

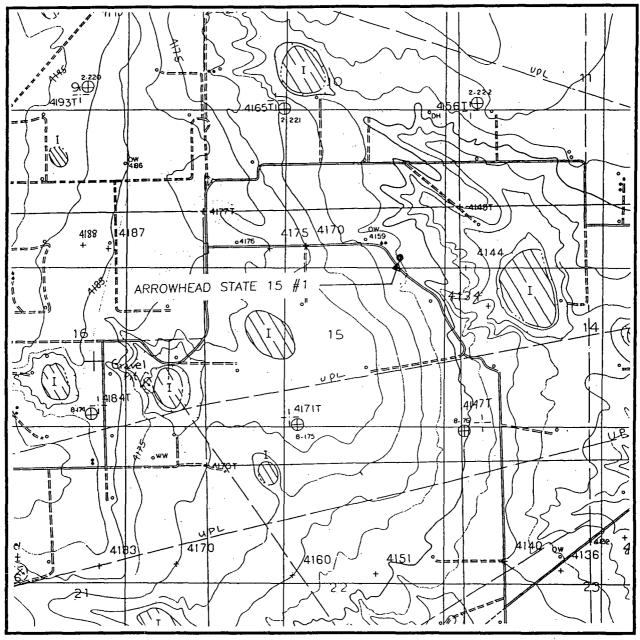
### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint o	or Infill Co	nsolidation	Code Or	der No.				<b>.</b>

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000

SEC. <u>15</u> TWP. <u>17-S</u> RGE. <u>33-E</u>

SURVEY N.M.P.M.

COUNTY\_\_\_\_LEA

DESCRIPTION 1087' FNL & 1235' FEL

ELEVATION 4157

OPERATOR PATTERSON PETROLEUM, INC.

LEASE ARROWHEAD STATE 15

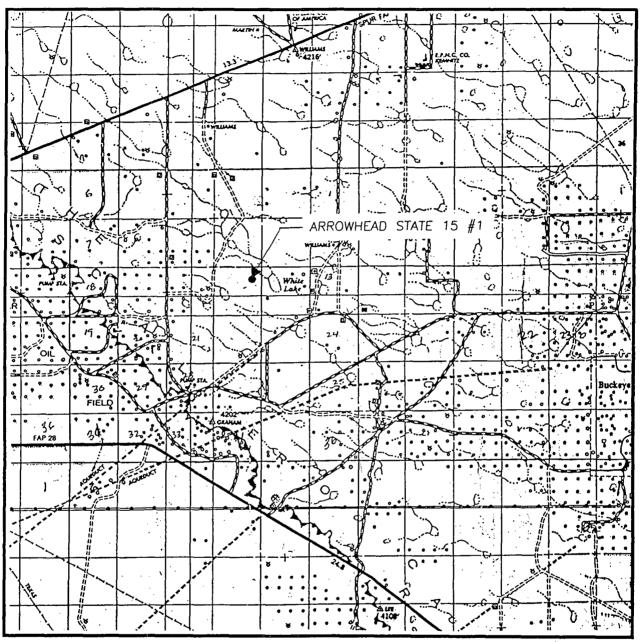
U.S.G.S. TOPOGRAPHIC MAP

DOG LAKE, N.M.

CONTOUR INTERVAL: DOG LAKE- 10' WITH 5' SUPP.

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

# VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>15</u> TWP. <u>17-S</u> RGE. <u>33-E</u>	
SURVEY N.M.P.M.	
COUNTYLEA	
DESCRIPTION 1087' FNL & 1235' FEL	
ELEVATION 4157	
OPERATOR PATTERSON PETROLEUM, INC	0
I FASE ARROWHEAD STATE 15	

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



## Patterson Petroleum, Inc.

P.O. Box 1416 Snyder, Texas 79550

#### DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM, INC. Arrowhead State 15 #1

Section 15 T-17-S R-33-E Lea County, New Mexico

	CASING	
13-3/8"	at	400'
8-5/8"	at	4,800'
5-1/2"	at	13,800'

DEPTH	MUD	WEIGHT	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0'-400'	8.6	to 9.5	32 to 45	No control	<b>4</b> 5%	Spud mud, Paper
400'-4800'	10.0	to 10.1	28 to 29	No control	<b>&lt;</b> 1%	Brine water Paper, caustic
4800'-12,500'	8.4	to 9.2	28 to 29	No control	<b>&lt;</b> 1% (B)	Fresh water, Caustic, Paper rine if needed)
12,500'~13,800'	9.0	TO 9.5	36 to 42.	<b>∢</b> 10cc	<b>∢</b> 5%	Xanthan Gum, White starch PAC, Caustic

Phone: (915) 573-1938 Fax: (915) 573-1939

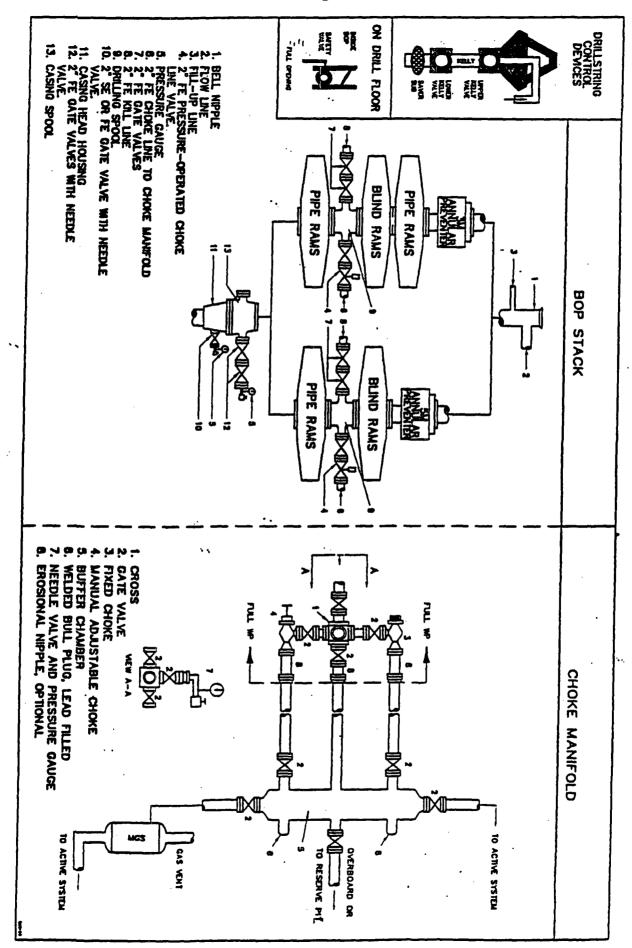


Fig. 2.5. Class 3 BOP and Choke Manifold.

#### PROPOSED CASING & CEMENTING PROGRAM

#### ARROWHEAD STATE 15 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 400 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", 32 lb/ft, J-55 & S-80 Intermediate Casing Set at 4800' - in a 11" Hole

Lead: 1600 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 13,800' - in a 7 7/8" Hole

Set stage tool at approximately 10,500'

1 st Stage: Lead - 550 sx of 35:65 Poz Class "H" + 5% salt + 6 % gel + 3/10% ret.

+ 2/10% dispersant + 2/10% antifoamer

Slurry Weight:

13.5 ppg

Slurry Yield:

1.68 cu.ft/sk

Water Requirement:

8.76 gal/sk

1 st Stage : Tail - 250 sx of Class "H" + 5% salt + 2% gel + 3/10 % retarder + 2/10% antifoamer

Slurry Weight:

16.4 ppg

Slurry Yield:

1.09 cu.ft/sk

Water Requirement:

5.49 gal/sk

### PROPOSED CASING & CEMENTING PROGRAM

### ARROWHEAD STATE 15 WELL NO. 1

2 nd Stage : Lead - 300 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

2 nd Stage : Tail - 150 sx of 50:50 Poz Class "H" + 5% salt + 2% gel + 3/10% retarder + 2/10% dispersant & antifoamer

Slurry Weight:

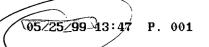
14.6 ppg

Slurry Yield:

1.27 cu.ft/sk

Water Requirement:

5.67 gal/sk



#### PATTERSON PETROLEUM, INC.

410 N. Loraine, SUITE B Midland, Texas 79701 Work Phone: (915) 685-1414	For: (015) 685.1122
CONFIRMATION OR A RESEN MINUTES. IF NO CALL IS	PAGES TO SEND WHICH INCLUDES THIS PAGE. IF YOU NEED ID OF ANY PAGE, PLEASE CALL (915) 685-1414 WITHIN 15 RECEIVED, WE WILL ASSUME YOU HAVE RECEIVED THE PAGES SIMILE IS CONFIDENTIAL AND IF THIS FAX IS SENT TO YOU BY
DELIVER TO: Michael Sto	ogner, NMOCD
FROM: <u>Joe Fitzger</u>	ald
DATE: <u>5-25-99</u>	TIME:
RE: Request for	Unorthodox Location

#### MESSAGE:

Enclosed please find our application and request for administrative approval of the unorthodox location for our Arrowhead St. 15 #1 Well, to be drilled in Section 15, T-17-S, R-33-E, Lea County, New Mexico. I am sending the original application by Federal Express, which you should have tomorrow morning. Should you have any question, comments or need further information please call. My toll free phone number is 1-800-470-4200.



## Patterson Petroleum, Inc.

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

May 25, 1999

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The subject location is unorthodox. However, Patterson/Phillips either own all of the offset pool units or we have obtained a waiver from the third party owning an interest in same. Submitted herewith is a land plat indicating the offset pool unit ownership. Please note Patterson (through our agreement with Phillips) has all of the offset units except for 80 acres in the North offset unit to our well, and 240 acres in the Northeast offset. The interest in both offset pool units is owned by Mack Energy Corp. Enclosed for your review is the waiver from Mack Energy Corp. Patterson is to drill on, State of New Mexico Oil and Gas lease #B-2229, covers all of Section 15, T-17-S, R-33-E, plus most of the offset acreage. I would like to also point out all of the offsets are on State minerals. To summarize, we either own or have obtained a waiver from any effected party in the offsets and the only mineral owner involved is the State of New Mexico, which should benefit from the development of the subject mineral estate. Therefore, we request administrative approval of the subject well and location.

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May 24, 1999

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Michael Stogner, NMOCD

FROM:

Truitt Matthews, Petroleum Geologist

24

To:

RE:

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Lea County, New Mexico

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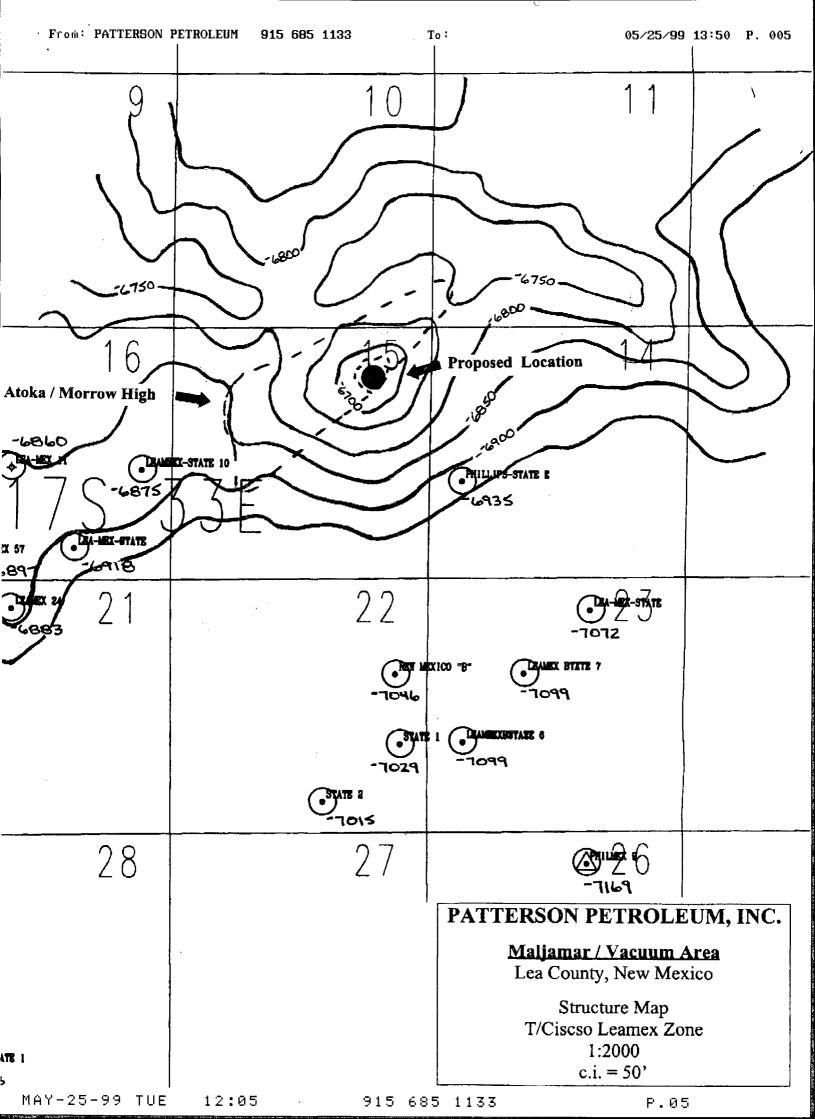
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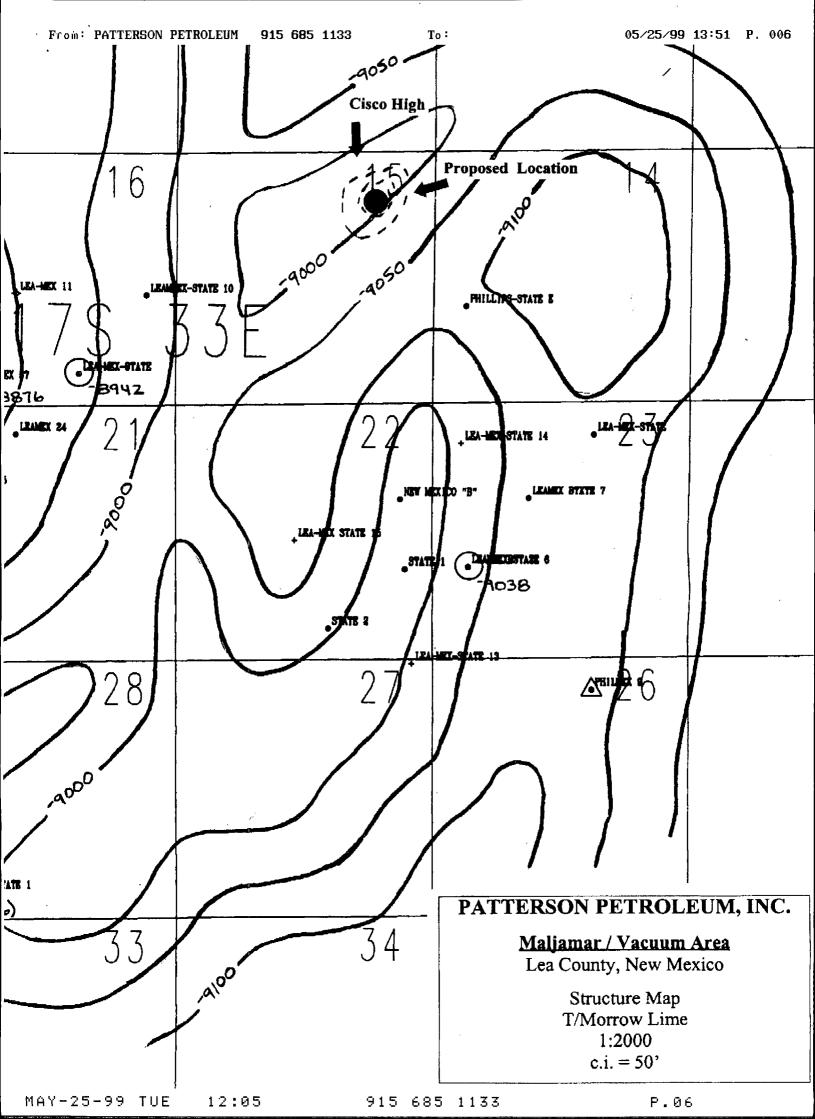
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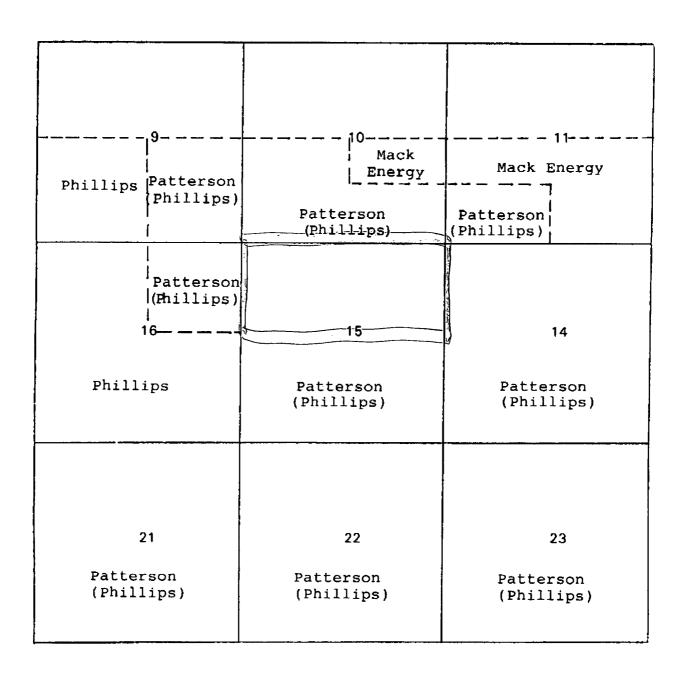
Ventana Exploration, Inc. ● 7557 Rambler Road, Suite 918, LB72, Dallas, TX 75231 ● 214-369-2020 ● Fax 214-369-2058





### PATTERSON PETROLEUM INC. ARROWHEAD PROSPECT N/2 SECTION 15, T-17-S, R-34-E LEA COUNTY, NEW MEXICO

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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05/25/99 09:27 FAX

MAY-25-1999 08:09

PHILLIPS PETROLEUM CO

915 368 1633 P.02/02



# Patterson Petroleum, Inc.

410 N. Loraine, Suite B Midfand, Texas 78701 (915) 885-1414 · Fax 885-1133

May 24, 1999

Mack Energy, Corp. P.O. Box 276 Artesia, NM 88210

Application of Patterson Petroleum, Inc. for Administrative Re: Approval of an Unorthodox Location for its Arrowhead St. 15 #1 Well, located 1,087' FNL and 1,235' PEL of Section 15, T-17-S, R-33-E, N.M.P.M., Lea County, New Mexico

#### Gentlemen:

Patterson Petroleum, Inc. has filed with the enclosed application with the New Mexico Oil Conservation Division seeking administrative approval of an unorthodox location for its Arrowhead St. 15 #1 Well. The subject well is a Wildcat Atoka/Morrow test, located at a point 1,087' FNL and 1,235' FEL of Section 15, T-17-5, R-33-E, N.M.P.M., Lea County, New Mexico.

Patterson requests you waive any objection to this location. If you are agreeable to doing so, please indicate your waiver by signing and dating this letter where indicated below, and return one original signed copy to me by fax and by mail to the number and address given in the letter head above.

If you have any question or need further information, do not hesitate to call.

Sincerely

Joe Brizgerald Land Manager

AGREED TO AND ACCEPTED THIS 25th DAY OF MAY, 1999.

MACK PREMORE CORP

Name: Robert C. Chase Title: Vice President Date: May 25, 1999

TOTAL P.02

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

State of New Mexico
Energy, Minerals & Natural Resources Department

To:

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

PO Box 2088, See	MA Pc, NM	87504-2088								AMEN	DED REPORT
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Hole Si		Casing		Caria	g weight/foot	Setting D	epul	Secks e	f Cement		Estimated TOC
17-1/2	2"	13-3/	8"	48	8#	400'			00 sx		Surface
11"		<b>8-</b> 5/			2#	4800'		1900 sx			
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DISTRICT I P.O. Box 1980, Robbs, 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

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

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410 OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088 Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Wildcat - Atoka/Morrow				
Property Code	•	orty Name AD STATE 15	Well Number			
OGRID No. 141928	•	Itor Name PETROLEUM, INC	Elevation 4157			

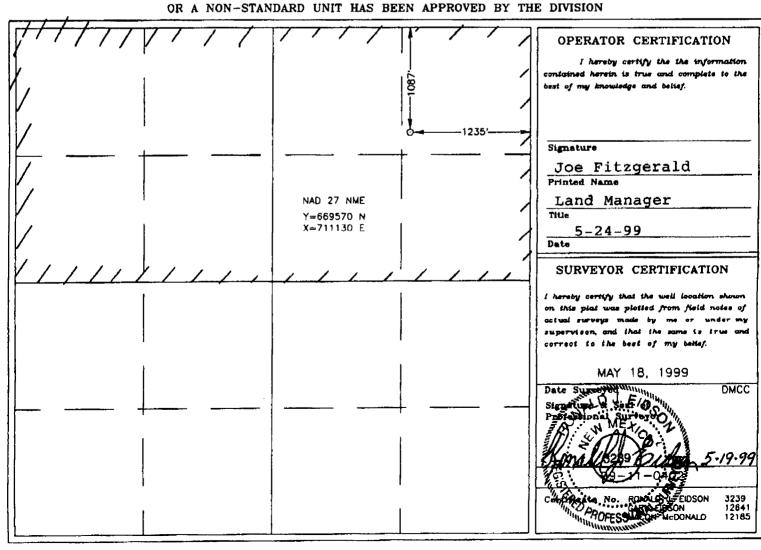
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	15	17 S	33 E		1087	NORTH	1235	EAST	LEA

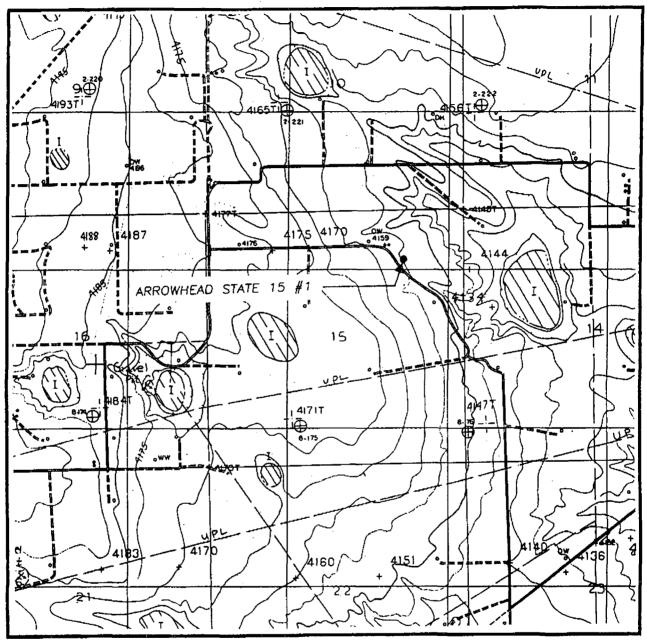
#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill Co	nsolidation (	Code Ore	der No.		<u> </u>		

### NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



## LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

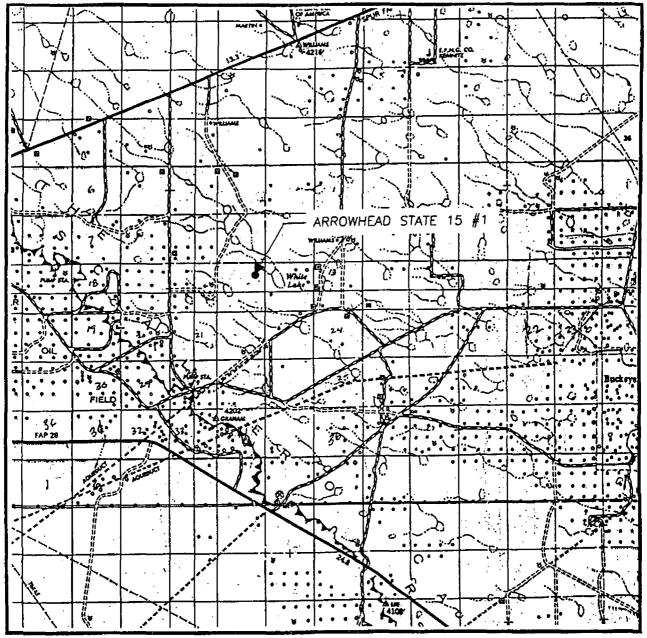
DOG LAKE, N.M.

CONTOUR INTERVAL: DOG LAKE- 10' WITH 5' SUPP.

SEC. 15 TWP. 17-S RGE. 33-E SURVEY\_\_\_\_\_N.M.P.M. COUNTY\_\_\_\_LEA DESCRIPTION 1087' FNL & 1235' FEL ELEVATION 4157 OPERATOR PATTERSON PETROLEUM, INC. LEASE ARROWHEAD STATE 15 U.S.G.S. TOPOGRAPHIC MAP

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

### VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>15</u> TWP. <u>17-\$</u> RGE. <u>33-E</u> SURVEY N.M.P.M. COUNTY\_\_\_\_LEA DESCRIPTION 1087' FNL & 1235' FEL ELEVATION 4157

OPERATOR PATTERSON PETROLEUM, INC. LEASE ARROWHEAD STATE 15

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





# Patterson Petroleum, Inc.

P.O. Box 1416 Snyder, Texas 79550

### DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM, INC. Arrowhead State 15 #1

Section 15 T-17-S R-33-E Lea County, New Mexico

	CASING	
13-3/8"	at	400'
8-5/8"	at	4,800'
5-1/2"	at	13,800'

DEPTH	MUD	WEI	GHT	VISC	cosi	TY	FLU	IID LOSS	DRILL SOLIDS	COMMENTS
0'-400'	8.6	to	9.5	32	to	45	No	control	<b>€</b> 5\$	Spud mud, Paper
400'-4800'	10.0	to	10.1	28	to	29	No	control	<b>(1</b> %	Brine water Paper, caustic
4800'-12,500'	8.4	to	9.2	28	to	29	No	control	<b>&lt;1</b> %	Fresh water, Caustic, Paper rine if needed)
12,500'-13,800'	9.0	то	9.5	36	to	42	4	10cc	<b>∢</b> 5∜	Xanthan Gum, White starch PAC, Caustic

915 685 1133

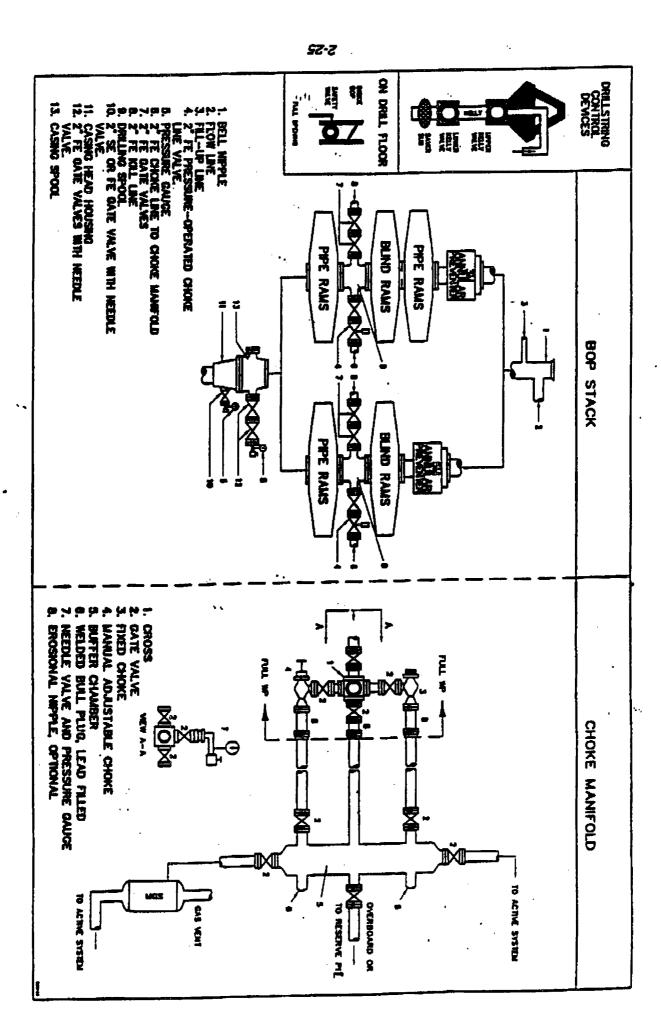


Fig. 2.5. Class 3 BOP and Choke Manifold.

### PROPOSED CASING & CEMENTING PROGRAM ARROWHEAD STATE 15 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 400 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", 32 lb/ft, J-55 & S-80 Intermediate Casing Set at 4800' - in a 11" Hole

Lead: 1600 sx of 35:65 Poz Class "C" + 5% salt + 6% gel + 1/4 ib/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

300 sx of Class "C" Neat Tail:

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 13,800' - in a 7 7/8" Hole

Set stage tool at approximately 10,500'

1 st Stage: Lead - 550 sx of 35:65 Poz Class "H" + 5% salt + 6 % gel + 3/10% ret.

+ 2/10% dispersant + 2/10% antifoamer

Slurry Weight:

13.5 ppg

Slurry Yield:

1.68 cu.ft/sk

Water Requirement:

8.76 gal/sk

1 st Stage: Tail - 250 sx of Class "H" + 5% salt + 2% gel + 3/10 % retarder + 2/10% antifoamer

Slurry Weight:

16.4 ppg

Slurry Yield:

1.09 cu.ft/sk

Water Requirement:

5.49 gai/sk

#### PROPOSED CASING & CEMENTING PROGRAM

ARF WHEAD STATE 15 WELL NO. 1

2 nd Stage: Lead - 300 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

To:

Slurry Yield:

1.95 cu.ft/sk

Water Requirement:

10.49 gal/sk

2 nd Stage: Tail - 150 sx of 50:50 Poz Class "H" + 5% salt + 2% gel + 3/10% retarder + 2/10% dispersant & antifoamer

Slurry Weight:

14.6 ppg

Slurry Yield:

1.27 cu.ft/sk

Water Requirement:

5.67 gal/sk

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Description: St. Sec. 73 (R-933, 12-78-56)

- Y Sec. 73 (R-1397, 6-1-59) - NE Sec. 73 (R-1652, 5-1-60)

Ext. 54 Sec. 22 (R-4937, 2-1-75)

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Description: NE Sec. 22 (R-1355, 4-1-59)

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F07 BKWD PF08 FWI	PF09 PRINT PI	F10 SDIV PF11	PF12

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