

1115 FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. APA30005

WELL/LEASE INFORMATION

COMPANY: APACHE CORPORATION

WELL NAME: JIC A-118 #15

LINE PRESSURE: 61 PSIG

LOCATION:

SAMPLE TEMP.: 80 DEG.F

LEASE:

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 10/6/93

METER NO.:

SAMPLED BY: CRAIG MOULTON

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.402	0.0000
CO2	0.508	0.0000
METHANE	81.450	0.0000
ETHANE	9.390	2.5616
PROPANE	4.743	1.3333
I-BUTANE	0.716	0.2389
N-BUTANE	1.347	0.4332
I-PENTANE	0.418	0.1560
N-PENTANE	0.376	0.1389
HEXANE+	0.650	0.2892
TOTAL	100.000	5.1510
COMPRESSIBILITY FACTOR	(1/Z)	1.0036
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1272.7
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1250.6
REAL SPECIFIC GRAVITY		0.7168

ANALYSIS RUN AT 15.025 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 50 PSIG

DATE RUN: 10/7/93

ANALYSIS RUN BY: SHEILA FELTMAN



The Western Company of North America

3250 South Side River Road
Farmington, New Mexico 87401
Phone (505)327-6222
Fax (505)327-5766

API WATER ANALYSIS

Company Apache Corp. W.C.N.A. Sample No. 5103994 Date Sampled _____
Field _____ Legal Description _____ County or Parish San Juan State N.M.
Lease or Unit J.C. Apache Well A11B #75 Depth _____ Formation M.V. Water S/D _____
Type of Water (Produced, Supply, etc.) Apche Flow Sampling Point _____ Sampled By _____

DISSOLVED SOLIDS

CATIONS

	mg/l	meq/l
Sodium, Na (calc.)	<u>3427</u>	<u>149</u>
Calcium, Ca	<u>40</u>	<u>2</u>
Magnesium, Mg	<u>—</u>	<u>—</u>
Sulfate, S ₄	<u>—</u>	<u>—</u>
Potassium	<u>450</u>	<u>12</u>

ANIONS

Chloride, Cl	<u>5771</u>	<u>163</u>
Sulfate, SO ₄	<u>—</u>	<u>—</u>
Carbonate, CO ₃	<u>—</u>	<u>—</u>
Bicarbonate, HCO ₃	<u>2159</u>	<u>35</u>

Total Dissolved Solids (calc.)

11,847

Iron, Fe (total)

—

Sulfide, as H₂S

—

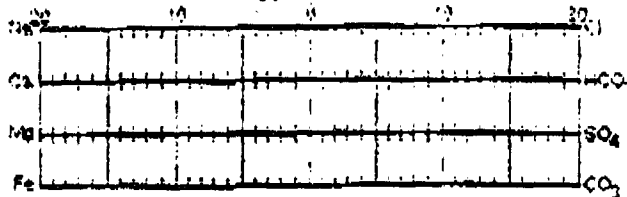
REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

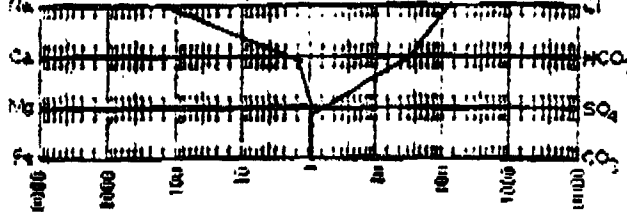
pH	<u>7.90</u>
Specific Gravity, 60/60 F.	<u>1.015</u>
Resistivity (ohm-centimeters) 70° F.	<u>.59</u>
Total Hardness	<u>300</u>

WATER PATTERNS-me/l

STANDARD



LOGARTHING



Analyst: CR DC
Date Analyzed: 3-25-94



1115 Farmington Avenue - Farmington , NM 87401
(505) 325-1085

Lab Sample No.: W93-89

Standard A.P.I. Water Analysis Report

Collected By: Russell Pullen

Company: Apache Corporation

Collection Date: 25-Mar-93

Well Name: JAT A118 #15

Collection Time: unknown

Formation: UNKNOWN DAKOTA

County: Rio Arriba State: NM

Location: UNKNOWN

Analyst: S. Spencer

Remarks: NONE

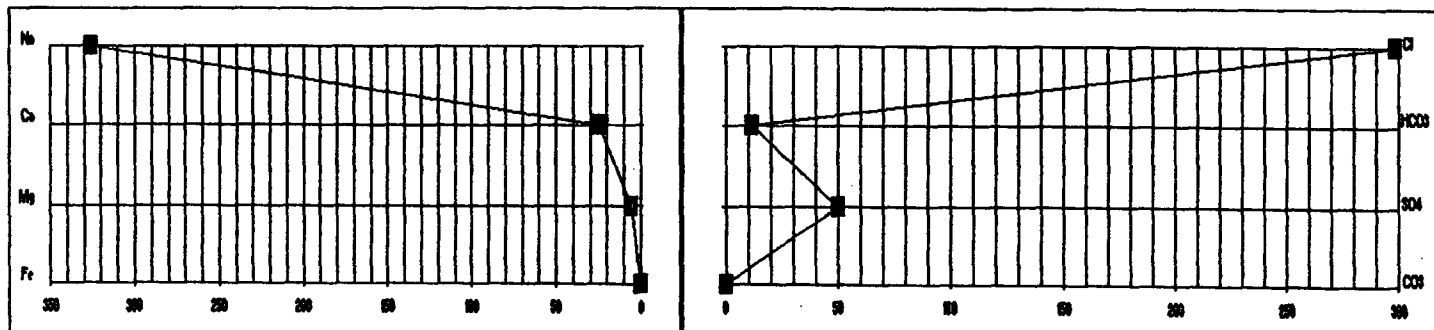
PARAMETER	as ion	Comment	PARAMETER	as ion	Comment
Sodium , Na	<u>7,500</u> mg/l		Chloride , Cl	<u>10,583</u> mg/l	
Potassium, K	<u>170</u> mg/l		Sulfate, SO ₄	<u>2406</u> mg/l	
Calcium , Ca	<u>493</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium , Mg	<u>68</u> mg/l		Carbonate, CO ₃	<u>0</u> mg/l	
Iron, Fe (Total)	<u>0.1</u> mg/l		Bicarbonate, HCO ₃	<u>704</u> mg/l	
Hydrogen Sulfide	<u>NR</u> mg/l	NR	Resistivity	<u>0.297</u> ohm-m	
pH	<u>7.60</u> Units		(@25 Degrees C)		
TDS	<u>23,130</u> mg/l		Conductivity	<u>33,700</u> uS	
			Specific Gravity	<u>1.016</u> Units	
			(@ 60 Degrees F)		

Remarks: Sample not acid preserved for iron determination. 25 ppm total iron before filtering.

NR = Test Not Run

Anion/Cation: 99.8%

Stiff Diagram



Attachment 'G'

Notification of offset operators and BLM

P 175 110 728

**Receipt for
Certified Mail**

**Robert L. Bayless
P. O. Box 168
Farmington, NM 87499**

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

**Robert L. Bayless
P. O. Box 168
Farmington, NM 87499**



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Texaco
P. O. Box 2100
Denver, CO 80201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Texaco
P. O. Box 2100
Denver, CO 80201

P 179 164 726



Receipt for Certified Mail

No Insurance Coverage Provided

G. Merrlon
c/o Merrlon Oil & Gas
P. O. Box 840
Farmington, NM 87499

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

G. Merrlon
c/o Merrlon Oil & Gas
P. O. Box 840
Farmington, NM 87499

P 179 164 726

1. Addressee's Name
2. Addressee's Address
3. Addressee's City, State, and ZIP Code
4. Addressee's Phone Number
5. Addressee's Business Title
6. Addressee's Signature
7. Addressee's Date



P 179 164 725


**Receipt for
Certified Mail**

No Insurance Coverage Provided

Mesa Grande Resources, Inc.
1200 Philtower Bldg.
Tulsa, OK 74103

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

P 179 164 721


**Receipt for
Certified Mail**

No Insurance Coverage Provided

Western Oil and Minerals, Ltd.
P.O. Drawer 1228
Farmington, NM 87499-1228

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

Article Addressed to:

Mesa Grande Resources, Inc.
1200 Philtower Bldg.
Tulsa, OK 74103

Signature (Addressee)

Signature (Agent)

PS Form 3811, December 1987

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered.

1. Article Addressed to:

Western Oil and Minerals, Ltd.
P.O. Drawer 1228
Farmington, NM 87499-1228

Signature (Addressee)

Signature (Agent)

PS Form 3811, December 1987

Article Number

2a. Service Type

☐ Registered☐ Insured☐ Certified☐ COD☐ Express Mail☐ Return Receipt for Merchandise

7. Date of Delivery

MAR 29 1994

8. Addressee's Address (Only if requested and fee is paid)

DOMESTIC RETURN RECEIPT

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address2. ☐ Restricted Delivery

Consult postmaster for fee.

4a. Article Number

4b. Service Type

☐ Registered☐ Insured☐ Certified☐ Express Mail☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

**DOMESTIC RETURN RECEIPT**

P 179 164 730



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to Curtis Newstrom	
Street and No. Meridian Oil Co.	
3535 E. 30th St.	
P.O. State and ZIP Code Farmington NM 87401	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

P 179 164 724



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Merrion Oil & Gas
P. O. Box 840
Farmington, NM 87499

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

Is your RETURN ADDRESS completed on the reverse side?

3. Article Addressed to:
Curtis Newstrom
c/o Meridian Oil Co.
3535 E. 30th St.
Farmington, NM 87401

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

I also wish to receive the following services (for an extra fee):

1. ☒ Addressee's Address
2. ☒ Restricted Delivery
Consult postmaster for fee.

4a. Article Number

P 179 164 730

4b. Service Type

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

2-14-94

8. Addressee's Address (Only if requested and fee is paid)

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:

Merrion Oil & Gas
P. O. Box 840
Farmington, NM 87499

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

4a. Article Number

P 179 164 724

4b. Service Type

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

MAR 28 1994

8. Addressee's Address (Only if requested and fee is paid)

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:

Reading & Bates Petroleum Co.
c/o RB Operating Company
P. O. Box 94990
Tulsa, OK 74194

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

4a. Article Number

P 179 164 720

4b. Service Type

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

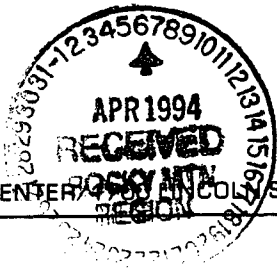
7. Date of Delivery

MAR 28 1994

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

Thank you for using Return Receipt Service.



SUITE 2000 ONE NORWEST CENTER/400 LINCOLN STREET/DENVER, CO 80203-4520

303/837-5000

March 22, 1994

Western Oil and Minerals, Ltd
P.O. Drawer 1228
Farmington, NM 87499-1228

Apache Corporation
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos/Dakota and Mesa Verde formations Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

As an offset operator to this well, we are required to notify you of this filing and give you the option of approving or disapproving out intent of commingling.

Enclosed are two (2) self addressed envelopes - one addressed to us and the other to David Catanach in the Santa Fe office of the NMOCD.

We would like to request that you mark your preference on this letter and mail one to us and the other to Mr. Catanach.

Thank you for your efforts and consideration in this matter.

Sincerely,

RE Poirrier

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE ☒
DISAPPROVE
SIGNATURE *David Catanach*
TITLE *Gen. Partner*
DATE *4-4-94*



March 22, 1994

G. Merrion
c/o Merrion Oil & Gas
P.O. Box 840
Farmington, NM 87499

APACHE CORPORATION
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos and Dakota formations in the Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

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Thank you for your efforts and consideration in this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "RE Poirrier".

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District

APPROVE 8
DISAPPROVE _____
SIGNATURE T. G. Merrion
TITLE President
DATE 4-8-94



Merrion Oil & Gas
P.O. Box 840
Farmington, NM 87499



March 22, 1994

APACHE CORPORATION
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

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Sincerely,

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Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District

APPROVE ☒
DISAPPROVE
SIGNATURE T. G. Merrion
TITLE President
DATE 4-8-94



STATE 2008 NEW YORK WEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520



303/837-5000

March 22, 1994

Texaco
P.O. Box 2100
Denver, CO 80201

APACHE CORPORATION
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

WESTERN E&P REGION JOINT INTEREST OPERATION DATE RECEIVED MAR 24 1994			
RHK	RSC	JEK	
	SPY	JBF	
	LJS	JWP	
RWH	BWS	JDD	
ELL			
BEM	PRM		
SEM	KIO	WRV	
HANDL	JSM	SL	
NOTE	MSK	ELC	
FILE	ALL IN RD	ACCT. MGR.	

Dear Operator,

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Thank you for your efforts and consideration in this matter.

Sincerely,

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District

APPROVE X
DISAPPROVE _____
SIGNATURE [Signature]
TITLE Account Manager
DATE 4/12/94



SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520

303/837-5000



March 22, 1994

Robert L. Bayless
P.O. Box 168
Farmington, NM 87499

Apache Corporation
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos/Dakota and Mesa Verde formations Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

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Sincerely,

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE ☒
DISAPPROVE
SIGNATURE
TITLE
DATE 4.14.94



March 22, 1994

Mountain States
P.O. Box 1936
Roswell, NM 88201

Apache Corporation
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos/Dakota and Mesa Verde formations Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

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Thank you for your efforts and consideration in this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "RE Poirrier".

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE _____
DISAPPROVE _____
SIGNATURE _____
TITLE _____
DATE _____

3/25/94 MOUNTAIN STATES IS NOT AN OFFSET OPERATOR TO THIS LOCATION.

Attachment 'H'

Ownership of the zones is common

SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520



303/837-5000

This is to certify that MW Petroleum (Managed by Apache Corp.) has 100 % ownership of both the Gallup/Dakota and the Mesa Verde formations in the Jicarilla Apache A118-15 well in SESE Sec. 25 T26N R3W in Rio Arriba County, NM.

55D
OIL CONSERVATION DIVISION
RECEIVED

'94 APR 12 AM 8 49



SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520

303/837-5000

March 22, 1994

G. Merrion
c/o Merrion Oil & Gas
P.O. Box 840
Farmington, NM 87499

APACHE CORPORATION
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

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Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District

APPROVE ☒
DISAPPROVE
SIGNATURE J. G. Merrion
TITLE President
DATE 4-8-94

MAR 28 1994

OIL CONSERVATION DIVISION
RECEIVED



SUITE 2000 ONE NORWEST CENTER / 1700 LINCOLN STREET / DENVER, CO 80203-4520

303/837-5000

March 22, 1994

Robert L. Bayless
P.O. Box 168
Farmington, NM 87499

Apache Corporation
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

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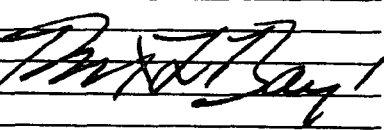
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Sincerely,

A handwritten signature in cursive script, appearing to read 'Bobby Poirrier Jr.'.

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE 
DISAPPROVE
SIGNATURE 
TITLE
DATE

4.14.94

OIL CONSERVATION DIVISION
RECEIVED



SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-9911

303/837-5000

March 22, 1994

Mountain States
P.O. Box 1936
Roswell, NM 88201

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Thank you for your efforts and consideration in this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Bobby Poirrier Jr.", written over a horizontal line.

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE	_____
DISAPPROVE	_____
SIGNATURE	_____
TITLE	_____
DATE	_____

3/25/94 MOUNTAIN STATES IS NOT AN OFFSET OPERATOR TO THIS LOCATION.

OIL CONSERVATION DIVISION
RECEIVED

'94 APR 7 AM 8 49

CORPORATION

SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520

303/837-5000

March 22, 1994

Western Oil and Minerals, Ltd
P.O. Drawer 1228
Farmington, NM 87499-1228

Apache Corporation
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos/Dakota and Mesa Verde formations Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

As an offset operator to this well, we are required to notify you of this filing and give you the option of approving or disapproving out intent of commingling.

Enclosed are two (2) self addressed envelopes - one addressed to us and the other to David Catanach in the Santa Fe office of the NMOCD.

We would like to request that you mark your preference on this letter and mail one to us and the other to Mr. Catanach.

Thank you for your efforts and consideration in this matter.

Sincerely,

RE Poirrier

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District
(303) 837-5442

APPROVE ☒
DISAPPROVE
SIGNATURE *Jack Beatty*
TITLE *Sup. Eng.*
DATE *4/4/94*

OIL CONSERVATION DIVISION
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SUITE 2000 ONE NORWEST CENTER/1700 LINCOLN STREET/DENVER, CO 80203-4520



303/837-5000

March 22, 1994

Merrion Oil & Gas
P.O. Box 840
Farmington, NM 87499

APACHE CORPORATION
1700 Lincoln, Suite 2000
Denver, CO 80203-9911

Dear Operator,

We are presently filing for an exception to the New Mexico Oil Conservation Division's rule 303-A to permit us to commingle the Gavilan Mancos and Dakota formations in the Jicarilla Apache A118-#15 well (SESE SEC. 25 TWP. 26N R3W)

As an offset operator to this well, we are required to notify you of this filing and give you the option of approving or disapproving out intent of commingling.

Enclosed are two (2) self addressed envelopes - one addressed to us and the other to David Catanach in the Santa Fe office of the NMOCD.

We would like to request that you mark your preference on this letter and mail one to us and the other to Mr. Catanach.

Thank you for your efforts and consideration in this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "Bobby Poirrier Jr.", written over a horizontal line.

Bobby Poirrier Jr.
Production Engineer
APACHE CORPORATION
Farmington District

APPROVE 8
DISAPPROVE _____
SIGNATURE J. G. Merrion
TITLE President
DATE 4-8-94

MAR 28