

State C Tract 12 #16

2-21-05 DATE IN	3-14-05 SUSPENSE	ENGINEER <i>AES</i>	LOGGED IN <i>ms</i>	TYPE <i>NSL</i>	<i>PMESD-</i> APP NO. 508147983
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
Print or Type Name

Signature

Attorney for Applicant
Title

2/20/05
Date

jamesbruc@aol.com
e-mail Address

RECEIVED
FEB 21 2005
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

February 21, 2005

Hand Delivered

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Request to Amend Division Administrative Order NSL-5007(SD) to include the San Andres formation

Dear Mr. Stogner:

Pursuant to Division Rule 104.F(2), Apache Corporation applies for administrative approval of an unorthodox oil well location in the San Andres formation for the following well:

<u>Well:</u>	State C Tract 12 Well No. 16
<u>Location:</u>	110 feet FNL & 1310 feet FWL
<u>Well Unit:</u>	NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico

The well was originally drilled to and completed in the Grayburg formation (Penrose Skelly (Grayburg) Pool). The Grayburg unorthodox location was approved by NSL-5007-SD.

The well is in the East Hare-San Andres (Oil) Pool,¹ which is developed on statewide rules, with 40 acre spacing and wells to be located no closer than 330 feet to a quarter-quarter section line.

The application is based on several reasons: (1) the well was drilled to the Grayburg, with a "tail" in the San Andres formation, and thus testing the San Andres will be very economical; and (2) applicant's other San Andres wells in this township indicate that there are San Andres reserves underlying this lease. A complete discussion, with appropriate exhibits, is attached as Exhibit A.

¹ See Division Order No. R-12190.

Applicant has an ongoing program to drill infill Grayburg (and other) wells in this township, and the San Andres, which lies immediately below the Grayburg, can be accessed at a low cost. In some cases it may not be economically feasible to drill a stand alone San Andres well, and completing the wells in both zones makes the wells more economical and extends their lives, thus preventing waste and protecting correlative rights.

Attached as Exhibit B is a land plat, highlighting the proposed well's location. The operating rights owners in the lease on which the well is located, and in the offsetting lease, are as follows:

U.S. Lease NM 90161 (Hawk B-1 Lease)

Apache Corporation
Chevron Texaco Inc.
BP America Production Company

State Lease B-1557-1 (State C Tract 12 Lease)

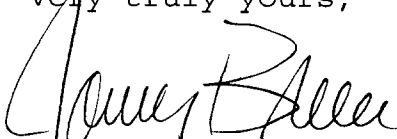
Apache Corporation

To allocate well costs and production equitably between the two leases, the operating rights owners have entered into a Cooperative Well Agreement, which was submitted with the original application. The Cooperative Well Agreement has now been amended to include the San Andres formation, as shown on Exhibit C. Please note that the distribution of proceeds of production from the San Andres formation will be the same as that in the Grayburg formation.

All interest owners, including the Bureau of Land Management, have approved the Amendment to Cooperative Well Agreement. In addition, for purposes of allocation of production, the Commissioner of Public Lands previously approved a communitization agreement covering the S $\frac{1}{4}$ SW $\frac{1}{4}$ §9 and N $\frac{1}{4}$ NW $\frac{1}{4}$ §16, which was submitted with the original application. The communitization agreement has now been amended to include the San Andres formation, as shown on Exhibit D. This is done for purposes of allocation of production, and is not meant to change the 40 acre proration unit dedicated to the well. Because all interest owners have approved this application, notice has not be given to anyone.

Please call me if you need any further information on this matter.

Very truly yours,



James Bruce

Attorney for Apache Corporation

Application of Apache Corporation for administrative
approval of an unorthodox well location:

40 acres – 110' FNL & 1310' FWL
Section 16, Township 21 South, Range 37 East, NMPM
Lea County, New Mexico

PRIMARY OBJECTIVE: SAN ANDRES

In support:

1. Apache Corporation (Apache) is the operator of the **State C Tract 12 #16** well. The total depth drilled is 4350' in the San Andres formation. The well is currently perforated in and productive from the Grayburg.
2. The well was drilled in the Penrose Skelly; Grayburg Oil Pool with a "tail" into the San Andres Formation. Administrative Order NSL-5007 was issued for the Grayburg reservoir. Order R-12190 now extends the East Hare San Andres Oil Pool over this location. As to the San Andres reservoir, the location encroaches toward the following wells (**Exhibit 1**).

OPER	WELL	LOC	RESERVOIR	CUM O/G/W	DAILY O/G/W
Apache	Hawk B-1 #40	09-M	San Andres	1/13/13	17/510/256
Apache	State C Tr 12 #15	16-C	San Andres	0/12/7	8/216/118

MBO BOPD
MMCFG MCFGPD
MBW BWPD

3. The unorthodox **State C Tract 12 #16** San Andres location of 110' from north line and 1310' from west line is based upon wellbore availability:
 - a. **Exhibit 2** (San Andres Net Pay) illustrates that sufficient reservoir is present to contain and produce commercial amounts of hydrocarbons.
 - b. Oil production from the San Andres is newly established in the immediate area. Drilling a separate well for these reserves is not economically prudent.
 - c. The following table provides drainage areas calculated from the net pay map and reserves of offsetting San Andres wells.

OPER	WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Apache	Hawk B-1 #40	09-M	40	33	1200
Apache	State C Tr 12 #15	16-C	40	21	1050

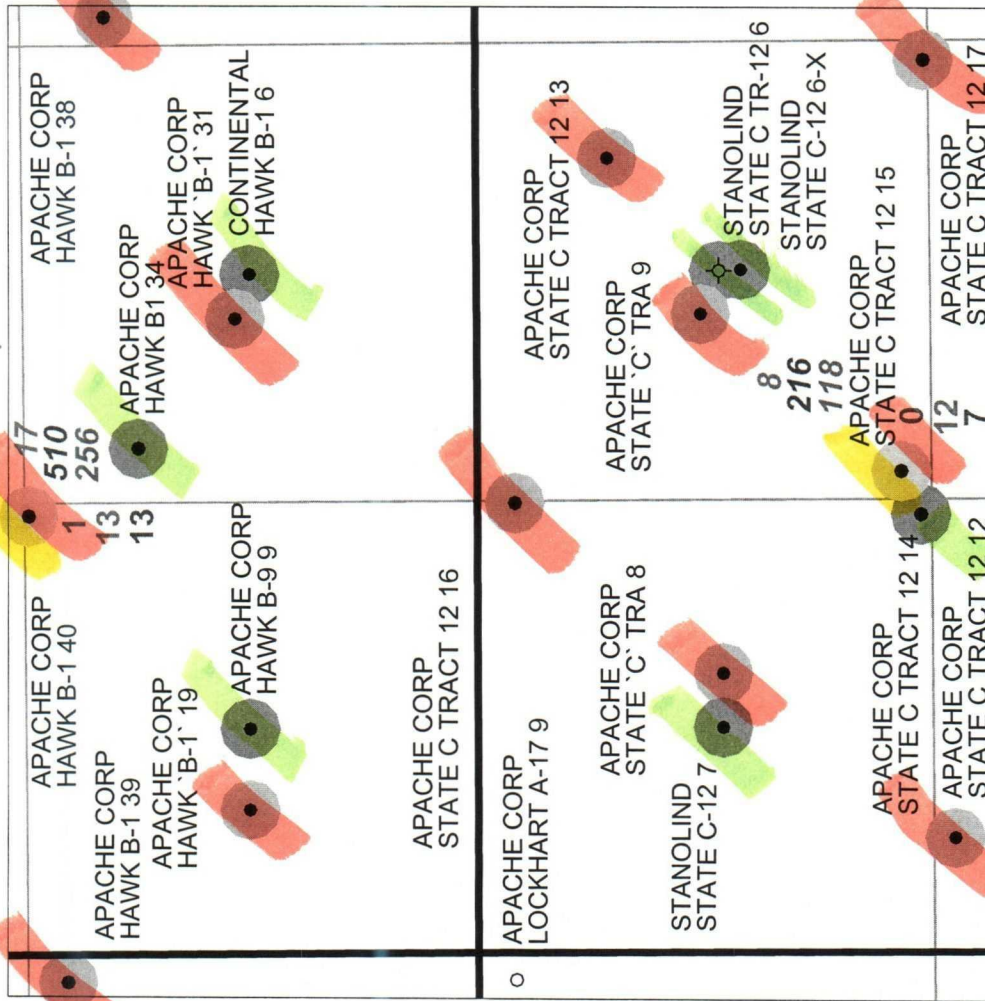


d) Volumetrics and reserves for the **State C Tract 12 #16** are:

WELL	LOC	AREA A	EUR MBO	EUR MMCFG
State C Tract 12 #16	16-D	40	20	982

4. Notice

- a. Apache will be the operator of all San Andres wells toward which the **State C Tract 12 #16** would encroach. The Hawk Federal Lease covers, among other acreage the SW/4 Section 9, and the State C Tract 12 Lease covers the NW/4 Section 16. Interest ownership being Apache Corp., ChevronTexaco, and BP America Production Co. in the San Andres Formation are common in the lease. Therefore, there are no adversely affected parties, and no one was notified of this application.
5. Approval of this application will afford the interest owners in this spacing unit an opportunity to recover oil and gas which would not otherwise be recovered. Correlative rights of the offsetting units will be protected by a sharing agreement set forth in a letter agreement.



WELL SYMBOLS

- Location Only
- Oil Well
- ⊗ Gas Well
- ⊘ Dry

POSTED WELL DATA

CURRENT BOPD
CURRENT MCFD
CURRENT BWPD

● OPERATOR WELL LABEL
MBO
MMCFG
MBW



TWO WARREN PLACE, SUITE 1500
6120 SOUTH YALE
TULSA, OKLAHOMA 74136-4224

CENTRAL REGION

STATE C TR. 12 #16

SEC 16-T21S-R37E
LEA COUNTY, NEW MEXICO

EXHIBIT 1
WELL INFORMATION

DATE: 5/26/04 DWG: PROD (CURTIS/OCD-NM/2004 SAN ANDRES)

YATES-SEVEN RIVERS-QUEEN

GRAYBURG

SAN ANDRES

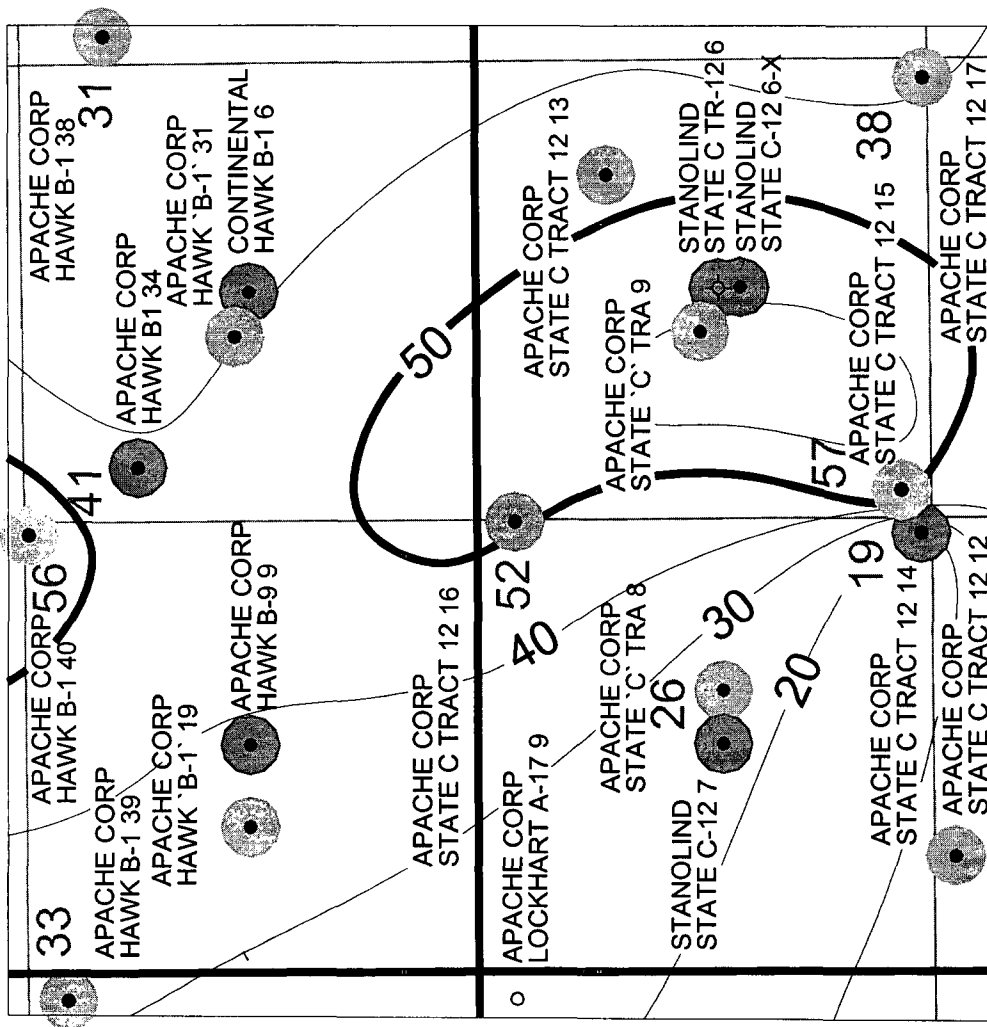
BLINEBRY-TUBBS-DRINKARD

ABO

LOWER PALEOZOIC

0 500 1,000 1,500

FEET




POROSITY $\geq 6\%$
 GAMMA RAY ≤ 30 APIU
 WATER SATURATION $\leq 50\%$

WELL SYMBOLS

- Location Only
- Oil Well
- ☼ Gas Well
- ⊙ Dry

POSTED WELL DATA

SAN ANDRES
 NET PAY ● OPERATOR
 WELL LABEL



APACHE CORPORATION
CENTRAL REGION

TWO WARREN PLACE, SUITE 1500
 6120 SOUTH YALE
 TULSA, OKLAHOMA 74136-4224

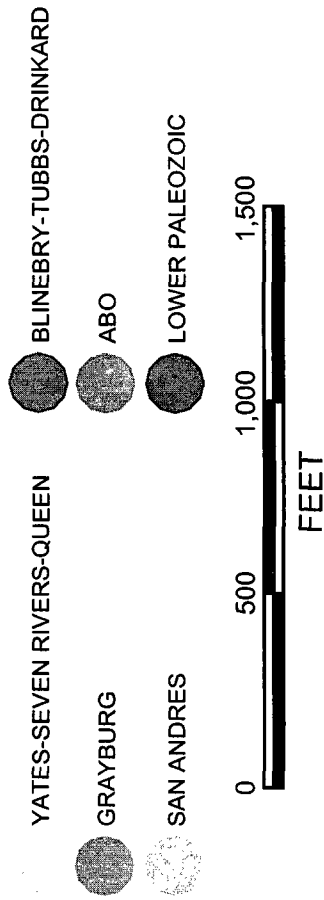
STATE C TR. 12 # 16

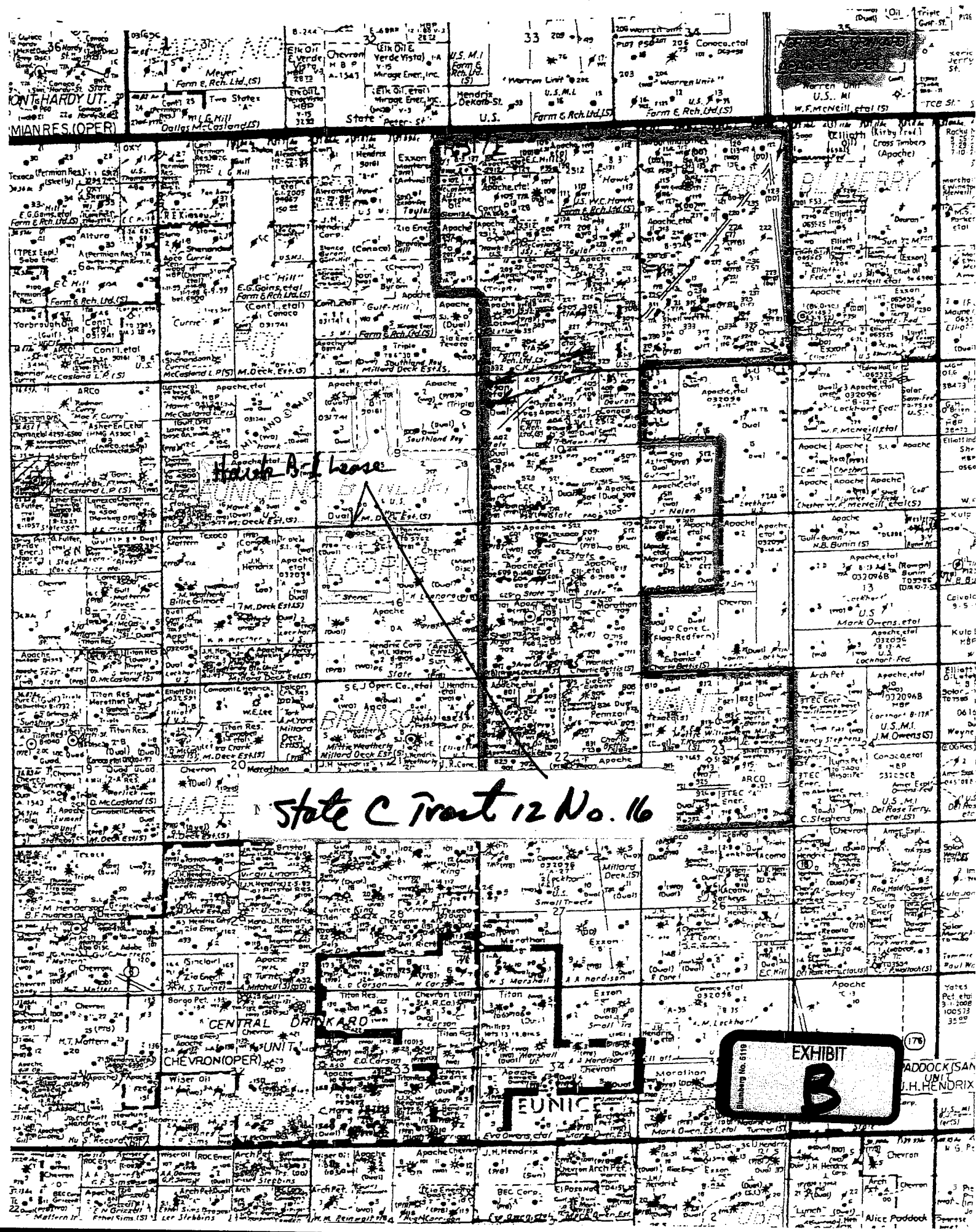
SEC 16-T21S-R37E
 LEA COUNTY, NEW MEXICO

EXHIBIT 2

SAN ANDRES
 NET PAY

DATE: 5/26/04 DWG: PROD (CURTIS/OCD-NM/2004 SAN ANDRES)





AMENDMENT TO COOPERATIVE WELL AGREEMENT
(for the State C Tract 12 #16 Well)

THIS AGREEMENT, made and entered into this 25th day of October, 2004, by and between the undersigned parties hereto:

WITNESSETH, THAT

WHEREAS, parties hereto or their predecessors in interest have heretofore entered into a certain Cooperative Well Agreement described as follows:

Cooperative Well Agreement dated 1st day of December, 2003 between Apache Corporation, as Operator, and BP America Production Company and Chevron U.S.A. INC, Non-Operators covering the S/2 SW/4 (Hawk B-1 Lease) in Section 9, Township 21 South, Range 37 East, N.M.P.M., and N/2 NW/4 (State C Tract 12 Lease) in Section 16, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico

and,

WHEREAS, the undersigned Parties each own undivided operating rights in and to the Hawk B-1 Lease, the State C Tract 12 Lease and the oil and gas leasehold estate in the lands affected thereby, and do hereby desire to amend said agreement so as to provide for development of Grayburg and San Andres production as hereinafter provided.

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed that the Cooperative Well Agreement referred to above and any amendments thereof or supplemental agreements pertaining thereto, are hereby amended by deleting therefrom the following, to wit:

1. DESIGNATION AND RESPONSIBILITY OF OPERATOR

B. Operator shall drill, complete and operate the Cooperative Well for oil and/or Gas production from horizons encountered from the surface of the earth down to and including the base of the **Grayburg** Formation as follows:

State C Tract 12 #16 Well:

SURFACE LOCATION:	110' FNL & 1,310' FWL, Sec. 16, T21S-R37E, Lea County, New Mexico,
Planned Total Depth:	4,150 feet, but in no event below the base of The Grayburg Formation plus one hundred (100) feet for operational purposes only.

C. Operator shall establish and maintain a Joint Account for the performance hereof, and shall advance all costs incurred in connection with operating the Cooperative Well and shall charge the Joint Account for all such costs on the basis provided in Exhibit "C" - Accounting Procedure, NMFU Operating Agreement. All charges and credits to the Joint Account for the Cooperative Well shall be borne, and production therefrom will be shared, including but not limited to charges, credits and production associated with recompletions of the Cooperative Well to horizons shallower than the **Grayburg** formation, by the below named Parties in the percentage shown opposite their name as follows:

Apache:	80.07%
BP	9.965%
Chevron	9.965%

All other operations conducted or wells drilled on the lands described above not related to the Cooperative Well, will not be affected by this Agreement.



If any provision of Exhibit "C" - Accounting Procedure is inconsistent with any provision in this Agreement, the provisions of this Agreement shall prevail.

and substituting therefore the following provisions:

1. DESIGNATION AND RESPONSIBILITY OF OPERATOR

B. Operator shall drill, complete and operate the Cooperative Well for oil and/or Gas production from horizons encountered from the surface of the earth down to and including the base of the **San Andres** Formation as follows:

State C Tract 12 #16 Well:

SURFACE LOCATION:	110' FNL & 1,310' FWL, Sec. 16, T21S-R37E, Lea County, New Mexico,
Planned Total Depth:	4,350 feet, but in no event below the base of The San Andres Formation plus one hundred (100) feet for operational purposes only.

C. Operator shall establish and maintain a Joint Account for the performance hereof, and shall advance all costs incurred in connection with operating the Cooperative Well and shall charge the Joint Account for all such costs on the basis provided in Exhibit "C" - Accounting Procedure, NMFU Operating Agreement. All charges and credits to the Joint Account for the Cooperative Well shall be borne, and production therefrom will be shared, including but not limited to charges, credits and production associated with recompletions of the Cooperative Well to horizons shallower than the **San Andres** formation, by the below named Parties in the percentage shown opposite their name as follows:

Apache:	80.07%
BP	9.965%
Chevron	9.965%

All other operations conducted or wells drilled on the lands described above not related to the Cooperative Well, will not be affected by this Agreement.

If any provision of Exhibit "C" - Accounting Procedure is inconsistent with any provision in this Agreement, the provisions of this Agreement shall prevail.

Notwithstanding anything to the contrary contained elsewhere in this Agreement, Operator shall not commence actual completion and/or commingling operations for the Cooperative Well until this Agreement has been approved by the Authorized Officer of the Bureau of Land Management and a Communitization Agreement covering production from the Cooperative Well has been approved by the Commissioner of Public Lands of the State of New Mexico.

Except as herein provided, the Cooperative Well Agreement referred to above shall remain in full force and effect in accordance with its terms and provisions.

THIS AGREEMENT shall be effective as of the date of Grayburg and San Andres first production from the Cooperative Well, and shall be binding as to each party executing the same, its successors or assigns, and it may be executed in separate counterparts with like effect as if all parties had executed the same instrument, which shall be considered as an original for all purposes.

IN WITNESS WHEREOF, the parties have caused the execution of this instrument to be effective on the effective date first above written

APACHE CORPORATION

By: [Signature]
Rob Johnston
Vice President
Central Region

Mk

BP AMERICA PRODUCTION COMPANY

By: _____
Printed Name: _____
Title: _____

CHEVRON U.S.A. INC.

By: C. D. Frisbie
Printed Name: C. D. Frisbie
Title: Attorney-in-Fact

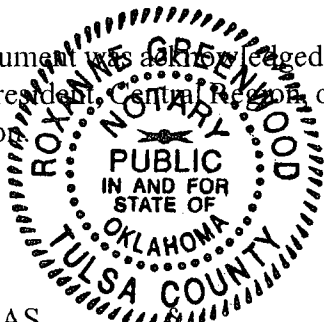
BUREAU OF LAND MANAGEMENT

By: [Signature]
Printed Name: LARRY D. BRAY
Title: AFM LANDS & MINERALS

JAN 04 2005

STATE OF OKLAHOMA §
§
COUNTY OF TULSA §

This instrument was acknowledged before me this 1st day of November, 2004, by Rob Johnston, Vice President, Central Region, of Apache Corporation, a Delaware corporation, on behalf of said corporation.



[Signature]
Notary Public, State of Oklahoma
00015619

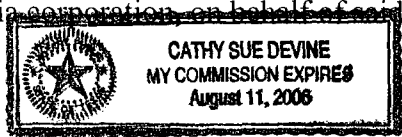
STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me this ____ day of _____, 2004, by _____ of BP America Production Company, a Delaware corporation, on behalf of said corporation.

Notary Public, State of Texas

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me this 8th day of December, 2004, by C. D. Frisbie, Attorney-in-Fact of Chevron U.S.A. Inc., a Pennsylvania corporation, on behalf of said corporation.



[Signature]
Notary Public, State of Texas

STATE OF NEW MEXICO §
§
COUNTY OF LEA §

This instrument was acknowledged before me this ____ day of _____, 2004, by _____, Authorized Officer of the Bureau of Land Management on behalf of the Bureau of Land Management.

Notary Public, State of New Mexico

APACHE CORPORATION

By: [Signature]
Rob Johnston
Vice President
Central Region

BP AMERICA PRODUCTION COMPANY

By: [Signature] ^{MED}
Printed Name: Edmund M. Sierra
Title: Attorney-in-Fact

CHEVRON U.S.A. INC.

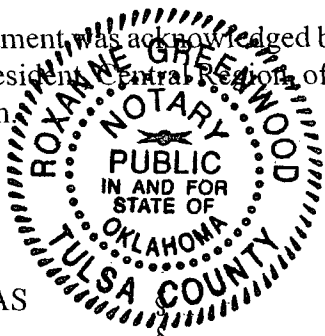
By: _____
Printed Name: _____
Title: _____

BUREAU OF LAND MANAGEMENT

By: [Signature] JAN 6 2004
Printed Name: LARRY V. BRAY
Title: BLM LANDS & MINERALS

STATE OF OKLAHOMA §
§
COUNTY OF TULSA §

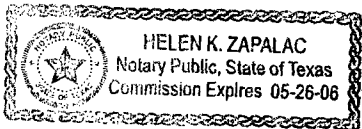
This instrument was acknowledged before me this 1st day of November, 2004, by Rob Johnston, Vice President, Central Region, of Apache Corporation, a Delaware corporation, on behalf of said corporation.



[Signature]
Notary Public, State of Oklahoma
00015619

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me this 18 day of Nov, 2004, by Edmund M. Sierra, Attorney-In-Fact of BP America Production Company, a Delaware corporation, on behalf of said corporation.



[Signature]
Notary Public, State of Texas

STATE OF TEXAS §
§
COUNTY OF §

This instrument was acknowledged before me this ____ day of _____, 2004, by _____ of Chevron U.S.A. Inc., a Pennsylvania corporation, on behalf of said corporation.

Notary Public, State of Texas

STATE OF NEW MEXICO §
§
COUNTY OF LEA §

This instrument was acknowledged before me this ____ day of _____, 2004, by _____, Authorized Officer of the Bureau of Land Management on behalf of the Bureau of Land Management.

Notary Public, State of New Mexico



RECEIVED

NOV 12 2004

TULSA
LAND DEPT

PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

November 8, 2004

Apache Corporation
Two Warren Place, Suite 1500
6120 South Yale
Tulsa, Oklahoma 74136-4224

Attn: Mario R. Moreno, Jr.

Re: Communitization Agreement Approval: Amendment
State C Tract 12 Well No. 16
S2SW4, Section 9, and N2NW4, Section 16, Township 21 South, Range 37 East
Lea County, New Mexico

Dear Mr. Moreno:

The Commissioner of Public Lands approved the State C Tract 12 Well No. 16 Communitization Agreement for the S2SW4, Section 9, and N2NW4, Section 16, Township 21 South, Range 37 East, Lea County, New Mexico on January 23, 2004, effective December 5, 2003.

You have requested by letter dated November 4, 2004, that the San Andres formation be added as a communitized interval to the existing Grayburg formation. You have included with your request the appropriate ratification(s) required to process this request.


Therefore, the Communitization Agreement has been amended to reflect the change referenced above. The effective date of the agreement will remain unchanged from the referenced date in the original approval, December 5, 2003. Also enclosed you will find five amended Certificates of Approval reflecting the change noted above.



If we may be of further service, please contact Jeff Albers at (505) 827-5759.

Sincerely,

PATRICK H. LYONS
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Director
Oil, Gas & Minerals Division
(505) 827-5744
PHL/JB/ja

NEW MEXICO STATE LAND OFFICE

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

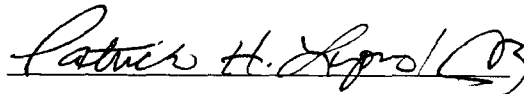
Apache Corporation
State C Tract 12 Well No. 16
Lea County, New Mexico
S2SW4, Section 9, and N2NW4, Section 16, Township 21 South, Range 37 East
Grayburg and San Andres (AMENDED)

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, a Communitization Agreement for the development and operation of acreage which is described within the referenced agreement, dated **December 5, 2003** which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this **8th day of November, 2004**.


COMMISSIONER OF PUBLIC LANDS
of the State of New Mexico