30-025-36664 Hawa B-1 #41

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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



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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-5031(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:

Well: Hawk B-1 Well No. 41

Location: 2590 feet FSL & 2630 feet FWL

Well Unit: NE%SW% of Section 9, 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-5031-SD.

The well is in the East Hare-San Andres (Oil) Pool, 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.

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 S% and E%NW% of Section 9 are covered by U.S. Lease NM 90161 (the Hawk B-1 Lease), and the NE% of Section 9 is covered by the "Southland Royalty" fee lease. The operating rights owners in the leases are as follows:

U.S. Lease NM 90161
Apache Corporation
Chevron Texaco Inc.
BP America Production Company

Southland Royalty 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. As a result, notice of this application need not be given to any interest owner.

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

Very truly yours,

Attorney for Apache Corporation

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

40 acres – 2590' FSL & 2630' FWL Section 9, 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 **Hawk B-1 #41** 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-5031 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 no currently productive San Andres well (Exhibit 1).
- 3. The unorthodox **Hawk B-1 #41** San Andres location of 2590' from south line and 2630' 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) Volumetrics and reserves for the **Hawk B-1 #41** are:

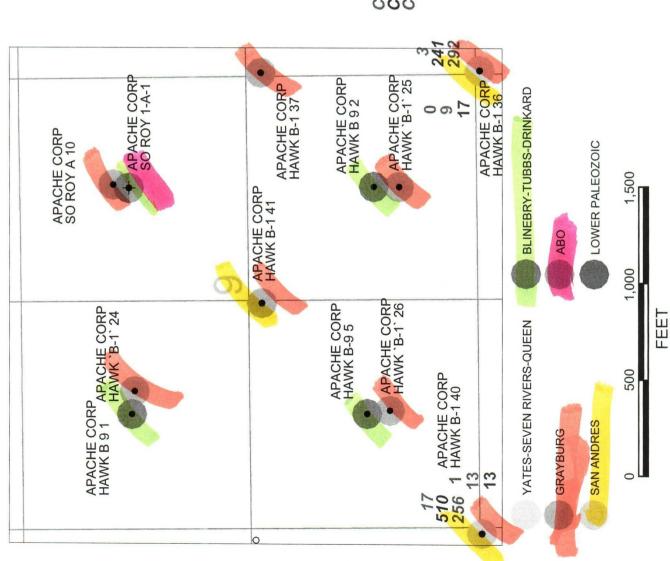
WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Hawk B-1 #41	09-K	40	10	511

4. Notice

a. Apache will be the operator of all San Andres wells toward which the Hawk B-1 #41 would encroach. The Hawk Federal Lease covers, among other acreage the SE/4 Section 9, and the Southland Royalty Lease covers among other acreage the NE/4 Section 9. 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 • OPERATOR CURRENT BWPD MBO MMCFG

MBW

CENTRAL REGION

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

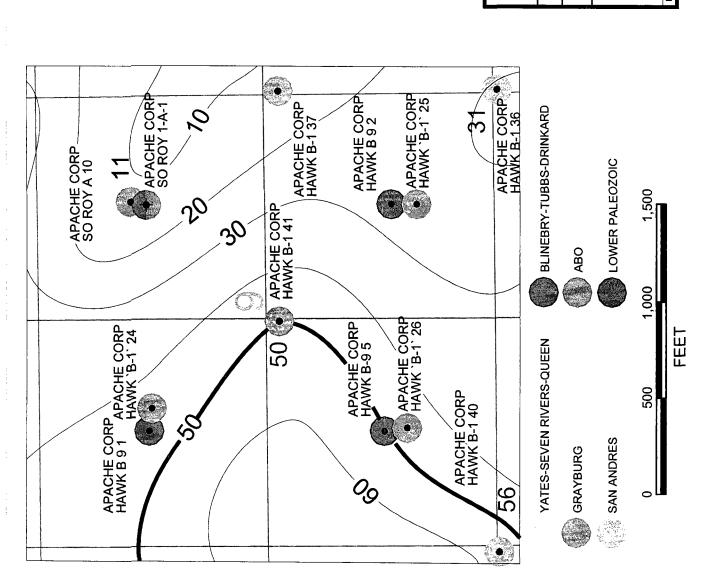
HAWK B-1 #4

SEC 9-TZ1S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 1

WELL INFORMATION

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



POROSITY ≥ 6% GAMMA RAY ≤ 30 APIU WATER SATURATION ≤ 50%

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WELL SYMBOLS

- Location Only
- Oil Well
- ⇔ Gas Well
 - -⊹ Ory

POSTED WELL DATA

SAN ANDRES NET PAY OPERAT

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

HAWK B-1 #4

SEC 17-TZ1S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 2 SAN ANDRES

NET PAY

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

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AMENDMENT TO COOPERATIVE WELL AGREEMENT (for the Hawk B-1 # 41 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 SE/4 NW/4, NE/4 SW/4, NW/4 SE/4 (Hawk B-1 Lease) and the SW/4 NE/4 (Southland Royalty "A" Lease) all in Section 9, 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, and the Southland Royalty "A" 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:

Hawk B-1 # 41 Well:

SURFACE LOCATION: Lea County, New Mexico,

Planned Total Depth:

2,590' FSL & 2,630' FWL, Sec. 9, T21S-R37E,

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:	59.9750%
BP	20.0125%
Chevron	20.0125%

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. <u>DESIGNATION AND RESPONSIBILITY OF OPERATOR</u>

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:

Hawk B-1 # 41 Well:

SURFACE LOCATION: Lea County, New Mexico, Planned Total Depth: 2,590' FSL & 2,630' FWL, Sec. 9, T21S-R37E,

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:	59.9750%
BP	20.0125%
Chevron	

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.

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	BP AMERICA PRODUCTION COMPANY
By: Rob Johnston Vice Fresident Central Region	By: Printed Name: Title:
CHEVRON U.S.A. INC.	BUREAU OF LAND MANAGEMENT
By: C.D. Frighte Printed Name: C.D. Frighte Title: A Horney-in - Pact	By: Jan D. JAN D 4 28 Printed Name: 18RY D. BRAY Title: PFM LANDS VM. NERALS
STATE OF OKLAHOMA §	
COUNTY OF TULSA §	
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COUNTY OF HARRIS §	
This instrument was acknowledged,,,,, Company, a Delaware corporation, on behal	before me this day of, 2004, by of BP America Production f of said corporation.
	Notary Public, State of Texas
STATE OF TEXAS § COUNTY OF HARRIS §	•
This instrument was acknowledged C.D. Frishie, Affennsylvania corporation, on behalf of said CATHY SUE DEVINE MY COMMISSION EXPIRES	before me this 8th day of December, 2004, by folially - Iw - Fre + of Chevron U.S.A. Inc., a corporation.
August 11, 2006	Notary Public, State of Texas
STATE OF NEW MEXICO \$ COUNTY OF LEA \$	
	d before me this day of, 2004, athorized Officer of the Bureau of Land Management on

Notary Public, State of New Mexico

APACHE CORPORATION		BP AMERICA PRODUCTION COMPANY
By: Rob Johnston Vice Rresident Central Region	MW	By: Lastured M. Sierra Printed Name: Edmund M. Sierra Title: Attorney-in-Fact
CHEVRON U.S.A. INC.		BUREAU OF LAND MANAGEMENT
By: Printed Name: Title:	· · · · · · · · · · · · · · · · · · ·	By: Samy D. Sugy Printed Name: LANDS + MINERALS
STATE OF OKLAHOMA	§ &	
COUNTY OF TULSA	§	
This instrument was all Johnston, Vice Presidents Cells of said corporation.	knowledged before not alkerion, of Apach OTA CONTROL OF STATE OF	ne this 1st day of November, 2004, by Rob e Corporation, a Delaware corporation, on behalf Rotary Public, State of Oklahoma
STATE OF TEXAS	CONNIN	•
COUNTY OF HARRIS	§ §	
This instrument was a Edmund M. Sierra Company a Delaware corpora	cknowledged before	ome this 18 day of 0 0, 2004, by of BP America Production and corporation.
HELEN K. Notary Public,	SSSSSSSSS	Notary Public, State of Texas
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This instrument was a	,	e me this day of, 2004, by of Chevron U.S.A. Inc., a ration.
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by	, Authorize	re me this day of, 2004, ed Officer of the Bureau of Land Management on
behalf of the Bureau of Land	Management.	

Notary Public, State of New Mexico

4 2005