Z-21-05 3-14-0 5 DATE IN SUSPENSE TYPE NSL APP NO. LOGGED IN

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION



		- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505	1-57
		ADMINISTRATIVE APPLICATION CHECKLIST	
THIS	S CHECKLIST IS	S MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION	s
Applica	ition Acrony	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE yms:	
	DHC-Do	Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] Swnhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] -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] [Walified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	
[1]	TYPE OF A	APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	Ø
	Che [B]		
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR Other: Specify ATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	
	[D]	Other: Specify	
[2]	NOTIFICA [A]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR Other: Specify ATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	aion .
	[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]		ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYICATION INDICATED ABOVE.	PE
	al is <mark>accurat</mark>	CATION: I hereby certify that the information submitted with this application for administrative and complete to the best of my knowledge. I also understand that no action will be taken on a required information and notifications are submitted to the Division.	
	No	tote: Statement must be completed by an individual with managerial and/or supervisory capacity.	
	Bruce	Attorney for Applicant 2/20	0/05
rint or	Type Name	/Signature Title Date / jamesbruc@aol.com	
		e-mail Address	

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-4955-A(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 for the following well:

Well: Hawk B-1 Well No. 35

Location: 160 feet FSL & 1310 feet FEL

Well Unit: SE¼SE¼ 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-4955-A(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 &}lt;u>See</u> 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%SE% of Section 9 is covered by U.S. Lease NM 90161 (the Hawk B-1 Lease), and the offsetting N%NE% of Section 16 is covered by State Lease B-1732-1 (the Harry Leonard NCT-E State Lease). Since ownership is common in the S%SE% of Section 9, there is no need to notify the interest owners in the SW%SE% of Section 9.

The well also encroaches on the N½NE¼ of Section 16. The operating rights owners in the two leases are Apache Corporation, Chevron Texaco Inc., and BP America Production Company. 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%SE% of Section 9 and the N%NE% of Section 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 of this application, notice has not be given to anyone.

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

Very truly yours,

ames Bruce

Attorney for Apache Corporation

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

40 acres – 160' FSL &1310' FEL Section 9, Township 21 South, Range 37 East, NMPM Lea County, New Mexico

PRIMARY OBJECTIVE: SAN ANDRES

In support:

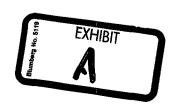
- 1. Apache Corporation (Apache) is the operator of the **Hawk B-1 #35** well. The total depth drilled is 4350' in the San Andres formation. The well is currently perforated in and producing from the Grayburg.
- 2. The well was drilled in the Penrose Skelly; Grayburg Oil Pool with a "tail" into the San Andres Formation. Administrative Order NSL-4955-A 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 well (**Exhibit 1**).

OPER	WELL	LOC	RESERVOIR	CUM	DAILY
				O/G/W	O/G/W
Apache	Hawk B-1 #36	09-P	San Andres	0/9/17	3/241/292

Oil in MBO BOPD
Gas in MMCFG MCFGPD
Water in MBW BWPD

- 3. The unorthodox **Hawk B-1 #35** San Andres location of 160' from south line and 1310' from east 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 #36	09-P	40	4	382

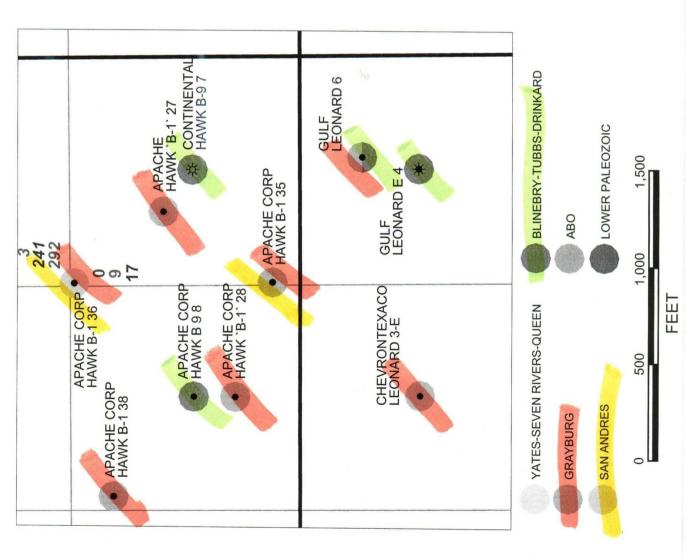


Volumetrics and reserves for the Hawk B-1 #35 are:

WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Hawk B-1 #35	09-P	40	7	380

4. Notice

- a. Apache will be the operator of all San Andres wells to the east and west toward which the Hawk B-1 #35 would encroach. ChevronTexaco will be the operator of all San Andres wells to the south toward which the well would encroach. The Hawk Federal Lease covers among other lands the SE/4 Section 9, and the Leonard Lease covers the NE/4 Section 16. Interest ownership in the Hawk B-1 # 35 well being Apache Corp, ChevronTexaco, and BP America Production Co. in the San Andres formation is 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 be 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 MMCFG MBO MBW



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

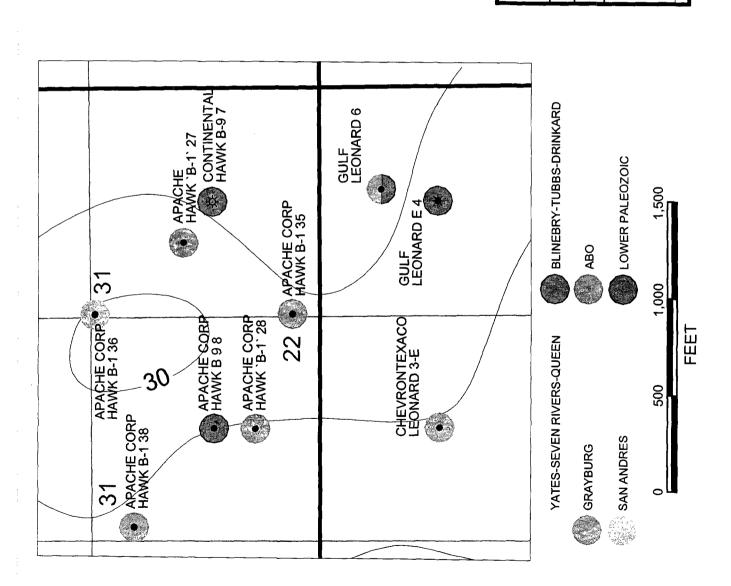
#3 B-1 HAWK

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT

WELL INFORMATION

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



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

WELL SYMBOLS

- Location Only
- Oil Well
- ⇔ Gas Well
- Ω

POSTED WELL DATA

SAN ANDRES NET PAY



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

#3

HAWK B-1

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO EXHIBIT 2 SAN ANDRES

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

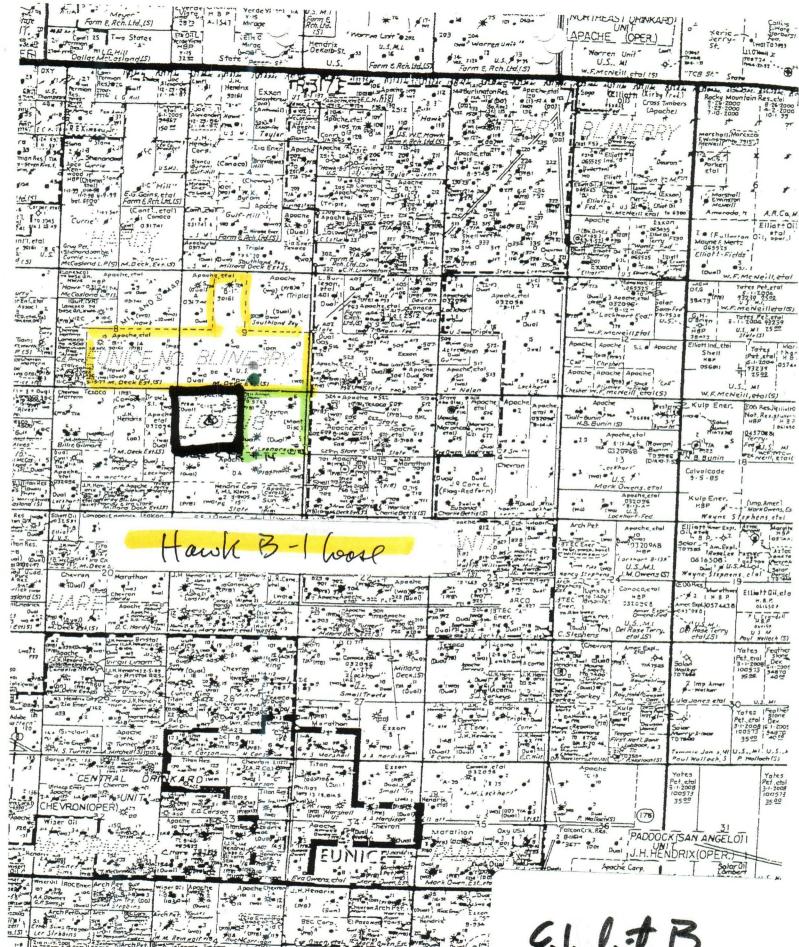


Exhibit B

AMENDMENT TO COOPERATIVE WELL AGREEMENT (for the Hawk B-1 # 35 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 SE/4 (Hawk B-1 Lease) in Section 9, Township 21 South, Range 37 East, N.M.P.M. and the N/2 NE/4 (Leonard 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, and the Leonard 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 # 35 Well:

SURFACE LOCATION: Lea County, New Mexico, Planned Total Depth: 160' FSL & 1,310' FEL, 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:	28.28%
BP	14.14%
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.

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:

Hawk B-1 # 35 Well:

SURFACE LOCATION:
Lea County New Mexico

160' FSL & 1,310' FEL, Sec. 9, 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:	28.28%
BP	14.14%
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, 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

Rof Johnston Vice Prident Central Region CHEVRON U.S.A. INC. BUREAU OF LAND MANAGEMENT By: By: Printed Name: Attorney in Feat Attorney In Pall And	APACHE CORPORATION		BP AMERICA PRODUCTION COMPANY
By:	Vice President	NW	Printed Name: Edmund M. Sierra
By:	CHEVRON U.S.A. INC.		BUREAU OF LAND MANAGEMENT
Johnston, Vice President Companion, of Apache Corporation, a Delaware corporation, on behalf of said corporation. PUBLIC Notary Public, State of Oklahoma Notary Public, State of Texas STATE OF TEXAS STATE OF TEXAS STATE OF TEXAS Notary Public, State of Texas STATE OF NEW MEXICO Notary Public, State of Texas STATE OF NEW MEXICO STATE OF NEW MEX	Printed Name:		Printed Name: LARRY D'BRAY
This instrument was acknowledged before me this	STATE OF OKLAHOMA §		,
Johnston, Vice President Companion, on Apache Corporation, a Delaware corporation, on behalf of said corporation. PUBLIC Notary Public, State of Oklahoma Notary Public, State of Texas Notary Public, State of State Notary Public	COUNTY OF TULSA §		
This instrument was acknowledged before me this \(\begin{align*}{c} \text{day of } \) \(\text{DOM, 2004, by } \) \(\text{Edmund M. Sietta} \) \(\text{Data-production of BP America Production Company, a Delaware corporation, on behalf of said corporation.} \) \[\text{PEERK ZAPALAC Signal of Texas Production of BP America Production of BP America Production Company, a Delaware corporation.} \] \[\text{PSEERK ZAPALAC Signal of Texas Production of BP America Production of BP America Production.} \] \[PSEERK ZAPALAC Signal of Texas Signal of Texas Public, State of Texas Signal of Texas Si	Johnston, Vice President, Central Reof said corporation. OTA PUBLIC IN AND FOR STATE OF	geoin, of Apach	Royanne Delaware corporation, on behalf
This instrument was acknowledged before me this		86.	
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,	Company, a Delaware corporation, of MELEN K. ZAPALAC	on behalf of sa	id corporation.
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,	Message processes	200	Notary Public, State of Pexas
Pennsylvania corporation, on behalf of said corporation. Notary Public, State of Texas STATE OF NEW MEXICO	§		
STATE OF NEW MEXICO \$ \$ COUNTY OF LEA \$ This instrument was acknowledged before me this day of, 2004,		,	of Chevron U.S.A. Inc., a
COUNTY OF LEA § This instrument was acknowledged before me this day of, 2004,			Notary Public, State of Texas
This instrument was acknowledged before me this day of, 2004,	STATE OF NEW MEXICO §		
	COUNTY OF LEA §		
by, Authorized Officer of the Bureau of Land Management on			

Notary Public, State of New Mexico

2005

APACHE CORPORATION	BP AMERICA PRODUCTION COMPANY
Ву:	By:
Rob Johnston	By: Printed Name:
Vice President Central Region	Title:
CHEVRON U.S.A. INC.	BUREAU OF LAND MANAGEMENT
By: C.D. Fright Printed Name: C.D. Fright Title: A Horney-In-Race	By: Jan 0 4 Printed Name: 1 ARY D. BRAY Title: AFM LANDS & MINERALS
STATE OF OKLAHOMA §	
COUNTY OF TULSA §	
This instrument was acknowledged before Johnston, Vice President, Gentral Region, of Apac of said corporation. PUBLIC IN AND FOR STATE OF CAHON	me this 1st day of November, 2004, by Rob the Corporation, a Delaware corporation, on behalf Volume Scenwood Notary Public, State of Oklahoma 00015619
STATE OF TEXAS	
COUNTY OF HARRIS §	
This instrument was acknowledged before Company, a Delaware corporation, on behalf of s	
	Notary Public, State of Texas
STATE OF TEXAS §	
COUNTY OF HARRES §	
This instrument was acknowledged before	re me this $\frac{gh}{\sqrt{eq-j\omega-Fac}}$ day of $\frac{\int_{ecemb-r}}{\text{of Chevron U.S.A. Inc., a}}$
Pennsylvania corporation on hebelf of said corporation of said cor	Notary Public, State of Texas
STATE OF NEW MEXICO § \$ COUNTY OF LEA §	
	Fore me this day of, 2004, zed Officer of the Bureau of Land Management on

Notary Public, State of New Mexico



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

November 8, 2004

RECEIVED

NOV 1 2 2004

TULSA LAND DEPT.

COMMISSIONER'S OFFICE

Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

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

Attn:

Mario R. Moreno, Jr.

Re:

Communitization Agreement Approval: Amendment

Hawk B 1 Well No. 35

S2SE4, Section 9, and N2NE4, Section 16

Township 21 South, Range 37 East

Lea County, New Mexico

Dear Mr. Moreno:

The Commissioner of Public Lands approved the Hawk B 1 Well No. 35 Communitization Agreement for the S2SE4, Section 9, and N2NE4, 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

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
Hawk B 1 Well No. 35
Lea County, New Mexico
S2SE4, Section 9, and N2NE4, 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