

DATE IN 9/11/06	SUSPENSE	ENGINEER <del>M. STOGNER</del> BROOKS	LOGGED IN 9/11/06	TYPE NSL	APP NO. 9-215-375 453350
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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



Apache  
Hawthorn #30  
9-215-375  
Fed → Fed

## ADMINISTRATIVE APPLICATION CHECKLIST

5494

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 ☐ OLM

[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

Date

jamesbruc@aol.com  
e-mail Address

2006 SEP 11 AM 11 29

9/11/06

**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)

[jamesbruce@aol.com](mailto:jamesbruce@aol.com)

September 11, 2006

Hand Delivered

Mark E. Fesmire, P.E.  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

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

<u>Well Name:</u>	Hawk A Well No. 30
<u>Well Location:</u>	1310 feet FNL & 1310 feet FWL
<u>Well Unit:</u>	NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 9, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico

The well will test the Blinebry, Tubb, and Drinkard formations (North Eunice Blinebry-Tubb-Drinkard Pool).

The application is based on geological and engineering reasons. A complete discussion, with exhibits, is attached as Exhibit A. The well is located in the approximate center of Blinebry, Tubb, and Drinkard wells, and the proposed location will drain additional undrained reserves.

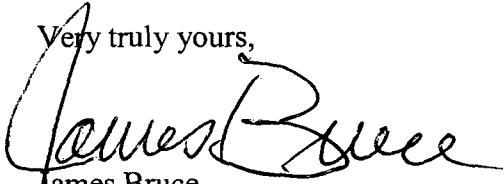
Unit ~~D~~ <sup>30-025 - 21225</sup> will be simultaneously dedicated to the proposed well and the existing Hawk A Well No. 5, and applicant requests simultaneous dedication approval.

Exhibit B is a land plat. The location encroaches on the Hawk B-1 Lease, which covers (among other lands) the E $\frac{1}{2}$ NW $\frac{1}{4}$  of Section 9. The working interest owners have entered into the Cooperative Well Agreement attached as Exhibit C. Production from the proposed well will be allocated between the three leases as set forth in Exhibit C (47.64% to the Hawk A Lease and

52.36% to Hawk B-1 Lease). Because the interest owners have agreed to the allocation of production, no interest owner has been notified of this application.

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

Very truly yours,

A handwritten signature in cursive script, appearing to read "James Bruce". The signature is written in dark ink and is positioned above the printed name.

James Bruce

Attorney for Apache Corporation

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

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

PRIMARY OBJECTIVES: Blinebry, Tubb, and Drinkard

In support:

1. Apache Corporation (Apache) is the operator of the proposed **Hawk A #30** well (**Exhibit 1**).
2. The proposed unorthodox location encroaches toward the following wells which are, or have been, productive from various combinations of the Blinebry, Tubb, and Drinkard (**Exhibit 2**). **Exhibit 2** displays only those wells with a total depth equal to, or greater than, 5500', sufficient to penetrate at least part of the Blinebry, Tubb, and Drinkard interval. Production from the three reservoirs is assigned to individual Blinebry Oil and Gas, Tubb Oil and Gas, and Drinkard Pools, but downhole commingling is pre-approved pending submission of allocations to the Hobbs District Office.

API					Cum	Daily
30-025-	Op.	Well	Loc	Pool	O/G/W	O/G/W
21225	Apache	Hawk A #05	9-D	Blinebry (06660)	29/255/8	0/0/0
21225	Apache	Hawk A #05	9-D	Drinkard (19190)	29/256/4	0/0/0
09909	Apache	Hawk B-1 #03	9-C	Blinebry (06660)	52/541/13	1/39/1
09909	Apache	Hawk B-1 #03	9-C	Tubb(60240)	24/2413/2	0/8/1
09909	Apache	Hawk B-1 #03	9-C	Drinkard (19190)	189/1192/4	0/0/0
06440	Apache	Hawk A #03	9-E	Blinebry (06660)	52/486/9	1/7/0
06440	Apache	Hawk A #03	9-E	Drinkard (19190)	209/1875/10	2/14/1
06437	Apache	Hawk B-1 A/C #01	9-F	Blinebry (06660)	58/4000/5	1/65/0
06437	Apache	Hawk B-1 A/C #01	9-F	Drinkard (19190)	311/1710/12	2/6/1

MBO                      BOPD  
MMCFG                MCFGPD  
MBW                    BWPD

3. Apache expects the proposed **Hawk A #30** to test as an oil well in each of the three reservoirs. If any reservoir tests as gas, Apache will either gain the appropriate approvals from the OCD to produce, or abandon the reservoir.
  - a) Hawk B-1 #3 apparent gas well producing characteristics in the Tubb appears to be a math error in multiplying reported production by allocation factors because the most recent Form C-104 places the well in the Tubb Oil Pool (**Exhibit 3**).
  - b) Hawk B-1 A/C #1 apparent gas well producing characteristics in the Blinebry also appears to be a math error in multiplying reported production by allocation factors



because the most recent Form C-104 places the well in the Blinebry Oil Pool (**Exhibit 4**).

c) There is no currently productive Blinebry, Tubb, or Drinkard well in Unit D.

4. The proposed **Hawk A #30** location of 1310' from north line and 1310' from west line is based upon drainage considerations.

**a. Geology**

The Blinebry, Tubb, and Drinkard Formations are members of the Yeso Group, Permian Leonardian in age. Fluid contacts, specifically Blinebry GOC at -2255' and Drinkard OWC at -3225', employed by Shell in the unitization hearing for the NorthEast Drinkard Unit, just to the east, were used in the petrophysical evaluation of the reservoirs.

All three formations are shallow marine carbonates, consisting primarily of dolomite. The Tubb has appreciable clastic content and the Drinkard can become limey toward its base. Anhydrite can occur throughout the interval. Pay zones are thin, erratically distributed, and separated by thick impermeable intervals. Porosity and permeability are low. Wells are not generally capable of draining a full 40 Acre spacing unit. In fact, Apache's calculations indicate drainage area usually approximates 20 Acres.

Apache routinely fracture stimulates perforations in each of the three formations then produces them commingled and allocates production based upon well tests. At this stage in the history of all three pools, economics will not permit development of individual reservoirs. Thus, pay from all three reservoirs must be considered for well proposals. A combined Blinebry, Tubb, Drinkard map extracted from a larger area map is, therefore, presented (**Exhibit 5**).

The reservoir was analyzed by mapping hydrocarbon pore volume (SoPhiH) (**Exhibit 5**) of the entire Blinebry, Tubb, and Drinkard interval. SoPhiH is the product of feet of net pay (H) times average porosity (PhiA) times oil saturation (So). The values were obtained as follows:

1. Net Pay was read from modern neutron-density logs which have contractor calculated cross-plotted porosity (XPhi) using a minimum of 5% and a maximum of 20%. Additionally, gamma ray (40 APIU in the Blinebry and Drinkard and 50 APIU in the Tubb) and water saturation (10% - 50%, using a standard equation with  $a=1$  and  $m=n=2$ ) cutoffs were also employed.
2. Average Porosity was calculated for intervals meeting those criteria.
3. Oil Saturation is the additive inverse of water saturation.

This analysis requires modern neutron-density and resistivity logs. Water saturations can be adequately estimated from offsetting modern wells, however many wells had to be excluded from analysis because of the

vintage or type of porosity logs. SoPhiH isopach lines were modeled after cumulative production (wells drilled prior to 1985) isopach lines where new well control is lacking. This procedure has proved successful for Apache in recent drilling in the area.

#### b. Drainage

The following table provides drainage areas calculated from the SoPhiH map and reserves of the offsetting wells. SoPhiH values are either from modern logs, or estimated from the grid. Wells with values determined from modern logs will be in bold, others are estimates from the grid.

				SoPhiH	Area	EUR	EUR
Op.	Well	Loc	Reservoir	Ft	A	MBO	MMCFG
Apache	Hawk A #05	9-D	BTD	12.9	7	58	511
Apache	Hawk B-1 #03	9-C	BTD	17.1	24	264	4150
Apache	Hawk A #03	9-E	BTD	11.3	36	261	2363
Apache	Hawk B-1 A/C #01	9-F	BTD	17.1	33	367	5710

The proposed **Hawk A #30** was planned as a "true" 20 Acre infill location between existing Blinebry, Tubb, and Drinkard producers. The location was placed in the center of the vacant area between the existing wells, and then moved due to surface conditions and cultural obstructions.

Reserves for the proposed location were calculated by planimetry the undrained area of the SoPhiH isopach which lies under a drainage circle (the size of which is the average of the direct offset drainage areas) centered on the proposed location. Any competitive drainage is shared between the proposed well and the existing offset wells. The results are as follows:

				SoPhiH	Area	EUR	EUR
Op.	Well	Loc	Reservoir	Ft	A	MBO	MMCFG
Apache	<b>Hawk A #30</b>	9-D	BTD	15.2	18	148	1184

#### 4. Notice

Apache is the only operator of the Blinebry, Tubb, and Drinkard wells toward which the proposed well will encroach. Other working interest owners who need to be notified are:

BP America Production Company  
501 Westlake Park Blvd  
Houston, TX 77079  
Attn: Land Department

Chevron U.S.A. Inc.  
11111 S. Wilcrest  
Houston, TX 77099  
Attn: Land Department

**Hawk A #30** is additionally a "leaseline" location. The two leases involved, Hawk A and Hawk B-1, are both Federal Leases. Apache will enter into an appropriate Lease Line Agreement before the well is spudded.

5. Approval of this application will afford the interest owners in these spacing units an opportunity to recover oil and gas which would not otherwise be recovered and to do so without violating correlative rights.

## DISTRICT I

1025 N. FRENCH DR., HOBBES, NM 88240

## State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name HAWK A	Well Number 30
OCRID No.	Operator Name APACHE CORPORATION	Elevation 3502'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	21-S	37-E		1310	NORTH	1310	WEST	LEA

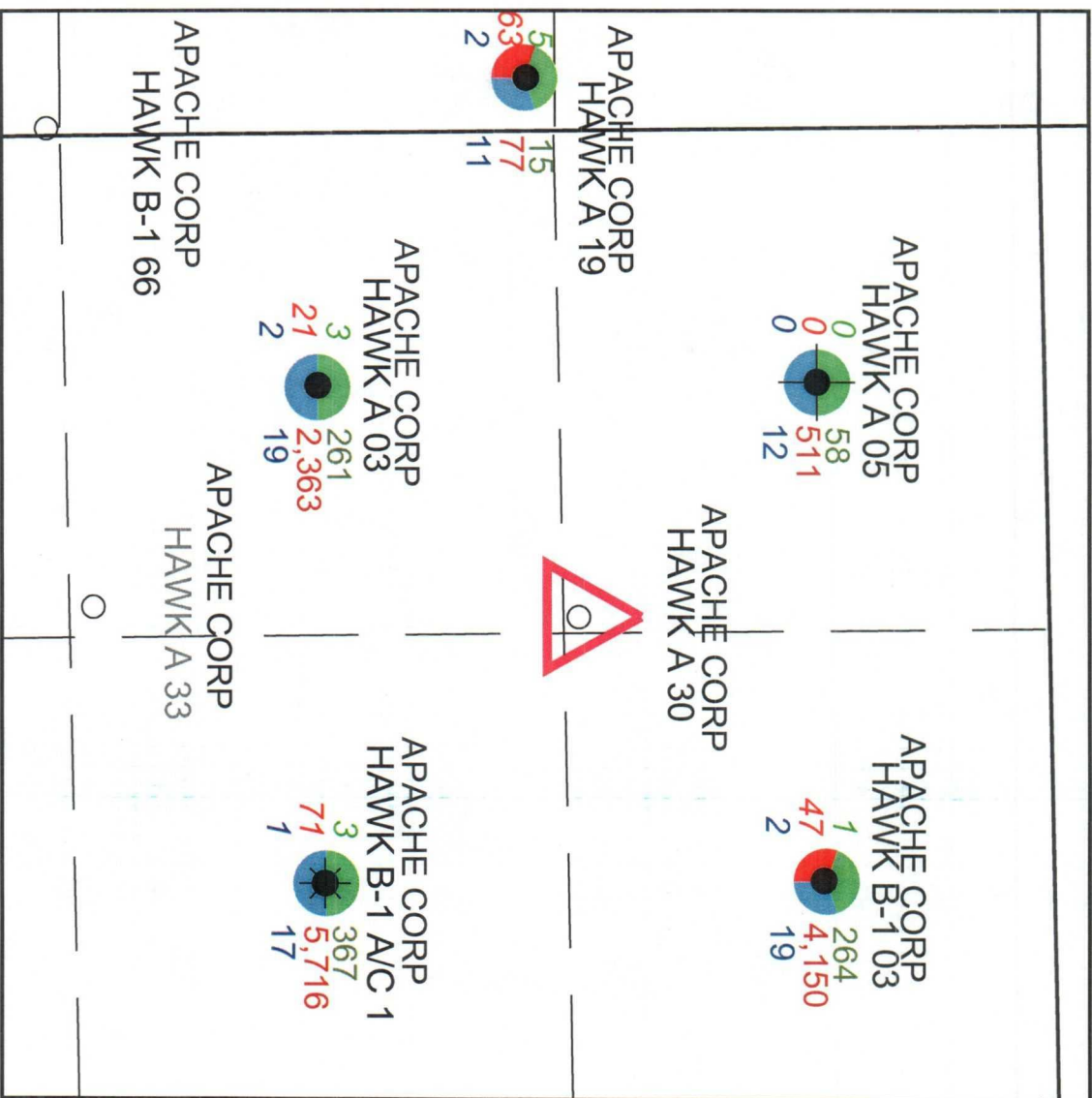
## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=546462.0 N X=858104.9 E</p> <p>LAT.=32°29'49.10" N LONG.=103°10'18.70" W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature _____</p> <p>Printed Name _____</p> <p>Title _____</p> <p>Date _____</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 18, 2006</p> <p>Date Surveyed _____ JR</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>GARY EDSON</i> 2/1/06</p> <p>06.11.0070</p> <p>Certificate No. GARY EDSON 12641</p>
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#### WELL SYMBOLS

- Location Only
- Oil Well
- ☀ Gas Well
- ☐ Dry

#### POSTED WELL DATA

OPERATOR  
WELL LABEL

**CURRENT BOPD** **MBO**  
**CURRENT MC/FD** **MMCFG**  
**CURRENT BWPD** **MBW**

**Apache**  
 CORPORATION  
 CENTRAL REGION  
 TWO WARREN PLACE, SUITE 1500  
 6120 SOUTH YALE  
 TULSA, OKLAHOMA 74136-4224

**HAWK A 30**

**SEC 9-T21S-R37E**  
**LEA COUNTY, NEW MEXICO**

**EXHIBIT 2**

**WELL INFORMATION**

DATE: 1/31/06

DWG: CURTIS/IBTD NSL/WEEL (EX2)

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico  
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

## I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator Name and Address APACHE CORPORATION 2000 POST OAK BLVD., SUITE 100 HOUSTON, TEXAS 77056-4400		OGRID Number 000873
API Number 30-025-09909		Reason for Filing Code / Effective Date DHC / 11/6/01
Property Code 24427	Pool Name Tubb	Pool Code 60240
	Property Name Hawk B-1	Well Number 3

## II. Surface Location

U/I or lot no. C	Section 9	Township 21S	Range 37E	Lot. Idn	Feet from the 660	North/South line North	Feet from the 1980	East/West line West	County Lea
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## Bottom Hole Location

U/I or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
Use Code F	Producing Method Code P	Gas Connection Date 11/6/2001	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

## III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
037480	EOTT Energy Pipeline LP P O Box 4666 Houston, Texas 77210-4666	0768710	O	K, Sec. 9, T-21S, R-37E
024650	Dynegy Midstream Services 6 Desta Drive, Suite 3300 Midland, Texas 79705	0768730	G	K, Sec. 9, T-21S, R-37E

## IV. Produced Water

POD 768750	POD ULSTR Location and Description K, Sec. 9, T-21S, R-37E
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## V. Well Completion Data

Spud Date 11/6/2001	Ready Date 11/6/2001	TD 6782	PBTD 6375	Perforations 6230 - 6350	DHC, MC D1-DHC Order No. 0010
Hole Size 15-1/2	Casing & Tubing Size 13	Depth Set 206	Sacks Cement 200 sx / Circulated to Surface		
			500 sx / TOC @ 1625' (Temp Survey)		
			500 sx / TOC @ 3550' (Temp Survey)		
	2-7/8	6351			

## VI. Well Test Data

Date New Oil 11/6/2001	Gas Delivery Date 11/6/2001	Test Date 11/24/2001	Test Length 24	Tbg. Pressure AOF	Csg. Pressure Pumping
Choke Size 5 / 2 (33%)	Oil 30 / 10 (33%)	Water 15 / 3 (23%)	Gas		

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Debra J. Anderson*  
Printed Name: Debra J. Anderson  
Title: Sr. Engineering Technician  
Date: 11/28/01  
Phone: 713-296-6338

## OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

APPROVED BY  
PAUL F. KNOTT  
PETROLEUM ENGINEER

JAN 15 2002

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature:	Printed Name	Title	Date
------------------------------	--------------	-------	------

dm

PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd. Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe NM 87504-2088

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Revised February 10, 1994  
Instructions on back:  
Submit to Appropriate District Office  
5 Copies

EXHIBIT 4

☐ AMENDED REPORT

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1. Operator name and Address Apache Corp. 2000 Post Oak Blvd., Suite 100 Houston, TX. 77057-4400		2. OGRID Number 000873
4. API Number 30-0 25-06437	5. Pool Name Blinberry Oil and Gas	6. Pool Code 06660
7. Property Code 24437	8. Property Name Hawk B I A/C 1	9. Well Number 1

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
F	9	21S	37E		1980	North	1980	West	Lea

II Bottom Hole Location

UL or Lot	Section	Township	Range	Lot. Idn.	Feet from the	North/South Line	Feet from the	East/West Line	County
F	P								
12. se Code	13. Producing Method Code	14. Gas Connection Date	15. C-129 Permit Number	16. C-129 Effective Date	17. C-129 Expiration Date				
F	P								

III. Oil and Gas Transporters

18. Transporter OGRID	19. Transporter Name and Address	20. POD	21. O/G	22. POD ULSTR Location and Description
22628	Texas New Mexico PL Co. P.O. Box 2528 Hobbs, NM. 88240	0768710	O	K 9 21S 37E
24650	Dynergy Midstream Services 6 Desta Dr., Suite 3300 Midland, Tx. 79705	0768730	G	K 9 21S 37E

IV. Produced Water

23. POD 0768750	24. POD ULSTR Location and Description K 9 21S 37E
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V. Well Completion Data

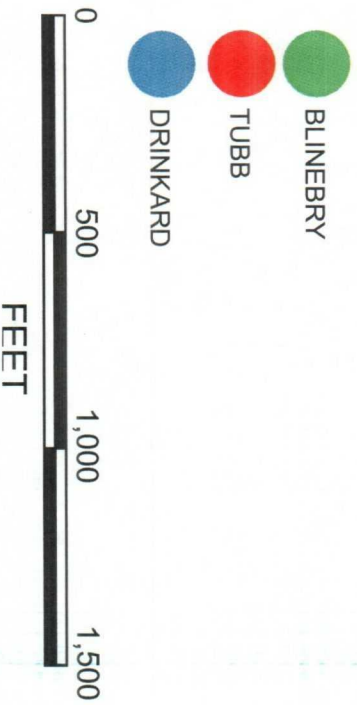
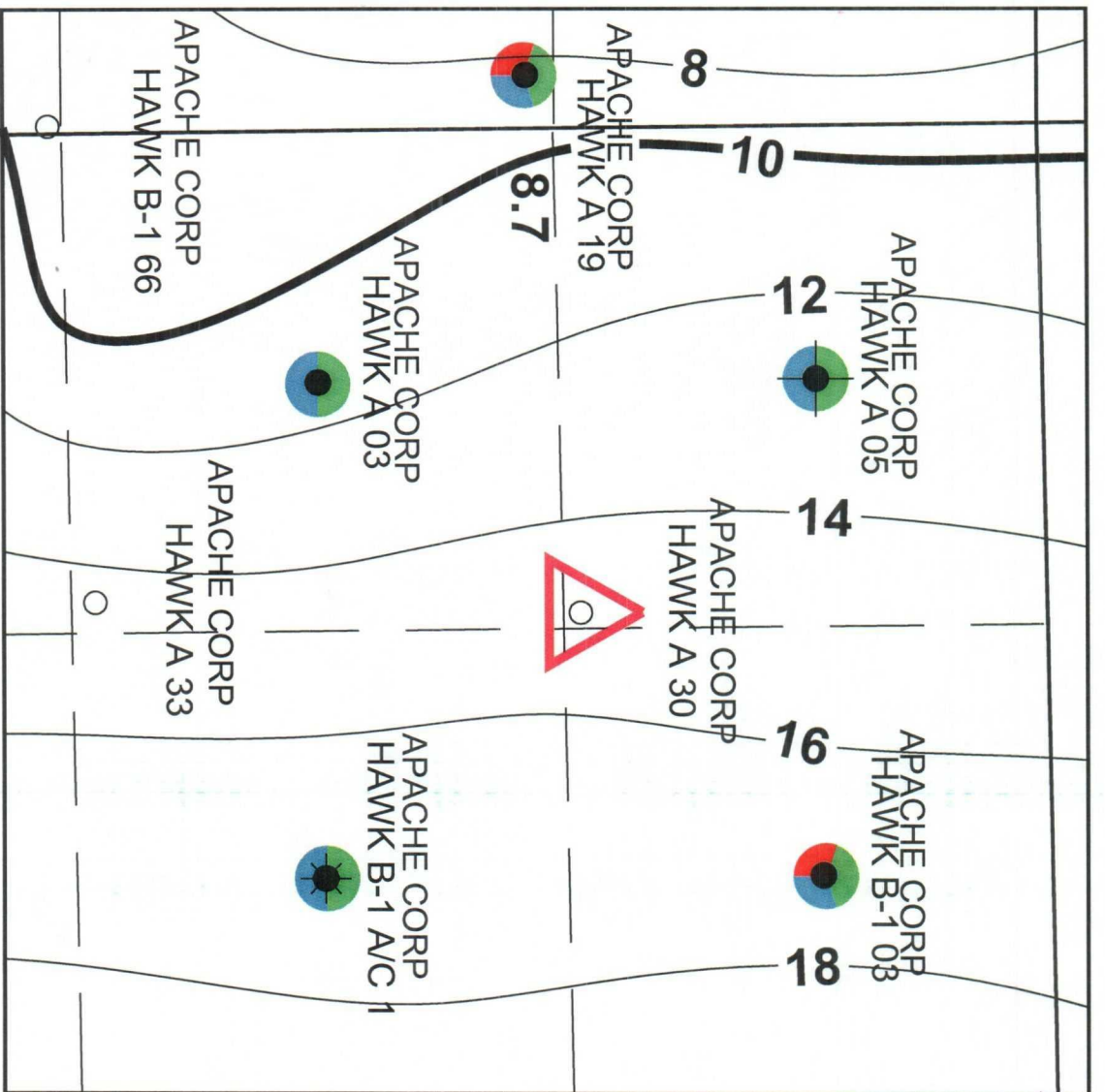
25. Spud Date	26. Rea dy Date	27. TD	28. PBTD	29. Perforations
30. Hole Size	31. Casing & Tubing Size	32. Depth Set	33. Sacks Cement	

VI. Well Test Data

34. Date New Oil	35. Gas Delivery Date	36. Test Date	37. Test Length	38. Tbg. Pressure	39. Csg. Pressure
40. Choke Size	41. Oil	42. Water	43. Gas	44. AOF	45. Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Timothy R. Keathly</i> Printed name: Timothy R. Keathly Title: Sr. Staff Landman		OIL CONSERVATION DIVISION Approved by: <i>Bill R. Keathly</i> Title: Approval Date: Date: 3/31/99	
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47. If this is a change of operator fill in the OGRID number and name of the previous operator Previous Operator Signature: <i>Bill R. Keathly</i> Printed Name: Bill R. Keathly Title: Sr. Regulatory Specialist Date: 3-31-99		Conoco Inc. 005073	
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#### WELL SYMBOLS

- Location Only
- Oil Well
- ☀ Gas Well
- ☐ Dry

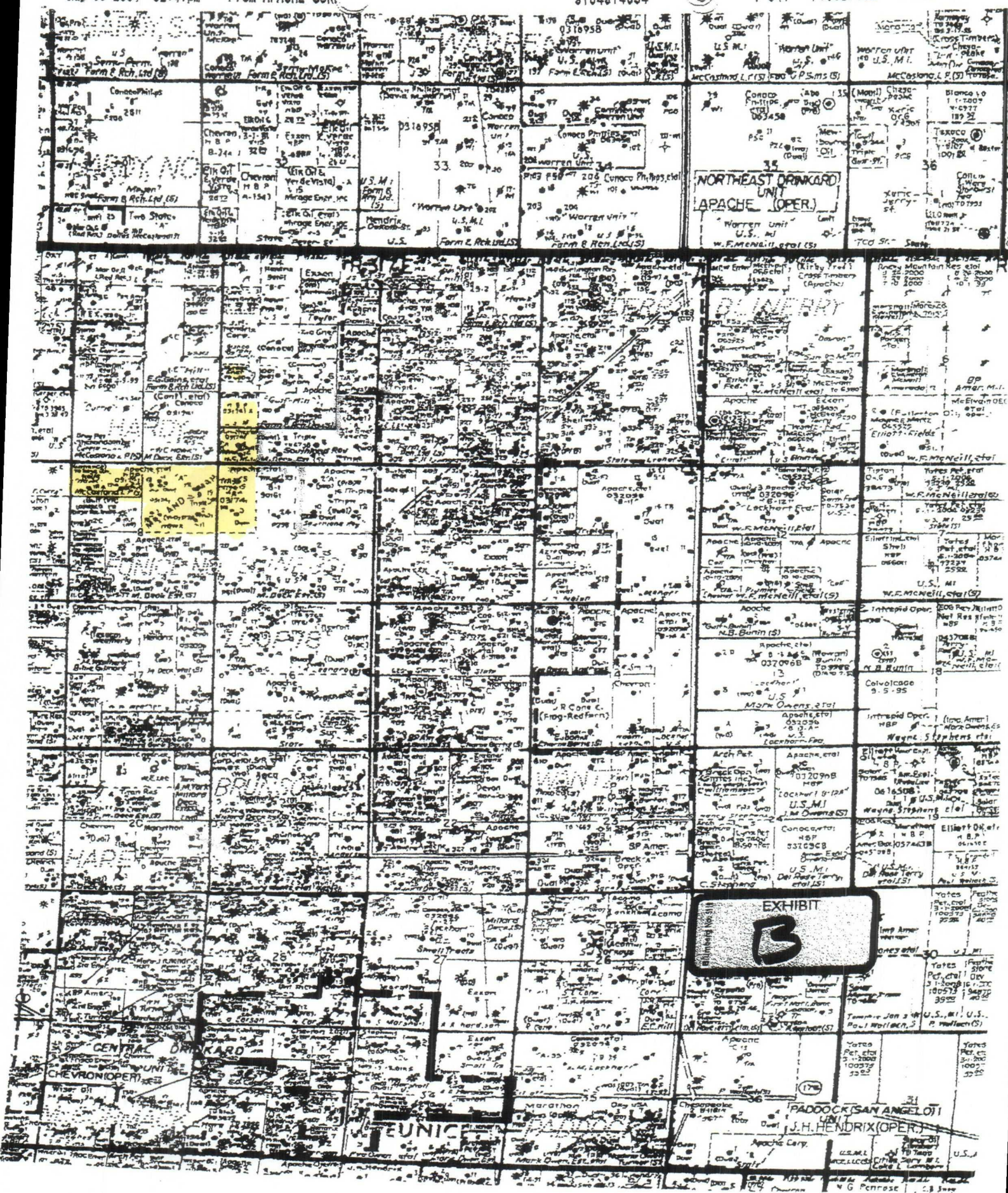
#### POSTED WELL DATA

OPERATOR  
WELL LABEL

**BTD SOPHIH •**

 <p>APACHE CORPORATION CENTRAL REGION</p>		<p>TWO WARREN PLACE, SUITE 1500 6120 SOUTH YALE TULSA, OKLAHOMA 74136-4224</p>
<p><b>HAWK A 30</b></p>		
<p>SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO</p>		
<p><b>EXHIBIT 5</b></p>		
<p><b>BTD SOPHIH</b></p>		
DATE: 2/1/06	DWG: CURTIS/BTD NSL/WEEL (EX3)	







May-03-2004 02:41pm

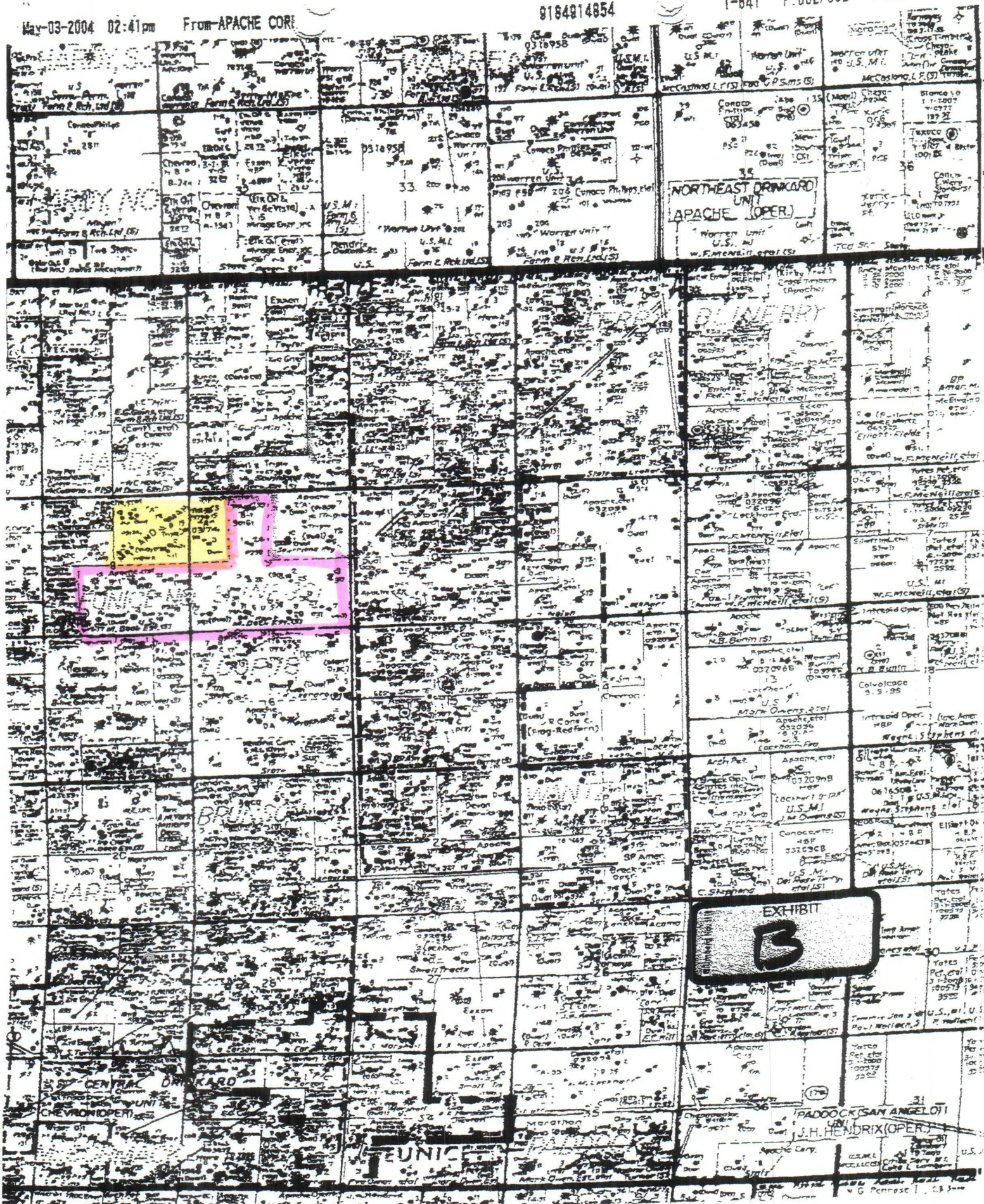
From APACHE CORP

9184914854

T-641

P.002/002

F-640





**COOPERATIVE WELL AGREEMENT**  
**(for the Hawk A #30 Well)**

This Cooperative Well Agreement ("Agreement"), is entered into and is effective as of May 1, 2006, between **BP AMERICA PRODUCTION COMPANY**, whose address is 501 Westlake Park Blvd., Houston, TX 77079 ("BP"), **CHEVRON U.S.A. INC.**, whose address is 11111 S. Wilcrest, Houston, TX 77099 ("Chevron") and **APACHE CORPORATION**, whose address is 6120 South Yale Avenue, Suite 1500, Tulsa, Oklahoma 74136 ("Apache"). BP, Chevron, and Apache are sometimes hereafter referred to individually as "Party" and collectively as "Parties".

**W I T N E S S E T H :**

**WHEREAS, Apache is Operator of the following oil and gas leases in Lea County, New Mexico (hereinafter sometimes collectively referred to as the "Properties"):**

**1. Hawk B-1 Lease -**

**Lessor: The United States of America NM 90161**

**Lessee: Estate of Wilbur C. Hawk**

**Date: March 1, 1958**

**Description: Insofar and only insofar as same covers the following-described land in Lea County, New Mexico:**

**Township 21 South, Range 37 East, N.M.P.M.**

**Section 9: SW/4NE/4E/2NW/4, NW/4SE/4E/2NW/4**

**2. Hawk A Lease -**

**Lessor: The United State of America LC 031741 (a)**

**Lessee: Estate of Wilbur C. Hawk**

**Date: January 1, 1958**

**Description: Insofar and only insofar as same covers the following-described land in Lea County, New Mexico:**

**Township 21 South, Range 37 East, N.M.P.M.**

**Section 9: SE/4NW/4W/2NW/4, NE/4SW/4W/2NW/4**

WHEREAS, the Parties each own undivided operating rights in and to the Hawk A Lease, and the Hawk B-1 Lease; and

WHEREAS, the Parties desire to drill and complete the **Hawk A #30 Well** ("Cooperative Well") for the production of oil, gas and related hydrocarbons, insofar as it covers the Blinebry, Tubb and Drinkard formations, at a non-standard location encroaching on the lease line between the Hawk B-1 Lease and Hawk A Lease in Section 9 as described below; and

WHEREAS, the Parties desire to provide for the sharing of production from and the costs of drilling, completing and operating said **Hawk A #30 Well** as described herein below.

NOW THEREFORE, the Parties hereby agree as follows:

**1. DESIGNATION AND RESPONSIBILITIES OF OPERATOR**

A. Apache is designated as operator ("Operator") of the **Hawk A #30 Well** for the purposes of this Agreement.

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 Drinkard Formation as follows:

**Hawk A #30 Well:**

SURFACE LOCATION:	1310' FNL & 1310' FWL, Sec. 9, T21S-R37E,
Lea County, New Mexico,	
Planned Total Depth:	6,975 feet, but in no event below the base of The Drinkard Formation plus one hundred (100) feet for operational purposes only.

Except as otherwise provided in this Agreement, the Parties agree that all operations, and the rights and obligations of the Parties, with respect to the Cooperative Well shall be governed by the terms and conditions of that certain NMFU Operating Agreement dated September 1, 1989, as amended to date (hereinafter referred to as the "NMFU Operating Agreement"), specifically including, but not limited to, the insurance and indemnification provisions of that Agreement. Solely for purposes of drilling and operating the **Hawk A #30 Well**, Exhibit A-1 to the NMFU Operating Agreement is amended to cover the **Hawk A #30 Well** as provided herein. As between the Parties there is and shall be no cross-assignment or other transfer to title to any interests of the Parties in the Properties as a result of this Agreement. This Agreement is merely a contractual arrangement among the Parties to drill, equip, test, operate and produce the Cooperative Well. BP and Chevron shall, at their sole cost and risk, have access to the Cooperative Well location at all reasonable times to inspect or observe operations and to information pertaining to the development and operation of the Cooperative Well. BP and Chevron shall also have the right to audit Operator's books and records relating thereto in accordance with the applicable provisions of Exhibit "C" - Accounting Procedure, attached to the NMFU Operating Agreement. Operator, upon request, shall furnish BP and Chevron copies of all forms or reports filed with governmental agencies, well logs, tank tables, daily gauge and run tickets and reports of stock on hand at the first of each month, and shall make available to BP and Chevron samples of any cores or cuttings taken from the Cooperative Well. The cost of gathering and furnishing information to BP and Chevron, other than that specified above, shall be charged to BP and Chevron.

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 Drinkard formation, by the below named Parties in the percentage shown opposite their name as follows:

Apache: .....	50.00%
BP .....	25.00%
Chevron .....	25.00%

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.

2. **TERM OF AGREEMENT**

This Agreement shall remain in full force and effect so long as such Cooperative Well continues to produce oil or gas or both, and for an additional period of ninety (90) days from cessation of all production; provided, however, if, prior to the expiration of such additional period, the Parties are engaged in drilling or reworking operations to restore production from the Cooperative Well hereunder, this Agreement shall continue in force until such operations have been completed, with no cessation of more than sixty (60) consecutive days, and if production results there from, this Agreement shall continue in force as provided herein. Upon cessation of the production of oil or gas or both, Operator shall plug and abandon the Cooperative Well in accordance with all rules and regulations of all governmental agencies having jurisdiction over the



premises at the cost, risk, and expense of the Parties, and shall salvage all equipment in and on the well for the account of the Party(ies) that initially paid for said equipment. The termination of this Agreement shall not relieve any of the parties from any liability which has accrued hereunder prior to the date of such termination.

Notwithstanding anything to the contrary contained elsewhere in this Agreement, if the actual drilling operations for the Cooperative Well are not commenced on or before June 1, 2007, then this Agreement shall immediately terminate and shall have no further force and effect.

### **3. NON-PARTNERSHIP ELECTION**

A. Under no circumstances shall this Agreement be construed as creating a partnership, mining partnership or an association for profit between or among the Parties hereto. The liability of the Parties shall be several and not joint or collective. Each Party shall be liable only for the costs incurred and the risks assumed by each respective Party in connection with the performance of this Agreement.

B. Notwithstanding any provisions herein that the right and liabilities of the Parties hereunder are several and not joint or collective or that this Agreement and the operations hereunder shall not constitute a partnership, if for Federal income tax purposes this Agreement and the operations hereunder are regarded as a partnership, then each of the parties hereto hereby elects to be excluded from the application of all the provisions of Subchapter K, Chapter 1, Subtitle A, of the Internal Revenue Code of 1986, as permitted and authorized by Section 761 of said Code and the regulation promulgated thereunder. Operator is authorized and directed to execute on behalf of each of the Parties hereto such evidence of this election as may be required by the Secretary of the Treasury of the United State or the Federal Internal Revenue Service, including specifically, but not by way of limitation, all of the returns, statements, and the data required by Federal Regulations 1.761-2. Should there be any requirement that each party hereto further evidence this election, each Party hereto agrees to execute such documents and furnish such other evidence as may be required by the Federal Internal Revenue Service or as may be necessary to evidence this election. Each Party hereto further agrees not to give any notices or take any other action inconsistent with election made hereby. If any present or future income tax laws of the state or states in which the property covered by this Agreement is located, or any future income tax law of the United States, contain, or shall hereafter contain, provisions similar to those contained in Subchapter K, Chapter 1, Subtitle A, of the Internal Revenue Code of 1986, under which an election similar to that provided by Section 761 of Subchapter K is permitted, each of the parties hereby makes such election or agrees to make such election as may be permitted by such laws. In making this election, each of the Parties hereto hereby states that the income derived by it from the operations under this Agreement can be adequately determined without the computation of the partnership taxable income.

### **4. TRANSFER OF INTEREST**

If any instrument purporting to effectuate the sale, assignment, or transfer of any interest of a Party in or to the Hawk B-1 Lease and/or the Hawk A Lease does not expressly provide that such sale, assignment or transfer is made and accepted subject to this Agreement, the purported sale, assignment or transfer of any such interest shall be void.

### **5. CLAIMS AND LAWSUITS**

A. If any Party is sued on an alleged cause of action arising out of operations covered by this Agreement, it shall give prompt written notice of the suit to the other party.

B. Operator may settle any single damage claim or suit arising from operations hereunder for any settlement amount not exceeding Thirty-Five Thousand Dollars (\$35,000), provided such payment is in complete settlement of such claim or suit.

C. If the amount required for settlement exceeds the amount hereinabove set out, Operator shall give notice to BP and Chevron of its intent to settle for such higher amount, and if BP and Chevron agree to such higher amount, Operator may settle such claim or suit for such higher amount.

D. If, in Operator’s opinion, such claim or suit is not amenable to or susceptible of settlement, Operator may upon the written consent of the Parties hereto supervise the administration of said claim or suit employing Operator’s staff attorneys or other attorneys as it may see fit to do so, provided that the settlement limitations set forth in paragraph 5B shall apply, inclusive of costs and attorney fees incurred by Operator. The fees and expenses of settlement and handling such claim or suit shall be charged to the Joint Account, provided no charge shall be made for services performed by the staff attorneys for either Party.

6. **TAKING PRODUCTION IN KIND**

Each Party shall take in kind or separately dispose of its proportionate share of all oil and gas produced from the Cooperative Well, exclusive of production which may be used in development and producing operations and in preparing and treating oil and gas for marketing purposes and production unavoidably lost. Any extra expenditure incurred in the taking in kind or separate disposition by any Party of its proportionate share of the production shall be borne by such Party. Any Party taking its share of production in kind shall be required to pay only for its proportionate share of such part of Operator’s surface facilities which it uses. In the event one or more Parties' separate disposition of its share of the gas causes split-stream deliveries to separate pipelines which on a day-to-day basis for any reason are not exactly equal to a Party's respective proportionate share of total gas sales to be allocated to it, the balancing or accounting between the respective accounts of the Parties shall be in accordance with the Gas Balancing Agreement attached to the NMFU Operating Agreement.

In the event any Party shall fail to make the arrangements necessary to take in kind or separately dispose of its proportionate share of the oil produced from the Cooperative Well, Operator shall have the right, subject to the revocation at will by the Party owning it, but not the obligation, to purchase such oil or sell it to others at any time and from time to time, for the account of the non-taking Party at the best price obtainable in the area for such production. Any such purchase or sale by Operator shall be subject always to the right of the owner of the production to exercise at any time its right to take in kind, or separately dispose of, its share of all oil not previously delivered to a purchaser. Any purchase or sale by Operator of any other Party's share of oil shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) year.

7. **PRODUCTION ALLOCATION AND BURDENS ADMINISTRATION**

All royalties, overriding royalty interests, production payments, or similar lease burdens encumbering the Properties which are created and existing as of the effective date hereof are defined as the Existing Burdens. Solely for the payment of such Existing Burdens, all oil, gas and related hydrocarbons produced from or allocated to the Cooperative Well shall be allocated to the Properties as follows:

Hawk B-1 Lease .....	52.36%
Hawk A Lease .....	47.64%

Each Party shall account for and administer its share of the Existing Burdens attributable to the Hawk B-1 Lease and/or the Hawk A Lease, based on such Party’s operating rights in said lease(s) insofar and only insofar as to the formation(s) being produced from the Cooperative Well. Further, each Party shall indemnify and hold harmless each other Parties for the payment of its share of such Existing Burdens.

Acceptance of the payment of such Existing Burdens by the owners thereof shall never be construed as approval or ratification of a pooling, unitization, or communitization of the Hawk B-1 Lease and the Hawk A Lease.

8. **MEASUREMENT**

Subject to the provisions of Paragraph 6, all oil produced from the Cooperative Well will be measured in accordance with the standard metering practice accepted by the Bureau of Land Management. The method used shall be checked for accuracy at least once every month. All gas

separated from such oil shall be metered or determined from well test before delivery to the gas purchaser.

9. **TITLE**

This Agreement is not intended as a conveyance of any interest whatsoever in real property owned or controlled by the Parties, but is merely a contractual arrangement between the Parties to operate the Cooperative Well and share the production and costs thereof.

10. **NOTICES**

A. All notices authorized or required by this Agreement, unless otherwise specifically provided, shall be deemed to have been given when it is received by the Party to whom addressed if it is given in writing by Certified Mail, Return Receipt Requested, or telegram, postage or charges prepaid, and addressed to the parties to whom the notice is given at the addresses listed above.

B. Each Party shall have the right to change its address at any time and from time to time by giving written notice thereof to the other Parties.

11. **PRE-COMMENCEMENT APPROVALS**

Notwithstanding anything to the contrary contained elsewhere in this Agreement, Operator shall not commence actual drilling operations for the Cooperative Well until this Agreement, and the operations contemplated hereunder, has been approved by the Authorized Officer of the Bureau of Land Management. Operator shall be solely responsible for obtaining such approvals. All costs, expenses and fees associated with obtaining such approvals shall be billed and accounted for pursuant to 1.C. of this Agreement.

12. No director, employee, or agent of either party will give to or receive from any director, employee, or agent of the other party any commission, fee, rebate, gift, or entertainment of significant cost or value in connection with this Agreement. During the term of this Agreement and for 2 years, thereafter, any mutually agreeable representatives authorized by either party may audit the applicable records of the other party solely for the purpose of determining whether there has been compliance with this paragraph. The provisions of this paragraph will survive termination of this Agreement.

This Agreement is freely assignable and shall extend to and be binding on the successors and assigns of the Parties hereto.

This Agreement may be executed in any number of counterparts, each of 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 date first above written

**APACHE CORPORATION**

By: John Swain  
Printed Name: John Swain  
Title: Attorney-In-Fact

*JS*

**CHEVRON U.S.A. INC.**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**BP AMERICA PRODUCTION COMPANY**

By: E.M. Sierra  
Printed Name: E.M. Sierra  
Title: Attorney-in-Fact

*EGB JB*

**BUREAU OF LAND MANAGEMENT**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

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**APACHE CORPORATION**

By: John Swain  
Printed Name: John Swain  
Title: Attorney-In-Fact

*MSW*

**BP AMERICA PRODUCTION COMPANY**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**CHEVRON U.S.A. INC.**

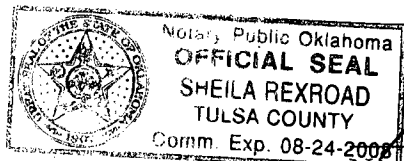
By: D.A. Brelih  
Printed Name: D.A. Brelih  
Title: Attorney-in-Fact

**BUREAU OF LAND MANAGEMENT**

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF OKLAHOMA §  
§  
COUNTY OF TULSA §

This instrument was acknowledged before me this 13<sup>th</sup> day of June, 2006, by John Swain, Attorney-In-Fact for Apache Corporation, a Delaware corporation, on behalf of said corporation.



Sheila Rexroad  
Notary Public, State of Oklahoma

STATE OF TEXAS §  
§  
COUNTY OF Harris §

This instrument was acknowledged before me this 12<sup>th</sup> day of July, 2006, by E.M. Sierra, Attorney-In-Fact of BP America Production Company, a Delaware corporation, on behalf of said corporation.



Christie M. Smith  
Notary Public, State of Texas

STATE OF TEXAS §  
§  
COUNTY OF \_\_\_\_\_ §

This instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, by \_\_\_\_\_ of Chevron U.S.A. Inc., a Pennsylvania corporation, on behalf of said corporation.

\_\_\_\_\_  
Notary Public, State of Texas

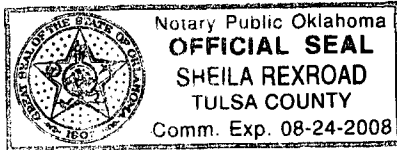
STATE OF NEW MEXICO §  
§  
COUNTY OF LEA §

This instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, by \_\_\_\_\_, Authorized Officer of the Bureau of Land Management on behalf of the Bureau of Land Management.

\_\_\_\_\_  
Notary Public, State of New Mexico

STATE OF OKLAHOMA     §  
                                     §  
COUNTY OF TULSA       §

This instrument was acknowledged before me this 13<sup>th</sup> day of June, 2006, by John Swain, Attorney-In-Fact for Apache Corporation, a Delaware corporation, on behalf of said corporation.



Sheila Rexroad  
Notary Public, State of Oklahoma

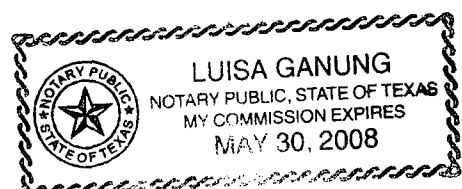
STATE OF TEXAS         §  
                                     §  
COUNTY OF \_\_\_\_\_ §

This instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, 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 14<sup>th</sup> day of July, 2006, by D.A. Brelin, Attorney In Fact of Chevron U.S.A. Inc., a Pennsylvania corporation, on behalf of said corporation.



Luisa Ganung  
Notary Public, State of Texas

STATE OF NEW MEXICO   §  
                                     §  
COUNTY OF LEA         §

This instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, by \_\_\_\_\_, Authorized Officer of the Bureau of Land Management on behalf of the Bureau of Land Management.

\_\_\_\_\_  
Notary Public, State of New Mexico

**Brooks, David K., EMNRD**

---

**From:** Brooks, David K., EMNRD  
**Sent:** Wednesday, November 08, 2006 11:41 AM  
**To:** 'JamesBruc@aol.com'  
**Subject:** Apache infill applications

Jim

In reviewing these applications, I find that the BLM and SLO consents or communitization agreements (as applicable) are not included in the packages. We will need to be furnished copies of these documents prior to final issuance of orders in these cases.

11/8/2006



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ROSWELL FIELD OFFICE  
2909 West Second Street  
Roswell, New Mexico 88201-2019

IN REPLY REFER  
NM-116409  
3005.2 NM (513)

RECEIVED

AUG 01 2006

CORRECTION\*

TULSA  
LAND DEPT.

Apache Corporation  
Attn: Michelle Hanson  
6120 S. Yale, Suite 1500  
Tulsa, OK 74136-4224

Re: Cooperative Well Agreement  
Hawk A #30  
NW/4 of Section 9, T. 21 S., R. 37 E.  
Lea County, New Mexico

Dear Ms Hanson,

Enclosed is an approved copy of the Cooperative Well Agreement for the Hawk A #30 well located at 1310' FNL, 1310' FWL, Section 9, T. 21 S., R. 37 E., NMPM, Lea County, New Mexico. This agreement includes all oil and/or gas production from horizons encountered from the surface of the earth down to and including the base of the Drinkard formation. This agreement has been assigned Contract No. NMNM-116409.

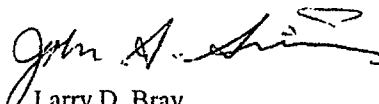
Production and royalties from the referenced well shall be allocated and reported to the Minerals Management Service (MMS) as follows:

Lease NMNM 90161	52.36%
*Lease NMLC 031741A	47.64%
Total	100.000%

Please furnish all interested principals with appropriate evidence of this approval.

If you have any questions, please contact Alexis C. Swoboda at (505) 627-0228 or the Division of Lands and Minerals at (505) 627-0272.

Sincerely,

  
Larry D. Bray  
for: Assistant Field Manager  
Lands and Minerals

cc:  
Swoboda: 7/28/2006





## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ROSWELL FIELD OFFICE  
2909 West Second Street  
Roswell, New Mexico 88201-2019

IN REPLY REFER  
NM-116409  
3005.2 NM (513)

RECEIVED  
JUL 05 2006  
TULSA  
LAND DEPT.

Apache Corporation  
Attn: Michelle Hanson  
6120 S. Yale, Suite 1500  
Tulsa, OK 74136-4224

JUN 29 2006

Re: Cooperative Well Agreement  
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Sincerely,

Larry D. Bray  
Assistant Field Manager  
Lands and Minerals

1 Enclosure:  
1 - Cooperative Well Agreement  
Swoboda: 6/28/2006

9. **TITLE**

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10. **NOTICES**

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

**APACHE CORPORATION**

**BP AMERICA PRODUCTION COMPANY**

By: John Swain  
Printed Name: John Swain  
Title: Attorney-In-Fact

By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**CHEVRON U.S.A. INC.**

**BUREAU OF LAND MANAGEMENT**

**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)

[jamesbruce@aol.com](mailto:jamesbruce@aol.com)

2006 NOV 13 PM 1 16

November 13, 2006

Hand Delivered

David K. Brooks  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Apache Corporation

Dear David:

This letter is in response to your e-mail of November 8<sup>th</sup> regarding notice and other issues:

1. My reference to "Lease Line Agreements" does mean the Cooperative Agreements signed by the working interest owners and the BLM. I apologize for the confusion.
2. As to notice to royalty owners and overriding royalty owners, our reasoning was as follows:
  - (a) As to the State and Federal leases, I view the Communitization Agreements and Cooperative Agreements as "modifying" the lease terms to allow the wells to be drilled and production accounted for under those agreements.
  - (b) There are no overriding royalty owners in the Hawk B lease and in all of the State leases. As to the Hawk A lease, the instrument creating the overriding royalty provides (as was common at that time) that it will be calculated and paid "the same as royalties payable to the government." Thus, I believe the BLM's approvals would cover those interests.

(c) In practical terms, the Division would never have allowed the wells to be drilled as close as they are to the lease lines without some type of sharing between leases, even if notice had been given to offsets. Mike Stogner stated to us that he would never have approved them. Therefore, approval of the locations does give everyone (working interest, royalty, and overriding royalty owners) production and revenue they never would otherwise receive.

(d) As to fee royalty owners and private overriding royalty owners, the working interest owners in the pertinent leases are ultimately accountable to them: Division approval does not shield an operator from the consequences of its actions. **Snyder Ranches, Inc. v. Oil Conservation Comm'n**, 110 N.M. 637 (1990).

(e) Under Division rules, when notice of an unorthodox location is required it is given to the offset working interest owners, who are presumed to look after their royalty and overriding royalty owners. In most instances (for wells which are not too severely unorthodox) the working interest owners often waive objection. In the Apache applications the working interest owners are actually securing additional revenues for the royalty and overriding royalty owners.

These are important questions which you have raised, and we have thought about them before. But, I believe that the working interest owners, in allocating production among the various leases, are protecting their royalty and overriding royalty owners (as well as themselves).

Very truly yours,



James Bruce

Attorney for Apache Corporation