

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop Cabinet Secretary

October 28, 2005

April 1 Land

Mark E. Fesmire, P.E. Director Oil Conservation Division

Apache Corporation James Bruce c/o P. O. Box 1056 Santa Fe, New Mexico 87504

Re: Administrative applications filed August 15, 2005 on behalf of Apache Corporation for the following two unorthodox Blinebry, Tubb, Drinkard, and Wantz-Abo oil well locations in the NW/4 SE/4 (Unit J) of Section 9, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico: (i) Hawk "B-1" Well No. 47 to be drilled 1330' FSL & 2400' FEL of Section 9 (administrative application reference No. pSEM0-522746044); and Hawk "B-1" Well No. 48 to be drilled 1440' FSL & 1332' FEL of Section 9 (administrative application reference No. pSEM0-522746168).

Dear Mr. Bruce:

On Monday afternoon, September 19, 2005, I sent you an e-mail, see copy attached, requesting an explanation and additional information concerning conflicting data within your application and the current development of the Tubb Oil and Gas Pool within the SE/4 of Section 9. To date I have not heard from you nor received anything further concerning this matter.

Approximately four years ago this agency enacted a policy whereby any incomplete administrative filing older then 30 days is to be withdrawn and returned. The Division on administrative filings, as I understand, adopted this policy, to better serve our customers and help assure a quicker turn around time. With no response, these applications are deemed to be incomplete and in order to fully comply with this policy, are hereby denied and being returned to you'at this time.

I will also take this opportunity to voice the Division's concerns about the recent activity initiated by Apache Corporation in the Blinebry and Tubb pools being very similar to what happened in the Jalmat and Eumont Gas Pools about 8 years ago and how the total disregard to the prorationing scheme and special rules at that time lead to the adoption of Division Order No. R-8170-P. Would the Tubb and Blinebry pools best be served if the Division took similar action to dissolve prorationing and place more restrictive measures on well locations and well density within both the Blinebry and Tubb pools?

Sincerely,

Michael E. Stogner Engineer

New Mexico Oil Conservation Division - Hobbs

Sent: Mon 9/19/2005 1:34 PM

Stogner, Michael, EMNRD

From:

Stogner, Michael, EMNRD

To:

Jim Bruce

Cc:

Subject:

RE: Hawk "B-1" Wells No. 47 and 48

Attachments:

Mr. Bruce:

With respect to the Tubb interval, my initial review of your applications for these two wells in the NW/4 SE/4 (J) of Section 9, T21S, R37E indicate that the SE/4 of Section 9 is currently dedicated to Apache Corp.'s Hawk "B-1" Well No. 7 (API No. 30-025-06439), located 660 feet from the South and East lines of Section 9, which according to the Division well and production records is classified a gas well. You stated on the third page of Exhibit "A" under the "Tubb" discussion paragraph that the No. 7 well is classified "oil" well. There appears to be some degree of contradiction here. I will hold this application until such time as Apache Corp. can provide a reasonable explanation with the necessary supporting data, or until an amended application is submitted that adequately addresses the Tubb interval underlying the SE/4 of Section 9. Thank you.

From: Stogner, Michael, EMNRD Sent: Mon 9/19/2005 8:53 AM

To: Thomas Kellahin

Cc: steffanie.hayes@usa.apachecorp.com

Subject: RE: Status of NSL's- Section 16-21S-37E, Lea County, NM

In reviewing your Apache Corp. application for the proposed State Land "15" Wells No. 9 and 10 (I reviewed the application for the Well No. 11 first and missed the following facts) I find that further explanation is needed concerning Apache's claim that the existing John H. Hendrix Corp. State Land "15" Well No. 4 (API No. 30-025-06633), located 660 feet from the South and East lines (Unit P) of Section 16 is classified as an oil well (see page 4 of your exhibit 1-C). The Division's production records between January, 2004 to July, 2005 shows gas production only, no oil. I also show that a non-standard 160-acre gas spacing and proration unit comprising the S/2 S/2 of Section 16 was approved for this well in April 1954 (see Division Order No. R-454 attached above). The well Division's well file does have a C-102 filed in late June, 2005 showing the Tubb with 40-acre dedication (see attachment). Was this showing it to be a standard 40-acre oil unit or a rededicated 40acre GPU? Rule 2 (a) 3 of the "special Rules and Regulations for the Tubb Oil and Gas Pool", as promulgated by Division Order No. R-8170, as amended, prohibits the simultaneous dedication Tubb oil acreage and Tubb gas acreage. As it stands now I cannot approve any of these three applications.

As an observation, the recent activity that Apache has initiated in the Blinebry and Tubb pools is very similar to what happened in the Jalmat and Eumont Gas Pools about 8 years ago. That particular disregard to the prorationing scheme and special rules lead to the adoption of Division Order No. R-8170-P. Would the Tubb and Blinebry pools best be served if the Division took similar action?

I am sending a copy of this e-mail to Jim Bruce because I have several pending administrative applications from him on behalf of Apache Corporation.

From: Thomas Kellahin [mailto:kellahin@earthlink.net]

Sent: Wed 9/14/2005 9:59 AM To: Stogner, Michael, EMNRD

Cc: Steffanie Hayes

Subject: Fw: Status of NSL's- Section 16-21S-37E, Lea County, NM

Mike:

Apache has request a status report for the following:

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



J-9-7215-R37E

		ADMINISTRATIVE APPLICATION CHECKLIST	
Ti	HIS CHECKLIST IS MA	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REI WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	odbytyjons_
	eation Acronyms [NSL-Non-Star [DHC-Down [PC-Po	Who we was a second with the order of the or	on]DEC 2 0 2005
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	, 4
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM	2 005 FNG
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR	15
	[D]	Other: Specify	<u> </u>
[2]	NOTIFICATI	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	C 0 P 3
	[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]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS TO ATION INDICATED ABOVE.	не түре
[4] appro- applic	val is accurate as ation until the re	FION: I hereby certify that the information submitted with this application for admind complete to the best of my knowledge. I also understand that no action will be to quired information and notifications are submitted to the Division.	
		Statement must be completed by an individual with managerial and/or supervisory capacity.	2115/05
	es Bruce or Type Name	Signature Attorney for applicant	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) (5050 982-2151 (Fax)

jamesbruc@aol.com

August 15, 2005

Hand Delivered

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

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 Name:

Hawk B-1 Well No. 48

Well Location:

1440 feet FSL & 1332 feet FEL

Well Unit:

NW1/4SE1/4 of Section 9, Township 21 South, Range 37 East,

N.M.P.M., Lea County, New Mexico

The well will test the Blinebry (Blinebry Oil and Gas Pool), Tubb (Tubb Oil and Gas Pool), Drinkard (Drinkard Pool), and Abo (Wantz Abo Pool) formations, and applicant requests unorthodox location approval in all of four zones.

The application is based on geological and engineering reasons in the Blinebry, Tubb, and Drinkard formations. A complete discussion, with exhibits, is attached as Exhibit A. The well is located in the approximate center of Blinebry, Tubb, and/or Drinkard wells in Unit Letters I, J, O, and P of Section 9, and the proposed location will drain additional undrained reserves. The Blinebry and Tubb zones are expected to be oil productive.

The Tubb will be tested as applicant drills to total depth, and the Abo is a secondary objective which will be inexpensive to test with the drilling of this well.

Unit J will be simultaneously dedicated, in the Blinebry and Drinkard formations, to the proposed well and the existing Hawk B-1 Well No. 2, and the proposed Hawk B-1 Well No. 47, and applicant requests simultaneous dedication approval.

Exhibit B is a land plat, highlighting the proposed well's location. The E½SW¼ and SE¼ of Section 8, and the S½ and E½NW¼ of Section 9, are covered by U.S. Lease NM 90161. The operating rights owners in the lease are as follows:

Apache Corporation Chevron Texaco Inc. BP America Production Company

Also, royalty and overriding royalty interests in the lease are common. As a result, notice of this application was not given to any offset interest owner.

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

Very/truly yours,

James Bruce

Attorney for Apache Corporation

Hawk B-1 Well No. 48 1440' FSL & 1332' FEL Section 9, Township 21 South, Range 37 East, NMPM Lea County, New Mexico

PRIMARY OBJECTIVES:

Blinebry, Tubb, and Drinkard

SECONDARY OBJECTIVE:

Abo

In support:

1. Apache Corporation (Apache) is the operator of the proposed **Hawk B-1 #48** well (**Exhibit 1**).

2. The proposed unorthodox location is offset by the following wells which are, or have been productive from various reservoirs which will be penetrated. (Exhibit 2)

				CUM	DAILY	
OPER	WELL	LOC	RESERVOIR	O/G/W	O/G/W	POOL
Apache	Hawk B-1 #25	9-J	GRBG	27/205/34	10/83/7	Penrose Skelly Grayburg
Apache	Hawk B-1 #2	9 - J	BLBY	96/5077/29	3/48/0	Blinebry Oil and Gas
Apache	Hawk B-1 #2	9-J	DRKD	346/1192/29	1/2/0	Drinkard
Apache	Hawk B-1 #37	9-1	GRBG	3/9/0	17/55/0	Penrose Skelly Grayburg
Apache	Hawk B-1 #13	9-1	BLBY	180/2066/41	3/33/0	Blinebry Oil and Gas
Apache	Hawk B-1 #13	9-1	DRKD	129/1362/34	3/21/0	Drinkard
Apache	Hawk B-1 #30	9-I	GRBG	19/87/42	12/65/17	Penrose Skelly Grayburg
Apache	Hawk B-1 #36	9-P	GRBG	13/33/24	33/98/23	Penrose Skelly Grayburg
Apache	Hawk B-1 #36	9-P	SADR	4/10/14	0/0/0	East Hare San Andres
Apache	Hawk B-1 #27	9-P	GRBG	27/90/87	16/42/601	Penrose Skelly Grayburg
Apache	Hawk B-1 #7	9-P	BLBY	22/570/10	5/114/1	Blinebry Oil and Gas
Apache	Hawk B-1 #7	9-P	DRKD	11/349/32	1/45/0	Drinkard
Apache	Hawk B-1 #7	9-P	TUBB	73/4674/0	0/42/0	Tubb Oil and Gas
Apache	Hawk B-1 #35	9-P	GRBG	11/51/9	34/193/24	Penrose Skelly Grayburg
Apache	Hawk B-1 #38	9-0	GRBG	13/37/15	26/110/14	Penrose Skelly Grayburg
Apache	Hawk B-1 #8	9-0	BLBY	29/616/5	1/13/0	Blinebry Oil and Gas
Apache	Hawk B-1 #8	9-O	DRKD	247/3830/32	10/140/1	Drinkard
Apache	Hawk B-1 #28	9-0	GRBG	56/145/38	18/152/39	Penrose Skelly Grayburg

MBO MMCFG MBW BOPD MCFGPD BWPD



3. The proposed **Hawk B-1 # 48** unorthodox location of 1440' from south line and 1332' from east line is predicated by geological, location, and 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, have been used here. 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.

All three formations are shallow marine carbonates, consisting primarily of dolomite. The Tubb has appreciable clastic content and the Drinkard becomes 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.

Structure is significant in that it controls the fluid distribution and amount of pay above and below the Blinebry gas-oil contact and above the Drinkard oil-water contact.

Apache approached its evaluation by mapping log derived SoPhiH for each of four major reservoirs: Blinebry Gas Cap, Blinebry Oil Leg, Tubb, and Drinkard. This analysis required modern neutron-density and resistivity logs for any well to be used. Many wells thus had to be excluded from analysis because of the vintage of downhole logs or lack of a full logging suite. Sufficient new well control exists near the proposed location to feel comfortable with this interpretation.

1. Blinebry Gas Cap (Exhibit 3)

Thickness of the Blinebry Gas Cap is partially related to the subsea top of the Blinebry. The higher the top, the thicker the gas cap can be. Using a 5% threshold, porosity averages 9.8% and water saturation averages 29.5% in 138 nearby wells selected for analysis. SoPhiH at this location is expected to be 3.4'.

2. Blinebry Oil Leg (Exhibit 4)

Thickness of the Blinebry Oil Leg is partially related to the subsea top of the Blinebry, the higher the top, the thinner the oil leg might be. Using a 5% threshold, porosity averages 8.5% and water saturation averages 31.6% in 171 nearby wells selected for analysis. SoPhiH at this location is expected to be 5.9'.

3. Tubb (Exhibit 5)

The Tubb is generally considered to be a gas reservoir, although no gas-oil or gas-water contact has been suggested and oil completions are common. Using a 5% porosity threshold and a 50 APIU Gamma Ray threshold because of the greater amount of clastic material, porosity averages 8.0% and water saturation averages 31.1% in 208 nearby wells selected for analysis. SoPhiH at this location is expected to be 5.5'. Only 1 well (Hawk B-1 #7) in the four affected spacing units has ever produced the Tubb and it is currently classified as an oil well.

4. Drinkard (Exhibit 6)

The thickness of the Drinkard pay is also related to its subsea position, the higher the top, the thicker the interval can be. Using a 5% threshold, porosity averages 9.1% and water saturation averages 25.6% in 191 nearby wells selected for analysis. SoPhiH at this location is expected to be 7.3'.

5. Abo

The Abo is immediately sub adjacent to the Drinkard. This location is included in Wantz; Abo Pool. It is a secondary objective that will cost less than \$50,000 to drill and complete in this wellbore but it cannot be drilled as a primary target. No well in the affect Spacing units has produced the Abo and only the Hawk B-1 #13 has penetrated it.

6. Uphole Reservoirs

If potentially commercial reservoirs are encountered in the Grayburg and San Andres, a separate wellbore will be proposed to exploit those reservoirs.

b. Location

Apache's intent was to place the well equidistant from the productive Blinebry, Tubb, and Drinkard wells, but surface conditions forced the location to move slightly north of the common intersection of Units I, J, O, and P.

c. Drainage

The proposed **Hawk B-1 #48** is a "true" 20 Acre infill location between existing Blinebry, Tubb, and Drinkard producers. It is approximately equidistant from those wells and should encounter an undrained reservoir volume.

Reservoir engineering used the SoPhiH maps to estimate drainage of each offsetting well in each reservoir. Recoverable reserves for this location are calculated as the volume under a 20 A radius (less if the

direct offsets were not capable of draining 20 A) with reduced reservoir pressure where drainage has occurred. Drainage offsetting this location is as follows:

					EUR		DRAINED
SEC	LEASE NAME	WELL	PROD ZONE NAME	OIL	WATER	GAS	ACRES
9	Hawk B-1	2	BLINEBRY GAS CAP	50250	14430	5025	176
9	Hawk B-1	13	BLINEBRY GAS CAP	10590	20388	1059	34
9	Hawk B-1	7	BLINEBRY GAS CAP	7650	5000	765	26
9	Hawk B-1	8	BLINEBRY GAS CAP	4840	2460	484	20
9	Hawk B-1	2	BLINEBRY OIL LEG	59075	14430	344	13
9	Hawk B-1	13	BLINEBRY OIL LEG	184153	20388	1168	37
9	Hawk B-1	7	BLINEBRY OIL LEG	28529	4965	190	7
9	Hawk B-1	8	BLINEBRY OIL LEG	23810	2460	132	7
9	Hawk B-1	2	TUBB				
9	Hawk B-1	13	TUBB				
9	Hawk B-1	7	TUBB	86734	246	5059	109
9	Hawk B-1	8	TUBB				
9	Hawk B-1	2	DRINKARD	345866	29488	1192	54
9	Hawk B-1	13	DRINKARD	137387	33888	1442	30
9	Hawk B-1	7	DRINKARD	19530	31881	641	4
9	Hawk B-1	8	DRINKARD	287450	31193	4494	48

Volumetrics for the proposed location are as follows:

			RESERVOIR	DRAINAGE	EUR		
		PROD ZONE NAME	PRESSURE	ACRES	OIL (BO)	GAS (BCFG)	
HAWK B-1	48	BLINEBRY GAS CAP	500	20	0	0	
		BLINEBRY OIL LEG	2100	16	54242	461	
		TUBB	1100	20	2380	238	
		DRINKARD	1100	20	46548	698	
		TOTAL			130170	1397	

4. Notice

Apache is the operator of the Blinebry, Tubb, and Drinkard wells toward which the proposed well will encroach and would also operate any Abo wells. All four reservoirs are contained within one oil and gas lease (Hawk Federal which includes, among other acreage, all of S1/2 §9) with common working and revenue interest owners. Therefore, there are no adversely affected parties and no one was notified of the application.

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 and to do so without violating correlative rights. 5.

State of New Mexico

DISTRICT I 1625 M. FRENCH DR., 60609, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

DISTRICT III

1301 W. CRAND AVENUE, ARTESIA, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV	WELL LOCATION AND	ACREAGE DEDICATION	PLAT	□ AMENDED REPO
API Number	Pool Code		Pool Name	
Property Code	Pro	perty Name		Well Number
	HA	WK B-1		48
OGRID No.		crator Name CORPORATION		Elevation 3479

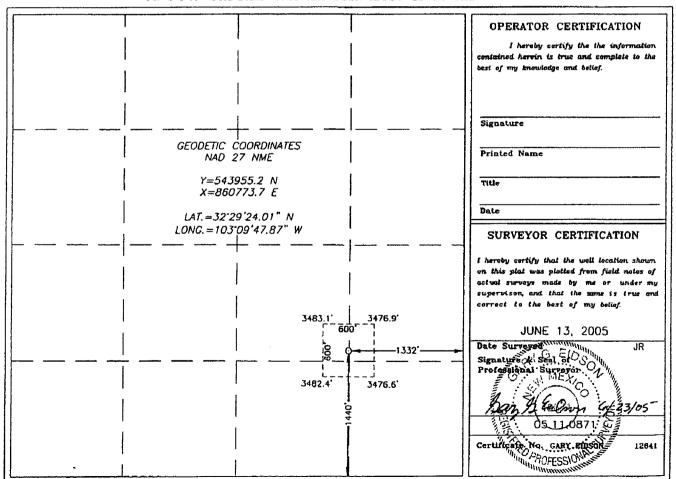
Surface Location

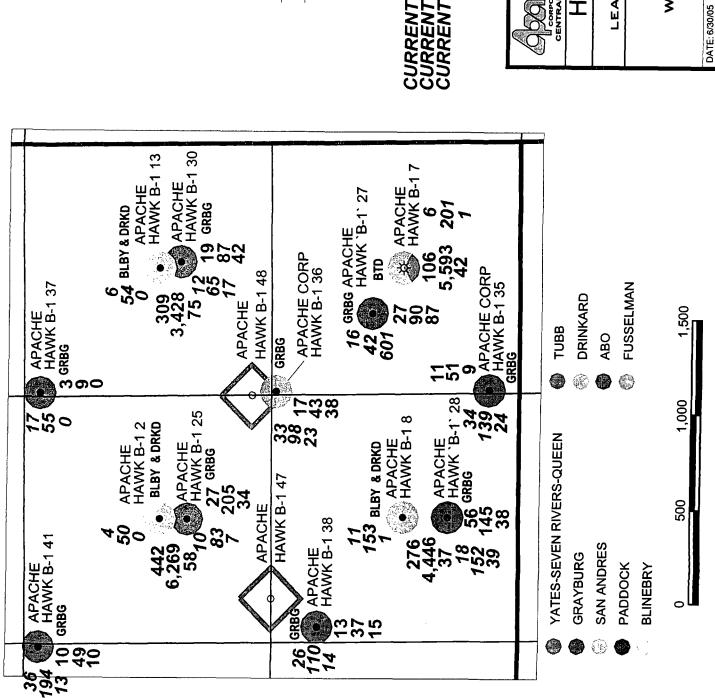
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
J	9	21-S	37-E		1440	SOUTH	1332	EAST	LEA

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	Soint o	r infili Cos	nsolidation (Code Or	der No.			<u> </u>	

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





WELL SYMBOLS

- Location Only

Oil Well

- Gas Well
- Ω

POSTED WELL DATA

PRODUCING FORMATION

OPERATOR WELL LABEL MMCFG MBO CURRENT BOPD CURRENT MCFD CURRENT BWPD

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

MBW

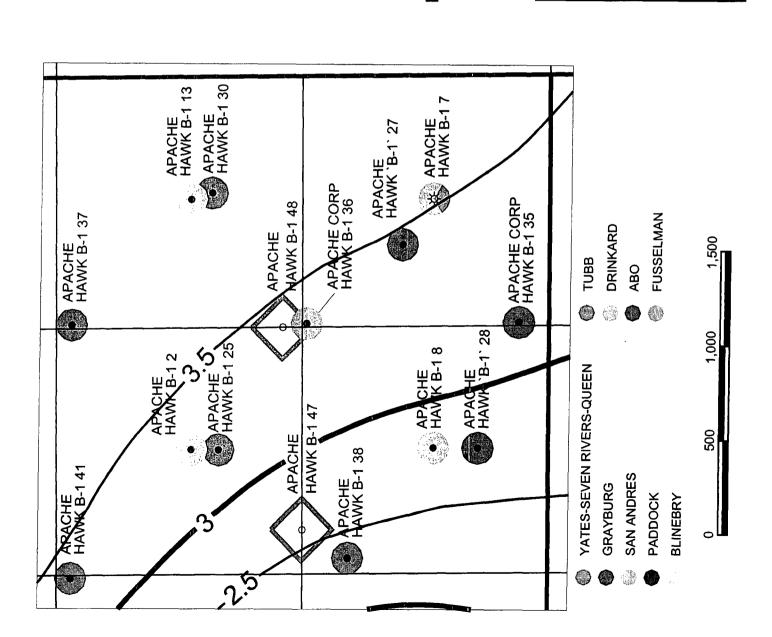
#48 HAWK B-1

SEC 9-T215-R37E LEA COUNTY, NEW MEXICO

EXHIBIT

WELL INFORMATION

DWG:CURTIS/OCD-NM/2005/HAWK B-1 48/EX 2



WELL SYMBOLS

- Location Only
- ☆ Gas Well Oil Well
- → Dry

POSTED WELL DATA

BLBY GAS CAP SOPHIH



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

HAWK B-1

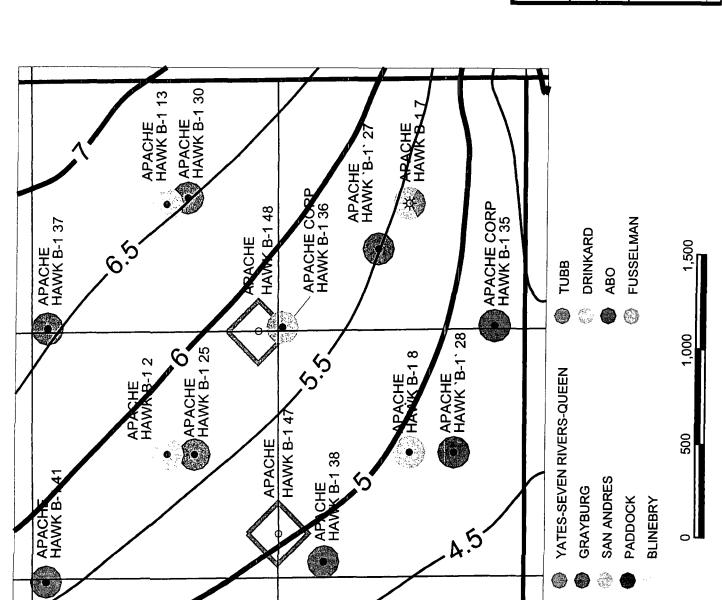
SEC 9-T215-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 3

BLBY GAS CAP SOPHIH

DWG:CURTIS/OCD-NM/2005/HAWK B-1 48/EX 3

DATE: 6/30/05



WELL SYMBOLS

- Location Only
- ⇔ Gas Well Oil Well
- → Dry

POSTED WELL DATA

BLBY OIL LEG SOPHIH

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

#48 HAWK B-1

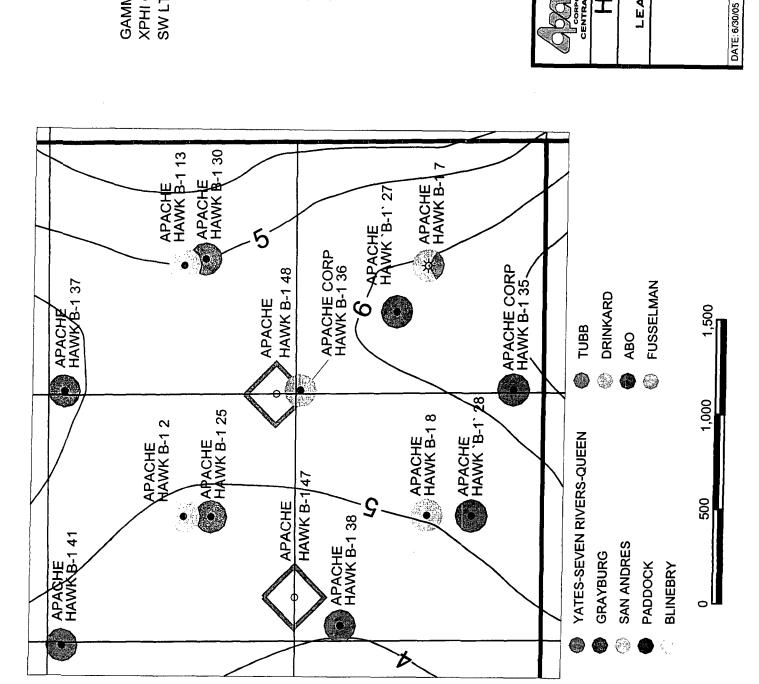
SEC 9-T215-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 4

BLBY OIL LEG SOPHIH

DATE: 6/30/05

DWG:CURTIS/OCD-NM/2005/HAWK B-1 48/EX 4



WELL SYMBOLS

- Location Only

Oil Well

- 🜣 Gas Well
- Ω

POSTED WELL DATA

TUBB SOPHIH



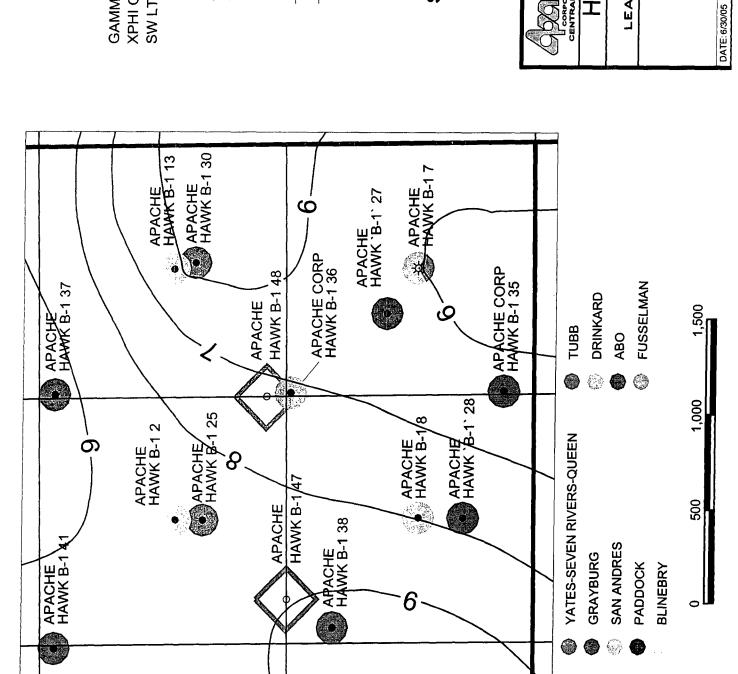
TWO WARREN PLACE, SUITE 1500 6120 SOUTH YALE TULSA, OKLAHOMA 74136-4224

HAWK B-1 #48

SEC 9-TZ1S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT

TUBB SOPHIH



WELL SYMBOLS

- Location Only
- Oil Well
- 🕁 Gas Well
 - ΟŊ

POSTED WELL DATA

• DRKD SOPHIH



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

HAWK B-1 #48

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 6

DRKD SOPHIH

Subj: Invoice - Legal Opinion

Date: 8/3/2005 2:29:50 PM Mountain Standard Time

From: dconnelly@velaw.com

To: sbayless@Petrohawk.com, sherod@Petrohawk.com, lhelm@petrohawk.com

CC: JamesBruc@aol.com, tcounts@hinklaw.com, delkouri@hinklaw.com, ctatum@hinklaw.com,

rhoover@hinklaw.com

Gentlemen.

Please find attached an invoice for legal fees from Jim Bruce. Mr. Bruce drafted the New Mexico legal opinion. Please review and send payment directly to Mr. Bruce. Thanks.

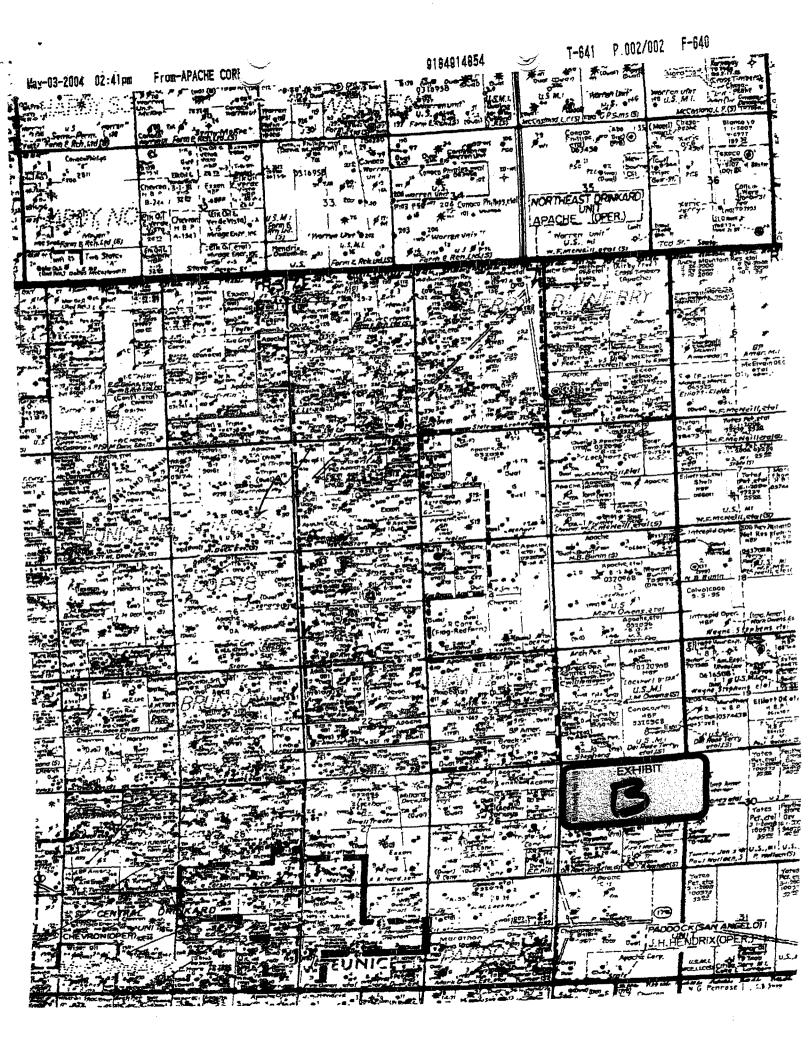
J. Dan Connelly Vinson & Elkins L.L.P. 2300 First City Tower 1001 Fannin Street Houston, Texas 77002 Phone: (713) 758-2838

Fax: (713) 615-5159

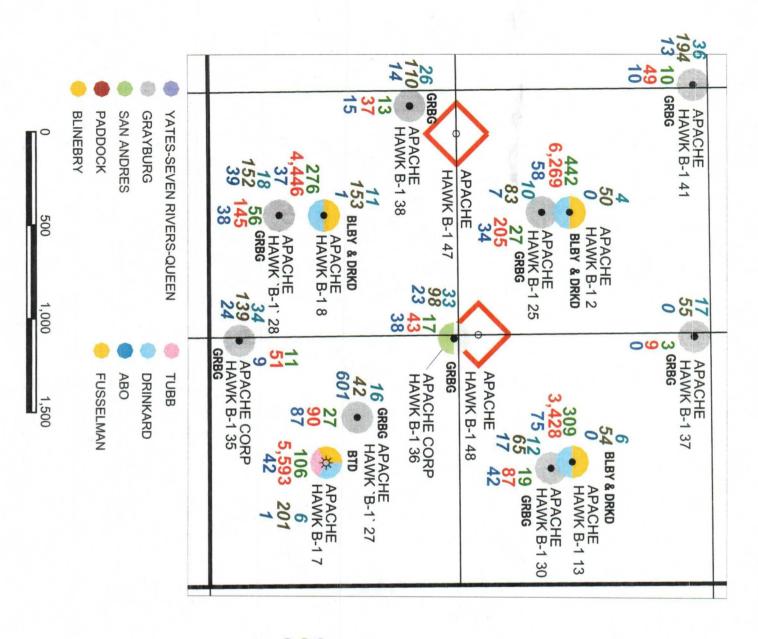
.....CONFIDENTIALITY NOTICE......

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the individual or organization named above. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system.

Thank You.



• (-									
Attachmen	its can contain viruses that may harm your computer. Attac	hments may not display correctly.							
Stogner, M	lichael, EMNRD								
From:	JamesBruc@aol.com [JamesBruc@aol.com]	Sent: Mon 8/15/2005 7:59 AM							
To:	Stogner, Michael, EMNRD								
Cc:									
Subject:	Apache unorthodox locations								
Attachment	S: HAWKB-146.ppt(889KB) GULFHILL8.ppt(882KB)	☐ <u>HAWKB-147.ppt(965KB)</u> ☐ <u>HAWKB-148.ppt(805KB)</u>							
Mike: I am fi	iling four applications today. Attached are color co	ppies of the geological exhibits.							
Jim									



WELL SYMBOLS

- Location Only
- Oil Well
- Dry Gas Well

POSTED WELL DATA

PRODUCING FORMATION

CURRENT BOPD CURRENT MCFD CURRENT BWPD MMCFG

MBO OPERATOR WELL LABEL

MBW

CENTRAL REGION

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

HAWK B-1 #4 00

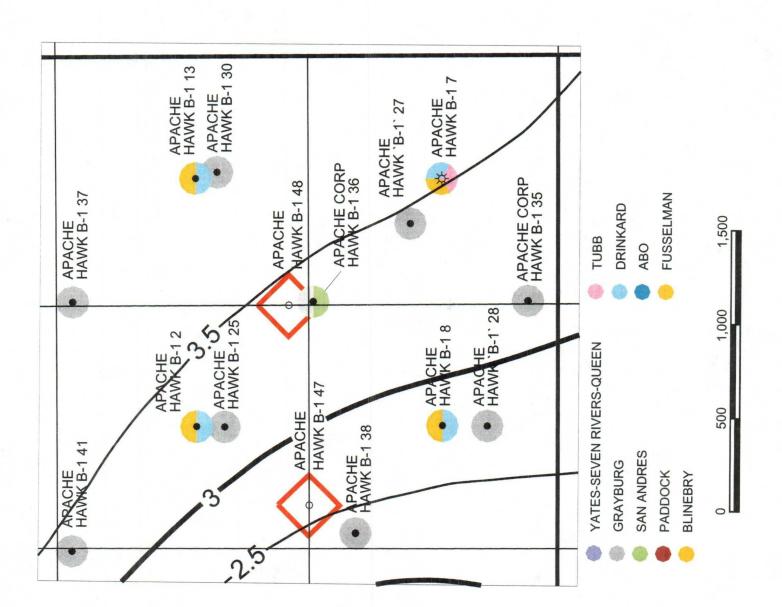
SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 2

WELL INFORMATION

DWG:CURTIS\OCD-NM\2005\HAWK B-1 48\EX 2

DATE: 6/30/05



WELL SYMBOLS

- Location Only
- Oil Well
- Gas Well
- Dry

POSTED WELL DATA

BLBY GAS CAP SOPHIH • OPERATOR

WELL LABEL



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

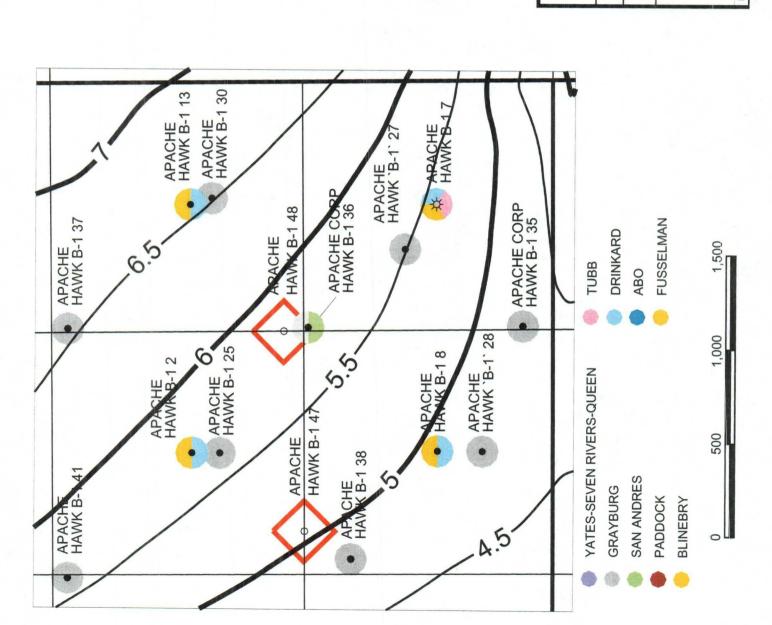
HAWK B-1 #48

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 3

BLBY GAS CAP SOPHIH

DATE: 6/30/05



WELL SYMBOLS

- Location Only
- Oil Well
- Dry

POSTED WELL DATA

BLBY OIL LEG
SOPHIH • OPERATO

CORPORATION CENTRAL REGION

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

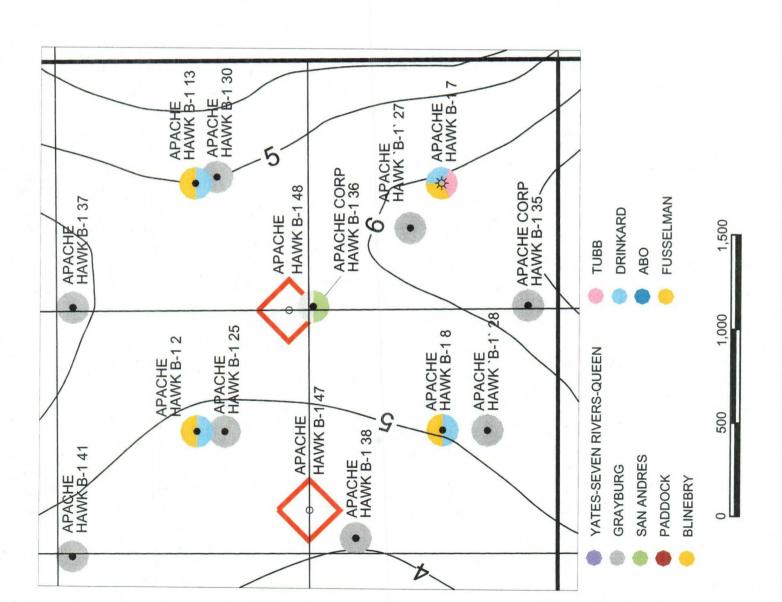
HAWK B-1 #48

SEC 9-TZ1S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 4

BLBY OIL LEG SOPHIH

DATE: 6/30/05



WELL SYMBOLS

- Location Only
- Oil Well
 - Dry

POSTED WELL DATA

TUBB SOPHIH •

OPERATOR WELL LABEL



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

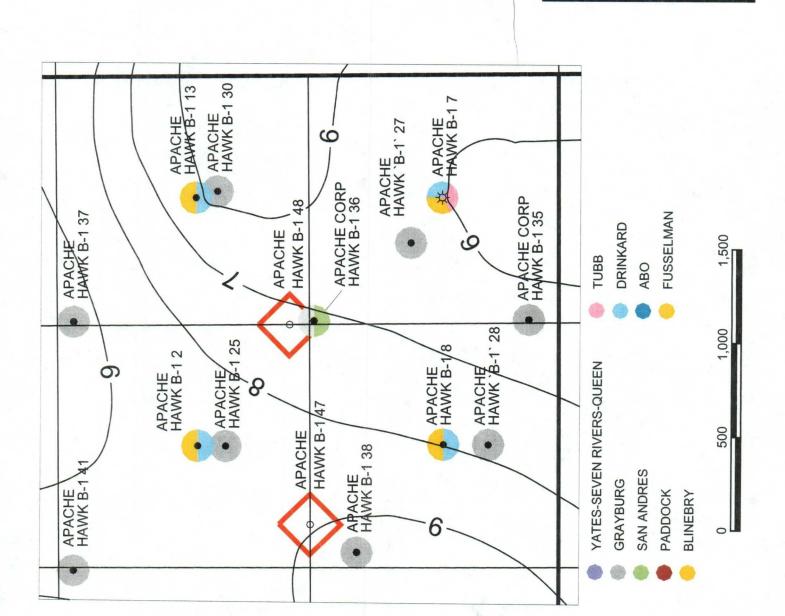
HAWK B-1 #48

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT 5

TUBB SOPHIH

DATE: 6/30/05



WELL SYMBOLS

- Location Only
- Oil Well
- Gas Well
 - Dry

POSTED WELL DATA

SOPHIH

OPERATOR WELL LABEL



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

00 # 4 B-1 HAWK

SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO

EXHIBIT

DRKD SOPHIH

DATE: 6/30/05