2-21-05

3-14-25 SUSPENSE

ENGINEER MES

LOGGED IN ....

TYPE NSL

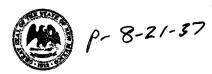
PM 508736406

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



## **ADMINISTRATIVE APPLICATION CHECKLIST**

	HIS CHECKLIST IS MA							RULES AND REG	GULATIONS	_
Applic	cation Acronyms		IICH REQUIRE PRO	CESSING AT THE	DIVISION	LEVEL IN SANT	AFE			
-thb::/	_		ion] [NSP-Non	-Standard Pro	oration U	nit] [SD-Sin	nultaneo	us Dedicatio	on]	
		nhole Comm		<b>B-Lease</b> Com				Comminglin	rg]	
	_	ol Comming	, v	Off-Lease Sto		[OLM-Off-Le		_		
		-	rflood Expansion Salt Water Dis			Vaintenance Pressure In	-	ionj		
	[EOR-Qual	_	ced Oil Recov		-		_	ion Respons	e]	
[1]	TVPE OF AP	PLICATIO	N - Check Tho	se Which An	nly for [A	A]				
[1]	[A]		- Spacing Unit				- 1	20 22 -	. 7/	<u> </u>
		X NSL		SD				30-023	- 36532	/
	Check	One Only f	for [B] or [C]							K K
	[B]		ling - Storage -	Measurement	t					团
		☐ DHC		☐ PLC ☐	] PC [	OLS [	OLM	1		
	[C]	Injection	- Disposal - Pre	coura Inaranca	Enhan	and Oil Band		12	<u>.</u> <u>0</u>	TTI
	رکا		Marian PMX		IPI		PPR	Santa	FEB	
		U				L DOR		S In Co	) is $\overline{\omega}$	
	[D]	Other: Sp	ecify	***	<del></del>		<del></del>	Santa Fe, NM 37505	EEB 2 1 2005 Conservation Division	[1]
[2]	NOTIFICAT	ON DEOL	J <b>IRED TO:</b> - C	haale Thasa W	Which Am	nic on Do	as Not A		. 2	
[2]	[A]		king, Royalty of					ppry SS E	2005 on Dit	C. C
	[**]		ang, Royally of	o vomania i	cojuicj ii	itorost o wite		Orio Driv	visi	
	[B]	Offse	et Operators, Le	easeholders or	Surface	Owner		ě	on	
	[C]	☐ Appl	ication is One	Which Dequire	ec Dublic	hed Legal N	otion			U
	رکا	∟ Аррі	ication is one	winch Require	es ruons	neu Legai IV	once			
	[D]	☐ Notif	fication and/or	Concurrent Ap	proval b	y BLM or Sl	LO			
		U.S. Bur	reau of Land Managem	ent - Commissioner o	of Public Lands	s, State Land Office	е			
	[E]	For a	all of the above,	Proof of Noti	fication of	or Publication	n is Attac	ched, and/or,		
	[F]	☐ Waiv	ers are Attache	a₫						
[3]			AND COMPLI		MATION	N REQUIRI	ED TO P	ROCESS T	HE TYPE	
	OF APPLICA	TION IND	DICATED ABO	OVE.						
[4]	CERTIFICAT	ΓΙΟΝ: I he	reby certify tha	t the informati	ion subm	itted with the	is applica	tion for adm	inistrative	
	val is accurate a	nd <mark>complet</mark> e	e to the best of	my knowledge	e. I also i	understand th	hat <b>no ac</b>	tion will be t	aken on this	
	cation until the re-									
	Note:	Statement m	ust be completed	by an individual	with mana	gerial and/or	supervisor	y capacity.		
J	ames Bruce		/ auce	s/XU	4	Attorney	for a	pplicant	2/18/05	
	or Type Name	(	Signature	-1 (		Title			Date	_
			/				A1			
			I			jamesbru	.TOB951	COIII		

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 18, 2005

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

Re: Request to Amend Division Administrative Order NSL-4954(SD) to include the San Andres formation

Dear Mr. Stogner:

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

Well: Hawk B-1 Well No. 39

Location: 1200 feet FSL & 80 feet FEL

Well Units: SE%SE% of Section 8, 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-4954-SD.

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

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

<sup>1</sup> See Division Order No. R-12190. The oil pool includes the S½ of Section 9.

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 SE% of Section 8 and SW% of Section 9 (and other acreage) is covered by a single federal lease (NM 90161), which has common royalty, overriding royalty, and working interest ownership in the Grayburg and San Andres formations. Although the well is very unorthodox, there are no adversely affected interest owners, and no one has been notified of this application.

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

Very truly yours,

James Bruce

Attorney for Apache Corporation

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

## 40 acres – 1200' FSL & 80' FEL Section 8, 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 #39** well. The total depth drilled is 4350' in the San Andres formation. It 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-4954 was issued for the Grayburg reservoir. Order R-12190 now extends the East Hare San Andres Oil Pool to within 80 feet of 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 #40	09-M	San Andres	1/13/13	17/510/256
				MBO	BOPD
				MMCFG	MCFGPD
				MBW	BWPD

- 3. The **Hawk B-1 #39** unorthodox San Andres location of 1200' from south line and 80' from east line is based on 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) Even though the location is unorthodox, the entire drainage area is contained within the Hawk B-1 lease.
  - d) The following table provides drainage areas calculated from the net pay map and reserves of offsetting San Andres well.

WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Hawk B-1 #40	09-M	38	33	1200

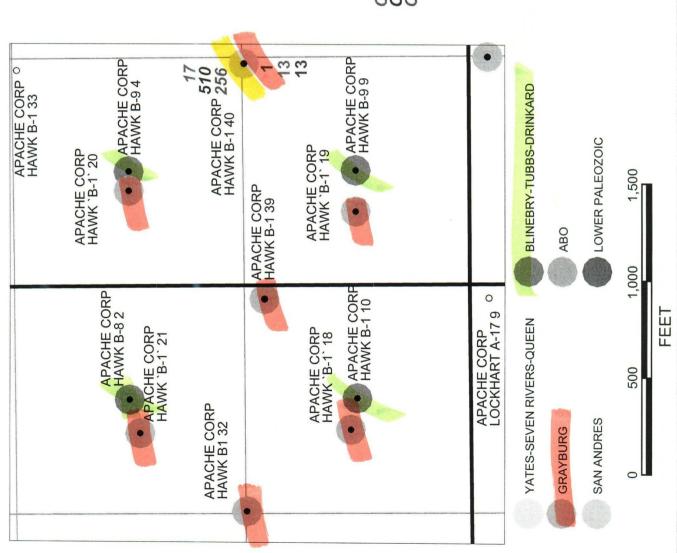


Volumetrics and reserves for the Hawk B-1 #39 are:

WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Hawk B-1 #39	08-P	38	10	500

### 4. Notice

- a. The Hawk Federal Lease covers, among other acreage, the SE $\frac{1}{4}$  §8 and SW $\frac{1}{4}$  §9. Interest ownership in the San Andres Formation is common in the lease. Therefore, there are no adversely affected parties and no one was notified of the 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.



## WELL SYMBOLS

- Location Only
- Gas Well

Oil Well

Dry

# POSTED WELL DATA

OPERATOR WELL LABEL MMCFG MBO CURRENT BOPD CURRENT MCFD CURRENT BWPD

MBW

alposo 6 U CORPORATION
CENTRAL REGION

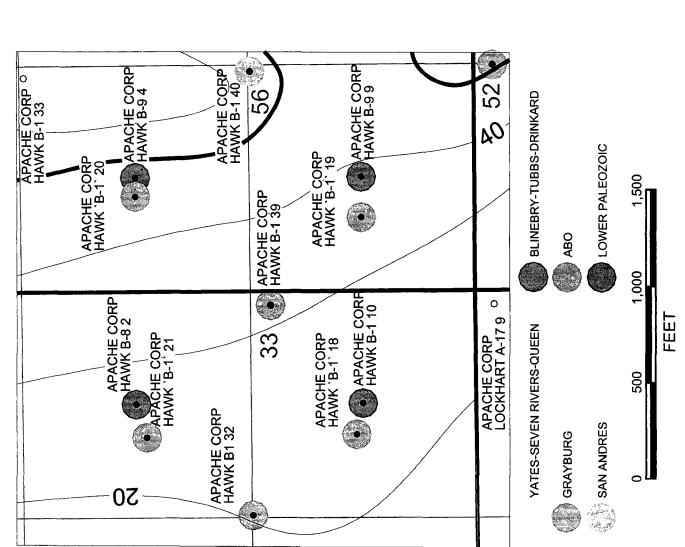
TWO WARREN PLACE, SUITE 1500 6120 SOUTH YALE TULSA, OKLAHOMA 74136-4224

# B-1 AWK SEC 8-T215-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 0

Oil Well

- Gas Well
  - ٥

# POSTED WELL DATA

# OPERATOR WELL LABEL SAN ANDRES NET PAY

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

#39 hawk b-1 SEC 8-T219-R37E LEA COUNTY, NEW MEXICO

SAN ANDRES NET PAY EXHIBIT

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

Werder Hall Start Hall
The state of the s
4 90161   Section 1704   Section 1704   Section 1705   Section 170
Toylor O Corn.   150 mg   150
25   25   25   25   25   25   25   25
To Tras   Control   Contro
9 1916 8 c Gray Pet. 1 1916 1917 1916 1917 1916 1917 1916 1917 1916 1917 1916 1917 1917
TELETON GOVERNA OBJAN OB
Apache stell   Apache stell   Apache stell   Apache   A
The state of the s
Apoche, tol 2 (mark) (2) (mark) (mark
Apache (Calvalcade )
The state of the s
Down Sales Company of the Company of
tran Res. 1 mm 1 Tran 1
itan Res.   1 mm   1 Tro   1 mm   1 m
tran Res.    The property of t
trankes in the property of the
The second secon
To all the property of the pro
Company   Comp
To the control of the
The color of the
The color of the
Control   Cont