PME50-508738512

Howk B-1#36 30-05-36530

2-2/-05 date in			EXICO OIL CO	DVE THIS LINE FOR DMISION USE O DNSERVATION Pring Bureau -		APP NO.	-21-37
		1220	-	Drive, Santa Fe, NI	4 87505		
		ADMIN	IISTRATIV	E APPLICA	TION CHEC	KLIST	
THIS CHEC		v		TIVE APPLICATIONS FC CESSING AT THE DIVISI			GULATIONS
[NSL- [D	Non-Sta HC-Dow [PC-Pc	ndard Loc nhole Com ol Commi [WFX-Wat [SW]	umingling] [CT  ngling] [OLS - ( erflood Expansio D-Salt Water Disp	Standard Proratio B-Lease Commingi Off-Lease Storage] on] [PMX-Pressur osal] [IPI-Injecti ory Certification]	ing] [PLC-Pool/ [OLM-Off-Leas re Maintenance E on Pressure Incre	Lease Comminglin e Measurement] xpansion]	ng]
[1] <b>TYP</b> ]	E OF AI [A]		n - Spacing Unit -	se Which Apply for Simultaneous Dedi ] SD			1
	Check [B]		o for [B] or [C] ngling - Storage - IC [] CTB [	Measurement	🗌 ols 🔲	OLM 13	OIL
	[C]	Injection		sure Increase - Enh		PPR	Conserva
	[D]	Other: S	pecify	u. <u></u>			ZINIS
[2] <b>NOT</b>	IFICAT [A]			heck Those Which Overriding Royalty	~ • • • • • • • • • • • • • • • • • • •	Not Apply	FEB 21 2005 FEB 21 2005 Oil Conservation Division
	[B]	Off	fset Operators, Le	aseholders or Surfa	ce Owner		(
	[C]	🗌 Ap	plication is One V	Vhich Requires Pub	lished Legal Notic	e	
	[D]	No U.S.	tification and/or C Bureau of Land Manageme	Concurrent Approva	l by BLM or SLO ands, State Land Office		
	[E]	For	all of the above,	Proof of Notification	on or Publication is	Attached, and/or,	
	[F]	🗌 Wa	ivers are Attache	d			
			AND COMPLE	TE INFORMATI DVE.	ON REQUIRED	TO PROCESS T	НЕ ТҮРЕ
approval is ac	ccurate antil the re	and complexed information of the second seco	ete to the best of r ormation and noti	the information sunt with the information sunt submitted by the second sec	so understand that ted to the Divisior	<b>no action</b> will be a	
-		: Statement		by an individual with m			0/10/0r
James Print or Type N			Jame Signature	string	Attorney f	or applicant	2/18/05
				·	jamesbruc@ e-mail Address	aol.com	

#### 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-4955(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:

<u>Well</u> :	Hawk B-1 Well No. 36
Location:	1310 feet FSL & FEL
Well Unit:	SE%SE% 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-SD.

The well was also drilled deep enough to test the San Andres formation (which at that time was in the Hare-San Andres Gas Pool, spaced on 160 acres). The well was at an orthodox gas well location. The well is now located in the East Hare-San Andres (Oil) Pool,<sup>1</sup> 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 well tests show that there is San Andres potential, and producing the wells from both zones will make the well more economical and extend the life of the well. An engineering and geological discussion is attached as Exhibit A.

1 <u>See</u> Division Order No. R-12190.

Attached as Exhibit B is a land plat, highlighting the proposed well's location. The S½ 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,

1

Attorney for Apache Corporation

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

# 40 acres – 1310' 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 #36** well. The total depth drilled is 4732' in the San Andres formation. The well previously tested as a San Andres oil well and is currently perforated in and productive from the Grayburg.
- The Hawk B-1 #36 well was drilled as a standard location in the Hare; San Andres Gas Pool and as an NSL in the Penrose Skelly; Grayburg Oil Pool. Administrative Order NSL-4955 was issued for the Grayburg reservoir. Order R-12190 now extends the East Hare San Andres Oil Pool over this location. As to the San Andres reservoir, the location encroaches toward no currently productive San Andres well (Exhibit 1).
- 3. The **Hawk B-1 #36** unorthodox San Andres location of 1310' from south line and 1310' from east line is based on wellbore availability.
  - a) **Exhibit 1** (Well Information) illustrates that the well tested and is capable of producing hydrocarbons from the San Andres.
  - b) **Exhibit 2** (San Andres Net Pay) illustrates that sufficient reservoir is present to contain and produce commercial amounts of hydrocarbons.
  - c) Even though the location is unorthodox, the entire drainage area is contained within the Hawk B-1 lease.
  - d) Volumetrics and reserves for the Hawk B-1 #39 are:

OPER	WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Apache	Hawk B-1 #36	09-P	40	4	382

## 4. Notice

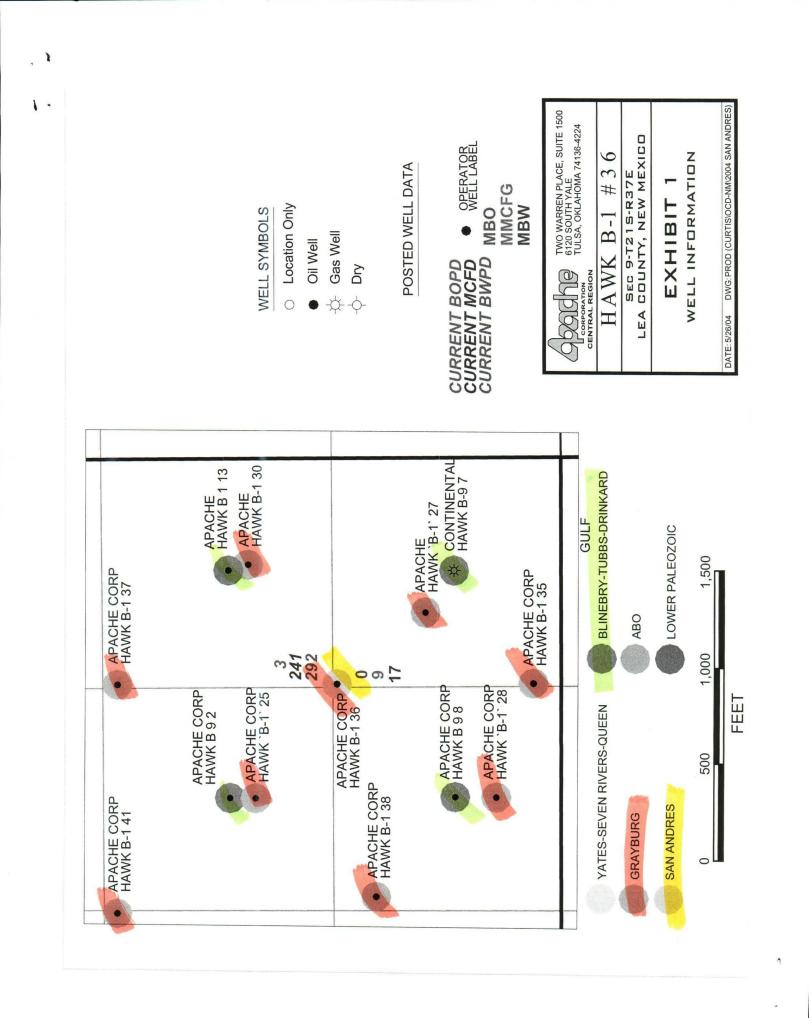
a. The Hawk Federal Lease covers, among other acreage, the SE<sup>1</sup>/<sub>4</sub> §9. Interest ownership in the San Andres Formation is common in the lease.

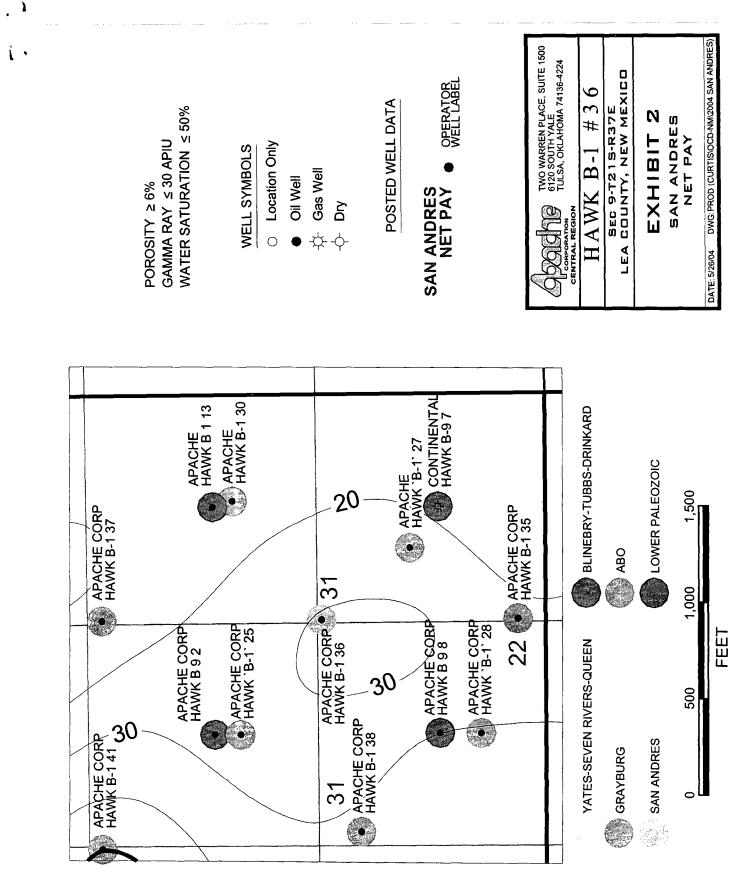


Therefore, there are no adversely affected parties and no one was notified of the application.

14

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.





e,

	Visto A 1541 Mirage	2. M. I arm E (b). Ud (S)	• 4 * <sup>75</sup> 101 . D43+	APACHE OPER.)	o Xeric - L Starry - Lerry - L
state 20 forman An (G. Hill En Dollas McLasland(S)	HOP HPP V-15 Jzz Stote "Perer st"	Hendriz Oekolo-SL 33 U.S. Form & Reh. Ud.LS	14 113 U.S. # 77 -	Worren Unit" Con. U.S. MI	St. 1107493 (1967 1107493 1107461 2 1964-17 19724 1964-17 1964-27-27 1964-17 1964-27-27 1964-17 1964-27-27 1964-17 1964-27-27 1964-17 1963 1964-17 1965 1964-17 1965 1964-17 1965 1965-1965 1965-1965 1965-1965 196
All DXY Allow Allow All All All All All All All All All Al	St All Hendrix Exxon VI		112 140 Burlington Res. 100 100 100 100 100 100 100 100 100 10	Sogo Elliotti (kirby Irel)	Bint, 15 Dat. 160342, 13 Rocky Mountain Res. tai 9:25-2000 8:26-2000 7:25-2000 1 4:2-2000 7:10-2000 10-1 99
	1 Hendrigt Komen Gondel Hendrig J.H. US H: Toylor Glam	Apoche ite: 100 111 101 101 100 10	(5) 13 127 (00) 12 10-7/125 (00)	ran FS3 - Contrast ran FS	Marsholl Marcacai
Thin Ass The in Standard	Siancy (Can aco) (Hill Grave, (Can aco) (Hill Grave, (Can aco) (Hill 2017 Ta C Myraed Myraed Con 1 (Common) (100)	Ma 000 + 0000 + 000 + 000 + 000 + 000 + 000 + 000 + 000 + 000 + 000 + 00		NO Eliett I Frank Ya M.F.	Porker etol
the 151 ber 500 Content of the 150 Content of the 150 Content of the 1500 Content of t	SI T Apoche umasi	100 (Tripit, wei 700, 150) 300		Fed. a L US Si Liber bi M. Mc Neill eral 10 638 Apache Esson	Amerodo, 7 A.R.Ca, M. Elliott Oil Z • (Fullerian Oil, stal)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- J Mi Form Cach (H/S) I'd Son Ostral S Triple Terrors (Dan) (D-e) To the day	302 1/4/07 / 4/4/17 /	310 310 11 116 378- 1 7	CLASS 1 1000 Linux Constant CLASS 1 230 Linux Constant Constant CLASS 1 2000 CLASS	. dessts
2 Russian Apache, ctai marka nga Marka nga 1 Anara 198 1 Anara 198	Country 1 20161	L. Sur- 403 / 316 13 (16) (16) t. Sur- 403 / 316 13 40 stor 200 / 10 / 10 / 10 / 10 / 10 / 10 / 10	Apochecter Apochectic del 7 012255 032056 Lactor 1 14 15	(buil) 3 Agente, the form for t	G.H.   Yates Pacatai
Contraction (Mar 12C Contraction of Apoche start	or 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Control and the start of the st	Lus Triple 1 5	Apache Apache St. Apache	HEP I U.S. MI 25 00 38473 Sterisi Elliottind, etai I Yatzs I Mar. Shell IPat, atal H.B.
M (3) (m) Allow (Allow) (Allow		Apoche C(P) + 0 and Unit SIS-SE Ser 10 and - 2) + 0 and Unit SIS-SE Ser 10 and - 2) + 0 and Ser Ser 10 and Ser 10 and Ser Ser 10 and - 2) + 0 and Ser Ser 10 and Ser 10 10 and Se	J = Nalan	Call Cheshin Apoche Apoche Apoche 2 Angle State Call Chesher W.F. Meneill, Etol(S)	HEP 5.1-2004 05601 197239 17525 U.S. MI W.F.MCNEIII, etal(5)
11 1 2 0.001 (Drimm TCXOCO 1985) Langes Jack Marren 3 (Canadillir ock 1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Mon		Apache Apache Moronical, mil)	Apache seter Gulf-Burnin 151 - Seese - Seter AB Burnin 151 - Apache, etal	Not. Res. Al uller
Suit 1000 Autor termination (a) (a) (a) (a) Autor termination (a) (a) (a) Autor (a) (a) (a) (a) (a) Autor (a)		Cash Store 5 101 500 100 100 100 100 100 100 100 1	Cre Oren Indiana Cal Sm 11	20 Apachs, stor 3 6:1:45 (Rowph) 13 6:1:45 (Rowph) 13 0008 To 3946 13 00/407.55 24 (wa) 4 (J.S. )	Ale Bunin Galveicade 9-5-85
Hiltian Hes (22035) Hiltian Hes (22035) Hiltian Hes (22035) Harry Journal Les Nor (2016) Harry Journal Les Nor (2016) Harry Line Nor (2016)	1070	Topi Taling Jan	(Flog-Redform)	Mork Dwens, etcl Apoche, etcl A 5 032056 (Wa) (Wai U.S. Lockhart, Fee,	Kuip Ener.   (imp.Amer.) HBP A+ Mark Owens, Es. Wayne Stephens, etai
asiona isi 1 US Minora Deck Erilsi	1 JILIE IPIN	1 PTB/ Prove Derk En151 Charrie Berris (3)	Chorke Bertis (5)   4 1	Locahort-Fee.	and a star and star
Res June 6 Ester Di Componi E mana Irakon Im 27	+ ac idance to about the	1 (	912 1 316 156 1 912 1 316 156 1 1 627 328 0 001 1	Arch Pet. Apoche, etal	Elliant Lawr Expl. Arman Horring
Res was Eller Dil Composite resca. Leakon In Dir Start Start Itan Res. I annut a Tiro B I S I A A A A A A A A A A A A A A A A A	fank B-	1 work	005102 912 1 294 916 11 912 1 294 916 12 1 294 916 10 1 912 1 22 8 10 1 914 916 10 1 914 917 10 1 915 917 10 1915	Arch Pet: Arch Pet:	Ellipert Large, Line, Murghe MS, B, D, -02 Stor, - Ann. Expl. Solor, - Ann. Expl. Dorse Hangler barry, - Janson 06 16508: - Janon Korna Weyne Steparen, c'el Costa COSARS: - 19 COSARS: - 19 COSARS: - 19 COSARS: - 19 COSARS: - 18 8. - 22 - 2
Res week Eller Dil Composite Hennes Leakon In Due (255) ton Res. Lange (255) in Guest (255)	fank B-	22 • 707 • 7 Anorthe Anorthe State (WO) Surf • 7 Anorthe Anorthe State (WO) • 7 Anorthe State (WO)	006104 912   194 916 1912   194 916 1912   194 916 1912   192   194 916 1913   192   192   194 916 1913   192   192   194 91 1914   194 91   194 91   194 91 1914   194 91   195 91 1914   193 91   195 91 1914   191 91 1914   191 91 1914   191 91 1915   19	Arch Pet: Apoche, etal 37 ECEner William sold William sold 4 mer rus (way) U.S.MJ. U.S.MJ.	Ellipert Lares, lares, Margin Mag B D - 42 Start Sta
Res week Eller Dil Composition and the second states and the secon	Landon and the firme		000100 012 1 20 01001 1 212 2 20 000 1 212 2	Arch Pet. Arch Pet.	Ellipert Lares, litre, Murghe MS B, J
Res week Eller Dil Comonil andre Leukan Res Land State Dil Comonil andre Leukan Dood (List) 10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (	Landra and a land a lan	L ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	00010 012   24 016 172   228   24 016 172   228   24 172   228   24 172   228   24 172   228   24 172   25 172   25 175   25 1	Arch Pet Arch Pet JTEC En- The Server Arch Pet JTEC En- March Pet JTEC En- March Pet JTEC En- March Pet JTEC En- March Pet JTEC Base JUN Devron JIN Overas GSI JUN Devron JIN Overas GSI JUN Devron JIN Overas GSI JUN Devron JISE Consoleration JISE Consoleration JISE JUN Devron JISE Consoleration JISE JUN Devron JISE Consoleration JISE JUN Devron JISE JUN Devron JUN	Ellipert Lares pr. Line, Margine M. B. J
Res week Eller Dil Comonil andre Leditor In Data Res Land Comonil and Comonil and Comonil and Comonil In Data In Dat	Landon and Line and L	Ling the start of	000100 912 1 914 916 1 100 1 912 1 924 916 1 100 1 912 1 924 916 1 100 1 912 1 924 916 1 101 1 912 1 924 914 914 917 101 1 912 1 912 914 914 917 101 1 913 91 914 914 917 101 1 913 91 914 914 917 101 1 913 914 914 914 914 914 914 101 1 913 914 914 914 914 914 914 914 914 914 914	Arch Pet I a Constant and Cons	Elliont Lareszi. Line Margin B.D 62 Scor - 7 Am. Expl. Jan Expl. Messiler Jan Color Messiler Jan C
Res were Eller Dil Concort & menore Lecture Res were Eller Dil Concort & menore Lecture (1) Date (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Landon Carlo and There are a series of the s	Automatical and a second and a	00010 012   200	Arch Pet I and I	Ellipettur Expl. Area. Murght B.D 42 Start Area Capil. Area. B.D 42 Start Area. B.D 42 D. Instance Capil. D. Instance Capil. B.D 42 D. Instance Capil. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. D. Instance Capil.
Res June Elser Dil Comoni L manoe Leditor Res June 2015 Daniel Comoni L manoe Leditor (1970) 1070 State State 1070 State State 1070 State State 1070 State State 1070 State State 1070 State	Landon and a second a	Line of the second seco	oachd 312 342 344 344   1 1 1 1 1 1 1   1 <	Arch Pet TTEC For The Second	Ellipset Lares, Itres, Margine Magnetic Name   Scient Janes, Lares, Itres, Margine Magnet, Janes, Janes
Res June Elser Dil Comoni E mance Leckon In Dir Jan State S	Landon Carlon Carlos Ca	Ling the set of the se	Dual to a second and a second	Arch Pet TTEC For The Second	Ellipettur Expl. Area. Murght B.D 42 Start Area Capil. Area. B.D 42 Start Area. B.D 42 D. Instance Capil. D. Instance Capil. B.D 42 D. Instance Capil. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. COORed. 19 U.S. Alloc. D. Instance Capil. D. Instance Capil.
Res June Elser Dil Comoni L mance Leditor Res June Elser Dil Comoni L mance Leditor (1972) Como Les Lange And Como Les Como Les Como (1972) Como Les Como Les Como Les Como (1972) Como Les Como Les Como Les Como Como Les Como Les Como Les Como Addition Como Les Como Les Como Addition Como Les Como Les Como Como Les Les Como Como Como Les Como Como Como Les Como Como Como Les Como Com	Landon and a second and a secon	Line of the set of the	0 achd B12 Bac Bit   1 B12 Bac Bit   1 Tay Bac Bit Bac Bit   1 Bac Bit Bac Bit </td <td>Arch Pet TTEC For an and a second se</td> <td>Silvert and start and star</td>	Arch Pet TTEC For an and a second se	Silvert and start and star
Res June Elser Dil Comoni L manoe Leven Res June Elser Dil Comoni L manoe Leven Leven Data Leven Da	Landow and the second	Line of the set of the	0 achd B12 Bac Bit   1 B12 Bac Bit   1 Tay Bac Bit Bac Bit   1 Bac Bit Bac Bit </td <td>Arch Pet TTEC For an and a second se</td> <td>Silvert and start and star</td>	Arch Pet TTEC For an and a second se	Silvert and start and star
Res June Elser Dil Comoni L mance Letter Res June Elser Dil Comoni L mance Letter Data June June June June June June June June	Landon and a second and a secon	Automa and a server and a server and a server and a server a serve	0 achd B12 Bac Bit   1 B12 Bac Bit   1 Tay Bac Bit Bac Bit   1 Bac Bit Bac Bit </td <td>Arch Pet Arch Pet TECC For Units TTEC For Units TTEC For Units TTEC For Units TTEC For Units TTEC For Units Tech Pet Tech Pet</td> <td>Silvert and start and star</td>	Arch Pet Arch Pet TECC For Units TTEC For Units TTEC For Units TTEC For Units TTEC For Units TTEC For Units Tech Pet Tech Pet	Silvert and start and star