

2-21-05 DATE IN	3-14-05 SUSPENSE	ENGINEER <i>MES</i>	LOGGED IN <i>ms</i>	TYPE <i>NSL</i>	APP NO. <i>PMESD-508740845</i>
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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



30-025-36531
0-9-21-37

ADMINISTRATIVE APPLICATION CHECKLIST

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 2/18/05
Title Date

jamesbruc@aol.com
e-mail Address

RECEIVED
FEB 21 2005
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

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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-4959(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. 38
<u>Location:</u>	1080 feet FSL & 2551 feet FEL
<u>Well Units:</u>	SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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-4959-SD.

The well is in the East Hare-San Andres (Oil) Pool,¹ which is developed on statewide rules, with 40 acre spacing and wells to be located no closer than 330 feet to a quarter-quarter section line.

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

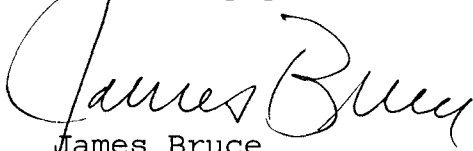
¹ See Division Order No. R-12190.

Applicant has an ongoing program to drill infill Grayburg (and other) wells in this township, and the San Andres, which lies immediately below the Grayburg, can be accessed at a low cost. In some cases it may not be economically feasible to drill a stand alone San Andres well, and completing the wells in both zones makes the wells more economical and extends their lives, thus preventing waste and protecting correlative rights.

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

A handwritten signature in cursive script that reads "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 – 1080' FSL & 2551' 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 proposed **Hawk B-1 #38** well. The total depth 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-4959 was granted 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 proposed **Hawk B-1 #38** unorthodox San Andres location of 1080' from south line and 2551' 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) Volumetrics and reserves for the Hawk B-1 #38 are:

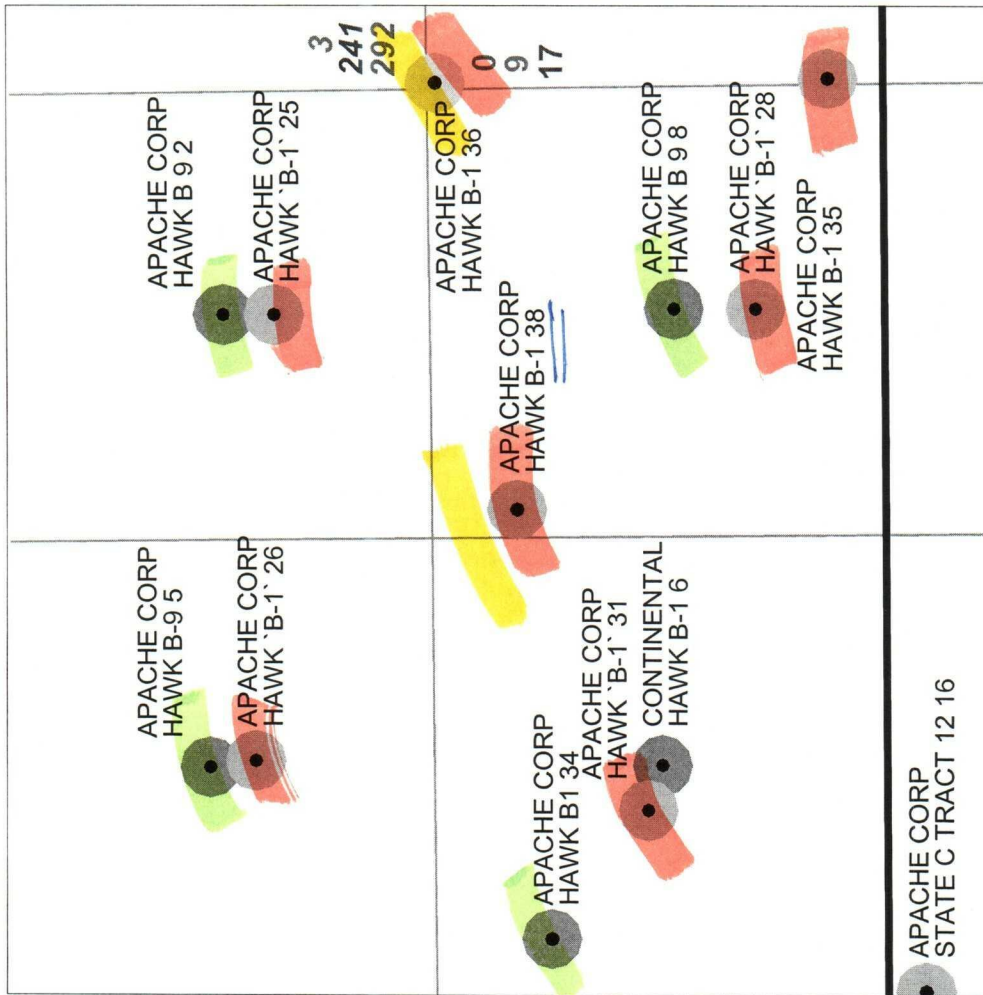
OPER	WELL	LOC	AREA A	EUR MBO	EUR MMCFG
Apache	Hawk B-1 #38	08-O	40	12	618

4. Notice

- a. The Hawk Federal Lease covers, among other acreage, the SW¼ §9 and SE¼ §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
- Oil Well
- ☀ Gas Well
- ☉ Dry

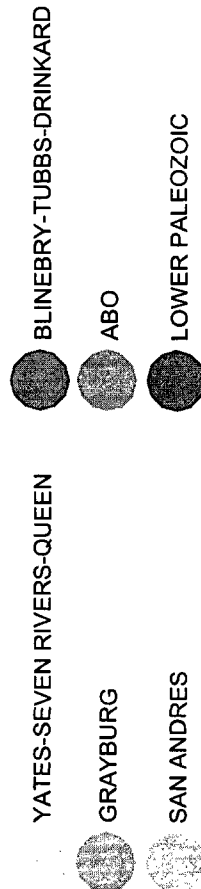
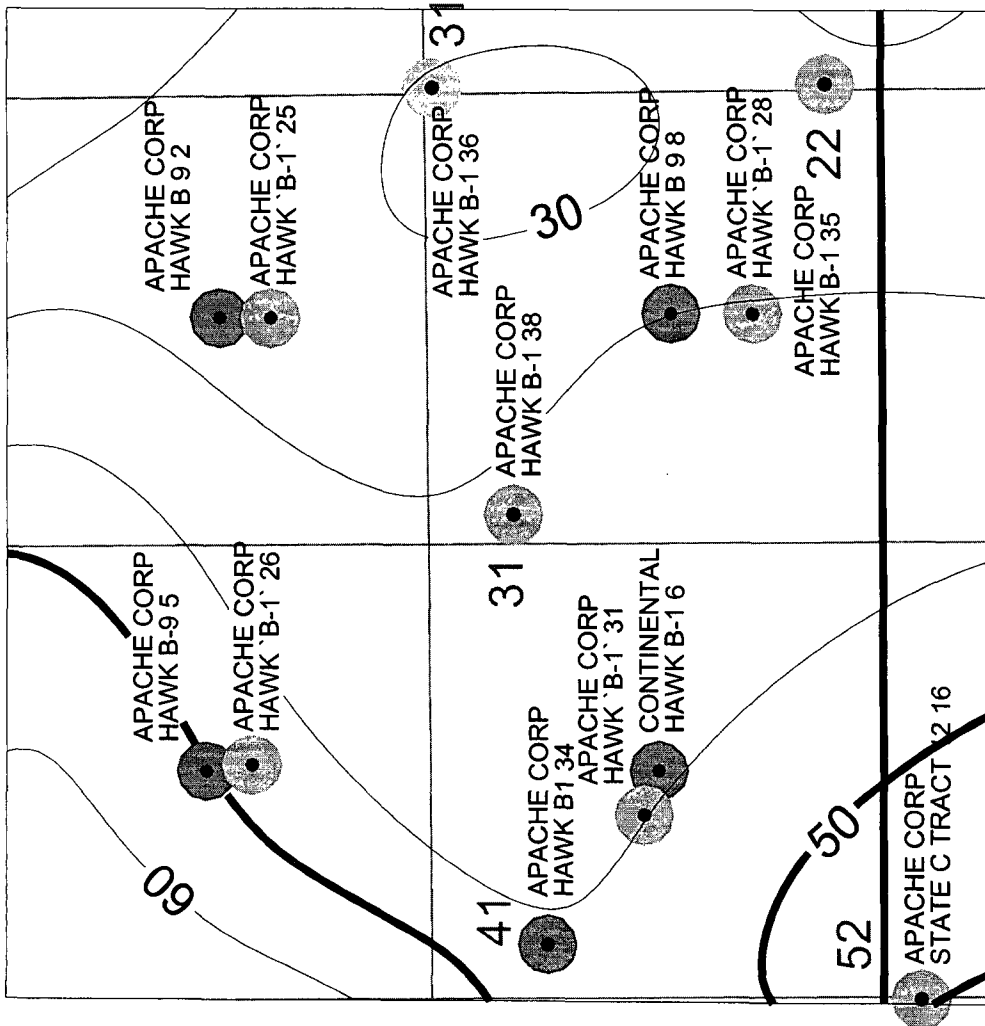
POSTED WELL DATA

CURRENT BOPD
 CURRENT MCFFD
 CURRENT BWPD

● OPERATOR WELL LABEL

MBO
 MMCFG
 MBW

APACHE CORPORATION CENTRAL REGION	TWO WARREN PLACE, SUITE 1500 6120 SOUTH YALE TULSA, OKLAHOMA 74136-4224
HAWK B-1 # 3 8	
SEC 9-T21 S-R37E LEA COUNTY, NEW MEXICO	
EXHIBIT 1 WELL INFORMATION	
DATE: 5/26/04 DWG: PROD (CURTIS/OCD-NM2004 SAN ANDRES)	



POROSITY $\geq 6\%$
 GAMMA RAY ≤ 30 APIU
 WATER SATURATION $\leq 50\%$

WELL SYMBOLS

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

POSTED WELL DATA

SAN ANDRES
NET PAY ● **OPERATOR**
WELL LABEL

 TWO WARREN PLACE, SUITE 1500 6120 SOUTH YALE TULSA, OKLAHOMA 74136-4224 CENTRAL REGION	
HAWK B-1 # 38	
SEC 9-T21S-R37E LEA COUNTY, NEW MEXICO	
EXHIBIT 2 SAN ANDRES NET PAY	
DATE: 5/26/04	DWG: PROD (CURTIS)CD-NM2004 SAN ANDRES

The map displays a complex network of land ownership and leases in Apache County, Arizona. A large, irregularly shaped area in the center is highlighted in yellow and labeled "Hawk B-1 Lease". This area is surrounded by numerous other land parcels, many of which are labeled with names or numbers. Other prominent labels include "CENTRAL DRINKARD UNIT", "PADOCK (SAN ANGELO) UNIT", and "J.H. HENDRIX (OPER.)". The map also shows various oil and gas fields, such as "Apache", "Chevron", "Exxon", and "Marathon". The map is oriented with North at the top.