



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor

March 31, 2004

**Joanna Prukop**  
Cabinet Secretary  
Acting Director  
Oil Conservation Division

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

*Administrative Order NSL-5032 (SD)*

Dear Mr. Bruce:

Reference is made to the following: (i) your application (*administrative application reference No. pMES0-408557421*) dated February 6, 2004 filed on behalf of the operator, Apache Corporation ("Apache"); (ii) your e-mail on Monday morning, February 23, 2004; (iii) our telephone conversation late Monday afternoon, February 23, 2004; (iv) our e-mail correspondence on Wednesday, February 25, 2004; (v) your e-mail on Tuesday morning March 23, 2004 checking on the status of Apache's remaining applications in this area; (vi) my e-mail on Friday afternoon, March 26, 2004 requesting additional detailed information concerning the fee lease involved in this matter; (vii) your reply by letter, with attachments, on March 30, 2004; (viii) our e-mail correspondence on Tuesday afternoon, March 30, 2004; and (ix) the Division's records in Santa Fe: all concerning Apache Corporation's request for an unorthodox "infill" oil well location within an existing standard 40-acre oil spacing and proration unit comprising the NE/4 SE/4 (Unit I) of Section 9, Township 21 South, Range 37 East, NMPM, Penrose Skelly (Grayburg) Pool (50350), Lea County, New Mexico.

**The Division Finds That:**

(1) All of Section 9 is within the Penrose Skelly (Grayburg) Pool; an oil pool governed under Division Rule 104.B (1), which provides for 40-acre oil spacing and proration units and requires wells be located no closer than 330 feet to the outer boundary of such unit.

(2) The 958.25-acre area in Lea County, New Mexico comprising the SW/4 NE/4 and NW/4 SW/4 of Section 13, Township 20 South, Range 37 East, NMPM; Lot 1 of Section 30, Township 20 South, Range 38 East, NMPM; and Lots 3 and 6 of Section 4, the NE/4 SE/4 and S/2 SE/4 of Section 6; the E/2 SW/4 and SE/4 of Section 8; and the E/2 NW/4 and S/2 of Section 9, all in Township 21 South, Range 37 East, NMPM, is a single federal lease (Hawk "B-1") issued by the U. S. Bureau of Land Management (U. S. government lease No. NM-90161) with common ownership in which: (i) Apache, Chevron U.S.A., Inc. ("Chevron"), and BP America Production Company ("BP") each own undivided operating rights; and (ii) Apache is the leasehold operator.

(3) This 40-acre Grayburg unit is currently dedicated to Apache's Hawk "B-1" Well No. 30 (API No. 30-025-35881) located at a standard oil well location 1830 feet from the South line and 620 feet from the East line of Section 9.

(4) Apache now seeks to drill its Hawk "B-1" Well No. 37 at an unorthodox infill oil well location within this 40-acre Grayburg unit 2590 feet from the South line and 1310 feet from the East line of Section 9.

(5) The 320-acre area in Lea County, New Mexico comprising the SE/4 SW/4, NE/4 SE/4, and S/2 SE/4 of Irregular Section 4, and the NE/4 of Section 9, all in Township 21 South, Range 37 East, NMPM, is a single fee lease (Southland Royalty "A" fee lease) with common ownership in which Apache is the single working interest owner and is the designated leasehold operator.

(6) The two-affected standard 40-acre Grayburg oil spacing and proration units to the north that Apache's proposed Hawk "B-1" Well No. 37 is encroaching are:

(a) the SW/4 NE/4 (Unit G) of Section 9, which is currently dedicated to Apache's Southland Royalty "A" Well No. 10 (API No. 30-025-35514), located at a standard oil well location 1830 feet from the North line and 1980 feet from the East line of Section 9; and

(b) the SE/4 NE/4 (Unit H) of Section 9, which is currently dedicated to Apache's Southland Royalty "A" Well No. 12 (API No. 30-025-35767), located at a standard oil well location 1830 feet from the North line and 600 feet from the East line of Section 9.

(7) This request is based on geologic and engineering reasons in that this location is approximately equidistance to other offsetting Penrose Skelly (Grayburg) oil producers within the immediate area.

(8) Apache, BP, Chevron, and the U. S. Bureau of Land Management have entered into a "cooperative lease/well agreement" providing for the allocation of proceeds of Penrose Skelly (Grayburg) oil production from Apache's proposed Hawk "B-1" Well No. 37 in the following manner:

(a) 64.32% to be attributed to the subject Hawk "B-1" federal lease (U. S. government lease No. NM-90161); and

(b) 35.68% attributed to the offsetting Southland Royalty "A" fee lease.

(9) This allocation formula for the proceeds from Apache's proposed Hawk "B-1" Well No. 37 serves to benefit all mineral interests (both cost bearing and non-cost bearing interests), within the Penrose Skelly (Grayburg) Pool to be impacted by this well's drainage.

(10) Approval of this application is in the best interest of conservation, will serve to prevent waste, protects correlative rights, exhibits sound engineering practices, and allows for the recovery of additional reserves that might not otherwise be produced.

**It Is Therefore Ordered That:**

(1) Pursuant to Division Rule 104.F (2), of the New Mexico Oil Conservation Division's ("Division") Rules and Regulations, the administrative application of Apache Corporation (Apache") (*administrative application reference No. pMES0-408557421*) for its proposed Hawk "B-1" Well No. 37 to be drilled at an unorthodox infill oil well location 2590 feet from the South line and 1310 feet from the East line (Unit I) of Section 9, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, and completed in the Penrose Skelly (Grayburg) Pool (50350), is hereby approved.

(2) For the Division's production reporting, prorationing, and well spacing purposes, Grayburg oil production from the above-described Hawk "B-1" Well No. 37 is to be simultaneously dedicated, with Apache's existing Apache's Hawk "B-1" Well No. 30 (API No. 30-025-35881) located at a standard oil well location 1830 feet from the South line and 620 feet from the East line of Section 9, to the NE/4 SE/4 (Unit I) of Section 9, being a standard 40-acre oil spacing and proration unit in the Penrose Skelly (Grayburg) Pool.

(3) The distribution of proceeds from Penrose Skelly (Grayburg) oil production from Apache's proposed Hawk "B-1" Well No. 41 are to be allocated in the following manner:

- (a) 64.32% to be attributed to the subject Hawk "B-1" federal lease (U. S. government lease No. NM-90161) located in Section 9; and
- (b) 35.68% attributed to the offsetting Southland Royalty "A" fee lease also located in Section 9.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



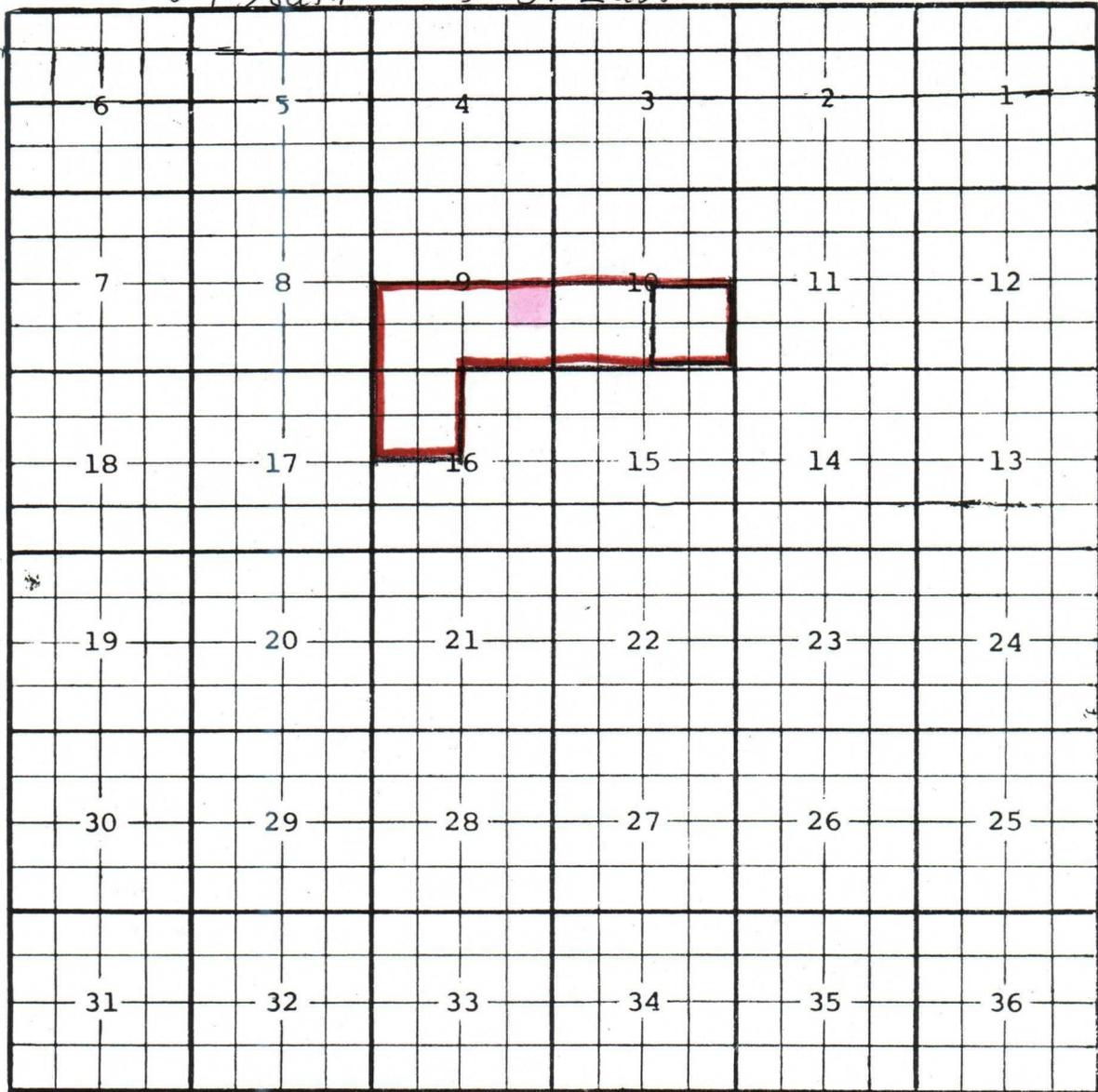
MICHAEL E. STOGNER  
Engineer/Hearing Officer

MS/mes

cc: New Mexico Oil Conservation Division - Hobbs  
U. S. Bureau of Land Management - Roswell  
U. S. Bureau of Land Management - Carlsbad

County Lea Pool East Hare-San Andres

TOWNSHIP 21 South Range 37 East NMPM



Description: SE 1/4 Sec. 10 (R-10776, 2-28-97)

Ext: SW 1/4 Sec. 9, SW 1/4 Sec. 10, NW 1/4 Sec. 16 (R-12190, 8-12-94)

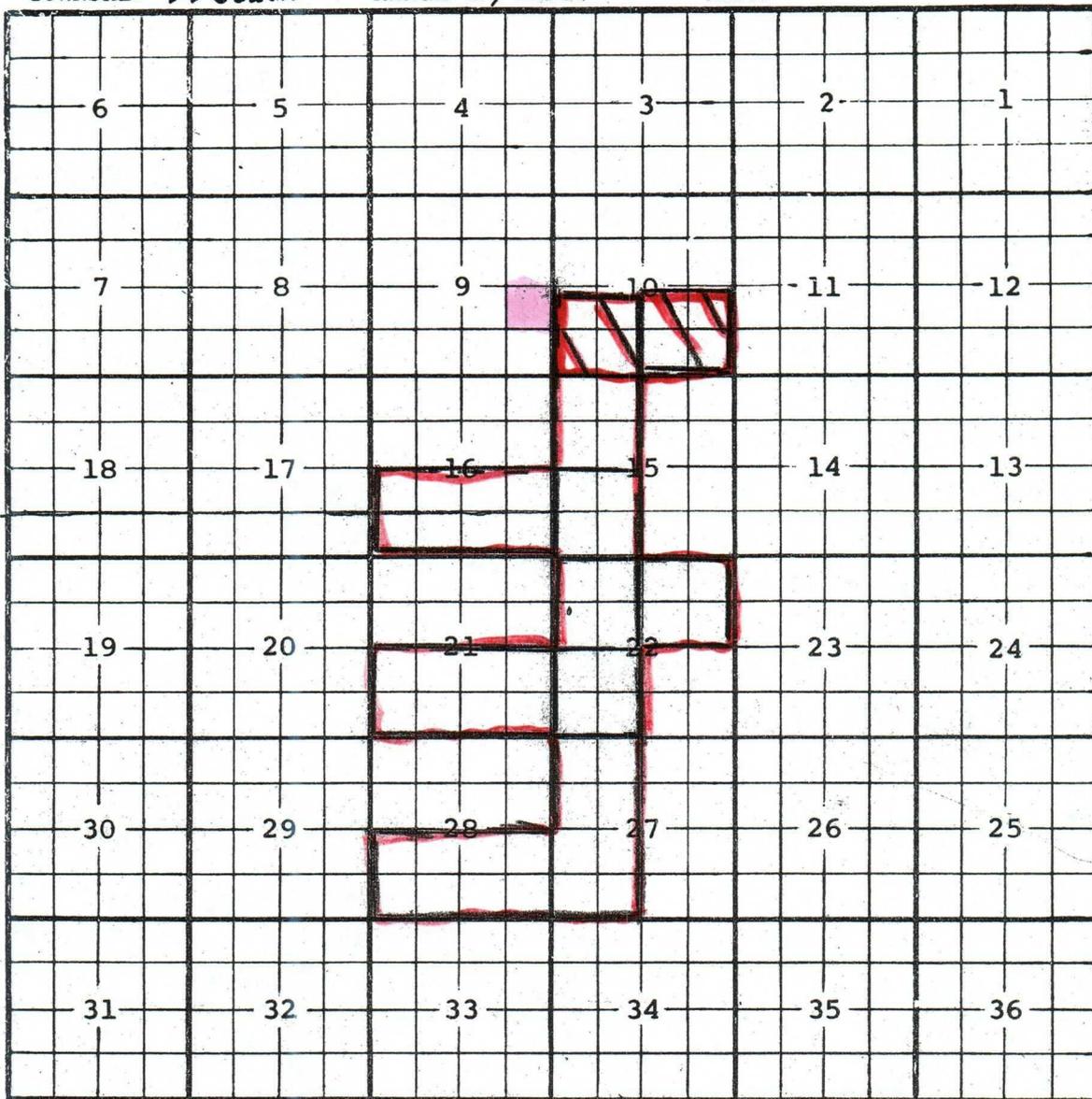
COUNTY *Lea*

POOL *Hare - San Andres Gas*

TOWNSHIP *21 South*

RANGE *37 East*

NMPM



Description: *SW*  $\frac{1}{4}$  Sec. 22 (R-4423, 11-1-71)

Ext:  $\frac{w}{2}$  Sec 27,  $\frac{S}{2}$  Sec 28 (R-4809, 6-18-74)

Ext:  $\frac{S}{2}$  Sec 21 (R-6698, 6-2-81) EXT: NW  $\frac{1}{4}$  sec. 22 (R-8946, 7-1-89)

EXT: SW  $\frac{1}{4}$  sec 15 (R-9741, 9-1-89) EXT:  $\frac{SW}{4}$  Sec. 10,  $\frac{NW}{4}$  Sec. 15 (R-10091, 3-28-94)

Ext:  $\frac{SE}{4}$  Sec. 10,  $\frac{NE}{4}$  Sec. 22 (R-10588, 4-26-96)

Ext:  $\frac{S}{2}$  Sec. 16 (R-11116, 1-7-99) Delete  $\frac{S}{2}$  Sec. 10 (R-12190, 8-12-04)

**STATE OF NEW MEXICO  
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:**

**CASE NO. 13256  
ORDER NO. R-12190**

**APPLICATION OF APACHE CORPORATION FOR CONTRACTION OF THE  
HARE-SAN ANDRES GAS POOL, EXPANSION OF THE EAST HARE-SAN  
ANDRES POOL, AND SPECIAL POOL RULES FOR THE EAST HARE-SAN  
ANDRES POOL, LEA COUNTY, NEW MEXICO.**

**ORDER OF THE DIVISION**

**BY THE DIVISION:**

This case came on for hearing at 8:15 a.m. on April 29, 2004, at Santa Fe, New Mexico, before Examiner William V. Jones.

NOW, on this 12<sup>th</sup> day of August, 2004, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

**FINDS THAT:**

(1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

(2) Apache Corporation ("applicant"), seeks an order:

(a) Contracting the horizontal boundaries of the Hare-San Andres Gas Pool (78080) by deleting the following acreage;

Township 21 South, Range 37 East, NMPM  
Section 10: S/2

(b) Expanding the horizontal boundaries of the East Hare-San Andres Pool (96601) by adding thereto the following acreage; and

Township 21 South, Range 37 East, NMPM

Section 9: S/2  
Section 10: SW/4  
Section 16: NW/4

(c) Creating Special Pool Rules for the East Hare-San Andres Pool, providing for; (i) a gas-oil ratio of 5000 cubic feet of gas for each barrel of oil produced, and (ii) all other rules to comply with statewide rules.

(3) The Hare-San Andres Gas Pool was created by Division order No. R-4423 in Case No. 4848, issued on November 1, 1972, and currently covers the following acreage:

Township 21 South, Range 37 East, NMPM

Section 10: S/2  
Section 15: W/2  
Section 21: S/2  
Section 22: NE/4 and W/2  
Section 27: W/2  
Section 28: S/2

The Hare-San Andres Gas Pool was discovered by the Shell Oil Company Turner Well No. 16, located in Unit M of Section 22, Township 21 South, Range 37 East, NMPM. It was completed in the San Andres formation on June 2, 1972, with the top perforation at 4004 feet. The pool has no special pool rules and is therefore being developed on statewide rules with 160-acre gas spacing units and only one well allowed per unit.

(4) The East Hare-San Andres Pool was created by Division order No. R-10776 in Case No. 11737 issued on February 28, 1997, and currently covers the following acreage:

Township 21 South, Range 37 East, NMPM

Section 10: SE/4

The East Hare-San Andres Pool was discovered by the Exxon Corporation New Mexico "PO" State Well No. 1 located in Unit O of Section 10, Township 21 South, Range 37 East, NMPM. It was completed in the San Andres formation on October 13, 1996, with the top perforation at 4,022 feet. The pool has no special pool rules and is therefore being developed on statewide rules with 40-acre oil proration units, 40-acre depth bracket oil discovery allowable, and a 2,000:1 gas-oil ratio.

(5) Notice was provided to operators within the East Hare-San Andres Pool and within one mile surrounding the pool. No one appeared at the hearing or otherwise opposed this application.

(6) Exxon Mobil Corporation ("ExxonMobil") operates a San Andres gas well located within the SW/4 of Section 10 and within the current boundaries of the Hare-San Andres Gas Pool. The applicant provided testimony that the entire S/2 of Section 10 is a single State of New Mexico lease with identical ownership and Exxon would therefore not be affected by switching the SW/4 of Section 10 from the Hare-San Andres Gas Pool to the East Hare-San Andres Pool. Division records indicate that ExxonMobil's well has not in the past produced enough gas, on the average, to be restricted in the future by the applicant's proposed 5,000:1 gas-oil ratio limitation.

(7) The applicant provided geological and engineering testimony as follows:

(a) The productive portion of the San Andres reservoir in this area does not behave in a conventional manner, with gas over oil, and oil over water. Some wells will produce primarily gas even though they are lower in structure than offsetting oil producers.

(b) The San Andres reservoir provides water supply wells for the deeper Drinkard formation waterflood in this area. Some of these water supply wells actually flow gas at the same time as water is being pumped and are classified as gas wells.

(c) Oil wells in this area producing from the Grayburg formation, which is stratigraphically higher than the San Andres, are spaced on 40-acres. If this application is approved, these existing Grayburg wells can be deepened without obtaining Division approval for rule exceptions, the San Andres formation can be developed, and the wells possibly downhole commingled.

(d) The producing lenses in the San Andres formation are at various stages of pressure depletion. Original reservoir pressure was approximately 1,700-psi and the pressure in some wells is still above the bubble point.

(e) Ultimate primary oil and gas production from this reservoir will not be decreased as a result of allowing a 5,000:1 or higher producing gas-oil ratio. The applied for 5,000:1 gas-oil ratio limit is consistent with the special pool rules existing on other San Andres oil pools in this area.

(f) To aid in determining the limits of the East Hare-San Andres Pool as applied for herein, the applicant has drilled three delineation wells, each in the center of a possible 160-acre San Andres gas spacing unit. One well is in the NW/4 of Section 16, one is in the SW/4 of Section 9, and one is in the SE/4 of Section 9. Each of these wells is an infill location Grayburg well as well as standard location gas wells. If these had tested as gas wells in the San Andres, they would have been the only San Andres wells allowed within each of these 160-acre units.

(8) Implementation of the proposed gas pool contraction, oil pool expansion, and 5,000:1 gas-oil ratio limit for the oil pool, will allow the operators of wells completed in the San Andres formation in this area the opportunity to recover additional hydrocarbons, prevent waste, and will protect correlative rights.

**IT IS THEREFORE ORDERED THAT:**

(1) The application of Apache Corporation for the following three items is hereby approved:

(a) The following acreage is deleted from the boundaries of the Hare-San Andres Gas Pool (78080):

Township 21 South, Range 37 East, NMPM  
Section 10: S/2

(b) The following acreage is added to the boundaries of the East Hare-San Andres Pool (96601):

Township 21 South, Range 37 East, NMPM

Section 9: S/2  
Section 10: SW/4  
Section 16: NW/4

(c) The "Special Pool Rules for the East Hare-San Andres Pool," are hereby established and shall read in their entirety as follows:

SPECIAL POOL RULES  
FOR THE  
EAST HARE-SAN ANDRES POOL

RULE 1. Each well completed in or recompleted in the East Hare-San Andres Pool, or in the San Andres formation within one mile thereof and not nearer to or within the limits of another designated San Andres pool, shall be spaced, drilled, operated, and produced in accordance with the special rules hereinafter set forth.

RULE 2. The limiting gas-oil ratio shall be 5,000 cubic feet of gas per barrel of oil.

RULE 3. Statewide rules shall govern this pool except as stated in RULE 2 above.

(2) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

MARK E. FESMIRE, P.E.  
Director

# New Mexico Oil Conservation Division, District I

1625 N. French Drive

Hobbs, NM 88240

Form 3160-4  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-1037

Expires: November 30, 2000

1a. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. <input type="checkbox"/> Other		7. Unit or CA Agreement Name and No.							
2. Name of Operator: <b>Apache Corporation</b>		8. Lease Name and Well No. <b>Hawk B-1 #37</b>							
3. Address: <b>6120 S. Yale, Suite 1500, Tulsa, OK 74136</b>		9. API Well No. <b>30-025-36686 0051</b>							
3a. Phone No. (include area code): <b>918-491-4957</b>		10. Field and Pool, or Exploratory: <b>Penrose Skelly, Grayburg</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements): At surface: <b>2590' FSL, 1310' FEL, Unit I (NE/4, SE/4)</b>  At top prod. interval reported below:  At total depth:		11. Sec., T., R., M., or Block and Survey or Area: <b>Sec. 9, T-21S, R37E</b>							
14. Date Spudded: <b>5/29/2004</b>	15. Date T.D. Reached: <b>6/3/2004</b>	16. Date Completed: <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Produce <b>06/15/04</b>	17. Elevations (DF, RKB, RT, GL): <b>3474' GL</b>						
18. Total Depth: MD <b>4350'</b> TVD	19. Plug Back T.D.: MD <b>4302'</b> TVD	20. Depth Bridge Plug Set: MD TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each): <b>CSL, DSN-SDL</b>		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4	8-5/8	24#	0	408		325	78	Ci to surf	
7-7/8	5-1/2	17#	110	4350		925	329	Ci to surf	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8	4072								
25. Producing Intervals				26. Perforation Record					
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf Status	
Grayburg		3815	3994	3815-3994		4"	21	Producing	
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
3815-3994'		Acidize w/ 3000 gals 15% NEFE							
3815-3994'		Frac w/ 52,458 gals gel & 100,500# 20/40 sand							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/15/04	7/18/2004	24	→	42	76	63	38.8		Pumping
Choke Size	Tubing Pressure Flwg. SI	Casing Pressure	24 Hour Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→				1810	Producing	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tubing Pressure Flwg. SI	Casing Pressure	24 Hour Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

**ACCEPTED FOR RECORD**  
**DAVID R. GLASS**  
**AUG 3 2004**  
**DAVID R. GLASS**  
**PETROLEUM ENGINEER**

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tubing Pressure Flwg. SI	Casing Pressure	24 Hour Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tubing Pressure Flwg. SI	Casing Pressure	24 Hour Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, Etc.	Name	Top Measured Depth
				Rustler	1282
				Yates	2650
				Seven Rivers	2864
				Queen	3434
				Grayburg	3749
				San Andres	4005

32. Additional remarks (include plugging procedure):

33. Mark enclosed attachments:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice / Plugging / Cement Verification     
  Core Analysis     
  Other Deviation Rpt/NM-OCD/C-104

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Kara Coday

Title Sr. Engineering Tech

Signature Kara Coday

Date 7/23/2004

Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious fraudulent statements or representations as to any matter within its jurisdiction.

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 Resources

Form C-104  
Revised June 1, 2000

OIL 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 <b>APACHE CORPORATION 6120 S YALE, SUITE 1500 TULSA, OK 74136</b>		OGRID Number <b>000873</b>
API Number <b>30-025-36686</b>		Reason for Filing Code / Effective Date <b>NW-6/15/04</b>
Property Code <b>24427</b>	Pool Name <b>Penrose Skelly Grayburg</b>	Pool Code <b>50350</b>
Property Name <b>Hawk B-1</b>		Well Number <b>37</b>

II. Surface Location

Ul or lot no. <b>I</b>	Section <b>9</b>	Township <b>21S</b>	Range <b>37E</b>	Lot. Idn	Feet from the <b>2590</b>	North/South line <b>South</b>	Feet from the <b>1310</b>	East/West line <b>West</b>	County <b>Lea</b>
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Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
" Lsc Code <b>F</b>	" Producing Method Code <b>P</b>	" Gas Connection Date <b>6/15/2004</b>	" C-129 Permit Number	" C-129 Effective Date	" C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and Description
037480	EOTT ENERGY PIPELINE LP P O BOX 4666 HOUSTON, TX 77210-4666	0768710	O	K, Sec. 9, T21S, R37E
024650	DYNEGY MIDSTREAM SERVICES 1000 LOUISIANA, SUITE 5800 HOUSTON, TX 77002	0768730	G	K, Sec. 9, T21S, R37E

IV. Produced Water

23 POD <b>0768750</b>	24 POD ULSTR Location and Description <b>K, Sec. 9, T21S, R37E</b>
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V. Well Completion Data

25 Spud Date	26 Ready Date	27 TD	28 PBD	29 Perforations
5/29/2004	6/15/2004	4350'	4302'	3815-3994
30 Hole Size	31 Casing & Tubing Size	32 Depth Set	33 Sacks Cement	
12-1/4	8-5/8	408	325 sx / circ to surface	
7-7/8	5-1/2	4350	925 sx / circ to surface	
	2-7/8	4072		

VI. Well Test Data

34 Date New Oil <b>6/15/04</b>	35 Gas Delivery Date <b>6/15/04</b>	36 Test Date <b>7/18/2004</b>	37 Test Length <b>24</b>	38 Tbg. Pressure <b>76</b>	39 Csg. Pressure
40 Choke Size	41 Oil <b>42</b>	42 Water <b>63</b>	43 Gas	44 AOF	45 Test Method <b>Pumping</b>

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: *Kara Coday*  
Printed Name: **Kara Coday**  
Title: **Sr. Engineering Technician**  
Date: **7/23/2004** Phone: **(918) 491-4957**

OIL CONSERVATION DIVISION  
Approved by: *[Signature]*  
Title: **PETROLEUM ENGINEER**  
Approval Date: **AUG 26 2004**

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

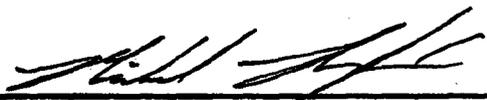
Previous Operator Signature:	Printed Name	Title	Date
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Apache Corporation  
 6120 S. Yale Ste 1500  
 Tulsa, OK 74136

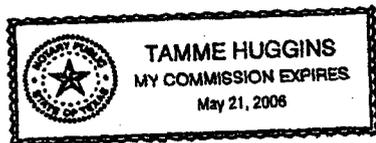
Hawk B-1 # 37  
 Lea County New, Mexico

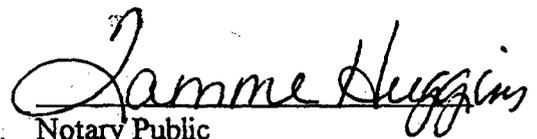
191	1.91	1/4	0.44	0.84	0.84
374	1.83	1 1/4	2.19	4.00	4.84
888	5.14	1	1.75	9.00	13.83
1386	4.98	1	1.75	8.72	22.55
1887	5.01	1	1.75	8.77	31.32
2505	6.18	2 1/4	3.94	24.33	55.65
3005	5.00	1	1.75	8.75	64.40
3503	4.98	3/4	1.31	6.54	70.94
3939	4.36	1/4	0.44	1.91	72.84
4350	4.11	1	1.75		80.04



  
 Michael Roghair - General Manager

The attached instrument was acknowledged before me on the 7<sup>th</sup> day of June, 2004 by Michael Roghair - General Manager, CapStar Drilling, L.P.



  
 Notary Public



**New Mexico Oil Conservation Division, District I**  
**1625 N. French Drive**  
**Hobbs, NM 88240**

Form 3160-5  
 (September 2001)

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

FORM APPROVED  
 OMB No. 1004-0135  
 Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 Do not use this form for proposals to drill or to re-enter an  
 abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
 NMNM90161

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
 HAWK B-1 37

9. API Well No.  
 30-025-36686

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 APACHE CORPORATION

3a. Address  
 6120 S. YALE, STE. 1500 TULSA, OK 74136

3b. Phone No. (include area code)  
 918-491-4980

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 AT SURFACE                      NESE LOT 1 2590FSL 1310FEL  
 AT PROPOSED PROD. ZONE NESE 2590FSL & 1310FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SPUD, SURF. CSG., TD, LOG, PROD. CSG.,
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

5/30/2004 MIRU CAPSTAR RIG # 8 SPUD 12 1/4" HOLE - DRILL TO 408 SURVEY @ 374= 1.25 POH W/ BIT WAIT ON CASING, HAND RIH 9 JTS. 412.41' 8 5/8" 24# J55 ST&C CSG. W/ 5 CENTRALIZERS BJ CMT. SHOE @ 468 W/ 325 SX CLASS C + 2% CACL + 1/8# CF = 78 BBLs. 14.8# SLURRY W/ 1.35 YIELD -DISPLACE PLUG TO 378 W/ 23 BFW- CIRC @ 378 CMT. TO PIT WOC CUT OFF CSG. - WELD ON HEAD NU BOP EQUIP.

5/31/2004- DRILL & SURVEY FROM 408-4350. CIRCULATE FOR LOGS SURVEY @ 4344= 1.0 POH W/ BIT HOLD BURTON RAN  
 6/4/2004 COMPENSATED SONIC LOG 4292-3300; DUAL LATEROLOG MICRO-LOG 4343-3300; GR DUAL SPACED NEUTRON SPECTRAL DENSITY 4268-200 WAIT ON CASING HAND RIH 98 JTS. 4358.78' 5 1/2" 17# K55 LT&C CSG. W/ 18 CENTRALIZERS BJ CMT. SHOE @ 4350 - FC @ 4302 W/ 575 SX. 50:50 POZ W/ 10% GEL + 5% SALT + 1/8# CF = 249 BBLs. 11.8# SLURRY W/ 2.44 YIELD & 350 SX 50:50 POZ W/ 2% GEL + 5% SALT = 80 BBLs. 14.2# SLURRY W/ 1.29 YIELD- PLUG BUMPED & HELD - CIRC. 181 SX. CMT. TO PIT - DISPLACED W/ 2% KCL WATER ND BOP - SET SLIPS - CUT OFF CSG. -

RELEASE RIG @ 5:00 AM 6-4-2004

**ACCEPTED FOR RECORD**

JUL 22 2004

GARY COURLEY  
 PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed)  
 LANA WILLIAMS

Signature *Lana Williams*

Title DRILLING CLERK II

Date 6/23/2004

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse) **GW**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
1625 N. French Dr.  
Hobbs, NM 88240

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **APACHE CORP.**

3a. Address **6120 S. YALE, STE 1500 TULSA, OK 74136** 3b. Phone No. (include area code) **918-491-4900**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**AT SURFACE NESE 2590FSL 1310FEL**  
**AT PROPOSED PROD. ZONE NESE 2590FSL 1310FEL**

5. Lease Serial No.  
**NMNM90161**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**HAWK B-1 #37**

9. API Well No.  
**30-025-36686**

10. Field and Pool, or Exploratory Area  
**PENROSE SKELLY; GRAYBURG**

11. County or Parish, State  
**LEA, NM**

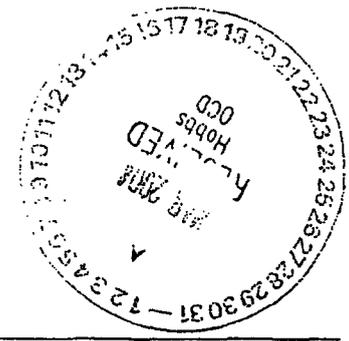
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>ADD POOL</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**EXTEND TOTAL DEPTH FROM 4150' TO 4800'.**

**ADD PROPOSED POOL: HARE; SAN ANDRES (GAS) (78080).**



14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed) **Michelle L. Hanson** Title **Engineering Tech., Drilling Dept.**

Signature *Michelle L. Hanson* Date **2/23/2004**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by **(OFFIC. SGD.) DAVID H. CLARK** Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1004 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

OPER. OGRID NO. 873  
 PROPERTY NO. 24427  
 POOL CODE 30350  
 EFF. DATE 4/29/04  
 APPL API NO. 30-025-36686



5. Lease Serial No.  
NMNM90161

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
HAWK B-1 37

9. API Well No.  
30-025-36686

10. Field and Pool, or Exploratory  
PENROSE SKELLY

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 9 T21S R37E Mer NMP  
SME: FEE

12. County or Parish  
LEA

13. State  
NM

14. Distance in miles and direction from nearest town or post office\*  
3 MILES NORTHWEST OF EUNICE, NM

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
50'

16. No. of Acres in Lease  
958.25

17. Spacing Unit dedicated to this well  
40.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
885.5'

19. Proposed Depth  
4150 MD  
4150 TVD

20. BLM/BIA Bond No. on file

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
3474 GL

22. Approximate date work will start  
12/15/2003

23. Estimated duration  
15 DAYS

**CONFIDENTIAL**

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
APACHE CORPORATION  
Contact: BONNIE JONES  
E-Mail: bonitaj@cableone.net

3a. Address  
6120 SOUTH YALE, SUITE 1500  
TULSA, OK 74136-4224  
3b. Phone No. (include area code)  
Ph: 505.624.9799  
Fx: 505.624.9799

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface NESE Lot I 2590FSL 1310FEL  
At proposed prod. zone NESE 2590FSL 1310FEL  
**SUBJECT TO LIKE APPROVAL BY STATE**  
Unit I

14. Distance in miles and direction from nearest town or post office\*  
3 MILES NORTHWEST OF EUNICE, NM

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
50'

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
885.5'

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
3474 GL

24. Attachments **Capitan Controlled Water Basin**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission) Name (Printed/Typed) BONNIE JONES Date 11/17/2003

Title AGENT

Approved by (Signature) /s/ JOE G. LARA Name (Printed/Typed) /s/ JOE G. LARA Date DEC 15 2003

Title FIELD MANAGER Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

**APPROVAL FOR 1 YEAR**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #25168 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Hobbs

**APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED**

**DECLARED WATER BASIN CEMENT BEHIND THE 8 3/8" CASING MUST BE CIRCULATED**

**CEMENT BEHIND THE 5 1/2" CASING MUST BE CIRCULATED**

\*\* BLM REVISED \*\*

OK

DISTRICT I  
P.O. Box 1000, Santa Fe, N.M. 87504-1000

DISTRICT II  
P.O. Box 1000, Santa Fe, N.M. 87504-1000

DISTRICT III  
1000 No. Wagon Rd., Santa Fe, N.M. 87504

DISTRICT IV  
P.O. Box 1000, Santa Fe, N.M. 87504-1000

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised February 18, 1984  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 5 Copies

EXHIBIT D-1

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number <b>30-025-36686</b>	Pool Code <b>50350</b>	Pool Name <b>Penrose Skelly; Grayburg</b>
Property Code <b>24427</b>	Property Name <b>HAWK B-1</b>	Well Number <b>37</b>
OCRD No. <b>873</b>	Operator Name <b>APACHE CORPORATION</b>	ELEVATION <b>3474'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	9	21-S	37-E		2590'	SOUTH	1310'	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 <b>40.00</b>	Joint or Infill	Consolidation Code	Order No. <b>NSL-5032(SD)</b>
---------------------------------	-----------------	--------------------	----------------------------------

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 Y = 545100.0 N X = 860784.8 E LAT. 32°29'35.34"N LONG. 103°08'47.59"W</p>		<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Michelle Hanson</i> Signature</p> <p>Michelle Hanson Printed Name</p> <p>Drilling Tech Title</p> <p>9/22/03 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>August 06, 2003</p> <p>Date Surveyed _____ A.W.B.</p> <p>Signature of Seal of Professional Surveyor <i>Ronald J. Gibson</i> 8/6/03</p> <p>Certification No. RONALD J. GIBSON 2888 GARY GIBSON 12844</p>

DISTRICT I  
P.O. Box 1888, Hobbs, NM 88240-1888

DISTRICT II  
P.O. Box 88, Lordsburg, NM 88311-0088

DISTRICT III  
1000 Elko Avenue Rd., Artes, NM 87410

DISTRICT IV  
P.O. Box 8888, SANTA FE, N.M. 87506-8888

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised February 10, 1984  
Submit to Appropriate District Office  
State Lease - 3 Copies

EXHIBIT D-2

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

AMENDED REPORT

APT Number		Pool Code		Pool Name	
Property Code	Property Name <b>HAWK B-1</b>				Well Number <b>37</b>
OGED No.	Operator Name <b>APACHE CORPORATION</b>				ELEVATION <b>3474'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South Line	Feet from the	East/West Line	County
1	9	21-S	37-E		2590'	SOUTH	1310'	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South Line	Feet from the	East/West Line	County

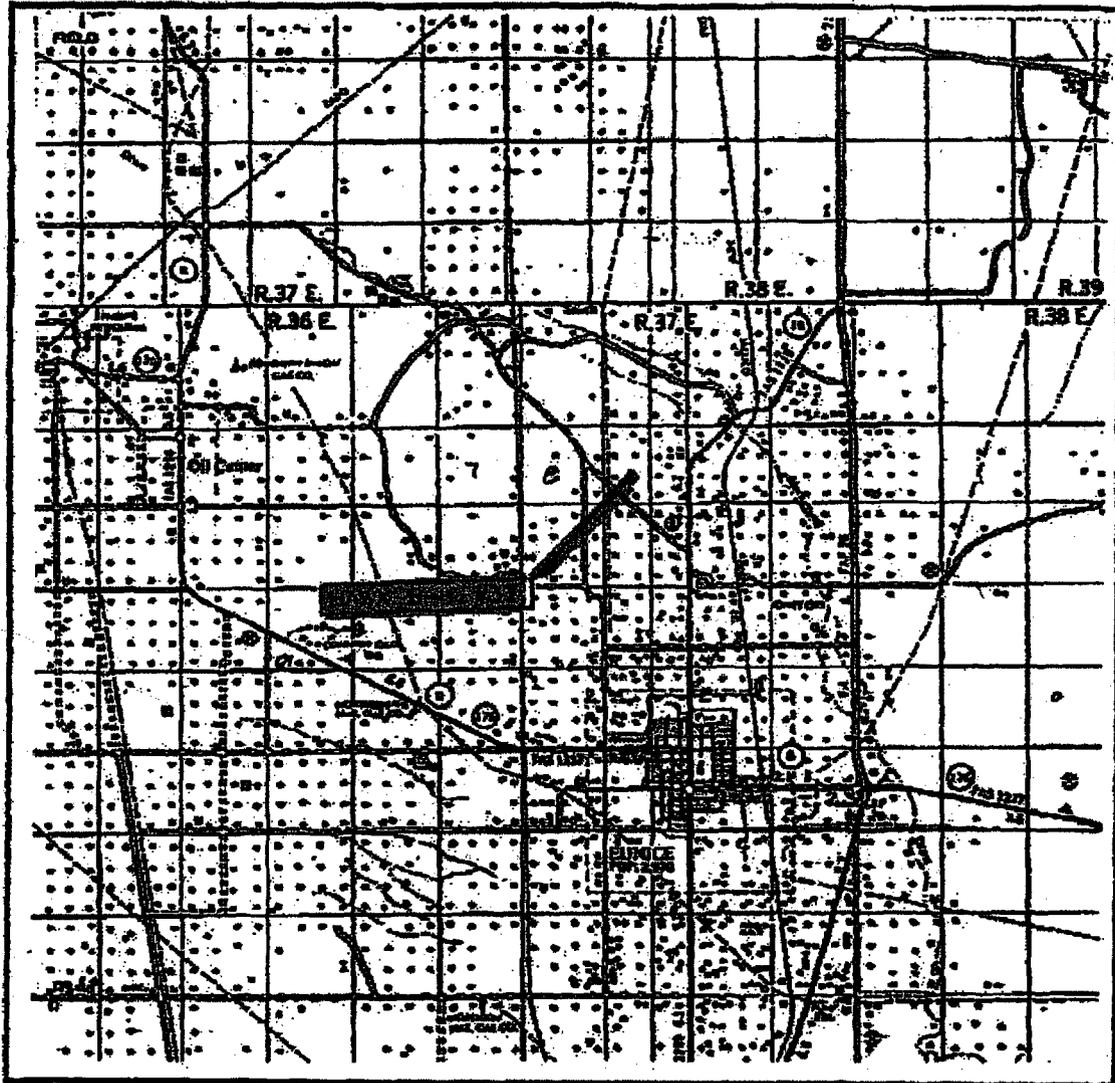
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

**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><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that 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>August 06, 2003</p> <p>Date Surveyed _____ A.W.S.</p> <p>Signature &amp; Seal of Professional Surveyor _____</p> <p>03.11.0845</p> <p>Certificate No. <b>RONALD L. HINSON 3239</b> <b>GARY HINSON 12841</b></p>
--	---

# VICINITY MAP

EXHIBIT E-1



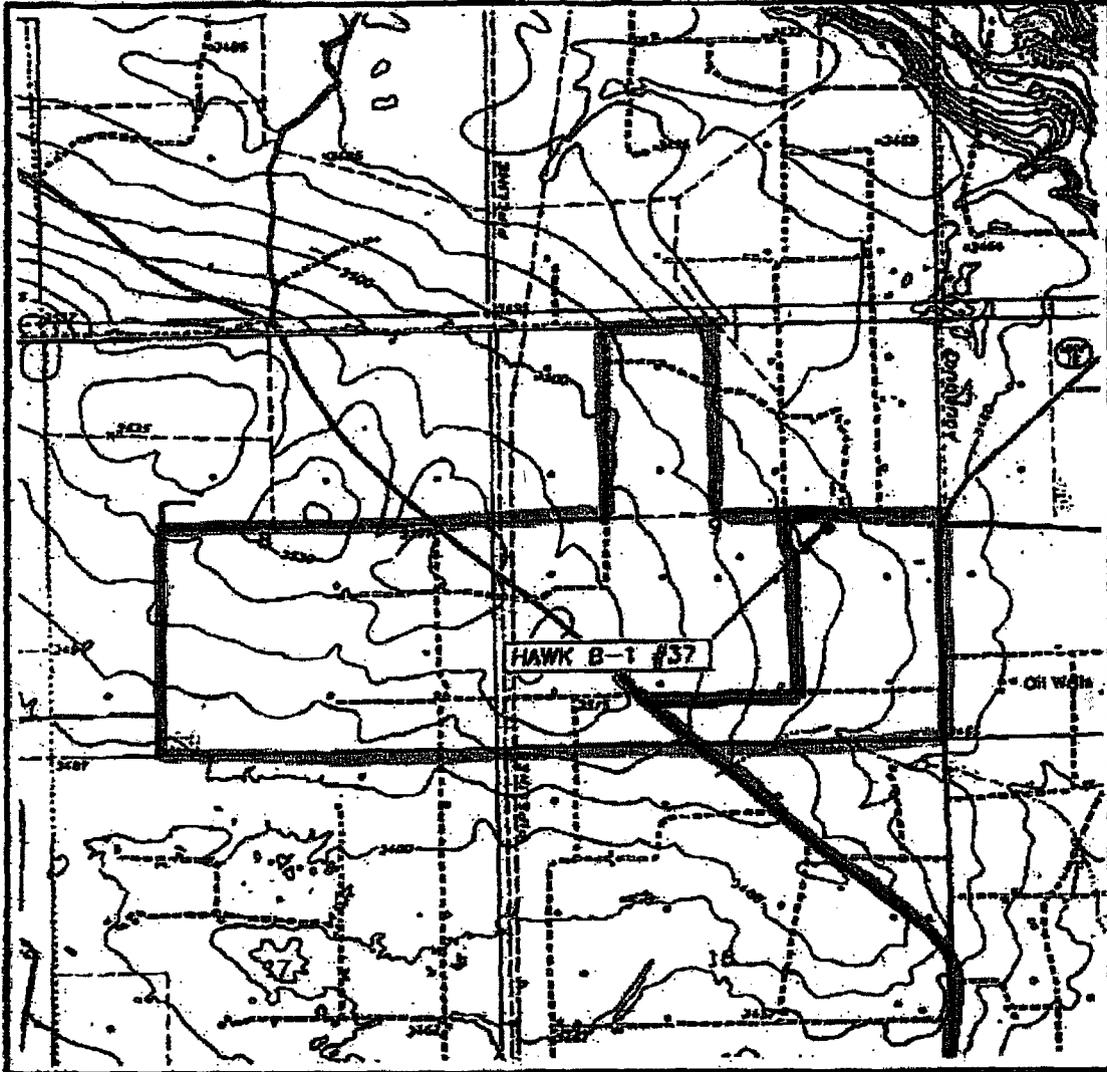
SCALE: 1" = 2 MILES

SEC. 9 TWP. 21-S RGE. 37-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 2590' FEL & 1310' FEL  
 ELEVATION 3474'  
 OPERATOR APACHE CORPORATION  
 LEASE HAWK B-1

**JOHN WEST SURVEYING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

# LOCATION VERIFICATION MAP

EXHIBIT E-2



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'  
EUNICE, N.M.

SEC. 9 TWP. 21-S RGE. 37-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 2590' FSL & 1310' FEL  
 ELEVATION 3474'  
 OPERATOR APACHE CORPORATION  
 LEASE HAWK B-1  
 U.S.G.S. TOPOGRAPHIC MAP  
 EUNICE, N.M.

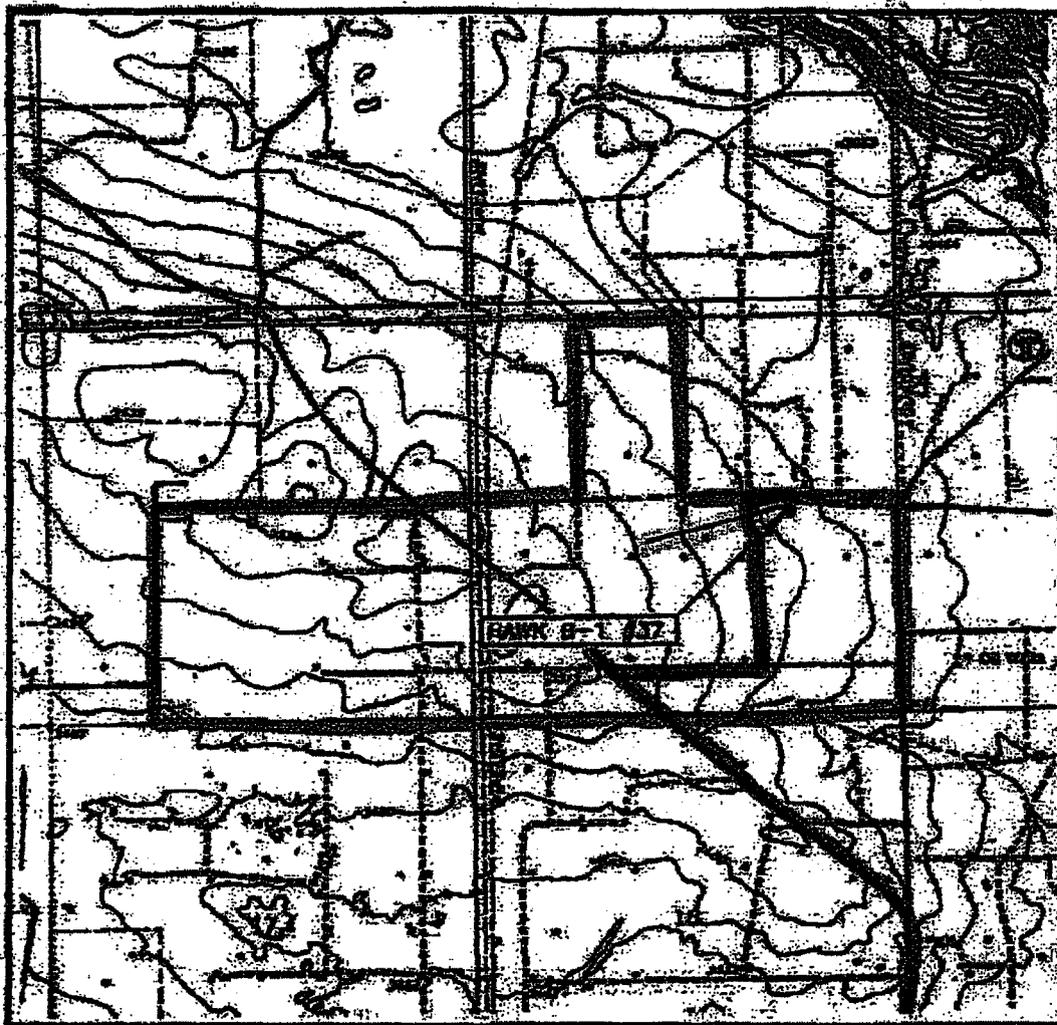
**JOHN WEST SURVEYING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**

ACCESS 

LEASE BOUNDARY 

# LOCATION VERIFICATION MAP

EXHIBIT E-3



SCALE: 1" = 2000'

SEC. 9 TWP. 21-S. RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2500' FSL & 1500' FSL

ELEVATION 3472'

OPERATOR APACHE CORPORATION

LEASE RANK B-1

U.S.G.S. TOPOGRAPHIC MAP

EDINCE, N.M.

*1951  
Flow line*

CONTOUR INTERVAL: 10'  
EDINCE, N.M.

Flow-line Route

**JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117**

ACCESS

LEASE BOUNDARY

