

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  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-101  
Revised March 17, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1 Operator Name and Address Apache Corporation / Attn: Debra J. Anderson 2000 Post Oak Blvd. Ste. 100 Houston, Texas 77056-4400		2 OGRID Number 000873
4 Property Code 23108		3 API Number 30-025-06517
5 Property Name Livingston		6 Well No. 6

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
S	3	21S	37E		1980	South	2308	West	Lea

8 Proposed 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
9 Proposed Pool 1 Penrose Skelly; Grayburg					10 Proposed Pool 2 Hare; San Andres, East				

11 Work Type Code P	12 Well Type Code O	13 Cable/Rotary	14 Lease Type Code P	15 Ground Level Elevation 3439
16 Multiple	17 Proposed Depth 8230 (TD)	18 Formation Grayburg / San Andres	19 Contractor	20 Spud Date ASAP

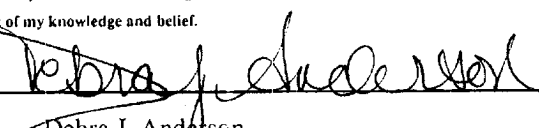
21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/4	13-3/8	32#	222	250	Surface
11	8-5/8	28# & 32#	3147	2200	Surface
7-7/8	5-1/2 Liner	15.5# & 17#	2944 - 8228	895	TOC @ 2944

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Apache proposes to abandon the Abo formation by setting a CIBP @ 6900' w/ 10' of cement on top and recomplete to the Grayburg formation by perforating from 3865 - 3970.

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:   
Printed Name: Debra J. Anderson  
Title: Sr. Engineering Technician  
Date: 11/27/00  
Phone: 713-296-6338

OIL CONSERVATION DIVISION

Approved by:   
DISTRICT SUPERVISOR

Title:  
Approval Date: 11/27/00  
Expiration Date:

Conditions of Approval:  
Attached ☐

# C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- 1 Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in
- 4 Property code. If this is a new property the OCD will assign the number and fill it in
- 5 Property name that used to be called "well name"
- 6 The number of this well on the property
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the "UL or lot no." box. Otherwise use the OCD Unit Letter
- 8 The proposed bottom hole location of this well at TD
- 9 and 10 The proposed pool(s) to which this well is being drilled
- 11 Work type code from the following table:

N	New well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone
- 12 Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	Multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well
- 13 Cable or rotary drilling code

C	Propose to cable tool drill
R	Propose to rotary drill
- 14 Lease type code from the following table:

S	State
P	Private
- 15 Ground level elevation above sea level
- 16 Intend to multiple complete? Yes or No
- 17 Proposed total depth of this well
- 18 Geologic formation at TD
- 19 Name of the intended drilling company if known
- 20 Anticipated spud date
- 21 Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and BOP program. Attach additional sheets if necessary
- 23 The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report

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State of New Mexico  
Energy, Minerals and Natural Resources Department

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2040 S. Pacheco  
Santa Fe, New Mexico 87505

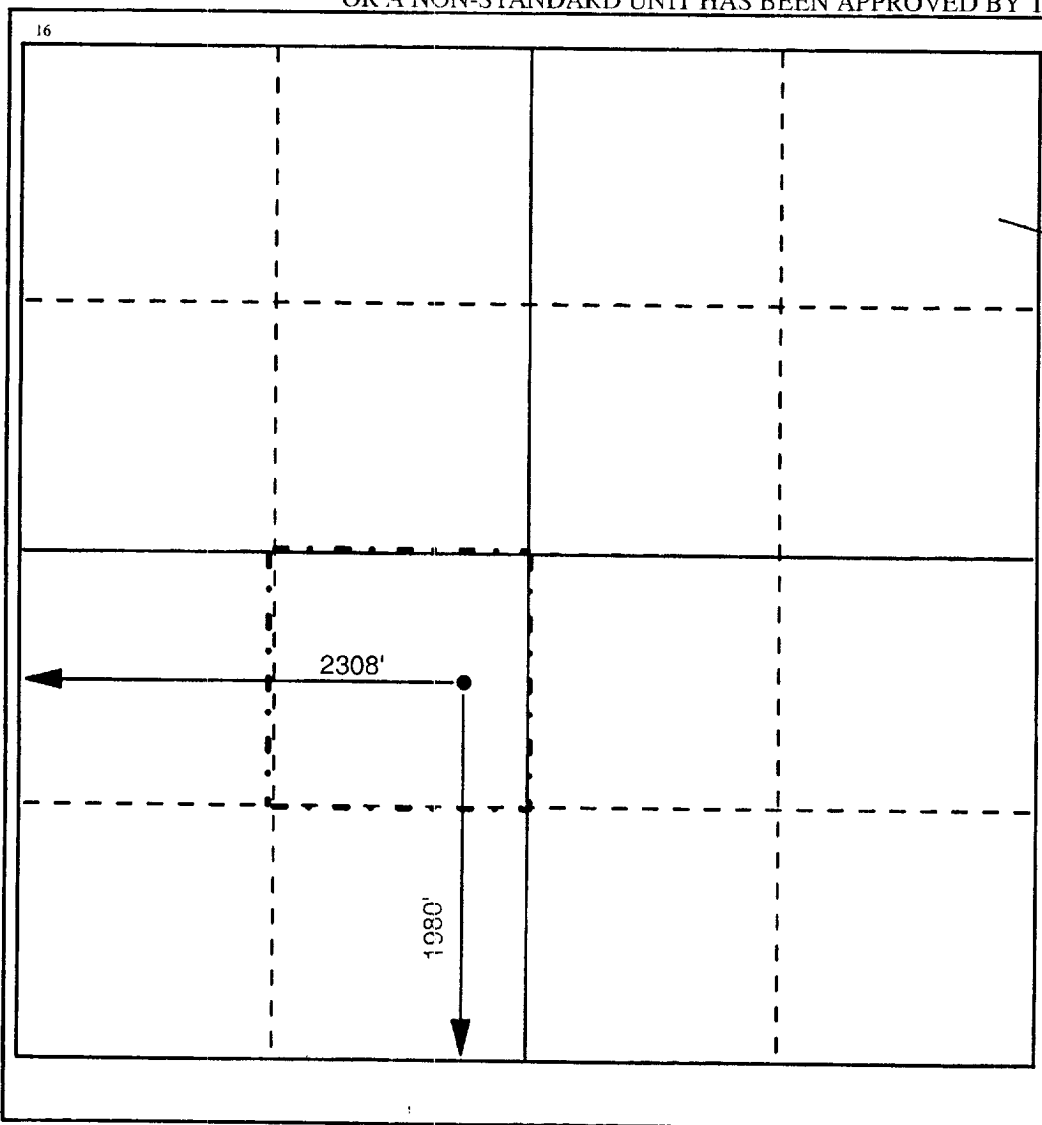
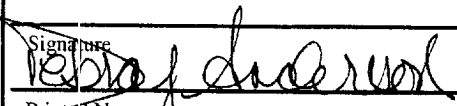
Form C-102  
Revised October 18, 1994  
Instruction on Back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-06517		<sup>2</sup> Pool Code 50350		<sup>3</sup> Pool Name Penrose Skelly; Grayburg					
<sup>4</sup> Property Code 23108		<sup>5</sup> Property Name Livingston				<sup>6</sup> Well Number 6			
<sup>7</sup> OGRID No. 000873		<sup>8</sup> Operator Name Apache Corporation				<sup>9</sup> Elevation 3439			
<sup>10</sup> Surface Location									
UL or Lot No. S	Section 3	Township 21S	Range 37E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 2308	East/West line West	County Lea
<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>14</sup> 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

<div>16</div> 	<div>17 OPERATOR CERTIFICATION</div> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>Signature </p> <p>Printed Name Debra J. Anderson</p> <p>Title Sr. Engineering Technician</p> <p>Date 11/27/00</p>
	<div>18 SURVEYOR CERTIFICATION</div> <p><i>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.</i></p> <p>Date Surveyed</p> <p>Signature and Seal of Professional Surveyor</p>
	Certificate Number

Office

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State of New Mexico  
Geology, Minerals and Natural Resources

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
Santa Fe, NM 87505

FORM C-103  
Revised March 25, 1999

<p align="center"><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>WELL APINO. <b>30-025-06517</b></p>
<p>1. Type of Well:  <input checked="" type="checkbox"/> OIL WELL    <input type="checkbox"/> GAS WELL    <input type="checkbox"/> OTHER         </p>		<p>5. Indicate Type of Lease  <input type="checkbox"/> STATE    <input checked="" type="checkbox"/> FEE         </p>
<p>2. Name of Operator <b>Apache Corporation</b></p>		<p>6. State Oil &amp; Gas Lease No.</p>
<p>3. Address of Operator <b>2000 Post Oak Blvd., Ste. 100, Houston, Texas 77056-4400</b></p>		<p>7. Lease Name or Unit Agreement Name  <b>Livingston</b></p>
<p>4. Well Location            Unit Letter <b>S</b> : <b>1980</b> Feet From The <b>South</b> Line and <b>2308</b> Feet From The <b>West</b> Line            Section <b>3</b> Township <b>21S</b> Range <b>37E</b> NMPM <b>Lea</b> County         </p>		<p>8. Well No.</p>
<p>10. Elevation (Show whether DF, FKE, RT, GR, etc.) <b>3439' GR</b></p>		<p>9. Pool name or Wildcat <b>Hare, San Andres, East</b> <sup>6</sup> <b>Pensose Shelly Grayburg</b></p>

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
<input type="checkbox"/> Perform Remedial Work <input type="checkbox"/> Temporarily Abandon <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Other	<input type="checkbox"/> Remedial Work <input type="checkbox"/> Commence Drilling Operations <input type="checkbox"/> Casing Test and Cement Job <input checked="" type="checkbox"/> Other
<input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Change Plans	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Plug and Abandonment Plugback to the Hare; San Andres, East Pool

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 8/21/00 MIRU. Pull out of hole w/ production equipment. Run in hole w/ casing scraper to 7000'.
- 8/22/00 Pull out of hole w/ casing scraper. Run in hole & set CIBP @ 6919'. Dump 35' cement on top. POH.
- 8/23/00 RIH w/ CIBP & set @ 5500'. Dump 35' cement on top. POH Pressure test CIBP to 1000# for 5 minutes - OK.
- 8/24/00 Perforate Hare; San Andres, East 3865' - 3870', 3878' - 3882', 3900' - 3920', 3933' - 3937', 3946' - 3970'. Acidize San Andres 3865' - 3970' w/ 3000 gals 15% HCL.
- 8/28/00 Frac San Andres 3865' - 3970' w/ 13250 gals gel & 12000# 16/30 sand
- 8/29/00 RIH w/ workstring. Clean out wellbore to 3100'. POH. RIH w/ 4-3/4" blade bit, tag sand @ 3490'.
- 8/30/00 Clean out sand to bottom perfs @ 3970'. Circulate well clean. RIH to 4100' - no sand. POH w/ workstring.
- 8/31/00 RIH w/ 2-3/8" tubing and set @ 4012'.
- 9/1/00 RIH w/ pump & rods. Return to production.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Debra J. Anderson TITLE Sr. Engineering Technician DATE 9/15/00

TYPE OR PRINT NAME Debra J. Anderson TELEPHONE NO. 713-296-6338

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

JC

2A wants Aho