

District I  
1625 N. French Dr , Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address Apache Corporation		<sup>2</sup> OGRID Number 873
<sup>3</sup> Property Code 34816		<sup>4</sup> API Number 30 - 025-37608
<sup>5</sup> Property Name New Mexico S State		<sup>6</sup> Well No. 48
<sup>9</sup> Proposed Pool 1 Penrose Skelly; Grayburg (50350)		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no F	Section 2	Township 22S	Range 37E	Lot Idn	Feet from the 1880	North/South line North	Feet from the 1650	East/West line West	County Lea
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<sup>8</sup> 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
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Additional Well Information

<sup>11</sup> Work Type Code A	<sup>12</sup> Well Type Code Oil	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3368'
<sup>16</sup> Multiple Yes	<sup>17</sup> Proposed Depth 4180' (CIBP)	<sup>18</sup> Formation Grayburg/San Andres	<sup>19</sup> Contractor Open	<sup>20</sup> Spud Date Open

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	24#	396'		Surface
7-7/8"	5-1/2"	17#	4655'		164'

<sup>22</sup> 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.  
This well is currently producing from the San Andres. Apache requests to recomple to the Grayburg and downhole commingle both zones.

1. MIRU workover unit. POOH w/rods and tubing.
2. CO to PBTD
3. Set composite BP @ ~3840'.
4. Perforate and stimulate the Grayburg.
5. CO fill. Drill out CBP.
6. TIH w/production equipment, produce well.

Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Adding

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature:		Approved by:	
Printed name: Amber Cooke		Title: PETROLEUM ENGINEER	
Title: Engineering Tech		Approval Date: NOV 10 2009	Expiration Date:
E-mail Address: amber.cooke@apachecorp.com			
Date: 10/28/2009	Phone: 918.491.4968		

**Oil Conservation Division**  
Conditions of approval : Approval for drilling/workover ONLY-- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87401

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals &amp; Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

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 30-025-37608	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name Penrose Skelly, Grayburg
<sup>4</sup> Property Code 34816	<sup>5</sup> Property Name New Mexico S State	<sup>6</sup> Well Number 48
<sup>7</sup> OGRID No. 873	<sup>8</sup> Operator Name Apache Corporation	<sup>9</sup> Elevation 3368' GL

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	2	22S	37E		1880	North	1650	West	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>15</sup> Order No.
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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.

<sup>16</sup> 	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature Date 10/28/2009 Printed Name Amber Cooke	
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. Date of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	

## DISTRICT I

1625 N. FRENCH DR., ROBERTS, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## State of New Mexico

Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-37608	Pool Code 24170	Pool Name Eunice; San Andres, South
Property Code 34816	Property Name NEW MEXICO STATE S	Well Number 48
OGRID No. 00873	Operator Name APACHE CORPORATION	Elevation 3368'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	2	22-S	37-E		1880	NORTH	1650	WEST	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 48.90	Joint or Infill	Consolidation Code	Order No.
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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

LOT 4	LOT 3	LOT 2	LOT 1
39.78 AC	39.76 AC	39.76 AC	39.74 AC
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=519608.4 N X=869298.5 E</p> <p>LAT.=32°25'22.19" N LONG.=103°08'11.54" W</p>			
<p>OCTOBER 5, 2005</p> <p>DATE SURVEYED</p> <p>SIGNATURE &amp; SEAL OF PROFESSIONAL SURVEYOR</p> <p>CERTIFICATE No. RONALD E. EDSON 3239</p>			

## OPERATOR CERTIFICATION

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

*Elaine Linton*  
Signature

Elaine Linton  
Printed Name

Engineering Tech.  
Title

4/20/2006  
Date

## SURVEYOR CERTIFICATION

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

OCTOBER 5, 2005

Date Surveyed LA

SIGNATURE & SEAL OF  
PROFESSIONAL SURVEYOR

*Ronald E. Edson*  
105.111557  
10/13/05

Certificate No. RONALD E. EDSON 3239

# Apache Corporation

Co. Rep Hal Hogsett  
 Well Name NM State Well No. 48  
 Field Eunice; San Andres South  
Penrose Skelly; Grayburg  
 County Lea  
 State New Mexico  
 Date 10/12/2009  
 GL 3,368'  
 KB 3,379'

Casing	O.D.	Grade	Wt	Depth	TOC
Surf	8-5/8"	J-55	24#	396'	Surf
Inter					
Prod	5-1/2"	J-55	17#	4,655'	164'
Liner					

TOC @ surf

Depth	Description
3,794'	Marker Joint
4,146'	Seat Nipple
4,180'	CIBP
4,609'	Float Collar

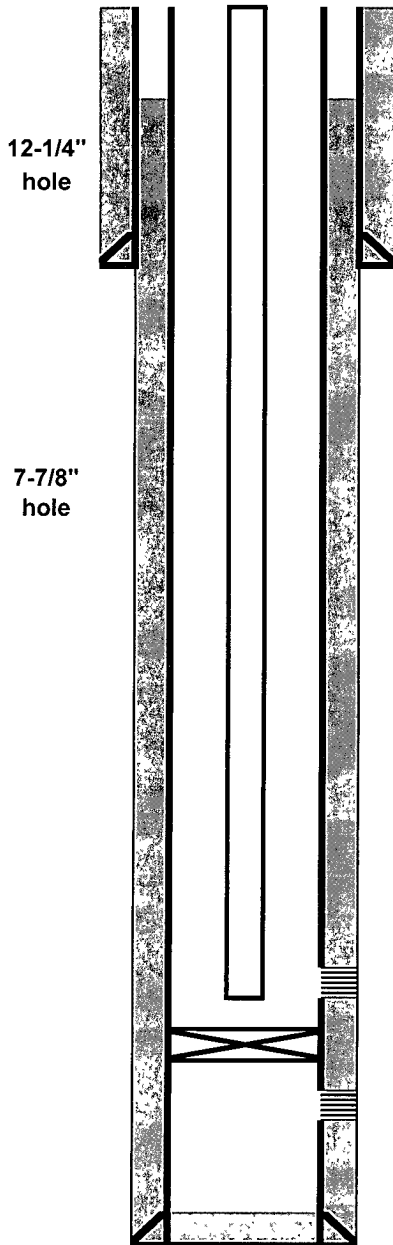
TOC @ 164'

2-7/8" tbg set @ 4,146'

UP SA 3,860' – 4,082' (2 JSPF, 53 shots)

LO SA 4,208' – 4,252' (2 JSPF, 31 shots)

PBTD @ 4,180'  
 TD @ 4,655'



# Apache Corporation

Co. Rep Hal Hogsett  
 Well Name NM State Well No. 48  
 Field Eunice; San Andres South  
Penrose Skelly; Grayburg  
 County Lea  
 State New Mexico  
 Date 10/12/2009  
 GL 3,368'  
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Casing	O.D.	Grade	Wt	Depth	TOC
Surf	8-5/8"	J-55	24#	396'	Surf
Inter					
Prod	5-1/2"	J-55	17#	4,655'	164'
Liner					

TOC @ surf

Depth	Description
3,794'	Marker Joint
4,146'	Seat Nipple
4,180'	CIBP
4,609'	Float Collar

TOC @ 164'

2-7/8" tbg set @ 4,146'

GB 3,689' - 3,789' (2 JSPF, 28 shots) Proposed

UP SA 3,860' - 4,082' (2 JSPF, 53 shots)

LO SA 4,208' - 4,252' (2 JSPF, 31 shots)

PBTD @ 4,180'  
 TD @ 4,655'

