

District I

1625 N French Dr, Hobbs, NM 88241

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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NOV 24 2009

HOBBSOCO

State of New Mexico

Energy Minerals and Natural Resources

Form C-101

June 16, 2008

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Apache Corporation		² OGRID Number 873
³ Property Code 34816		⁴ API Number 30 - 025-37607
⁵ Property Name New Mexico S State		⁶ Well No. 47
⁹ Proposed Pool 1 Penrose Skelly; Grayburg (50350)		¹⁰ Proposed Pool 2

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
E	2	22S	37E		1830	North	440	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

Additional Well Information

¹¹ Work Type Code A	¹² Well Type Code Oil	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3368'
¹⁶ Multiple Yes	¹⁷ Proposed Depth 4160' (CIBP)	¹⁸ Formation Grayburg/San Andres	¹⁹ Contractor Open	²⁰ Spud Date Open

²¹ 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#	412'		Surface
7-7/8"	5-1/2"	17#	4670'		84'

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.

This well is currently producing from the San Andres. Apache requests to recomplect to the Grayburg and downhole commingle both zones.

1. MIRU workover unit. POOH w/rods and tubing.
2. CO to PBTD @ 4160'
3. Set composite BP @ ~3850'.
4. Perforate and stimulate the Grayburg.
5. CO fill. Drill out CBP
6. TIH w/production equipment, produce well from Grayburg and San Andres.

Permit Expires 2 Years From Approval Date Unless Drilling Underway

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

Signature:

Amber Cooke

Printed name: Amber Cooke

Title: Engineering Tech

E-mail Address: amber.cooke@apachecorp.com

Date: 11/20/2009

Phone: 918.491.4968

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title: PETROLEUM ENGINEER

Approval Date: DEC 09 2009

Expiration Date:

Oil Conservation Division

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

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Minerals & 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

¹ API Number 30-025-37607	² Pool Code 50350	³ Pool Name Penrose.Skelly, Grayburg
⁴ Property Code 34816	⁵ Property Name New Mexico S State	⁶ Well Number 47
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation	⁹ Elevation 3372'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	22S	37E		1830	North	440	West	Lea

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ 				¹⁷ OPERATOR CERTIFICATION 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 11/20/2009 Amber Cooke Printed Name	
					¹⁸ 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. Date of Survey Signature and Seal of Professional Surveyor Certificate Number

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-37607	² Pool Code 24170	³ Pool Name Eunice; San Andres, South
⁴ Property Code 34816	⁵ Property Name New Mexico S State	⁶ Well Number 47
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation	⁹ Elevation 3372'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	22S	37E		1830	North	440	West	Lea

¹¹ 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
¹² Dedicated Acres 80	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

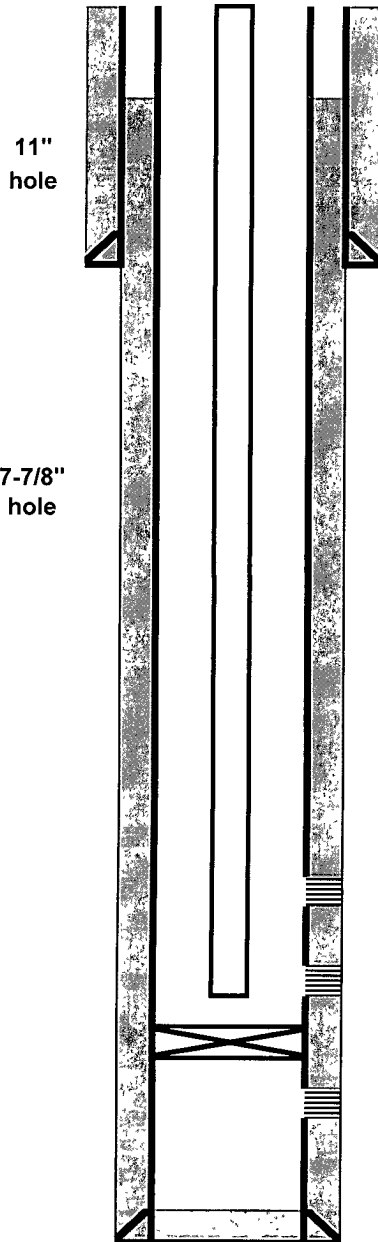
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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				¹⁸ 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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____

Apache Corporation

Co. Rep Hal Hogsett
 Well Name NM State S Well No. 47
 Field Eunice; San Andres South
 API 30-025-37607
 County Lea
 State New Mexico
 Date 10/12/2009
 GL 3,372'
 KB 3,383'

Casing	O.D.	Grade	Wt	Depth	Sacks	TOC
Surf	8-5/8"	J-55	24#	412'	300	Surf
Inter						
Prod	5-1/2"	J-55	17#	4,670'	1,150	84'
Liner						



TOC @ surf

Depth	Description
3,582'	Marker Joint
4,160'	CIBP
4,623'	Float Collar

TOC @ 84'

2-7/8" tbgs set @ 4,114'

GB 3,629' - 3,782' (2 JSPF, 68 shots)

UP SA 3,852' - 4,086' (2 JSPF, 129 shots)

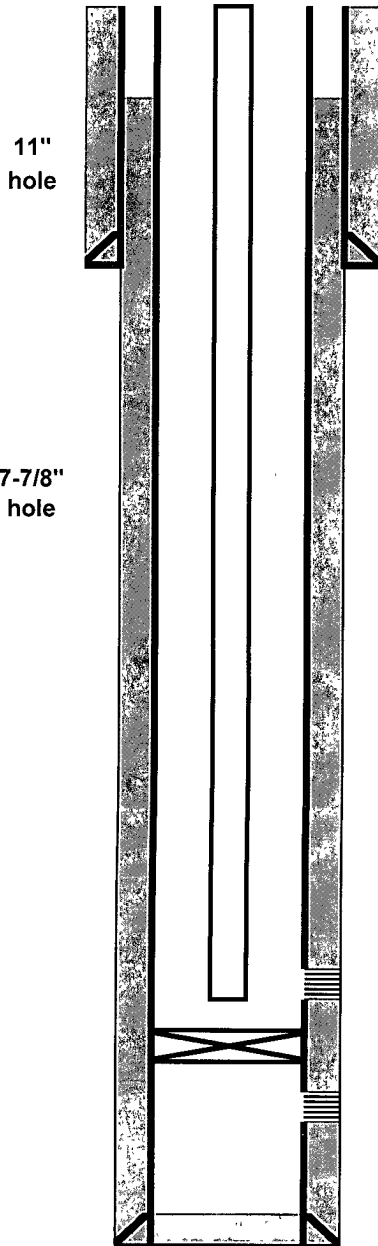
LO SA 4,185' - 4,230' (2 JSPF, 75 shots)

PBTD @ 4,160'
 TD @ 4,670'

Apache Corporation

Co. Rep Hal Hogsett
 Well Name NM State S Well No. 47
 Field Eunice; San Andres South
 API 30-025-37607
 County Lea
 State New Mexico
 Date 10/12/2009
 GL 3,372'
 KB 3,383'

Casing	O.D.	Grade	Wt	Depth	Sacks	TOC
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PBTD @ 4,160'
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