



May 21, 2001

Attn: David Catanach
State of New Mexico - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Application to Downhole Commingle -
H Corrigan No. 12
Penrose Skelly; Grayburg Pool (50350)
Eunice; San Andres Pool (24150)
Sec. 4, T22S - R37E
Lea County, New Mexico**

Apache Corporation would like to request administrative approval to downhole commingle the production from the referenced pools in our H Corrigan # 12 well.

To support this request we submit the following:

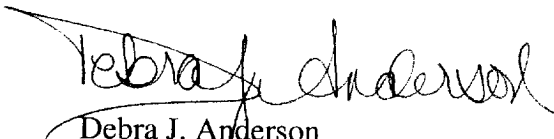
- 1) New Mexico - OCD Form C-107A
- 2) New Mexico - OCD Form C-102 for Penrose Skelly; Grayburg Pool
- 3) New Mexico - OCD Form C-102 for Eunice; San Andres Pool
- 4) Production Curve for the Penrose Skelly; Grayburg Pool
- 5) Production Curve for offset well Owen "B" # 9 in the Penrose Skelly; Grayburg Pool
- 6) Production Curve for offset well Owen "B" # 9 in the Eunice; San Andres Pool
- 7) Allocation formula is based on current production

- 8) Copy of letter sent (by Certified Mail) to Offset operators within one-half mile of the H Corrigan # 12
- 9) Well Bore Diagrams of current completion and proposed completion

If you have any questions or require additional information regarding this application, please contact me at 713-296-6338. Thank you.

Sincerely,

APACHE CORPORATION



Debra J. Anderson
Sr. Engineering Technician

Attachments

cc: New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

DISTRICT I

1625 N. French Drive, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, 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 DepartmentForm C-107A
Revised May 15, 2000**OIL CONSERVATION DIVISION**1220 South St. Francis Drive
Santa Fe, New Mexico 87505-6429

APPLICATION TYPE:

☐ Single Well
☐ Established Pre-Approved Pools
Existing Wellbore
☐ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLE

APACHE CORPORATION

Operator

2000 POST OAK BLVD., SUITE 100, HOUSTON, TEXAS 77056-4400

Address

H CORRIGAN

12

A / Sec. 4 / T-22S / R-37E

Lea

Lease

Well No.

Unit Ltr.-Sec-Twp-Rgn

County

OGRID NO. 000873

Property Code

26470 API No.

30-025-35136

☐ Federal☐ State☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly; Grayburg		Eunice; San Andres
Pool Code	50350		24150
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3598 - 3776		3883 - 4096
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
Bottomhole Pressure <small>(Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)</small>			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	36.7		37.1
Producing, Shut-In or New Zone	Producing		Shut-In
Date and Oil/Gas/Water Rates of Last Production <small>(Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)</small>	Date: 5/10/2001 Rates: 3 x 62 x 37	Date: Rates:	Owen "B" # 9 Date: 5/7/2001 Rates: 3 x 36 x 9
Fixed Allocation Percentage <small>(Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)</small>	Oil 50% Gas 63%	Oil % Gas %	Oil 50% Gas 37%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interest identical in all commingle zones?

☒ Yes ☐ No

If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

☐ Yes ☐ No

Are all produced fluids from all commingled zones compatible with each other?

☒ Yes ☐ No

Will commingling decrease the value of production?

☐ Yes ☒ No

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

☐ Yes ☐ No

NMOCD Reference Cases No. applicable to this well:

DHC-2674 / DHC-2675

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application

Bottomhole pressure data

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

SIGNATURE

TITLE

Sr. Engineering Technician

DATE

5/21/2001

TYPE OR PRINT NAME

Debra J. Anderson

TELEPHONE NO. 713-296-6338

District I
1625 N. French Drive, Hobbs, NM 88240

District II
P O Drawer DD, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 South St. Francis Drive, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
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

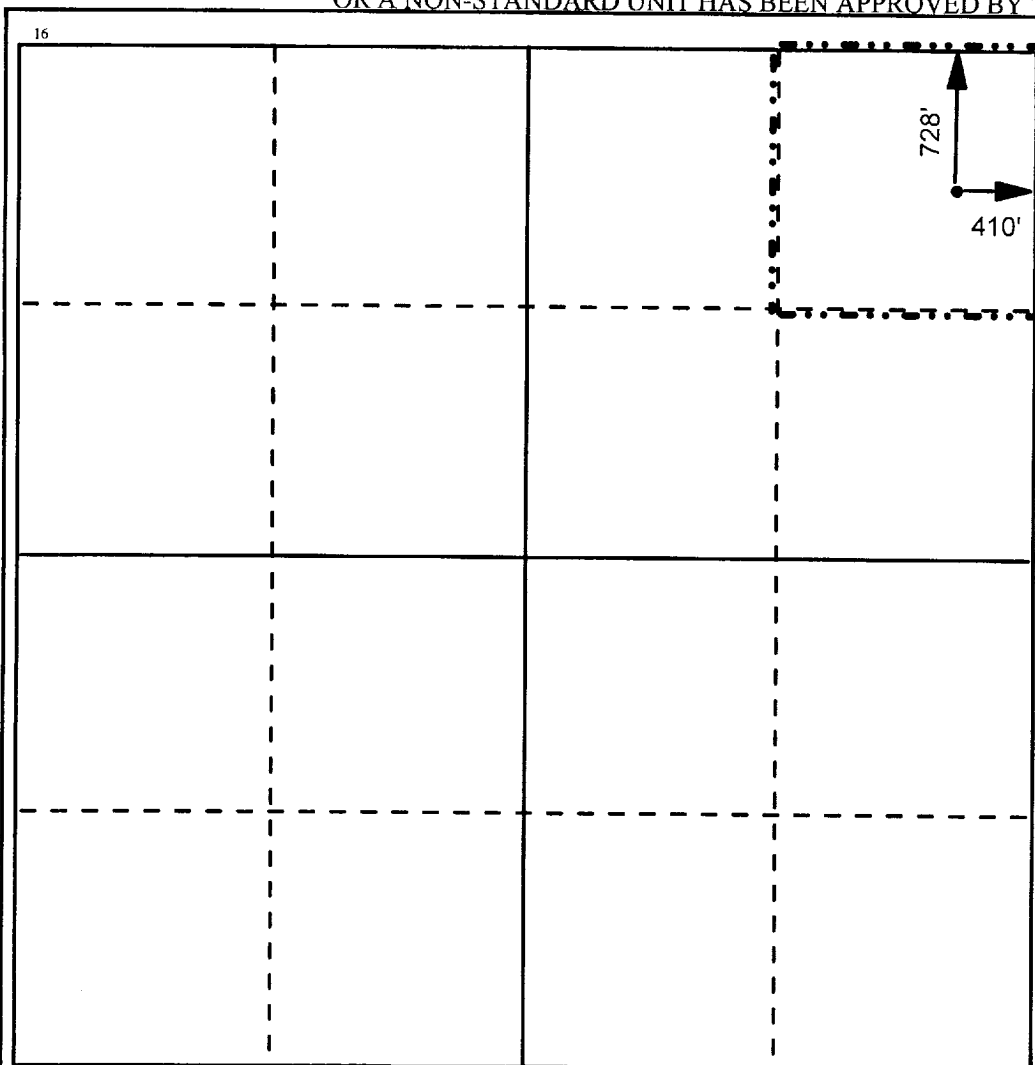
1 API Number 30-025-35136		2 Pool Code 50350		3 Pool Name Penrose Skelly; Grayburg	
4 Property Code 26470		5 Property Name HCorrigan			6 Well Number 12
7 OGRID No. 000873		8 Operator Name Apache Corporation			9 Elevation 3446

10 Surface Location									
UL or Lot No. A	Section 4	Township 22S	Range 37E	Lot Idn	Feet from the 728	North/South line North	Feet from the 410	East/West line East	County 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	14 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



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

Signature: *Debra J. Anderson*

Printed Name: Debra J. Anderson

Title: Sr. Engineering Technician

Date: 5/21/01

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 Surveyed:

Signature and Seal of Professional Surveyor:

Certificate Number:

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-35136		2 Pool Code 24150 24158		3 Pool Name Eunice; San Andres	
4 Property Code 26470		5 Property Name HCorrigan			6 Well Number 12
7 OGRID No. 000873		8 Operator Name Apache Corporation			9 Elevation 3446

Surface Location									
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	4	22S	37E		728	North	410	East	Lea

¹¹ Bottom Hole Location If Different From Surface

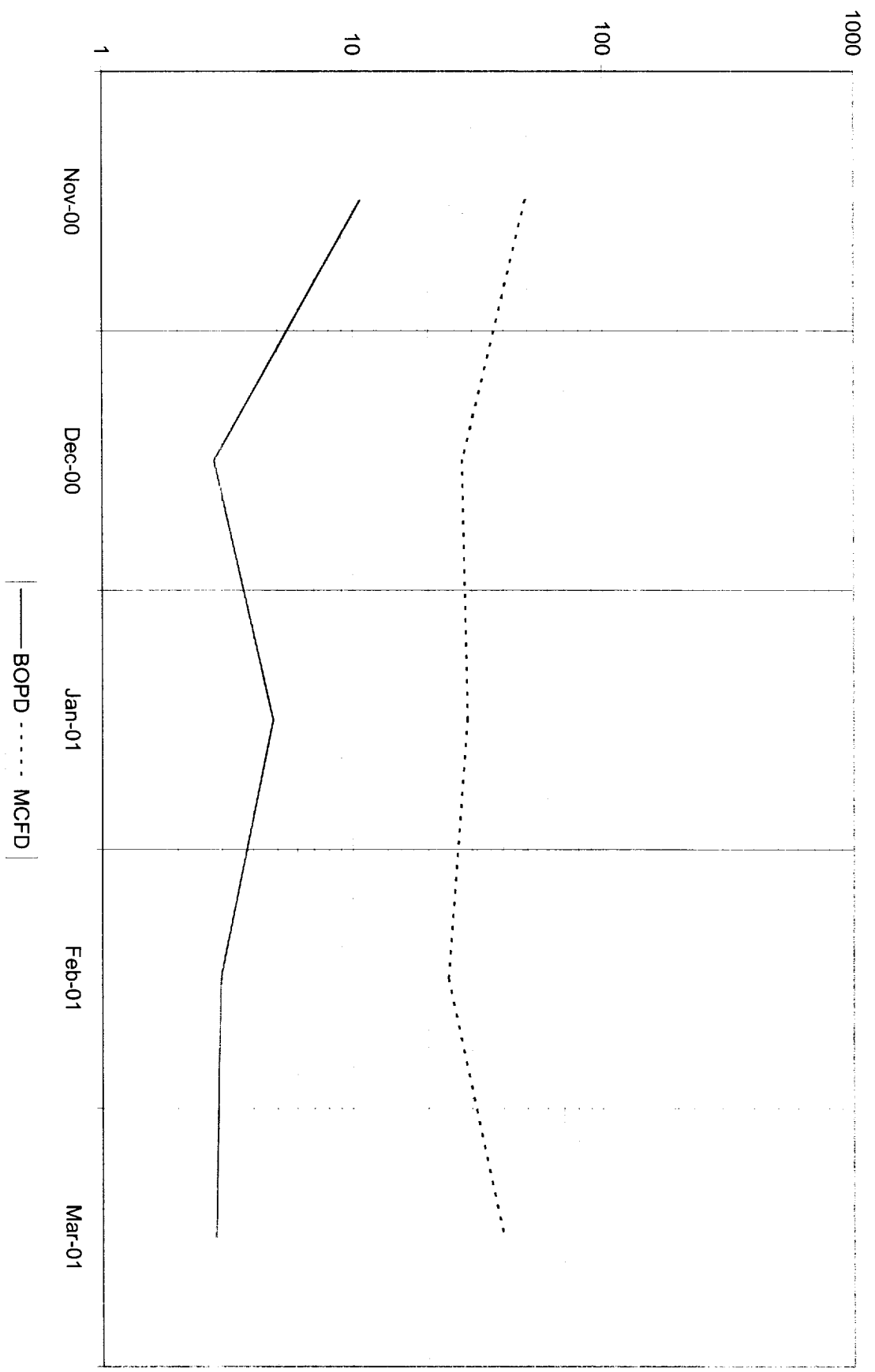
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁴ Order No.
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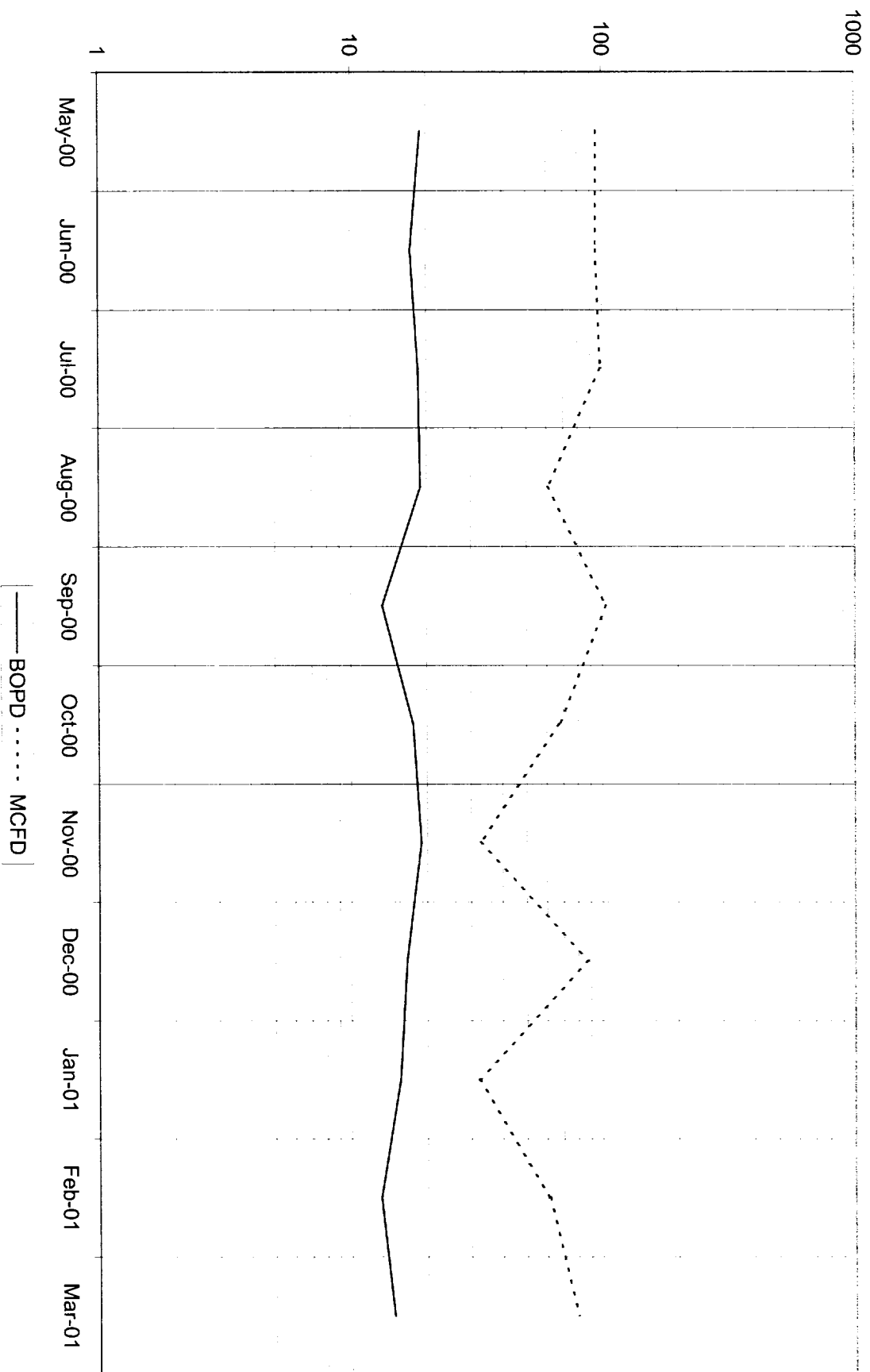
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div style="text-align: right; margin-bottom: 10px;">16</div> <div style="border: 1px solid black; height: 400px; position: relative;"><div style="position: absolute; top: 0; right: 0; border: 2px dashed black; width: 150px; height: 150px; margin: 10px;"><div style="position: absolute; top: 0; right: 0; width: 50px; height: 50px; border: 1px solid black;"><div style="position: absolute; top: 0; right: 0; width: 40px; height: 40px; border: 1px solid black;"><div style="position: absolute; top: 0; right: 0; width: 30px; height: 30px; border: 1px solid black;"><div style="position: absolute; top: 0; right: 0; width: 20px; height: 20px; border: 1px solid black;"><div style="position: absolute; top: 0; right: 0; width: 10px; height: 10px; border: 1px solid black;"></div></div></div></div></div><div style="position: absolute; top: 50px; right: 50px; text-align: center;">728' 410'</div></div></div>	<div style="margin-bottom: 10px;"><div>17</div><div>OPERATOR CERTIFICATION</div><div><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Signature<i>Debra J. Anderson</i></div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Printed NameDebra J. Anderson</div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">TitleSr. Engineering Technician</div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Date5/21/01</div></div>
<div style="border: 1px solid black; height: 400px;"></div>	<div style="margin-bottom: 10px;"><div>18</div><div>SURVEYOR CERTIFICATION</div><div><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></div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Date Surveyed</div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Signature and Seal of Professional Surveyor</div></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"><div style="display: flex; justify-content: space-between;">Certificate Number</div></div>

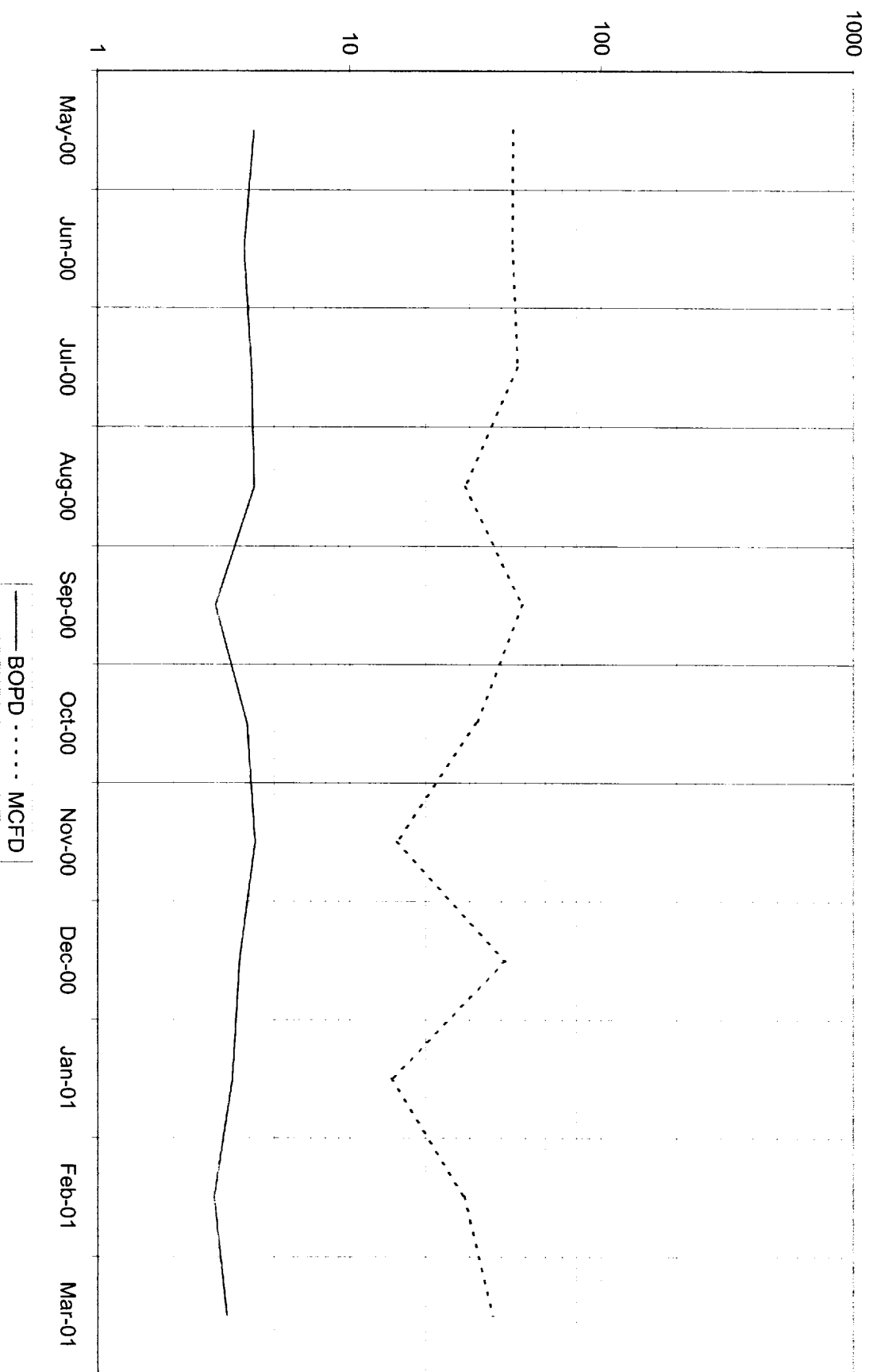
H CORRIGAN NO. 12 - PENROSE SKELLY; GRAYBURG



OWEN "B" NO. 9 - PENROSE SKELLY; GRAYBURG



OWEN "B" NO. 9 - EUNICE (SAN ANDRES)



2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400



WWW.APACHECORP.COM
(713) 296-8000

May 21, 2001

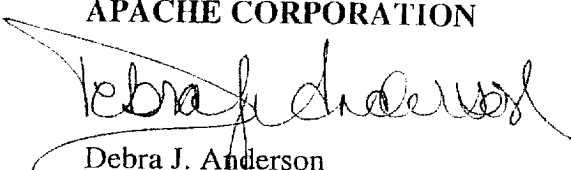
Offset Operators

**Re: Application to Downhole Commingle
H Corrigan No. 12
Penrose Skelly; Grayburg Pool (50350)
Eunice; San Andres Pool (24150)
Sec. 4, T22S - R37E
Lea County, New Mexico**

Attached please find a copy of an Application to Downhole Commingle production from the referenced pools in the H Corrigan # 12 well that Apache Corporation has filed with the New Mexico Oil Conservation Division. If you have an objection to this application, you must notify the OCD in writing within 20 days from the date of this letter. Thank you.

Sincerely,

APACHE CORPORATION



Debra J. Anderson
Sr. Engineering Technician

Attachments

cc: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**H Corrigan No. 12 Downhole Commingle Application
Offset Operators**

BEC Corporation
110 N Marienfeld, Suite 370
Midland, Texas 79702
Certified Rcpt. # Z-207-261-557

Oxy USA Inc
Box 50250
Midland, Texas 79710
Certified Receipt # Z-207-261-560

Chevron USA Inc
P O Box 1150
Midland, Texas 79702
Certified Receipt # Z-207-261-558

Titan Resources
500 W Texas, Suite 500
Midland, Texas 79701
Certified Receipt # Z-207-261-561

John H Hendrix Corporation
110 N. Marienfeld, Suite 400
Midland, Texas 79702-3040
Certified Rcpt. # Z-207-261-559

Zia Energy Incorporated
Box 2510
Hobbs, New Mexico 88241-2510
Certified Receipt # Z-207-261-562

Well: H Corrigan No. 12

Pool: Penrose Skelly; Grayburg

Location: 728' FNL & 410' FEL
Unit A, Section 4, Township 22S, Range 37E

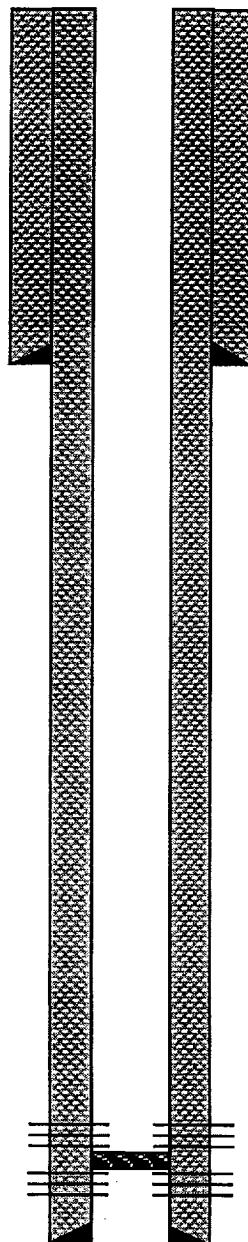
API#: 30-025-35136

Current Status: Active Oil
Penrose Skelly; Grayburg

Penrose Skelly; Grayburg Perfs:
3598-3612, 18-24, 36-40, 78-81,
84-92, 3712-38, 42-76 - 4" - 387 Holes

RBP @ 3800'

Eunice; San Andres Perfs:
3833, 38, 41, 43, 48, 50, 56, 59, 65, 93,
3902, 49, 91, 93, 95, 4000, 15, 19, 25, 28,
32, 35, 39, 41, 44, 48, 52, 56, 59, 74, 79,
92, 94, 96 - 4" - 34 Holes



Surface Casing: 12-1/4" Hole
8-5/8" 24# CSA 1085'
Cement w / 435 sx
Circulated to Surface

Production Casing: 7-7/8" Hole
5-1/2" 17# CSA 4200'
Cement w / 725 sx
Circulated to Surface

TD @ 4200'