



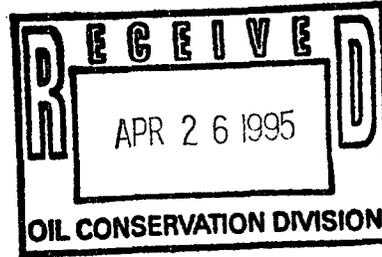
Texaco E & P

PO Box 730
Hobbs NM 88241-0730
505 393 7191

5-15-95

April 24, 1995

New Mexico Oil Conservation Division
2040 South Pacheco
P.O. Box 6429
Santa Fe, New Mexico 87505



Attention: Mr. David R. Catanach

Re: Exception to NMOCD Rule 303 (A), Order No. R-10033 :
Addition of Six Wells to Previous Division Order
Jalmat and Langlie Mattix Pools
Cooper Jal Unit
Well Numbers 408, 410, 411, 412, 413, and 415
T-24-S, R-36 & 37-E
Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval to add the six above captioned wells to the previous Division Order for downhole commingling of production from the Jalmat and Langlie Mattix Pools in the Cooper Jal Unit. The six said wells are located within the unit boundaries of the Cooper Jal Unit, Lea County, New Mexico. All of the said wells are proposed to be drilled to the base of the Langlie Mattix Pool and simultaneously completed in the Langlie Mattix and Jalmat Pools as downhole commingled producers.

During 1993, the New Mexico Oil Conservation Division approved a Texaco E & P Inc. proposal for certification of Enhanced Oil Recovery on the Cooper Jal Unit. In this proposal Texaco indicated that, to complete the enhanced oil recovery project, future locations would need to be drilled as downhole commingled wells. The six subject wells presented in this application are part of that project. Within the Cooper Jal Unit, the Jalmat and Langlie Mattix Pools have been concurrently waterflooded since October 1970. All produced fluids have entered a common production and injection facility since that time with no fluid compatibility problems.

The proposed downhole commingling will provide a more economical means of production. It will allow complete development of the productive capacity within the unit by allowing the two intervals to be waterflooded on concurrent 40-acre five spot patterns. This will extend the productive life of both intervals, thereby preventing waste. It is therefore requested by Texaco Exploration and Production Inc., to administratively downhole commingle the Jalmat and Langlie Mattix Pools within the said six wellbores. The commingling of additional wells in the Cooper Jal Unit was provided for in Division Order R-5590. Texaco requests that this action be performed by adding the six wells to the previously signed downhole commingling order, No. R-10033, dated December 10, 1993.

The subject wells meet all requirements set forth by Rule 303 (C) except Rule 303 (C) 1. a. (1), where the total volumes of water produced are above the set state wide limits. This issue was addressed and resolved during a NMOCD Hearing, Case No. 10879, on December 2, 1993. The ownership of both

zones are common (including working and royalty interests). The Jalmat and Langlie Mattix pools have been successfully commingled within the Cooper Jal Unit area with no incompatibility of reservoir fluids.

The following information is submitted as support for this request :

1. Location plat (Form C-102)
2. Well Data Sheets
3. Computation of Value for commingled production
4. Individual Well Casing Programs (Form C-101)
5. Average Production plots for the five 1994 infield producers.
6. Statement of notification to offset operators and USGS.

It is requested that the allocation of production for each zone be deferred until each well is placed on production. At such time, it is proposed to isolate the Jalmat interval in each well, to determine its productive rate prior to commingling. Production will then be allocated to the Langlie Mattix by subtracting the Jalmat production rate from the total stabilized production rate after downhole commingling the well.

Texaco Exploration and Production, Inc. believes that the administrative approval for downhole commingling and use of artificial lift on said wells will improve secondary recovery efforts and prolong the productive life of both zones, therefore preventing waste. If you have any questions concerning this application, please contact Darrell Carriger at (505) 397-0426.

Yours very truly,



Darrell J. Carriger
Engineer Assistant

attachments
Chrono

cc: Jerry Sexton/NMOCD/Hobbs, Offset Operators

ATTACHMENTS

LOCATION PLATS
(Form C-102)

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87414

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

Alan K Monte D

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease-4 copies
Fee Lease-3 copies

NOTICE OF LOCATION

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

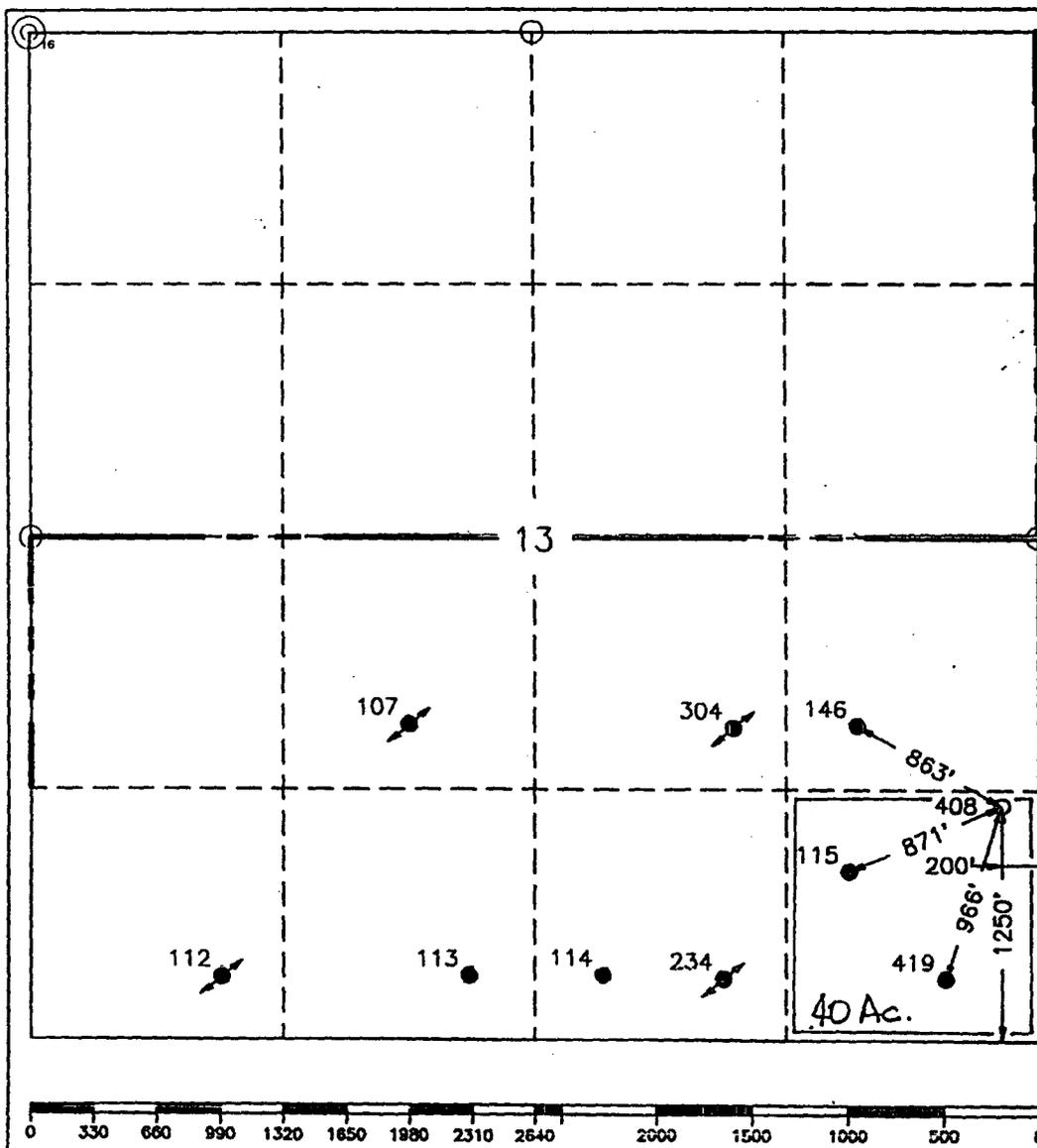
¹ API Number		² Pool Code 37240 ; 33820		³ Pool Name Jalmat; Langlie Mattix	
⁴ Property Code 10917		⁵ Property Name COOPER JAL UNIT			⁶ Well Number 408
⁷ UCRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3316

¹⁰ Surface Location									
¹¹ III or lot no. P	¹² Section 13	¹³ Township 24-S	¹⁴ Range 36-E	¹⁵ Int kn	¹⁶ Feet from the 1250'	¹⁷ North/South line South	¹⁸ Feet from the 200'	¹⁹ East/West line East	²⁰ County Lea

¹¹ Bottom Hole Location if Different From Surface									
¹¹ III or lot no.	¹² Section	¹³ Township	¹⁴ Range	¹⁵ Int kn	¹⁶ Feet from the	¹⁷ North/South line	¹⁸ Feet from the	¹⁹ East/West line	²⁰ County

²¹ Dedicated Acres 40	²² Joint or Infill	²³ Consolidation Code	²⁴ 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.



¹OPERATOR CERTIFICATION

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

Signature: *C. Wade Howard*

Printed Name: C. Wade Howard

Position: Engineer Technician

Company: Texaco Expl. & Prod. Inc.

Date: January 30, 1995

¹⁸SURVEYOR CERTIFICATION

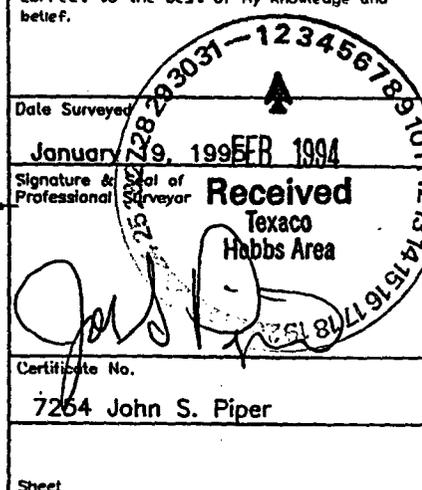
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: January 29, 1995

Signature & Seal of Professional Surveyor: *[Signature]*

Certificate No.: 7264 John S. Piper

Sheet



○ = Staked Location ● = Producing Well ↗ = Injection Well ◊ = Water Supply Well ◆ = Plugged & Abandon Well
 ⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
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OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

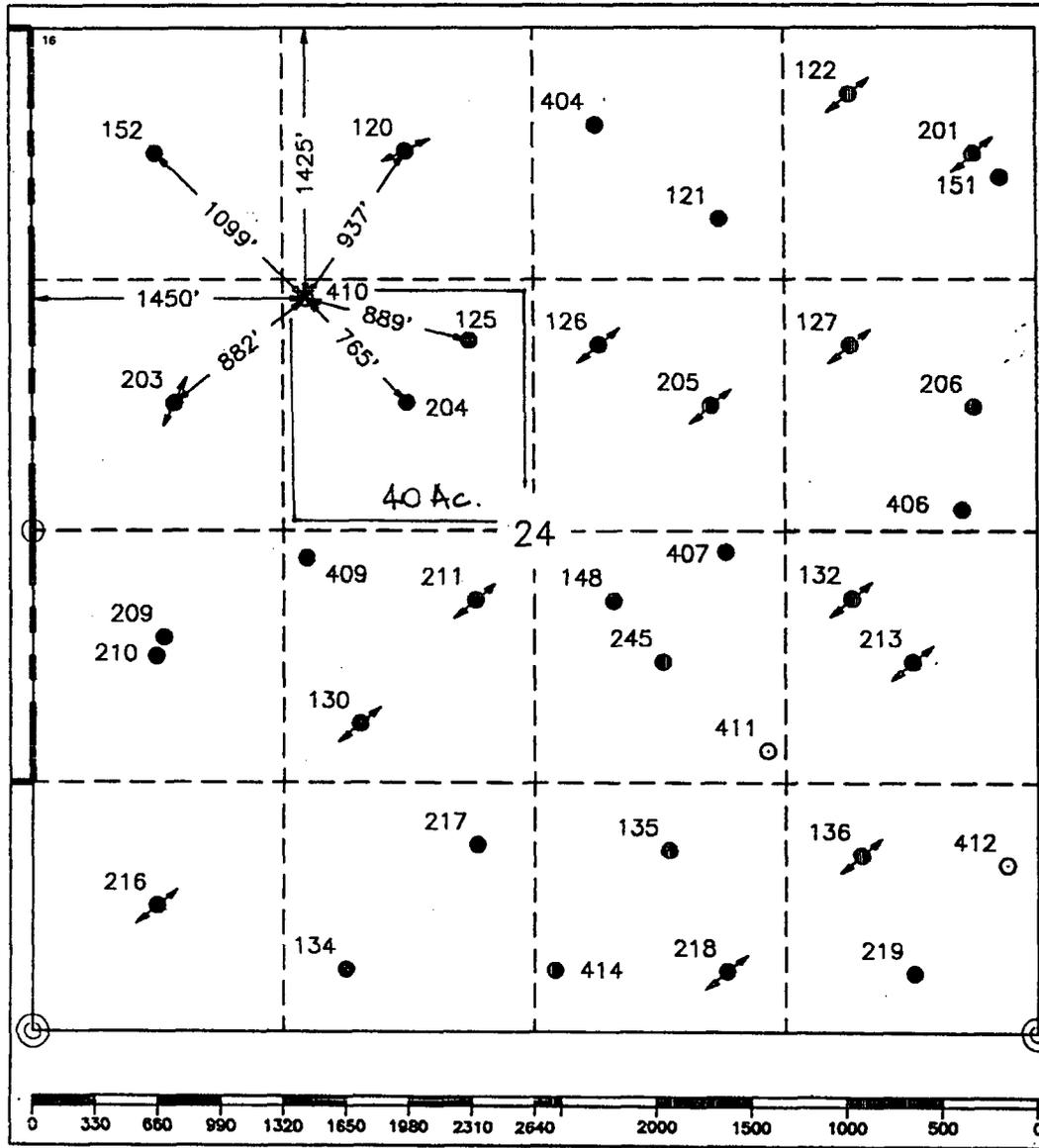
¹ API Number		² Pool Code		³ Pool Name	
37240 ; 33820		Jalmat; Langlie Mattix			
⁴ Property Code		⁵ Property Name			⁶ Well Number
10917		COOPER JAL UNIT			410
⁷ OCRID No.		⁸ Operator Name			⁹ Elevation
22351		TEXACO EXPLORATION & PRODUCTION, INC.			3324

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
F	24	24-S	36-E		1425'	North	1450'	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	⁷ County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
40			

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.

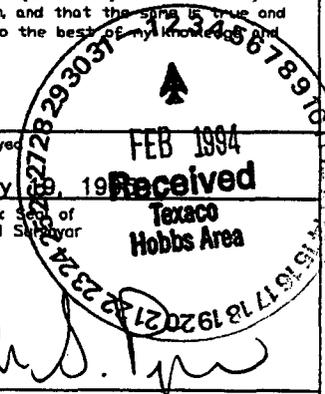


¹⁶OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
C. Wade Howard
Printed Name
C. Wade Howard
Position
Engineer Technician
Company
Texaco Expl. & Prod. Inc.
Date
January 30, 1995

¹⁷SURVEYOR 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 knowledge and belief.

Date Surveyed
January 29, 1995
Signature & Seal of Professional Surveyor
John S. Piper
Certificate No.
7254 John S. Piper



○ = Staked Location ● = Producing Well ● = Injection Well ⊕ = Water Supply Well ⊕ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

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State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
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DISTRICT I
 P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P. O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV
 P. O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
 PO Box 2088
 Santa Fe, NM 87504-2088

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

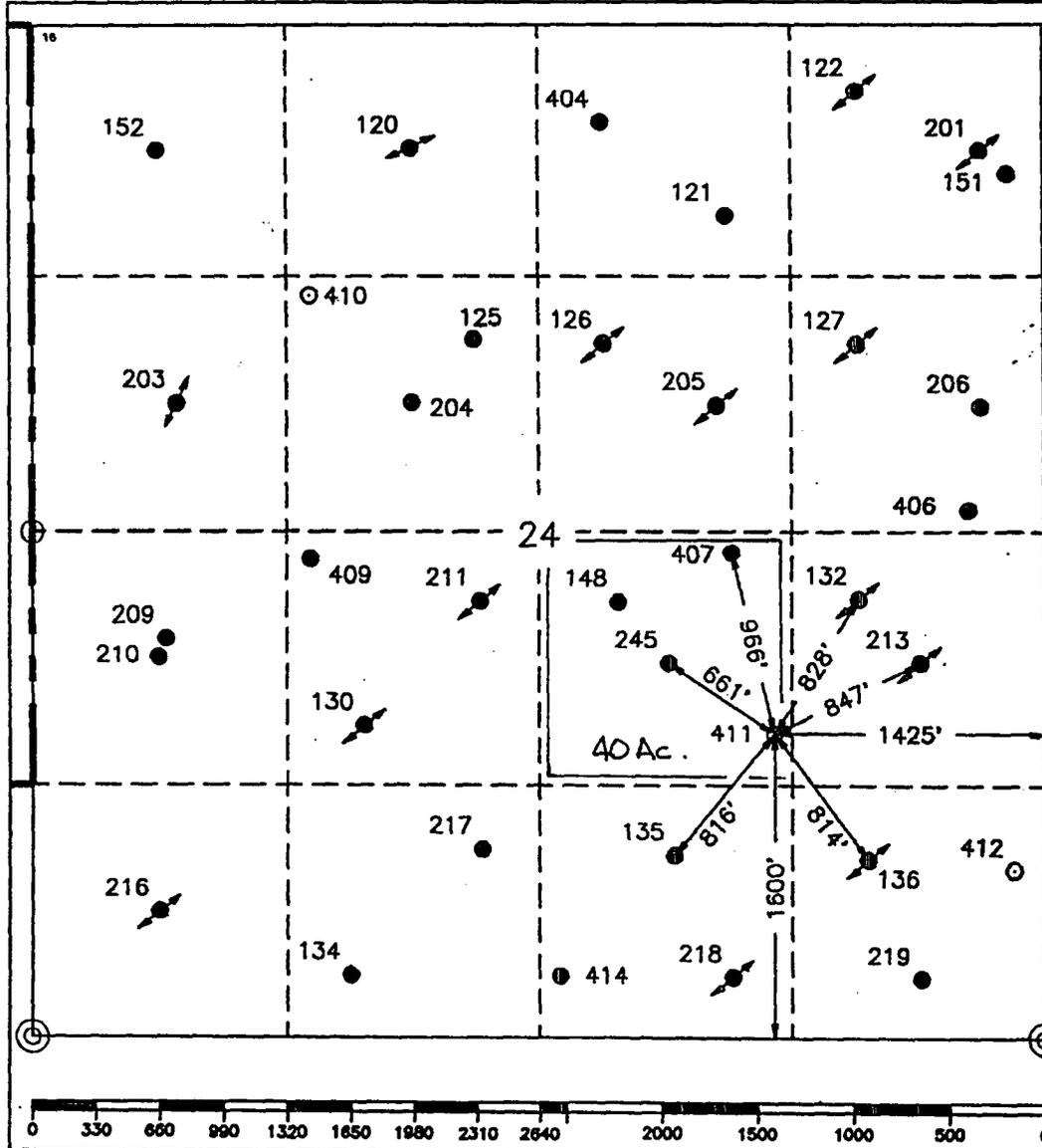
¹ API Number		² Pool Code		³ Pool Name	
37240 ; 33820		Jalmat; Langlie Mattix			
⁴ Property Code	⁵ Property Name			⁶ Well Number	
10917	COOPER JAL UNIT			411	
⁷ GRID No.	⁸ Operator Name			⁹ Elevation	
22351	TEXACO EXPLORATION & PRODUCTION, INC.			3314	

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
J	24	24-S	36-E		1600'	South	1425'	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	⁷ County

¹² Dedicated Acres	¹³ Joint or infill	¹⁴ Consolidation Code	¹⁵ Order No.
40			

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 OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>C. Wade Howard</i>
Printed Name	C. Wade Howard
Position	Engineer Technician
Company	Texaco Expl. & Prod. Inc.
Date	January 30, 1995
¹⁷ 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 are true and correct to the best of my knowledge and belief.	
Date Surveyed	January 19, 1995
Signature & Seal of Professional Surveyor	<i>John S. Piper</i>
Certificate No.	7254 John S. Piper
Sheet	

○ = Staked Location ● = Producing Well ↗ = Injection Well ◇ = Water Supply Well ◆ = Plugged & Abandon Well
 ⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found /4 Section Corner, 1" Iron Pipe & GLO B.C.

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

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Energy, Minerals and Natural Resources Department

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PO Box 2088
Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

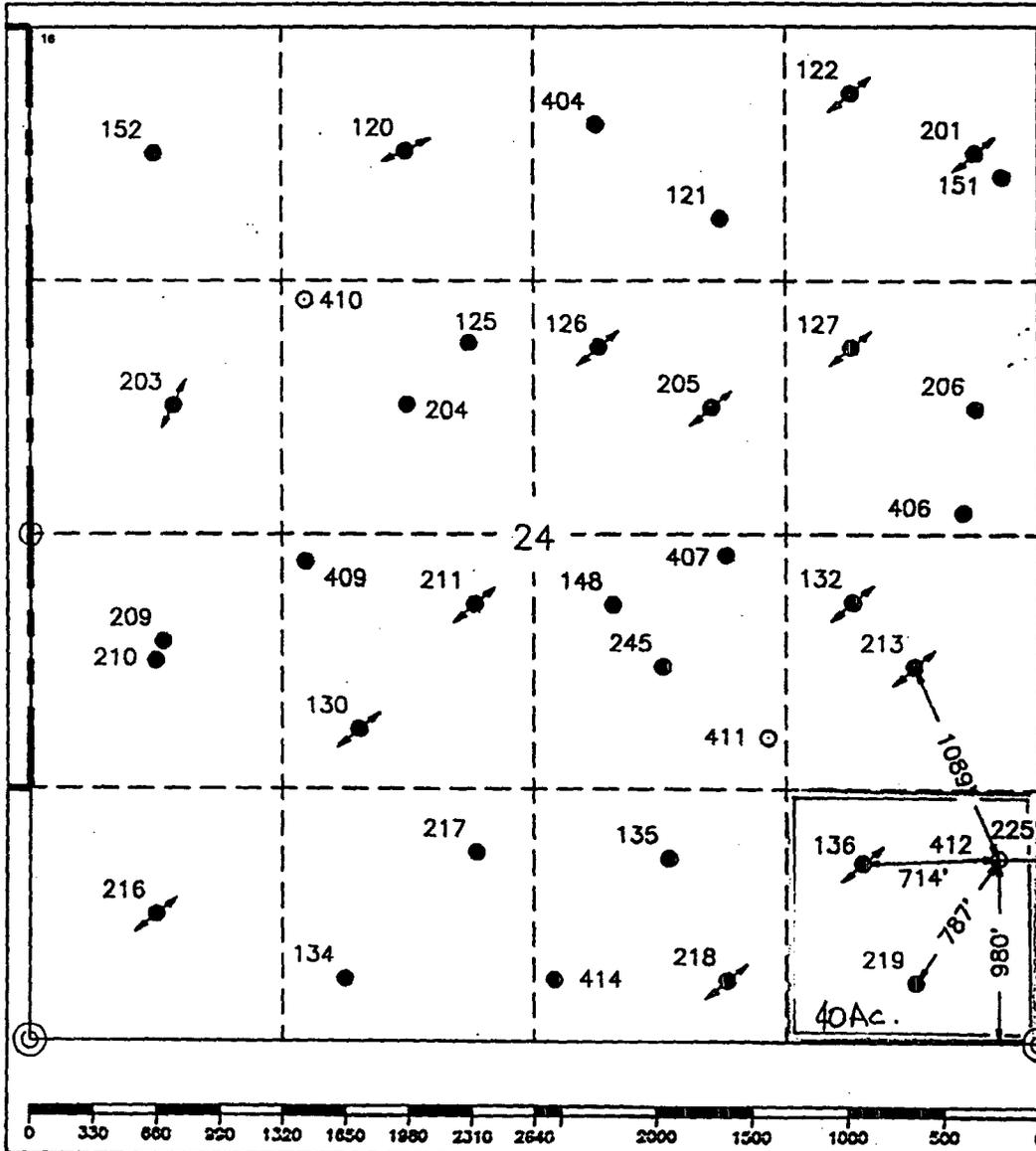
1 API Number		2 Pool Code		3 Pool Name	
37240; 33820		Jalmat; Langlie Mattix			
4 Property Code		5 Property Name			6 Well Number
10917		COOPER JAL UNIT			412
7 OGRID No.		8 Operator Name			9 Elevation
22351		TEXACO EXPLORATION & PRODUCTION, INC.			3295

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
P	24	24-S	36-E		980'	South	225'	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

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

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16 OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>C. Wade Howard</i>
Printed Name	C. Wade Howard
Position	Engineer Technician
Company	Texaco Expl. & Prod. Inc.
Date	January 30, 1995
17 SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed	January 19, 1995
Signature & Seal of Professional Surveyor	<i>John S. Piper</i>
Certificate No.	7254 John S. Piper
Sheet Sheet 8 of 8	

○ = Staked Location ● = Producing Well ↗ = Injection Well ⊙ = Water Supply Well ⊛ = Plugged & Abandon Well
 ⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

Hobbs
Monte

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-1C
Revised February 10, 1978

DISTRICT II
P. O. Drawer 00, Artesia, NM 88210

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

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DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

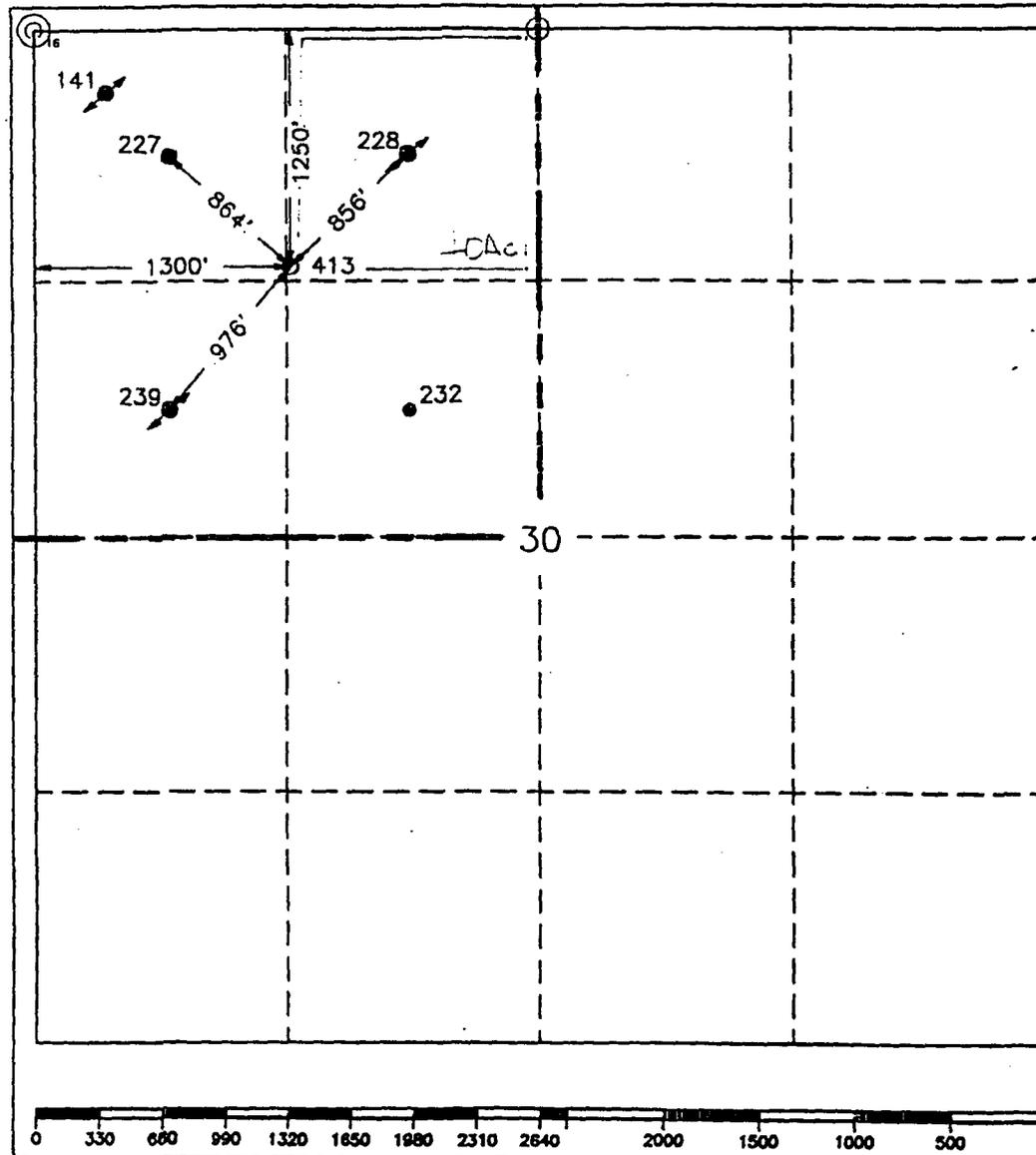
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name			
		37240 ; 33820		Jalmat; Langlie Mattix			
⁴ Property Code		⁵ Property Name			⁶ Well Number		
10917		COOPER JAL UNIT			413		
⁷ OGRID No.		⁸ Operator Name			⁹ Elevation		
22351		TEXACO EXPLORATION & PRODUCTION, INC.			3267		
¹⁰ Surface Location							
¹¹ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the North/South line	Feet from the East/West line	¹² County
C	30	24-S	37-E		1250'	1300'	Lea
¹¹ Bottom Hole Location if Different From Surface							
¹¹ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the North/South line	Feet from the East/West line	¹² County
¹³ Dedicated Acres		¹⁴ Joint or Infill		¹⁵ Consolidation Code		¹⁵ Order No.	
40							

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¹⁶ OPERATOR CERTIFICATION

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

Signature: *C. Wade Howard*
 Printed Name: C. Wade Howard
 Position: Engineer Technician
 Company: Texaco Expl. & Prod. Inc.
 Date: January 30, 1995

¹⁶ 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 knowledge and belief.

Date Surveyed: January 19, 1995
 Signature & Seal of Professional Surveyor: *John S. Piper*
 Certificate No.: 7254 John S. Piper

Sheet Sheet 8 of 8

○ = Staked Location ● = Producing Well ↗ = Injection Well ⊙ = Water Supply Well ⊕ = Plugged & Abandon Well
 ⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner 1" Iron Pipe & GLO B.C.

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

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Santa Fe, NM 87504-2088

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

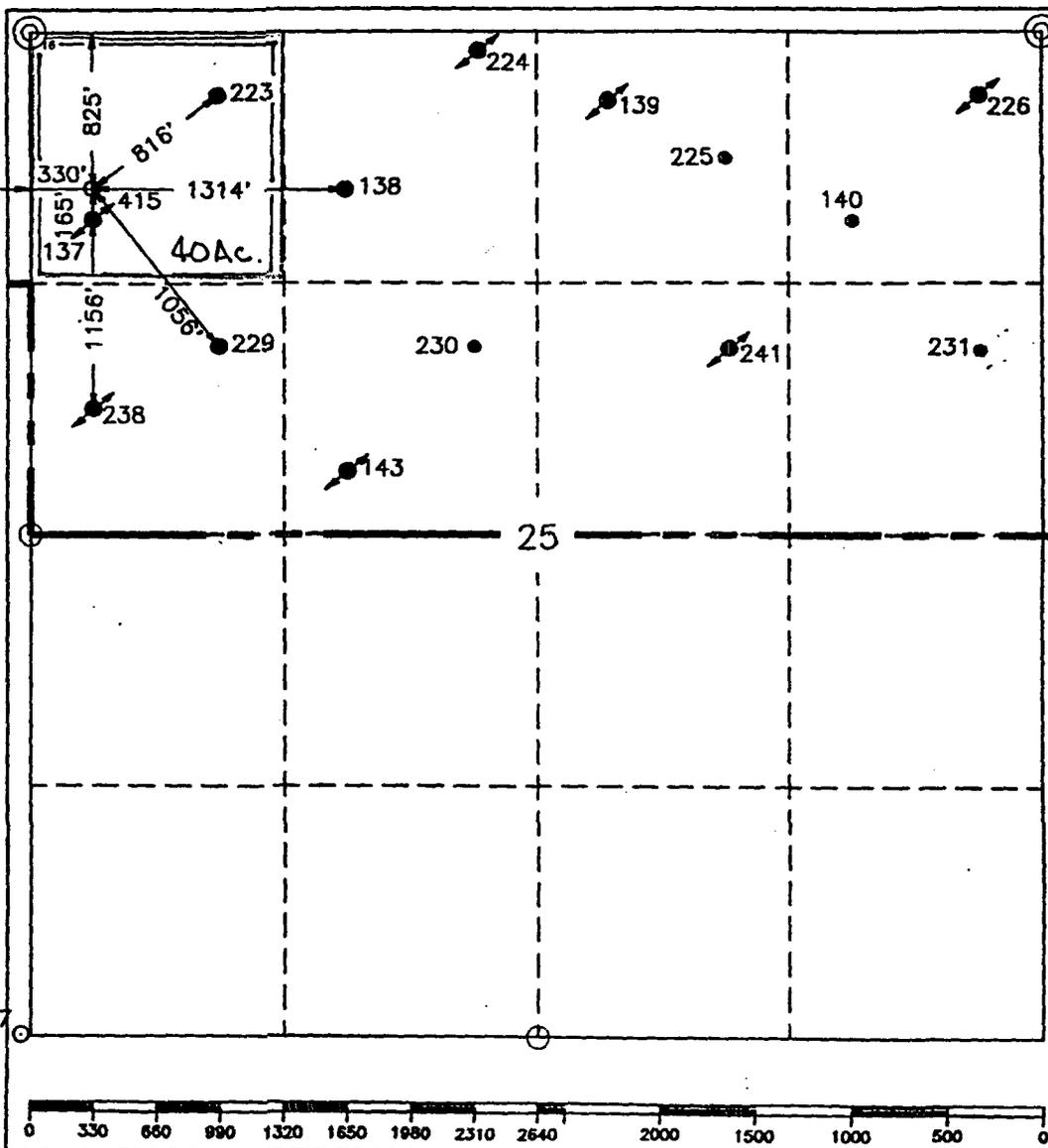
¹ API Number 30-025-32855		² Pool Code 37240 ; 33820		³ Pool Name Jalmat; Langlie Mattix	
⁴ Property Code 10917		⁵ Property Name COOPER JAL UNIT			⁶ Well Number 415
⁷ GRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3307

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
D	25	24-S	36-E		825'	North	330'	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	⁷ County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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Signature	<i>C. Wade Howard</i>
Printed Name	C. Wade Howard
Position	Engineer Technician
Company	Texaco Expl. & Prod. Inc.
Date	January 30, 1995
¹⁷ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat is derived 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 knowledge and belief.	
Date Surveyed	FEB 1994
Signature & Seal of Professional Surveyor	<i>John S. Piper</i> 1234567-1234567
Certificate No.	7254 John S. Piper
Sheet	

○ = Staked Location ● = Producing Well ⊕ = Injection Well ⊕ = Water Supply Well ⊕ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner

INDIVIDUAL WELL DATA SHEETS

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: **Cooper Jal Unit No. 408**
Proposed Location : Unit Letter P, 1250' FSL, 200' FEL of
Section 13, T-24-S, R-36-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	312 psia (Pres from # 208 PBU)	540 psia (Est. from #403 SI-FL)
Completed Interval:	3000'-3250' (250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467	0.8467
	(Both Commingled at Common Unit Battery)	

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: Cooper Jal Unit No. 410
Proposed Location : Unit Letter F, 1425' FNL, 1450' FWL of
Section 24, T-24-S, R-36-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	360 psia (Est. from #148 SI-FL)	425 psia (Est. from #402 SI-FL)
Completed Interval:	3000'-3250'(250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at Common Unit Battery)	0.8467

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: Cooper Jal Unit No. 411
Proposed Location : Unit Letter J, 1600' FSL, 1425' FEL of
Section 24, T-24-S, R-36-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	520 psia (Est. from #130 SI-FL)	425 psia (Est. from #402 SI-FL)
Completed Interval:	3000'-3250'(250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at Common Unit Battery)	0.8467

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: Cooper Jal Unit No. 412
Proposed Location : Unit Letter P, 980' FSL, 225' FEL of
Section 24, T-24-S, R-36-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	786 psia (Pres from # 230 PBU)	339 psia (Pres from #154 PBU)
Completed Interval:	3000'-3250'(250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at Common Unit Battery)	0.8467

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: Cooper Jal Unit No. 413
Proposed Location : Unit Letter C, 1250' FNL, 1300' FWL of
Section 30, T-24-S, R-37-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	312 psia (Pres from #208 PBU)	540 psia (Est. from #403 SI-FL)
Completed Interval:	3000'-3250'(250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at Common Unit Battery)	0.8467

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator : Texaco USA, Inc.
Address : P.O. Box 730 , Hobbs, New Mexico 88240
Lease and Well No.: **Cooper Jal Unit No. 415**
Proposed Location : Unit Letter D, 825' FNL, 330' FWL of
Section 25, T-24-S, R-36-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
BHP	312 psia (Pres from #208 PBU)	339 psia (Pres. from 154 PBU)
Completed Interval:	3000'-3250'(250') (Proposed Comp.)	3400'-3650' (250') (Proposed Comp.)
Proposed Prod. Method:	Rod Pumped	Rod Pumped
Current Test Date :	- NA -	- NA -
Oil	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at Common Unit Battery)	0.8467

NOTE : It is proposed to drill to Langlie Mattix, cement casing, perforate and fracture stimulate each zone independently, test the Jalmat Zone, obtain a stabilized production test, then commingle both zones and allocate production at that time.

COMPUTED VALUE OF DHC
PRODUCTION

AVERAGE ESTIMATED PRODUCTION BEFORE DHC
(DETERMINED FROM NORMALIZED 1994 NEW WELL PRODUCTION)

	<u>JALMAT</u>	<u>AVERAGE PRICE</u>	<u>INCOME</u>
Oil	40 BOPD	\$14.44/BO	\$577.60
Gas	25 MCFPD	\$ 2.04/MCF	\$ 51.00
	TOTAL SINGLE COMPLETION REVENUES		\$629.00

AVERAGE ESTIMATED PRODUCTION AFTER DHC
(DETERMINED FROM NORMALIZED 1994 NEW WELL PRODUCTION)

	<u>JALMAT</u>	<u>LANGLIE MATTIX</u>	<u>COMMINGLED</u>
Oil	40 BOPD	6 BOPD	46 BOPD
Gas	25 MCFPD	12 MCFPD	37 MCFPD
Water	200 BWPD	95 BWPD	295 BWPD

ESTIMATE OF VALUE OF DHC PRODUCED HYDROCARBONS

	<u>COMMINGLED</u>	<u>PRODUCT PRICE</u>	<u>REVENUE</u>
Oil	46 BOPD	\$14.44/BBL	\$ 664.00
Gas	37 MCFPD	\$2.04/MCF	<u>\$ 75.00</u>
	TOTAL ESTIMATED DAILY REVENUES		\$740.00

NET DIFFERENCE FROM DOWNHOLE COMMINGLING = \$ 111/DAY/WELL

NOTE : All produced volumes are currently commingled at the surface from both the Langlie Mattix and Jalmat Pools. Both pools oil gravities are 38 degree API Crudes and are classified as sour.

FORMULA FOR DETERMINING ALLOCATION OF PRODUCTION

OIL

J = JALMAT STABILIZED OIL PRODUCTION RATE, BOPD
T = TOTAL COMMINGLED OIL PRODUCTION RATE, BOPD

LANGLIE MATTIX PROD. = M = (T - J) , BOPD

GAS

J = JALMAT STABILIZED GAS PRODUCTION RATE, MCFPD
T = TOTAL COMMINGLED GAS PRODUCTION RATE, MCFPD

LANGLIE MATTIX PROD. = M = (T - J) , MCFPD

CASING PROGRAMS
(C-101s)

Hobbs
Monte

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

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-10
Revised February 10, 1990
Instructions on back
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 TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	³ API Number 30-D25-32851
		⁶ Well No. 408

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
P	13	24-S	36-E		1250	SOUTH	200	EAST	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 JALMAT - 37240 - 3382D					¹⁰ Proposed Pool 2 LANGLIE MATTX - 33820 - 3724D				

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3316'
¹⁶ Multiple No	¹⁷ Proposed Depth 3800'	¹⁸ Formation TNSL-YTS-7RV-QUN	¹⁹ Contractor	²⁰ Spud Date 4/1/95

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	400'	250 SACKS	SURFACE
7 7/8	5 1/2	15.5#	3800'	850 SACKS	SURFACE

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.

CEMENTING PROGRAM:
 SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).
 PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 350 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTX WILL BE FILED.

UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (SEE ATTACHED LETTER.)

NSL-348D

²³ I hereby certify that the rules and regulations 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: *C. Wade Howard*

Printed Name: C. Wade Howard

Title: Eng. Assistant

Date: 2/10/95

Telephone: 688-4606

OIL CONSERVATION DIVISION

Approved By: ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Title:

Approval Date: FEB 15 1995

Conditions of Approval:
Attached

Stamp: 28293031-1234567891011121314151617181920
MAR 1995
received
Texas
Hobbs, NM

Hobbs
mate

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-1

Revised February 10, 19

Instructions on ba

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DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

AMENDED REPOR

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

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
		³ API Number 30-025-3285
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 410

7 Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
F	24	24-S	36-E		1425	NORTH	1450	WEST	LEA

8 Proposed Bottom Hole Location If Different From Surface

UI 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 JALMAT - 37240-33820					¹⁰ Proposed Pool 2 LANGLIE MATTIX - 33820-37240				

¹¹ Work Type Code N	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3324'
¹⁶ Multiple No	¹⁷ Proposed Depth 3800'	¹⁸ Formation TNSL-YTS-TRV-QUN	¹⁹ Contractor	²⁰ Spud Date 4/1/95

21 Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	400'	250 SACKS	SURFACE
7 7/8	5 1/2	15.5#	3800'	850 SACKS	SURFACE

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.

CEMENTING PROGRAM:
SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).
PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 350 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.
REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTIX WILL BE FILED.
UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (SEE ATTACHED LETTER.)

NSL-3480

²³ I hereby certify that the rules and regulations 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 *C. Wade Howard*
Printed Name C. Wade Howard
Title Eng. Assistant
Date 2/10/95 Telephone 688-4606

OIL CONSERVATION DIVISION

Approved By **JERRY SEXTON**
DISTRICT I SUPERVISOR
Title: **Received**
Approval Date **FEB 15 1995**
Conditions of Approval: Attached

123456789101112131415161718192021222324252627282930

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Revised February 10, 1995
Instructions on be
Submit to Appropriate District Office
State Lease - 6 Copy
Fee Lease - 5 Copy

OIL CONSERVATION DIVISION

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

AMENDED REPORT

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

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	³ API Number 3D-D25-3285
		⁶ Well No. 411

⁷ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	24	24-S	36-E		1600	SOUTH	1425	EAST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

UI 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 JALMAT - 37240 3382D	¹⁰ Proposed Pool 2 LANGLIE MATTIX - 33820 3724D
------------------------------------------------------	---------------------------------------------------------------

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3314'
¹⁶ Multiple No	¹⁷ Proposed Depth 3800'	¹⁸ Formation TNSL-YTS-TRV-QUN	¹⁹ Contractor	²⁰ Spud Date 4/1/95

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	400'	250 SACKS	SURFACE
7 7/8	5 1/2	15.5#	3800'	850 SACKS	SURFACE

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.

CEMENTING PROGRAM:

SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).
PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 350 SACKS CLASS I (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTIX WILL BE FILED.

UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (SEE ATTACHED LETTER.)

NSL-3480

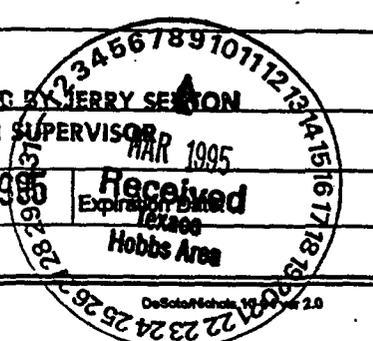
²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *C. Wade Howard*
Printed Name: C. Wade Howard
Title: Eng. Assistant
Date: 2/10/95
Telephone: 688-4606

OIL CONSERVATION DIVISION

Approved By: ORIGINAL SIGNER BY JERRY SEITON
Title: DISTRICT I SUPERVISOR
Approval Date: FEB 15 1995
Conditions of Approval: Attached

Received
Hobbs Area
MAR 1995



Wade Howard
Monte

OPER. OGRID NO. 22357 COMMISSION

PROPERTY NO. 10917

POOL CODE 37240

EFF. DATE 3/20/95

API NO. 30-025-32892

FORM APPROVED
Budget Bureau No. 1004-0138
Expires: December 31, 1991

Form 3160-3
(December 1990)

UNIT
DEPARTMENT
BUREAU OF

SUBMIT IN TRIPLICATE

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work DRILL DEEPEN
1b. Type of Well OIL WELL GAS WELL OTHER
SINGLE ZONE
MULTIPLE ZONE

5. Lease Designation and Serial No.
LC 063095

6. If Indian, Ailotee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
COOPER JAL UNIT

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

412
9. API Well No.

3. Address and Telephone No.
P.O. Box 3109, Midland Texas 79702 688-4606

10. Field and Pool, Exploratory Area
JALMAT/LANGLIE MATTX

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At Surface UNORTHODOX LOCATION: Subject to Like Approval By State
Unit Letter P : 980 Feet From The SOUTH Line and 225 Feet From The EAST Line
At proposed prod. zone SAME

11. SEC., T., R., M., or BLK. and Survey or Area
Sec. 24, Township 24-S, Range 36-E

14. Distance in Miles and Direction from Nearest Town or Post Office*
7 MILES NW OF JAL, NM

12. County or Parish LEA 13. State NM

15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drig. unit line, if any) 278'

16. No. of Acres in Lease 2581

17. No. of Acres Assigned To This Well 40

18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 714'

19. Proposed Depth 3900'

20. Rotary or Cable Tools ROTARY

21. Elevations (Show whether DF, RT, GR, etc.)
GR-3295' Captain Controlled Water Basin

22. Approx. Date Work Will Start* 4/95

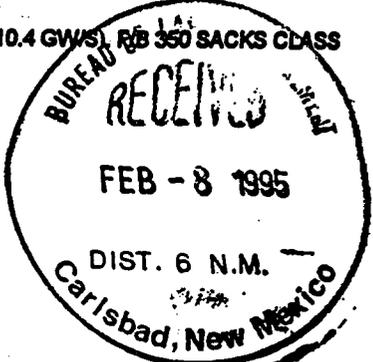
23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	WC50, 8 5/8	24#	400'	250 SACKS - CIRCULATE
7 7/8	WC-50, 5 1/2	15.8#	3900'	850 SACKS - CIRCULATE

CEMENTING PROGRAM:
SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).
PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S), RB 350 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

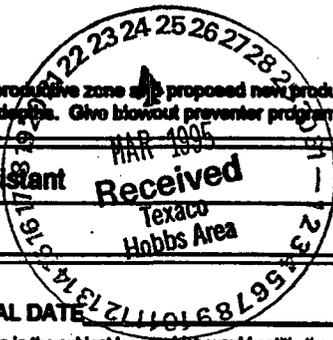
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.
REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTX WILL BE FILED.
UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (SEE ATTACHED LETTER.)

Approval Subject to
General Requirements and
Special Stipulations
Attached



In Above Space Describe Proposed Program: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any.

24. I hereby certify that the foregoing is true and correct
SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 2/7/95
TYPE OR PRINT NAME C. Wade Howard



PERMIT NO. _____ APPROVAL DATE _____
Application approval 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.
APPROVED BY Timothy P. O'Brien TITLE Acting AREA MANAGER DATE 3-13-95
CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes 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.

Form 3180-3
(December 1980)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0138
Expires: December 31, 1991

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

LC 032592-B

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

6. If Indian, Ailtee or Tribe Name

1a. Type of Work DRILL DEEPEN

7. If Unit or CA, Agreement Designation

1b. Type of Well SINGLE ZONE

OIL WELL GAS WELL OTHER MULTIPLE ZONE

8. Well Name and Number

COOPER JAL UNIT

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

413

3. Address and Telephone No.
P.O. Box 3109, Midland Texas 79702 688-4806

9. API Well No.

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At Surface
Unit Letter C : 1250 Feet From The NORTH Line and 1300 Feet From The WEST Line
At proposed prod. zone
SAME

10. Field and Pool, Exploratory Area

JALMAT/LANGLIE MATTIX

11. SEC., T., R., M., or BLK. and Survey or Area

Sec. 30, Township 24-S, Range 37-E

14. Distance in Miles and Direction from Nearest Town or Post Office*
5 MILES NW OF JAL, NM

12. County or Parish

LEA

13. State

NM

15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drig. unit line, if any) 1260'

16. No. of Acres in Lease 2561

17. No. of Acres Assigned To This Well 40

18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 855'

19. Proposed Depth 3775'

20. Rotary or Cable Tools

ROTARY

21. Elevations (Show whether DF, RT, GR, etc.)
GR-3267

22. Approx. Date Work Will Start*
4/1/85

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	WC60, 8 5/8	248	400'	260 SACKS - CIRCULATE
7 7/8	WC50, 5 1/2	15.50	3775'	850 SACKS - CIRCULATE

CEMENTING PROGRAM:

SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).

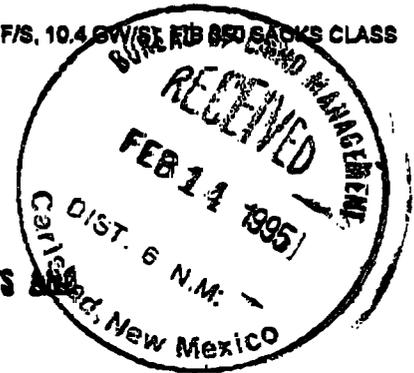
PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S) 850 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTIX WILL BE FILED.

UNORTHODOX LOCATION: EXCEPTION HAS BEEN APPLIED FOR. (SEE ATTACHED LETTER.)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED



In Above Space Describe Proposed Program: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any.

24. I hereby certify that the foregoing is true and correct

SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 2/10/85

TYPE OR PRINT NAME C. Wade Howard

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to these rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED BY [Signature] TITLE AREA MANAGER DATE 7/20/95

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes 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.

Novus monte
DISTRICT I
 P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
 P.O. Box Drawer DD, Artesia, NM 88211-0719
DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
 P.O. Box 2088, Santa Fe, NM 87504-2088

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-101
 Revised February 10, 1994
 Instructions on back
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AMENDED REPORT

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

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
		³ API Number 30-025-32855
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 415

⁷ Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
D	25	24-S	36-E		825	NORTH	330	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

UI 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 JALMAT - 37240					¹⁰ Proposed Pool 2 LANGLIE MATTIX - 33820				

¹¹ Work Type Code N	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3307
¹⁶ Multiple No	¹⁷ Proposed Depth 3800'	¹⁸ Formation TNSL-YTS-7RV-QUN	¹⁹ Contractor	²⁰ Spud Date 4/1/95

²¹ Proposed Casing and Cement Program

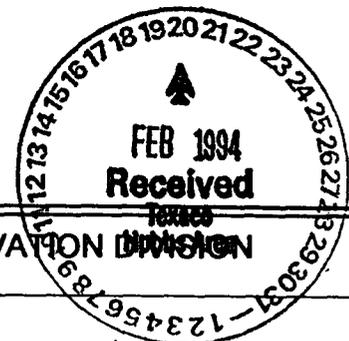
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	400'	250 SACKS	SURFACE
7 7/8	5 1/2	15.5#	3800'	850 SACKS	SURFACE

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.

CEMENTING PROGRAM:
 SURFACE CASING - 250 SACKS CLASS C w/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.31 GW/S).
 PRODUCTION CASING - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 350 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

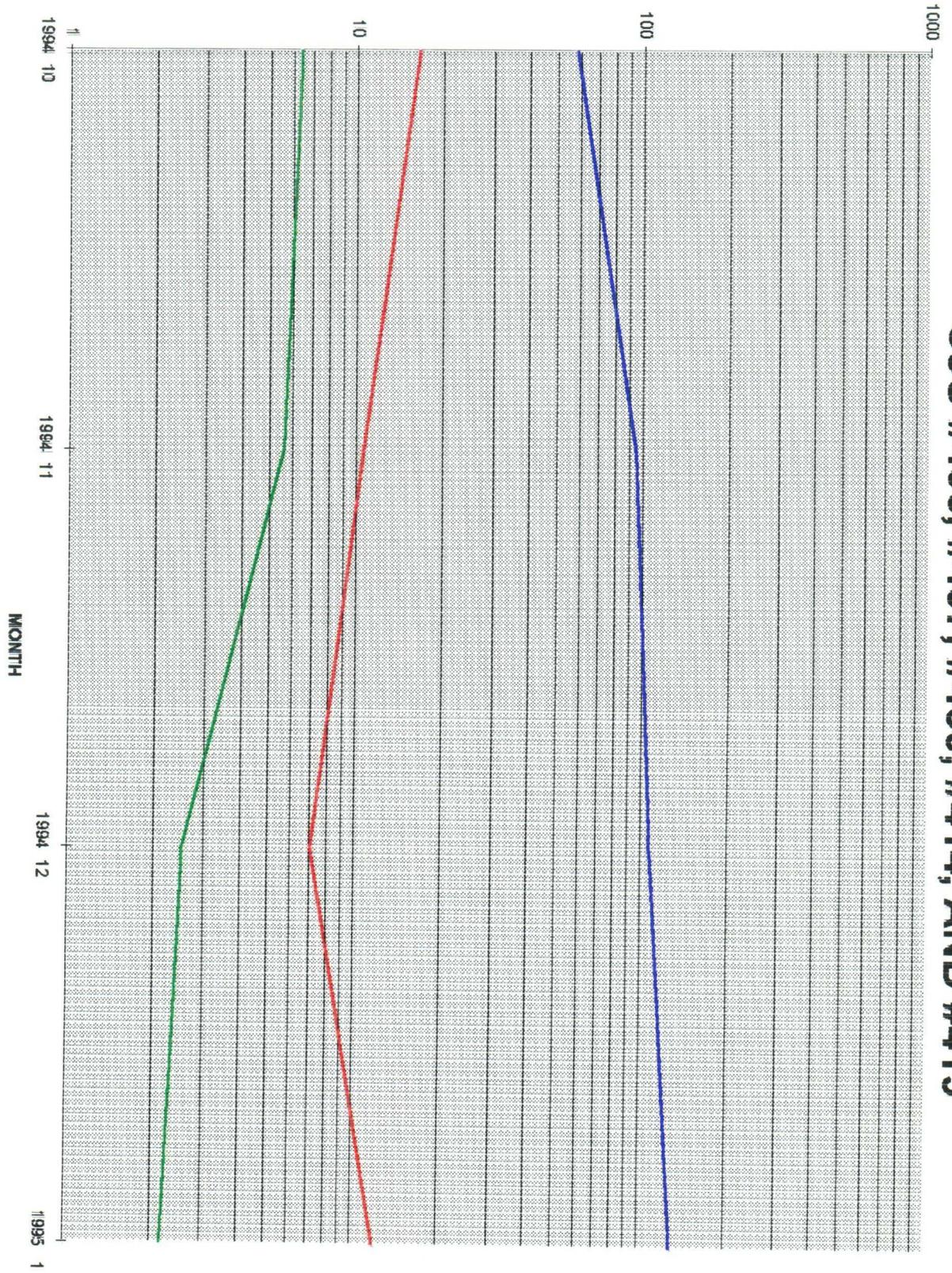
REQUEST TO DOWN-HOLE COMMINGLE THE JALMAT AND LANGLIE MATTIX WILL BE FILED.



²³ I hereby certify that the rules and regulations 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.		OIL CONSERVATION DIVISION	
Signature <i>C. Wade Howard</i>	Approved By [Signature]		
Printed Name C. Wade Howard	Title DISTRICT I SUPERVISOR	Approval Date FEB 14 1995	Expiration Date:
Title Eng. Assistant	Conditions of Approval: Attached <input type="checkbox"/>		
Date 2/10/95	Telephone 688-4606		

NORMALIZED PRODUCTION
PLOTS

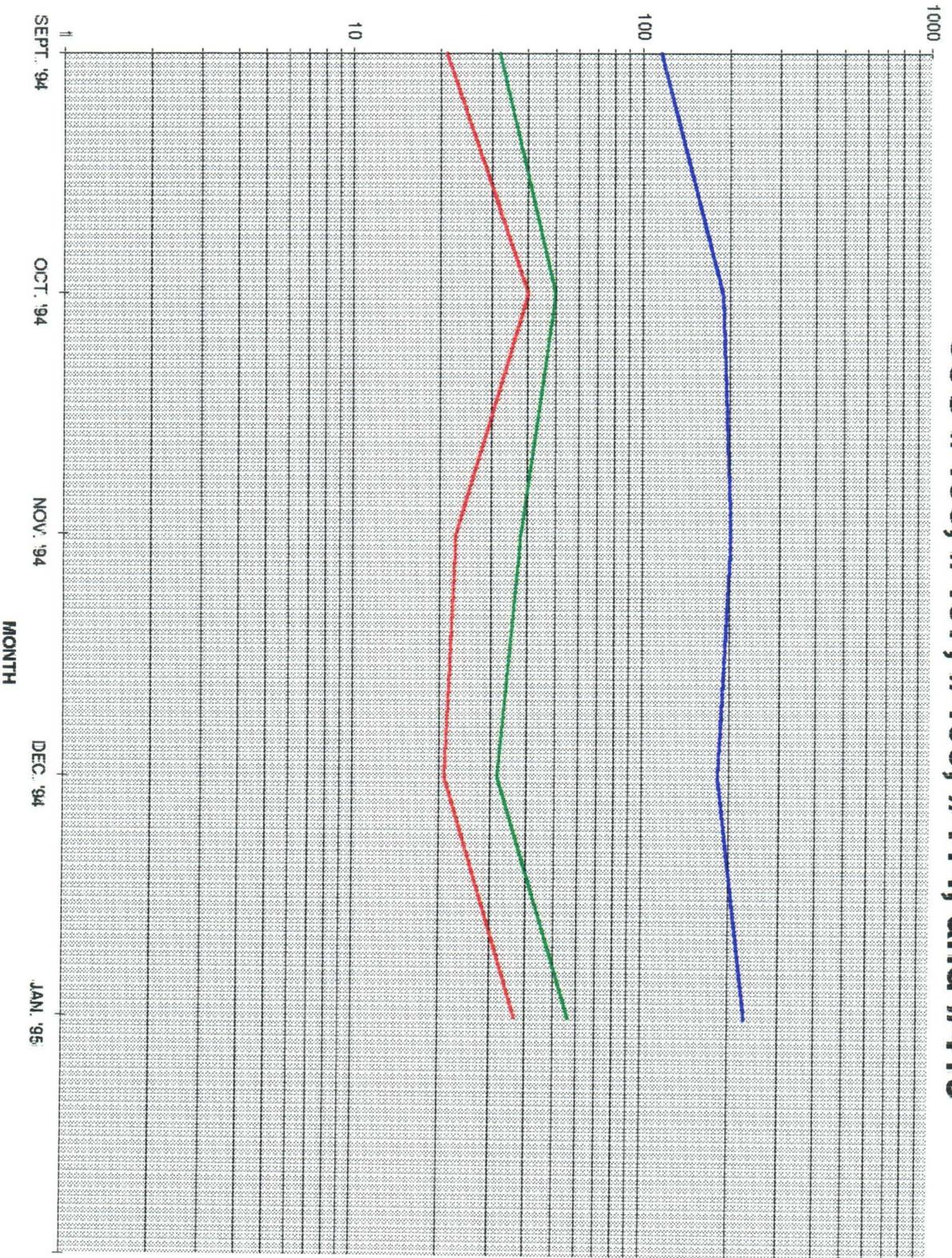
1994 NORMALIZED LANGLIE MATTIX INFIELD PRODUCERS CJU #406, #407, #409, #414, AND #419



— BOPD
— MCFPD
— BWFPD

1994 NORMALIZED JALMAT INFIELD PRODUCERS

CJU #406, #407, #409, #414, and #419



— BOPD
— MCFFPD
— BWMPD

STATEMENT OF NOTIFICATION

LIST OF 40-ACRE OFFSET OPERATORS TO PROPOSED WELLS

OPERATORS OTHER THAN TEXACO E & P :

408 : NONE

410 : NONE

411 : NONE

412 : NONE

413 : Conoco Inc., Oxy USA Inc.

415: Amoco Production Co., Meridian Oil Inc.

Z 106 611 724


**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, March 1993

Sent to OKT USA INC	
Street and No. PO BOX 50250	
P. O., State and ZIP Code MIDLAND, TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 727


**Receipt for
Certified Mail**

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PS Form 3800, March 1993

Sent to ARMCO PROD. CO	
Street and No. BOX 68	
P. O., State and ZIP Code HOUSTON, TX 78210	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 725


**Receipt for
Certified Mail**

No Insurance Coverage Provided
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Form 3800, March 1993

Sent to CARDO INC	
Street and No. 10 BEST DR STE 1004	
P. O., State and ZIP Code MIDLAND, TX 79705	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 726


**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Form 3800, March 1993

Sent to MERIDIAN OIL CO	
Street and No. RD BOX 57810	
P. O., State and ZIP Code MIDLAND, TX 79710-1810	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Offset Operators:

Please indicate your approval for our request as detailed in the attached package by signing the waiver form below. Please return the signed waiver in the enclosed self-addressed envelope.

Thank you for your cooperation in this matter.

WAIVER TO OBJECTION

TEXACO EXPLORATION AND PRODUCTION

**Application for
Exception to Rule 303-A
Downhole Commingle
Cooper Jal Unit #408, #410, #411, #412, #413, and #415
Jalmat and Langlie Mattix pools
Township 24S, Range 36E and 37E
Lea County, New Mexico**

I/We do hereby waive any objection to Texaco Exploration and Production Inc.'s request for NMOCD administrative approval to commingle the Jalmat and Langlie Mattix zones for the above captioned wells.

Signed: _____

Title: _____

Company: _____

Date: _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 6085
Order No. R-5590

APPLICATION OF RESERVE OIL, INC.
FOR DOWNHOLE COMMINGLING OR POOL
CONTRACTION AND EXTENSION, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 16, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets,

NOW, on this 22nd day of November, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Reserve Oil, Inc., seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in the wellbore of its Cooper Jal Unit Wells No. 115 in Unit P of Section 13 and Nos. 121, 134, and 209 in Units B, N, and L of Section 24, Township 24 South, Range 36 East, and No. 117 in Unit N of Section 18, and Nos. 150 and 221 in Units L and N of Section 19, Township 24 South, Range 37 East, Lea County, New Mexico, and an administrative procedure for such approval for future wells.

(3) That, in the alternative, applicant seeks the contraction of the vertical limits of the Jalmat Gas Pool underlying said Cooper Jal Unit Area by the deletion of the Yates and Seven Rivers formations therefrom and the extension of the vertical limits of the Langlie-Mattix Pool to include said formations.

(4) That the applicant has been conducting separate secondary recovery operations in the Jalmat and Langlie-Mattix Pools within said Cooper Jal Unit Area.

(5) That the proposed commingling will permit the applicant to achieve improved drainage in each of said projects which may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(6) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that any such commingled well is not shut-in for an extended period.

(7) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time any well downhole commingled under provisions of this order is shut-in for 7 consecutive days.

(8) That said Cooper Jal Unit secondary recovery projects have been in operation approximately 6 years and that separate production statistics have been maintained on each of said projects for this same period.

(9) That approval of the alternative application, in this case, would result in the loss of identity of production from the individual projects during their mid-life and should therefore be denied.

(10) That an administrative procedure should be established whereby additional Cooper Jal Unit Wells may be recompleted in such a manner as to permit the downhole commingling of Jalmat and Langlie-Mattix oil production therein.

(11) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Hobbs District Office of the Commission and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, Reserve Oil, Inc., is hereby authorized to commingle Jalmat oil and Langlie-Mattix oil production within the wellbore of its Cooper Jal Unit Wells No. 115 in Unit P of Section 13 and Nos. 121, 134, and 209 in Units B, N, and L of Section 24, Township 24 South, Range 36 East, and No. 117 in Unit N of Section 18, and Nos. 150 and 221 in Units L and N of Section 19, Township 24 South, Range 37 East, Lea County, New Mexico.

(2) That the supervisor of the Commission's district office at Hobbs is hereby authorized to grant approval for the downhole commingling of Jalmat oil and Langlie-Mattix oil production within the wellbore of additional wells within said Cooper Jal Unit.

(3) That the applicant shall consult with the supervisor of the Commission's district office at Hobbs and determine a formula for the allocation of production to each zone of any well downhole commingled under provisions of this order,

(4) That the downhole commingling authority granted by this order shall terminate upon abandonment of secondary recovery operations in the Jalmat and Langlie-Mattix Pools within said Cooper Jal Unit.

(5) That the application of Reserve Oil, Inc., for contraction of the vertical limits of the Jalmat Gas underlying said Cooper Jal Unit Area by the deletion of the Yates and Seven Rivers formations therefrom and the extension of the Langlie-Mattix Pool to include said formations is hereby denied.

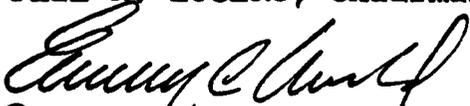
(6) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time any well commingled under authority granted by this order is shut-in for 7 consecutive days.

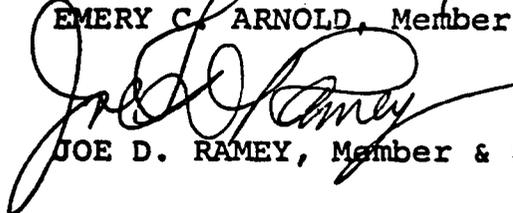
(7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary

S E A L

jr/

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. 10879
Order No. R-10033

APPLICATION OF TEXACO EXPLORATION AND
PRODUCTION INC. FOR AN EXCEPTION TO
DIVISION GENERAL RULE 303-A TO PERMIT
DOWNHOLE COMMINGLING, LEA COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on December 2, 1993, at Santa Fe, New Mexico, before Examiner Jim Morrow.

NOW, on this 10th day of December, 1993, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Texaco Exploration and Production, Inc. (Texaco), seeks approval to downhole commingle Jalmat and Langlie Mattix oil production within seven certain wells (two existing and five to be drilled) in its Cooper Jal Unit located in Sections 13 and 24, Township

to downhole commingle Jalmat and Langlie Mattix oil production within seven certain wells (two existing and five to be drilled) in its Cooper Jal Unit located in Sections 13 and 24, Township 24 South, Range 36 East and Section 19, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico. Locations for the seven wells are shown in Exhibit "A" attached.

(3) Offset operators were notified of Texaco's application as required by Division General Rules.

(4) Waterflood operations have been conducted on the Cooper Jal Unit since the early 1970's. Applicant recently received Division approval to redevelop the flood and apply for Enhanced Oil Recovery Act tax credit (Division Order R-9983).

(5) Ownership (both working interest and royalty interest) of the Jalmat and Langlie Mattix zones is common throughout the Cooper Jal Unit.

(6) The Jalmat Pool produces from the Tansill and Yates formations and the upper portion of the Seven Rivers. The Langlie Mattix produces from the lower portion of the Seven Rivers formation and the Queen.

(7) Waterflood operations for the Jalmat and Langlie Mattix intervals utilize common surface production and injection facilities. Both zones are commingled and open to injection in several injection wells. Texaco plans to equip the remaining injection wells in this manner as they redevelop the project.

(8) Fifteen producing wells in the flood are currently producing with downhole commingling of the Jalmat and Langlie Mattix intervals.

(9) Bottomhole pressure information submitted by the applicant indicates that pressure is approximately 450 psia in the lower formation (Langlie Mattix) and approximately 380 psia in the upper (Jalmat).

(10) No cross flow between formations is expected to occur due to the nearly equal bottomhole pressures and applicant's intent to keep all producing wells pumped down.

(11) No compatibility problems have been encountered and none are expected from mixing waters from the two producing intervals.

(12) Texaco proposes to allocate production in each well as follows:

- (a) Obtain a stabilized Jalmat test prior to commingling.
- (b) Obtain a stabilized test of both zones after commingling.
- (c) Calculate an allocation percentage for oil and a separate allocation percentage for gas for each well based on the above tests.

(13) Texaco's witness testified that they cannot economically justify the drilling of the five wells proposed in this application if downhole commingling is not authorized. The wells are needed to improve ultimate recovery of the project.

(14) No interested party appeared at the hearing and objected to the application.

(15) Approval of this application for downhole commingling will prevent waste and will not harm correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Texaco, is hereby authorized to downhole commingle Jalmat and Langlie Mattix oil and gas production within seven wells in its Cooper Jal Unit located in Sections 13 and 24, Township 24 South, Range 36 East and Section 19, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico. Locations for the seven wells are shown in Exhibit "A" attached.

(2) Allocation of commingled production for each well shall be determined using the method set out in Finding Paragraph (12) of this order.

(3) The applicant shall notify the Supervisor of the Hobbs district office prior to conducting the tests to be used in calculating allocation percentages. Complete results of all such tests shall be submitted to both the Hobbs district office and the Division office in Santa Fe.

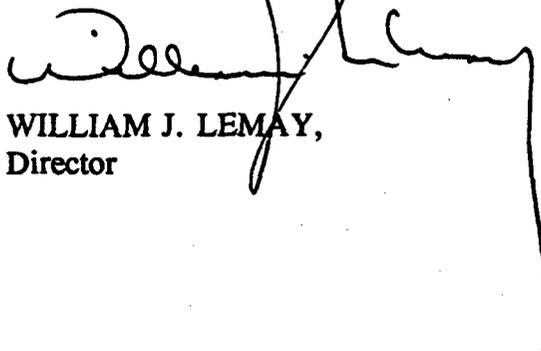
(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

-4-

Case No. 10879
Order No. R-10033

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "William J. Lemay", is written over the typed name and title. The signature is fluid and cursive, with a long vertical stroke extending downwards from the end of the name.

WILLIAM J. LEMAY,
Director

SEAL

dr/

TEXACO
COOPER JAL UNIT
LEA COUNTY, NEW MEXICO

PROPOSED DOWNHOLE COMMINGLING WELL LOCATIONS

<u>EXISTING WELLS</u>	<u>LOCATION</u>
No. 113	330' FSL and 2310' FWL (Unit M) of Sec. 13
No. 208	2310' FNL and 1650' FWL (Unit F) of Sec. 19
 <u>PROPOSED WELLS</u>	
No. 401	2400' FSL and 1130' FWL (Unit L) of Sec. 19,
No. 402	2150' FSL and 50' FWL (Unit L) of Sec. 19,
No. 403	150' FNL and 100' FWL (Unit D) of Sec. 19,
No. 404	510' FNL and 2310' FEL (Unit B) of Sec. 24,
No. 405	1055' FSL and 1385' FWL (Unit N) of Sec. 19.

EXHIBIT "A"
Case No. 10879
Order No. R-10033

DHC-1131



OIL CONSERVATION DIVISION
RECEIVED

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

'95 NOV 27 AM 8 52

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

11/20/95

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

GOVERNOR

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____ X _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

<i>Texaco E&P Inc</i>	<i>Cooper Jal Unit</i>	<i># 128-E</i>	<i>19-24s-37e</i>
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed