



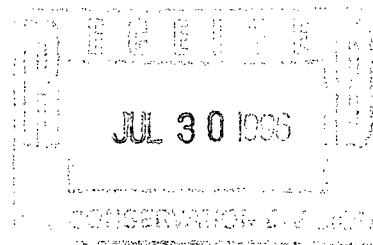
Texaco E & P

205 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

July 29, 1996

New Mexico Oil Conservation Commission
2040 South Pacheco
Santa Fe, New Mexico 87505
Attention: Mr. David R. Catanach

Re: Exception to NMOCD Rule 303 (A).
Application to Downhole Commingle
Jalmat/Langlie Mattix Pool
Cooper Jal Unit #420, #421, #422
Unit Letter G, J, N; Sec. 24, 24, 19; 23S, 37E
Lea County, New Mexico



Mr. Catanach,

Texaco Exploration & Production Inc., respectfully requests administrative approval to downhole commingle the Jalmat and the Langlie Mattix Pool within the subject wellbore. Currently, the wells are in the process of being drilled and completed. Notification to offset operators is not required give the fact that Texaco offsets all of the wells.

The proposed downhole commingling will provide a more economical means of production. It will allow complete development of the productive capacity on the subject lease by allowing both intervals to be artificially lifted simultaneously. This will extend the productive life of both completions, thereby preventing waste.

The subject wells meet all of requirements as set forth by Rule 303 (C). It should be noted that all produced fluids from other downhole commingled wells have entered a common production facility with no fluid compatibility problems.

It is requested that the allocation of production for each zone be deferred until a stabilized production rate is establish. Production will then be allocated to the Langlie Mattix and the Jalmat Pool using the subtraction method provided in this packet. If you have any questions concerning this application, please contact Kirk W. Spilman at (505)397-0425.

Yours very truly,

Kirk W. Spilman
Eunice Area Engineer

attachments

cc: Jerry Sexton/NMOCD/Hobbs

ATTACHMENTS

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

TEXACO EXPLORATION & PRODUCTION

205 E. BENDER HOBBS NM 88240

Operator

Address

COOPER JAL UNIT

#420

G-24-24S-37E

LEA

Lease

Well No.

Unit, Sec - Twp - Rge

County

OGRID NO. 022351 Property Code 10917 API NO. 30-025-33458 Federal ☐ State ☐ (land/or) Fee ☒ Spacing Unit Lease Types: (check 1 or more)

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	JALMAT (33820)		LANGLIE MATTIX (37240)
2. Top and Bottom of Pay Section (Perforations)	NOT YET COMPLETED		NOT YET COMPLETED
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL		ARTIFICIAL
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	NA		NA
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original			
6. Oil Gravity ([°] API) or Gas BTU Content	36.7		36.7
7. Producing or Shut-In?	NA		NA
Production Marginal? (yes or no)	YES		YES
* If Shut-In, give date and oil/gas/water rates of last production	Date: Rates: NA	Date: Rates:	Date: Rates: NA
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S). DHC-1131

16. 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 all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Kirk W. Spilman TITLE PETROLEUM ENGINEER DATE 7-29-96

TYPE OR PRINT NAME KIRK W. SPILMAN TELEPHONE NO. (505) 397-0425

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator TEXACO EXPLORATION & PRODUCTION

Address 205 E. BENDER HOBBS NM 88240

Operator

Lease COOPER JAL UNIT

Well No. #421

Unit Ltr. - Sec - Twp - Rge J-24-24S-37E

County LEA

Lease

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 022351 Property Code 10917 API NO. 30-025-33459

Federal ☐ State ☐ Landlord Fee ☒

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	JALMAT (33820)		LANGLIE MATTIX (37240)
2. Top and Bottom of Pay Section (Perforations)	NOT YET COMPLETED		NOT YET COMPLETED
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL		ARTIFICIAL
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) NA b. (Original)	a. b.	a. NA b.
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	36.7		36.7
7. Producing or Shut-In?	NA		NA
Production Marginal? (yes or no)	YES		YES
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: NA	Date: Rates:	Date: Rates: NA
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No

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- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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SIGNATURE Kirk W. Spilman TITLE PETROLEUM ENGINEER DATE 7-29-96

TYPE OR PRINT NAME KIRK W. SPILMAN TELEPHONE NO. (505) 397-0425

EXHIBIT "B" - CASE NO. 11353, ORDER NO. R-10470-A

DISTRICT I

P.O. Box 1880, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator TEXACO EXPLORATION & PRODUCTION 205 E. BENDER HOBBS NM 88240
Address
Lease COOPER JAL UNIT #422 N-19-24S-37E LEA
Well No. Unit Ltr. - Sec - Twp - Rge County
OGRID NO. 022351 Property Code 10917 API NO. 30-025-33490 Federal , State , (and/or) Fee ☒

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	JALMAT (33820)		LANGLIE MATTIX (37240)
2. Top and Bottom of Pay Section (Perforations)	NOT YET COMPLETED		NOT YET COMPLETED
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL		ARTIFICIAL
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) NA b. (Original)	a. b.	a. NA b.
6. Oil Gravity (°API) or Gas BTU Content	36.7		36.7
7. Producing or Shut-In?	NA		NA
Production Marginal? (yes or no)	YES		YES
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates: NA	Date: Rates:	Date: Rates: NA
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

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- Notification list of working, overriding, and royalty interests for uncommon interest cases.
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SIGNATURE Kirk W. Spilman TITLE PETROLEUM ENGINEER DATE 7-29-96

TYPE OR PRINT NAME KIRK W. SPILMAN TELEPHONE NO. (505) 397-0425

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

Form C-102

Revised February 10, 1994

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33458	² Pool Code 33820	³ Pool Name JALMAT; TAN-YATES-7-RVRS (OIL)
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 420
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3313'

¹⁰ Surface Location

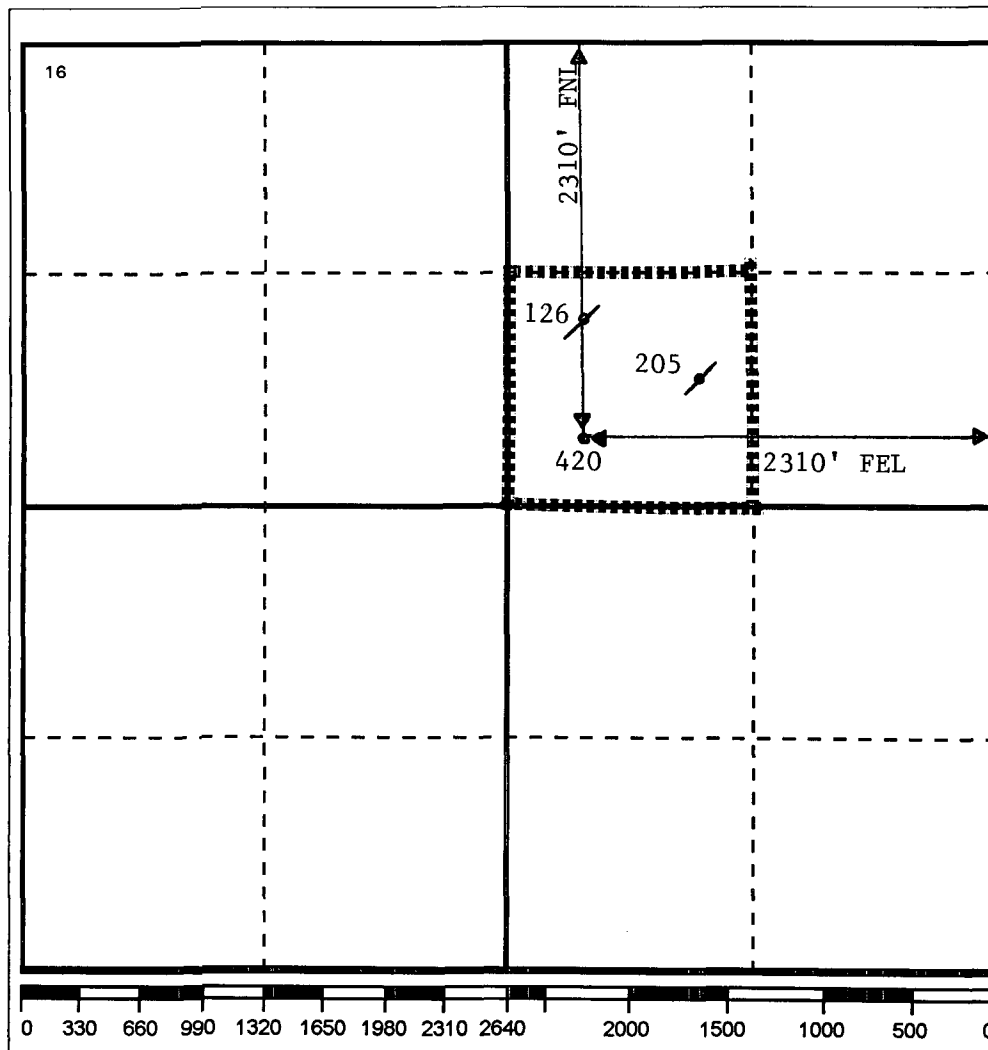
Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
G	24	24-S	36-E		2310	NORTH	2310	EAST	LEA

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 40	¹³ Joint or Infill No	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



17 OPERATOR CERTIFICATION

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

Signature

Printed Name

Paula S. Ives

Position

Engineering Assistant

Date

7/25/96

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

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

Form C-102

Revised February 10, 1994

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33458	² Pool Code 37240	³ Pool Name LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 420
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3313'

¹⁰ Surface Location

Ul or lot no. G	Section 24	Township 24-S	Range 36-E	Lot.Idn	Feet From The 2310	North/South Line NORTH	Feet From The 2310	East/West Line EAST	County LEA
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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 No	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------------	----------------------------------	-------------------------

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<div><div>16</div><div>2310' FNL</div><div>126</div><div>205</div><div>420</div><div>2310' FEL</div></div>	<div><div>17 OPERATOR CERTIFICATION</div><div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div><div>Signature </div><div>Printed Name Paula S. Ives</div><div>Position Engineering Assistant</div><div>Date 7/25/96</div></div> <div><div>18 SURVEYOR CERTIFICATION</div><div>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.</div><div>Date Surveyed</div><div>Signature & Seal of Professional Surveyor</div><div>Certificate No.</div></div>
--	--

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

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☐ AMENDED REPORT**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33459	² Pool Code 33820	³ Pool Name JALMAT;TAN-YATES-7-RVRS (OIL)
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁶ Well No. 421
		⁹ Elevation 3318'

¹⁰ Surface Location

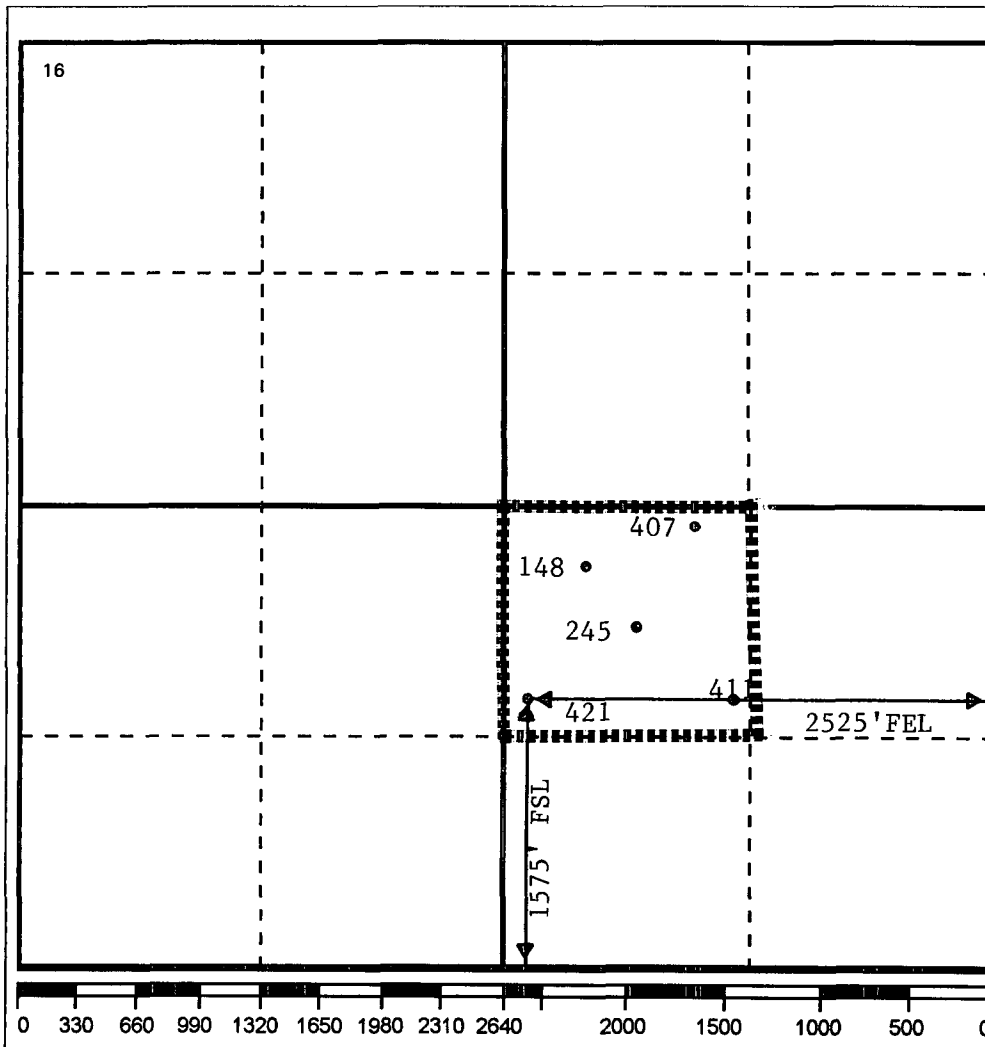
Ul or lot no. J	Section 24	Township 24-S	Range 36-E	Lot.Idn	Feet From The 1575	North/South Line SOUTH	Feet From The 2525	East/West Line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

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 No	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

**17 OPERATOR CERTIFICATION**

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

Signature

Printed Name

Paula S. Ives

Position

Engineering Assistant

Date

7/26/96

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

DISTRICT I

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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

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☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-33459	² Pool Code 37240	³ Pool Name LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 421
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3318'

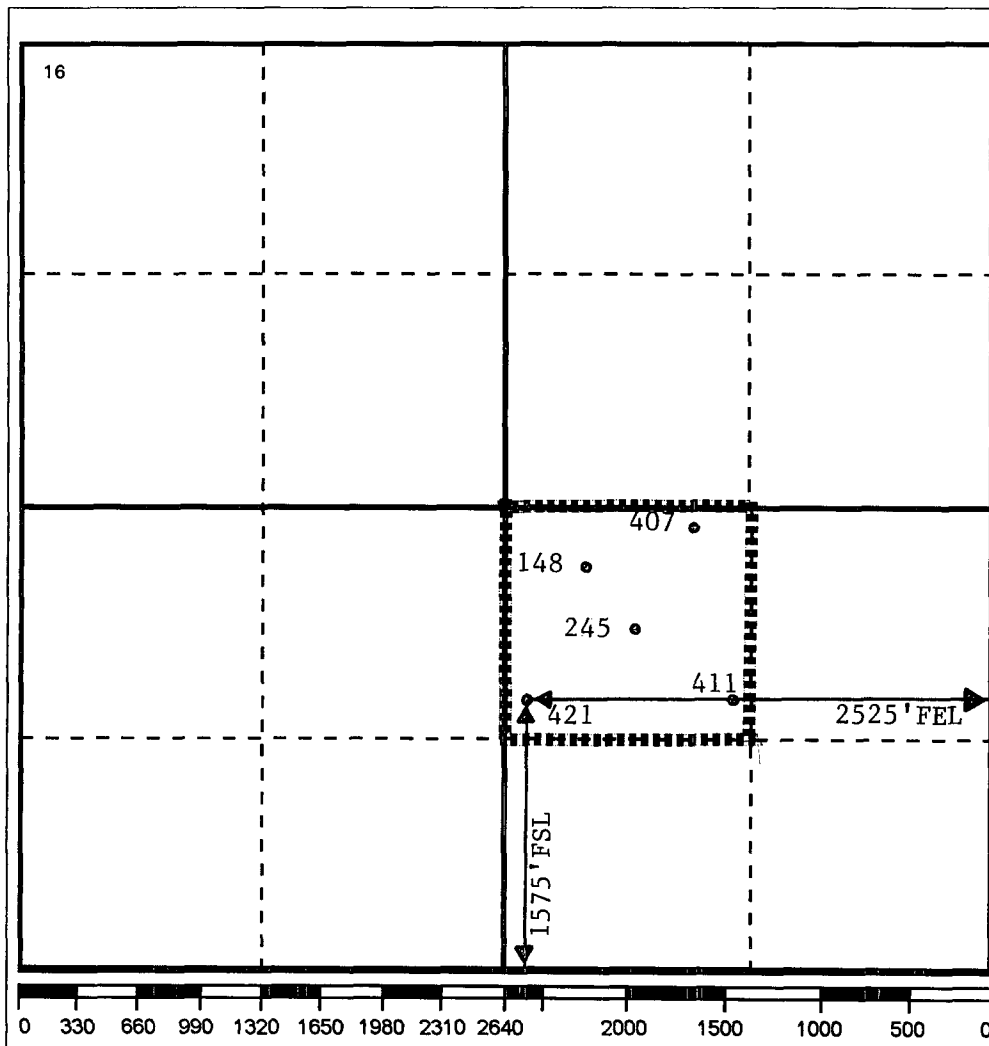
¹⁰ Surface Location

Ul or lot no. J	Section 24	Township 24-S	Range 36-E	Lot.Idn	Feet From The 1575	North/South Line SOUTH	Feet From The 2525	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
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Signature

Printed Name

Paula S. Ives

Position

Engineering Assistant

Date

7/26/96

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Certificate No.

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State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33490	² Pool Code 33820	³ Pool Name JALMAT; TAN-YATES-7-RVRS(OIL)
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 422
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation GR-3276

¹⁰ Surface Location

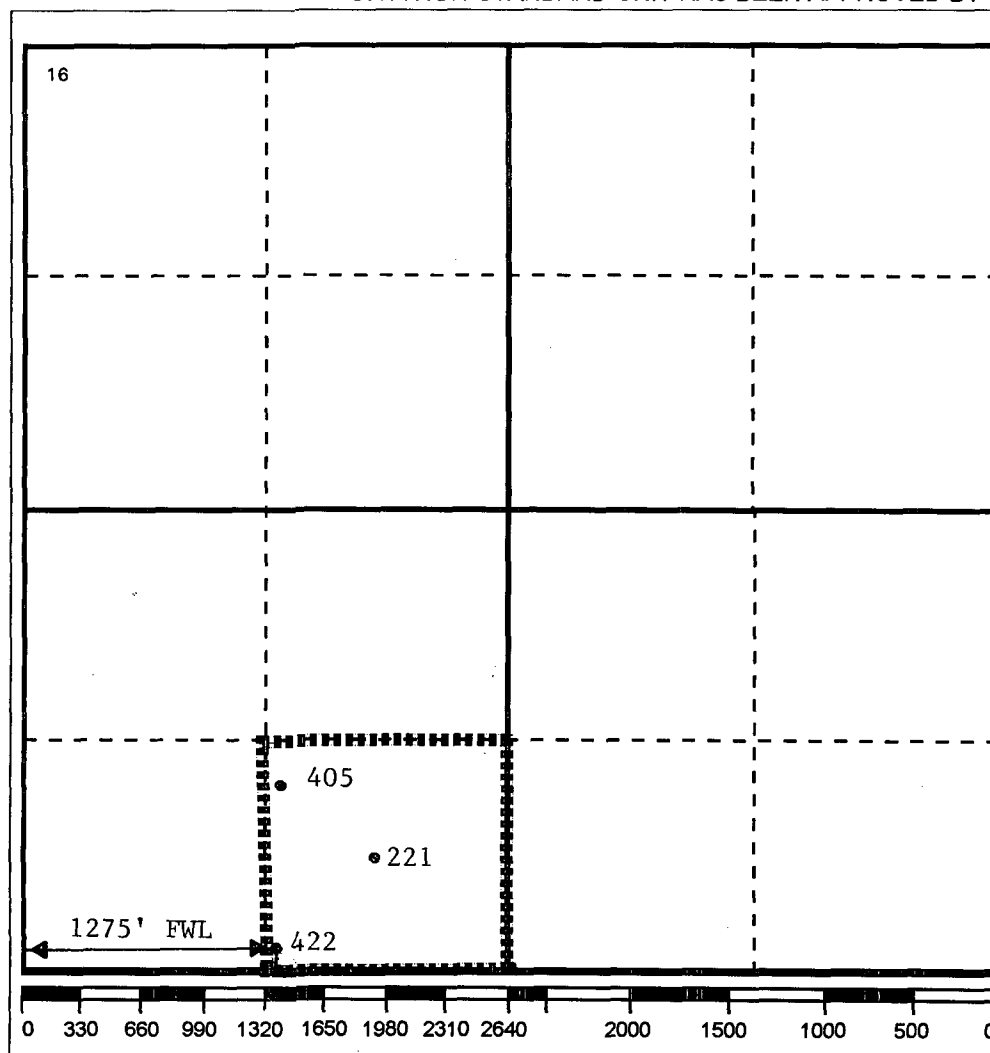
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
N	19	24-S	37-E		125	SOUTH	1275	WEST	LEA

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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I hereby certify that the information
contained herein is true and complete to the
best of my knowledge and belief

Signature

Printed Name

Paula S. Ives

Position

Engineering Assistant

Date

7/26/96

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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

Signature & Seal of
Professional Surveyor

Certificate No.

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

Form C-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33490	² Pool Code 37240	³ Pool Name LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG
⁴ Property Code 10917	⁵ Property Name COOPER JAL UNIT	⁶ Well No. 422
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation GR-3276

¹⁰ Surface Location

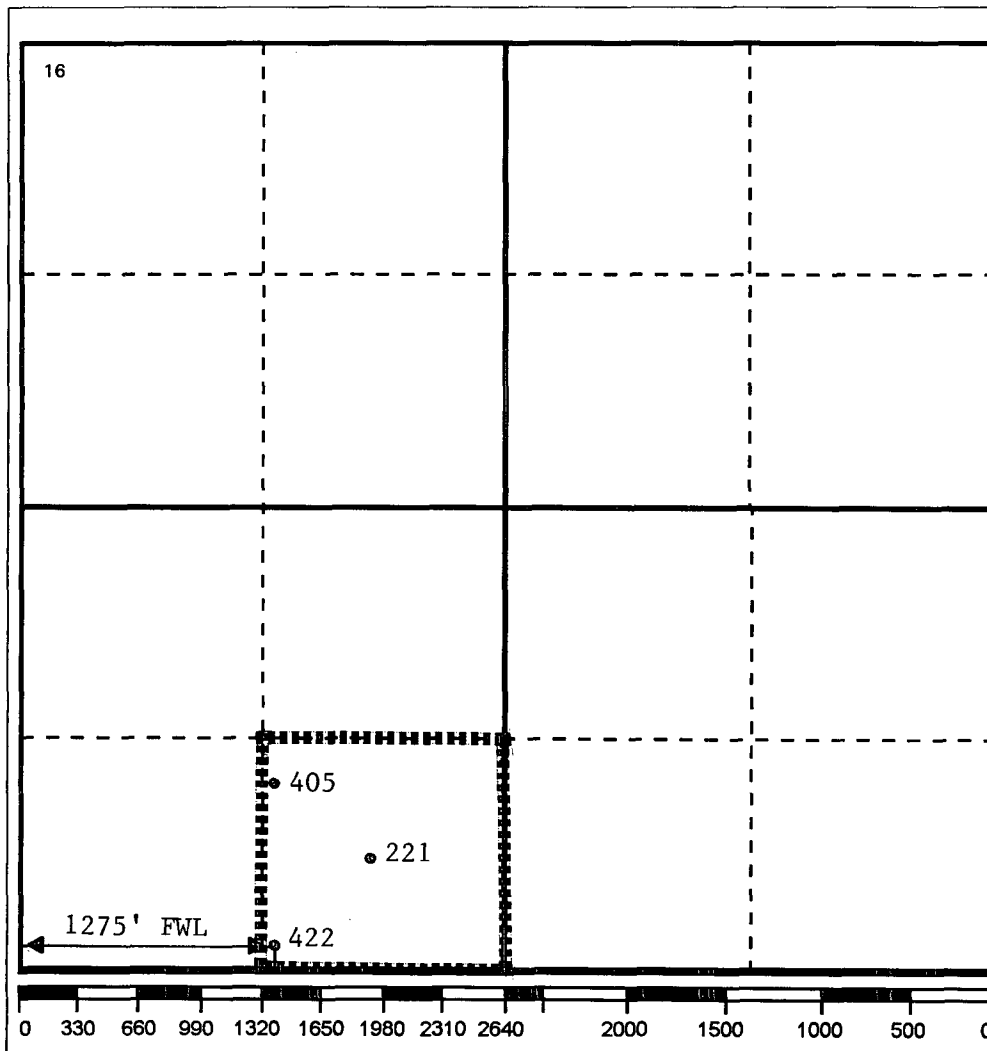
Ul or lot no. N	Section 19	Township 24-S	Range 37-E	Lot.Idn	Feet From The 125	North/South Line SOUTH	Feet From The 1275	East/West Line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

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 No	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



17 OPERATOR CERTIFICATION

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

Signature

Printed Name

Paula S. Ives

Position

Engineering Assistant

Date

7/26/96

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

FORMULA FOR DETERMINING ALLOCATION OF PRODUCTION

OIL

X = JALMAT STABILIZED OIL PRODUCTION RATE, BOPD

T = TOTAL COMMINGLED, STABILIZED OIL PRODUCTION RATE, BOPD

LANGLIE MATTIX PROD. = D = (T - X) , BOPD

GAS

X = JALMAT STABILIZED GAS PRODUCTION RATE, MCFPD

T = TOTAL COMMINGLED, STABILIZED GAS PRODUCTION RATE, MCFPD

LANGLIE MATTIX PROD. = D = (T - X) , MCFPD

****ALLOCATION OF PRODUCTION WILL THEN BE BASED ON PERCENTAGE OF TOTAL PRODUCTION**

LIST OF 40-ACRE OFFSET OPERATORS TO COOPER JAL UNIT 420,421 & 422

OPERATORS OTHER THAN TEXACO E & P:

NONE