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June 27, 1994

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

Attention: Mr. David R. Catanach

11075

Re: Exception to NMOCD Rule 303 (A), Order No. R-10033;
Addition of Five Wells to Previous Division Order
Jalmat and Langlie Mattix Pools
Cooper Jal Unit
Well Numbers 406, 407, 409, 414, and 419
T-24-S, R-36 & 37-E
Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval to add the five said wells to the its previous Division Order for downhole commingling of production from the Jalmat and Langlie Mattix Pools. The five said wells are located within the unit boundaries of the Cooper Jal Unit, Lea County, New Mexico. Each wells location is indicated in the attachments to this letter. 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 proposal for certification of Enhanced Oil Recovery on the Cooper Jal Unit. In this proposal, Texaco indicated that future locations would need to drilled as downhole commingled wells to complete the enhanced oil recovery project. The five 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 five wellbores. Texaco requests that this be performed

by adding these wells to the previously signed downhole commingling order, No. R-10033, dated December 10, 1993.

The subject wells meet all of requirements as 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 1993 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 Michael Alexander at (505)397-0411.

Yours very truly,

Russell Pool

RS Purl

Hobbs Area Engineer

MCA

attachments Chrono

cc: Jerry Sexton/NMOCD/Hobbs Shannon Shaw/BLM/Carlsbad

ATTACHMENTS

LOCATION PLATS (Form C-102)

NOTICE OF LOUDING

Submit to Appropriate District Office State Lease-4 copies Fee Lease-3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT ! P. O. Box 1980, Hobbe, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 85210

DISTRICT II
1000 Rio Erozoe Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator				Lease				Well No.
TEXACO EXP	LORATION AND	PRODUCTION In	c.	COOPER JA	L UNIT			406
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NOTICE OF LOCATION

Form C-102

Revised 1-1-89

Submit to Appropriate District Office State Lease-4 copies Fee Lease-3 copies

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<u>DISTRICT II</u> P. O. Drower DD, 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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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DISTRICT III 1000 Rio Brozos Rd., Azter, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-102 Revised 1-1-89

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DISTRICT III
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OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator				Lease	····		Well No.
TEXACO EXP	LORATION AND	PRODUCTION In	c.	COOPER J	AL UNIT		419
Unit Letter	Section	Township		Range		County	
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INDIVIDUAL WELL DATA SHEETS

Operator: Texaco USA, Inc.

Address: P.O. 730, Hobbs, New Mexico 88240

Lease and Well No.: Cooper Jal Unit No. 406

Proposed Location: Unit Letter H, 2522' FNL, 400' FEL of

Section 24, T-24-S, R-36-E Lea County, New Mexico

WELL DATA

	Upper Pool	Lower Pool
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
ВНР	312 psia (Pres from # 208 PBU)	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	0.8467 Common Unit Battery)

Operator: Texaco USA, Inc.

Address: P.O. 730, Hobbs, New Mexico 88240

Lease and Well No.: Cooper Jal Unit No. 407

Proposed Location: Unit Letter J, 2540' FSL, 1640' FEL of

Section 24, T-24-S, R-36-E Lea County, New Mexico

WELL DATA

	Upper Pool	Lower Pool
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
внр	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 (0.8467 Common Unit Battery)

Operator: Texaco USA, Inc.

Address: P.O. 730, Hobbs, New Mexico 88240

Lease and Well No.: Cooper Jal Unit No. 409

Proposed Location: Unit Letter K, 2500' FSL, 1450' FWL of

Section 24, T-24-S, R-36-E Lea County, New Mexico

WELL DATA

	Upper Pool	Lower Pool
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
ВНР	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 -
0:1	- NA -	- NA -
Gas	- NA -	- NA -
Water	- NA -	- NA -
GOR	- NA -	- NA -
GOR Limit	- NA -	- NA -
Gas Gravity	0.8467 (Both Commingled at	0.8467 Common Unit Battery)

Operator: Texaco USA, Inc.

Address: P.O. 730, Hobbs, New Mexico 88240

Lease and Well No.: Cooper Jal Unit No. 414

Proposed Location: Unit Letter O, 330' FSL, 2550' FEL of

Section 24, T-24-S, R-36-E Lea County, New Mexico

WELL DATA

	Upper Pool	Lower Pool
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
ВНР	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 C	0.8467 ommon Unit Battery)

Operator: Texaco USA, Inc.

Address: P.O. 730, Hobbs, New Mexico 88240

Lease and Well No.: Cooper Jal Unit No. 419

Proposed Location: Unit Letter P, 330' FSL, 500' FEL of

Section 13, T-24-S, R-36-E Lea County, New Mexico

WELL DATA

	Upper Pool	Lower Pool
Name of Pool	Jalmat Oil & Gas	Langlie Mattix Oil
ВНР	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	0.8467 Common Unit Battery)

COMPUTED VALUE OF DHC PRODUCTION

AVERAGE ESTIMATED PRODUCTION BEFORE DHC (SINGLE JALMAT WELL)

	TOTAL SINGLE	COMPLETION REVENUES	\$285.50
Gas	20 MCFPD	\$ 1.90/MCF	\$ 38.00
Oil	17 BOPD	\$16.50/BO	\$247.50
	L. MATTIX	AVERAGE PRICE	INCOME

AVERAGE ESTIMATED PRODUCTION AFTER DHC (DETERMINED FROM NORMALIZED 1993 NEW WELL PRODUCTION)

	JALMAT	LANGLIE MATTIX	COMMINGLED
Oil	15 BOPD	17 BOPD	32 BOPD
Gas	27 MCFPD	20 MCFPD	47 MCFPD
Water	81 BWPD	165 BWPD	246 BWPD

ESTIMATE OF VALUE OF DHC PRODUCED HYDROCARBONS

	COMMINGLED	PRODUCT PRICE	REVENUE
Oil	32 BOPD	\$16.50/BBL	\$ 528.00
Gas	47 MCFPD	\$ 1.90/MCF	\$ 89.00
TOTAL	ESTIMATED DAILY	REVENUES	617.00

NET DIFFERENCE FROM DOWNHOLE COMMINGLING = \$ 331.50/DAY

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)

DISTRICTAL

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised February 10,1994

Instructions on back

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

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

P.O. Box 2088

State Lease - 6 Copies

Santa Fe. New Mexico 87504-2088

DISTRICT IV	88, Santa Fe	, NM 8	7504-208	8		·				A	MEND	ED REPORT	
<u></u>	APPI	_ICA7				O DRILL, RE-	ENTER	, DEEPEN, P	LUGBACK, C				
TEXACO E	XPLORATK	ON & F	•	rator Name : TION INC.	and Add	dress						ID Number 2351	
P.O. Bax 31	109, Midland	d Texa	s 79702			-				3	API No	umber	
4	Property Cod	le	T				roperty Ne				• W	ell No.	
<u> </u>							ce Locat	~				406	
Ut or lot no.	Section	ł		Range	Lot.k	dn Feet From	The N	iorth/South Line	Feet From The	EastWes		County	
Н	24	2	4-S	36-E		2522		NORTH	400	EAST	<u></u>	LEA	
<u> </u>	1					ottom Hole Loc			m Surface Feet From The	East/Wes	402-1		
Ut or lot no.	Section	TOM	wnship	Range	Lot.k	dn Feet From	The N	forth/South Line	FOOL FLORE	t asvvves	(Line	County	
		9	Proposed I	Pool 1				,	¹⁰ Proposed P	ool 2			
	k Type Code N		12	WellType Co	ode	13 Rotary o R	r C.T.	¹⁴ Lea	ee Type Code P	¹⁶ Grou	und Leve GR-330	ol Elevation 13'	
14 Mult	tiple No		17 p	Proposed De	pth	¹⁶ Formeti	ion	19 Co	ontractor	²⁰ Spud Date 7/1/94			
L					21 Pro	posed Casing	and Ce	ment Program	 n				
SIZE O	F HOLE	T	SIZE OF C	ASING	_	EIGHT PER FOOT		ETTING DEPTH		OF CEMENT	Т	EST. TOP	
12 1/4		8 5/8	8		248		400'	400' 250			SURFACE		
7 7/8		5 1/2	2		15.6#	1	3750	3750' 950			SURFACE		
		+			┼		+				┼		
		+			 		+-	•			 		
CEMENTING SURFACE (bloweut preve G PROGRA CASING - 29	incion pro VM: 50 SX (ogram, if am	y. Use addition . W/ 2% CA	inal sheet	UG BACK give the data to if necessary. 4.8 PPG, 1.34 CF/	/S, 6.31 G	:W/S).					
PRODUCTI CLASS H (1					CLASS	S H W/ 6% GEL, 59	% SALI,	1/4# FLOCELE (1	/2.8 PPG, 1.94 C	F/S, 10.4 GW	/S). F/B	350 SACKS	
						TER QUARTER SE							
** FIELD: JA COMMINGL				VRS FORI	AATIOI	ns; langlie ma'	TTIX/7RV	/RS, QUEEN FO	RMATIONS. RE	QUEST TO D	OWN-H	IOLE	
UNORTHO	OOX LOCAT	rion -	EXCEPT	ION HAS E	EEN A	APPLIED FOR. (SE	E ATTAC	CHED LETTER.)					
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 (2.49.4	Baz	shar	<u>لر / ب</u>	DH H	<u> </u>	Appro	oved By:					
Printed Nam	e C.	P. Bas	ham	(Titie:						
Title Dri	illing Operat	ions M	gr.	_		_	Appr	oval Date:		Expiration Da	ate:		
Date 6	/14/94			Telepho		689.4620	Cond	litions of Approval	Ŀ	<u> </u>			

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

Fee Lease - 5 Copies

DISTRICT IV

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

6/14/94

Telephone

688-4620

Date

☐ AMENDED REPORT

	APPI	LICATION	ON FOR PER	MIT TO	DRILL, RE-	ENTER	R, DEEPEN, P	LUGBACK, (OR ADD	A ZONE		
		1	Operator Name		SS						ID Number	
TEXACO E	XPLORATION	ON & PR	ODUCTION INC.		-				-		2351	
P.O. Box 31	109, Midlan	d Texas 7	9702							N IPA	umber	
. ,	Property Cod	le				roperty N				• w	/ell No.	
						OPER JA	LUNIT				407	
	⁷ Surface Location											
Ul or lot no.	Section	Towns	hip Range	Lot.ldn	Feet From	The I	North/South Line	Feet From The	East/V	Vest Line	County	
J	24	24-8	36-E		2540		SOUTH	1640	E	AST	LEA	
			⁸ Propos	sed Botto	m Hole Loc	cation I	Different From	m Surface				
Ut or lot no.	Section	Towns	hip Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/V	Vest Line	County	
		Pro	posed Pool 1	L	<u> </u>		1	10 Proposed P	bol 2		L	
L								••				
¹¹ Worl	k Type Code		12 WellType C	ode	13 Rotary o	or C.T.	14 Loa	ee Type Code	16 (3round Lev	el Elevation	
	N		0		R			P		GR-33		
16 Mult	tiple		17 Proposed D	epth	18 Format	ion	19 Contractor			²⁰ Spud Date		
	No		3750		••		7/1			7/1/94	<u> </u>	
				²¹ Propo	sed Casing	and Ce	ement Progran	n				
SIZE O	F HOLE	SQ	E OF CASING	WEIGH	IT PER FOOT		ETTING DEPTH	BACKS	OF CEMEN	r	EST. TOP	
12 1/4		8 5/8		248		400'	400' 250			SURFACE		
7 7/8	<u> </u>	5 1/2		15.5#		3750	<u> </u>	950		SURF	ACE	
		+										
		-		ļ- ·								
	 -	1	mustus to a first		1404 1 - 1 1 1		ent productive zoneen					
Describe the CEMENTING SURFACE C PRODUCTION CLASS H (1)	Blowout provided in the provid	ntion progra M: 50 SX CL 3 - 600 S. 18 CF/S,	m, If any. Use additional of the second of t	enel sheets if r ACL2 (14.8 I CLASS H	PPG, 1.34 CF. W/ 6% GEL, 5	/s, 6.31 (% salt,				GW/S). F/I	B 350 SACKS	
							VRS, QUEEN FO	DMATIONS DE	OHERT T	י איייטער י	101 E	
COMMINGL			es, /kvks fur	MATIONS,	LANGLIE MA	ii iw/k	vks, queen fo	RMATIONS, RE	QUEST IC	J DOWN-1	HOLE	
UNORTHOD	DOX FOCY.	TION - E	(CEPTION HAS	BEEN APP	LIED FOR. (SI	EE ATTA	CHED LETTER.)					
Division hav	re been compli	ed with end	lations of the Oil Con- that the information of knowledge and belief	evoda nevi			OIL C	ONSERVA	ATION	DIVISIO	NC	
Signature:	C.4.	Bas	ham /	194	1	Appr	oved By:	· · · · · · · · · · · · · · · · · · ·				
Printed Name	e C.	P. Basha	m 			Title	<u>: </u>					
Title Dri	illing Operat	ions Mar.				App	rovai Date:		Expiration	n Date:		

Conditions of Approval:

Attached

Expiration Date:

DISTRICT!

DISTRICT II

DISTRICT III

Attached

-7.0. Box 1980, Hobbs, NM 88241-1980

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101

Revised February 10,1994

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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Submit to Appropriate District Office

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV P.O. Box 2068, Santa Fe, NM 87504-2068

☐ AMENDED REPORT

	APPL	ICATION FO	OR PERM	AIT TO E	RILL, RE-	ENTER,	DEEPEN, P	LUGBACK, C	R ADD A		
TEYACO F)	OPATIO	Oper	ator Name a	ind Address	s						D Number 2351
		d Texas 79702	IVIT IITO.		-					3 API Nu	
4 P	raperty Cod	•				Toperty Na					eli No. 409
						e Locat					
UI or lot no.	Section	Township	Range	Lot.ldn	Feet From		orth/South Line	Feet From The	East/W	est Line	County
K	24	24-S	36-E		2500		SOUTH	1450	WE	EST	LEA
			⁸ Propose	ed Botto	m Hole Loc	ation If	Different Fro	m Surface			
Ul or lot no.	Section	Township	Range	Lot.ldn	Feet From		orth/South Line	Feet From The	East/W	est Line	County
	<u></u>	Proposed i	Pool 1					10 Proposed P	pol 2		
					13		· · · · · ·				
	Type Code	13	WelfType Co	de	Rotary o	r C.T.	" Lea	se Type Code	¹⁶ Gr	round Level	
16 Wulti	V iole	17,	Proposed Dep	oth	18 Formati		10 Cc	entractor		GR-333 Spud	
i	lo		3750'		••					7/1/94	96
l			21	1 Pmpos	end Casing	and Ce	ment Prograr				
SIZE OF	HOLE	SIZE OF C	ASING		T PER FOOT		TTING DEPTH		OF CEMENT		EST. TOP
12 1/4		8 6/8		24#		400'		250		SURFA	
7 7/8		5 1/2		15.5#		3750	<u>. </u>	950		SURFA	
		<u></u>					·				
Describe the CEMENTING SURFACE C PRODUCTIC CLASS H (15 THERE ARE FIELD: JA COMMINGLI	Bowout provided in the provide	ntion program, if em M: 50 SX CLASS C S - 600 SACKS: 18 CF/S, 5.20 G R OPERATOR: SIL, YATES, 7R FILED.	V. Use addition W/ 2% CA(35/65 POZ (5W/S). S IN THIS Q	CL2 (14.8 F CLASS H V DUARTER (PPG, 1.34 CF/ N/ 6% GEL, 5 QUARTER SE LANGLIE MA	/s, 6.31 G % SALT, 1 ECTION. ATTIX/7RV	W/S). 1/4# FLOCELE (1	I 2.8 PPG, 1.94 C	F/S, 10.4 G	·	
23 I herely 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 (J.Ψ.	Bash	lm/	404	4	Appro	ved By:				
Printed Name	C. I	P. Basham				Title:					
Title Drit	lling Operati	ons Mgr.		·		Appro	wal Date:		Expiration	Date:	
Date 6/	14/94		Telephor	ne 68	38-4620	Conditions of Approval:					

DISTRICT! W-2

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

DISTRICT II

DISTRICT III

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

State of New Mexico Energy, Minerals and Natural Resources Department

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State Lease - 6 Copies 1000 Ric Brazos Rd., Aztec, NM 87410 Santa Fe. New Mexico 87504-2088 Fee Lease - 5 Copies DISTRICT IV ☐ AMENDED REPORT P.O. Box 2088, Senta Fe, NM 87504-2088 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address **OGRID Number** 022351 TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702 API Number ⁶ Property Name Well No. **Property Code COOPER JAL UNIT** 414 **Surface Location** Feet From The North/South Line Feet From The East/West Line Ut or lot no. Section Lot.idn County Township Range 330 SOUTH 2550 **EAST** LEA 0 24 36-E 24-S ⁸ Proposed Bottom Hole Location If Different From Surface Feet From The Feet From The North/South Line East/West Line Ul or lot no. Section Lot.ldn County Township Range ¹⁰ Proposed Pool 2 Proposed Pool 1 11 Work Type Code 12 WellType Code 15 Ground Level Elevation Rotary or C.T. Lease Type Code P GR-3312" N 18 Formation 18 Contractor Multiple 17 Proposed Depth 20 Spud Date No 3750 7/1/94 **Proposed Casing and Cement Program** WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST TOP SIZE OF HOLE SIZE OF CASING 12 1/4 24# 400 250 SURFACE 8 5/8 7 7/8 5 1/2 15.5# 3750 SURFACE 950

22 Describe the prepased program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zoneand proposed new productive zone. Describe the blowout prevention program, if any. Use additional shoets if necessary.

CEMENTING PROGRAM:

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

PRODUCTION CASING - 600 SACKS 35/65 POZ CLASS 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, 5.20 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

** FIELD: JALMAT/TANSIL, YATES, 7RVRS FORMATIONS; LANGLIE MATTIX/7RVRS, QUEEN FORMATIONS. REQUEST TO DOWN-HOLE COMMINGLE IS BEING FILED.

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

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 C. P. Basham / SDH	Approved By:				
Printed Name C. P. Basham	Title:				
Title Drilling Operations Mgr.	Approval Date: Expiration Date:				
Date 6/14/94 Telephone 688-4620	Conditions of Approval:				

W-2

DISTRICT I

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

DISTRICT II

P.O. Box ()rawer 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

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Submit to Appropriate District Office

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Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR F	ERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBA	CK, OK ADD A ZONE
1 Operator N TEXACCI EXPLORATION & PRODUCTION	arne and Address	² OGRID Num 022351
P.O. Box: 3109, Midland Texas 79702	- -	3 API Number
⁴ Property Code	6 Property Name COOPER JAL UNIT	Well No.
	7 Surface Location	

UI or lot no. P	Section 13	Township 24-S	Range 36-E	Lot.ldn	Feet From The 330	North/South Line SOUTH	Feet From The 500	East/West Line EAST	County LEA
⁸ Proposed Bottom Hole Location If Different From Surface									
Ut or lot no.	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County

Proposed Pool 1	UI or lot no.	Section	Township	Range	Lot.idn	Feet From	The	North/South Line	Feet From The	East/West Line	County
••	Proposed Pool 1							10 Proposed Poo	1 2		
l			••	•					••		

11 Work Type Code	12 WellType Code	Rotary or C.T.	14 Lesse Type Code	16 Ground Level Elevation
N	0	R	P	GR-3315'
¹⁶ Multiple	17 Proposed Depth	18 Formation	19 Contractor	²⁰ Spud Date
No	3750'	••		7/1/94

²¹ Proposed Casing and Cement Program

SIZI: OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24#	400'	260	SURFACE
7 7/8	5 1/2	16.6#	3760'	950	SURFACE
			•		

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zoneand proposed new productive zone. Describe the blowout provention program, if any. Use additional shoets if necessary.

CEMENTING PROGRAM:

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

PRODUCTION CASING - 600 SACKS 35/65 POZ CLASS 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, 5.20 GW/S).

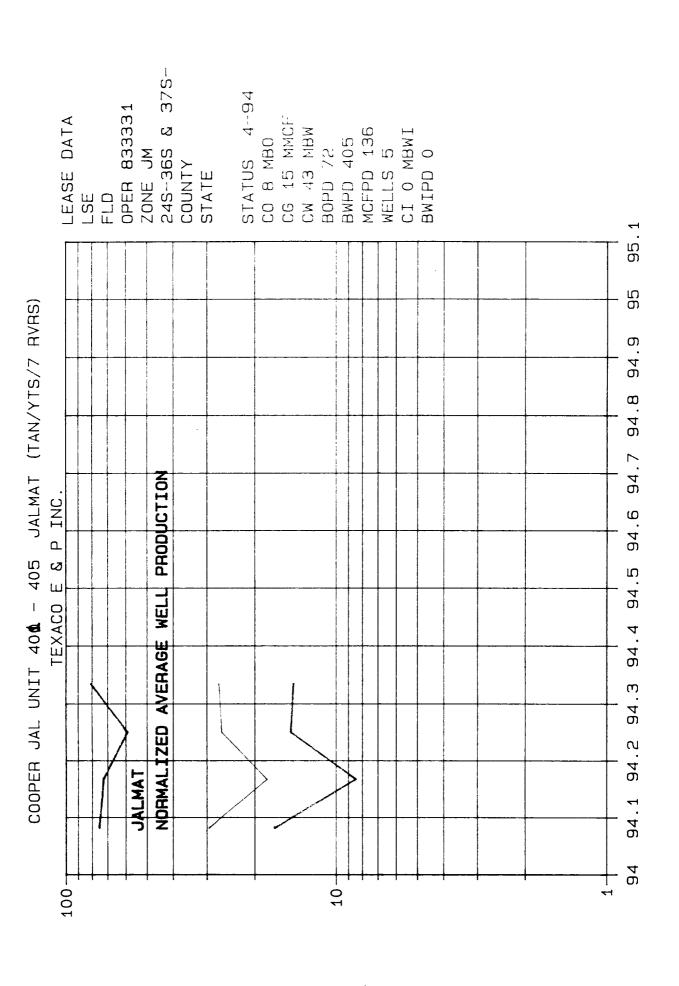
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

** FIELD: JALMAT/TANSIL, YATES, 7RVRS FORMATIONS; LANGLIE MATTIX/7RVRS, QUEEN FORMATIONS. REQUEST TO DOWN-HOLE COMMINGLE IS BEING FILED.

23 I hereby certify that the rules and regu Division have been complied with and		OIL CON	OIL CONSERVATION DIVISION		
is true and complete to the best of my Signature C.P. Ba	sham ISOH	Approved By:			
Printed Name C. P. Basha	m .	Title:			
Title Drilling Operations Mgr.		Approval Date:	Expiration Date:		
Date 6/14/94	Telephone 688-4620	Conditions of Approval:			

NORMALIZED PRODUCTION PLOTS





WCFPD

BMPD

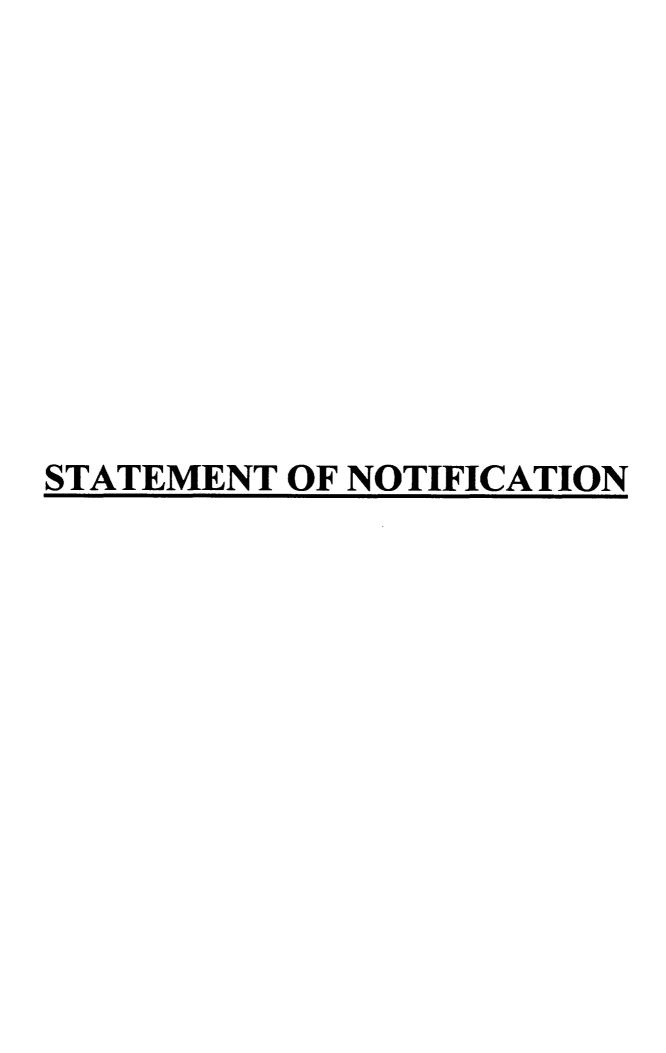
ВОРО

B0PD

ВМЬО

WCFPD

YEARS



LIST OF 40-ACRE OFFSET OPERATORS TO PROPOSED WELLS

OPERATORS OTHER THAN TEXACO E & P :

406 : NONE 407 : NONE 409 : NONE 414 : NONE 419 : NONE

Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Maii (See Reverse) Sent to BLM Street and No Carlsbad 88220 Box 1778, 1.44 Certified Fee 1.00 Special Delivery Fr Restricted Delive Return Receipt Showing to Whom & Date Delivered Return Receive Show us to Whom, Date, and Address (कु) TOTAL Tosiege & Feet \$ 2.4 11131 3800, Form USPS PS

P 309 859 129