DISTRICT! P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II

811 South First St., Artesia, NM 88210-2835 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410-1693

Jeazy

TYPE OR PRINT NAMETed A. Tipton

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

EXISTING WELLBORE X YES

FOUR STAR OIL AND GAS COMPANY		3300 N. Butler A	ve Suite 10	0 Farming	oton.	NM	87401
Operator			Address			INIVI	67401
C W ROBERTS	9 Well No.	G	17	T25N	R03W		RIO ARRIBA
		Uni	it Ltr Sec - Twp	- Rge	Sj	pacing Unit Lease	County Types: (check 1 or more
OGRID No. 131994 Property	Code	API No.	300	3924957	Federal	x State	(and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper			Intermediate			Lower
1 Pool Name and	Zone Basin Fruitland			Zone		Blanco PC Se	Zone outh
Pool Code 2 Top and Bettom of	Coal 71629					72439	· · · · · · · · · · · · · · · · · · ·
Top and Bettom of Pay Section (Perforations)	3662'-3768'					3802'-3846'	
Type of Production (Oil or Gas)	Gas		U M	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 	6	
	2			— · · · · · · · · · · · · · · · · · · ·		Gas	
Method of Production (Flowing or Artifical Lift)	Flowing		(0.III			Flowing	
5. Bottomhole Pressure	(Current)		a.			a	
Oil Zones - Artifical Lift: Estimated Current	:					327 psig (ave. offse	well)
Gas -Oil - Flowing:	b. (Original)		b.			b	
Measured Current All Gas Zones:	449.46 psig					434.9 psi	9
Estimated Or Measured Original	<u> </u>	_				(from offset	well)
6 Oil Gravity (*API) or Gas BTU Content	1153 btu/cu ft					1156 btu/ci	= ·
7. Producing or Shut-in ?						(from o	ffset well)
	Producing		·			not yet com	pleted
Production Marginal? (yes or no)	yes					yes	
If Shut-in, give date and oil/gas/ water rates of last producton	Date:		Date:			Date:	
If ite. For new zones with no production history applicant shall be required to attach production.	Rates		Rutes:			Rates	
estimates and supporting data	Date:	12/15/96	Date:			Date:	
If Producing, give date and cil/gas/ water rates of recent test	Rates: 16.MCF0	127,0150	Rates:				ot yet
(within 60 days)	0 BWPD					completed	
8 Fixed Percentage Allocaton	Oil	Gas:	Oil:	Gas		Oil:	Gas
Formula - % for each zone	%	%	<u> </u>	% 	%		% —
 If allocation formula is based up submit attachmments with sup Are all working, overriding, and If not, have all working, overrid Have all offset operators been of 	porting data and/or or royalty interests ide ing, and royalty inte	explaining methentical in all con rests been notif	nod and provi nmingled zor fied by certif	iding rate proj nes? ied mail?	sed on some	ther required	od, data. Yes No Yes No
11. Will cross-flow occur?Y	es <u>x</u> No If y	res, are fluids c	ompatible, w	vill formations	not be darn		
flowed production be recovered	, and will the allocat	tion formulla be	reliabl	Yes	No		attach explanatio
2. Are all produced fluids from all	commingled zones c	ompatible with	each other	XYes	No		
3. Will the value of production be	decreased by commi	ngling?		Yes	⊀ No	(If Yes, a	ittach explanation
 If this well is on, or communitized United States Bureau of Land M 	ed with, state or fed anagement has beer	eral lands, eithe notified in wri	er the Comm ting of this a	issioner of Pu pplicati 🔏 Y	blic Lands o	or the No	
5. NMOCD Reference Cases for Ru			ORDER NO(S			-	
6. ATTACHMENTS: *C-102 for each zone to b *Production curve for each *For zones with no produc *Data to support allocation *Notification list of all work	izone for at least one tion history, estimate method or formula. t, operators. Exh	e year. (If not av d production rat モメルル・ナ いる・ナーヤ	vailable, attaces and suppo	ch explanation. orting data) Exhib Exhibid	14 II.	_
*Any additional statements	s. data or documents	required to sun	nort commin	alina 4 A	s. ·/ ·/ 127		

Operating Unit Manager

Talephone

___ Date

325-4397

1-16.97

States to Appropriate Legislat Office See: - 4 comes

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-102 Reviews 1-1-29

DISTRICT I P.O. Box 1980, Hobbs, NM 18240

OIL CONSERVATION DIVISION

P.O. Box 2088

Sama Fe, New Mexico 87504-2088 Exhibit IA

DISTRICT II P.O. DISSET DD, Artesia, NM \$8210

DISTRICT III 1000 Rep attend Rd., Attac., NM \$7410

WELL LOCATION AND ACREAGE DEDICATION PLAT

	ACO		at be from the outer boundaries of the		Well No.
G	17	Townsky	CW Roberts		9
Tomas Locate		25 North	3 West	Count	y
1615	of from the	North		NMPM	Rio Arriba
7273 '	Produce	of Postantine		fam to .	East
	Fruit.	land Coal	Racin Racin	feet from the	Dedicated Acres e
T- CELEBRA (SA	screeks concess	to the subject well by colores	Basin Fruitland	d Coal	320
2. If more than	e cas isses is ded	icuted to the well custing once	and it is	ow.	
1. If more than	One lease of diff		and identify the ownership thereof (both	t as to working unlaw	s and royalty).
	TORCO-DOCTORS, MC	.7	the west, have the manual of all owner	t been commissed by	
If any at a	o" list the current	No If server is "yes"	type of commission NA	<u> </u>	Contraction of the contraction o
this form if no	у		ive actually been connectioned. (Use ser	Man make of	
or testi a son-	THE DE BANGEMENT AND ASSESSMENT ASSESSMENT COMMENTS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSES	the west track all interests have	been consolidated (he con-		
000000000000000000000000000000000000000		52.74, 72 ⁷	been conscioused by communication approved by the Division.	L UNIVERSION, TOPOGRAP	octing, or otherwise)
	***************************************	***************************************	\$		
				OPER	ATOR CERTIFICATI
	!		!	Contract A	ely carrily that the in-
	!			best of my a	nominate and belief.
	1		5/2		
	!	1	21	7700	1 /12
		SE 070000	1 1	Promed Name	n (1 Kleie
	i	SF-079600		Alan A	. Kleier
	1	1	1 1	Possos	
		1	1590'	279	lanager
	i		1 ,5 ,0	Company Texaco	Tno
	İ		1	Date	, inc.
**************************************	1	.		Date	
				<u> </u>	Von C
	1			選り 2DKAE	YOR CERTIFICATIO
	•			N I hereby care	fy that the well location i
-				OR IALS PASS	was platted from field not
			1 \$11 a. a. 1	SUPERIUSE. SE	made by me or under the the same is some
			MAX 5 1	correct 10 the	best of my incuredge
·		4. *.		belief. 11/	17/90
-				Date Supplyed	200
				1/4	EC EXT
-1			i	Signature Se	WE WE YOU
i				12/	HENCO S
i		1	, i	li li la	(6857)
i		1	İ	احا	7
i			1		6857
		5274.72		Carutiana Co	EN LAND SUE
668 965 1730	1830 1983			Neale	~ L I RNN ~ . /

Exhibit IB

DISTRICT !

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

DISTRICT II.
P.O. Box Drawer DD, Artesia, NM 88211-071

DISTRICT IIL

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-102
Revised February 10,199
Instructions on back
Submit to Appropriate District Offic
State Lease - 4 Copies
Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3003924957	Pool Code 72439	Pool Name BLANCO P. C. SOUTH (PRORATED GAS)	
4 Property Code	⁵ Property		No.
011208	C W RC		9
⁷ OGRID Number	⁸ Operati	5.7.14.11.5	vation
131994	FOUR STAR OIL AI		273

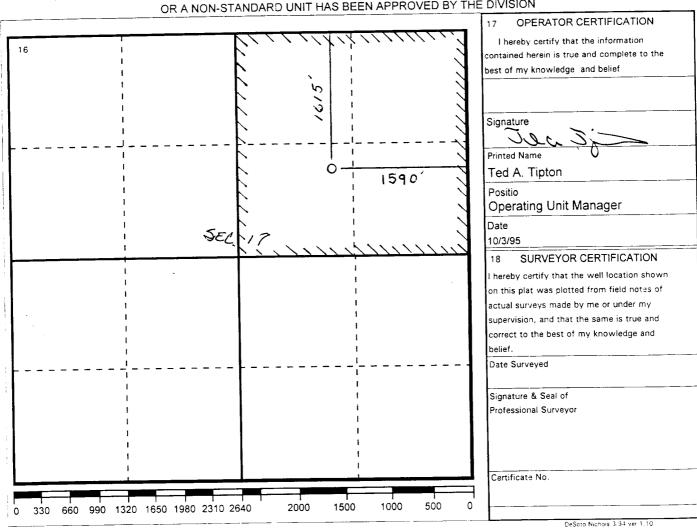
¹⁰ Surface Location

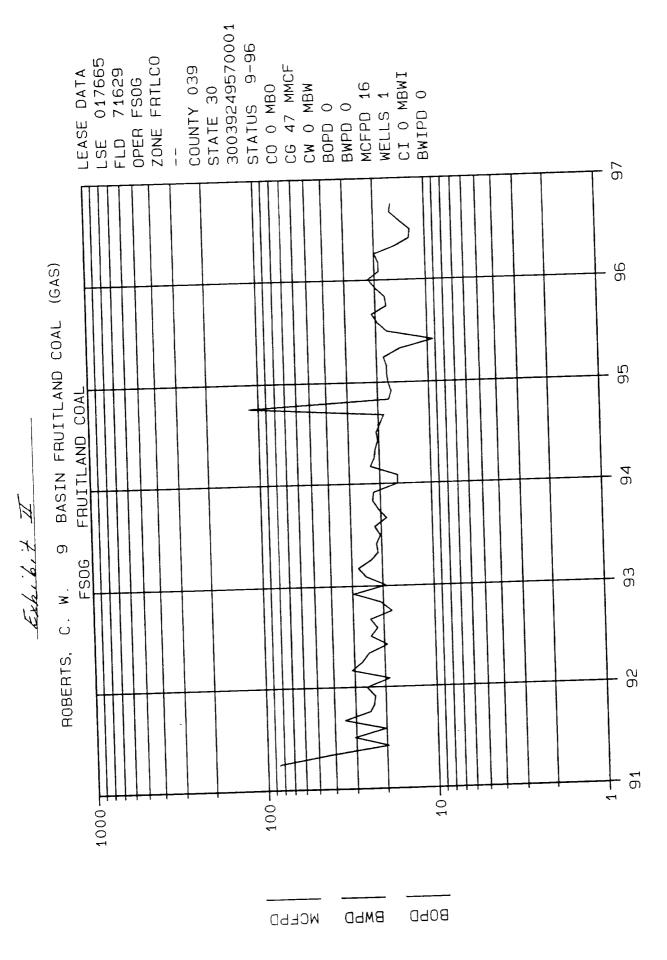
ſ	III es let no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County	l
- [UI or lot no.	Section	1 Ownship	, tange			NODTH	4500	EAST	RIO ARRIBA	i
- 1	6	17	T25N	R03W		1615	NORTH	1590	EAST	THO PHARMON	1
- 1	l G	,,,									-

Bottom Hole Location If Different From Surface

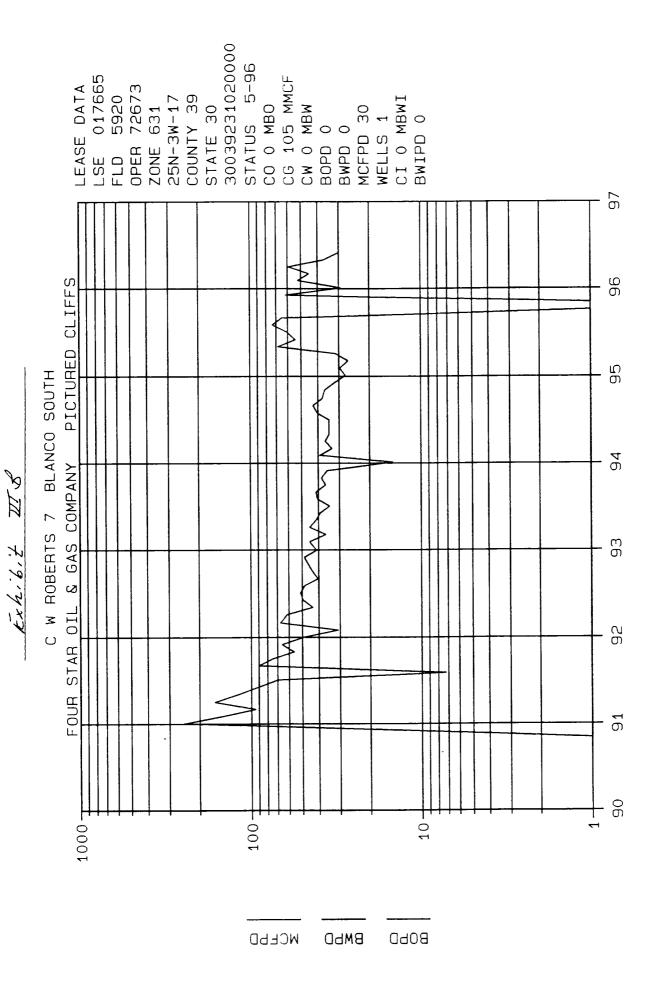
		DOLLOTT 1 TOR		111 011101011111111111111111			
UI or lot no. Section	Township Rang	ge Lot.ldn	Feet From	The North/South Line	Feet From The	East/West Line	County
	3 Joint or Infill	14 Consolidation	n Code	¹⁵ Order No.			
160	No						

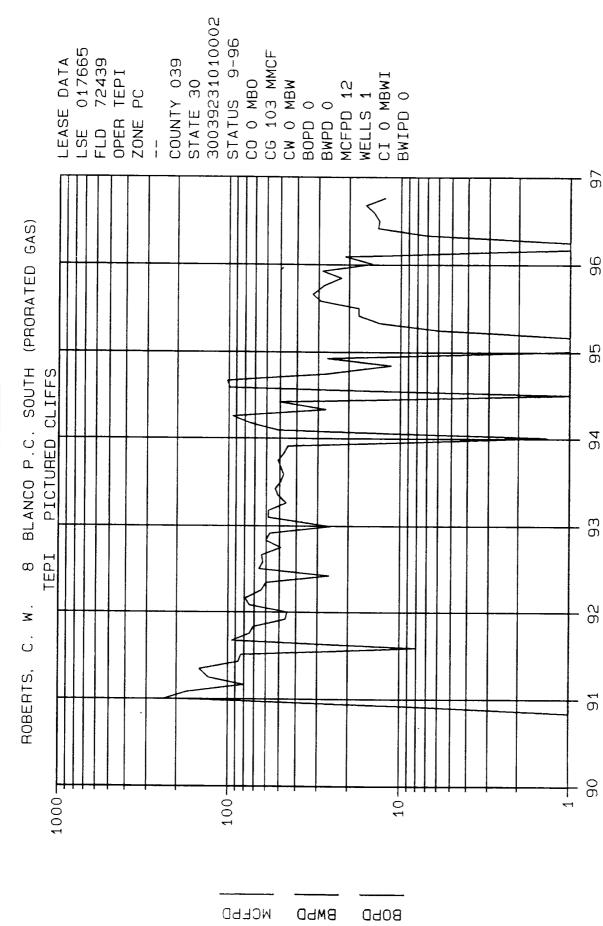
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





YEARS





YEARS

Exhibit IV

Current Fruitland (Coal Production	Anticipated Picture	ed Cliffs Production
Oil, BOPD	0	Oil, BOPD	0
Water, BWPD Gas, MCFD	16	Water, BWPD Gas, MCFD	100

The combined production from both zones is expected to be 116 MCFD, 0 BOPD and 0 BWPD.

Using out <u>anticipated</u> PC production rate, allocation factors will be calculated as follows:

	<u>Gas</u>	<u>Oil</u>
Fruitland Coal	16/(16+100) = 14%	0
Pictured Cliffs	100/(16+100) = 86%	0

The <u>actual</u> production rate following the commingling process will be presented to the Aztec NMOCD office to arrive at proper allocation factors for splitting the production stream.

OFFSET OPERATORS FOR ROBERTS NO. 9 T-25-N, R-3-W RIO ARRIBA COUNTY, NM

(1) SW/4-Section 7-25N-3W (Fruitland Coal formation)

Dugan Production Corp. P.O. Box 420 Farmington, New Mexico 87499-0420

Standard Silver Corp. 309 Washington SE Albuquerque, New Mexico 87108

(2) SE-Section 7-25N-3W (Fruitland Coal formation)

Minel, Inc. 309 Washington SE Albuquerque, New Mexico 87108

(3) <u>SW/4-Section 8-25N-3W (Fruitland Coal/Pictured Cliffs formation); SE/4-Section 16-25N-3W (Fruitland Coal formation); SW/4-Section 16-25N-3W (Fruitland Coal/Pictured Cliffs formation)</u>

Schalk Development Co. P.O. Box 25825 Albuquerque, New Mexico 87125

Martha Rouse Schalk, Trustee P.O. Box 25825 Albuquerque, New Mexico 87125

John E. Rouse Trust P.O. Box 408 Cheyenne, Wyoming 82003

(4) <u>SE/4-Section 8-25N-3W (Fruitland Coal/Pictured Cliffs formation); SE/4-Section 9-25N-3W (Fruitland Coal/Pictured Cliffs formation)</u>

Meridian Oil Production, Inc. P.O. Box 4289 Farmington, New Mexico 87499-4289

(5) NE/4-Section 16-25N-3W (Fruitland Coal formation); NW/4-Section 16-25N-3W (Fruitland Coal/Pictured Cliffs formation)

James E. Rogers 2525 Gateway West El Paso, Texas 79903

side	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write *Return Receipt Requested* on the mailpiece below the article. The Return Receipt will show to whom the article was delivered and	does not	es not 1. Addressee's Address 2. Restricted Delivery				
ed on	delivered. 3. Article Addressed to:		4a. Article Number P 553 379 454				
your RETURN ADDRESS completed on the reverse	DUGAN PRODUCTION CORP. PO BOX 420 FARMINGTON, NM 87499-0420	4b. Service ☐ Registere ☐ Express	Type ed	Thank you for using Return Receipt Service			
TUBN A	5. Received By: (Print Name)	8. Addresse and fee is	115 197 e's Address (Only if requested s paid)	Fhank you			
is your RI	6. Signature: (Addressee or Agent) X X X X X X X X X X X X X		Domestic Return Receipt	_			
=	PS Form 3811 , December 1994		Domestic Return Receipt				
the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write 'Return Receipt Requested" on the mailpiece below the article number. Write 'Return Receipt will show to whom the article was delivered and the date delivered.						
ed on	3. Article Addressed to:		4a. Article Number P 553 379 451				
RETURN ADDRESS completed on the reverse	STAND ARD SILVER CORP. 309 WA S HINGTON SE ALBUQUERQUE, NM 87108	4b. Service Registe Express	o Type red	ㅁ			
ETURN	5. Received By: (Print Name)	8. Address and fee	ee's Address (Only if requested is paid)	 Thank)			
ls your F			Domestic Return Receip	ot			
	1011110011111001111001111001111001111001111						
the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if spar permit. Write 'Return Receipt Requested' on the mailpiece below the article was delivered a delivered.	cle number.	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.	Ü ipt Service.			
of pater	3. Article Addressed to:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Number 53 379 49a	 urn Rece			
IN BETHEN ADDRESS completed on the reverse	MINEL, INC. 309 WASHINGTON SE ALBUQUERQUE, NM 87108	4b. Service Registe Expres Return F 7. Date of	ered 🕱 Certifie is Mail Insured Receipt for Merchandise 🗆 COD	<u> </u>			
PETITION	5. Received By: (Print Name)		see's Address (Only if requested is paid)	 Thank)			
310	6. Signature: (Addressee or Agent)						

PS Form 3811, December 1994

Domestic Return Receipt

se side?	SENDEH: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Pant your name and address on the reverse of this form so that we can be completed.	can return this	I also wish to receive the following services (for an extra fee):			
on the revers	card to you. Attach this form to the front of the mailpiece, or on the back if space permit. White 'Return Receipt Requested' on the mailpiece below the article. The Return Receipt will show to whom the article was delivered and delivered.	 Addressee's Address Restricted Delivery Consult postmaster for fee. 	eipt Service			
Is your RETURN ADDRESS completed on	3. Article Addressed to: MERIDIAN OIL PRODUCTION, INC. PO BOX 4289 ALBUQUERQUE, NM 87499-4289	7. Date of De	rype ad	Thank you for using Return Receipt Service		
your RETURN ADDRESS completed on the reverse side?	SENDER: © Complete items 1 and/or 2 for additional services. © Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write 'Return Receipt Requested' on the mailpiece below the article The Return Receipt will show to whom the article was delivered and delivered. 3. Article Addressed to: JAMES E ROGERS 2525 GATEWAY WEST EL PASO, TN 79903 5. Received By: (Print Name)	4a. Article N 4b. Service Register Express Return Re 7. Date of C	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. Number 379 493 Type red Mail Insured eccipt for Merchandise COD Delivery ee's Address (Only if requested is paid)	Thank you for using Return Receipt Service.		
<u>8</u>	PS Form 3811 , December 1994		Domestic Return Receipt			



3300 N Butler Farmington NM 87401

January 16, 1997

Dugan Production Corp.

P. O. Box 420
Farmington NM 87499-0420
Re: Downhole Commingle
C. W. Roberts No. 9
1615' FNL & 1590' FEL, Sec. 17-T25N-R3W, Unit G
Rio Arriba County, New Mexico

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being notified of our request for an exception to NMOCD Rule 303-A. Four Star Oil and Gas Company proposes to downhole commingle the Basin Fruitland Coal and the Blanco P. C. South pools within the above referenced well.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If you desire to submit remarks concerning this application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico, 87505-6429. A copy of any remarks to undersigned would be appreciated. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

If you have any questions concerning this matter please contact Mr. Mark R. Reinhold at 505-325-4397 ext. 19.

Sincerely,

Ted A. Tipton

Operations Unit Manager

MRR/s

Attachments

Waiver Approval:

FARMINGTON AREA

TAT JMY

RH MGB

LNS RDW

BRH JAN 2 2 1997

MRR / 2 7 JLS RPS TLD

RPS TLD

RSD FILE

TRB RETURN TO



Texaco Exploration and Production Inc

Standard Silver Corp.

309 Washington SE Albuquerque, NM 87108

Re: Downhole Commingle C. W. Roberts No. 9

1615' FNL & 1590' FEL, Sec. 17-T25N-R3W, Uni

Rio Arriba County, New Mexico

3300 N Butler Farmington NM 87401								
Farmington NM 87401 FARMINGTON AREA								
TAT		JMY						
RH		MGB						
LNS		RDW						
BRH								
MRR	Γ <u>Ε</u>	B – 3 1	99/					
		JLS						
RFS.		TLD						
BAB								
RSD		FILE						
TRB	-	RETU	RN TO					

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being notified of our request for an exception to NMOCD Rule 303-A. Four Star Oil and Gas Company proposes to downhole commingle the Basin Fruitland Coal and the Blanco P. C. South pools within the above referenced well.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If you desire to submit remarks concerning this application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico, 87505-6429. A copy of any remarks to undersigned would be appreciated. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

If you have any questions concerning this matter please contact Mr. Mark R. Reinhold at 505-325-4397 ext. 19.

Sincerely,

Ted A. Tipton

Operations Unit Manager

Jeazy

MRR/s

Attachments

cc: file

Waiver Approval:

DATE: 1/29/97

anuary 16, 1997



Texaco Exploration and Production Inc

3300 N Butler Farmington NM 87401

						(
	FARN	1INGT	ron	ARE/	Ian	arv	16.	1997
TAT			JMY			,	,	
RH			MOB			l		
LNS		1	ROW			l		
BRH						[
	FE							
MRR			JLS			1		
RFS			TLD	·		1		
BAB								
RSD			FIL	E]		
TRB			RET	URN T	0]		

Minel, Inc.

309 Washington SE Albuquerque, NM 87108 Re: Downhole Commingle

C. W. Roberts No. 9

1615' FNL & 1590' FEL, Sec. 17-T25N-R3W, Unit G

Rio Arriba County, New Mexico

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being notified of our request for an exception to NMOCD Rule 303-A. Four Star Oil and Gas Company proposes to downhole commingle the Basin Fruitland Coal and the Blanco P. C. South pools within the above referenced well.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If you desire to submit remarks concerning this application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico, 87505-6429. A copy of any remarks to undersigned would be appreciated. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

If you have any questions concerning this matter please contact Mr. Mark R. Reinhold at 505-325-4397 ext. 19.

Sincerely,

Ted A. Tipton

Operations Unit Manager

Je a Zi

MRR/s

Attachments

cc: file

Waiver Approval:

Company: -

V. 17 . 10 . 2

DATE:

JEGY



3300 N Butler Farmington NM 87401

January 16, 1997

James E. Rogers

2525 Gateway West El Paso, Texas 79903 Re: Downhole Commingle C. W. Roberts No. 9

1615' FNL & 1590' FEL, Sec. 17-T25N-R3W, Unit G

Rio Arriba County, New Mexico

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being notified of our request for an exception to NMOCD Rule 303-A. Four Star Oil and Gas Company proposes to downhole commingle the Basin Fruitland Coal and the Blanco P. C. South pools within the above referenced well.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If you desire to submit remarks concerning this application, please send them to Mr. William J. LeMay, Director, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico, 87505-6429. A copy of any remarks to undersigned would be appreciated. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

If you have any questions concerning this matter please contact Mr. Mark R. Reinhold at 505-325-4397 ext. 19.

Sincerely,

Ted A. Tipton

Operations Unit Manager

MRR/s

Attachments co: file

FARMINGTON AREA

TAT JMY
RH MGB
LNS RDW
BRH

MAR - 3 1997

MRR JLS
RFS TLD
BAB
RSD FILE
TRB RETURN TO

Waiver Approval:

Company:

BY:

DATE:

2-12-97

Farm 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS SF 079600 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. 6. If Indian, Alottee or Tribe Name Use "APPLICATION FOR PERMIT --" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 8. Well Name and Number ⊠ GAS WELL OIL WELL C W ROBERTS 1. Type of Well: U OTHER 9 2. Name of Operator FOUR STAR OIL AND GAS COMPANY 9. API Well No. 325-4397 3. Address and Telephone No. 3300 N. Butler Ave., Suite Farmington 87401 4. Location of Well (Foctage, Sec., T., R., M., or Survey Description) 10. Field and Pool, Exploratory Area BASIN FRUITLAND COAL (GAS) Feet From The Feet From The NORTH Line and 1590 1615 Unit Letter 11. County or Parish, State Range R03W Section 17 _____ Township T25N RIO ARRIBA, NM EAST_ __ Line Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data 12. TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Abandonment **New Construction** Recompletion Non-Routine Fracturing Plugging Back Notice of Intent Water Shut-Off Casing Repair Subsequent Report Conversion to Injection Atlering Casing Final Abandonment Notice Dispose Water ADD P.C. OTHER: (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

FOUR STAR OIL & GAS CO. REQUESTS APPROVAL ON THE FOLLOWING:

TO ADDITIONALLY COMPLETE THE PICTURED CLIFFS FORMATION AND DOWNHOLE COMMINGLE WITH EXISTING FRUITLAND PRODUCTION. PLEASE REFER TO ATTACHED PROCEDURE AND WELLBORE DIAGRAM FOR DETAILS. DOWNHOLE COMMINGLE HAS BEEN APPLIED FOR WITH THE N.M.O.C.D., APPLICATION ATTACHED.

the and correct						
14 Thereby certify that the foregoing is true and correct SIGNATURE	}	TITLE	Operating Unit Manager		DATE	1/15/97
TYPE OR PRINT NAME	Ted A. Tipton					
(This space for Federal or State office use)						
APPROVED CONDITIONS OF APPROVAL, IF ANY:	TITLE			_DATE		
Title 18 U.S.C. Section 1001, makes it a crime for regresentations as to any matter within its jurisdictions.	any person knowingly and	I willfully to п	nake to any department or agency of the United States ar	ny false, fictitiou	us or fraudulent stater	ments or

^{13.} Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.

If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work,)*.

Workover Procedure

- Insure that a BLM Sundry has been approved and any stipulations of approval are adhered to. Inspect and repair rig dead man anchors as needed.
- MIRU well service unit. NDWH. NUBOP.
- Retrieve plunger. Kill well with 2% Kcl water if necessary. POOH with 3738' of 2-3/8" production tubing.
- 4. RU wireline service. Perforate the following Pictured Cliffs intervals with 4 JSPF, Schlumberger HEGS, w/90 degree phasing:

#	<u>Interval</u>	<u>Net ft</u>	# holes
1.	3834′-20′	16′	64
	3840′-46′	6′	24

Total = 22' net, 42' gross, 88 holes.

- 5. RIH with 2-3/8" tbg, Guiberson Uni III and Guiberson Uni VI packers. Straddle Fruitland Coal perforations (3662'-3768') by setting the Uni VI packer at 3780' and the Uni III at 3600'.
- 6. RU Dowell. Pressure up backside to 500 psi and monitor. Fracture stimulate PC perfs down 2-3/8" tbg with 15,800 gals 50 quality stable foamed gel and 52,700 lbs brady sand according to the attached Dowell frac schedule. Under flush by 2-3 barrels. If Nolte plot net pressure is stable, taper down rate during flush to assist tip screenout and minimize fluid momentum at final shut down. Obtain ISIP, then begin immediate flow back at 1 BPM in order to "force close" the fracture. Flow back at 1-2 BPM until gel has broken as per pre-job test then go wide open in order to utilize the nitrogen to help bring back load. Shut-in for the night.
- 7. Swab/flow using nitogen to help recover load. Release packers and POOH. RIH with hydrostatic bailer and clean out sand to PBTD at 3895'. Set 2-3/8" production string at 3825' with seating nipple on bottom for receiving a plunger bumper spring. Swab until flow is established. Place well back on line.
- 8. NDBOP, NUWH, RD well service unit. Notify EA to file subsequent sundry. Evaluate production for automatic plunger lift system.

MRR 1/7/97

Capacities:		Burst:
2-3/8", 4.7#, J-55 tbg 2-7/8", 6.5#, J-55 tbg 5-1/2", 15.5#, K-55 csg 2-3/8" x 5-1/2", 15.5# annulus	0.1624 gals/ft (0.00387 Bbls/ft) 0.2431 gals/ft (0.00579 Bbls/ft) 0.9996 gals/ft (0.0238 Bbls/ft) 0.7686 gals/ft (0.0183 Bbls/ft)	7,700 psi (80% = 6,120 psi) 7,264 psi (80% = 5,811 psi) 4,810 psi (80% = 3,848 psi)

8/22/95



C. W. ROBERTS No. 9

PROPOSED COMPLETION

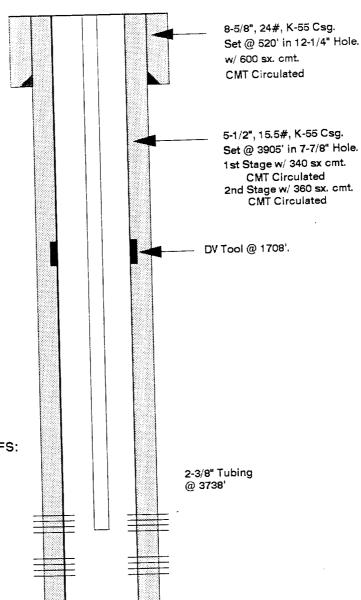
LOCATION:

1615' FNL & 1590' FEL, Unit G SW/4,NE/4, Sec. 17, T25N, R3W Rio Arriba County

SPUD DATE: 1/03/91 COMPL. DATE: 1/31/91 ELEVATION: 7286' KB 7273' GR

FORMATION TOPS:

B/Ojo Alamo 3492' T/Fruitland 3594' Fruitland Coals 3662' Pictured Cliffs 3768'



FRUITLAND COAL PERFS:

3662' - 3666' 3668' - 3673' 3678' - 3689'

3697' - 3702'

3704' - 3707' 3762' - 3768'

PROPOSED PERFS PICTURED CLIFFS:

3804' - 3820' 3840' - 3846'

> PBTD - 3895' TD - 3905'

TEAACO EXPLORATION & PRODUCTI... 3701 E. MAIN FARMINGTON, NM. 87409 (505) 326-2657

Report Date: 04/08/1996 Source: METER RUN Sample Date: 4/5/96

Station #: 191-135 Station Name: C. W. ROBERTS #9 Flowing Pressure: 47 psig Flowing Temp.: 63 F

Field: FRUITLAND

Method: c:\ezchrom\methods\cqmwet.met

File: c:\ezchrom\chrom\135.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	SG	GPM
Nitrogen Methane CO2 Ethane	0.357 88.519 0.128 5.929	0.000 896.110 0.000 105.162	0.003 0.490 0.002 0.062	1.586
propane i-Butane n-Butane i-Pentane n-Pentane Hexanes Heptanes Octanes	3.123 0.602 0.680 0.262 0.170 0.086 0.068 0.048	78.760 19.622 22.235 10.507 6.831 4.100 3.750 3.366 0.000	0.048 0.012 0.014 0.007 0.004 0.003 0.002 0.002	0.861 0.197 0.214 0.096 0.062 0.035 0.031 0.027
Ideal Total	100.000	1150.621	0.649	3.109

Gasoline Content Gross BTU/Real Cu. Ft. Propane GPM = 0.861 (@ 60 deg F, 14.730) Butane GPM = 0.411 Dry = 1153.888Gasoline GPM = 0.251 26# Gasoline GPM = 0.466 Sat. = 1135.088 Actual = 1153.888 Total GPM = 1.523(0.000 lbs. water/MMCF)

> Real Specific Gravity Calculated = 0.6502 On-Site Specific Gravity = 0.0000

> > Gas Compressability = 0.9972

Remarks: FLOW RATE 51 MCF/D

TEXACO EXPLORATION & PRODUCTION 3701 E. MAIN FARMINGTON, NM. 87409 (505) 326-2657

Report Date: 04/06/1996 Source: METER RUN Sample Date: 4/5/96

Station #: 191-127 Station Name: C. W. ROBERTS #7 Flowing Pressure: 61 psig

Flowing Temp.: 75 Field: PICTURE CLIFF

Method: c:\ezchrom\methods\cqmwet.met

File: c:\ezchrom\chrom\127.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	SG	GPM
Nitrogen Methane CO2 Ethane H2S propane i-Butane n-Butane i-Pentane n-Pentane Hexanes Heptanes Octanes	0.331 88.298 0.131 6.037 0.050 3.191 0.603 0.719 0.277 0.187 0.094 0.058 0.024 0.000	0.000 893.873 0.000 107.078 0.319 80.475 19.654 23.510 11.108 7.514 4.481 3.199 1.683 0.000	0.003 0.489 0.002 0.063 0.001 0.049 0.012 0.014 0.007 0.005 0.003 0.002 0.001 0.000	1.615 0.879 0.197 0.227 0.101 0.068 0.039 0.027 0.014

100.000 1152.894 0.650 3.166 Ideal Total

Gasoline Content Gross BTU/Real Cu. Ft. Propane GPM = 0.879 (@ 60 deg F, 14.730) Butane GPM = 0.424Dry = 1156.183Gasoline GPM = 0.248Sat. = 1137.34526# Gasoline GPM = 0.475 Actual = 1156.183 Total GPM = 1.551(0.000 lbs. water/MMCF)

> Real Specific Gravity Calculated = 0.6517 On-Site Specific Gravity = 0.0000

> > Gas Compressability = 0.9972

Remarks: FLOW RATE 56 MCF/D

Calculated Bottomhole Pressure from Surface Pressure								
Well	<u>Date</u>	<u>P</u> s	<u>S. G.</u>	D	<u>P</u> _B			
C. W. Roberts #4	5/22/94	432	0.633	3690	468			
C. W. Roberts #7	10/9/95	251	0.6517	3809	274			
C. W. Roberts #8	9/15/94	220	0.6855	3672	240			
Average		301	0.6567	3724	327			

2600 E. Bloomfield flwy, Farmington, New Mexico 87401 Phone (505)327-0491 FAX# (505)327-4333

BOTTOM HOLE PRESSURE REPORT

CUSTOMER: Texaco

WELL NAME & NUMBER: C. W. Roberts #4

ELEMENT NUMBER: 51376 ELEMENT RANGE: 0-2000

DATE RAN: 06-20-92 DATE PULLED: 06-27-92

REMARKS: Instrument set at 3685'

DATE/TIME	PRESSURE	Comments
06-20-92		Instrument on btm
1218	299.5	Well flowing
		Shut in Well
1300	299.5	15 min. readings
1315	318.1	15 min. readings
1330	331.6	
1345	336.8	
1400	340.9	
1415	345.1	
1430	348.2	
1445	351.3	
1500	353.4	
1515	354.4	
1530	355.4	30 min. readings
1600	358.5	30 min. readings
1630	361.7	
1700	364.8	
1730	367.9	•
1800	369.9	
1830	372	
1900	374.1	
1930	375.1	
2000	377.2	1 hr. readings
2100	380.3	I iii. Icaaliiga
2200	382.4	
2300	384.5	•
2400	385.5	
06-21-92		
0100	387.6	
0200	388.6	
0300	390.7	
0400	391.7	
0 500	392.7	
0600	. 393.8	2 hr. readings
0800	395.9	<u> </u>

BOTTOM HOLE PRESSURE REPORT

DATE/TIME	PRESSURE	COMMENTS
06-21-92		
1000	397.9	2 hr. readings
1200	400	
1400	401	
1600	403.1	
1800	404.1	
2000	405.1	
2200	406.2	
2400	407.2	
96-22-92		
0400	409.2	4 hr. readings
0800	411.3	
1200	413.3	
1600	414.4	
2000	415.4	
2460	416.4	
06-23-92		
0400	417.4	
0800	418.5	
1200	419.5	
1600	420.5	
2000	421.5	
2400	422.6	
06-24-92		8 hr. readings
0800	423.6	8 nr. readings
1600	424.6	
2400	425.6	
26-25-92		
0800	426.7	•
1600	427.7	
2400	429.7	·
06-26-92	40.5	
0800	431.8	
1600	432.8	
2400	433.8	-
06-27-92	424 0	
0800	434.9	END OF TEST
1020	434.9	Start out of hole TBG 400#

* * EVENT SUMMARY * * *

COMPANY : TEXACO EXPLORATION & PRODUCTION INC.

WELL NAME : C.W. ROBERTS #9

WELL LOCATION : RIO ARRIBA COUNTY, NEW MEXICO

PAGE : B

DATE : 05/21/91

FILE REF: F126521.DAT

Date Time MM/DD hh:mm:ss	Test Time hhhh.hhhh	Key Event	Pressure Psig	Temp Deg F	
5/14 11:52: 0 5/14 13: 0: 0 5/14 23: 0: 0 5/15 9: 0: 0 5/15 19: 0: 0 5/16 15: 0: 0 5/17 1: 0: 0 5/17 7: 0: 0	32.3000 42.3000 52.3000 62.3000 68.3000	INSTRUMENT & 3730' SHUT IN 240 HOURS SHUT IN 250 HOURS SHUT IN 260 HOURS SHUT IN 270 HOURS SHUT IN 280 HOURS SHUT IN 290 HOURS SHUT IN 300 HOURS SHUT IN 306 HOURS INSTRUMENT OFF BOTTOM	417.95 420.95 425.90 430.31 434.71 438.87 442.81 446.88 449.28	88.88 107.19 108.85 108.97 109.01 108.94 108.85 108.84 108.86	

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator <u>TEX</u>	100 E & P IN	C			Leas	e C.W.ROBERTS	Weil No.	8
Location of Well: Unit	tE	Sec	<u>17</u> Tw	p. <u>'25N</u>	Rge.	3W	County RICARF	RIBA
		NAME C	OF RESERV	OIR OR POC	L.	TYPE OF PROD (OIL OR GAS)	METHOD OF PROD (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Uppe Complet Lowe	ion	BLANC	O PICTURE!	D CLIFFS		GAS	FLOW	CSG.
Complet			O MESAVEF			GAS	FLOW	TBG.
Uppe	- 10	PR. Date shut-i		SHUT-IN	PRESSURE D			Tax vina via
Complete	ion	Date shut-i			Length of time		Si press. psig	Stablized (Yes or No) Stablized (Yes or No)
Completi							The section points	
Commenced	at (hour date			FLOW 1	EST NO. 1	Zana asadusina (II		
						Zone producing (U	LOWER	
TIME (hour.date) 9-8-94	LAPSED TIN		Completion	PRESSURE Lowe	or completion	PROD. ZONE TEMP.	REMA	RKS
9-9-94	24 HRS.	ļ	150	740	FARMI	NGTON APTA	BOTH ZONES SH	υ Π Ν
9-10-94 9-11-94	48 HR\$.		152 162	744	RH LNS	EDM		•
9-12-94	96 HRS.		180	746	NOV	1 1994		•
9-13-94	120 HRS		202	424	404	JIN	UPPER SHUTIN LO	WER FLOW 24 HRS
9-14-94	144 HRS		215	399		RFS FILE	WPER SHUTIN LOW	VER FLOW 24 HRS.
9-15-94	168 HRS		220	408		Hettin To	UPPER SHUTIN LOV	VER FLOW 24 HRS.
	· · · · · · · · · · · · · · · · · · ·	··· !				····		
oduction rate	ū	sed on		Bbls. in	Hours		Grav GOR	
				_	ru (Orifice or M <u>et</u>			
			MID-	-FLOW SH	HUT-IN PRES	SURE DATA		
Upper Completio		ate shut-in			Length of time s	nut-in	Si press. psig	Stablized (Yes or No)
Lower Completio	Hour, D	ate shut-in			Length of time si	nut-in	Si press. psig	Stabilized (Yes or No)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator <u>TEX</u>	ACO E & P	INC.					Lea	ee_	C.W.ROBERTS	Well No7	
Location of Well: Uni	itJ		Sec	17	Twp	'25N	Rge		3W .	County_RICAR	RIBA
	T		NAME C	FRESE	RVOIR	OR POO	•		TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD (Flow or Art. Lift)	D. PROD. MEDIUM (Tbg. or Csg.)
Uppe			BLANCO	PICTL	IRED CL	JFFS			GAS	FLOW	CSG.
Lowe Complete	- 1		BLANCO	MESA	VERDE				GAS	FLCW	TBG.
			PRE	-FLC	W SH	UT-IN	PRESSURE	DA	λΤΑ·		
Uppe		ur, Date	shut-ii	1			Length of time	sh	ut-in	Si press. psig	Stablized (Yes or No)
Lowe Complet	er Ho	ur, Date	shut-ii	1			Length of time	sh	iut-in	Si press. psig	Stabilized (Yes or No)
-					F	LOW T	EST NO. 1				
Commenced	at (hour, d	date)*						Ż.	one producing (Up	pper or Lower) LOWER	
TIME (hour, date)	LAPSED		Upper	Comple		SSURE Lowe	r completion		PROD. ZONE TEMP.	REM	ARKS
10 E 0E	24 H	De	_	190		0				BOTH ZONES SH LOWER LOGGED O	
<u>10–5–95</u> 6	48 H			195		0					•
7	72 H			199 218		0		+			<u> </u>
8	120 H			228		0	 	\downarrow			
9	1681			251		0				•	
10	1921			158		0			,	UPPER FLOW 24HR LOWER ZONE LOG	
11	240 H	IRS.		147		0				UPPER FLOW 24 H LOWER ZONE LOG	
roduction rate	a during to	et									
			no b			Bbls. in _	Hour	s		GravGOF	3
Gas		_		M	CFPD;	Tested thi	u (Orifice or Me	eter	r):		
				N	/ID-FL	OW SH	IUT-IN PRE	SS	URE DATA		
Upper Completi		r, Date	shut-in				Length of time	shu	ıt-in	Si press. psig	Stablized (Yes or No)
Lower	Hou	r, Date	shut-in				Length of time	shι	ıt-in	Si press. psig	Stablized (Yes or No)

the second of the second

State of New Mexico ENERGY and MINERALS DEPT.

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

WELL DELIVERABILITY TEST REPORT FOR 1994

BLANCO SO.		POOL SLOPE n= 0.85	FORMATION FICTURED CLIFFS	······································	COUNTY RIO ARRIBA			
COMPANY			WELL NAME AND NUM	MBER				
TEXACO E & P INC.			C.W.ROBERTS # 4					
UNIT LETTER M	SECTION 17	TOWNSHIP 25N	RANGE 3W	PURCHASING PIPELI EPNG	NE			
CSG O.D INCHES 5.5	CSG I.D INCHES 4.892	SETTING DEPTH - F 8201	EET	TBG O.D INCHES 2.375	TBG I.D INCHES 1.995	TOP TBG PERF - FT 3696		
GAS PAY FROM 3680		wELL PRO CASING	OUCING THROUGH TUBING X	GAS GRAVITY 0.663	GRAVITY X LENGTH 2450	1		
FROM 5-16-94	DATE OF FLOW TEST TO	5-22-94	DATE SHUT-IN PRES	SSURE MEASURED				
		PRESSURE	DATA - ALL PRESSU	URES IN PSIA				
(a) Flowing Csg Pressure (DWt) O	(b) Flowing Tbg Pressure (DWt) 142	(c) Flowing Meter Pressure (DWt) 120	(d) Flow Chart Static Reading 121	(e) Meter Error (Item c-Item d) -1	(f) Friction Loss (a-c) or (b-c) 22	(g) Avg. Meter Pressure (Intgr.) :20		
(h) Corr. Meter Pressure (g+e) 119	(i) Avg. Wellhead Press. Pt=(h+f) 141	(j) Shin Csg. Pressure (DWt) O	(k) Shut to Tbg. Pressure (DWt) 432	(l) Pc=high value of (j) or (k) 432	(m) Det. Pressure Pd=% of Pc 60 259	(n) Sep/Dehy Pr. (DWt)if Crit. Flw		
		FLOW RATI	E CORRECTION (METE	ER ERROR)				
Integrated Volume	- MCF/D	(Item c/Item a)	(Item c/Item d)^0	0.5	Corrected Volume			
74		0.992	0.996		Q= 73.7	MCF/D		
		WORKI	NG PRESSURE CALCUL	ATION	1			
(1-e^(-s))	1000*(Fc*Qm)^2	$R^2 = (1-e^{-s})^*$	1000*(Fc*Qm)^2	Pt^2	Pw^2 = Pt^2 + R^2	Pw = (Pw^2)^0.5		
0.163	480.08	78.36		19881	19959	141.3		
		DELIV	/ERABILITY CALCULA	TION	· -			
)/(Pc^2-Pw^2)]^n = 73.69358	* [(119439 /	/ 166665)^n =	(0.717)^n = ((0.753)] =	56 MCF/D		
REMARKS:								
	SUMMARY							
Item h	119	Psia	Company	TEXACO E	& P INC.			
Рс	432	Psia	Ву		red DBG	hori		
Q	74	MCF/D	Title	ENGINEER	ASSISTANT			
Pw	141	Psia	Witnesse	d By				
Pd	259	osia	Company	••••••				
٥	56	PGF/D				•		

NMOGCC (3) Aztec - MLK - / -