

Texaco Exploration and Production Inc

3300 N Butler Farmington NM 87401

January 23, 1995

STATE OF NEW MEXICO OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

Attention: David Catanach

RECEIVED

4.5.95

1119

Application for exception to NMOCD Rule 303-A: Downhole Commingle RE: **Oil Conservation Division** of Jicarilla C No. 18: 1850' FNL & 790' FEL, Unit H, Sec. 28-T25N-R5W, NMPM, Rio Arriba County, New Mexico

Dear Mr. Catanach:

Texaco Exploration and Production Inc. respectfully requests approval to downhole commingle the Otero Chacra Gas Pool and the Otero Gallup Oil Pool within the referenced well. The subject well was originally completed in the Otero Gallup in October of 1958. In July of 1966 the well was plugged back and recompleted in the Otero Chacra. The Gallup was producing 3 BOPD and 40-50 MCFD and had cumulative production of 42 MBO and 231 MMCF immediately prior to the plug back. The Chacra zone is currently producing 27 MCFD. We propose to drill out the CIBP set between these zones and downhole commingle the remaining production. We plan on installing a plunger lift system. Please accept the attached information in your consideration of this matter. Downhole commingling will result in economic recovery of additional reserves from two marginally productive zones that would otherwise not be recovered.

If you have any questions concerning this matter please contact Mr. Mark Reinhold at (505) 325-4397, ext 19. Your attention to this matter is greatly appreciated.

Sincerely,

Rie Det

Ted A. Tipton Operating Unit Manager

MRR/s

Attachments NMOCD-Aztec file

MAR 1 7 1995

Application for Exception to Rule 303-Segregation of production from pools

(1) Name and address of the operator:

Texaco Exploration and Production Inc. 3300 N. Butler Suite 100 Farmington, NM 87401

(2) Lease name, well number, well location, name of the pools to be commingled.

Lease Name:	Jicarilla C
Well Number:	18
Well Location:	1850' FNL & 790' FEL, Unit H, Sec. 28 T25N-R5W, NMPM
	Rio Arriba County, New Mexico
Pools to Commingle:	Otero Chacra and Otero Gallup

(3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached (Attachment I, II, III).

(4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

Attachment IV, dated September 8, 1965 is the last C-116 filed for Jicarilla C No. 18 prior to plug back in July of 1966. Cumulative Gallup production is 42 BO and 231 MMCF (state annual reports).

(5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted).

Production decline curves for both zones attached (attachment V and VI).

(6) Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottomhole pressure for each zone capable of flowing.

Chacra and Gallup shut-in pressure data obtained from offset wells during recent (September 1994) packer leakage tests:

Zone	Average, psig	<u>Range, psig</u>	# of Wells Tested
Chacra:	299	279-329	6
Gallup:	442	390-494	2

See attached Packer Leakage Tests - Attachment VII Recent bottom hole pressure data on this well is not available.

(7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

The Chacra zone produces less than 0.5 BPD with very minimal condensate. A ported seating nipple and standing valve (ball and seat) will be installed above a production packer to prevent any buildup of Chacra fluids that might accumulate during an extended shut-in period from entering and logging off the Gallup interval (see wellbore diagram of proposed completion - attachment VIII). The Gallup zone was not producing any water prior to plug back. We also plan on installing a plunger lift system. <u>Application for Exception to Rule 303-Segregation of productiom from pools</u> <u>Requirements Continued.</u>

•

(8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

Current Otero	Chacra Prod.	Anticipated Otero	Gallup Production
Oil, BOPD	0	Oil, BOPD	3
Gas, MCFD	27	Gas, MCFD	40
Water, BWPD	0	Water, BWPD	0

The combined production from the Chacra and Gallup zones will be approximately 67 MCFD, 3 BOPD and 0 BWPD.

(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

Using our <u>anticipated</u> rates as shown in item #8 as an example, allocation factors will be calculated as follows:

	<u>Gas</u>	<u>Oil</u>
Chacra	27/(27+40)=40%	0/(0+3)=0%
Gallup	40/(27+40) = 60%	3/(0+3) = 100%

The <u>actual</u> production data obtained prior to and following the commingling process will be presented to the Aztec NMOCD District office to arrive at allocation factors for splitting the future production stream.

10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

4.5

Since we operate all wells located in offset enacing units no other operators have been

Attachment I

ŝ

Form C-128 Revised 5/1/57

NEN MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Cherator SK5LLY OIL COMPANY Lease JICARILLA "ell No. C-16 Unit Letter, N Section 28 Township 25 BORTH Range 5 WSST NHEM Located 1850 Feet From THE NORTH Line, 750 Feet From THE LAST Line County, ELO MARIDA C. L. Elevision Pool Peet Grange AG Acreage Name of Producing Formation Galump Pool The start and Acreage AG Acreage Name of Producing Formation one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes_No If answer is "yes," Type of Consolidation 3. If the answer to question two is "no," list all the owners and their respective interests below: EEF. GLO Flat dated: 4 November 1822 Owner Land Description Section.8 Section.8 Section.8 Section A 28	Section A.			I	Date September 2, 1958	<u></u>
Operation C-18 Unit Letter H Section 28 Township 25 HORTH Range 5 MERK Located 1850 Feet From THE MORTH Line 790 Feet From THE MAST Line County TIO URRIBA G. L. Elevistion * Dedicated Acreage Acreage <t< th=""><th>Quarator SI</th><th>KELLY OTL COMPANY</th><th>i leas</th><th>JICARILL</th><th>A</th><th></th></t<>	Quarator SI	KELLY OTL COMPANY	i leas	JICARILL	A	
Section 8 Section 8 Section 8 Section 9 Sectio	Wall No C-18 (1	Init Letter H	Section 28	Township 2	5 NORTH Range 5 WEST	NMPM
Dounty_EIO INRIBA G. L. Elevision Pedicated Acreage 40 Acres Name of Producing Formation Callun Pool Indestganded 1 is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes No 2: If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YesNo If answer is "yes," Type of Consolidation No If answer is "respective interests below: 3: If the answer to question two is "no," list all the owners and their respective interests below: Each Plat dated: 4 November 1852 Owner Land Description Section.B	Located 1850	Feet From THE	S NORTH Line.	790 Feet	From THE EAST	Line
Name of Producing Formation Gallen Pool Indext gasted 1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes No . 2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No . . 3. If the answer to question two is "no," list all the owners and their respective interests below: . No .	County FIO ARRIE	BA G. L. I	Flevation 4	Dedicated	i Acreace	Acres
1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes <u>x</u> No	Name of Producing	a Formation a	1 7 9 mm	Pool n	nda mil can the d	
YesNo	1. Is the Opera:	tor the only own	er* in the dedi	cated acreage out	tlined on the plat below?	
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YesNo If answer is "yes," Type of Consolidation	Yes X	No •		2	•	
consolidated by communitization agreement or otherwise? YesNo If answer is "yes," Type of Consolidation	2. If the answer	r to question on	e is "no," have	the interests of	f all the owners been	
"yes," Type of Consolidation	consolidated	by communitizat	ion agreement o	r otherwise? Yes	sNo If answer	is
3. If the answer to question two is "no," list all the owners and their respective interests below: Owner Land Description	"yes," Type o	of Consolidation		·		
Delow: Istr. GD Flat dated: 4 movember liez Owner Land Description Section. B	3. If the answe:	r to question two	o is "no," list	all the owners a	and their respective inte	rests
Owner Land Description Section. B	below:		ner. GLU Plat	dated: 4 Novembe	er 1022	
Jane Description Section. 8 0		0		I and Dear		
Section. B Section. B Section. B Section A Above is true and complete to the best of my knowledge and belief. SKULY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box 126, Parmington, New Yer Address This is to certify that the well location shown on the plat in Section B 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.	<u>.</u>	Jwner		Land Desci	ription	
Section.B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. SKRLLY OIL COMPANY (Operator) (Signed) P. E. Cospar (Representative) Box A26, Parmington, New New Address This is to certify that the well location shown on the plat in Section B 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.						
Section.B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. SKNLY OIL COMPANY (Operator) (Signed) P. E. Cospar (Representative) Pox A26, Parmington, New Mer Address This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision ano that the same is true and correct to the best of my knowledge and belief.						
Section.B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. SKULX OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A26, Parmington, New New Address This is to certify that the well location shown on the plat in Section B 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.						
Section. B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. SKIJLY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A36, Parmington, New Mer Address This is to certify that the well location shown on the plat in Section B 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.						·····
Section. B This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. SKRLLY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A36, Parmington, New New Address This is to certify that the well location shown on the plat in Section B 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.						
Section 5 Image: Section 6 Image: Section 7	Section B					
28 This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. 28 SKEJLY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box L26, Parnington, New Mer Address 28 This is to certify that the well location shown on the plat in Section B 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.		T				
28 This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. 28 SKELLY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A26. Parmington, New Mer Address 28 This is to certify that the well location shown on the plat in Section B 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.						
Image: Section A above is true and complete to the best of my knowledge and belief. SKELLY OIL COMPANY (Operator) (Signed) P. E. Cospar (Representative) Pox A26, Paraington, New New Address This is to certify that the well location shown on the plat in Section B 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.					This is to certify that	the
above is true and complete bove is true and complete to the best of my knowledge and belief. SKELLY OIL COMPANY (Operator) (Signed) P. E. Cospar (Representative) Box b26. Parsington, New Mex Address This is to certify that the well location shown on the plat in Section B 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.					information in Section	A
to the best of my knowledge and belief. SKULY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A26, Parmington, New Mer Address This is to certify that the well location shown on the plat in Section B 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.				, i	above is true and compl	ete
and belief. SKELLY OIL COMPANY (Operator) (Signed) P. E. Cosper (Representative) Box A26, Parmington, New Mer Address This is to certify that the well location shown on the plat in Section B 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.				351	to the best of my knowl	edge
28 SKRJLY OIL COMPANY (Operator) 28 SKRJLY OIL COMPANY (Operator) 28 Box 526, Parsington, New Mex Address This is to certify that the well location shown on the plat in Section B 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.				8/	and belief.	
28 Standard Gill CORPANY (Operator) (Signed) P. E. Cosper (Representative) Box A26, Farmington, New New Address This is to certify that the well location shown on the plat in Section B 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.						
28 (Derator) 28 (Signed) P. E. Cosper (Representative) Box A36, Farmington, New New Address Address This is to certify that the well location shown on the plat in Section B 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.				And a state of the	SEMILI GIL COMPANY	
28					(Operator)	
28 It is is to certify that the well location shown on the plat in Section B 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.					(Signed) P. F. Commun	
28 Image: Description of the sector of th					(Representative)	
28 Box A26, Farmington, New Mar Address This is to certify that the well location shown on the plat in Section B 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.					(http://dointerity/	
Address Address This is to certify that the well location shown on the plat in Section B 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.	1				Box 526, Parmington, N	ew Mert
This is to certify that the well location shown on the plat in Section B 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.			28		Address	
This is to certify that the well location shown on the plat in Section B 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.						
This is to certify that the well location shown on the plat in Section B 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.						
well location shown on the plat in Section B 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.			•		This is to certify that	the
plat in Section B 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.					well location snown on	tne
					from field notes of act	lottea
my supervision and that the same is true and correct to the best of my knowledge and belief.					surveys made by me or u	nder
same is true and correct to the best of my knowledge and belief.					my supervision and that	the
the best of my knowledge and belief.					same is true and correct	t to
belief.					the best of my knowledge	e and
					belief.	
Date Surveyed 30 AUGUST 1958					Date Surveyed 30 AUGUST	1958
					n P	a
Jame V. Leere					Vang V. Leer	
Registered Protessional					Engineer and/or land Su	rvevor
JAMES P. LEESE					JAMES P. LEESE	
0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0 Certificate No 1463	0 330 660 990 132	0 1650 1980 2310 264	0 2000 1500	1000 500 0	Certificate No. 1463	

Attachment I

EXICO OIL CONSERVATION COMMISS Ŕ WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

			Lease				Well No.
Skelly	041 Company	<u>y</u>		cerille		<u></u> .	18 /
it Letter	Section	Township	Range	_11	County	Dia Ame	ha
tug Footgre Loca	48 Ition of Well:	63-8				SLU ALL	
1850	fact from the	Borth	(no. ma) 790	6		Best	1450
ound Level Elev:	Producing F	ormation	Pool	Itee	nom the		Dedicated Acreage:
6651° DF		Chaera	Oter	o Chaer	18		160 Acre
1. Outline the	e acreage dedic	ated to the sub	ject well by colore	l pencil o	r hachure	marks on th	e plat below.
2. If more that interest an	an one lease i d royalty).	s dedicated to t	he well, outline eac	h and ide	ntify the c	ownership th	ereof (both as to workin
 If more that dated by co Yes 	n one lease of ommunitization,	different owners unitization, forc answer is "yes,"	hip is dedicated to e-pooling. etc? ' type of consolidati	on	have the i	nterests of	all owners been consol
If answer i this form if No allowab forced-pool sion.	s "no," list the necessary.) le will be assig ing, or otherwise	e owners and tra med to the well w e) or until a non-s	until all interests ha	h have ac ve been c ating suc	tually bee onsolidate h interest:	en consolida ed (by comr s, has been	ted. (Use reverse side nunitization, unitization approved by the Commis
						1	
		Sec. 28		• • • • • • • • • • • • • • • • • • •	790 1	I hereby a tained her best of my (ORIGIN Stand Name Distric Position Skelly Company July 6 Date	ertify that the information cor ein is true and complete to the knowledge and belief. AL) Pl. Z. Pho et Superintendent 011 Company , 1966
	1					I hereby shown on	certify that the well locatio his plat was plotted from fiel
	 + 					is true and knowledge	ctual surveys made by me of supervision, and that the sam of correct to the best of m and belief.
	+ 					Date Surveye Attgue Registered F and/or Land	ictual surveys made by me i supervision, and that the san and correct to the best of m and belief.



perator SEELLY OIL CORPANY			م	0 100	Tony.	40.73 FD				<u>ö</u>	unty 🖌	NA AN	Ä			
ddress DBAR 32 510 - FAXING	TOR, ME		811			ب ً ۲	YPE OI		Sched	iled 🚰		Сотр	etion		ľ	Spec
LEASE NAME	MELL		L LO	CATION		DATE OF TEST		OKE T ZE PR	BG.	DAILY LLOW-	LENGTH OF Test	WATER	GRAV.	OIL		TEST GAS
FARMING "F TICHATILA "F JICHATILA "F JICALILLA "F JICALILLA "F JICALILLA "F	~~~~???????????????????????????????????	"你怎么我?我我我的你的你?你吗?""我不是	****************		zzariazzerzazzer	111111111111111	Que Que Que Que Que An An Que Que Que Que Que An An An An Que An An An		00100000000000000000000	230-3-00-44004-ja	**	000000000000000000	33333333333333333333333	はちよるのでのようでのひょうなのはな		<u> </u>
No well will be assigned an allo During gas-oil ratio test, each located by more than 25 percent. Opera increased allowables when authorized by	weble grea well shall ator is enci y the Comm	ter the be pro	n the am oduced a	ount of c advantur	il producination and the second secon	ced on the official eeding the top uni its 25 percent tole	test. rance in	order that	s pool in Specifica	which we n be assigned	a di a Barana Ba	I her is true ledge	eby cei and co	tify tha mplete ief.		it the abovito to the best
will be 0.60. Report casing pressure in lieu of	f tubing pre		or any w	ell prod	icing thr	ough casing.						5		1.000		arris fa
Mail original and one copy of ti Rule 301 and appropriate pool rules.	this report	to the	district	ollice o	e Ne	W MEXICO UII CON	servation							(Sig		ature) and
												ត		8 So	200	1965
														,		

Attachment V

Jicarilla C #18 Otero Gallup Production From NMOCD Annual Reports



MRR 11/22/94

AHachment II

JICARILLA C 000018 DTERD (CHACRA) CK



YEARS

BOPD BWPD

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

AHachment VII-a

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXAC	OE&PIN	0				Leas		<u></u>	Veli No. <u>9</u>	
Location of Well:	Unit K		Sec	28	Twp.	25N	Age.	5 W	County		

	NAME OF RESERVOIR OR POOL	TYPE OF PROD.	METHOD OF PROD.	PROD. MEDIUM
Upper Completion	BLANCO PICTURED CLIFFS SO.	GAS	SHUTIN	CSG.
Lower Completion	OTERO CHACRA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilzed (Yes or No)
Lower	Hour, Date shut-in	Length of time shutin	Si press. psig	Stablized (Yes or No)
<u>Completion</u>	1	_		, , , , , , , , , , , , , , , , , , ,

FLOW TEST NO. 1

Commenced	at (hour, date)*			Zone producing (U)	pper or Lower) LOWER
TIME	LAPSED TIME	P	RESSURE	PROD. ZONE	REMARKS
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.	
9-9-94	24 HRS.	0	290		BOTH ZONES SHUT IN
9-10-94	48 HRS.	0	311		• • • •
9-11-94		0	327		
9-12-94	72 HRS.	0	328		
9-13-94	96 HRS.	0	329		
9-14-94	120 HRS.	0	329		
9-15-94	144 HRS.	0	330		
9-16-94	168 HRS.	0	330		UPPER SHUT IN: LOWER FLOWING
9-17-94	192 HRS.	0	330		UPPER SHUTIN : LOWER FLOWING

Production rate during test

Oil _____BOPD based on ______Bbis. in _____Hours _____ Grav. ____GOR _____

Gas__

_MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
			· ·	*

Page Revised 10/10/78

AHachment VII-6

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC.					Lease	JICARILLA C	Weli No. <u>10</u>	
Location of Well: L	JnitM	_Sec2	2_ Twp.	25N	Rge	5W	County_RIO ARRIBA	•

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO PICTURED CLIFFS SO.	GAS	SHUTIN	CSG.
Lower Completion	OTERO CHACRA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Up Compl	per etion	Hour, Date shut-in	Length of time shu	t—in Si press. psig	Stablized (Yes or No)
Lov	ver	Hour, Date shut-in	Length of time shu	t—in Si press. psig	Stablized (Yes or No)
Compl	etion				

FLOW TEST NO. 1

Commenced	at (hour, date)*			Zone producing (U)	pper or Lower) LOWER			
TIME	LAPSED TIME	PF	RESSURE	PROD. ZONE	REMARKS			
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.				
9-9-94	24 HRS.	183	275		BOTH ZONES SHUT IN			
9-10-94	48 HRS.	196	288					
9-11-94		200	291					
9-12-94	72 HRS.	203	293					
9-:334	96 HR\$.	206	295					
9-14-94	120 HRS.	208	296					
9-15-94	144 HRS.	210	297					
9-16-94	168 HRS.	211	95		UPPER SHUT IN; LOWER FLOWING			
9-17-94	192 HRS.	212	97		UPPER SHUTIN : LOWER FLOWING			

Production rate during test

.

Oil ______BOPD based on ______Bbls. in _____Hours _____ Grav. ____GOR _____

Gas ____

_MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

.

.

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilized (Yes or No)
Lower Completion	Hour. Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or NO)

Pace Revised 10/10.7

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

AHachment VII-c

Operator	TEXACO E & P INC	<u>C.</u>				Lease_	JICARILLA (۷ اا	Vell No. <u>11</u>	
Location of Well: 1	Unit L	Sec.	27	Twp.	25N	Rge.	5W	County		

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO PICTURED CLIFFS SO.	GAS	SHUTIN	CSG.
Lower Completion	OTERO CHACRA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Lower	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilzed (Yes or No)
<u>Completion</u>				l

FLOW TEST NO. 1

Commenced	at (hour. date)*		······································	Zone prcaucing (U	pper or Lower) LOWER
TIME	LAPSED TIME	Pf	RESSURE	PROD. ZONE	REMARKS
(hour.date)	late) SINCE* (Upper Completion Lower completion		Lower completion	TEMP.	
9-9-94	24 HRS.	92	265		BOTH ZONES SHUT IN
9-10-94	48 HRS.	95	289		
9-11-94		100	291		
9-12-94	72 HR\$.	104	293		
9-13-94	96 HRS.	108	295		
9-14-94	120 HRS.	112	296		
9-15-94	144 HRS.	114	296		• • • •
9-16-94	168 HRS.	115	110		UPPER SHUT IN: LOWER FLOWING
9-17-94	192 HRS.	116	106		UPPER SHUTIN : LOWER FLOWING

Production rate during test

Oil ______BOPD based on ______Bbls. in _____Hours _____ Grav. ____GOR _____

Gas _____

____MCFPD; Tested thru (Orifice or Meter):____

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour. Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

AHachment	VII -	d
-----------	-------	---

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXA	COE&PINC	<u>D</u>				_Lease_	JICARILLA C	۱ 	Veil No. <u>13</u>	
Location of Well:	Unit	8	Sec.	33	Twp.	25N	Rge.	5W	County_		

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO PICTURED CLIFFS SOUTH	GAS	FLOW	CSG.
Lower Completion	OTERO CHARCA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				

FLOW TEST NO. 1

Commenced	at (hour. date)*			Zone producing (U	pper or Lower) LOWER			
TIME	LAPSED TIME	PF	RESSURE	PROD. ZONE	REMARKS			
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.				
9-9-94	24 HRS.	154	84		BOTH ZONES SHUT IN			
9-10-94	48 HRS.	157	170					
9-11-94		160	226					
9-12-94	72 HRS.	163	240					
9-13-94	96 HRS.	169	253					
9-14-94	120 HRS.	170	267					
9-15-94	144 HRS.	171	279					
9-16-94	168 HRS.	172	32		UPPER SHUT IN: LOWER FLOWING			
9-17-94	192 HRS.	172	37		UPPER SHUTIN : LOWER FLOWING			

Production rate during test

Oil _____BOPD based on _____Bbls. in _____Hours _____ Grav. ____GOR___ Gas _____

_____MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour. Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour. Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
			· · · ·	

Page Revised 10/10/78

Page Revised 10/10/7:

AHachment VII-e

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXA	COE&PIN	C			·	Lease_	JICARILLA C		Veli No	<u>14E</u>	<u></u>	
Location of Well:	Unit_	D	_Sec	27 1	「wp	25N	Rge	5W	County_	RIOA	RRIBA		-

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	OTERO GALLUP	OIL	FLOW	TRG
Lower Completion	BASIN DAKOTA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour. Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes c: No)
-OWOL	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				

FLOW TEST NO. 1

Commenced	at (hour, date)*			Zone producing (U	pper or Lower) LOWER
TIME	LAPSED TIME	PA	ESSURE	PROD. ZONE	REMARKS
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.	
9-9-94	24 HRS.	389	322		BOTH ZONES SHUT IN
9-:0-94	'48 HRS.	420	328		
9-11-94	72 HRS.	437	330		
9-12-94	96 HRS.	457	335		
9-13-94	120 HRS	479	336		
9-14-94	144 HRS.	487	30		UPPER SHUT IN: LOWER FLOWING
9-15-94	168 HRS.	494	32		UPPER SHUTIN : LOWER FLOWING

Production rate during test

 Oil _______BOPD based on _______Bbls. in ______Hours ______Grav. ____GOR ______

Gas _____

____MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilzed (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)

.

AHachment VII-f

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXA	COE&PINC)				Lease_	JICARILLA_C	Weil No. <u>15</u>	
Location of Well:	Unit	a	Sec.	34	Twp.	25N	Age.	5W	County_RIO ARRIBA	

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUN (Tbg. or Csg.)
Upper Completion	BLANCO PICTURED CLIFFS SOUTH	GAS	FLOW	CSG.
Lower Completion	OTERO CHARCA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No.
 Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No:
Completion				

FLOW TEST NO. 1

Commenced	at (hour, date)*		Zone producing (Upper or Lower) LOWER				
TIME	LAPSED TIME	P	RESSURE	PROD. ZONE	REMARKS		
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.			
9-9-94	24 HRS.	85	277		BOTH ZONES SHUT IN		
9-10-94	48 HRS.	89	279				
9-11-94		95	280				
9-12-94	72 HRS.	98	281				
9-13-94	96 HRS.	105	282				
9-14-94	120 HRS	107	283				
9-15-94	144 HRS.	109	284				
9-18-94	168 HRS.	111	46		UPPER SHUT IN; LOWER FLOWING		
9-17-94	192 HRS.	112	42		UPPER SHUTIN : LOWER FLOWING		

Production rate during test

Oil _____BOPD based on _____ Bbis. in _____Hours _____ Grav. ____GOR _____

Gas _____

MCFPD; Tested thru (Orffice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour. Date shut-in	Length of time shut—in	Si press. psig	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)

Attachment VII-q

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXACO E & P IN	NC				Lease_	JICARILLA C	Well No. <u>17</u>	<u> </u>
Location of Weil:	Unitd	Sec	28	Twp	2 <u>5N</u>	Rge	<u>5W</u>	County_RIO ARRIEA	

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO PICTURED CLIFFS SOUTH	GAS	FLOW	CSG.
Lower Completion		GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				

FLOW TEST NO. 1

Commencea	at (hour, date)*		Zone producing (Upper or Lower) LOWER		
TIME	LAPSED TIME	PR	ESSURE	PROD. ZONE	REMARKS
(hour.date)	SINCE*	Upper completion	Lower completion	TEMP.	
9-9-94	24 HRS.	135	294		BOTH ZONES SHUT IN
9-10-94	48 HR\$.	137	299		
9-11-94		137	304		• • • •
9-12-94	72 HRS.	138	306		
9-13-94	96 HRS.	138	307		
9-14-94	120 HRS.	139	308		
9-15-94	144 HRS.	139	309		• • • •
9-16-94	168 HRS.	140	114		UPPER SHUT IN: LOWER FLOWING
9-17-94	192 HRS.	140	112		UPPER SHUTIN : LOWER FLOWING

Production rate during test

.

Oil	BOPD based on_	 Bbls. in _	Hours	Grav	GOR

Gas_

_MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				
Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				

Page Revised 10/10/7.

Page = Revised 10/10/78

Attachment VII-h

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator_	TEXACO E & P	1NC.	<u></u>		Lease	JICARILLA	Well C No. 27E	_
Location of Well: L	Jnit_B	Sec	<u>33</u> Twp	_25N	Rge	5W	County_RIO ARRIBA	

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	OTERO GALLUP	GAS	FLOW	TBG.
Lower Completion	BASIN DAKOTA	GAS	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilized (Yes or No)
Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion				

FLOW TEST NO. 1

Commenced	at (hour, date)*	<u>, , , , , , , , , , , , , , , , , , , </u>	Zone producing (Upper or Lower) LOWER		
TIME LAPSED TI		Pf	RESSURE	PROD. ZONE	REMARKS
(hour.date)	SINCE*	Upper Completion	Lower completion	TEMP.	
9-9-94	24 HRS.	279	702		BOTH ZONES SHUT IN
9-10-94	48 H F IS.	320	718		
9-11-94		327	725		
9-12-94	72 HRS.	346	739		
9-13-94	96 HRS.	359	745		
9-14-94	120 HRS.	367	748		
9-15-94	144 HRS.	375	750		
9-16-94	168 HRS.	385	360		UPPER SHUT IN: LOWER FLOWING
9-17-94	192 HRS.	390	369		UPPER SHUTIN : LOWER FLOWING

Production rate during test

Oil _____ BOPD based on _____ Bbls. in _____ Hours _____ Grav. ____ GOR _____

Gas ____

__MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Longth of time shut—in	Si press. psig	Stablized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stabilized (Yes or No)

Attackment VIII-a



11/12/94

AHachusent VIII-6



11/12/94