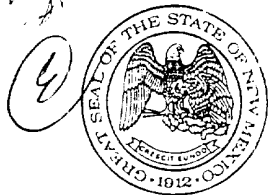


STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131



**ADMINISTRATIVE ORDER DHC-1119**

Ted A. Tipton  
Texaco Exploration & Production, Inc.  
3300 North Butler Avenue  
Farmington, New Mexico 87401

Attention: Ted A. Tipton

RECEIVED  
APR 11 1985

OIL CON. DIV.  
DIST. 2

*Jicarilla 'C' Well No. 18  
Unit H, Section 28, Township 25 North, Range 5 West, NMPM,  
Rio Arriba County, New Mexico.  
Otero Chacra and Otero Gallup Pools*

Dear Mr. Tipton:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 20 barrels per day, and total water production shall not exceed 40 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Otero Chacra Pool	Oil	0 %	Gas	40 %
Otero Gallup Pool	Oil	100 %	Gas	60 %



*Division Order DHC-1119*  
*Texaco exploration & Production, Inc.*  
*April 7, 1995*  
*Page 2*

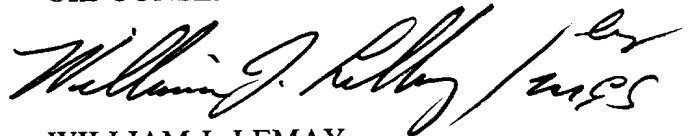
---

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 7th day of April, 1995.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "William J. Lemay", followed by a large, stylized flourish or mark.

WILLIAM J. LEMAY  
Director

S E A L

WJL/BES

cc: Oil Conservation Division - Aztec ✓



## **Ernie Busch**

---

**From:** Ernie Busch  
**To:** David Catanach  
**Subject:** TEXACO (DHC)  
**Date:** Tuesday, March 28, 1995 8:05AM  
**Priority:** High

JICARILLA C #18  
H-28-25N-05W  
RECOMMEND: APPROVAL

**EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS**

Client: Weatherford  
 Sample ID: Sump Sludge  
 Laboratory Number: 8220  
 Chain of Custody: 4111  
 Sample Matrix: Soil  
 Preservative: Cool  
 Condition: Cool & Intact

Project #: 91327-01  
 Date Reported: 03-07-95  
 Date Sampled: 02-15-95  
 Date Received: 02-15-95  
 Date Extracted: 02-16-95  
 Date Analyzed: 03-02-95  
 Analysts Requested: TCLP

Parameter	Concentration	Det. Limit	Regulatory Limits
(mg/L)	(mg/L)	(mg/L)	(mg/L)
-----			
Vinyl Chloride	ND	0.006	0.2
1,1-Dichloroethene	ND	0.006	0.7
2-Butanone	0.010	0.006	200
Chloroform	ND	0.006	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	0.024	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5
-----			
Parameter			Percent Recovery
Trifluorotoluene			112 %
Bromofluorobenzene			115 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
 Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.  
 Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

ND = Parameter not detected at the stated detection limit.

Comments: 5 Point Composite of Sump Sludge and Storage Barrels.  
 Farmington, NM.

Analyst

Reviewer



Texaco Exploration and Production Inc.

1890 N. Butler  
Farmington, NM 87401

January 23, 1995

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

RECEIVED  
MAR 16 1995

Attention: David Catanach

OIL CON. DIV.

RE: **Application for exception to NMOCD Rule 303-A: Downhole Commingle  
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,

Ted A. Tipton  
Operating Unit Manager

MRR/s

Attachments  
NMOCD-Aztec  
file



(1) **Name and address of the operator:** Texaco Exploration and Production Inc.  
3300 N. Butler Suite 100  
Farmington, NM 87401

- 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

- Attached (Attachment I, II, III).

- 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).

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

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

<u>Zone</u>	<u>Average, psig</u>	<u>Range, psig</u>	<u># of Wells Tested</u>
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.

- 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.



**Application for Exception to Rule 303-Segregation of production from pools**  
**Requirements Continued.**

- (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.

<u>Current Otero Chacra Prod.</u>		<u>Anticipated Otero Gallup Production</u>	
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 anticipated 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 actual 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.

Since we operate all wells located in offset spacing units no other operators have been notified of our desire to downhole commingle. An intent sundry was filed with the Bureau of Land Management, Albuquerque District Office, Rio Puerco Resource Area.



NEW MEXICO OIL CONSERVATION COMMISSION  
Well Location and Acreage Dedication Plat

Section A.

Date September 2, 1958

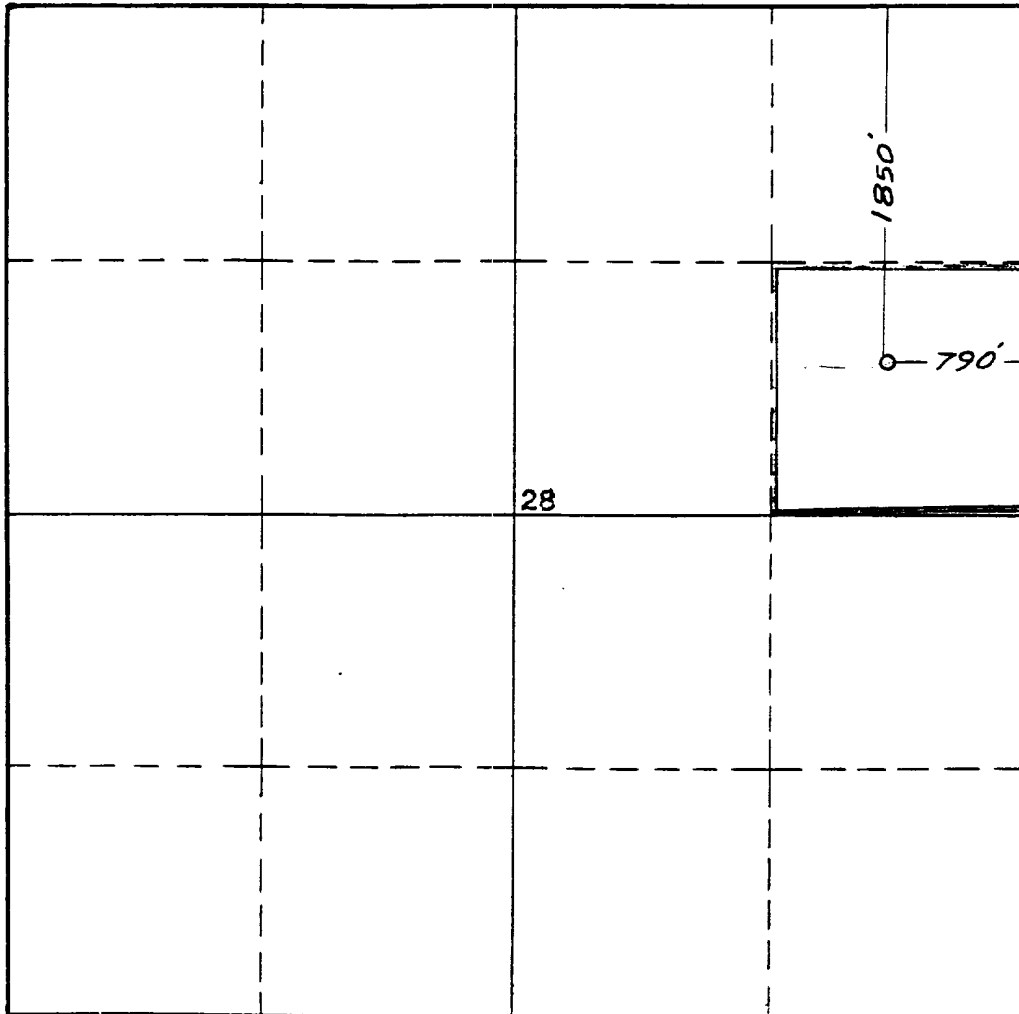
Operator SKELLY OIL COMPANY Lease JICARILLA  
Well No. C-18 Unit Letter H Section 28 Township 25 NORTH Range 5 WEST NMPL  
Located 1850 Feet From THE NORTH Line, 790 Feet From THE EAST Line  
County RIO ARriba G. L. Elevation \* Dedicated Acreage 40 Acres  
Name of Producing Formation Gallup Pool Undesignated

1. Is the Operator the only owner\* in the dedicated acreage outlined on the plat below?  
Yes X 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       . 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:  
REF. GLO Plat dated: 4 November 1882

Owner

Land Description


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.

SKELLY OIL COMPANY  
(Operator)

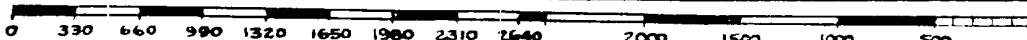
(Signed) P. E. Cosper  
(Representative)

Box 426, Farmington, 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.

Date Surveyed 30 AUGUST 1958

James P. Leese  
Registered Professional  
Engineer and/or Land Surveyor  
JAMES P. LEESE





**EXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-128  
 Effective 1-4-65

All distances must be from the outer boundaries of the Section.

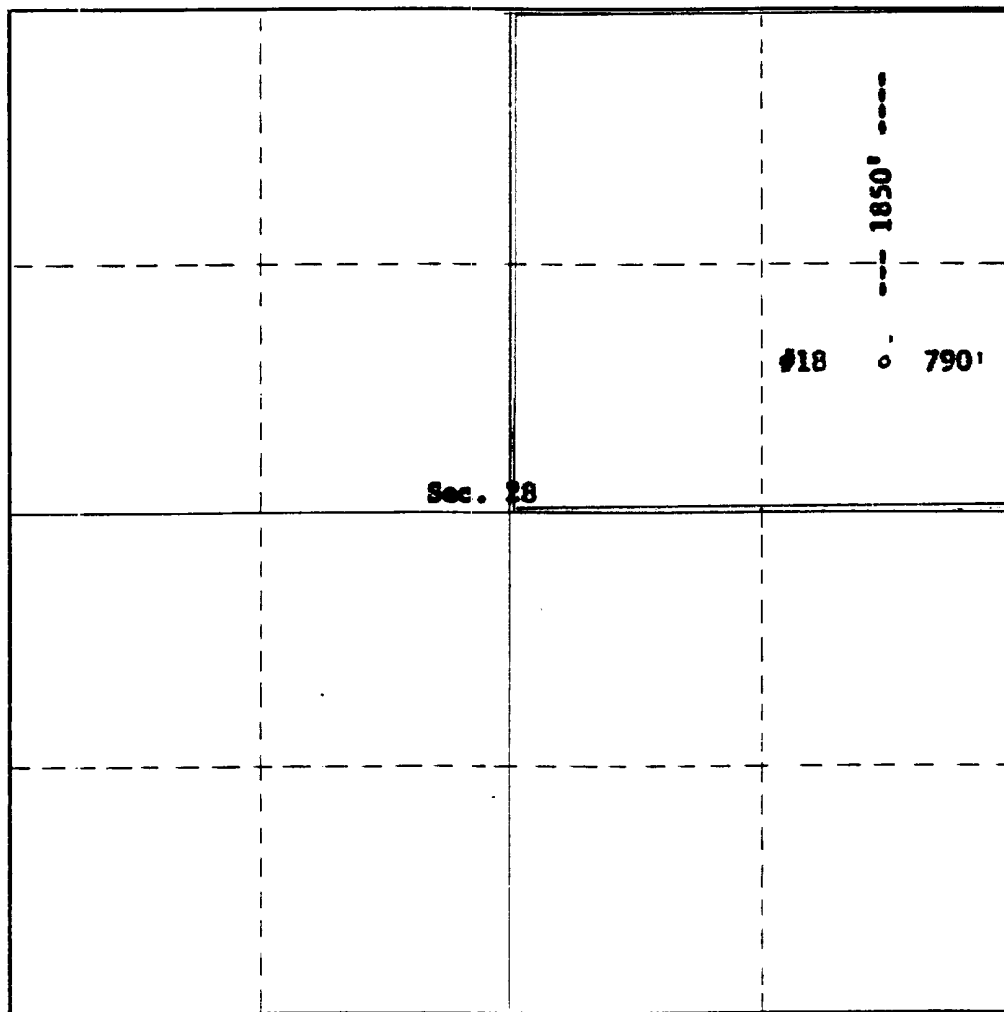
Operator <b>Skelly Oil Company</b>			Lease <b>Jicarilla "C"</b>		Well No. <b>18</b>
Unit Letter <b>"A"</b>	Section <b>28</b>	Township <b>25-N</b>	Range <b>5-W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well:					
<b>1850</b> feet from the <b>North</b> line and		<b>790</b> feet from the <b>East</b> line			
Ground Level Elev. <b>6651' DF</b>	Producing Formation <b>Chacra</b>	Pool <b>Otero Chacra</b>		Dedicated Acreage: <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes    ☐ No    If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

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

(ORIGINAL SIGNED) **H. E. ...**

Name  
**District Superintendent**

Position  
**Skelly Oil Company**

Company  
**July 6, 1966**

Date

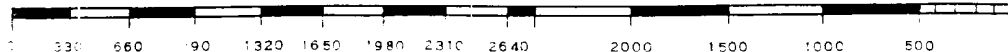
*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed  
**August 30, 1958**

Registered Professional Engineer and/or Land Surveyor

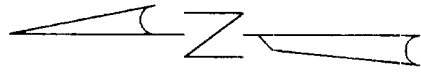
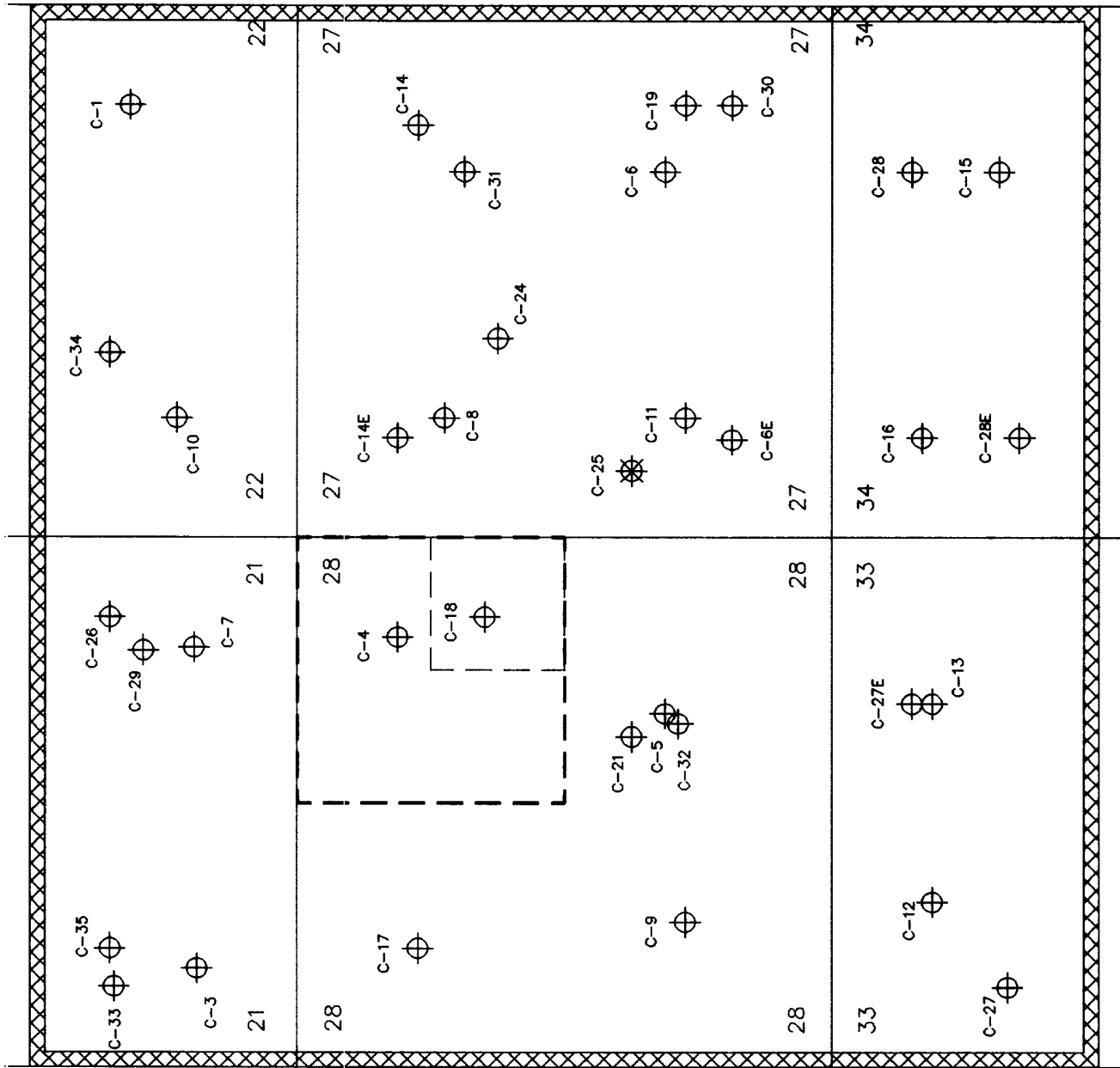
Original Signed - **James P. Lease**

Certificate No.  
**1463**





# JICARILLA "C" LEASE



T25N, R5W

CONVENTIONAL WELL



OTERO GALLUP SPACING UNIT



OTERO CHACKRA SPACING UNIT



TEXACO OPERATED LEASE BOUNDARY



FARMINGTON OPERATING UNIT  
DENVER DIVISION  
DENVER, COLORADO

AREA: JICARILLA APACHE INDIAN RESERVATION  
RIO ARriba CO., NEW MEXICO  
DESCRIPTION: JICARILLA "C" LEASE  
T 25 N - R 05 W

DATE: 1-85	BY: RSD	REVISED:
INTERVAL:	SCALE: 1" =	

Attachment III



NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

Attachment 1 V  
C-1116  
Revised 1-1-65

Operator		County		Pool		OTISAC-OIL LIFT		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO	
LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO	
LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO	
LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO	
LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		PROD. DURING TEST		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO		GAS - OIL RATIO	
PARMING "A"	2	B	1	2	2	8-26-65	P	-	30	14	24	41	12	11	916										
PARMING "B"	3	E	2	2	2	8-27-65	P	-	30	10	21	41	9	71	7,888										
HICARILLA "B"	4	F	3	3	3	8-5-65	P	-	37	6	24	42	14	93	6,642										
HICARILLA "B"	5	F	4	4	4	8-11-65	P	-	40	7	24	42	6	74	12,333										
HICARILLA "B"	6	F	5	5	5	8-1-65	P	-	45	13	24	42	8	136	17,000										
HICARILLA "B"	10	F	6	6	6	8-17-65	P	-	48	7	24	42	7	103	14,714										
HICARILLA "B"	11	B	7	7	7	8-7-65	P	-	48	8	24	42	9	103	11,666										
HICARILLA "B"	12	B	8	8	8	8-9-65	P	-	48	7	24	42	4	67	16,750										
HICARILLA "B"	13	B	9	9	9	8-1-65	P	-	46	7	24	42	9	65	7,222										
HICARILLA "B"	14	D	10	10	10	8-1-65	P	-	42	2	24	42	1	90	90,000										
HICARILLA "B"	16	B	11	11	11	8-25-65	P	-	48	9	24	42	7	75	10,714										
HICARILLA "B"	18	F	12	12	12	8-22-65	P	-	50	24	24	42	20	134	6,700										
HICARILLA "C"	20	D	13	13	13	8-30-65	P	-	37	21	24	42	13	33	2,538										
HICARILLA "C"	16	D	14	14	14	7-17-65	P	-	35	9	24	42	4	64	16,000										
HICARILLA "C"	18	D	15	15	15	7-20-65	P	-	45	3	24	42	4	55	13,750										
HICARILLA "C"	21	J	16	16	16	8-18-65	P	-	40	11	24	42	16	96	6,000										
HICARILLA "C"	22	H	17	17	17	8-13-65	P	-	40	7	24	42	10	69	6,900										
HICARILLA "C"	23	H	18	18	18	8-19-65	P	-	36	5.1	24	42	15	32	2,666										
HICARILLA "C"	24	F	19	19	19	7-26-65	P	-	36	10	24	42	10	83	5,300										
HICARILLA "C"	25	L	20	20	20	7-22-65	P	-	36	10	24	42	10	83	5,300										

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

(Orig. signed by Frank Leonard)

Dr. Production Engineer

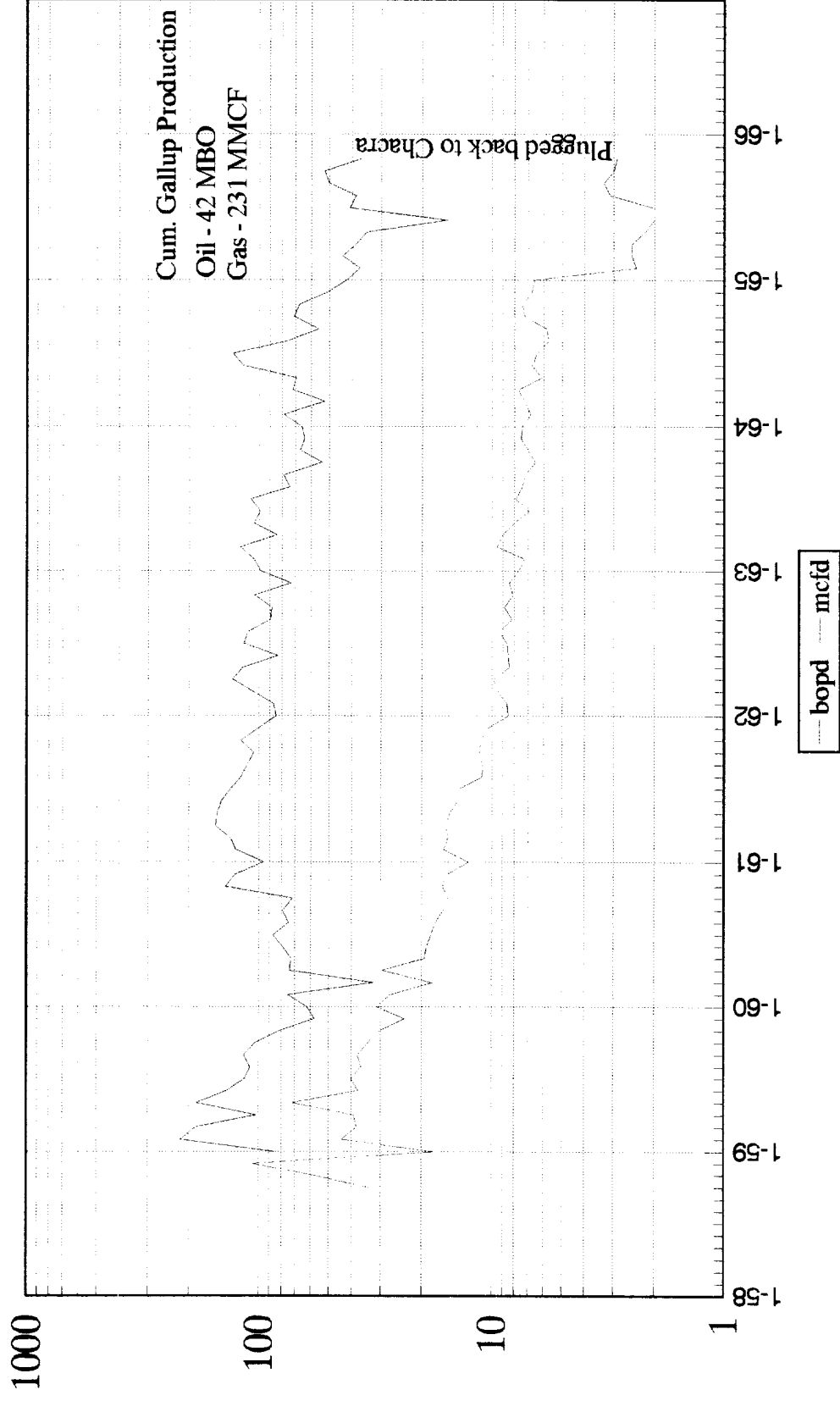
September 8, 1965



Attachment V

# Jicarilla C #18 Otero Gallup Production

From NMOCD Annual Reports

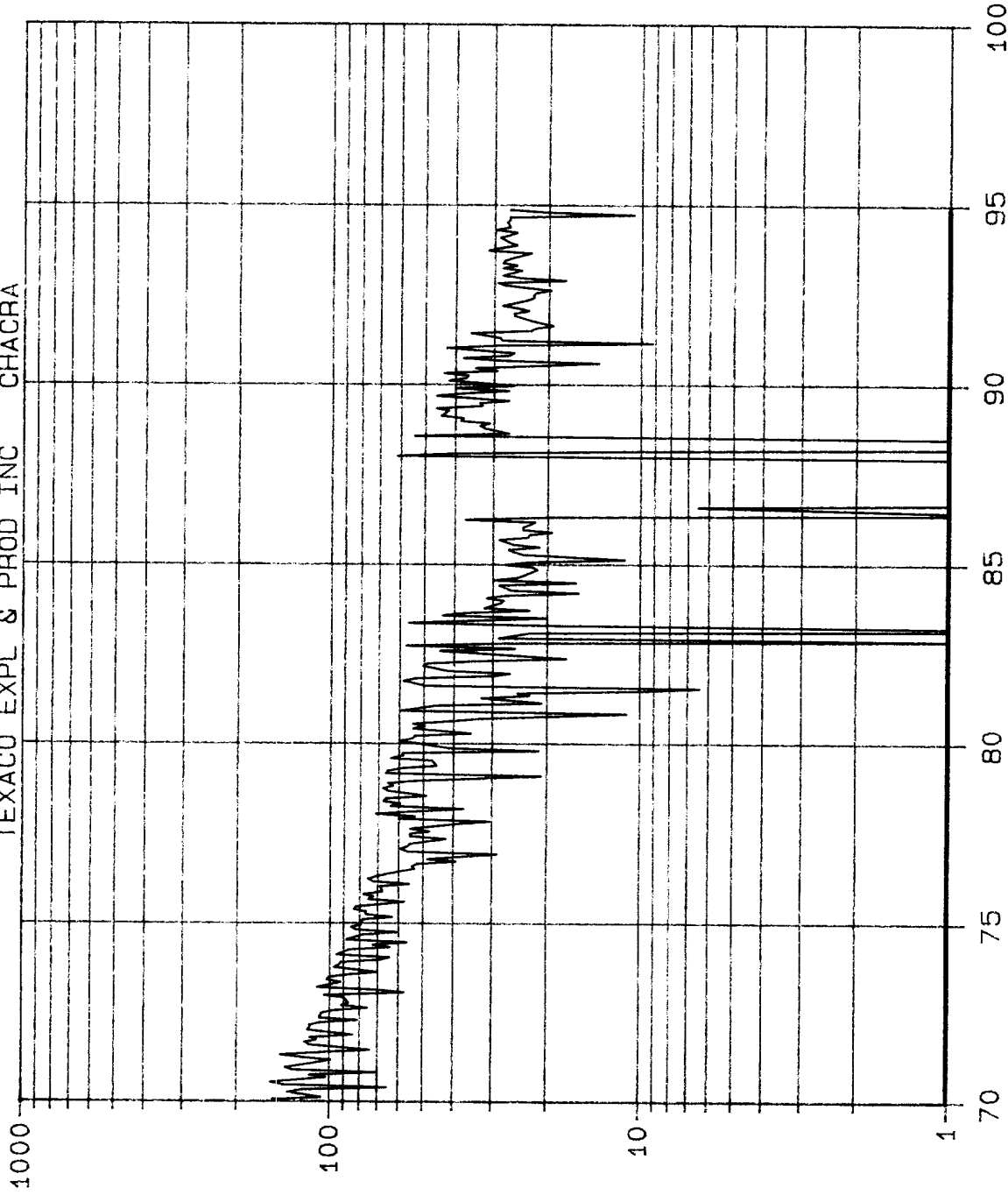




# Attachment II

JICARILLA C 000018 OTERO ( CHACRA ) CK  
TEXACO EXPL & PROD INC CHACRA

LEASE DATA  
LSE 25N05W28H01  
FLD 8054998  
OPER 158528  
ZONE  
25N-5W-28  
COUNTY 039  
STATE 30  
  
STATUS 11-94  
CO 0 MBO  
CG 577 MMCF  
CW 0 MBW  
BOPD 0  
BWPD 0  
MCFPD 27  
WELLS 1  
CI 0 MBWI  
BWIPD 0



YEARS

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*Attachment VII-a*

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 9Location  
of Well: Unit K Sec. 28 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. MEDIL (Tbg. or Csc)
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	Stabilized (Yes or N
Lower Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or N

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower) LOWER	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
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            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	Stabilized (Yes or No)



Attachment VII-6

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 10Location of Well: Unit M Sec. 22 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. MED. (Tbq. or Cs)
Upper Completion	BLANCO PICTURED CLIFFS SO.	GAS	SHUT IN	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	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No)

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
8-9-94	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		
9-13-94	96 HRS.	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 SHUT IN : 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	Stabilized (Yes or No)



Attachment VII-C

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC.Lease JICARILLA CWell  
No. 11

Location

of Well: Unit L Sec. 27 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. METHOD (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	St press. psig	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	St press. psig	Stabilized (Yes or No)

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
		PRESSURE		LOWER	
TIME (hour, date)	LAPSED TIME SINCE*	Upper Completion	Lower completion	PROD. ZONE TEMP.	REMARKS
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 HRS.	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	St press. psig	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	St press. psig	Stabilized (Yes or No)

RECEIVED  
OCT 13 1994



Attachment VII-d

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 13

Location of Well: Unit B Sec. 33 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. METHOD (Tbg. or Csc)
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 Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
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 SHUT IN : 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	Stabilized (Yes or No)

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Attachment VII-e

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 14ELocation of Well: Unit D Sec. 27 Twp. 25N Rge. 5W County RIO ARriba

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PRCD. (Flow or Art. Lift)	PROD. MED. (Tba. or Ca)
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 or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
9-9-94	24 HRS.	389	322		BOTH ZONES SHUT IN
9-10-94	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 SHUT IN: 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)



*Attachment VII-f*

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 15

Location of Well: Unit g Sec. 34 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. MED. (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 Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
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		. . . .
9-16-94	168 HRS.	111	46		UPPER SHUT IN; LOWER FLOWING
9-17-94	192 HRS.	112	42		UPPER SHUT IN; 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	Stabilized (Yes or No)



Attachment VII-9

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 17

Location of Well: Unit d Sec. 28 Twp. 25N Rge. 5W County RIO ARRIEA

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MED. (Tbg. or Cs)
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 Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No)

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper completion	Lower completion		
9-9-94	24 HRS.	135	294		BOTH ZONES SHUT IN
9-10-94	48 HRS.	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 SHUT IN; 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	Stabilized (Yes or No)



Attachment VII - b

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC.Lease JICARILLA CWell  
No. 27E

Location

of Well: Unit B Sec. 33 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 Completion	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stabilized (Yes or No)

## FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
9-9-94	24 HRS.	279	702		BOTH ZONES SHUT IN
9-10-94	48 HRS.	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 SHUT IN : 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	Stabilized (Yes or No)





# JICARILLA C No. 18

## Current Completion

API #30-039-05837  
COMPL DATE 10-21-58

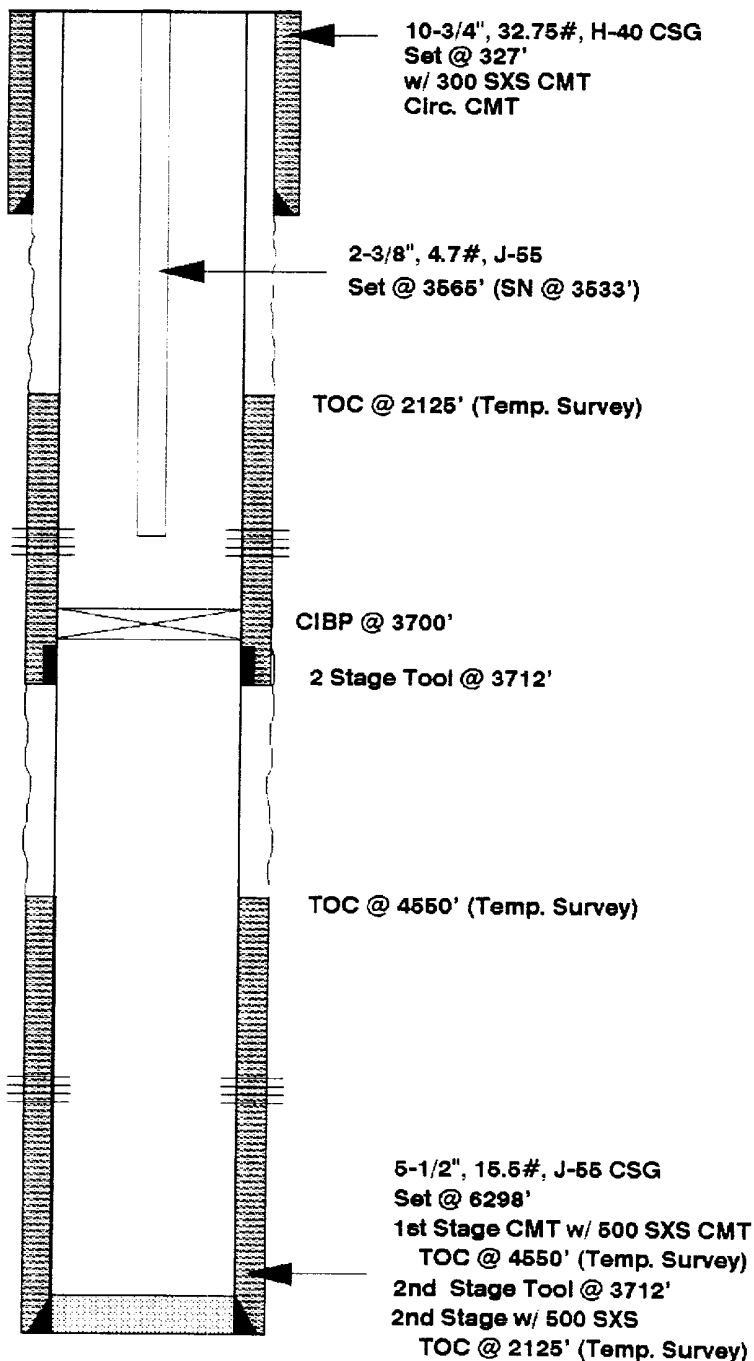
LOCATION:  
1850' FNL & 790' FEL  
SE/NE, Sec. 28, T25N, R5W  
Rio Arriba County, NM  
ELEVATION: 6651' DF

CHACRA PERFS (7/66):  
3568'-76', 3580'-88'  
64 Shots, 4 SPF  
Frac w/ 43,780 Gals. Water  
20,000# 20-40 Sand  
20,000# 10-20 Sand

FORMATION TOPS:  
Pictured Cliffs 2693' (+3958)  
Lewis 2788' (+3863)  
Chacra 3551' (+3100)  
Pt. Lookout 4896' (+1755)  
Mancoes 5100' (+1551)  
U. Gallup 6092' (+ 559)  
M. Gallup 6268' (+ 383)  
L. Gallup 6300' (+ 351)  
PBSD 6248' (+ 403)  
TD 6300' (+ 351)

GALLUP PERFORATIONS:  
6092'-6110'  
6120'-6155'  
6160'-6168'  
4 SPF

6135'-68'  
Frac w/ 40,160 Gals. Lse. Crude  
15,000# 20-40 Sand  
6092'-6168'  
Frac w/ 21,924 Gals. Lse. Crude  
19,000# w/ 125 ball sealers







# JICARILLA C No. 18

## PROPOSED COMPLETION

API #30-039-05837  
COMPL DATE 10-21-58

LOCATION:  
1850' FNL & 790' FEL  
SE/NE, Sec. 28, T25N, R5W  
Rio Arriba County, NM

ELEVATION: 6651' DF

### CHACRA PERFS (7/66):

3568'-76', 3580'-88'  
64 Shots, 4 SPF

Frac w/ 43,780 Gals. Water  
20,000# 20-40 Sand  
20,000# 10-20 Sand

### FORMATION TOPS:

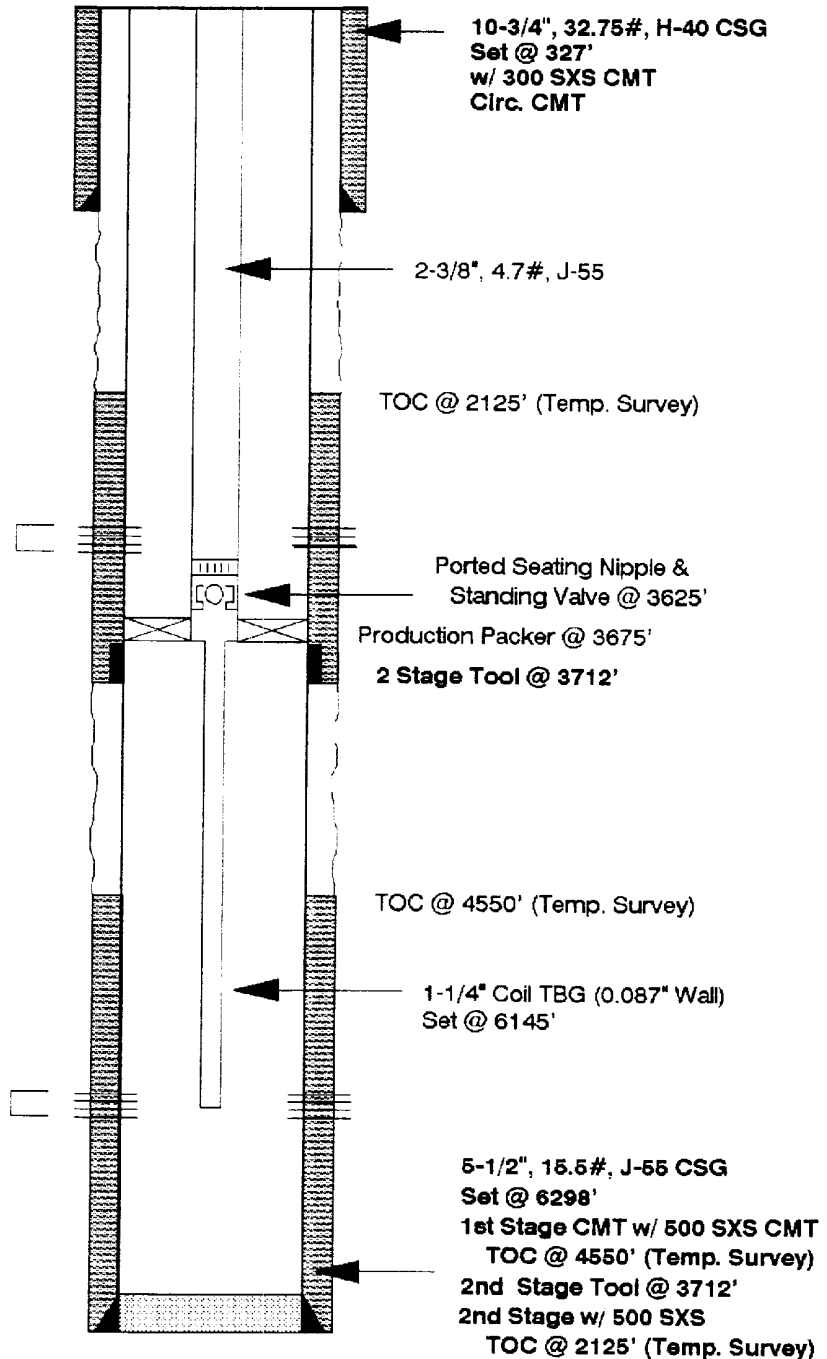
Pictured Cliffs 2693' (+3958)  
Lewis 2788' (+3863)  
Chacra 3551' (+3100)  
Pt. Lookout 4896' (+1755)  
Mancos 5100' (+1551)  
U. Gallup 6092' (+ 559)  
M. Gallup 6268' (+ 383)  
L. Gallup 6300' (+ 351)  
PBSD 6248' (+ 403)  
TD 6300' (+ 351)

### GALLUP PERFORATIONS:

6092'-6110'  
6120'-6155'  
6160'-6168'  
4 SPF

6135'-68'  
Frac w/ 40,160 Gals. Lse. Crude  
15,000# 20-40 Sand

6092'-6168'  
Frac w/ 21,924 Gals. Lse. Crude  
19,000# w/ 125 ball sealers







**LTR**



**Job separation sheet**

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-104  
Revised February 10, 1999  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address FOUR STAR OIL AND GAS COMPANY 3300 N. Butler Ave., Suite 100 Farmington NM 87401		<sup>2</sup> OGRID Number 131994
<sup>3</sup> Reason for Filing Code CH		
<sup>4</sup> API Number 3003905837	<sup>5</sup> Pool Name OTERO CHACRA (GAS)	<sup>6</sup> Pool Code 82329
<sup>7</sup> Property Code 011170	<sup>8</sup> Property Name JICARILLA C	<sup>9</sup> Well No. 18

<sup>10</sup> Surface Location

Ul or lot no. H	Section 28	Township T25N	Range R05W	Lot Idn	Feet From The 1850	North/South Line NORTH	Feet From The 790	East/West Line EAST	County RIO ARRIBA
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<sup>11</sup> Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J									
<sup>12</sup> Lse Ccde	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				
J									

Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
014538	MERIDIAN OIL, INC. 3535 E. 30th, FARMINGTON NM	2511210	O	H 28 25N/05W
007056	EL PASO NATURAL GAS COMPANY P. O. BOX 990 FARMINGTON NM	2511230	G	H 28 25N/05W
	GIANT REFINING COMPANY P.O. BOX 12999 SCOTTSDALE, AZ 85267			

Produced Water

<sup>23</sup> POD 2511250	<sup>24</sup> POD ULSTR Location and Description H 28 25N/05W
------------------------------	--

Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> Total Depth 6390	<sup>28</sup> PBTD	<sup>29</sup> Perforations
<sup>30</sup> HOLE SIZE	<sup>31</sup> CASING & TUBING SIZE	<sup>32</sup> DEPTH SET	<sup>33</sup> SACKS CEMENT	
		0		
		0		
		0		

Well Test Data

<sup>34</sup> Date New Oil	<sup>35</sup> Gas Delivery Date	<sup>36</sup> Date of Test	<sup>37</sup> Length of Test	<sup>38</sup> Tubing Pressure	<sup>39</sup> Casing Pressure
<sup>40</sup> Choke Size	<sup>41</sup> Oil - Bbls.	<sup>42</sup> Water - Bbls.	<sup>43</sup> Gas - MCF	<sup>44</sup> AOF	<sup>45</sup> Test Method

<sup>46</sup> I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature <i>Ted A. Tipton</i> Printed Name Ted A. Tipton Title Operating Unit Manager Date 6/9/95 Telephone 325-4397		<b>OIL CONSERVATION DIVISION</b> Approved By: <i>[Signature]</i> SUPERVISOR DISTRICT #3 Title: JUL 31 1995 Approval Date:	
--	--	--	--

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator 022364 - TEXACO E. & P., INC.				Ted A. Tipton Operating Unit Manager 6/9/95	
Previous Operator Signature		Printed Name		Title Date	

