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Texaco Exploration and Production Inc
3300 N Butler
Farmington NM 87401

January 23, 1995

RECEIVED

MAR 17 1995

Oil Conservation Division

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

Attention: David Catanach

RE: **Application for exception to NMOCD Rule 303-A: Downhole Commingle of Jicarilla C No. 24; 1980' FNL & 1980' FWL, Unit F, Sec. 27-T25N-R5W, 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 March of 1959. In May of 1966 the well was plugged back and recompleted in the Otero Chacra. The Gallup was producing 3 BOPD and 60-70 MCFD and had cumulative production of 23 MBO and 139 MMCF immediately prior to the plug back. The Chacra zone is currently producing 30 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

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:	24
Well Location:	1980' FNL & 1980' FWL, Unit F, Sec. 27
	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. 24 prior to plug back in May of 1966. Cumulative Gallup production is 23 BO and 139 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	Range, psig	# 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.

Application for Exception to Rule 303-Segregation of productiom 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.

Current Otero Chacra Prod.		Anticipated Otero Gallup Production	
Oil, BOPD	0	Oil, BOPD	3
Gas, MCFD	30	Gas, MCFD	60
Water, BWPD	0	Water, BWPD	0

The combined production from the Chacra and Gallup zones will be approximately 90 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:

	Gas	Oil
Chacra	30/(30+60)=33%	0/(0+3)=0%
Gallup	60/(30+60)=67%	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.

Attachment I

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128
Revised 5/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator	Lease	Well No.
SKELLY OIL COMPANY	JICARILLA	C-24

Unit Letter	Section	Township	Range	County
F	27	25 NORTH	5 WEST	RIO ARRIBA

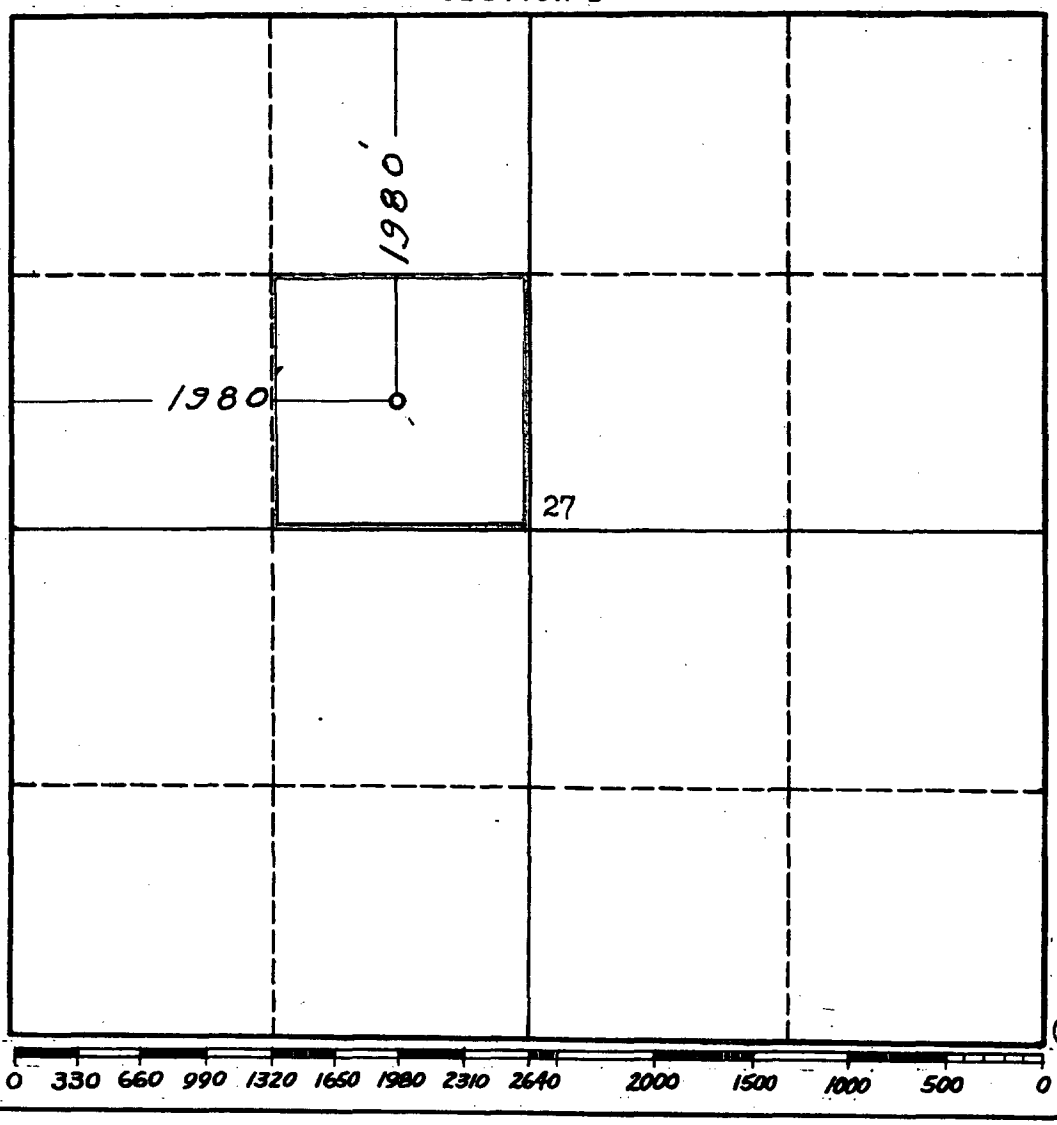
Actual Footage Location of Well: 1980 feet from the NORTH line and 1980 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
	GALLUP	OTERO	40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO ____. *("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)*
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:

Owner	Land Description

SECTION B



CERTIFICATION

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

Name

Position: District Superintendent

Company: SKELLY OIL COMPANY

Date: February 25, 1959

REF. GLO PLAT DATED 4 NOV. 1882

I hereby 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: 23 February 1959

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

Certificate No. 1463

Attachment II

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

Operator	Lease	Well No.
Skelly Oil Company	Jicarilla "C"	24

Unit Letter	Section	Township	Range	County
"F"	27	25-N	5-W	Rio Arriba

Actual Footage Location of Well:
1980 feet from the North line and 1980 feet from the West line

Ground Level Elev:	Producing Formation	Pool	Dedicated Acreage:
6671'	Chacra	Otero Chacra	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

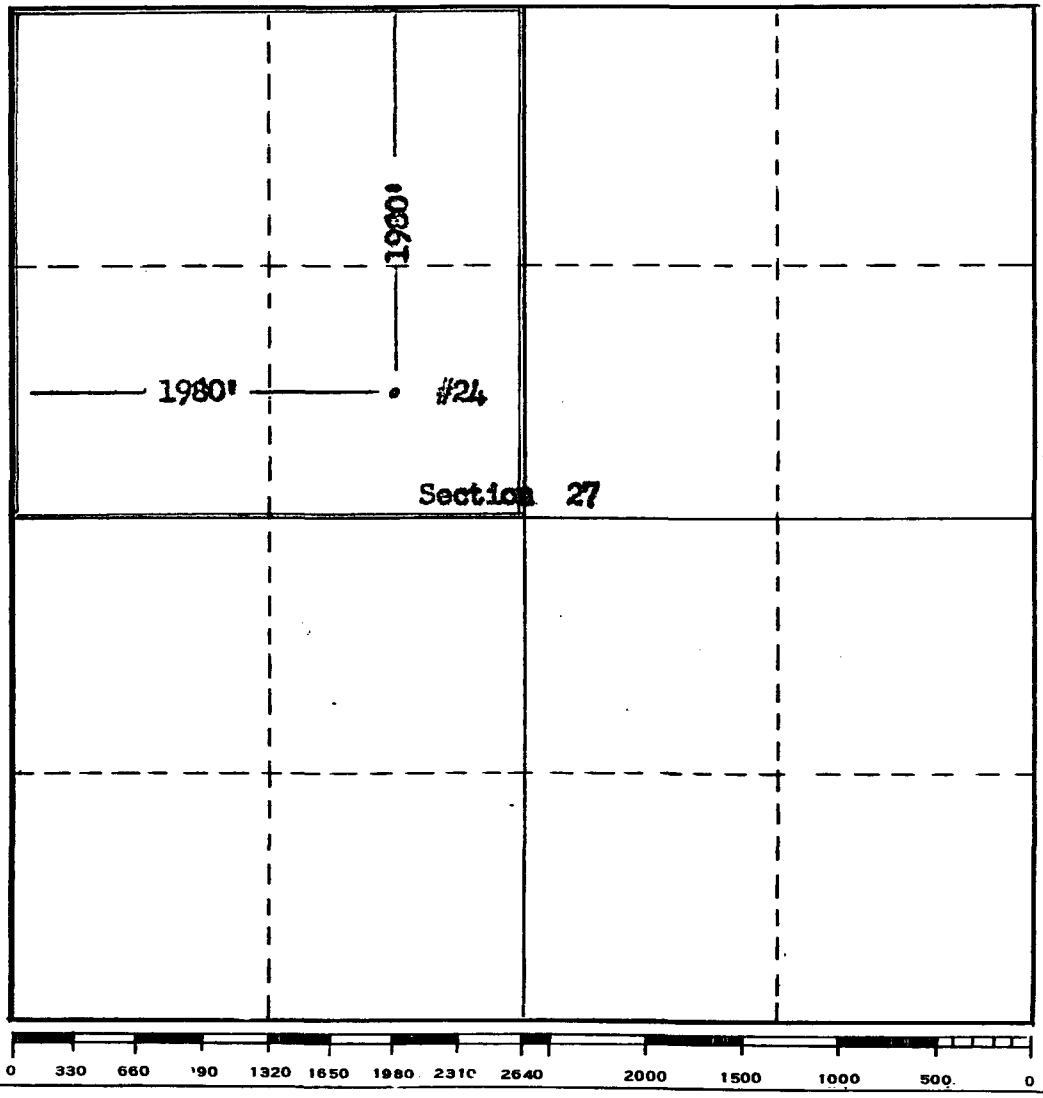
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Name (ORIGINAL SIGNED) H. E. Aab

Position
Dist. Superintendent

Company
Skelly Oil Company

Date
May 3, 1966

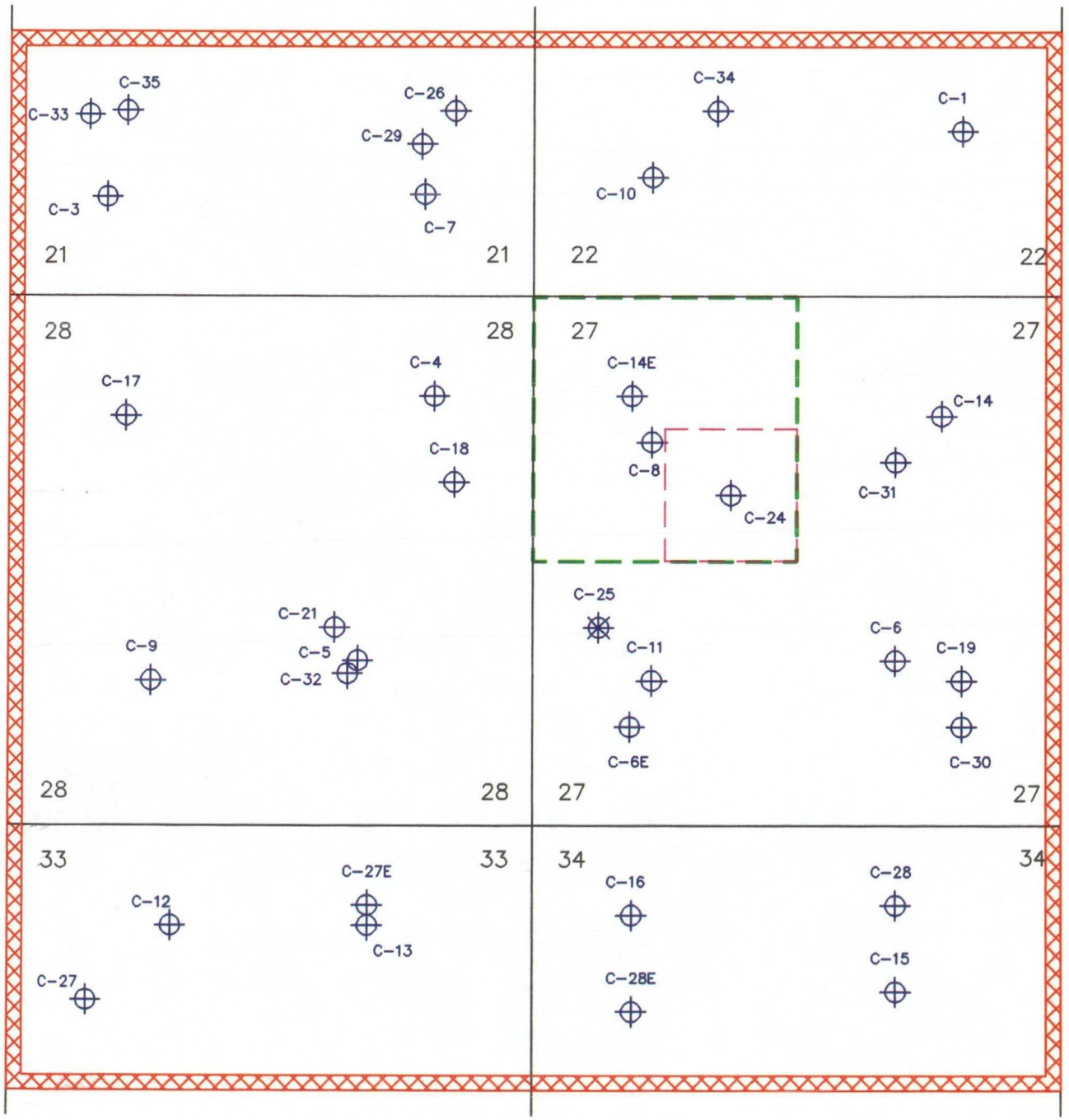
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
February 23, 1959

Registered Professional Engineer and/or Land Surveyor
Org.
Signed - James P. Leese

Certificate No.
1463

JICARILLA "C" LEASE



T25N, R5W

CONVENTIONAL WELL

OTERO GALLUP SPACING UNIT

OTERO CHACRA SPACING UNIT

TEXACO OPERATED LEASE BOUNDARY

1600' 800' 0 800' 1600'

1200' 400'

TEXACO

FARMINGTON AREA
MIDLAND DIVISION
MIDLAND, TEXAS

AREA: JICARILLA APACHE INDIAN RESERVATION
RIO ARRIBA CO., NEW MEXICO

DESCRIPTION: JICARILLA "C" LEASE
T 25 N – R 05 W
OFFSET SPACING UNITS

DATE: 1-95	BY: RSD	REVISED:
INTERVAL:	SCALE: 1"=	

ATTACHMENT III

NEW MEXICO OIL CONSERVATION COMMISSION

GAS – OIL RATIO TESTS

Attachment IV

C-116

Revised 1-1-65

Operator	Pool	County
SHELLY OIL COMPANY	OTERO-GALLUP	RIO ARRIBA

Address	TYPE OF TEST – (X)	Scheduled [X]	Completion [ ]	Special [ ]
DRAWER 570 – FARMINGTON, NEW MEXICO				

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS – OIL RATIO CU.FT./BBL.
FARMING "E"	2	B	2	26N	6W	8-26-65	P	-	30	14	24	0	41	12	11	916
FARMING "E"	3	K	2	26N	6W	8-27-65	P	-	30	10	24	0	41	9	71	7,888
JICARILLA "B"	6	F	32	25N	5W	8- 5-65	P	-	37	6	24	0	42	14	93	6,642
JICARILLA "B"	8	H	31	25N	5W	8-11-65	P	-	40	7	24	0	42	6	74	12,333
JICARILLA "B"	10	P	32	25N	5W	8- 1-65	P	-	45	13	24	0	42	8	136	17,000
JICARILLA "B"	11	D	5	26N	5W	8-17-65	P	-	48	7	24	0	42	7	103	14,714
JICARILLA "B"	12	H	32	25N	5W	8- 7-65	P	-	38	8	24	0	42	9	105	11,666
JICARILLA "B"	13	B	32	25N	5W	8- 9-65	P	-	38	7	24	0	42	4	67	16,750
JICARILLA "B"	14	B	32	25N	5W	8- 3-65	P	-	36	7	24	0	42	9	65	7,222
JICARILLA "B"	16	B	6	26N	5W	8-25-65	P	-	42	2	24	0	42	1	90	90,000
JICARILLA "B"	18	F	31	25N	5W	8-22-65	P	-	38	9	24	0	42	7	75	10,714
JICARILLA "B"	20	D	31	25N	5W	8-30-65	P	-	50	24	24	0	42	20	134	6,700
JICARILLA "C"	16	D	34	25N	5W	7-17-65	P	-	37	21	24	0	42	13	33	2,538
JICARILLA "C"	18	E	28	25N	5W	7-20-65	P	-	35	9	24	0	42	4	64	16,000
JICARILLA "C"	21	J	28	25N	5W	8-18-65	P	-	45	3	24	0	42	4	55	13,750
JICARILLA "C"	22	H	33	25N	5W	8-13-65	P	-	40	11	24	0	42	16	96	6,000
JICARILLA "C"	23	E	27	25N	5W	8-19-65	P	-	40	7	24	0	42	10	69	6,900
JICARILLA "C"	24	F	27	25N	5W	7-26-65	P	-	36	N.I.	24	0	42	12	32	2,666
JICARILLA "C"	25	L	27	25N	5W	7-22-65	P	-	36	10	24	0	42	10	83	8,300

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 Benard

(Signature)

Sr. Production Engineer

(Title)

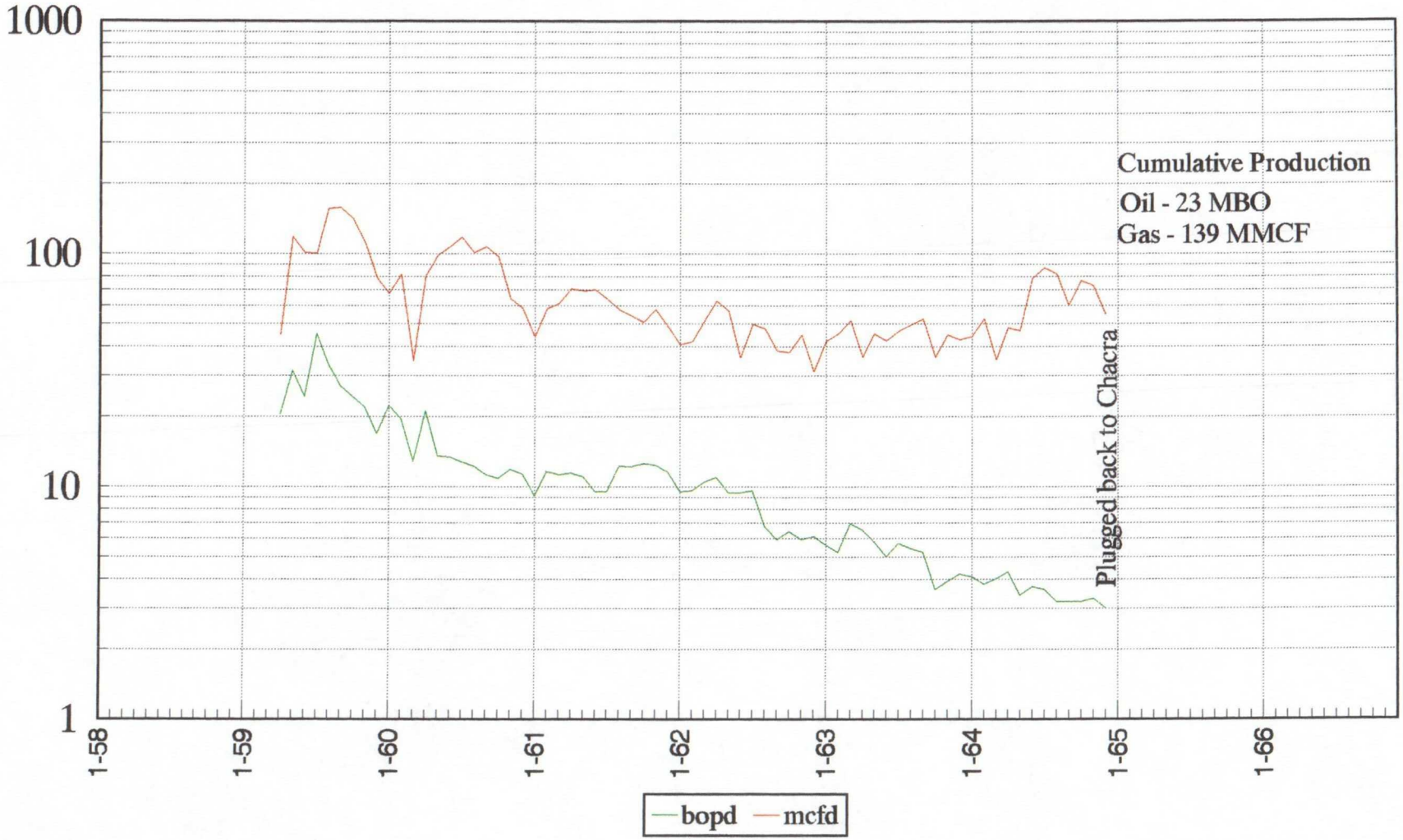
September 8, 1965

(Date)

Attachment V

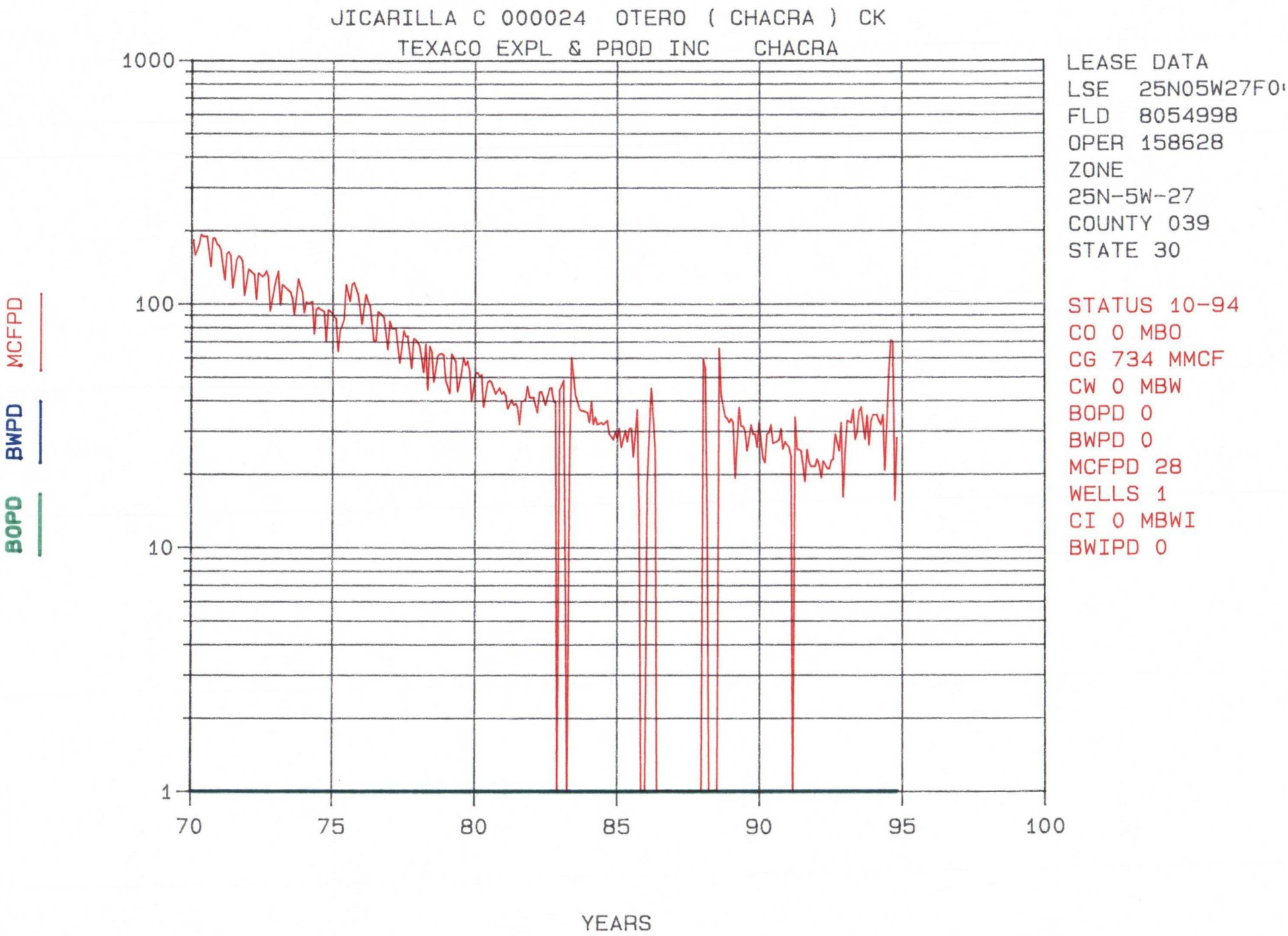
Jicarilla C #24 Otero Gallup Production

From NMOCD Annual Reports



MRR 11/22/94

Attachment VI



STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Attachment VII-a

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 9

Location 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. 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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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)

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Attachment VII-6

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 10

Location 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. 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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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		
9-13-94	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 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)

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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Revised 10/10/

Attachment VII-e

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well 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. 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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE 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	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)

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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Revised 10/1 0/78

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. 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	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) LOWER

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

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Attachment VII-e

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well No. 14E

Location 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 PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	OTERO GALLUP	OIL	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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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 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

OIL CONSERVATION DIVISION

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. 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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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 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)

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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Revised 10/10/7

Attachment VII-g

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 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 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 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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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 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

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Attachment VII-k

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease JICARILLA C Well 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	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) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower completion	PROD. ZONE TEMP.	REMARKS
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 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)

Attachment VIII-a

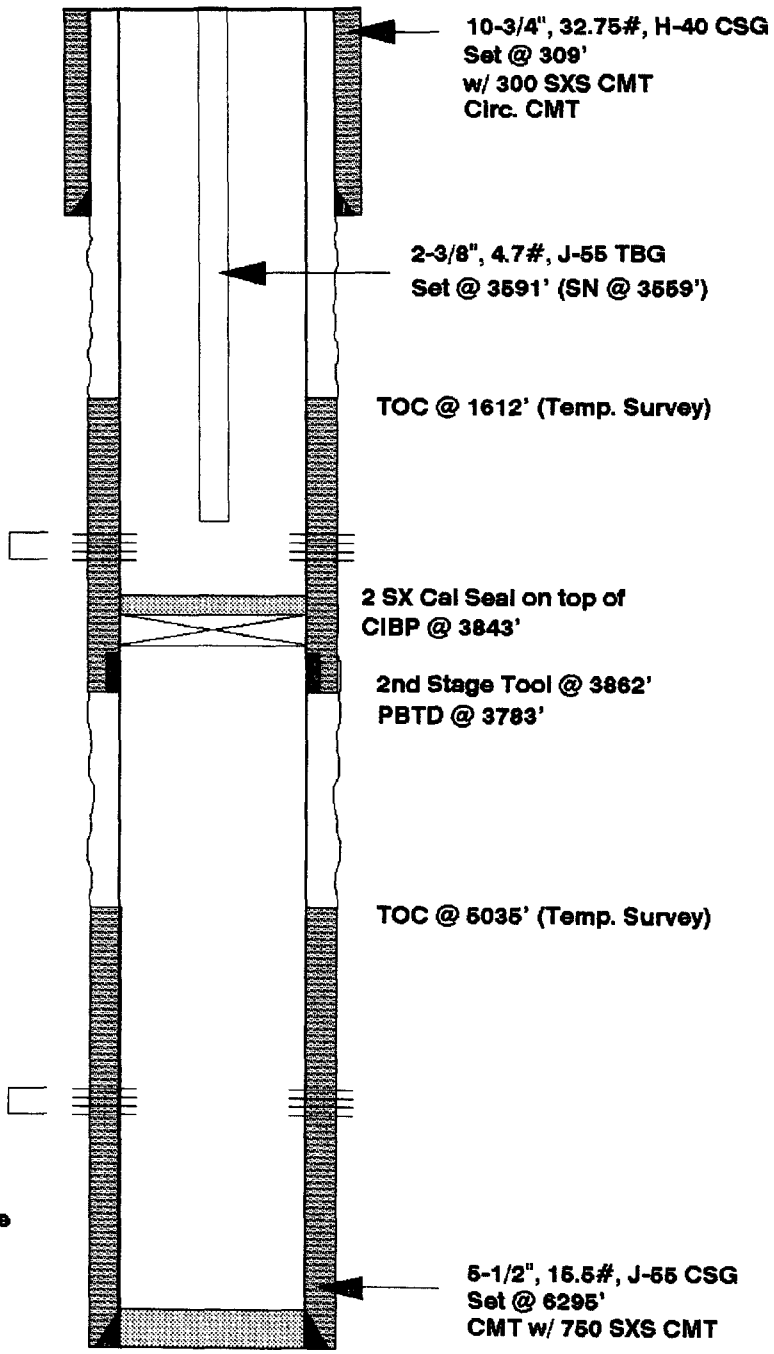
11/12/94

JICARILLA C No. 24

Current Completion

API #30-039-05826
COMPL. DATE 3-13-59

LOCATION:
1980' FNL & 1980' FWL
SW/NE, Sec. 27, T25N, R5W
Rio Arriba County, NM



CHACRA PERFS (5/66):
3622'-3628'
3630'-3644'
64 Shots, 4 SPF

Frac w/ 52,488 Gals. Water
30,000# 40-60 Sand
10,000# 20-40 Sand
60 balls sealers

FORMATION TOPS:
Pictured Cliffs 2733' (+3946)
Lewis 2855' (+3824)
Chacra 3602' (+3072)
Pt. Lookout 4914' (+1765)
Mancos 5150' (+1529)
Gallup 6083' (+ 526)
M. Gallup 6140' (+ 539)
PBTD 6255' (+ 424
TD 6300' (+ 379)

GALLUP PERFORATIONS:
6111'-6119'
6142'-6160'
6173'-98'
6211'-6219'
4 SPF

Frac w/ 21,420 Gals. Lse. Crude
15,225# 20-40 Sand
70 balls sealers

Attachment VIII-b

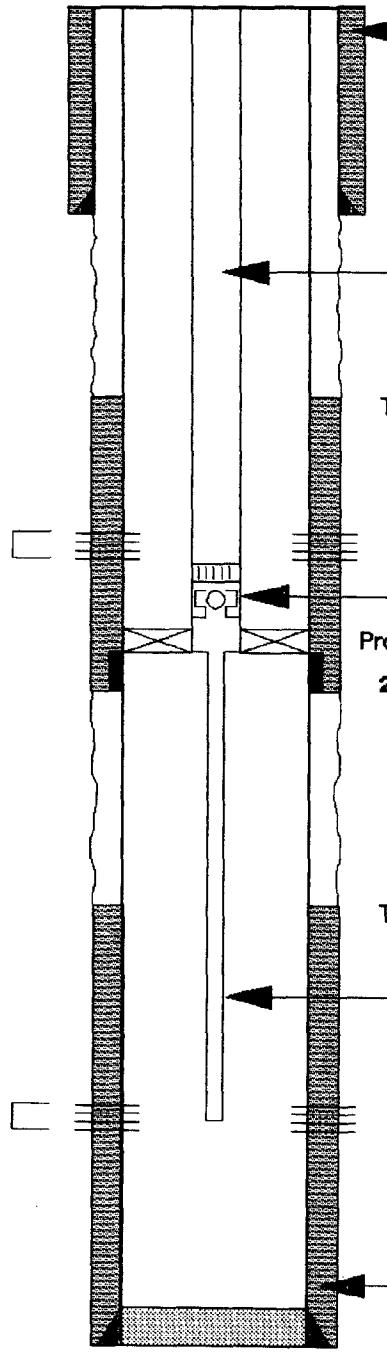
11/12/94

JICARILLA C No. 24

PROPOSED COMPLETION

API #30-039-05826
COMPL. DATE 3-13-59

LOCATION:
1980' FNL & 1980' FWL
SW/NE, Sec. 27, T25N, R5W
Rio Arriba County, NM



10-3/4", 32.75#, H-40 CSG
Set @ 309'
w/ 300 SXS CMT
Circ. CMT

2-3/8", 4.7#, J-55 TBG

TOC @ 1612' (Temp. Survey)

CHACRA PERFS (5/66):
3622'-3628'
3630'-3644'
64 Shots, 4 SPF

Frac w/ 52,488 Gals. Water
30,000# 40-60 Sand
10,000# 20-40 Sand
60 balls sealers

Ported Seating Nipple &
Standing Valve @ 3750'

Production Packer @ 3800'

2nd Stage Tool @ 3862'

FORMATION TOPS:
Pictured Cliffs 2733' (+3946)
Lewis 2855' (+3824)
Chacra 3602' (+3072)
Pt. Lookout 4914' (+1765)
Mancos 5150' (+1529)
Gallup 6083' (+ 526)
M. Gallup 6140' (+ 539)
PBTD 6255' (+ 424)
TD 6300' (+ 379)

TOC @ 5035' (Temp. Survey)

1-1/4" Coil TBG (0.087" Wall)
Set @ 6165'

GALLUP PERFORATIONS:
6111'-6119'
6142'-6160'
6173'-98'
6211'-6219'
4 SPF

Frac w/ 21,420 Gals. Lse. Crude
15,225# 20-40 Sand
70 balls sealers

5-1/2", 15.5#, J-55 CSG
Set @ 6295'
CMT w/ 750 SXS CMT