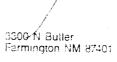


Texaco Exploration and Production Inc.



April 11, 1995

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, New Mexico 87504

Attention: David Catanach

RE:

Application for exception to NMOCD Rule 303-A: Downhole Commingle of Lydia Rentz No. 7, 800' FNL & 1820' FWL, Unit C, Sec. 20-T25N-R3W, NMPM, Rio Arriba County, New Mexico

Dear Mr. Catanach:

Texaco Exploration and Production Inc. respectfully requests administrative approval to downhole commingle the Blanco Mesaverde gas pool and the West Lindrith Gallup-Dakota oil pool within the referenced well. Approval of this application will require an exception to Rule 303-A. Please accept the attached information in your consideration of this matter. All offset operators were notified of this request by certified mail (copy of return receipt cards attached).

The subject well is currently dual completed in the referenced pools (see attached "current completion" wellbore diagram - attachment VII-A). The Gallup-Dakota is produces 6 BOPD, < 1 BWPD and 59 MCFD with plunger lift under a packer through a 2-3/8" tubing string. The Mesaverde interval has not produced since 1991. A separate string of 2-3/8" tubing is set in the Mesaverde. We plan to restore production in the Mesaverde interval by perforating additional pay and refracturing. We then propose to downhole commingle the two pools (see attached "proposed completion" wellbore diagram - attachment VII-B). If we continue to plunger lift the well, removal of the packer will provide greater annular storage capacity with greater energy for removal of liquids. If rod pumping becomes necessary, removal of the packer means the lower zone gas will not have to travel through the pump causing poor efficiency and gas locking. Production from both pools will be enhanced with either lift method.

Downhole commingling will not result in reservoir damage, waste of reserves or violation of correlative rights. If you have any questions concerning this matter please contact Mr. Mark R. Reinhold at (505) 325-4397, ext. 19. Your attention to this matter is greatly appreciated.

Sincerely,

Ted A. Tipton

roked Hindi 1707

MRR/s Attachments cc: NMOCD-Aztec

file

Operating Unit Manager

OHL COM. DIV.

LIST OF ATTACHMENTS

Attachment	<u>Description</u>
I	C-102, Well location and acreage dedication plat - Blanco Mesaverde
II	C-102, Well location and acreage dedication plat - West Lindrith Gallup-Dakota
III	Offset Operators map
IV	C-115, Operator's Monthly Report (W. Lindrith Gallup-Dakota)
V-A	Decline Curve - Lydia Rentz #7 Gallup-Dakota
V-B	Decline Curve - Lydia Rentz #7 Mesaverde
VI	Northwest New Mexico Package Leakage Test - Lydia Rentz #7
VII-A	Wellbore Diagram - Current Completion
VII-B	Wellbore Diagram - Proposed Completion



Application for Exception to Rule 303-Segregation of Production From Pools

(1) Name and address of the operator:

Texaco Exploration and Production Inc.

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OIL COM. DIV.

3300 N. Butler, Suite 100 Farmington, NM 87401

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

Lease Name:

Lydia Rentz

Well Number:

7

Well Location:

800' FNL & 1820' FWL, Unit C, Sec. 20

T25N-R3W, NMPM

Rio Arriba County, New Mexico

Pools to Commingle:

Blanco Mesaverde Gas Pool and West Lindrith

Gallup Dakota Oil Pool

(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 C-116 showing the amount of oil, gas and water produced from each zone.

The C-115 for Lydia Rentz No. 7 Gallup/Dakota production is attached (attachment IV). The Mesaverde completion in the Lydia Rentz No. 7 has not produced since 1991. Additional pay in the Mesaverde will be perforated and the interval will be refractured prior to downhole commingling. Following this workover, we expect the Mesaverde to produce 235 MCFD, 1 BOPD, and 1 BWPD.

(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 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.)

Decline curves for the Gallup/Dakota and Mesaverde production from Lydia Rentz No.7 is attached (Attachments V-A, V-B, respectively).

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

The Mesaverde and Gallup/Dakota bottom hole pressure is estimated based on New Mexico Packer Leakage Test dated 9/94 Lydia Rentz No.7:

Mesaverde:

980 psig

(Attachment VI)

Gallup/Dakota:

550 psig

(Attachment VI)

Actual Mesaverde P_{BH} will be obtained using shut-in testing upon completion.

<u>Application for Exception to Rule 303-Segregation of Production From Pools Requirements Continued.</u>

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

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale. The major components of the produced waters are sodium, chlorides and bicarbonates. Several offsets are commingled in the proposed zones and no production problems have occurred.

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

Current Gallup/Dal	kota Prod.	Anticipated Mesave	rde Prod.
Oil, BOPD	6	Oil, BOPD	1
Gas, MCFD	59	Gas, MCFD	235
Water, BWPD	1	Water, BWPD	1

The combined production from the Gallup/Dakota and Mesaverde formations will be approximately 294 MCFD, 7 BOPD, and 2 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 will be calculated as follows:

	<u>Gas</u>	<u>Oil</u>	Water
Mesaverde	235/294=80%	1/7=14%	1/2=50%
Gallup/Dakota	59/294=20%	6/7=86%	1/2=50%

The actual production data obtained prior to and following the commingling process will be presented to the Aztec NMOCD District office to arrive 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.

All offset operators have been notified. Please find attached, signed return receipt cards from each operator (Attachment VIII). A BLM Sundry (Form 3160-5) has been submitted for approval.

ANTA FE. NEW MEXICO 87501

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perator			Lease			Well No.
GETTY OII			LYDIA RENTZ			7
att Letter	Section Town		Pange	County		
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Unit Letter	Section	Township	Range	County	
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Actual Footage Loc	ation of Well:				
800	fact from the NO	orth line and	1820 to	ot Imm the West	line
Ground Level Elev.	Finducing For	mation	Pool		Dedicated Acreage: ,
7222'	Gallup	Dakota	Lindrith Ga	llup/Dakota West	160 Acres
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1820'	800'	Sec. 20	OIL CON. DI	toined here best of my Mall S. K. Itame Area Si Position Texaco Company	certify that the information con- tin is true and complete to the knowledge and belief. Long for Alan A Kleier aperintendent Inc. 31, 1988
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NHachment III

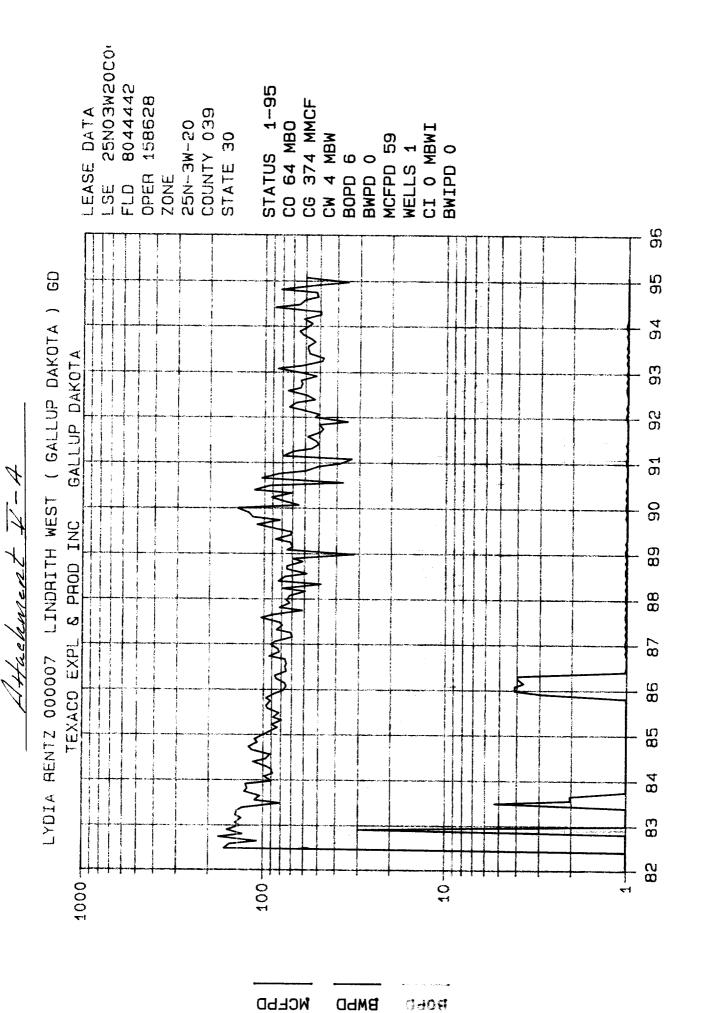
OFFSET OPERATORS LYDIA RENTZ # 7 SEC. 20 T25N / R03W

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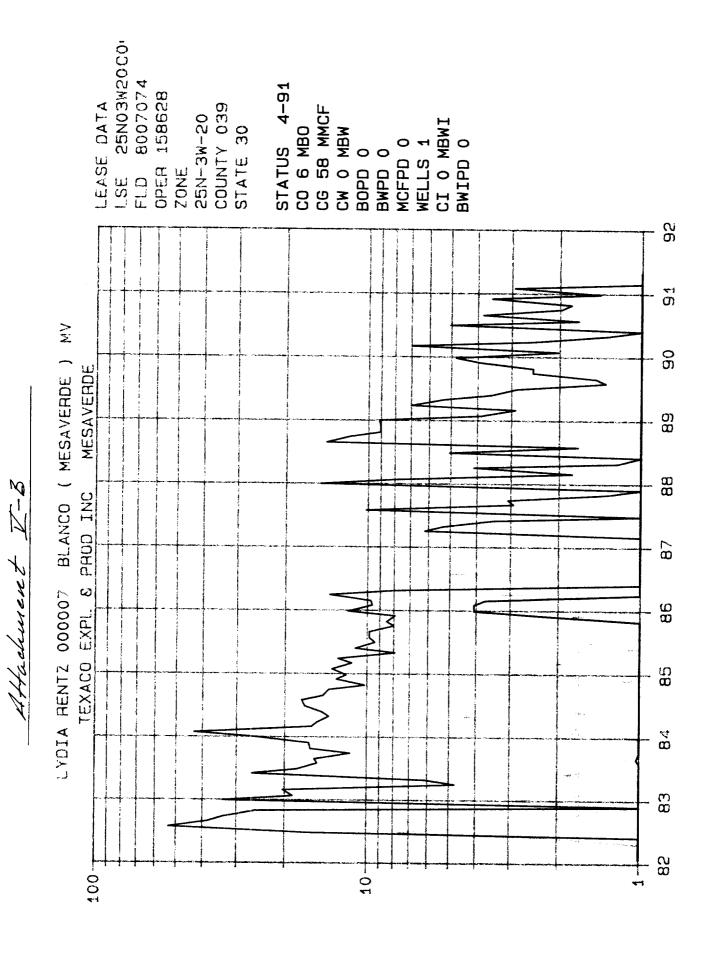
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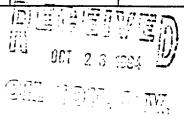
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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Location							
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		NAME OF RESERV	OIR OR POC	X.	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD (Flow or Art. Lift)	,
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Lowe Complet	· I	LINDRETH GALLUF	DAKOTA W	EST	GAS	FLOW	TBG.
			SHUT-IN	PRESSURE D	ATA		
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Lower Completi		ite shut—in		Length of time s	hut-in	Si press. psig	Stabilized (Yes or No)
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-11-94	72 HRS	980	528	NUV	1 1994		
-12-94	96 HR\$.	980	550			• •	•
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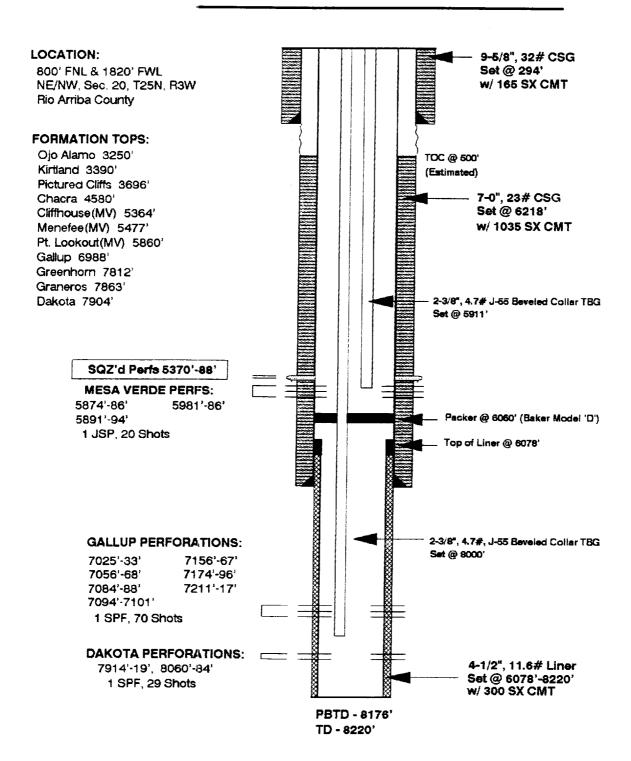
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LYDIA RENTZ No. 7

API# 30 039 22733

CURRENT COMPLETION



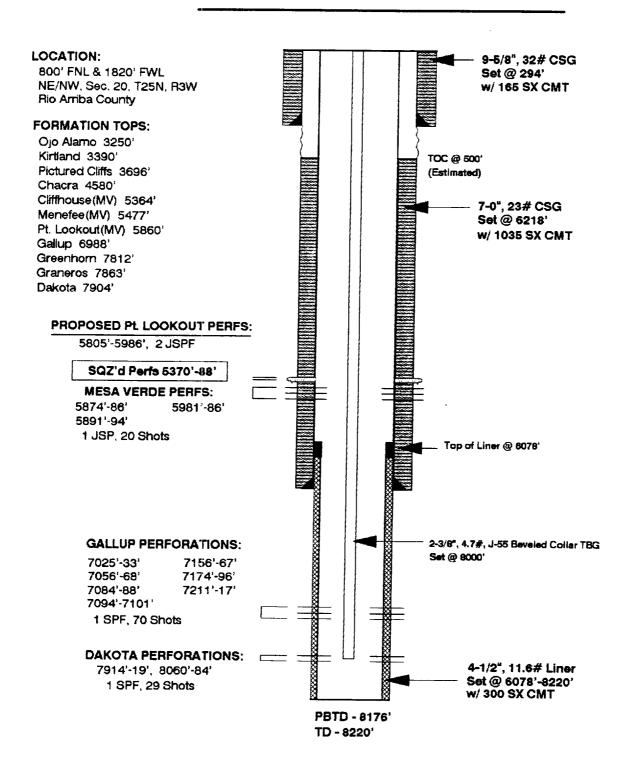




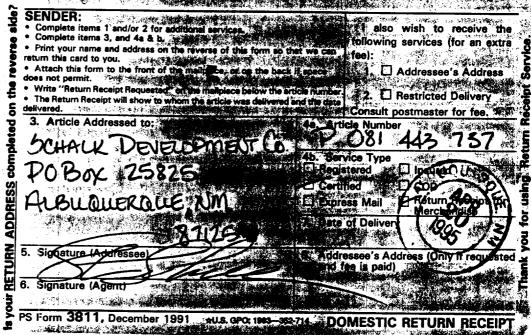
LYDIA RENTZ No. 7

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PROPOSED COMPLETION



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Texaco Exploration and Production Inc.

3300 N Butler Farmington NM 87401

April 11, 1995

Elliot Oil Co. Box 1355 Roswell, NM 88202

RE:

Downhole Commingle Lydia Rentz No. 7

800' FNL & 1820' FWL, Sec. 20-T25N-R3W, Unit C

Rio Arriba County, New Mexico

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being notified of our request for an exception to NMOCD Rule 303-A. Texaco Exploration and Production Inc. proposes to downhole commingle the Blanco Mesaverde and the West Lindrith Gallup-Dakota pools within this wellbore.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

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

Sincerely,

Ted A. Tipton

Operating Unit Manager

sched Hindi /TAT

MRR/s

Attachments cc: file

Waiver Approval:

Company: EllioTT Oil

Y:

DATE: 4/11/95

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Return To