Re:

Administrative Approval to Downhole Commingle

Cross Timbers Operating Co.

State Gas Com "BZ" #1

1,850' FSL & 1,080' FEL Sec. 32, T29N, R10W

San Juan County, New Mexico

MAY 1 0 1999

Dear Operating Interest Owner / Offset Operator,

As an interest owner or offset operator in the above mentioned well, you are hereby notified that Cross Timbers Operating Co is filing for downhole commingle approval.

You have the right to file an objection to the commingling of the above mentioned well within twenty (20) days starting upon receipt of this letter. If you do not have any objections to the above well being commingled, you can either sign this letter waiving your rights to an objection or let the twenty days, upon receipt of this letter, expire.

Please return this letter or a letter of objection to Mr. David Catanach at the address listed.

Mr. David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Cross Timbers Oil Co sincerely appreciate your prompt response concerning this approval.

Signature, M.	Snow			Date: 5-4-99	
Term	Lezde				
Organization: Four	Ster	0:1	t Gas		



Ms. Lori Wrotenbery
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

VFR 261999

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Cross Timbers Operating Co.

State Gas Com "BZ" #1

1.850' FSL & 1.080' FEL Sec. 32, T29N, R10W

San Juan County, New Mexico

Dear Ms. Wrotenbery,

Cross Timbers Operating Company hereby request administrative approval to downhole commingle the Armenta Gallup and Otero Chacra pools in the above mentioned well. The well was originally completed as a dual completion with the Gallup being produced under a packer and up the tubing and the Chacra being produced up the casing. Currently both the Gallup and Chacra are producing as originally completed. Through internal analysis it appears that both zones have been under produced. The Gallup side of this well suffers from paraffin problems. Given the current configuration of the wellbore, it is impossible to began a paraffin chemical treatment. Therefore to improve the recovery of liquids and paraffin and to improve the ultimate recovery of production, Cross Timbers Operating Company is certain that if both zone are approved for downhole commingle then the above objectives can be obtained.

To comply with New Mexico Oil Conservation Rules, Cross Timbers Operating Co is submitting the following data for your approval of the proposed commingling:

- 1. C-107A Application for Downhole Commingle
- 2. C-102 Well Location & Acreage Dedication Plat
- 3. Production curves for both the Mesaverde & Chacra Formation
- 4. Offset Operators Plat
- 5. Well Location Plat

In accordance to New Mexico Oil Conservation Division Rule 303C, all interest owners and offset operators are being notified of this application. As an owner or offset operator, if you do not have any objections to this application, you do not have to respond to this notification.

If additional information is needed, please feel free to contact Cross Timbers Operating Co.

Sincerely,

Jeffery W. Patton

Production Engineer

CC: NMOCD -Aztec, Offset Operators, Public Lands.

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96

DISTRICT II

811 S. First St., Artesia, NM 88210-2835

1000 Rio Brazos Rd, Aztec, NM 87410-1693

Cross Timbers Operating Company

TYPE OR PRINT NAME <u>Jeffery W. Patton</u>

DISTRICT III

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 875054-6429

APPROVAL PROCESS: X__Administrative ___Hearing

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

TELEPHONE NO. (<u>505</u>) <u>324-1090</u>

EXISTING WELLBORE X_YES ___NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator	Address					
State Gas Com "BZ"	#1 I Well No. Unit Ltr Se	32 29N 10W ec - Twp - Rge	San Juan, NM County			
OGRID NO. <u>167067</u> Property Coc		Spacing (Unit Lease Types: (check 1 or more)			
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone			
Pool Name and Pool Code	Otero Chacra 82329		Armenta Gallup 02290			
Top and Bottom of Pay Section (Perforations)	2,881'-3,006' (perf'd)		5,385'-5,861' (open hole)			
Type of production (Oil or Gas)	Gas		Oil / Gas			
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing			
Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. ^(Current) 195 psi (meas)	a. 	a 716 psi (meas)			
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	_{b.} (Original) 878 psia (cal)	b.	ь. 1,200 psia (cal)			
6. Oil Gravity (^O API) or Gas BTU Content)	1178 btu		39.3 deg / 1224 btu			
7. Producing or Shut-In?	producing		producing			
Production Marginal? (yes or no)	yes		yes			
If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:			
If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 3-4-99 Rates: 0 bopd, 0 bwpd, 82 mcfpd	Date: Rates:	Date: 3-4-99 Rates: 1 bopd, 0 bwpd, 28 mcfpd			
Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: 75 %	Oil: Gas: %	Oil: Gas: 25 %			
If allocation formula is based submit attachments with supplying the submit attachments.	upon something other than currorting data and/or explaining n	ent or past production, or is banethod and providing rate proje	ased upon some other method, octions or other required data.			
 Are all working, overriding, and ro If not, have all working, overriding Have all offset operators been given 	yalty interests identical in all com ,, and royalty interests been notifie en written notice of the proposed	ed by certified mail?	Yes XNo Yes No Yes No			
11. Will cross-flow occur? X Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. X Yes No (If No, attach explanation)						
12. Are all produced fluids from all commingled zones compatible with each other?X_YesNo						
13. Will the value of production be decreased by commingling? Yes _X_No (If Yes, attach explanation)						
14. If this well in on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes No						
15. NMOCD Reference Cases for Rul	e 303(D) Exceptions: ORD	DER NO(S)				
* Production curve for e	tion method or formula.	not available, attach explanation.) ion rates and supporting data.				
I hereby certify that the information above is true and complete to the best of my knowledge and belief.						
SIGNATURE ///	atton	TITLE <u>Production Engineer</u>	DATE <u>4-16-99</u>			



OIL CONSERVATION DIVISION

P. O. UOX 2088 SANTA FE, NEW MEXICO 87501

Ferm C-107 Revised 10-1-7

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)perator	· · · · · · · · · · · · · · · · · · ·		Lease .		Well No.
AHOCO PRODUCTION COMPANY			STATE GAS COM	BZ	1
Juit Letter Section Township		ılp	Range		
I	32	29N	10W	San Ju	ıan
Actual Footage Locat			7080		
1850	South edt mont feet	bro enii	r	et from the E	East line
Ground Level Elev:	Producing Formation		P∞1 Bloomfield Chacr	ra/Armanta C	Ext Dedicated Acreage: Gallup 160/40
5678	Chacra / Gall		L		- Acres
2. If more that interest and3. If more than	i royalty).	ated to the wel	ll, outline each and is	dentify the own	nership thereof (both as to working
X Yes If answer is this form if No allowable	No If answer is "no," list the owners necessary.)	s "yes," type of and tract des	of consolidation criptions which have	actually been o	consolidated. (Use reverse side of (by communitization, unitization, has been approved by the Commis-
					CERTIFICATION
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	•		l ı		I hereby certify that the information con- tained herein is true and complete to the
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	·				Name ONO PROPERTY
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	Ī	Ţ		1 1	AMOCO PRODUCTION COMPANY
	1	. [1	Date
	Sec.	ļ	1 1	1 1	NOVEMBER 11, 1982
	1		1 1	· -	
	;	32	GALLUP		I hereby certify that the will location shown on this plat was plotted from field notes of actual surveys made by me or
	 		<u> </u>	0801	under my supervision, and that the same is true and correct to the best of my knowledge and belief.
	1		 	1	
	1 1		18501		November 10, 1982 Registered Professional Engineer
	!	CHACRA	1	40 7	Fred B: Kerr Jr.
		The state of the s	والمناز والمراجع والمراجع والمساورون		Certificate No.

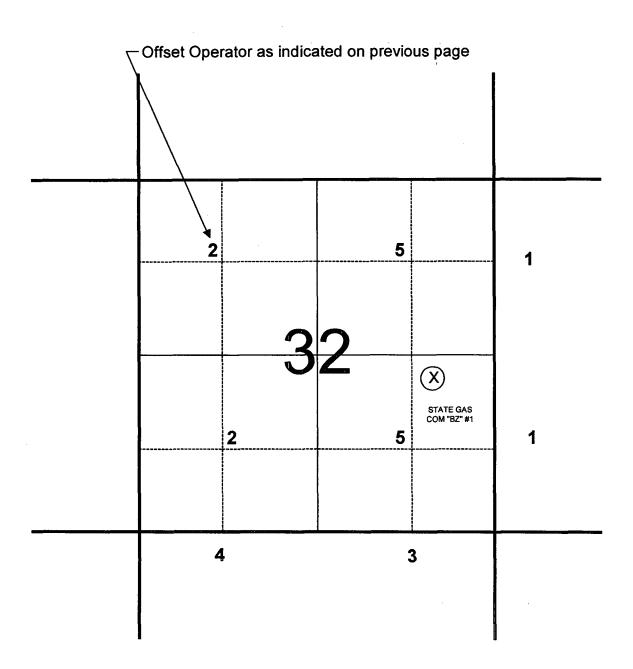
State Gas Com "BZ" #1 Offset Operator / Ownership Plat Armenta Gallup / Otero Chacra Downhole Commingle

Township 29N, Range 10 W / Township 28 N, Range 10 W

- Burlington Resources Oil & Gas Company 3535 E. 30th St. Farmington, NM 87402
- Four Star Oil & Gas Company c/o Texaco E & P Inc.3300 N Butler Ave.Farmington, NM 87401
- Energen Resources.
 2198 Bloomfield Hwy
 Farmington, NM 87401
- Amoco Production Co.
 200 Amoco Court
 Farmington, NM 87401
- Cross Timber Operating Co.
 2700 Farmington Ave. Bldg K Suite 1
 Famington, NM 87401

Overriding Interest Owners

- Sara Dawn Smith
 C/o New Mexico Educators Federal CU
 Acct #25660-9
 PO Box 8530
 Albuquerque, NM 87198-8530
- Duane Beck
 3605 Paseo Del Campo
 Palos Verdes Estates, CA 90274
- 3. Hugh J & Raimonda Mitchell Hugh J Mitchell, Trustee PO Box 1109 Farmington, NM 87499



Township 29N, Range 10W

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Signature:	Date:
Title:	
Organization:	

