### DISTRICT I

DISTRICT II

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

811 S. First St., Artesia, NM 86210-2835

State of New Mexico Energy, Minerals and Natural Resources Department

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

APPROVAL PROCESS:

Administrative — Hearing

## OIL CONSERVATION DIVISION

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

EXISTING WELLBORE X\_YES \_\_\_NO

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693 APPLICATION FOR DOWNHOLE COMMINGLING

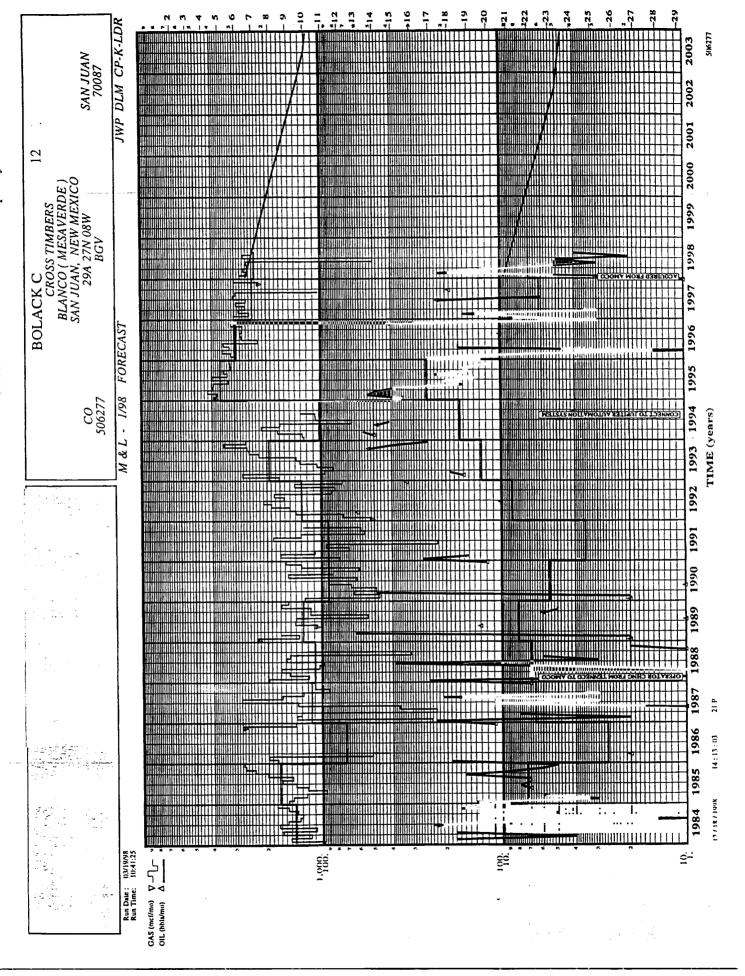
Cross Timbers Operating Compa	ny 2700 F	armington Ave., Bldg. K. St	e 1 Farmington, NM 87401	
Bloack "C" LS	#12 A	29 T27N 08W	San Juan	
		Spacing U	nit Lease Types: (check 1 or more)	
If a following facts are submitted in support of downhole comminguing	Luper Zone	ntermod ate Zane	l.ower Zcr-u	
Pool Name and     Pool Code	S. Blanco Pictured Cliff 72439		Blanco Mesaverde 72319	
Top and Bottom of     Pay Section (Perforations)	2284'-2306' (perf'd)		4554'-4688' (perf'd)	
Type of production     (Oil or Gas)	Gas	and the second s	Gas	
Method of Production     (Flowing or Artificial Lift)	Flowing	- ACTIONE N	Flowing	
Bottomhole Pressure     Oil Zones - Artificial Litt:     Estimated Current     Gas & Oil - Flowing:	a (current) 179 psia (cala)	#13.2 - 3 1933	617 psia (calc)	
Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original) 830 psia (calc)	b.	1076 psia (calc)	
Oil Gravity (OAPI) or     Gas BTU Content)	1147 btu	PART 1	1303 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	Date: Rates:	Date: Rates:	Date: Rates:	
estimates and supporting data  * If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 02/10/99 Rates: 15 mcfpd 0 bwpd 0 bopd	Date: Rates:	Date: 02/10/99 Rates: 77 mcfpd 0 bwpd 0 bopd	
Fixed Percentage Allocation     Formula -% for each zone	Oil: Gas: 24 %	Oil: % Gas: %	Oil: 100 % Gas: 76 %	
If allocation formula is based submit attachments with supp	upon something other than cur porting data and/or explaining	rent or past production, or is be method and providing rate proj	ections of office todamon and	
10. Are all working, overriding, and royalty interests identical in all commingled zones?  If not, have all working, overriding, and royalty interests been notified by certified mail?  Have all offset operators been given written notice of the proposed downhole commingling?  X Yes — No  Yes — No  Yes — No				
11. Will cross-flow occur? flowed production be recovered.				
12. Are all produced fluids from all commingled zones compatible with each other?  X Yes No				
13. Will the value of production be decreased by commingling?  Yes X No (If Yes, attach explanation)				
<ul> <li>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</li> <li>15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).</li> </ul>				
	ile 303(D) Exceptions: OH	DER NO(5).		
* Production curve for 6 * For zones with no pro * Data to support allocation  * Natification light and calls	to be commingled showing its space ach zone for at least one year. (I oduction history, estimated production method or formula. offset operators. offset operators, overriding, and royalty interests, data, or documents required.	t not available, attach explanation tion rates and supporting data.	.,	
· ·	I hereby certify that the information above is true and complete to the best of my knowledge and belief.			
SIGNATURE	Hillo	TITLE	DATE 2/18/99  SDS ) 324-1090	
TYPE OR PRINT NAME	SEFFERY WHATTON	TELEPHONE NO. (	<u>505 ) 324-1090</u>	

# W MEXICO OIL CONSERVATION COMM ON Well Location and Acrosse Dedication Plat

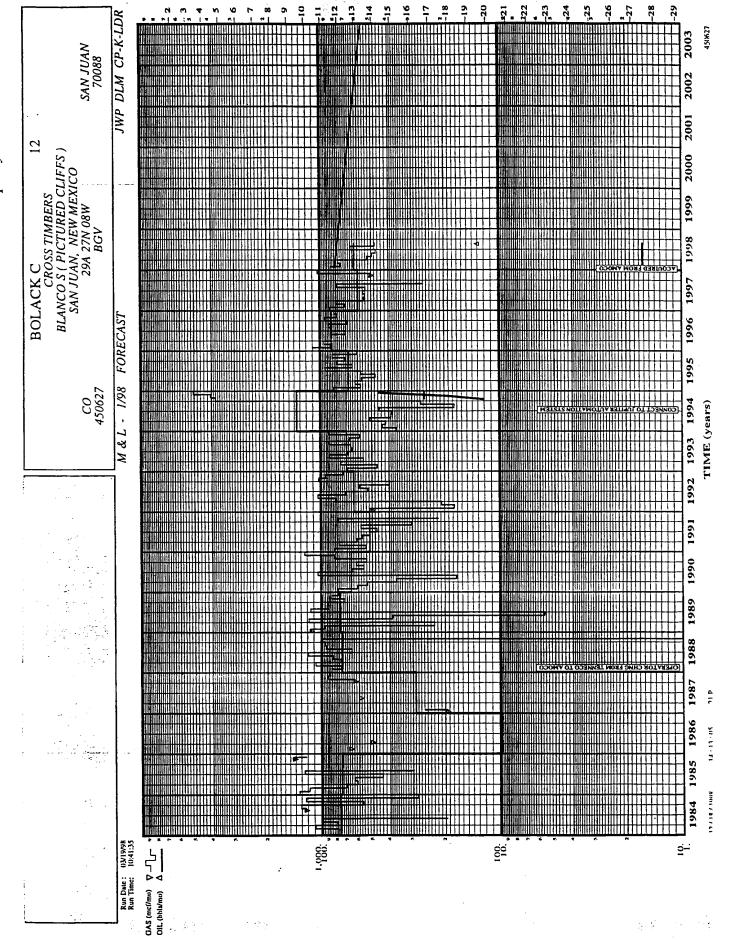
tion A.		Date JANUARY 31					, 1958	
erator EL PASO NATURAL II No. 12-C (PI) ait Letter cated 820 Feet From	NORTH L. Elevation VERDE &	on Line. 1 62 PICTURE ed acreage	<b>D CLIFF</b> autlined on	Dedicated Pool <b>BLA</b> the plat belo	27 N of From Acrosso NCO EXT.	SF 07923 Runga 8 L EAST 320 & 160 MV-SO. BL	W NMP Lin Acre ANCO PC.	
If the answer to question one is agreement or otherwise? Yes	s "по", hav	ve the inte	. If unswe	r is "yes",	Type of C	onsolidation.		
. If the answer to question two is Owner	"no", list	all the ow	norsand the Land		Descriptio	helow; n E		
		·		DIV.	11 (15 Ta 11 (15 Tag)		SURVEL MAY'S	
ection B.	٠	Note: A	Al distances	must be kee		^ <u>^</u>		
this is to certify that the informatic Section A above is true and composition that test of my knowledge and be El Pago Estural Gas Company	olete blief.	-				850	20'	
Original Signed D. C. Johns Representative					S.	F 079232		
Box 997 (Address)	<u>.</u>							
Farmington, New Mexico		-	. 4 .	SEET	X44/\$3//			
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Farmington, New Mexico

Cross Timbers Oil Company



Cross Timbers Oil Company



Re: Administrative Approval to Downhole Commingle

Cross Timbers Operating Co.

Bolack "C" LS #12

820' FNL & 990' FEL Sec. 29, T27N, R08W

San Juan County, New Mexico

Dear Offset Operator,

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

As an offset operator, 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.

Burlington Resources Oil & Gas	Signature:
Greystone Energy	Signature:
Roddy Productions	Signature:

Form 31/40-5 ds - ember 1994).

# U TIED STATES

DEPERTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135 Expires November 30, 2000

5. Lease Serial No.

ISF 079232

### SUNDRY NOTICES AND REPORTS ON WELLS

	proposals to drill or to re-enter an a 160-3 (APD) for such proposals	6. If Indian, Allottee or Tribe Name
	Other instructions on reverse side	7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well Oil X Gas Well Other  2. Name of Operator Cross Timbers Operating Company		8. Well Name and No. Bloack C LS #12
<ul> <li>3a. Address</li> <li>2700 Farmington Ave., Bldg. K. Ste</li> <li>4. Location of Weil (Footage, Sec., T., R., M., or Survey Descri,</li> <li>820' FNL &amp; 990' FEL Sec 29. T27N</li> </ul>	ption)	3004506277  10. Field and Pool, or Exploratory Area S Blanco Pictured Cliffs Blanco Mesaverde  11. County or Parish, State
12. CHECK APPROPRI	ATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT	
TYPE OF SUBMISSION	TYPE OF ACTION	
X Notice of Intent Subsequent Report Final Abandonment Notice	Alter Casing Fracture Treat Reclamat  Casing Repair New Construction Recompl	ete X Other DHC
If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be per following completion of the involved operations. If testing has been completed. Final Abandonment N determined that the final site is ready for final inspection.  Cross Timber Operating Co. has approximately approximately approximately contact the state of the contact that the final site is ready for final inspection.	It state all pertinent details, including estimated starting date of any polete horizontally, give subsurface locations and measured and true ver formed or provide the Bond No. on file with BLM/BIA. Required state operation results in a multiple completion or recompletion in a notices shall be filed only after all requirements, including reclamation.)  opplied to the NMOCD for downhole commingle alpopy of the application (C-107A)that Cross Times of the state of the sta	tical depths of all pertinent markers and zones, subsequent reports shall be filed within 30 days ew interval, a Form 3160-4 shall be filed once in, have been completed, and the operator has approval on the above



Conditions of approval, if any, are attached. Approval of this notice does not warrant of tertify that the applicant holds legal or equitable title to those rights in the subject least which would entitle the applicant to conduct operations thereon.	Office	
Approved by /S/ Duane W. Spencer	TiTeam Lead, Petroleum Menagement	MAR - 1 1999
THIS SPACE FOR FEDERAL	OR STATE OFFICE USE	
	ate 2/19/99	
4. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	Production Engineer	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Cross Timbers Operating Company

Ms. Lori Wrotenbery New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 RECENT SEFED 20 TH 2: 51 TO FE

Re:

Administrative Approval to Downhole Commingle Cross Timbers Operating Co. **Bolack "C" LS #12**820' FNL & 990' FEL Sec. 29, T27N, R08W San Juan County, New Mexico

Dear Ms. Wrotenbery,

Cross Timbers Operating Company hereby request administrative approval to downhole commingle the Blanco Mesaverde and South Blanco Pictured Cliffs pools in the above mentioned well. The well was originally completed as a dual completion with the Mesaverde being produced under a packer and up the tubing and the Pictured Cliffs being produced up the casing. Currently both the Mesaverde and Pictured Cliffs are producing. Through internal analysis it appears that both zones have been under produced. Most wells in this area (primarily Mesaverde wells) are very susceptible to liquid loading problems. Therefore to improve the recovery of liquids 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 & Pictured Cliffs Formation
- 4. Offset Operators Plat
- 5. Well Location Plat

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application. As an 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, BLM

DISTRICT II

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

1 \_\_

APPROVAL PROCESS:

Administrative \_\_\_Hearing

EXISTING WELLBORE

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

<u>DISTRICT III</u>

1000 Rio Brazos Rd, Aztec, NM. 87410-1693

Santa Fe, New Mexico 875054-6429

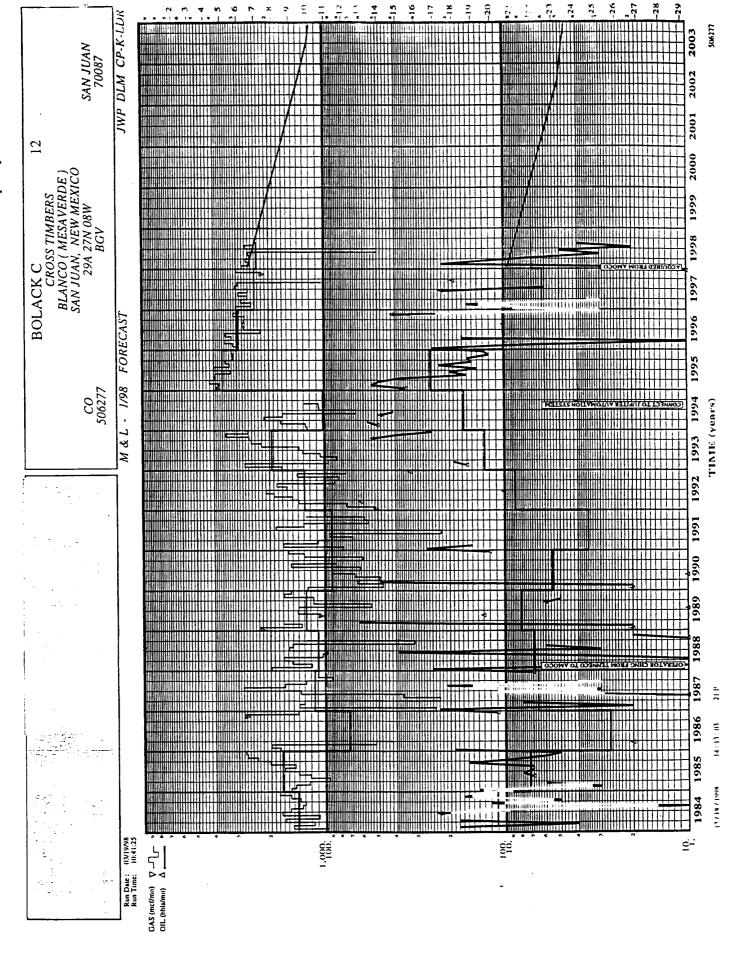
<u>X</u>\_YES \_\_\_NO

Bldg. K. Ste 1 Farmington, NM 87401 2700 Farmington Ave Cross Timbers Operating Company 08W San Juan **T27N** #12 Bloack\_"C" LS County Unit Ltr. - Sec - Twp - Rge Well No. Spacing Unit Lease Types: (check 1 or more) Lease , (and/or) Fee Federal X State API NO. 3004506277 Property Code 022596 OGRID NO. 167067 Lower Intermediate The following facts are submitted in support of downhole comminging Upper Zone Zore Zoner Blanco Mesaverde S. Blanco Pictured Cliff 1. Pool Name and 72319 Pool Code 72439 4554'-4688' (perf'd) 2284'-2306' (perf'd) Top and Bottom of Pay Section (Perforations) Gas 3. Type of production (Oil or Gas) Gas Method of Production
 (Flowing or Artificial Lift) Flowing Flowing a. (Current) 5. Bottomhole Pressure 9) j. j. 617 psia (calc) Oil Zones - Artificial Lift: 179 psia (calc) Estimated Current Gas & Oil - Flowing: b. (Original) Measured Current ъ. 1076 psia (calc) All Gas Zones: 830 psia (calc) Estimated Or Measured Original 6. Oil Gravity (<sup>O</sup>API) or Gas BTU Content) 1303 btu 1147 btu Producing Producing 7. Producing or Shut-In? yes Production Marginal? (yes or no) yes Date: \* If Shut-In, give date and oil/gas/ Date: Rates water rates of last production Raies Rates Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data Date: 02/10/99 Date Date: 02/10/99 If Producing, give date and oil/gas/ Rates: Rates Rates

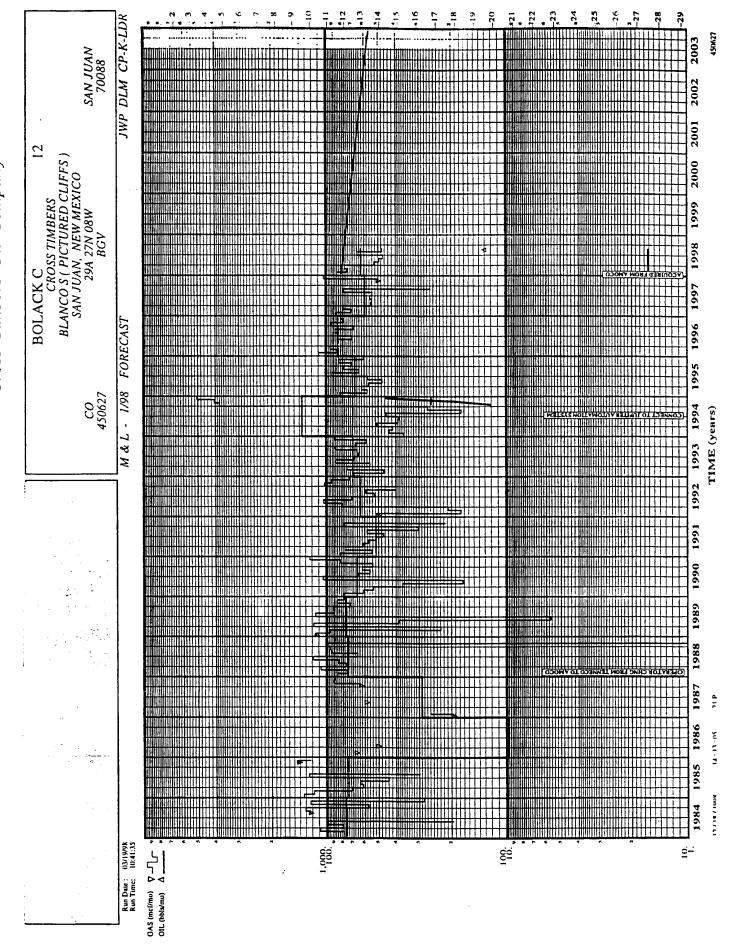
-}

Section A.			•	
Operator EL PASO NATURAL GAS COMPA Well No. 12-C (PM) nit Letter A Section NORTH	· '', U	v. m 55 m 2 3 27	m ( Carrier Langua	NMPM Line
Located 820 Feet From NORTH County SAN JUAN G. L. Elevation	6231	Dadioson Acres	320 & 160	Acres
MESA VERDE & P	ICTURED CLIFF		EXT. MV-SO. BLANCO	r.
1. Is the Operator the only owner in the dedicated	acreage outlined o	a the plat below?		••
			consolidated by communi	itizaion
2. If the answer to question one is "no", have	the interests of a	or is the series. Type	of Consolidation.	
2. If the answer to question one is "no", have agreement or otherwise? Yes	II msw	C1 48 300 C C		
3. If the answer to question two is "no", list al	I the owners and tr	ieir respective latei	rests below;	
Owner		Lind Desc	ription	
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Section 3.	Note: All dist ma	<del></del>	i i i i i i i i i i i i i i i i i i i	<b>X</b> X
information				<b>%</b>
This is to certify that the information in Section A above is true and complete		×/,	8	<b>※</b>
the test of my knowledge and belief.		×/.	990	<b>3</b> \$
		<b>%</b> /2	-/	<b>X</b>
El Paso Estural Gas Company (Operator)		₩,		<b>1</b>
Original Signed D. C. Johns'on		₩/,		\\
Representative		×/,	SF 079232	₩
Box 997		\$/ <sub>2</sub>	<b>5.</b> • · · · · · · · /	₩
(Address)		. <i>X/</i>		<b>※</b>
Farmington, New Mexico	÷	SEET 1910	<b>38</b> //////////	∕\
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1717	ify that the above	plan was propared	from field notes of actu	al surveys
made by me or	under my supervice	ion and that the si	ame are true and correct.	to the best
of my knowled	ge and belief.	•	•	
(Seal)	t	) are surveyed	NOVEMBER 25, 1957	) )
281 - Tanana Barana (1981)		1 . D	Q. Viluen	<b>/</b>
Farmington, New Mexico	. i	Registered Professi	ional Engineer and or Lar	nd Surveyor

Cross Timbers Oil Company



Cross Timbers Oil Company



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

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Burlington Resources Oil & Gas	Signature:	
Greystone Energy	Signature:	
Roddy Productions	Signature:	-3/-8-1