

Ms. Lori Wrotenbery New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 0103

March 17, 2000



Re: Administrative Approval to Downhole Commingle C. A. McAdams D #1 1,910' FSL & 1,540' FWL Sec 20, T27N, R10W San Juan County, New Mexico

Dear Ms. Wrotenbery,

Cross Timbers Operating Company requests administrative approval to downhole commingle the Angel Peak Gallup and the Basin Dakota pools in the referenced well.

The Dakota was completed in 1965. In September 1999 the Dakota was isolated and the well recompleted to the Gallup. During the recompletion it was determined the well had a casing leak. This was repaired prior to completing the Gallup. Both the Gallup and the Dakota production are marginal and the economics of the well would benefit by commingling.

The proposed allocation of commingled production is based on the most recent tests that are representative of each formation. The Dakota production was evaluated through June 1998. Production after June 1998 is unreliable due to a casing leak. The Gallup test is based on January 2000 production. See attached allocation method sheet for the proposed calculations.

The following is enclosed for you review of the proposed commingling:

- 1. C-107-A
- 2. C-102 (Dakota and Gallup)
- 3. Well Location Map
- 4. Production Curve (Dakota)
- 5. Allocation Method Sheet
- 6. Interest owner list
- 7. Notification Letter

All working, royalty and override interest and the Farmington District BLM office are being notified by certified mail of this proposed commingling.

If you need additional information or have any questions, please feel free to contact me at (505)-324-1090.

Sincerely,

Thomas DeLong Production Engineer

CC: NMOCD – District III (Aztec)
BLM (Farmington District Office)

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT III
811 South First St., Artesia, NM 88210
DISTRICT IIII
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

Cross Timbers Operating Co.

State of New Mexico Energy, Minerals and Natural Resources Department

Experience Experience

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A Revised August 1999 X Administrative __Hearing

2700 Farmington Ave K#1 Fmn, Nm 87401

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS: EXISTING WELLBORE XYES _ _ NO

C.A. mc Adams D	Well No. Unit Lir.	Scc. 20 Tato, RIO	u San Juan			
Spacing Unit Lease Types: (check 1 or more) OGRID NO. 167067 Property Code 022599 API NO. 30-0451156 Federal X, State, (and/or) Fee						
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone Angel Peak Gallup 02170	Intermediate Zone	Lower Zone Basin Dakata 71599			
Top and Bottom of Pay Section (Perforations)	5,278'-5,560'		6.154'-6.232'			
3. Type of production (Oil or Gas)	Gas		Gas			
Method of Production (Flowing or Artificial Lift)	(Rod Pump System)		flowing			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 3960519 (measured) b. (Original)	a. b.	в. 2,474 (casc)			
6. Oil Gravity (EAPI) or Gas BTU Content	1'983		1.909			
7. Producing or Shut-In?	51		51			
Production Marginal? (yes or no) * 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 * If Producing, give date andoil/gas/ water rates of recent test	Date: 2/13/2000 Rates: 2.3 BDPD/18WPD/104mGPD Date: Rates:	Date: Rates: Date: Rates:	Yes Date: 9121199 Rates: 180PD/08WPD/29MCFPD Date: Rates:			
(within 60 days) 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: 77.11%	Oil: Gas: %	Oil: Gas:			
9. If allocation formula is based upon something other than current or past production, or is based upon some other method submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 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? Yes No 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. Yes No (If No, attach explanation) 12. Are all produced fluids from all commingled zones compatible with each other? Yes No 13. Will the value of production be decreased by commingling? Yes No (If Yes, attach explanation) 14. If this well is 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. Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). 16. ATTACHMENTS: * C-102 for each zone to be commingled showing its spacing unit and acreage dedication. * Production curve for each zone for at least one year. (If not available, attach explanation.) * For zones with no production history, estimated production rates and supporting data. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Any additional statements, data, or documents required to support commingling.						
I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE TITLE Production Formation 21/7/2000						
TYPE OR PRINT NAME Thomas DeLong TELEPHONE NO. (505) 324-1090						

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-101 Revised October 18, 19 Instructions on ba

OIL CONSERVATION DIVISION 2040 South Pacheco RECEIVED Santa Fe, NM 87505 BLM Submit to Appropriate District C State Lease - 4 Copi Fee Lease - 3 Copi

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

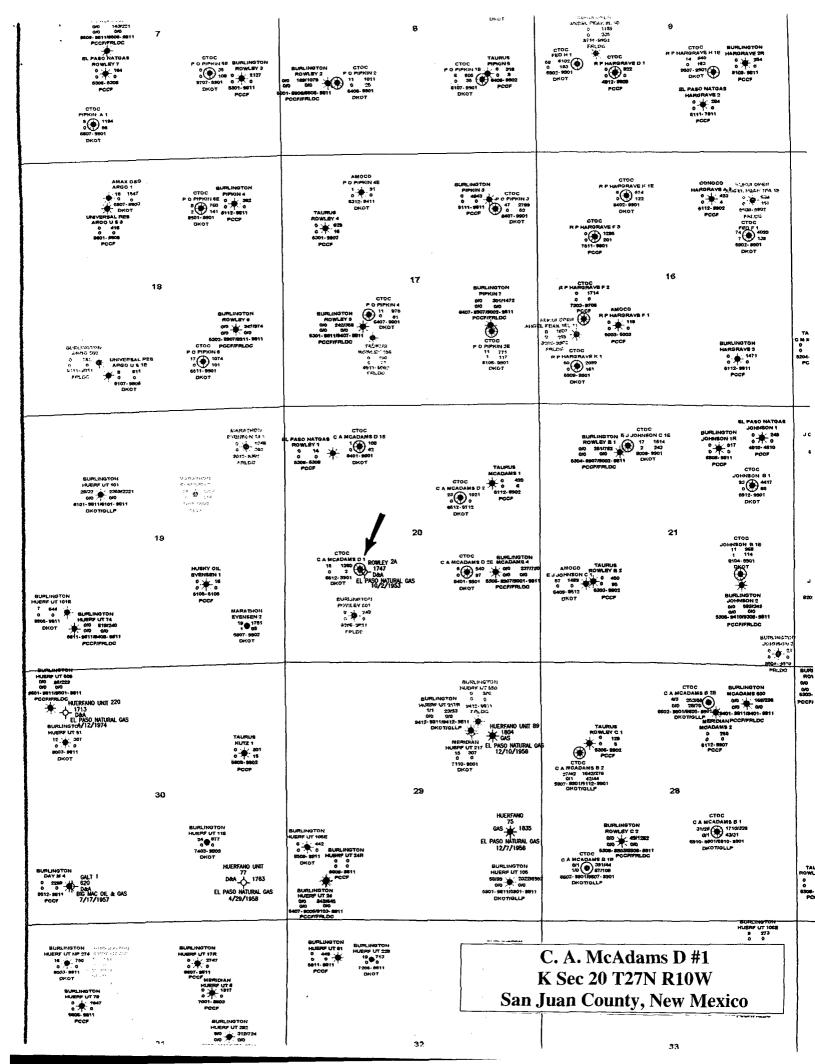
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	API Numbe	-									
	-045-115	62		02170 Angel Peak Gallup							
⁴ Property		1		5 Property Name 6 Well Num							
0225					C. A McAdams D #1						
7 OGRID	No.				8 Oper	Operator Name 9 Elevation				Elevation	
1670	67			Cross Timbers Operating Company 5973' KB					5973' KB		
	¹⁰ Surface Location										
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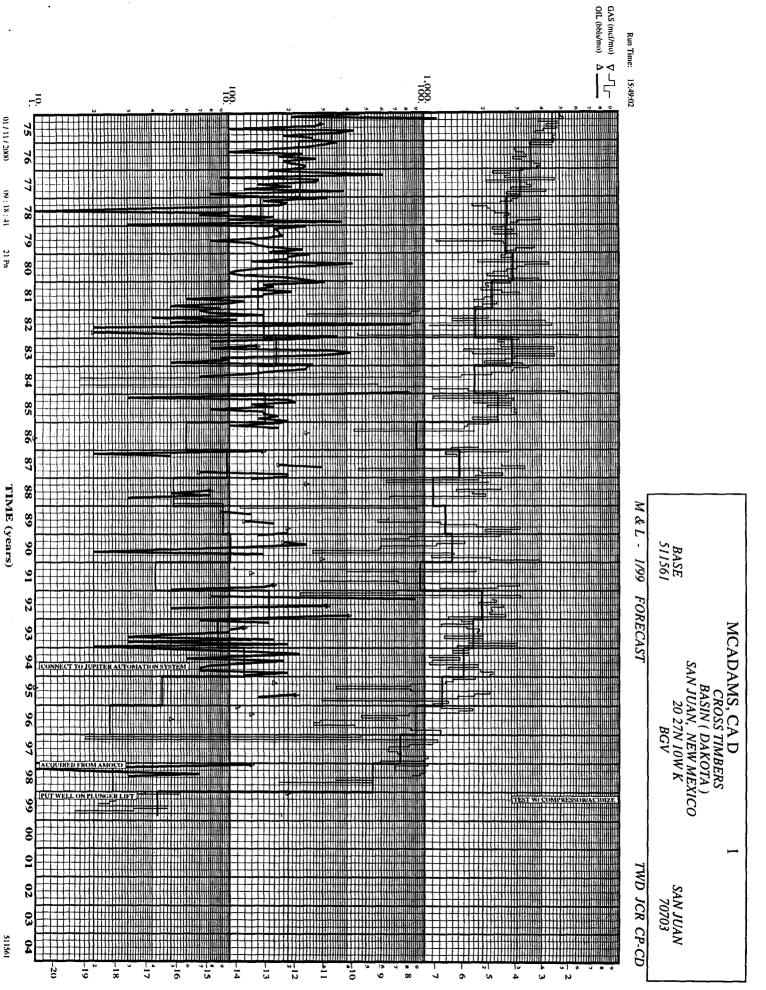
Form C-102 Supersedes C-128 Effective 14-65

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator					Well No.		
Pan American Petroleum Corporation			C. A. McAdams "D"			<u> </u>	
Unit Letter Section	1		Range	o 14. A	County		•
K I		North		0 West	S	an Juan	
Actual Footage Location of			1540	•		West	
Ground Level Elev:	from the South	line and	1540		t from the		line
	Producing Formation Dakota			Boots Del	rot o		· ·
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 If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 							
	nitization, unitizatio	n, force-pool	ing. etc?		,		
Yes	No If answer is	"yes;" type	of consolid	lation			
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		nd tract des	criptions w	hich have a	ctually be	en consolidate	d. (Use reverse side of
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	or otherwise) or until	a non-standa	rd unit, eli	minating su	ch interest	s, has been a	pproved by the Commis-
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CROSS TIMBERS OPERATING COMPANY

C. A. McAdams D #1 K Sec 20 T27N R10W San Juan County, New Mexico

Gallup & Dakota Allocation Method

Current production potential was determine for each formation. Rate for the Dakota was determined by analyzing the attached production decline curve. It should be noted that the well had downhole mechanical problems (casing leak) which, from analysis of the decline curve, has effected production since June 1998. The casing leak was repaired prior to completing the Gallup. The Dakota is projected to have a potential of 950 MCFPM and 10 BOPM.

The Gallup was completed in September 1999. Production was erratic for several months. January 2000 production was reasonably stable and was used as the Gallup potential.

Angel Peak Gallup potential:

70 BOPM

3,200 MCFPM

Basin Dakota potential:

10 BOPM

950 MCFPM

Oil Allocation:

Gallup $\underline{70}$ = .875 or 87.5% of total commingled production.

10 + 70

Dakota $\underline{10}$ = .125 or 12.5% of total commingled production

10 + 70

Gas Allocation: Gallup 3,200 = .7711 or 77.11% of total commingled production.

3,200 + 950

Dakota 950 = .2289 or 22.89% of total commingled production

3,200 + 950

C. A. McAdams D #1 Sec. 20, T27N, R10W San Juan County, New Mexico

INTEREST OWNERS

J. Burton Veteto 607 Abo Hobbs, NM 88240

Julie Ann Antweil Trust Julie A. Silverman, Trustee 4408 Canyon Court NE Albuquerque, NM 87111

Union Oil Co. of California Attn: Revenue Accounting PO Box 841055 Dallas, TX 75284-1055

United Pipe & Supply Co. 3622 Ranch Creek Dr. Austin, TX 78730

H.W. Smith Estate Gary Harvey, Indep Executor 300 S.W. 21st Street Seminole, TX 79360

Robert M. Williams 408 East Alto Hobbs, NM 88240

Rachel Lyman PO Box 3726 Midland TX 79702

C.V. Lyman Trust Rachel Lyman & Thomas Brown Trustees U/W/O PO Box 3726 Midland, TX 79702

James L. Sharp & Kathryn B Sharp Revoc Living Trustee Dated 4/11/97, JL & KB Sharp, Trstes 1020 Foxwood Lane Wylie, TX 75098

C. A. McAdams D #1 Sec. 20, T27N, R10W San Juan County, New Mexico

INTEREST OWNERS

White Star Energy, Inc PO Box 51108 Midland, TX 79710

Singer Brothers Dept. 1063 Tulsa, OK 74182

Silverado Oil and Gas PO Box 51338 Midland, TX 79710-1338

Evelyn Smith 10412 Stone Canyon Dallas, TX 75230-4834

Dansby, Ben, Jr Estate Michael Fitz-Gerald and James Fitz-Gerald III, Co Pers Rep PO Box 710 Midland, TX 79702-0710

Conoco Inc. Attn: Tammy P. Herring-DU3056 PO Box 2197 Houston, TX 77252-2197

Energen Resources Corp 2198 Bloomfield Hwy Farmington, NM 87401

Burlington Resources Attn: Dawn Garretson PO Box 4289 Farmington, NM 87499 March 16, 2000

RE: Downhole Commingling Application C. A. McAdams D #1 1,910' FSL & 1,540' FWL Sec. 20, T27N, R10W San Juan County, New Mexico

Dear Interest Owner;

Cross Timbers Operating Company is filing the attached application to downhole commingle the Gallup and Dakota formations in the subject well. Records indicate you are an interest owner in the C.A. McAdams D #1 and this letter is notification of the proposed commingling.

If you do not have any objections to the proposed commingling, you can sign a copy of this letter or allow twenty days, from receipt of this letter, to expire. If you wish to object to commingling, it must be done within twenty days from receipt of this letter.

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

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

Your prompt attention to this matter is appreciated

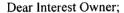
Sincerely,		
Thomas DeLong Production Engineer		
TD/ks		
Enclosure (1)		
I do not object to the proposed commingling.		
Ву:	Date:	
For:		



March 16, 2000

Union Oil Co. of California Attn: Revenue Accounting PO Box 841055 Dallas, TX 75284-1055

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CONSERVATION DIVISION

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Sincerely

Thomas DeLong **Production Engineer**

TD/ks

Enclosure (1)

I do not object to the proposed commingling.

Date: 3/31/2000



March 16, 2000

Energen Resources Corp 2198 Bloomfield Hwy Farmington, NM 87401

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

Your prompt attention to this matter is appreciated

Sincerely

Thomas DeLong Production Engineer

TD/ks

Enclosure (1)

I do not object to the proposed commingling.

Date: 3-23-00

RESOURCES Cong.



March 16, 2000

Singer Brothers Dept. 1063 Tulsa, OK 74182

RE: Downhole Commingling Application C. A. McAdams D #1 1,910' FSL & 1,540' FWL Sec. 20, T27N, R10W San Juan County, New Mexico

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

Your prompt attention to this matter is appreciated

Thomas DeLong

Production Engineer

TD/ks

Enclosure (1)

I do not object to the proposed commingling.

For: Sincer Bros.

Date: 3/23/00



March 16, 2000

J. Burton Veteto 607 Abo Hobbs, NM 88240

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Sincerely

Thomas DeLong Production Engineer

TD/ks

Enclosure (1)

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By:

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