

COMMERCIAL RESOURCES (505)-827-5724

SURFACE RESOURCES (505)-827-5793

MINERAL RESOURCES (505)-827-5744

> ROYALTY (505)-827-5772

State of New Mexico
Commissioner of Public Lands

Ray Powell, M.S., D.V.M.
310 Old Santa Fe Trail, P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Phone (505)-827-5760, Fax (505)-827-5766

PUBLIC AFFAIRS (505)-827-5765

ADMINISTRATIVE MQMT. (505)-827-5700

LEGAL (505)-827-5713

PLANNING (505)-827-5752

October 5, 1999

Conoco, Inc. P.O. Box 2197 DU 3066 Houston, Texas 77252-2197

Attn:

Ms. Deborah Moore

Re:

Downhole Commingling Application
San Juan 28-7 Unit Well No. 155
Unit Letter K, Section 22-27N-07W
Oters Chacra and Blanco Pictured Cliffs

Otera Chacra and Blanco Pictured Cliffs South Pools

Rio Arriba County, New Mexico

Dear Ms. Moore:

Your application to downhole commingle the Otera Chacra and Blanco Pictured Cliffs South production from within the wellbore of the above-captioned well was received on September 15, 1999.

Since it appears that all the New Mexico Oil Conservation Division's rules and regulations have been complied with, and there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Please submit your \$30.00 dollar filing fee.

Also, please submit the appropriate approvals from the New Mexico Oil Conservation Division and the Bureau of Land Management.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.

COMMISSIONER OF PUBLIC LANDS

BY:

JAMI BAILEY, Director Oil, Gas and Minerals Division

(505) 827-5744

RP/JB/cpm Enclosure

xc: Reader File

OCD--Attention: David Catanach, Ben Stone
WE WORK TORED (CATION)

BLM

DATE IN 10/19/	99 SUSPENSE	89	9 E HOINEER	DC	LOGGED BY	TYPE DHC
		$T = T^{-1}$				······································

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

25/3

ADMINISTRATIVE APPLICATION COVERSHEET

	ADMINISTRATIVE ALL EIGATION GOVERNMENT
THIS CO	VERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
ł	ms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] C-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] PR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE O]	F APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling
	OCT 19 1999
C	heck One Only for [B] and [C]
E)	COMPANY OF THE STATE OF THE STA
C	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
[2] NOTIFIC	CATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
	A] Working, Royalty or Overriding Royalty Interest Owners
ŋ	B]
[1	C] Application is One Which Requires Published Legal Notice
. [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached
[3] INFORM	MATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I homoby contify	that I are margament under mar gramminian. It was an all and a sure it at the attended to the

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Deborah Moore (281) 293-1005 Regulatory Analyst
Print or Type Name Signature

9/8/99

Date

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

2040 S. Pacheco, Santa Fe, NM 87505

DISTRICT IV

Conoco Inc.

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

P.O. Box 2197 DU 3066 Houston, TX 77252-2197

Form C-107-A Revised March 17, 1999

APPROVAL PROCESS:

APPROVAL PROCESS:

__X_ Administrative ___Hearing

___ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

EXISTING WELLBORE

San Juan 28-7	#155 K. Sec	c. 22, T-27N, R-7W	Rio Arriba						
Lease			County ring Unit Lease Types: (check 1 or more)						
OGRID NO. <u>005073</u> Property Code <u>0</u>			X , State, (and/or) Fee						
The following facts are submitted in	Upperi Zone	Intermediate	Lower Zone						
The following facts are submitted in support of downhole commingling:		Zone	NUMBER OF STREET OF THE PROPERTY OF STREET STREET STREET OF STREET OF STREET OF STREET OF STREET STREET, STREET ST						
1. Pool Name and Pool Code	Blanco P.C. South 72439		Otera Chacra 82329						
Top and Bottom of Pay Section (Perforations)									
Type of production (Oil or Gas)	Gas		Gas						
4. Method of Production (Flowing or Artificial Lift)	To Flow		To Flow						
5. Bottomhole Pressure	(Current) 381	a.	a. 540						
Oil Zones - Artificial Lift: Estimated Current	a. 301								
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b. 1251						
6. Oil Gravity (EAPI) or Gas BTU Content	1189		1148						
7. Producing or Shut-In?	To be completed		To be completed						
Production Marginal? (yes or no)	Date:	Date:	Date:						
* If Shut-In, give date and oil/gas/ water rates of last production	Rates: Est. 250 mcfd	Rates:	Rates: Est. 125 mcfd						
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data									
If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:						
8. Fixed Percentage Allocation Formula -% for each zone (total of %s to equal 100%)	Oil: Gas:	Oil: Gas: %	Oil: Gas:						
9. If allocation formula is based submit attachments with supp	upon something other than cur	rent or past production, or is b	ased upon some other method,						
10. Are all working, overriding, ar If not, have all working, overr Have all offset operators been									
11. Will cross-flow occur? X Y	es No If ves, are fluids c	ompatible, will the formations							
12. Are all produced fluids from a	ll commingled zones compatibl	e with each other? X Y	es No						
13. Will the value of production b	e decreased by commingling?	Yes <u>_X</u> _ 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 applicationYes 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. * Data to support allocation method or formula. * Notification list of all offset operators. * 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 Debora	\mathcal{A}								
TYPE OR PRINT NAME Deborah Mo	ore TEL	EPHONE NO. (281) 293-100	5						

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

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

Form C-102 Revised March 17, 1999

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

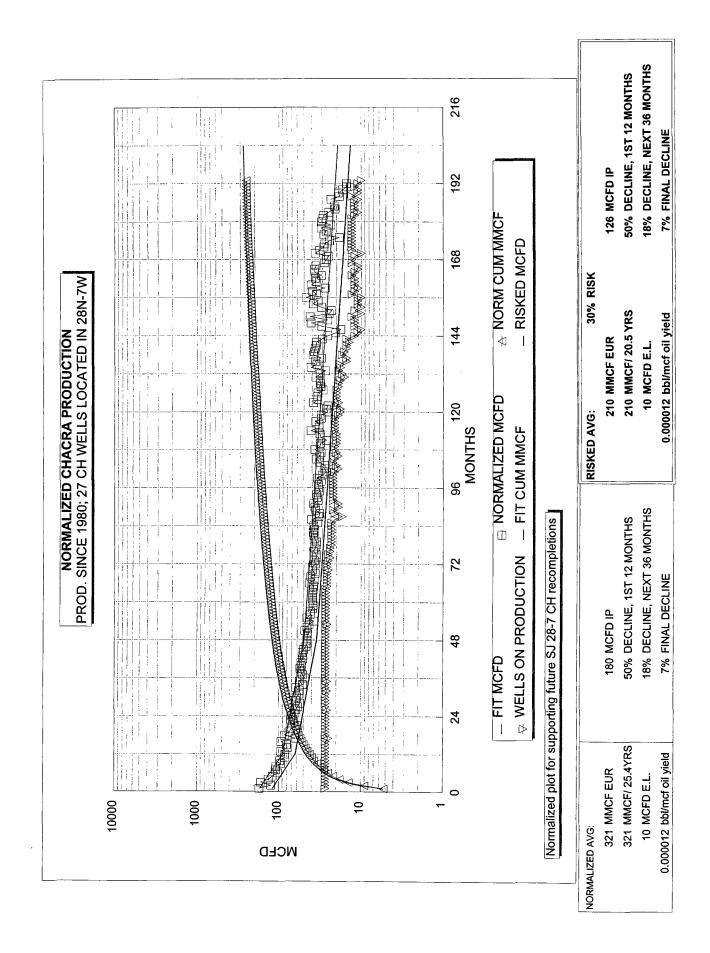
AMENDED REPORT

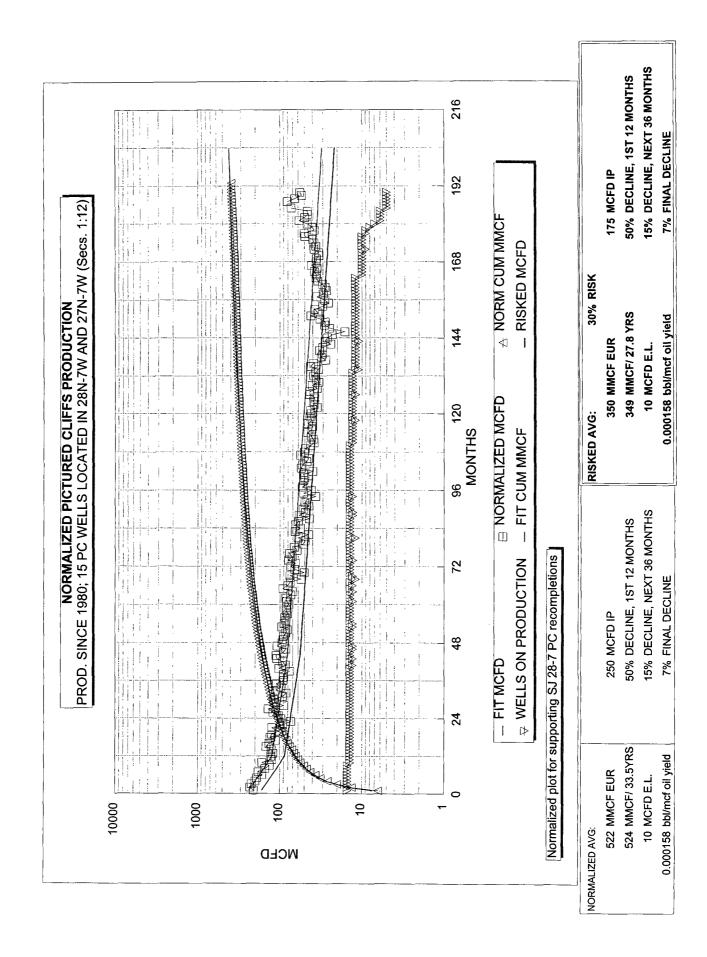
۲	XΪ	ΕĪ	T	T	\cap	C I	T	10	M	Δ.	ND	Δ	C	RF	Δ	GE	\mathbf{D}	F	D	1	٠Δ	Т	IC	N	F	Ţ	Δ	Г
٦	YV.	டப	ட		\sim	$oldsymbol{oldsymbol{arphi}}$	УT	\mathbf{r}	יוי	$\boldsymbol{\Omega}$	いル	$ \alpha$	\mathbf{v}	м	-	UL	$\boldsymbol{\mathcal{L}}$	Ŀ	$\boldsymbol{\nu}$	ľ	$^{\prime}$		ľ	, T J	1	<u>با</u>	◜.	1

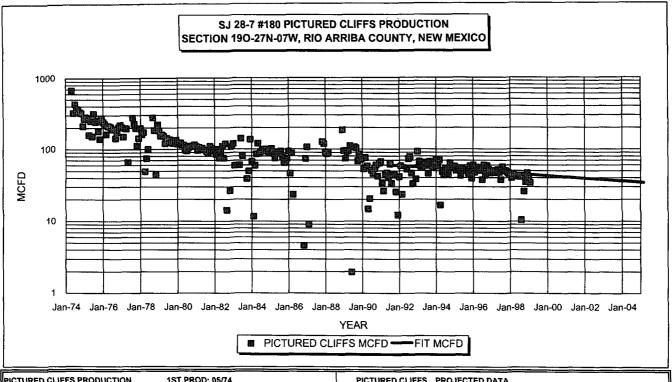
		WE	ELL LO	CATION	I AND ACRI	EAGE DEDICA	ATION PLA	.T				
	PI Number 0-039-20430		724	² Pool Code 39/8232		³ Pool Name Blanco S. Pictured Cliff / Otero Chacra						
⁴ Property C	ode				5 Property Na	ame		" W	⁶ Well Number			
016608 San Juan 28-7 Unit									#155			
OGRID No. Operator Name								,	° Elevation			
005073 Conoco Inc.									6581'			
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
K	22	27N	7W	7W		South	1650	West	Rio Arriba			
¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
12 Dedicated Acres	¹³ Joint o	r Infill 14 Co	onsolidation	Code 15 Or	der No.							
160/320												

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION									
1650	NON-STAND	Printed Name Deborah Moore Title Regulatory Analyst Date 08/12/99 18 SURVEYOR CERTIFICATION 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 belief.							
		Certificate Number							







PICTURED CLIFFS PR	ODUCTION	1ST PROD: 05/74		PICTURED CLIFFS	PROJECTED DATA	
OIL CUM:	0.00	MBO	}	Oct.99 Qi:	43	MCFD
GAS CUM:	808.2	MMCF		DECLINE RATE:	4.0%	(EXPONENTIAL)
OIL YIELD:	0.0000	BBL/MCF				

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

	MID-YEAR	MID-YEAR
YEAR	AVG. MCFD	AVG. BOPD
2000	42	0
2001	40	0
2002	39	0
2003	37	0
2004	36	0
2005	34	0
2006	33	0
2007	31	0
2008	30	0
2009	29	0
2010	28	0
2011	27	0
2012	26	0
2013	25	0
2014	24	0
2015	23	0
2016	22	0
2017	21	0
2018	20	0
2019	19	0
2020	18	0
2021	18	0
2022	17	0
2023	16	0
2024	16	0
2025	15	0
2026	14	0
2027	14	0

