DHC 7/28/97

Chateau Oil and Gas, Inc.

1640

July 3, 1997

William J. LeMay New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe. New Mexico 87505-6429



Re: Application for Administrative Approval of Downhole Commingle for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Dear Mr. LeMay:

Chateau Oil and Gas, Inc. hereby requests authorization to downhole commingle the Basin Dakota and Blanco Mesaverde formations within the above referenced well. The gas streams are presently completed to produce as a dual completion. Enclosed is the completed Form C-107-A along with the various supporting attachments.

We would propose that the production be allocated with 79.3% of the gas and 73.2% of the oil going to the Dakota formation; 20.7% of the gas and 26.8% of the oil going to the Mesaverde formation. This allocation is based on the cumulative production history. From September 1957 to May 1997 the Dakota has produced 2,814,117 MCF of gas and 23,751 barrels of oil. The Mesaverde has produced 733,329 MCF of gas and 8,689 barrels of oil. Please see the attached fixed percentage allocation formula sheet.

The working interest, royalty and overriding royalty owners are the same for both zones and the percentages of ownership are also the same. All owners have been notified by certified letter of the proposed commingling and have been provided a copy of the Form C-107-A.

The current well bore condition is very complex (see attached well bore diagram) with the Dakota formation presently producing through a Baker Model E cross over by pass seal assembly into a 1 ½" tubing string. The Mesaverde was set up to produce through the casing annulus. There is an overshot grapple and tubing patch in the hole which relates to work done in June 1985. A recent packer leakage test indicated that there is communication between the two zones. With approval of this application, both zones would continue to be produced through the current well bore configuration.

With the above described well bore condition, it was not possible to obtain current bottom hole pressure test information. Therefore, information was obtained on the Williams 1 located in Section 24, T31N, R13W which is in the adjacent section approximately 3500 feet from the subject well. It is anticipated that these pressures are representative of the pressures that would be observed in the Southern Union 1 well.

Page 2 - Application for Commingling on the Southern Union 1.

In addition, copies of the water analysis information are provided on the Candado 1E which is from water samples on the same producing zones. This information has also been used in determining fluid compatibility on prior commingling applications which have been approved by the Division.

If you have any questions concerning the information provided, please contact me or Dana Dutcher at 214-891-3350.

Sincerely

John V. Peters

Vice President - Operations

cc: N.M. Oil Conservation Division, Aztec

BLM, Farmington

DISTRICT II

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

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS:

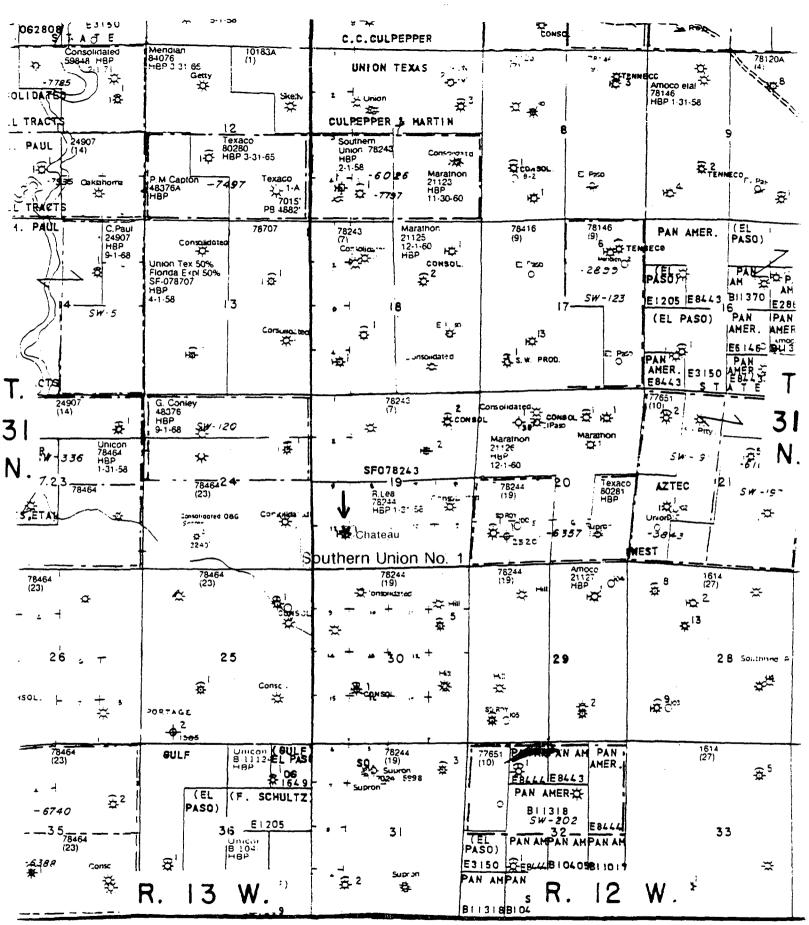
811 South First St., Artesia, NM 88210-2635 DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

___ Administrative ___Hearing **EXISTING WELLBORE** __ YES __ NO

Chateau Oil and Gas, In	c 5950 Berkshire Ln,	Suite 275, Dallas, Tx	75225		
Southern Union	1 M	19-31N-12W	San Juan		
DGRID NO. <u>159819</u> Property Code			County Unit Lease Types: (check 1 or more) X , State, land/or/ Fee		
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone		
Pool Name and Pool Code	Blanco Mesaverde 72319	-	Basin Dakota 71599		
Top and Bottom of Pay Section (Perforations)	4613' - 4819'	· -	6747' - 6802'		
3. Type of production (Oil or Gas)	GAS	_	GAS		
4. Method of Production (Flowing or Artificial Lift)	Flowing	_	Flowing		
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Ges Zones:	a. (Current) 301 psi (offset - Williams #1)		a. 419 psi (offset - Williams #1		
All Gas Zones: Estimated Or Measured Original	b. (Original) 1067 psi (est) 9/57	b	b. 2077 psi (est)9/57		
6. Oil Gravity ([°] API) or Gas BTU Content	1210 BTU	_	1261 BTU		
7. Producing or Shut-In?	Shut-in		Producing		
Production Marginal? (yes or no)	Yes		Yes		
If Shut-in, give date and oil/gas/ water rates of last production	Date: 5/15/91 Retes:	Date: — Rates: —	Date: Rates:		
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Trace				
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: — Retes: —	Date:	Date: 5/97 Rates: Trace		
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 26.8 % Gas: 20.7 %	Oii: _ % Gas: _ %	Oil: 73.2 % Gas: 79.3 %		
submit attachments with sup 10. Are all working, overriding, ar If not, have all working, over Have all offset operators been	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? 11. Will cross-flow occur? 12. Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross-				
12. Are all produced fluids from a					
13. Will the value of production be decreased by commingling? Yes X 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. X Yes No					
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).					
* 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	•				
SIGNATURE JUNDU	tu	TITLE Vice President	DATE 7/3/97		
TYPE OR PRINT NAMEJohn \		TELEPHONE NO. (



Chateau Oil & Gas, Inc.
Southern Union No. 1
Section 19-T31N-R12W
San Juan County, New Mexico

(1)	T #17 BO * 1	(**	

Pie K			
U.S.G.5			
COMO GPPICE		L	
*******	96.	Į	
des			
#00047106 0FF	CK		
CF EWATOR		1	

NEW MEXICO OIL CONSERVATION COMMISSION Revised 5/1/57 WELL LOCATION AND ACREAGE DEDICATION PLAT

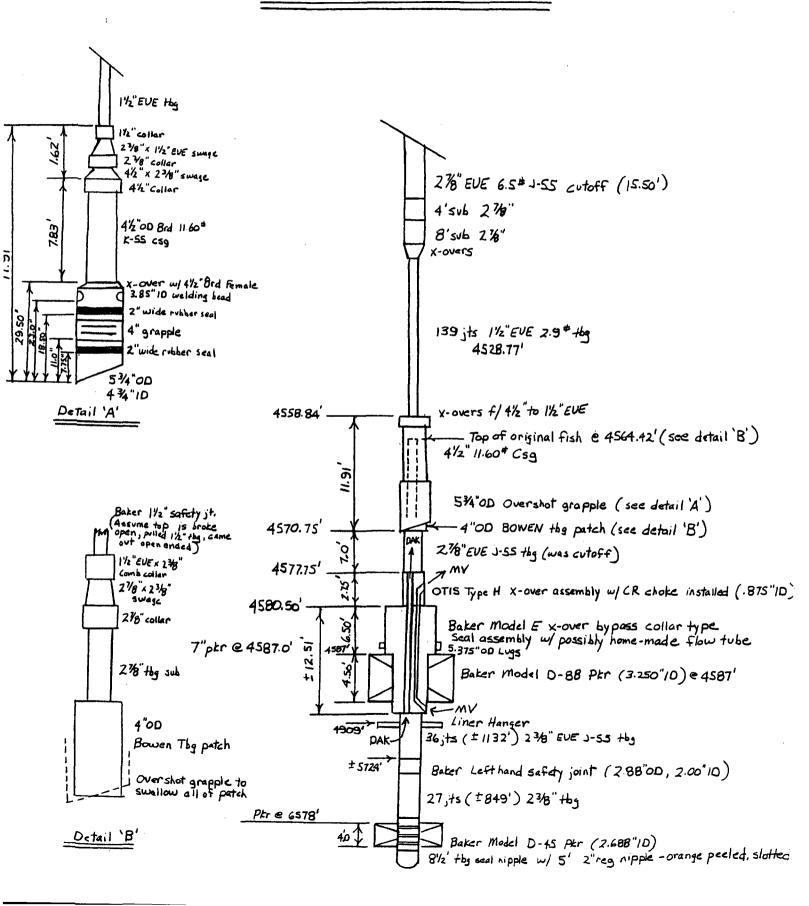
CONDUCTOR TRANSPORTER GET GREATOR			SEE INS	TRUCTIONS	FOR C	DMPLETING 1	THIS PORM (ON THE REV	ERSE SIDE
					· · · · ·	100			
0					Leage				Well No.
Operator	ውክ ለተ	TTEA T	AAC T	NYC		THERN U	NTON		1
CONSOLIDAT					<u> </u>	nge	County		
- 4	Section		Township				, -	NAUL N	
M Actual Footage L		9	31 N	ORTH		2 WEST	100	11 00301	
_			G A11000			. .	fa.a. f	WEST	- line
) feet fre		SOUTH	line and	A STATE OF THE PARTY OF THE PAR	290	teet tram the	W.E.21	
Ground Level Ele	v. Pr	oducing F	Offiscion VAA	. /	Pool	WDK/	Plane	441	Dedicated Acreage:
5901		<u></u>	K+M	V	DAS	INDE/	DINNES	MA	/ Acres
ubo bas the ri another. (65-	gbt to dri -3-29 (e) -5 questic NO	ll into and NMSA 19 to one is "	to produce 35 Camp.) 'no," have t answer is '	from any poo	l and to of all th of Cons	appropriate ti e owners bees olidation	consolidate	d by communi	("Ouner" means the personself or for bimself and tization agreement or other-
	· · · · · · · · · · · · · · · · · · ·			- ,					
						<u> </u>			**************************************
			SECTI	ON B					CERTIFICATION
f	-							7 I	
					monya wasan wagili			in SECTI- plete to the belief.	certify that the information ON A above is true and com- he best of my knowledge and
					<u> </u>			Position Company Date	
-1090'-	@-060l					(980,	790	shown on the plotted from surveys me supervision and correct and belief. Date Surve 23 Registered and or Land the Land Land Land Land Land Land Land Land	•

Southern Union # 1 Fixed Percentage Allocation Formula

Cumulative Production as of May 1997

	Oil (Barrels)	<u>%</u>	Gas (MCF)	<u>%</u>
Dakota Formation	23751	73.2%	2814117	79.3%
Mesaverde Formation	8689	26.8%	733329	20.7%
TOTAL	32440	100.0%	3547446	100.0%

Southern Union 1-19 6-7-85



MIDLAND, TEXAS / FARMINGTON, NEW MEXICO GRAND JUNCTION, COLORADO

P. O. Box 5278

Midland, Texas 79704-5278 (915) 694-0477

Midland Fax (915) 694-7602 Farmington Fax (505) 325-1148 Grand Junction Fax (970) 241-7634

June 20, 1997

Chateau Oil & Gas, Inc. 5802 Highway 64 Farmington, NM 87401

Attn: Mr. Jerry Nelson

Subject:

Bottom Hole Pressure Measurements

Williams No. 1

Dakota & Mesa Verde Formations San Juan County, New Mexico

File No. 2-30272-P

Dear Mr. Nelson:

Attached hereto are the results of bottomhole pressure measurements which were conducted on the above captioned well June 17, 1997.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/1w



Page ____2 of __2 File ____2-30272-P

MIDLAND, TEXAS

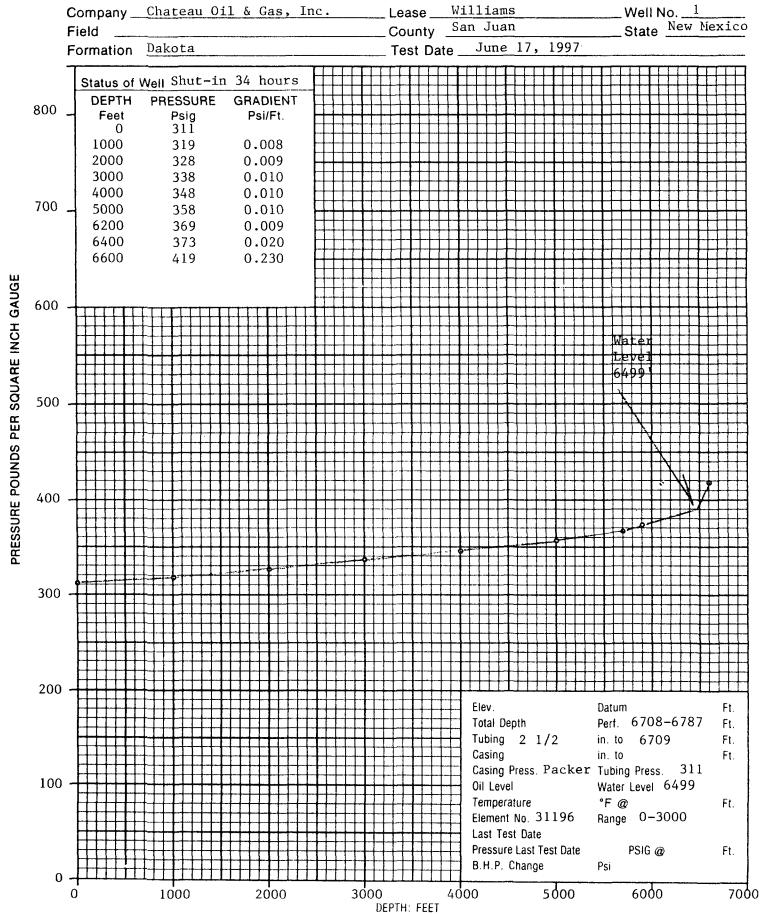
Casing Press. Oil Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date		Chateau O				lliams		
Status of Well Shut-4n 35 hours DEPTH PRESSURE GRADIENT Feet Paight Pa		M W					State New Me	xi.
DO - Feet Paig Pai/Ft. Paig Pai/Ft. O 0 257 1000 266 0.009 2000 274 0.008 3000 283 0.009 4500 301 0.020 DO - 4100 294 0.010 4300 297 0.015 0.00 0.000 DO - 4100 0.000 DO -	Formation	Mesa Ver	ae		_ Test Date	June 17, 1997		
DO - Feet Paig Pai/Ft. Paig Pai/Ft. O 0 257 1000 266 0.009 2000 274 0.008 3000 283 0.009 4500 301 0.020 DO - 4100 294 0.010 4300 297 0.015 0.00 0.000 DO - 4100 0.000 DO -	Status of	Well Shut-	in 35 hours					$\exists \exists$
Peet								Π
0 257 1000 266 0.009 2000 274 0.008 3000 283 0.009 4100 294 0.010 4300 297 0.015 4500 301 0.020								\blacksquare
1000 266 0.009 274 0.008 3000 283 0.009 4100 294 0.010 4300 297 0.015 10 10 10 10 10 10 10 10 10 10 10 10 10								#
2000 274 0.008 3000 283 0.009 4100 294 0.010 4300 297 0.015 4500 301 0.020	1							\pm
3000 283 0.009 4300 294 0.010 4300 297 0.015 4500 301 0.020 100 - 4100 294 0.010 4500 301 0.020 100 - 4100 294 0.015 4500 294 0.015 4500 294						┡╃╃╃		┽┽
Elev. Datum Total Deptn Perf 4562–4672 Tubing 1 1/4 in. to 4492 Tubing	2000	274	0.008					\Box
Elev. Datum Total Deptn Perf 4562–4672 Tubing 1 1/4 in. to 4492 Tubing	3000	283	0.009					\Box
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 I	0 + 4100	294	0.010					
Elev. Datum Total Depth Perf 4562–4672 Tubing 1 1/4 in. to 4492 In	4300	297	0.015		+++++			+
0	4500	301	0.020					\Box
Datum Perf. 4562-4672 In to 4492 I	Į		-					
0	İ			┝ ┼┼┼┼	+++++			+
0	_							
Eiev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 Casing in. to 4492 in. to 4502 in. to	٠ ١							
Elev. Datum Total Depth Tubing 1 1/4 Casing Casing Press. Tubing 1 1/4 Casing in. to Casing Press. Tubing Press. 257 Oil Level Temperature								\pm
Elev. Datum Total Depth Tubing 1 1/4 Casing Casing Press. Tubing 1 1/4 Casing in. to Casing Press. Tubing Press. 257 Uil Level Temperature	 	-+		+++++		┠┤┤┤ ┤ ╏ ┤┤┼┼┼		+
Elev. Datum Total Depth Tubing 1 1/4 Casing Casing Press. Tubing 1 1/4 Casing in. to Casing Press. Tubing Press. 257 Uil Level Temperature								\perp
Elev. Datum Total Depth Tubing 1 1/4 Casing Casing Press. Tubing 1 1/4 Casing in. to Casing Press. Tubing Press. 257 Uil Level Temperature								
Elev. Datum Total Depth Tubing 1 1/4 Casing Casing Press. Tubing 1 1/4 Casing in. to Casing Press. Tubing Press. 257 Uil Level Temperature	_ᠬ ᆘ ᆉᆉᆉ	-┼┼┼┠┼┼┼	╂┼┼┼┼┠ ┽┼┼┼╂	╎╎╎┤╏ ┤┤				+
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Pressu	° 111111							
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Pressu								
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Psig @ B.H.P. Change Psi				+++++		$\blacksquare + \blacksquare +$		+
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Psig @ B.H.P. Change Psi								
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Psig @ B.H.P. Change Psi								
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Last Test Date Pressure Last Test Date Psig @ B.H.P. Change Psi	o 							
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date			+++++++	++++++	┊ ┤ ┼┼┼┼┼	$lackbox[0.1em]{ }$		+
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date				+++++				\Box
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date								\perp
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date								+
Elev. Datum Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date	┠╂╂┼┼╂╂	┌═╂═╂╌╂╼╂═╂═╂═╂		╂┼┼┼┼				+
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Last Test Date Pressure Last Test Date	0							\perp
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date								\pm
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date		1						+
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date	F FFF++ +	╒╅┼┼╂┼┼┼	╂┼┼┼┼╂┼┼┼┼	├ ┼┼┼	+++++			H
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date								
Elev. Datum Total Depth Perf. 4562-4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date								
Total Depth Perf. 4562–4672 Tubing 1 1/4 in. to 4492 Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0–3000 Last Test Date Pressure Last Test Date						 		Ц
Tubing 1 1/4 in. to 4492 in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date		┟╂╂╂╂╁╁┼	╂┼┼┼╂╂┼┼┼┼	++++++				F
Casing in. to Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date						1		F
Casing Press. Tubing Press. 257 Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date								F
Oil Level Water Level Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date								F
Temperature °F @ Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date	<u> </u>							
Element No. 31196 Range 0-3000 Last Test Date Pressure Last Test Date	۲ <u>- ۲۲۲</u>		*			4		
Last Test Date Pressure Last Test Date			*			1		F
Pressure Last Test Date PSIG @ B.H.P. Change Psi	<u> </u>	-++++++++	╂┼┼┼┼╂┼┼┼┼	$+++\overline{+}$		1	Range 0-3000	
B.H.P. Change Psi			1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +			4	BO. C	
0 +			┇┆┆┆ ┇			T .		F
			<u> </u>	<u> </u>	╌╁╌╂╌╂╌╂╌╂╌╂	B.H.P. Change	Psi	
0 1000 2000 3000 4000 5000 6000	•	1000	2000	3000	/.00	1000	(000	

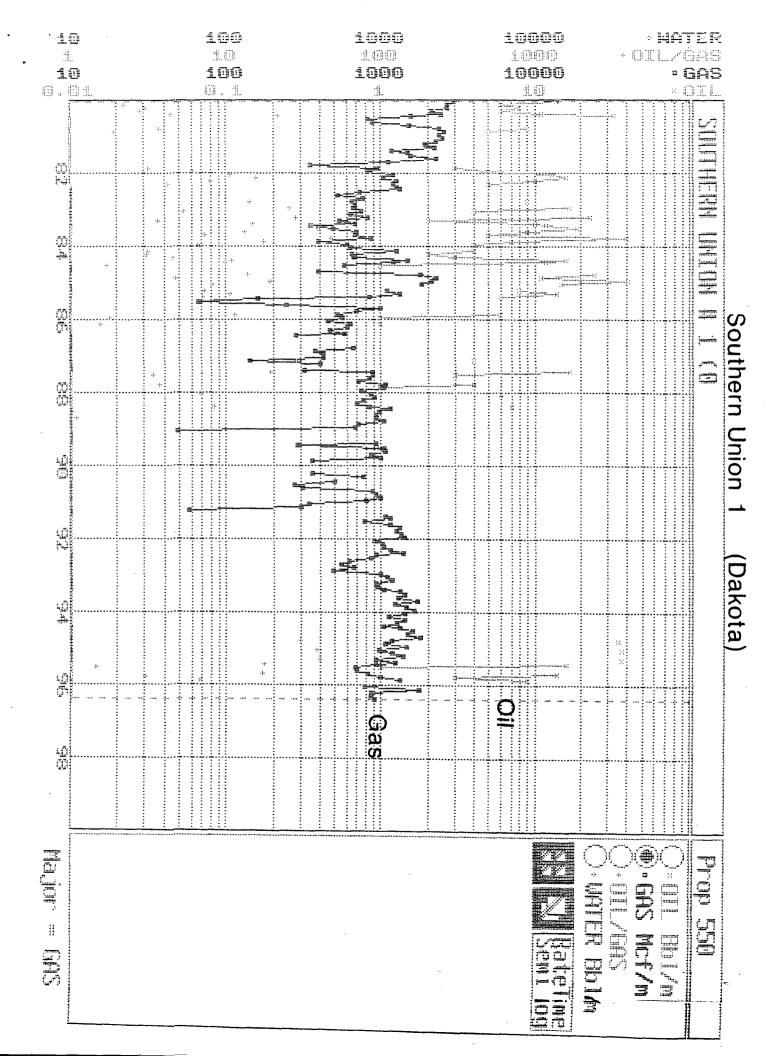
PRESSURE POUNDS PER SQUARE INCH GAUGE

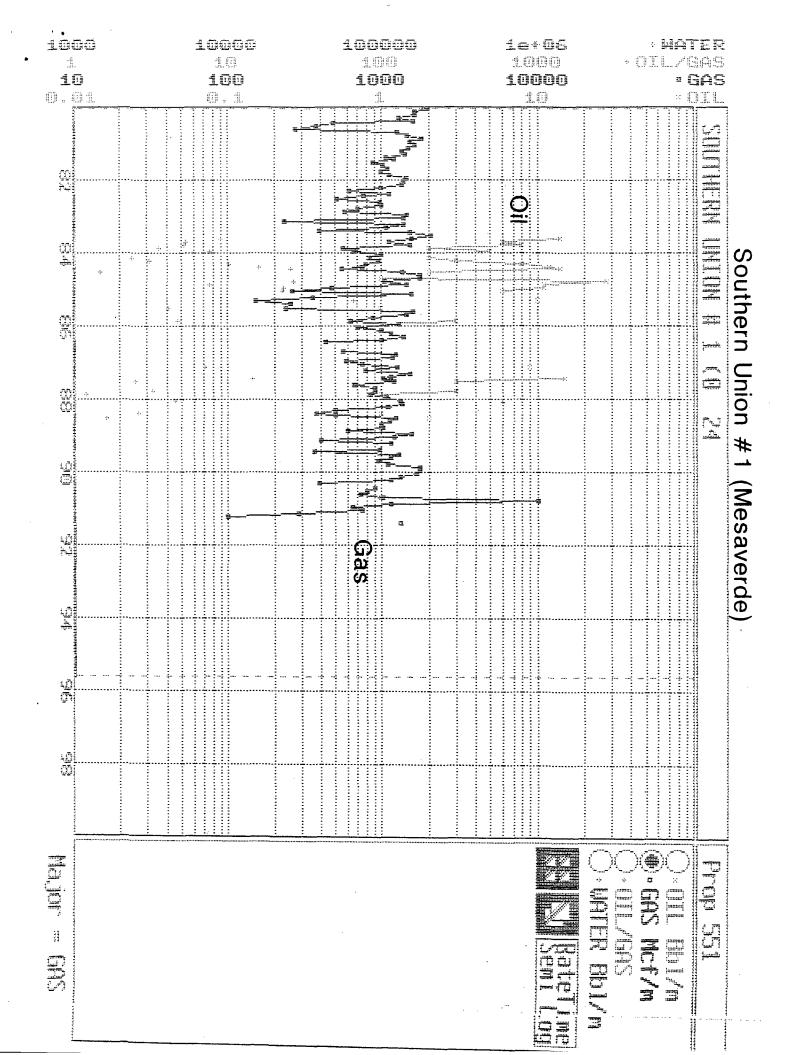


Page ____1 of __2 ____ File ____2-30272-P

MIDLAND, TEXAS







WAIVER OF OBJECTION AND CONSENT TO COMMINGLE THE DUAL COMPLETION

For Chateau Oil and Gas, Inc.

The undersigned, as an offset operator/lease holder of a lease near:

Southern Union #1, DK/MV Dual 1090' FSL & 1090' FWL Sec 19, T31N, R12W San Juan, New Mexico

Does hereby acknowledge receipt of the letter requesting approval of commingling of the above captioned well.

The undersigned hereby waives any objection to this application and voluntarily consents to the commingling of the above captioned well.

SIGNED	: Kut F. Schweiger
NAME:_	Kurt F. Schweigert
TITLE:_	Senior Landman
FIRM:	Hugoton Energy Corporation
DATE:	July 10, 1997

Please find enclosed self addressed envelopes. Mail one copy to William J. LeMay New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6429 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225

UNICHEM INTERNATIONAL

1215 Basin Road

P.O. Box 421

FARMINGTON, N.M. 87401

COMPANY: COLUMBUS ENERGY

4-9-86 DATE:

FIELD, LEASE AND WELL: 50%CANDADO 1E MESA VERDE/50%CANDADO 1E DAKOTA

SAMPLING POINT: WELLHEAD

DATE SAMPLED: 3-27-86

SPECIFIC GRAVITY: 1.009

TOTAL DISSOLVED SOLIDS: 14,764

 $p_{H} = 7.495$

		ME/L	MG/L
CATIONS	•	-	•
CALCIUM	(CA)+2	3.6	72.1
MAGNESIUM	(MG)+2	3.4	41.4
SODIUM	(NA), CALC.	233.0	. 5367.0
ANIONS	•		· ·
BICARBONATE	(C)3)-1	17.2	1049.0
CARBONATE	(co3)~2		
HYDROXIDE	(OH)-1	·	
SULFATE	(804)-2	19.2	925.0
CHLORIDES	(CL)-1	204.0	7300.0
DISSOLVED GAS	SES		
CARBON DIOXIDE	(CO2)		
HYDROGEN SULFIDE	(H2S)		
OXYGEN	(02)		

(FE) IRON 48.0 BARIUM (BA)+20.12 8.7

MANGANESE (MN) IONIC STRENGTH 0.258

SCALING INDEX TEMP.

86°F 30°C 120°F 48.8°C CARBONATE INDEX 0.115 0.517 CALCIUM CARBONATE SCALING LIKELY LIKELY

SULFATE INDEX CALCIUM SULFATE SCALING -36.0-36.0UNLIKELY UNLIKELY

UNICHEMINTERNATIONAL

1215 Basin Road

P.O. Box 421

LIKELY

-46.0

UNLIKELY

FARMINGTON, N.M. 87401

COMPANY: COLUMBUS ENERGY

DATE:

3

4-9-86

FIELD, LEASE AND WELL: CANDADO 1E DAKOTA

SAMPLING POINT: WELLHEAD

DATE SAMPLED: 3-27-86

SPECIFIC GRAVITY: 1.009

TOTAL DISSOLVED SOLIDS: 15,092

PH = 7.95

		ME/L	MG/L
CATIONS		•	
CALCIUM	(CA)+2	1.6	32.0
MAGNESIUM	(MG)+2	2.4	29.1
SODIUM	(NA), CALC.	245.0	5632.0
ANIONS	,		
BICARBONATE	(c)3)-1	21.0	1281.0
CARBONATE	(co3)-2		
HYDROXIDE	(OH)-1		
SULFATE	(so4)-2	0	O
CHLORIDES	(CL)-1	228.0	8100.0
DISSOLVED	CASES		

DISSOLVED GAS	63		*
CARBON DIOXIDE	(CO2)		
HYDROGEN SULFIDE	(H2S)		
OXYGEN	(02)		
IRON	(FE)		35.1
BARIUM	(BA)+2	0.25	17.3
MANGANESE IONIC STRENGTH = 0	(MN) 0.255		
SC	ALING INDEX	TEMP.	. 0 0
CARBONATE INDEX		86°F 30°C 0.310	120°F 48.8°C 0.711

CALCIUM CARBONATE SCALING LIKELY SULFATE INDEX CALCIUM SULFATE SCALING -45.0 UNLIKELY

UNICHEM INTERNATIONAL

1215 Basin Road

P.O. Box 421

FARMINGTON, N.M. 87401

COMPANY:

COLUMBUS ENERGY

DATE:

4-9-86

FIELD, LEASE AND WELL: CANDADO 1E MESA VERDE

SAMPLING POINT: WELLHEAD

DATE SAMPLED:

3-27-86

SPECIFIC GRAVITY: 1.009

TOTAL DISSOLVED SOLIDS:

PH = 7.04

•		ME/L	MG/L
CATIONS	·	•	
CALCIUM	(CA)+2	5.6	112.0
MAGNESIUM	(MG)+2	4.4	53.4
SODIUM	(NA), CALC.	221.0	5101.0
ANIONS	•		
BICARBONATE	(c)3)-1	13.4	817.0
CARBONATE	(CO3)~2		
HYDROXIDE	(он)-1		
SULFATE	(804)~2	38.5	1850.0
CHLORIDES	(CL)-1	180.0	6400.0

DISSOLVED CASES

CARBON DIOXIDE	(CO2)	
HYDROGEN SULFIDE	(H2S)	
OXYGEN	(02)	
IRON	(FE)	61.0
BARIUM	(BA)+2	0.2
MANGANESE	(MN)	
IOMIC CTREMCTH -	2 26	

IONIC STRENGTH = 0.26 SCALING INDEX 86° F 30° C 120°F 48.8°C CARBONATE INDEX 0.142 -0.25CALCIUM CARBONATE SCALING LIKELY UNLIKELY SULFATE INDEX -28.0 -27.0CALCIUM SULFATE SCALING UNLIKELY UNLIKELY

Southern Union 1 Offset Operators

Dugan Production Corp. P.O. Box 420

Farmington, N.M. 87499-0420

Sec 29-31N-13W Dakota/Mesaverde

Great Western Drilling

P.O. Box 1659

Midland, Tx. 79702

Sec 17-31N-12W Dakota

Marathon Oil Co.

P.O. Box 3128

Houston, Tx 77253

Sec 20-31N-12W Mesaverde Sec 18-31N-12W Mesaverde

Bruce Anderson

1000 Louisianna St.

Suite 900

Houston, Tx 77002

Sec 29-31N-13W Dakota

Burlington Resources

P.O. Box 840656

Dallas, Tx 75284-0656

Sec 29-31N-12W Dakota/Mesaverde Sec 20-31N-12W Dakota/Mesaverde

Sec 17-31N-12W Mesaverde

Amoco Production

P.O. Box 841521

Dallas, Tx 75284-1868

Sec 17-31N-12W Dakota/Mesaverde

Sec 29-31N-12W Dakota/Mesaverde

Chateau Oil and Gas, Inc.

5950 Berkshire Lane

Suite 275

Dallas, Tx 75225

Sec 13-31N-13W Dakota/Mesaverde

Sec 24-31N-13W Dakota/Mesaverde

Sec 30-31N-12W Dakota/Mesaverde

Sec 20-31N-12W Dakota

Sec 18-31N-12W Dakota/Mesaverde

Robert R. Click

Roddy Production

8340 Meadow Road

Suite 230

Dallas, Tx 75231

Sec 30-31N-12W Dakota/Mesaverde

Hugoton Energy Corp.

Mr. Randy Click

301 N. Main, Suite 1900

Sec 30-31N-12W Mesaverde

June 30, 1997

Dugan Production Corp. P.O. Box 420 Farmington, NM 87499-0420

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

June 30, 1997

Great Western Drilling P.O. Box 1659 Midland, Tx 79702

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

June 30, 1997

Marathon Oil Co. P.O. Box 3128 Houston, Tx 77253

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

June 30, 1997

Bruce Anderson 1000 Louisiana Street Suite 900 Houston, Tx 77002

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

cc: N.M. Conservation Division, Santa Fe

N.M. Conservation Division, Aztec

BLM, Farmington

June 30, 1997

Burlington Resources P.O. Box 840656 Dallas, Tx 75284-0656

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

June 30, 1997

Amoco Production P.O. Box 841521 Dailas, Tx 75284-1868

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

cc: N.M. Conservation Division, Santa Fe N.M. Conservation Division, Aztec

BLM, Farmington

June 30, 1997

Robert R. Click Roddy Production 8340 Meadow Road, Suite 230 Dallas, Texas 75231

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

June 30, 1997

Hugoton Energy Corporation Mr. Randy Click 301 N. Main, Suite 1900 Wichita, Ks 67202

Re: Waiver for administrative Approval of Downhole commingling for Chateau Oil and Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative approval to commingle production from the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for downhole commingling in the area. We are therefore notifying your office of our intent to commingle the same zones in the referenced well, and would like you to sign and return one copy of the Waiver of Objection in each of the self addressed envelopes.

Please mail the waivers to William J. LeMay, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249 and John V. Peters, Chateau Oil and Gas, Inc., 5950 Berkshire Lane, Suite 275, Dallas, Texas 75225.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

cc: N.M. Conservation Division, Santa Fe N.M. Conservation Division, Aztec

BLM, Farmington

Southern Union 1

Working Interest Owners - Dakota/Mesaverde

Chateau Oil and Gas, Inc. 5950 Berkshire Lane Suite 275
Dallas, Tx 75225

Hugoton Energy Corp. Mr. Randy Click 301 N. Main Suite 1900 Wichita, Ks 67202

Geodyne Resources, Inc. c/o Samson Production Serv. Co. P.O. Box 94339 Tulsa, Ok 74194

Arthur Alsberg 3816 Longridge Sherman Oaks, Ca 91423

Sanford Becker 27 Chester Drive Rye, N.Y. 10580

Marjorie A. Bachman 20 Old Mamaroneck Road White Plains, N.Y. 10605

Addie Guttag 575 Park Avenue, Apt 1603 New York, N.Y. 10021

Susan K. Baker 40 East 88th Street New York, N.Y. 10128

John V. Guttag 273 Emerson Road Lexington, Ma. 02713 Richard S. Becker 44 Graham Road Scarsdale, N.Y. 10583

Thomas Kaufman 39 Princeton Ave. Princeton, N.J. 08540

Chateau Energy, Inc. 5950 Berkshire Lane Suite 275
Dallas, Tx. 75225

Royalty Owners - Dakota/Mesaverde

Minerals Management Service Royalty Management Program P.O. Box 5810 Denver, Co. 80217-5810

Hugoton Energy Corp. 301 N. Main Wichita, Ks 67202

Burke Healey Trustee of the Burke Healey Trust DTD 1/2/85 P.O. Box 100 Davis, Ok 30300

Barren Healey Trustee for the Barren Healey 1988 Trust U/A/D 4-25-88 P.O. Box 888 Davis, Ok 30300

Jane K. Beard 4104 Lovers Lane Dallas, Tx 75225

W. Thomas Beard III P.O. Box 668 Alpine, Texas 79830 Herbert Kokernot Lea 434 Chemin St. Andre' 13120 Gardanne France

Michael Scott Lea 4251 So. Allison Street Lakewood, Co. 80235

Elizabeth Beard Tanksley P.O. Box 628 Alpine, Tx. 79831

Miriam Bartlett Trustee of the Miriam L. Bartlett Trust 156 Sandpiper Ave. Royal Palm Beach, Fl 33411

Trueblood Resources, Inc. 1720 South Belaire, Suite 908 Denver, Co. 80222

Burlington Resources Oil & Gas P.O. Box 840656 Dallas, Tx 75284-0656

June 30,1997

Working Interest and Royalty Owners

Re: Administrative Approval of Downhole Commingling for Chateau Oil & Gas, Inc. Southern Union 1, Basin Dakota & Blanco Mesaverde Dual, 1090' FSL & 1090' FWL, Sec 19, T31N, R12W San Juan County, New Mexico

Gentlemen:

Chateau Oil and Gas, Inc. is applying to the New Mexico Oil Conservation Division, as outlined in the NMOCD Rule 303C, for administrative commingle of the Dakota and Mesaverde zones in the subject well. These zones have already been approved by the Commission for the downhole commingling in the area. We are therefore notifying you of our intent to commingle the same zones in the referenced well. Enclosed for your information is a copy of the Application for Downhole Commingling Form C-107-A. Shown on the Form is the Fixed Percentage Allocation Formula -% for each zone which has been calculated based on the historical cumulative production.

If you have any objection to this application, you may contact John V. Peters at Chateau Oil and Gas, Inc., 5950 Berkshire lane, Suite 275, Dallas, Texas 75225. You may also contact Mr. William J. LeMay at the New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505-6249.

If you have any questions concerning this request, please contact John V. Peters at 214-891-3350.

Sincerely,

CHATEAU OIL AND GAS, INC.

John V. Peters

Vice President - Operations

JVP/jw

Enclosures

cc: N.M. Conservation Division, Santa Fe N. M. Conservation Division, Aztec

BLM, Farmington