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			ABOVE THIS LINE FOR DIVISIO	NUSE ONLY						
		NEW MEXIC	O OIL CONSER - Engineering Bure		DIVISION	133				
	ADMINISTRATIVE APPLICATION COVERSHEET									
	THIS COVERSHE	ET IS MANDATORY FOR ALL ADI	MINISTRATIVE APPLICATION	IS FOR EXCEPTION	S TO DIVISION RULES A	ND REGULATIONS				
Applic	ation Acronyms:									
	[PC-Po	nhole Commingling] ool Commingling] [Ol [WFX-Waterflood Expa	I Drilling] [SD-Sir [CTB-Lease Comm LS - Off-Lease Stora ansion] [PMX-Pres Disposal] [IPI-Inio	nuitaneous D ingling] [Pl age] [OLM- ssure Maintes action Pressi	edication] LC-Pool/Lease Co Off-Lease Measu nance Expansion ure Ingrease]	rement]] 				
[1]	TYPE OF A [A]	PPLICATION - Che Location - Spacing	Unit - Directional	Drilling	A] OC	T 2 I 1997				
	Check [B]	Commingling - Sto	nd [C] rage - Measureme		OLS OI	1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	[C]	Injection - Disposa	l - Pressure Increa	se - Enhance	ed Oil Recovery EOR P					
[2]	NOTIFICAT [A]	FION REQUIRED 7 Working, Royal				Not Apply				
	[B]	Contract Operators	s, Leaseholders or	Surface Ow	ner					
	[C]	Application is O	one Which Require	es Published	Legal Notice					
	[D]	Notification and U.S. Bureau of Land	/or Concurrent Ap Management - Commissione	proval by B or of Public Lands, S	SLM or SLO State Land Office					
	[E]	Given Service For all of the abo	ove, Proof of Noti	fication or F	Publication is At	ttached, and/or,				
	ព្រា	G Waivers are Atta	ached							

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

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.

Peggy Bradfield Print or Type Name Signature

Regulatory/Compliance Administrator

10-20-97 Date



SAN JUAN DIVISION

October 16, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re: Feuille A #5 1750'FSL, 1755'FEL, Section 4, T-29-N, R-10-W 30-045-08693

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Mesa Verde and Dakota in the subject well.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Production curves for Mesa Verde and Dakota;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Working, overriding and royalty interests are identical in the commingled zones.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely, had hurd Reggy Bradfield

Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered OCD - Aztec District Office Offset operators listed **DISTRICT I**

P.O. Box 1980, Hobbs, NM 88241-1980 **DISTRICT II** 811 South First St., Artesia, NM 88210-2835 DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

Form C-107-A New 3-12-96 **APPROVAL PROCESS :**

EXISTING WELLBORE

_No _No No

X Administrative ____Hearing

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

APPLICATION FOR DOWNHOLE COMMINGLING

X YES ___ NO

BURLINGTON RESOURCES OIL & GAS COMPANY	PO Bo	x 4289, Farmington, NM 87499	
Operator		Address	
Feuille A	5	J, Sec. 04, T29N, R10W	San Juan
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County

OGRID NO. __14538_____ Property Code _7015

API NO. 30-045-0869300__Federal ___X_

Spacing Unit Lease Types: (check 1 or more) _, State ___ _(and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower
1. Pool Name and Pool Code	Mesa Verde - 72319		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	Supplied Upon Completion (approximately 3900' - 4450')		6738' - 6876'
3. Type of production (Oll or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 601 psia @ 4175' based on offset Grenier B No. 4	а.	a. 613 Psia @ 6807'
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1159 psia @ 4175' based on offset Grenier B No. 4	b.	b. 2677 Psia @ 6807
6. Oil Gravity ([°] API) or Gas BTU Content	1205 BTU		1135 BTU
7. Producing or Shut-In?	Not Yet Completed		Producing
Production Marginal? (yes or no)	Unknown Until Completion		Yes
* If Shut-In 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 data and oil/gas/water water of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 9/10/97 Rates: 23 MCFD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: will be supplied upon completion	Oil: Gas:	Oil: Gas: will be supplied upon completion

9. If allocation formula is based upon something other than current or past produich, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. _X_Yes ____ _Yes ____ _X_Yes ____

- 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?
- Will cross-flow occur? ____ Yes _X_ 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) 11. Will cross-flow occur?

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)

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). ___

- 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 Zein I. Midliff _TITLES. Operations Eng. _DATE ____ 10-15-97_ TELEPHONE NO. (505___) 326-9700_ TYPE OR PRINT NAME _Kevin L. Midkiff_



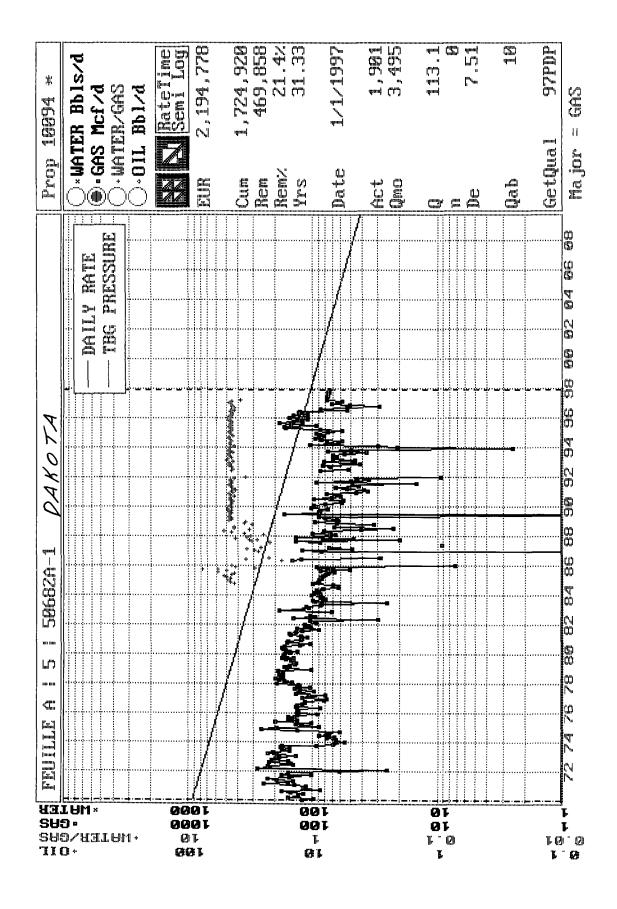


NEW MEXICO DIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

1

CENARD OIL & GAS CO. NYE Juilly 5 1 Letter Section Township Range County J 4 29 North 10 West San Juan Ind Footage Location of Well: 1755 feet from the SOUth line and 1755 1750 feet from the SOUth line and 1755 feet from the east line 10 Level Elev. Producing Formation Pool Dedicated Acreage: 292.014 A 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. A A			All distances must l		er boundaries o	of the Section.		
Letter Section Township Manye County J h 29 North 10 West San Juan Infronter Lostene fwelt Ince Ince Ince If you Bers Producing promition Post Ince Ince Start Jave Bers Producing promition Post Ince Ince 1. Outline the acreage dedicated to the subject well by colored pencil or harchure marks on the plat below. Ince Ince 1. In more than one lease of different ownership is dedicated to the well, have the interests of all owners bacen consolidation OCT 1 7 1969 I anye than one lease of different ownership is dedicated to the well, have actually been consolidated (by communitization, unitization, force-pooling, etc? OCT 1 7 1969 I anyer is "no," list the owners and tract descriptions which have actually been consolidated (by communitization, unitization or this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, subject well we constare to constare the bar information brind haven h to the or compare to the constare the start information brind haven h to the or compare to compare to the start information brind haven h to the or compare to compare to the start information brind haven h to the or compare to compare to compare the start of compare to the start of cother thavent haven to the or the well becompare to the start of	perater			Lease		4 '00		Well No.
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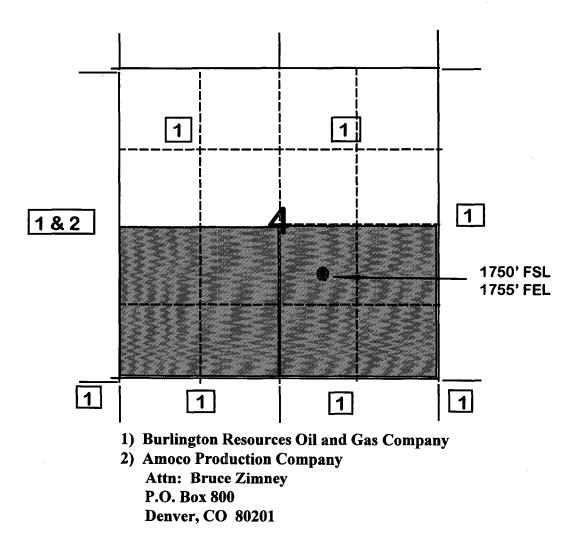
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BURLINGTON RESOURCES OIL AND GAS COMPANY

Feuille A #5 OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 29 North, Range 10 West



·							
Property Property Na	ime: Tue Sep	A 5	50682A-1	OAKOTA			
<u>DATE</u>	CUM_GAS Mcf	M_SIW <u>HP</u> Psi					
11/30/62	0	2169.0	Initial Piess	ure			
12/13/62		2168.0					
04/10/63	29000	1800.0					
07/16/64	195000	1301.0					
02/01/65	253000	1279.0					
07/22/66	423000	1173.0					
07/25/67	521000	1061.0					
08/13/68	611000	991.0					
12/16/70	750377	880.0					
05/27/71	777400	861.0					
09/18/72	857928	766.0					
02/11/74	936399	694.0					
08/18/75	1003140	620.0					
06/20/77	1082272	560.0					
06/18/79	1197055	474.0					
08/05/81	1313875	434.0					
10/11/83	1387019	584.0					
06/03/85	1439077	611.0					
04/09/90	1551274	603.0					
04/15/93	1606819	640.0					_ / _
7/97	1739567	515	Current pres.	sure from	Reessane	vs. Cum. Gas	Plot

Property I Property Nam	e: Tue Sep D: 11258	B 4	25669-1	OFFSET MESA VERDE PRO D UCER
<u>DATE</u>	<u>CUM_GAS M</u> cf			
04/17/73 09/26/73 08/02/74	0 22908 67145	693.0	- Initial	Pressure

•

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7/97	536551	537	- Current Pressure based
05/31/93	447803	596.0	
11/12/91	425898	650.0	
05/10/89	389764	622.0	
03/12/86	326928	763.0	
04/04/84	301639	701.0	
06/08/82	274339	605.0	
08/16/80	228325	582.0	
10/03/78	181813	691.0	
08/02/76	129417	672.0	
08/02/75	103176	568.0	
00,02,12	• • •		

Current Pressure based on SIWHP VS. Cum. Gas Plot

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Feuille A No. 5 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

• • • •

Mesa Verde	Pictured Cliffs
<u>MV - Current</u>	DK-Current
GAS GRAVITY0.712COND. OR MISC. (C/M)M%N20.87%CO20.74%H2S0DIAMETER (IN)4DEPTH (FT)4175SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)123FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)537BOTTOMHOLE PRESSURE (PSIA)601.1The Mesa Verde Pressures are from the Grenier B No. 4	GAS GRAVITY0.692COND. OR MISC. (C/M)M%N20.24%CO21.88%H2S0DIAMETER (IN)4DEPTH (FT)6807SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)138FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)515BOTTOMHOLE PRESSURE (PSIA)612.8
which is an offset MV producer. <u>MV - Original</u>	<u>DK-Original</u>
GAS GRAVITY0.712COND. OR MISC. (C/M)M%N20.87%CO20.74%H2S0DIAMETER (IN)4DEPTH (FT)4175SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)123FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1158.8	GAS GRAVITY0.692COND. OR MISC. (C/M)M%N20.24%CO21.88%H2S0DIAMETER (IN)4DEPTH (FT)6807SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)138FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2169BOTTOMHOLE PRESSURE (PSIA)2677.2
The Mesa Verde Pressures are from the Grenier B No. 4 which is an offset MV producer.	

FARMINGTON	_	ANNUA	L PRODUCTION	I FOR 50682A		PHS020M1
FEUILLE A BASIN DAKOTA	5 (PRORATED	GAS) FIEL	DI	DAKOTA ZONE		
	UM ======	. ===	=== GAS CUM	======	==== WATEF	CUM =====
PC DATE	BBLS	PC	DATE	MCF	DATE	BBLS
02 6912	2742	01	6912	703618		
YEAR	OIL	OIL CUM	 GAS	GAS CUM	-=====================================	WATER CUM
1990		2745	26539	1567566	121	625
1991		2745	17401	1584967	78	703
1992		2745	12090	1597057	55	758
1993		2745	20343	1617400	94	852
1994		2745	27300	1644700	125	977
1995		2745	45862	1690562	210	1187
1996		2745	34358	1724920	156	1343
1997		2745	14647	1739567	69	1412

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE PF6 - RETURN TO WELL-INFO DISPLAY PF9 - ANNUAL INJECTION DISPLAY PF10 - HELP INFORMATION

- 00/00/00 00:00:00:0 D03 09/02/89

FARMINGTON1997 MONTHLY PRODUCTION FOR 50682APHS030M1FEUILLE A5									
BASIN DAKOTA (PRORATED GAS) FIELD DAKOTA ZONE									
			•						
DAYS ======	OIL ====== =======	===== GAS ============							
MOTS ON PC	PROD GRV PC	PROD ON BTU PRESS	WATER PROD C						
12F 31	01	1901 31 1136 15.025	9						
22F28	01	1770 28 1136 15.025	8						
32F31	01	1890 31 1136 15.025	9						
42F 30	01	2517 30 1134 15.025	12						
5 2 F 31	01	2306 31 1134 15.025	11						
62F27	01	2128 27 1134 15.025	10						
72F31	01	2135 31 1134 15.025	10						
8	01	2133 31 1131 13.023	ΞŪ						
9									
10									
11									
12									
			•						
	TO ANNUAL DISPLAY	PF3 – TRANSFER T							
PF10 - HELP IN	FORMATION	PF9 - DISPLAY MO	NTHLY INJECTION						

00/00/00 00:00:00:0 PRS 09/04/97

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FDG055M4 47	19	WELL PROI	OUCTION	8/8'S VOI	LUME	09/23/97	14:20:24
DP NO: 50682A FEUILLE A S DAKOTA			5			(YYMMDD FORMAT BY DATE: _	')
E DATE	HOURS	-OIL PROL)N-	-GAS I	PRODN-	-WATER PR	ODN-
L PRODUCED	ON	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)
09/10/97	24.0	0.00	0.00	23	184	0.00	0.00
09/09/97	24.0	0.00	0.00	14	161	0.00	0.00
09/08/97	24.0	0.00	0.00	19	147	0.00	0.00
09/07/97	24.0	0.00	0.00	15	128	0.00	0.00
09/06/97	24.0	0.00	0.00	21	113	0.00	0.00
09/05/97	24.0	0.00	0.00	16	92	0.00	0.00
09/04/97	24.0	0.00	0.00	16	76	0.00	0.00
09/03/97	24.0	0.00	0.00	16	60	0.00	0.00
09/02/97	24.0	0.00	0.00	26	44	0.00	0.00
09/01/97	24.0	0.00	0.00	18	18	0.00	0.00
08/31/97	24.0	0.00	0.00	13	861	0.00	0.00
ENTER I UND	ER SEL	FOR MAINTENANC	CE				
PF6=NRI P PF12=MAIN MENU ENTER=BACKWARDS				0=BROWSE	MENU	PF11=INQ/UPDA PF24=HELP	TE MENU

70 70 70 73333 7 7 7 7 8393 8393 8393 8393 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	81 27 - 481 27 - 481 15M 487 7	11/71 Hare 18 180 - 625 LEGEND LEGEND LEGEND
8/84 Grenier A 3M 98 - 424 12/70 98 - 424 Grenier A 3 Inactive 3/93 134] Cum 112 7/82 3067 76 - 694 5anchez 3A	3172 10/81 3172 10/81 Hare 15 Hare 15M Inactive 1992 69 - 487 Cum 98	[10] 9/70 Hare 14 39 - 998
10/80 10/80 Trieb Fed 2E Inactive 8/96 Cum 333 Cum 333	4/73 # 4/7 Grenier B4 198 w P 131 [4] Feuille A 5	୭
10/80 Bassett B 1 209 - 705 2/83 2/83 Bassett B 1M 2/83 2 - 487	7/81 Grenier B 4A 113 - 530	3/62 * 142 - 543
3/57 Stewart A Com A LS 2	AMOCO 8,62 Ludwick LS 13 71 - 1234 [5] BR 10/81 Grenier B 3E 181 - 981	8