	13/97	SUSPENSE 6/23/97 ENGINEER BS/DC LOGGED NN TYPE DHC									
1	ABOVE THIS LINE FOR DIVISION USE ONLY										
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -										
	ADMINISTRATIVE APPLICATION COVERSHEET										
		EET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS									
pnic	[PC-P	: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] whole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]									
!]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD									
	Check [B]	k One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM									
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery									
2]	NOTIFICA' [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners									
	[B]	Gamma Offset Operators, Leaseholders or Surface Owner									
	[C]	Application is One Which Requires Published Legal Notice									
	[D]	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]	U Waivers are Attached									

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

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

\bigcirc	Note: Statement must be comple	Note: Statement must be completed by an individual with supervisory capacity.				
eggy Bradfield	Sharpied	Regulatory/Compliance Administrator	6/2/4 5			
rint or Type Name	Signature	Title	Date			



SAN JUAN DIVISION SENT FEDERAL EXPRESS

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

Re: San Juan 28-5 Unit #72M 1590'FNL, 1140'FWL Section 35, T-28-N, R-5-W, Rio Arriba County, NM API #30-039-25621

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota in the subject well. This well is planned to be drilled and completed as a Mesa Verde/Dakota commingle in 1997.

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 curve for Dakota and expected production curve for the Mesa Verde;
- 4. Notification list of offset operators Burlington is the surrounding operator;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10695 dated November 12, 1996 attached.

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,

Shadpued

Peggy Bradfield Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered

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**

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

Form C-107-A New 3-12-96 **APPROVAL PROCESS :** _X_ Administrative ____Hearing **EXISTING WELLBORE** _YES _XNO

APPLICATION FOR DOWNHOLE COMMINGLING

PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil & Gas Company** Operato Address SAN JUAN 28-5 UNIT 72M E 35-28N-5W **Rio Arriba** Unit Ltr. - Sec - Twp - Rge Well No. 1.0380

County

Spacing Unit Lease Types: (check 1 or more) OGRID NO. <u>14538</u> Property Code __7460_____ API NO. 30-039-25621__Federal __X___ , State _____(and/or) Fee ____X_

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower-Zona
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
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	(Current) a. 587 psi (see attachment)	а.	a. 1190 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1342 psi (see attachment)	b.	b. 3324 psi (see attachment)
6. Oil Gravity ([°] API) or Gas BTU Content	BTU 1182		BTU 1051
7. Producing or Shut-In?	shut-in		shut-in
Production Marginal? (yes or no)	no		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: n/a Rates:	Date: Ratos:	Date: n/a Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
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

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. 9.

- 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? ___Yes __x__No ___Yes __x__No _x_Yes ___No
- 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. _x_ 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). ___R-10695

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 Sean Wooherton	EngineerDATE05/27/97
TYPE OR PRINT NAME Sean C. Woolverton TELEPHONE	NO. <u>(505)</u> <u>326-9700</u>

District I. PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artenia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

and the state of the

.

.

State of New Mexico Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

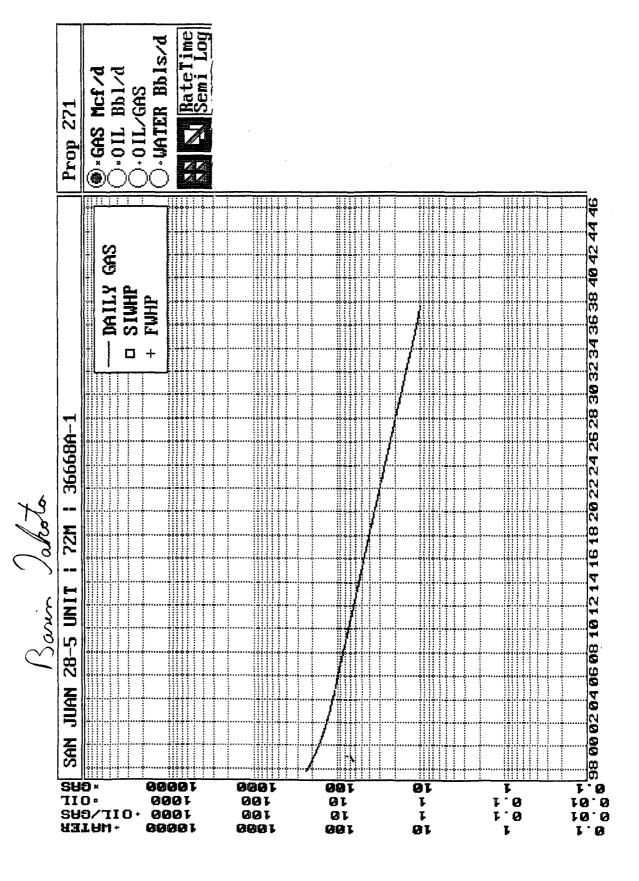
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

E ANN

Certify

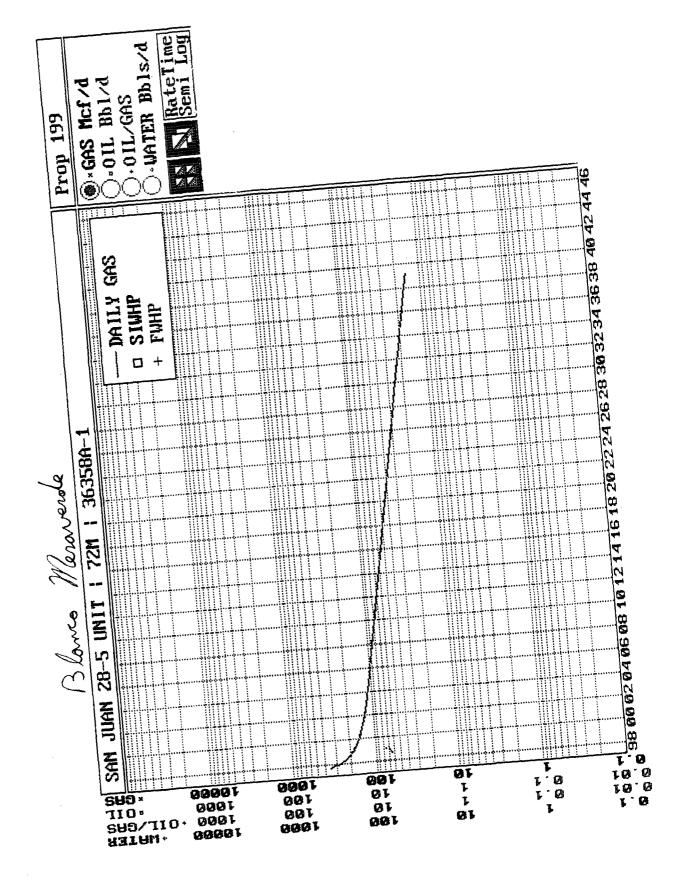
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT											
API Number				' Pool Cod	e		³ Pool Name				
* Property (<u> </u>	* Property Name San Juan 28-5 Unit					* Well Number 72M				
' OGRID I	No.		BURLI	NGTON	¹ Operato	ويستعدني والمستقرب والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعاد وال	·······	OMPANY			*Elevation 6644 '
					¹⁰ Surface	Location					
UL or lot no.	Section	1 1	Range	Lot Ida	Feet from the	North/South line	Fe	et from the	East/West		County
E	35	28-N	5-W		1590	North		1140	We	st	R.A.
			¹¹ Bott	om Hol	e Location	If Different F	rom	Surface			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Fe	et from the	East/West	lice	County
¹³ Dedicated Acr	L laint	or infill " Co		Code 14	Drder No.	1					1
" Demoniou ver	CS JUDS	01 101 1 CA	(asouceuvu		JIGET 119.						
NO ALLOV	VABLE					ION UNTIL AL				EN CO	NSOLIDATED
								¹⁷ OPEF	RATOR	CER	FIFICATION
											contained herein is
								true and com	plete to the D	est of my	knowledge and belief
				┯╎═╴		<u></u>]				
1	l I		590 [.]		SF	- 079522					
	1		, V								
	!			<u></u>	· <u> </u> -		르뷔	Signature			
I I	1		1140'	o ' !	i	l	H	Printed Nam)e		
ł	I I			1	1,	FEE	- 11	Title			
	i I			l l		1 1	1	4 6466			
(34)	+ I	1-		-=				Date			
Т I	1			1	T I	1		¹⁸ SURV	'EYOR	CERT	<i>TIFICATION</i>
1	1		FEE	, I I	1						n shown on this plat
1	!			- 1	<u> </u> 			or under my	supervision, a	ınd ihat i	al surveys made by me he same is true and
 				5F	9522	i 1		correct to the	• best of my b 10/2	elief. 25/96	
2	H I	1	4		3	2 1		Date of Surve			
~		·				- · ·			and a group	eleridiaria	and alter
l		<u> </u>		<u></u>	!	,		Signature and		-9	12
										f	



١.

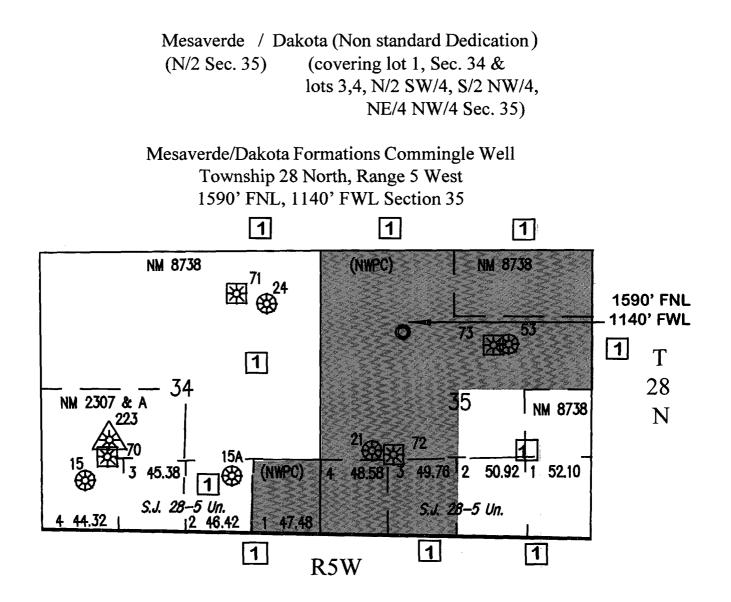
.



. . .

٩,

San Juan 28-5 Unit #72M Offset Operator / Owner Plat



1) Burlington Resources Oil and Gas Company

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED) OPRO08M1 S000 0008 CHROMATOGRAPH TEST MAIN SCREEN 15:01:23.1 05/18/97 ** DATA AT TEST PRESSURE UNLESS NOTED ** 72 REGION CD SAN JUAN 42 GAS METER - WELLHEAD SALES MP TYPE CODE 10 _____ ----- BTU/CF -------- (AT 14.73 PSIG) --SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS 19970301 SAMPLE DATE WET 1051.397 DRY 1070.000 SAMPLE LINE PRESSURE (PSIG) ______ SAMPLE LINE TEMPERATURE (DEG F) _____ SAMPLE LINE PRESSURE (PSIG) TEST DATE14.730TEST PRESSURE (PSIG)14.730TEST TEMPERATURE (DEG F)606060 ----- BTU/CF -----VAPOR FACTOR 038689 PETROLEUM LAND CORP TESTER SOURCE BA NUMBER TEST PURPOSE CODE _____ 03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST 11=PREV SCR12=MAIN MENU21=REFRESH SCR22=PREV MENU24=HELP 20=11112 PA1=TERMINATE LU #2 B MY JOB OPR008M2 S000 O008 CHROMATOGRAPH GAS SAMPLE DETAIL 15:01:28.7 05/18/97 GPM ** DATA AT 14.730 PSIG UNLESS NOTED ** MOL % (AT 14.73) MP NUMBER HYDROGEN 86561 EFFECTIVE DATE 19970301 HELIUM __0.25 NITROGEN OXYGEN _____ HYDROGEN SULFIDE -- GASOLINE CONTENT (GPM) --__1.57 CARBON DIOXIDE 26/70 GASOLINE _91.83 METHANE 100% PROPANE ___4.62 1.2359 ETHANE EXCESS BUTANES PROPANE 0.2811 1.02 TOTAL 0.0327 ISO-BUTANE N-BUTANE 0.0568 ___0.10 ISO-PENTANE 0.0366 ---- SPECIFIC GRAVITY -----N-PENTANE CALCULATED _0.6180 _____ MEASURED HEXANE 0.33 0.1440 HEXANE PLUS HEPTANE PLUS SULPHER GRAINS / 100 CU FT 100.00 1.7871 TOTALS 03=MAIN SCREEN 24=HELP PA1=TERMINATE B MY JOB NUM LU #2

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED) OPRO08M1 S001 0008 CHROMATOGRAPH TEST MAIN SCREEN 20:04:10.9 05/20/97 FUNCTION (A,C,D,I)i** DATA AT TEST PRESSURE UNLESSMP NUMBER86009SAN JUAN 28-5 UNIT24EFFECTIVE DATE1995110124 ** DATA AT TEST PRESSURE UNLESS NOTED ** REGION CD 42 SAN JUAN MP TYPE CODE 10 GAS METER - WELLHEAD SALES _____ SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----19951101 --- (AT 14.73 PSIG) --WET 1182.084 DRY 1203.000 SAMPLE DATE SAMPLE LINE TEMPERATURE (DEG F) ----- BTU/CF ------<u>14.730</u> WET <u>1182.084</u> DRY <u>1203.000</u>
 14.730
 WET _1182.084

 60
 VAPOR FACTO

 _6
 038689

 038689
 PETROLEUM LAND CORP
 TEST PRESSURE (PSIG) TEST TEMPERATURE (DEG F) VAPOR FACTOR TEST LIFE (MONTHS) TESTER SOURCE BA NUMBER TEST PURPOSE CODE ____ 03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST 11=PREV SCR12=MAIN MENU21=REFRESH SCR22=PREV MENU24=HELP 20=NEXT REC PA1=TERMINATE LU #3 B MY JOB OPR008M2 S001 O008 CHROMATOGRAPH GAS SAMPLE DETAIL 20:04:14.7 05/20/97 GPM ** DATA AT 14.730 PSIG UNLESS NOTED ** MOL % (AT 14.73) MP NUMBER HYDROGEN 86009 HELIUM EFFECTIVE DATE 19951101 0.32 NITROGEN OXYGEN HYDROGEN SULFIDE DTOXIDE 0.93 -- GASOLINE CONTENT (GPM) --26/70 GASOLINE 83.29 METHANE 100% PROPANE EXCESS BUTANES ETHANE PROPANE TOTAL ISO-BUTANE N-BUTANE ISO-PENTANE N-PENTANE ----- SPECIFIC GRAVITY -----CALCULATED 0.6940 HEXANE MEASURED 0.46 0.2007 HEXANE PLUS HEPTANE PLUS SULPHER GRAINS / 100 CU FT TOTALS 100.00 4.3894 24=HELP PA1=TERMINATE 03=MAIN SCREEN NUM LU #3 B MY JOB

San Juan 28-5 Unit #72M Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

•

.

.

.

Version 1.0 3/13/94

Mesaverde	Dakota			
<u>MV-Current</u>	<u>DK-Current</u>			
GAS GRAVITY0.694COND. OR MISC. (C/M)C%N20.32%CO20.93%H2S0.00DIAMETER (IN)2.375DEPTH (FT)5341SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)140FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)512BOTTOMHOLE PRESSURE (PSIA)586.6	GAS GRAVITY0.618COND. OR MISC. (C/M)C%N20.25%CO21.57%H2S0.00DIAMETER (IN)2.375DEPTH (FT)7831SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)162FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)992BOTTOMHOLE PRESSURE (PSIA)1190.2			
<u>MV-Original</u>	<u>DK-Original</u>			
GAS GRAVITY 0.694 COND. OR MISC. (C/M) C %N2 0.32 %CO2 0.93 %H2S 0.00 DIAMETER (IN) 2.375 DEPTH (FT) 5341 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 140 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1153 BOTTOMHOLE PRESSURE (PSIA) 1342.1	GAS GRAVITY0.618COND. OR MISC. (C/M)C%N20.25%CO21.57%H2S0.00DIAMETER (IN)2.375DEPTH (FT)7831SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)162FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2742BOTTOMHOLE PRESSURE (PSIA)3323.9			

Page No.: 1 Print Time: Tue May 20 10:08:08 1997 Property ID: 1792 Property Name: SAN JUAN 28-5 UNIT | 72 | 52195A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF

.

--DATE-- ---CUM GAS-- M SIWHP

1

DK

Mcf. Psi - initial 2742.0 < 06/21/67 0 60000 1915.0 10/31/67 1641.0 05/10/68 166000 05/29/69 336665 1480.0 06/09/70 517449 1352.0 646214 1327.0 05/03/71 05/30/72 775865 1362.0 05/16/73 903262 1302.0 04/30/75 1121971 1253.0 996.0 07/06/77 1324068 05/01/79 1342.0 1490806 954.0 05/01/81 1693434 09/20/83 1825804 1297.0 06/05/85 1935000 1230.0 10/23/88 1394.0 - current 2120012 992.0 🗲 07/28/92 2386986

' Page No.: 1 Print Time: Tue May 20 14:29:07 1997 Property ID: 3932 Property Name: SAN JUAN 28-5 UNIT | 24 | 51853A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF

525.0

512.0

DATE	CUM_GAS Mcf	M_SIWHP Psi
04/02/57	0	1153.0
12/30/57	52000	797.0
11/06/58	106000	757.0
06/14/59	140000	684.0
06/14/60	195000	673.0
06/13/61	249000	626.0
07/31/62	298000	588.0
01/07/63	312000	628.0
01/02/64	352000	659.0
01/26/65	391000	652.0
08/01/66	450000	628.0
08/04/67	489000	603.0
05/10/68	517000	630.0
06/09/70	591122	597.0
05/03/71	624581	555.0
05/30/72	664035	547.0
04/19/74	724116	612.0
08/02/78	820618	740.0
05/31/82	947577	576.0
11/02/84	999125	534.0
11/04/86	1057169	639.0
05/10/89	1131551	551.0

1191155

1276889

1208360 537.0

, **.**

02/18/91

08/16/91

08/30/93

ලා ² ^{7 ව∧} ලාලය ^{n∈} යියි n	مد کی کھی 8 کھ ^ی ہ	u⊛9 88 ⁸ 9	ଞ୍ଚ [®] 10 ଞ୍ଚ ^{୭୦} ଞ୍ଜି ^{୭୦}	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	12 83 ^{mat}
€ 889 ³⁹⁴ ³⁸ 689 € 889 88 88 18	**** ** ** 828 69* 17	袋 ⁶ 题"	بی ۲۵۵۵ ۲۹۹۹ ۲۵	≇ £ 28. 999 14. 8	699 21
₩ [×] ₩	и 11 ф ^{ил}	° ⊗" ⊠ 38""	** **	.	**************************************
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	**************************************	ଅନ୍ତ୍ର ଜ୍ୟା ଅନ୍ତ୍ର ଅନ୍ତୁ ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ୍ତ୍ର ଅନ ଅନ ଅନ୍ତ୍ର ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ୍ତ୍ର ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ ଅନ	۵ ^۵ ۲٬۰۰۰ ۵٬۰۰۹ ۵٬۰۰۹ ۵٬۰۰۹ ۵٬۰۰۹ ۵٬۰۰۹ ۵٬۰	1 8	(*************************************
ه ي ا	20 × & 23 23 24 20 20 20 20 20 20 20 20 20 20 20 20 20	21 88 ⁸⁷ 699 ²² 889 ⁶⁷⁴	22	23	24 7
**** *********************************	88 [°] '&	3	**************************************		@ •
30 ම ^{9%} 883 ³⁸	29 89 88	28 "窭 ^{怒""}	27	26	25 88 89 88 88
\$ \$ *	똃*	8 전 전 고 고 우 가 18	88 ⁶ 9 ×	× "see"	&″ ⊠*
31 दुख्	32 ************************************	33 ⊗'⊗ [°] ⊠	34 "题"""	35 "இணு "	36 88 ¹⁴

SAN JUAN 28-5 UNIT

14.

.

.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11627 ORDER NO. R-10695

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 28-5 UNIT PURSUANT TO DIVISION RULE 303.E. AND THE ADOPTION OF SPECIAL ADMINISTRATIVE RULES THEREFOR, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

?

. .

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November, 1996, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

¥

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E., seeks to establish a downhole commingling "reference case" to provide exceptions for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico.

21.

2

11-

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

"If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D. of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingle (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

(4) The applicant is the current operator of the San Juan 28-5 Unit which encompasses some 17.399 acres in Township 28 North, Range 5 West, NMPM, San Juan County, New Mexico.

(5) Within the San Juan 28-5 Unit, the applicant currently operates sixty-seven (67) Basin-Dakota Gas Pool wells, seventy-one (71) Blanco-Mesaverde Gas Pool wells, sixteen (16) Gobernador-Pictured Cliffs, Oso-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and nineteen (19) Basin-Fruitland Coal Gas Pool wells.

- (6) According to its evidence and testimony, Burlington seeks to:
- a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal";
- b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit;

CASE NO. 11627 Order No. R-10695 Page -3-

- c) establish a "reference case" whereby the Division utilizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit; and,
- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 28-5 Unit without additional notice to each affected interest owner as required by Division Rule No. 303.D.

(7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 28-5 Unit:

- a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent;
- b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 1,258 MMCFG and 77 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 276 MCFGD and 136 MCFGD, respectively; and,
- d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.

(8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit should be properly classified as "marginal".

(9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

1

- a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3,149 psi and 1,143 psi, respectively; and.
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1.059 psi and 714 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 28-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 28-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;
- b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.

(12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore, the proposal to except allocation formulas should be approved.

(13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 28-5 Unit the applicant presented evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given wellbore in the San Juan 28-5 Unit is generally not common;
- b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 28-5 Unit every time a Form C-107-A is submitted to the Division. There are a considerable number of such interest owners within the unit:

- c) providing notice to each interest owner within the San Juan 28-5 Unit of subsequent downhole comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole commingling of wells within the San Juan 28-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-5 Unit should not violate the correlative rights of any interest owner;
- e) no interest owner appeared at the hearing in opposition to the establishment of a "reference case" or administrative procedure for notice.

(14) An administrative procedure should be established within the San Juan 28-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions contained within Division Rule No. 303.C. are complied with.

(15) Approval of the proposed "reference cases" for marginal economic criteria, pressure criteria, allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C-107-A, will provide the applicant a streamlined method for obtaining downhole commingling approvals within the San Juan 28-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria. (b) pressure criteria. (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico, is hereby approved. CASE NO. 11627 Order No. R-10695 Page -6-

(2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 28-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.

(3) In order to obtain Division authorization to downhole commingle wells within the San Juan 28-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 28-5 Unit of such proposed commingling.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM . LeMAY Director (

SEAL