DATE IN	024/97	SUSPENSE 13/97	NGINEER D C	LOGGED	TYPE DHC				
-			ABOVE THIS LINE FOR DIVISION USE (SNLY	EGELVET				
		NEW MEXICO	OIL CONSERVA - Engineering Bureau -	ATION DIVISION	OCT 2 & 1997				
		ADMINISTRATIV	E APPLICATION	ON COVERSI	HEET CONSTRIVATION DRIVING				
	THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS								
Applica	(PC-Pe	(NSP-Non-Standard Pi (DD-Directional I (nhole Commingling) (Ocol Commingling) (OLS) (WFX-Waterflood Expans	Orilling] [SD-Simult TB-Lease Commingli - Off-Lease Storage] sion] [PMX-Pressur sposal] [IPI-Injection	aneous Dedication] ing] [PLC-Pool/Lea [OLM-Off-Lease Me e Maintenance Expa on Pressure Increas	ase Commingling] 13 Measurement] ansion] e]				
[1]	TYPE OF A	PPLICATION - Check Location - Spacing U NSL NSP		illing					
	Check [B]	Commingling - Stora		PC 🗖 OLS	□ OLM				
	[C]	Injection - Disposal - ☐ WFX ☐ PMX		Enhanced Oil Rec IPI	covery PPR				
[2]	NOTIFICAT	TION REQUIRED TO ☐ Working, Royalty		• • •					
	[B]	Offset Operators, I	Leaseholders or Sur	face Owner					
	[C]	☐ Application is One	Which Requires P	ublished Legal No	tice				
	[D]	V.S. Bureau of Land Mar	r Concurrent Appro lagement - Commissioner of P	val by BLM or SL ublic Lands, State Land Offic	O e				
	[E]	☐ For all of the abov	e, Proof of Notifica	tion or Publication	is Attached, and/or,				
	[F]	☐ Waivers are Attacl	hed						
[3]	INFORMAT	TION / DATA SUBMI	TTED IS COMPI	LETE - Statement	of Understanding				
Regula	ations of the O	il Conservation Division	n. Further, I asser	t that the attached	I with all applicable Rules and application for administrative able, verify that all interest (WI				

RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the

Note: Statement must be completed by an individual with supervisory capacity. Regulatory/Compliance Administrator Title

application package returned with no action taken.

Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

October 21, 1997

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

Re:

San Juan 28-6 Unit #208M

805'FSL, 1905'FEL Section 11, T-27-N, R-06-W, Rio Arriba County, NM

API #30-039-25704

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is a new drill Mesa Verde/Dakota well for the 1998 Program.

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;
- C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Anticipated production curve for the Mesa Verde and Dakota for at least year;
- 4. Notification list of offset operators Burlington is the operator of the unit;
- 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-10696 dated November 12, 1996.

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.

Stad Kield

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

Xc:

Bureau of Land Management - Farmington

NMOCD - Aztec

DISTRICT I

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

DISTRICT II

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

811 South First St., Artesia, NM 88210-2835

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

PO Box 4289, Farmington, NM 87499

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410-1693

Burlington Resources Oil & Gas Company

APPLICATION FOR DOWNHOLE COMMINGLING

Address

EXISTING WELLBORE
__YES _x_NO

San Juan 28-6 Unit	208M	O 11-27N-6W		Rio Arriba
Lease	Well No.	Unit Ltr Sec - Twp -	•	County
OGRID NO14538 Property (Code 7462 API N	O. 30-039-25704	,	it Lease Types: (check 1 or more) ite
The following facts are submitted in support of downhold commingling:	Upper Zone	A Proposition of State of the Control of the Contro	ermediate Zone	Lower Zone
Pool Name and Pool Code	Blanco Mesaverde - 723	19		Basin Dakota - 71599
Top and Bottom of Pay Section (Perforations)	will be supplied upon completion			will be supplied upon completion
Type of production (Oil or Gas)	gas			gas
Method of Production (Flowing or Artificial Lift)	flowing			flowing
5. Bottomhole Pressure	(Current) a. 585 psi (see attachme	ent) a.		a. 1009 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current				
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1195 psi (see attachn	nent) b.		b. 3154 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1203			BTU 1079
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	Date: n/a Rates:	Date:		Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data				
* 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: %	Oil: %	Gas:	Oil: Gas: %
9. If allocation formula is based submit attachments with supp 10. Are all working, overriding, and If not, have all working, overrid Have all offset operators been	d royalty interests identic ling, and royalty interest given written notice of th	cal in all commingle s been notified by c ne proposed downho	d zones? ertified mail? ole commingling?	Yesx_No Yesx_No _x_YesNo
11. Will cross-flow occur? _x_ Y production be recovered, and				
12. Are all produced fluids from all	-			1
 Will the value of production be If this well is on, or communit Bureau of Land Management ha 	, -		• • •	
15. NMOCD Reference Cases for R	ule 303(D) Exceptions:	ORDER NO(S).	R-10696	· .
40 4774044474	to be commingled showing each zone for at least of oduction history, estimatication method or formula loffset operators. Torking, overriding, and rements, data, or documen			
I hereby certify that the inform		and complete to t	he best of my kno	owledge and belief.
SIGNATURE Seen Wood	vertor_TITLE	Production En	gineerDA	TE10 <u>/21/97</u>
TYPE OR PRINT NAME <u>Sea</u>	n C. Woolverton	TELEPHONE NO	. <u>(505)</u>	700

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Santa Fe, NM 87504-2088

Form C-10 Revised February 21, 199 Instructions on bac

Oistrict II PO Drawer OD. Artesia, NM 88211-0719 OIL CONSERVATION DIVISION
PO Box 2088

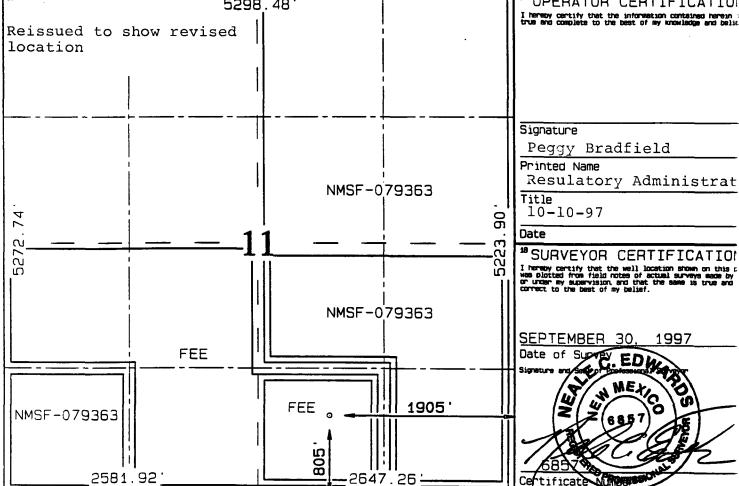
Submit to Appropriate District Office
State Lease - 4 Copie
Fee Lease - 3 Copie

District III 1000 Rio Brazos Rd. Aztec, NM 87410

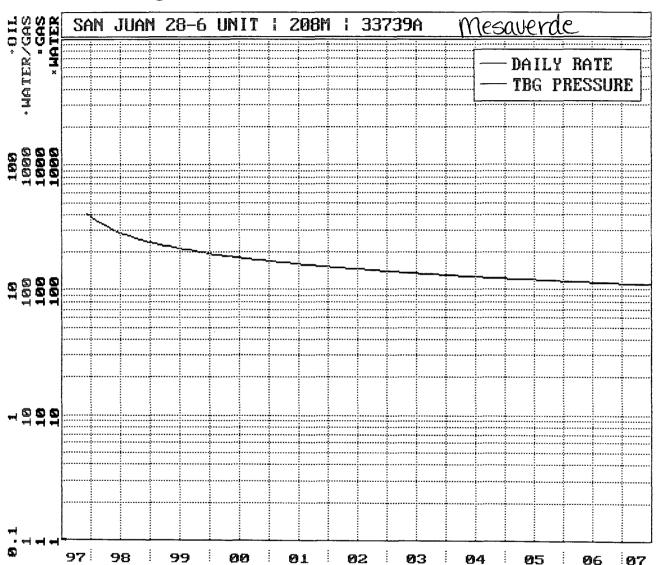
AMENDED REPOR

District IV PO Box 2088, Santa Fe. NM **87504-2088**

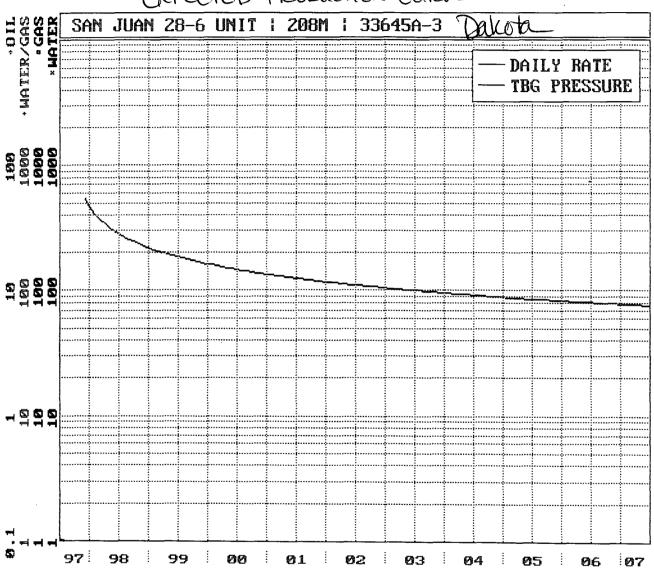
WELL LOCATION AND ACREAGE DEDICATION PLAT											
API Number Pool Code Pool N						Pool Nam	е				
30-03	9-2570	0 4	7231	9/7159		anco Mesave	rde/Basin	Dako	ta		
*Property	Code					operty Name "Well Number				11 Number	
7462				5	AN JUAN	28-6 UNIT			208M		
'OGRID N	VO.				*Operato				' E	levation	
14538		ŧ	BURL 1	ENGTON	RESOURCE	S OIL & GAS	COMPANY		(6281	
	····			1	^o Surface	Location	-	·	•		
UL or lot no.	Section	Townensp	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/M	est line	County	
0	11	27N	6W		805	South	1905	Ea	st.	RIO ARRIBA	
		¹¹ Bo	ttom	Hole L	ocation I	f Different	From Surf	ace			
UL or lot no.	Section	Townshap	Range	Lot Idn	Feet from the	North/South line	Feet from the		est line	County	
	! !										
MV-E/32	0	13 Joint or Infil	1 ³⁴ Cone	solidation Code	¹⁵ Order No.	<u> </u>	-	·			
DK-S/32											
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											
5298.48 "OPERATOR CERTIFICATION											
I hereby contify that the information contained near the term and the later of the heat of an investment and tents											
Reissued to show revised											
location											
				11		1	11				



EXPECTED PRODUCTION CURVE



EXPECTED PRODUCTION CURVE

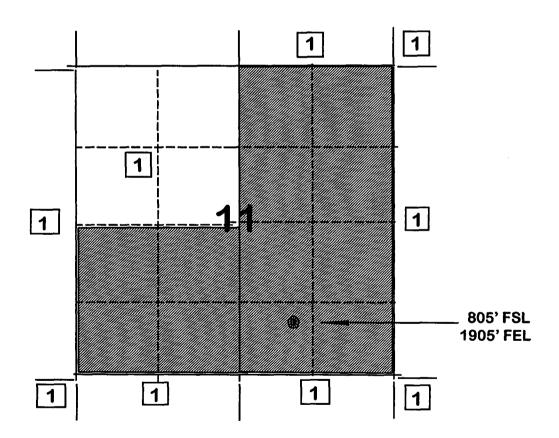


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #208M OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2) / Dakota (S/2) Formations Commingle Well

Township 27 North, Range 6 West



1) Burlington Resources Oil and Gas Company

San Juan 28-6 Unit #208M

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Dakota			
MV-Current	<u>DK-Current</u>			
GAS GRAVITY 0.705 COND. OR MISC. (C/M) C %N2 0.32 %CO2 0.79 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 5262 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 510 BOTTOMHOLE PRESSURE (PSIA) 584.9	GAS GRAVITY COND. OR MISC. (C/M) %N2 %N2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1008.7			
MV-Original	DK-Original			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1028 0.705 0.32 0.79 4.22 0.79 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.	GAS GRAVITY COND. OR MISC. (C/M) %N2 %N2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3153.8			

Page No.: 6

Print Time: Mon Oct 20 13:25:27 1997

Property ID: 1894

Property Name: SAN JUAN 28-6 UNIT | 208 | 44082A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

San Juan 28-6 Unit # 208 M Dakota Offset

05/23/74 0 2634.0 OUCLIAN 0 2635.0 08/06/74 39887 1622.0 05/05/75 135982 844.0 04/29/76 199845 777.0 07/05/77 269780 749.0 08/21/79 369274 698.0 08/12/81 458415 635.0 09/28/83 532583 712.0 09/04/85 605766 718.0 09/05/88 684495 842.0 05/08/90 734456 764.0 05/08/90 734456 764.0	DATE	CUM_GAS	M SIWHP Psi
04/29/92 $/829/1$ 853.0 (*1) $1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/$	05/31/74	0	2635.0
	08/06/74	39887	1622.0
	05/05/75	135982	844.0
	04/29/76	199845	777.0
	07/05/77	269780	749.0
	08/21/79	369274	698.0
	08/12/81	458415	635.0
	09/28/83	532583	712.0
	09/04/85	605766	718.0
	10/05/88	684495	842.0

Page No.: 2

Print Time: Mon Oct 20 13:25:26 1997

Property ID: 4078

Property Name: SAN JUAN 28-6 UNIT | 79 | 53438B-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

San Juan 28-6 Unit #208 M Mesaverde Offset

DATE	CUM_GAS Mcf		
07/08/58 07/30/58 12/14/58 03/13/59 09/22/60 06/13/61 06/04/62 05/06/63 04/22/64 10/18/65 06/07/66 05/25/67 05/25/67 05/25/67 05/27/68 07/28/70 06/22/71 06/07/72 05/02/74 04/29/76 05/23/78 06/04/80	0 0 35000 51000 134000 167000 212000 249000 282000 339000 357000 393000 423000 491983 528743 579237 643190 704232 777286 839738		-original
05/20/82 06/17/91	889833 1025653	561.0 510.0	-current

San Juan 28-6 Unit #208M Blanco Mesaverde / Basin Dakota 27N-06W-110

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186M NM 10224 🔀	. 図	—————————————————————————————————————	98-Y	92 SD NM 6689	
NM10226 37 NM 10225 135M 135M 1225 135M 1225 135M		167 NM 10218	NM 6593 15M 65 15M 65 15M 15M 15M 15M 15M 15M 15M 15M 15M 15	NM 10362 NM 6689 NM 10362	1 209M
S.J. 28-6 Unit	S.J. 28-6 Unit	TD.5250* S.J. 28-6 Unit	S.J. 28-6 Unit	S.J. 28-6 Uni	166 ∰ 26
103M MM 10225 45 MM 223 95 MM0226 203 95	104M NM 10225	(MESA 0P)	NM 9690 NM 4217 207M 207M 24 M 206 555	NN 4217 See See See See See See See See See Se	161 250 80 P
7	NM 6537 8 ⊕ ³³ ⊠ ¹⁰⁴	9 × × × × × × × × × × × × × × × × × × ×	75 (See 207	208 NM 9990 208M	12 81 82 P 8982
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97 P 57 97A BE 69		16 56 🐯	15 % 27A %	14 Fee 67A 67A 64 64 65 ES	NM 4289 179 NM 9689 P EE
77-4M DE EE	Rincon Uni NM 4221 UNION 175M 175	Rencon Unit NAI 422 NAI 422 NAI 422 NAI 423 NAI 423 NAI 424 NAI 424	S.J. 28-6 Unt NM 4220 UNION SI SE 29	SJ 28-6 Unit NM 4220 83 UNION \$8 82A 46	SJ 28-6 Uni NM 4289 NM 9589 69A \$\begin{array}{ccc} \text{P} & \text{RB} & \text{P} & \text{SB} & \text{F} & \text{SB} & \text{F} & F
19 107 NM 4221 1082 108A 223 74 C 233	M 20 170E S M DOWN 170E M M 170E M M UNICOL	21 — 21 17N 155	22 — 58M 58	23	24 ————————————————————————————————————
Rincon Unit	M UNOCAL Rincon Unit NM 4218 135E UNON OIL	Rincon Unit 127M NM 4218	Rincon Unit NAM 4221 UNION OL 98	Rincon Unit NM 4222	S.J. 28-6 Unit NM 4223 (NAPC)
UNON 149M □ 149M □ 149M □ 149M □	28 ⊠ C	LE/M UNION OIL SEE 127 M SEE 127 M	89 99A ⊠ P	125M B2 P 器 器	\$5 57 \$6 € ₹
RINCON UNIT	29 RS WINDOW WINDOW	28 28 28 1284 M M Ancon Uni	NM 4222 27 NM 4221 NM	26 100A 182E 100A 182E 100BES G 100BES G 100BES G	25 L
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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. 11628 ORDER NO. R-10696

APPLICATION OF BURLINGTON RESOURCES
OIL & GAS COMPANY FOR THE ESTABLISHMENT
OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" FOR ITS SAN JUAN 28-6 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 28-6 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

- 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 28-6 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 28-6 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 28-6 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 449 MMCFG and 186 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 254 MCFGD and 216 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 28-6 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 28-6 Unit, the applicant presented engineering evidence and testimony which indicates that:

- c) providing notice to each interest owner within the San Juan 28-6
 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 28-6 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-6 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 28-6 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 28-6 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 28-6 Unit, San Juan County, New Mexico, is hereby approved.