ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

•	ADMINISTRATIVE APPLICATION COVERSHEET								
•	THIS COVERSHE	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS							
Applica	PC-Pc	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nhole 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] lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]							
[1]	TVDE OF A	PPLICATION - Check Those Which Apply for [A]							
[1]	[A]	Location - Spacing Unit - Directional Drilling NSL NSP DD DSD OCT - 7 1997							
	Check [B]	One Only for [B] and [C] Commingling - Storage - Measurement ODHC CTB PLC PC COLS COLM							
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR							
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners							
	[B]	☐ Offset Operators, Leaseholders or Surface Owner							
	[C]	☐ Application is One Which Requires Published Legal Notice							
	[D]	Dotification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office							
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,							
	[F]	☐ Waivers are Attached							
[3]	INFORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding							

[F]	☐ Waivers are Attached		
[3] INFORMAT	TION / DATA SUBMITTEI	D IS COMPLETE - Statement of Understand	ding
Regulations of the O approval is accurate RI, ORRI) is commo	il Conservation Division. Fu and complete to the best of m	ervision, have read and complied with all applurther, I assert that the attached application for any knowledge and where applicable, verify the ssion of data, information or notification is call.	or administrative at all interest (WI,
	Note: Statement must be comp	pleted by an individual with supervisory capacity.	
Peggy Bradfield	Stathiel	Regulatory/Compliance Administrator	10-3-97
Print or Type Name	Signature	Title	Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

October 3, 1997

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

Re:

San Juan 28-6 Unit #141M

1130'FNL, 990'FWL Section 36, T-28-N, R-06-W, Rio Arriba County, NM

API #30-039-25743

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;
- 2. 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.

Stadhuel

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

Xc:

Bureau of Land Management - Farmington

NMOCD - Aztec

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:

X Administrative ___Hearing

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

Address

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

Burlington Resources Oil & Gas Company

_ YES <u>x</u>no PO Box 4289, Farmington, NM 87499

SAN JUAN 28-6 UNIT	141M	D 36-28N-6W	Rio Arriba
.ease	Well No. Unit	Ltr Sec - Twp - Rge Spacing I	County Unit Lease Types: (check 1 or more)
OGRID NO14538 Property (Code7462 API NO30	· ·	, State _X, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Lone	Intermediate Zone	Zone
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	(Current) a. 461 psi (see attachment)	a.	a. 941 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	(Original) b. 1264 psi (see attachment)	b.	b. 3132 psi (see attachment)
Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTÜ Content	BTU 999		BTU 1070
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: Rates:	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: % will be supplied upon completion
10. Are all working, overriding, an If not, have all working, overri Have all offset operators been	d royalty interests identical in a ding, and royalty interests been given written notice of the prop	Il commingled zones? notified by certified mail? posed downhole commingling?	based upon some other method, submrother required data. Yesx_NoYesxNo _x_YesNo s not be damaged, will any cross-flowe
production be recovered, and 12. Are all produced fluids from al		<u> </u>	•
13. Will the value of production be	- · · · · · · · · · · · · · · · · · · ·		
 If this well is on, or communitized that the communitized is the communitized that the communitized is the communitized that the communitized is the communitized in the communitized in the communitized is the communitized in the communitized in the communitized is the communitized in the communities in the	zed with, state or federal lands, tified in writing of this applicati	either the Commissioner of Pu onXYes No	blic Lands or the United States Bureau
15. NMOCD Reference Cases for F	Rule 303(D) Exceptions: ORDE	R NO(S)R-10696	
16. ATTACHMENTS: * C-102 for each zone * Production curve fo * For zones with no pi * Data to support allo * Notification list of all * Any additional state	to be commingled showing its a reach zone for at least one yea roduction history, estimated pro cation method or formula. Il offset operators. orking, overriding, and royalty i ments, data, or documents requ	spacing unit and acreage dedic r. (if not available, attach expla oduction rates and supporting d interests for uncommon interest uired to support commingling.	ation. mation.) ata. t cases.
I hereby certify that the infor	mation above is true and co	omplete to the best of my ki	nowledge and belief.
SIGNATURE Sean Was	herton_TITLE_Pro	oduction EngineerD	ATE10/02/97
TYPE OR PRINT NAME <u>Sea</u>	n C. Woolverton TELE	PHONE NO. <u>(505) 326-</u>	9700

District I PO Box 1980, Hobbs, NM 88241-1980 District il PO Drawer DD. Artesia, NM 88211-0719 District (II 1000 Rio Brazos Rd., Aztec. NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & 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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	1 Pool Code	' Pool Name			
30-039-	72319/71599	Blanco Mesaverde/Basin Dak	ota		
' Property Code		* Property Name	* Well Number		
7462	San Jua	San Juan 28-6 Unit			
'OGRID No.		Operator Name	' Elevation		
14538	BURLINGTON RESOU	LINGTON RESOURCES OIL & GAS COMPANY			
	10 (Surface Location			

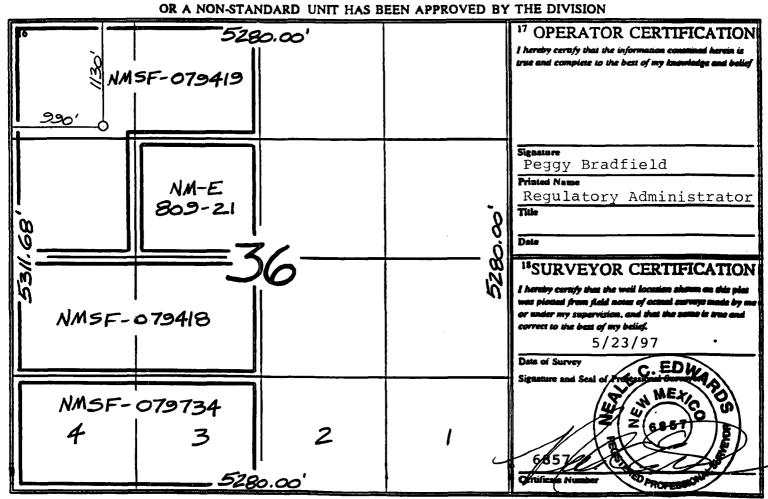
Surface Location

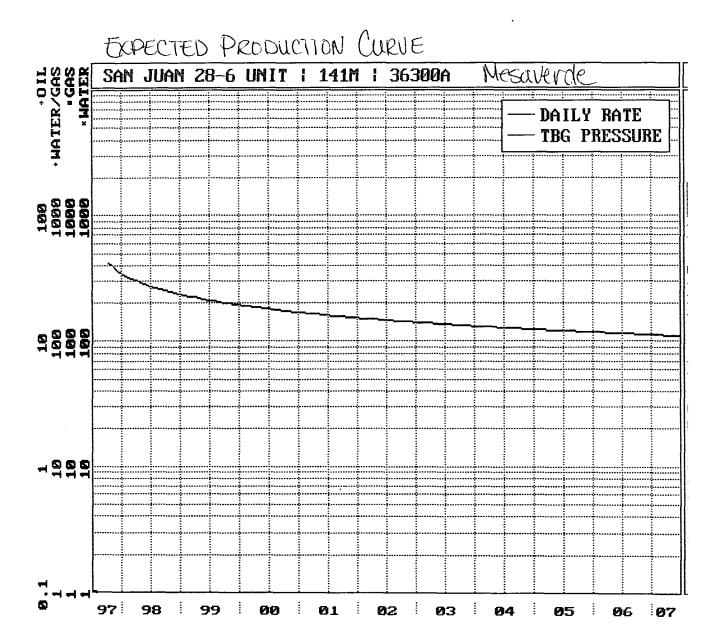
- 1	UL or lot no.	Section	Township	Range	Lot Ide	Feet from the	North/South line	Feet from the	East/West line	County
	D	36	28	6	İ	1130	North	990	West	R.A.
•				11 -				- C		

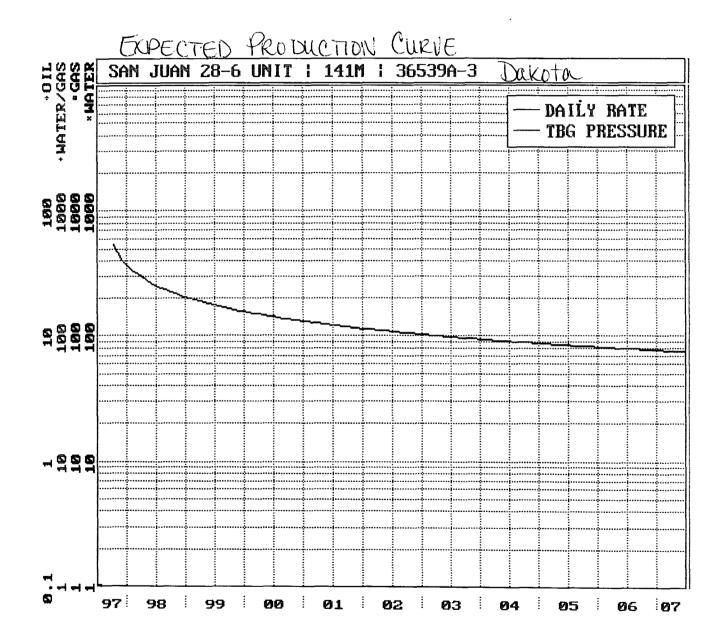
11 Rottom Hole Location of Different From Surface

	Bottom Hole Location if Different From Surface								
UL or ict so.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West tipe	County
	<u> </u>		<u> </u>	<u> </u>	<u> </u>				
MV-W/32	21	or infill "	Consolidati	on Code	Order No.				
DK-W/32	21			_					

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





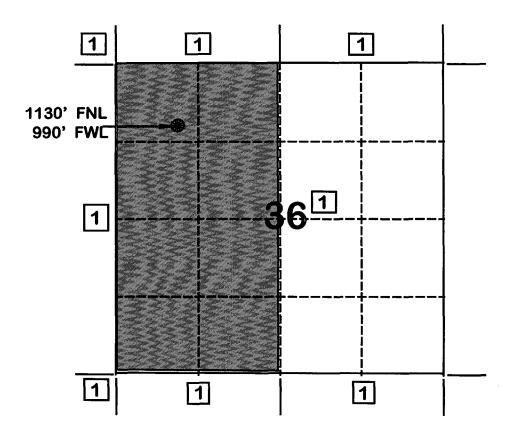


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #141M OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

SJ 28-6 Unit #141M

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 COND. OR MISC. (C/M) %N2 %CO2 1.85 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 461.3	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.625 C 0.3 1.19 0 1.5 7793 60 198 0 792			
MV-Original	DK-Original				
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.85 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) 0.587 C 0.07 60 60 60 60 60 61 61 61 62 63 64 65 65 65 66 67 68 69 60 60 60 60 60 60 60 60 60	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.625 C 0.3 1.19 0 1.5 7793 60 198 0 2600			

Page No.: 3

Print Time: Wed Aug 20 11:26:35 1997

Property ID: 4092
Property Name: SAN JUAN 28-6 UNIT | 97 | 53449B-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF San Juan 28-6 Unit

				M1 2001 20 6	
DATE	CUM_GAS	M SIWHP		#141 M_	
05/02/60	•	1110 0	-original	Mesaverde	offset
07/03/60	0	1112.0	Or regiment	MESAVERICE	0110
08/25/60	0	1111.0			
06/13/61	126000	842.0			
05/29/62	254000	805.0			
05/16/63	401000	759.0			
05/26/64	557000	710.0			
03/08/65	686000	693.0			
04/12/66	881000	648.0			
03/22/67	1054000	636.0			
04/01/68	1206000	622.0			
06/27/69	1391284	575.0			
05/25/70	1537162	536.0			
05/04/71	1696032	492.0			
05/22/72	1839592	479.0			
08/21/73	2030055	502.0			
07/31/74	2153304	422.0			
07/12/76	2377398	383.0			
05/15/78	2560251	444.0			
01/29/80	2736232	343.0			
04/18/80	2761116	358.0			
05/28/82	2898154	404.0			
02/06/84	2925105	509.0			
06/06/84	2935873	495.0			
06/07/85	2961703	504.0			
04/07/86	2984973	504.0			
09/07/89	3113545	512.0			
01/16/91	3148846	520.0			
08/26/91	3166094	532.0	-current		
01/03/94	3249819	410.0	Carraro		

Page No.: 5

Print Time: Wed Aug 20 11:26:36 1997

Property ID: 1861

Property Name: SAN JUAN 28-6 UNIT | 150 | 52360A-1

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

San Juan 28-6 Unit #141 M Dakota Offset

DATE	CUM_GAS	M SIWHP	# 14
05/11/70	0	2600.0-original	TOV
12/28/70	61355	1480.0	Luk
10/19/71	157406	1130.0	
05/22/72	201749	1052.0	
08/21/73	285814	946.0	
06/24/75	400907	889.0	
08/08/77	515235	881.0	
04/24/79	595681	860.0	
09/29/81	689753	1030.0	
09/22/83	738508	1014.0	
06/07/85	794689	824.0	
05/12/88	879454	944.0	
06/08/90	945098	992.0	
08/06/92	1006829	792.0-Current	

San Juan 28-6 Unit #141M Mesaverde / Dakota 28N-06W-36D

NM 403	l 8 659***	NM 305 NM 305 55A 🖾 120 155	NN 305 FF 17	NM 305 402 56A NM 305 136	T.D NM 305
184 × 184	⊗ ⁵ ⊠ ²¹	55 NM D8 9	® 10 ₩ 58 ⊗ 6A	\$356 NM D8	\$20R NN /58 €\$20A
S.J. 28-6 Unit NM 403	S.J. 28-6 Unit NM 6832 ,22	S.J. 28-6 Unit NM 6832 22 48 173	S.J. 28-6 Uhrt NM 6832 ,22	S.J. 28-6 Unit NM 6526 ,22	S.J. 28-6 Unit NN 305
28A \$\infty \big ^2 \rightarrow \frac{1}{2} \rightarro	1 Dane	NN D8 SJ 28-6 Unt D3	⊗ ^{47A} ⊗ ⁴⁶	⊕ 5	\$57A № \$7
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18 NN 908	17	16	15	14	NW 6552 NM6756 13 NM 6552
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₩ ⁶⁸	™ 148 144	76 De	47 ⊕ ⊕ 46A	¹⁷⁷ ⊠⊗ ⁵⁹	75 🛞 🛱 71A 🛞 (NAPO
S.J. 28-6 Unit NM 908 NM 6833 ,22	S.J. 28-6 Unit NM 6833 , 22	S.J. 28-6 Unit NM 6833 ,22	S.J. 28-6 Unit NM 6833 ,22	S.J. 28-6 (April NNI 6616 NNI 2308 NNI 6616	S.J. 28-6 Unit NM 6756 NM 6551
\$50A	**************************************	∞⊕ ™		S ^{76A} SS	99M
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19	20		UNIT 22	23	Z4 MESA)
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5.0 28-6 Unit	\$3.J. 28-6 Unit	\$3.1. 28-6 Unit	S.J. 28-6 Unit	S.J. 28-6 Unit	52 S.J. 28-6 Unit
NM 908 165	NM 6552 NM 10221 GMESA) 7	NN 10222 148 (TENNECO) 30	NM 10223,22 NM 10222.22 149	NM 6595 NM 6594	(MESA)
" ⊛	NM 1992 NM 1923 NM 1924 NM 192		154M 図 M	113M 45 \$\frac{15}{100} \qquad \qqquad \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq	153M ⊕ ¹⁰ ⊠ ¹⁴
70	29	28	27	1	25
165M 	AS 51	NN 6594		26 	25
⊗ [®]		₩ ⁵⁵	8	102M	₩ NA P
SJ 28-6 UNI	S.d. 28-6 Unit Nati 1077277 NM 10218	S.J. 28-0 Unit	S.J. 28-6 Unit	S.J. 28-6 Unit NM 6593 , 22	S.J. 28-6 Unit
NM 4852 RIASIN⊅ EX	M. 1028 (TENNECO) (TENNECO) 34	NM 1928 (TENNECO) 32 M	NM 10216 (TENNECO)	NM 6583 72 P 655 97 FX 150	# 141 M BB3 94
\$ ⁵²	<u> </u>	М	b ⊠	<u>₩</u>	NM 6700
31	32	- 33	34	35	16
7 220 213M	NM 10224,22 (TENNECO)	33 NM 10224,22 (TENNECO)	NM 10224.22 ⊕ 42 (TENNECO)	88 NM 6597	NM 6612, 22 NM 6610
\$\$ 20\$M ₩	6 3 152 152 152 152 152 152 152 152 152 152	M 322 (32)	E4	105 97A ₩ ₩ ₩	NV SS
S.J. 28-5 Uni!	S.J. 28-6 Unit	\$.J. 28 -6 Utvt	S.J. 28-6 Unit	S.J. 28-6 Unit	6623 P S.J. 28-6 Unit

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:

- 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 28-6 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.