DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

DISTRICT III

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

1000 Rio Brazos Rd, Aztac, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

### **OIL CONSERVATION DIVISION**

APPLICATION FOR DOWNHOLE COMMINGLING

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

Form C-107-A New 3-12-96

APPROVAL PROCESS :

\_X\_ Administrative

**EXISTING WELLBORE** 

X\_YES \_\_NO

#### PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil and Gas** O 32-28N-05W Rio Arriba #38A San Juan 28-5 Unit Unit Ltr. - Sec - Twp - Rge Well No. County Spacing Unit Lease Types: (check 1 or more) Federal\_ API NO. \_30-039- 22233\_ \_ X\_\_ , State . \_, Fee OGRID NO. 14538 Property Code 7460 The following facts are submitted in support of downhole commingling: Intermediate Zone Tapacito Pic Cliffs - 85920 Blanco Mesaverde - 72319 1. Pool Name and Pool Code 4983'-5815' 3296'-3356' 2. Top and Bottom of Pay Section (Perforations) Gas 3. Type of production (Oil or Gas) Ð 4. Method of Production (Flowing or Artificial Lift) Flowing Flowing (Current) a. \622 psi (see attachment) a. 442 psi (see attachment) 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current (Original) p. 1096 psi (see attachment) b. 953 psi (see attachment) All Gas Zones: Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content BTU 1210 **BTU 1150 Producing** Producing 7. Producing or Shut-In? Production Marginal? (yes or no) Yes Date: N/A If Shut-In and oil/gas/water rates of last production Date: N/A Rates: Rates Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data Date: 6/18/98 \* If Producing, give data and oil/gas/water water of recent test (within 60 days) Date: 6/18/98 Rates: 191 mcfd 0.8 bopd Rates: 11 mcfd 0.0 bopd 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) Will be supplied upon completion. 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. 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 <u>X\_</u>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 \_ 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 attached 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.

TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. ( 505 ) 326-9700

TITLE Production Engineer DATE 6/23/98

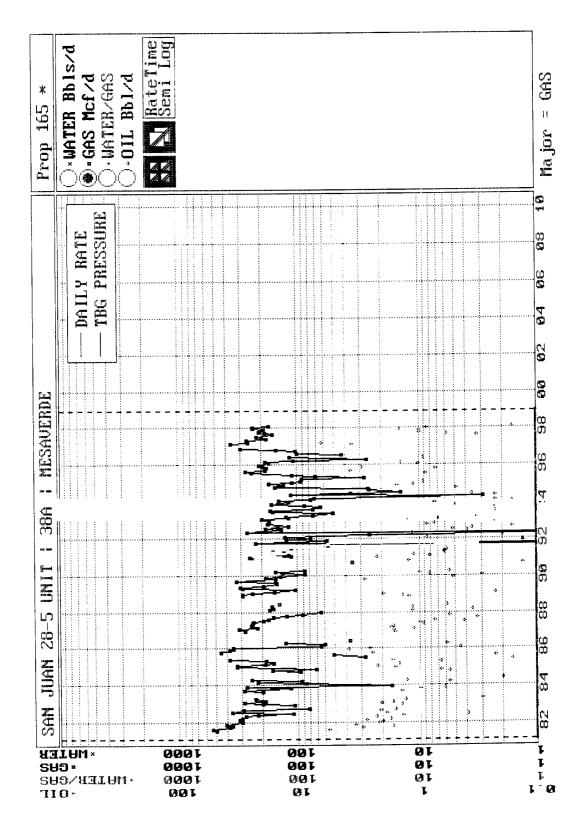
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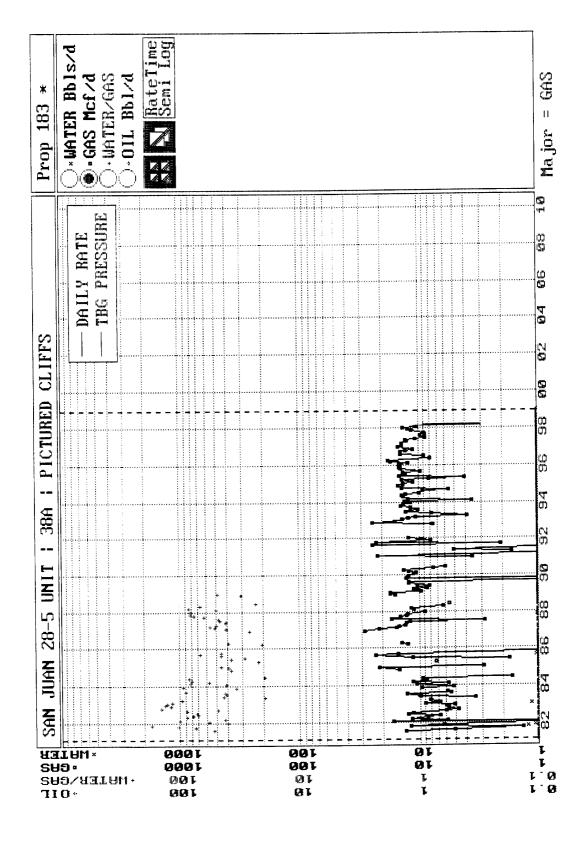
# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

1980 Form C-107 Revised 10-1-

All distances must be from the cuter boundaries of the Section

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Cperator EL PASO NAT	URAL GAS COME	ANY	Lease SAN	JUAN 28-5	UNIT (SF-079	1521)	Well No.	
Unit Letter Section Township			Roang	e .	County			
0	32	28N		5W	Rio Arrib	a ————		
Actual Footage Loc	feet from the Sc	outh line	1610	fee	t from the	ast	line	
Ground Level Elev. 6487	Producing Fo MESA VEH	11010101			RED CLIFFS E MESA VERDE	XT. Dedic	ated Acreage: .40 & 318.72 Acre	
1. Outline th	e acreage dedica	ted to the subjec	······································	<del></del>				
2. If more th interest ar	an one lease is nd royalty).	dedicated to the	well, outline	each and ide	ntify the owners	hip thereo	f (both as to working	
3. If more the dated by c	on one lease of dommunitization,	ifferent ownership unitization, force-p	is dedicated ooling.etc?	to the well,	have the intores	ts of all o	owners been consoli	
XX Yes	☐ No If a	nswer is ''yes;' ty	pe of consoli	dation	Uni	<u>izatio</u>	n	
If answer : this form i	is "no," list the f necessary.)	owners and tract o	lescriptions v	vhich have ac	tually been con	solidated.	(Use reverse side o	
No allowat	ole will be assign	ed to the well unti ) or until a non-star	l all interests idard unit, el	s have been o	onsolidated (by h interests, has	communit	tization, unitization oved by the Commis-	
	!					CER	RTIFICATION	
	DECEN	ved			tai	ned herein is	that the information con- true and complete to the dedge and belief.	
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				L SURVIV	Ed.,	¿aso Na	tural Gas Co.	
	1				Cate	<del>ber 18</del>	<del>, 1979</del>	
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	           	SF-0,9521	?		she X no: iX unc	own on this p es of actual der my superv	y that the well location lat was plotted from field surveys made by me or rision, and that the same rrect to the best of my belief.	
#38			81,51		A U	Surveyed  gust	menal gar kuner	
0 330 660	90 1320 1650 191	10 2310 2640	2000 1500	1000 5	1 - 1-1	d AF H	irr in	





# San Juan 28-5 Unit #38A Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 1/14/98

Pictured Cliffs	Mesaverde
PC-Current	<u>MV-Current</u>
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)  621.9	GAS GRAVITY 0.692 COND. OR MISC. (C/M) C %N2 0.30 %CO2 0.92 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 5399 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 147 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 387  BOTTOMHOLE PRESSURE (PSIA) 442.1
PC-Original	MV-Original
GAS GRAVITY 0.676 COND. OR MISC. (C/M) C %N2 1.32 %CO2 0.53 %H2S 0 DIAMETER (IN) 7 DEPTH (FT) 3326 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 114 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1000 BOTTOMHOLE PRESSURE (PSIA) 1096.3	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) 953.4

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Page No.: 23
   Print Time: Fri May 08 08:28:41 1998
  Property ID: 183
Property Name: SAN JUAN 28-5 UNIT | 38A | PICTURED CLIFFS
   Table Name: S:\ARIES\78LTL\TEST.DBF
--DATE-- --CUM OIL- ---CUM GAS-- M SIWHP
                        Mcf Psi
             Bbl
                                1000.0 Original
01/27/81
                            1866 730.0
02/23/82
                           2693 665.0
05/31/82
                            6146 604.0
09/19/83
                           7095 619.0
02/13/84
                           11881
                                  620.0
04/17/86
                           21443 677.0
05/10/89
                           27287 777.0
09/10/91
                          52636 571.0 Current OSE stated from P/2 rata
NU 31 198
```

Page No.: 5 Print Time: Fri May 08 08:28:38 1998 Property ID: 165 Property Name: SAN JUAN 28-5 UNIT | 38A | MESAVERDE Table Name: S:\ARIES\78LTL\TEST.DBF --DATE-- --CUM OIL- ---CUM GAS-- M SIWHP Mcf Psi Bbl 826.0 Original 01/27/81 53678 541.0 10/01/81 118455 561.0 05/31/82 190321 596.0 09/19/83 222729 575.0 05/02/84 337860 443.0 04/17/86 489525 713.0 05/10/89 463.0 576388 04/15/91 589326 475.0 09/10/91 680869 492.0 08/30/93 912509 387.0 Current estimated from P/z data 54 101 198

### **Package Preparation Volume Data**

### DPNO-53417A SAN JUAN 28-5 UNIT 38A JEAN JUAN 28-5 UNIT PO

Supt: 60

KEN RAYBON

FF: 335 LARY BYARS

MS: 378 GARY NELSON

Pipeline: WFS

Plunger: No

Dual: Yes

Compressor: No

Ownership (No Trust)				Prior Year			Current Year			
GWI:	<u>Gas</u> 64.1250%	<u>Oil</u> 64.1250%		MCF/M	ВОРМ	<u>Days</u> <u>On</u>	MCF/M	ВОРМ	<u>Days</u> <u>On</u>	
GNI:	53.2547%	53.2547%	Jan	331	0.0	31	327	0.0	31	
			Feb	349	0.0	28	236	0.0	28	
Volumes			Mar	334	0.0	31	202	0.0	31	
(Days On)	MCF	D BOPD	Apr	298	0.0	30	308	0.0	30	
7 Day Avg	13	0.0	May	308	0.0	31	0	0.0	26.9	
30 Day Avg	13	3 0.0	Jun	241	0.0	30	0	0.0	0	
60 Day Avg	<b>j 1</b> 1	1 0.0	Jul	178	0.0	31	0	0.0	0	
3 Mo Avg	8	0.0	Aug	204	0.0	31	0	0.0	0	
6 Mo Avg	9	0.0	Sept	180	0.0	30	0	0.0	0	
12 MoAvg	8	0.0	Oct	208	0.0	25	0	0.0	0	
			Nov	265	0.0	30	0	0.0	0	
Volumes			Dec	290	0.0	31	0	0.0	0	
(Days in Me	onth) MCF	D BOPD	Total	3,186	0.0		1,073	0.0		
30 Day Avg	j 11	1 0.0		0,.00						
60 Day Avg	j 1 <sup>-</sup>	1 0.0							SAUCE CONTRACTOR	
3 Mo Avg	8	0.0						i) a Majarini		
6 Mo Avg	9	0.0						( Sepaja sekama jaka)		
12 Mo Avg	8	0.0					- 410/6	) On teles	ratas.	

### **Package Preparation Volume Data**

DPNo: 53417B SAN JUAN 28-5 UNIT 38A

Supt: 60

KEN RAYBON

FF: 335 LARY BYARS

MS: 378 GARY NELSON

Pipeline: WFS

Plunger: No

Dual: Yes

Compressor:

No

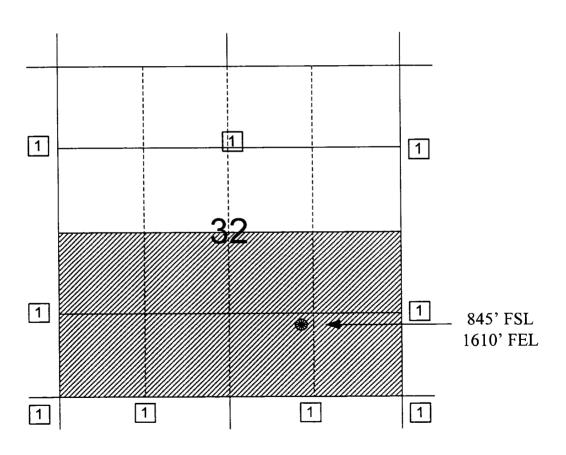
Ownership (No Trust)				Prior Year			<b>Current Year</b>		
	<u>Gas</u>	<u>Oil</u>				Days			<u>Days</u>
GWI:	73.1659%	73.1659%		MCF/M	<u>BOPM</u>	<u>On</u>	MCF/M	<u>BOPM</u>	<u>On</u>
GNI:	62.3562%	62.3562%	Jan	0	0.0	0	7,212	26.0	31
			Feb	11,198	108.0	24.9	5,326	5.0	28
Volumes			Mar	8,028	190.0	31	6,064	5.0	31
(Days On)	MCF	D BOPD	Apr	8,104	0.0	30	4,722	14.0	30
7 Day Avg	22	9 9.4	May	5,527	0.0	31	0	0.0	26.9
30 Day Av	g 22	2 0.9	Jun	6,191	0.0	30	0	0.0	0
60 Day Av	g 18	8 0.7	Jul	6,811	0.0	31	0	0.0	0
3 Mo Avg	18	1 0.3	Aug	4,972	10.0	31	0	0.0	0
6 Mo Avg	20	1 0.7	Sept	5,674	18.0	30	0	0.0	0
12 MoAvg	20	0 0.5	Oct	6,508	30.0	27	0	0.0	0
_			Nov	5,867	30.0	30	0	0.0	0
Volumes			Dec	7,199	44.0	31	0	0.0	0
(Days in M	onth) MCF	D BOPD	T-4-1	70.070	420.0		22 224	50.0	
30 Day Av	g 19	1 0.8	Total	76,079	430.0		23,324	50.0	
60 Day Av	g 17	4 0.6							-
3 Mo Avg	18	1 0.3						nt Form	
6 Mo Avg	19	9 0.7							
12 Mo Avg	19	7 0.5					EXILVO	lumes l	Jata 🖫

# BURLINGTON RESOURCES OIL AND GAS COMPANY San Juan 28-5 Unit #38A

## Offset Operator/Owner Plat

# Pictured Cliffs (SE/4) / Mesaverde (S/2) Formations Commingle Well

Township 28 North, Range 5 West



1) Burlington Resources

30		<sub>9</sub> 2 ●		235, 2 \$ \$ 50	8		229 \$\frac{1}{44}
31	51 <b>\$</b>	4 M	⊕ <sup>41</sup> ⇒ 240 2 Unit	11 38A	5 (83	2 3 11A \$	15
45A ⊕ 45 6 ★	59 62 149 \$\\$\\$\\$\\$	53A 数 53 数	61 ♥ 5 61A ★	52A <del>                                      </del>	4	60 ♥ 60A	25 <b>\$</b>
	69 76	150 ‡	176 <del></del>	₩ 64	A	2 ©	

PLH 5/7/98

SJ 28-5 Unit 38A Sec. 32, T28N, R5W Mesaverde/Pictured Cliffs

# 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.

(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:
  - 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:

- 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:

- 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.

- (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 J. LeMAY

Director

S E A L