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DATE N 12/15/99 SUSPENSE 1/4/00 2 ENGINEER DC LOOGED MV THE DHC	
ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -	
ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS	
Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling Storage Measurement X DHC CTB PLC PC OLS OLM
- [C] Injection Disposal Pressure Increase Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] X Notification 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

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

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

Print or Type Name

Signature

Regulatory/Compliance Administrator

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First St., Artesia, NM 88210 DISTRICT III Rd, Aztec, NM 87410 DISTRICT IV 2040 S. Pacheco, Santa Fe, NM 87505

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

Form C-107-A Revised August 1999

APPROVAL PROCESS: Administrative ____Hearing

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

EXISTING WELLBORE ____ YES ___X_ NO

	APPLICATION	FOR DOWNHOLE COMMINGLING
BURLINGTON RESOURCES OIL & GAS COMP	ANY	PO BOX 4289, FARMINGTON, NM 8749
Operator		Address
SAN JUAN 28-6 UNIT	138M	O 23-28N-06W
Lease	Well No.	Unit Ltr Sec - Twp - Rge

INGTON, NM 87499

UNIT	138M	O 23-28N-06W	
	Well No.	Unit Ltr Sec - Twp - Rge	
			Sna

County acing Unit Lease Types: (check 1 or more)

RIO ARRIBA

· · · · · · · · · · · · · · · · · · ·	Code7462 API NO		ralX, State, (and/or) Fee
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper- Zone BLANCO MESAVERDE – 72319	Intermediate Zone	Lower Zone 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 Gas & Oil - Flowing:	a. ^(Current) 582 psi (see attachment)		a. ^(Current) 1185 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Oriiginal) 1272 psi (see attachment)		b. ^(Oriiginal) 3273 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1237		BTU 1058
7. Producing or Shut-In?	SHUT-IN		SHUT-IN
	NO		YES
Production Marginal? (yes or no) If Shut-In, give date and oil/gas/ water rates of last production 	Date: N/A Rates:	Date: N/A 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 date andoil/gas/ water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A 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: % WILL BE SUPPLIED UPON COMPLETION	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? Yes _X_No (es _X_No Yes

11. Will cross-flow occur? _X_ Yes No If yes, are fluids compatible, will the formations not be damaged, will any crossflowed production be recovered, and will the allocation formula be reliable. _X_Yes ____ No (If No, attach explanation)

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-10696

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 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 N TITLE PRODUCTION ENGINEER DATE:

TYPE OR PRINT NAME DAN T. VOECKS

TELEPHONE NO. 505-326-9700

12/10/99

DISTRICT 1 . P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211—0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerais & Natural Resources Department

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

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

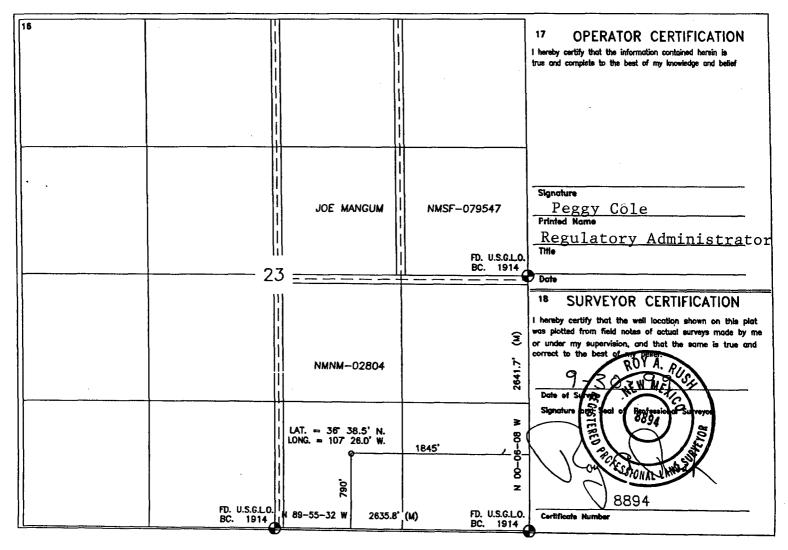
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	[*] Fool Nome	sin Dakota
30-039-	72319/71599	Blanco Mesaverde/Ba	
⁴ Property Code		perty Name	^e Well Number
7462		AN 28—6 UNIT	138M
7 OGRID No.	* Ope	rator Name	* Elevation
14538	BURLINGTON RESOURC	CES OIL & GAS COMPANY	6522'

¹⁰ Surface Location

Feet from the North/South line Feet from the East/West line UL or lot no. Section Township Ronge Lot idn County 6-W 790 1845 EAST **RIO ARRIBA** 0 28-N SOUTH 23 ¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Ranae County ¹² Dedicated Acres ¹⁵ joint or Infill ¹⁴ Consolidation Code 15 Order No. E/320

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

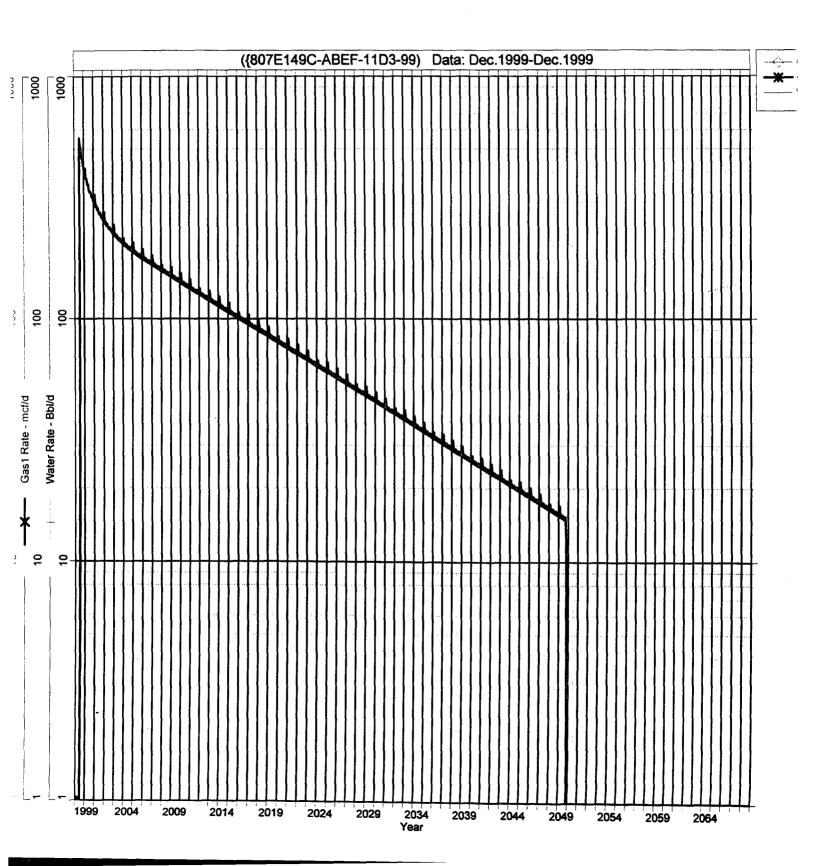


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San Juan 28-6 Unit #138M Expected Production Mesaverde Formation

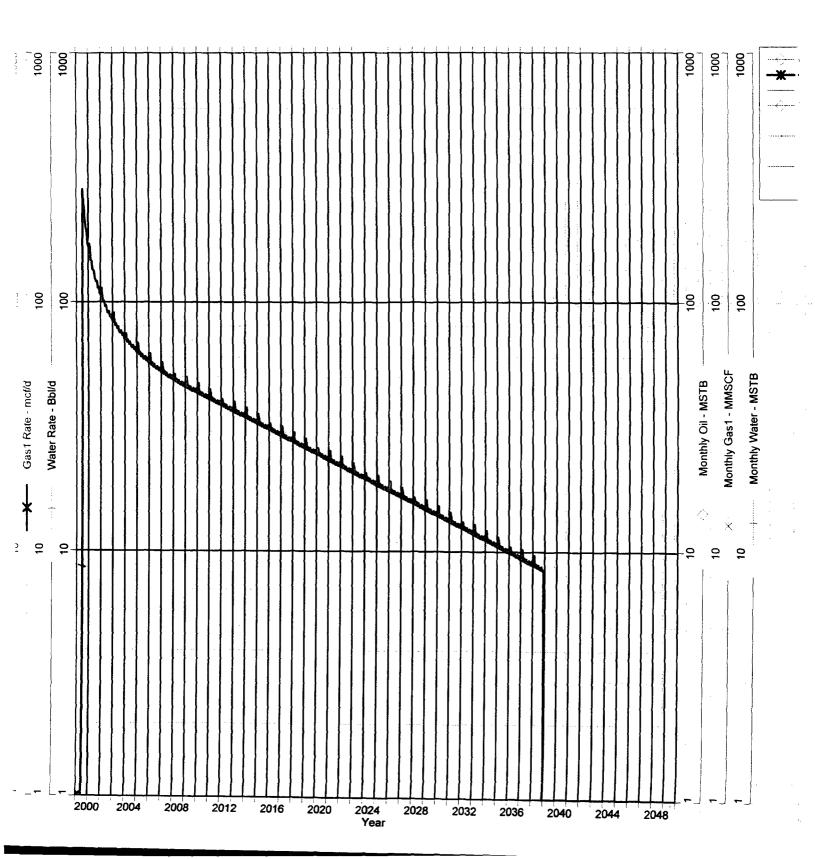
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San Juan 28-6 Unit #138M Expected Production Dakota Formation

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San Juan 28-6 Unit #138M 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 GRAVITY0.718COND. OR MISC. (C/M)C%N20.23%CO21.11%H2S0DIAMETER (IN)2DEPTH (FT)5583SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)502BOTTOMHOLE PRESSURE (PSIA)582.2	GAS GRAVITY0.607COND. OR MISC. (C/M)C%N20.13%CO21.44%H2S0DIAMETER (IN)2.375DEPTH (FT)7585SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1004BOTTOMHOLE PRESSURE (PSIA)1184.6
MV-Original	<u>DK-Original</u>
GAS GRAVITY0.718COND. OR MISC. (C/M)C%N20.23%CO21.11%H2S0DIAMETER (IN)2DEPTH (FT)5583SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1078BOTTOMHOLE PRESSURE (PSIA)1271.7	GAS GRAVITY0.607COND. OR MISC. (C/M)C%N20.13%CO21.44%H2S0DIAMETER (IN)2.375DEPTH (FT)7585SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2753BOTTOMHOLE PRESSURE (PSIA)3273.4

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Page No.: 1 Print Time: Mon Dec 06 07:16:36 1999 Property ID: 1886 Property Name: SAN JUAN 28-6 UNIT | 58 | 51871A Table Name: R:\RESERVES\GDPNOS\TEST.DBF

CUM GAS	
Mcf	Psi

06/30/56	0	1078.0	<u>San Jua</u>	an <u>28-6 Unit</u>
07/17/56	0	1077.0		
12/30/57	410000	784.0	Mesave	rde Offset
10/29/58	527000	868.0		
06/14/59	699000	794.0		
06/14/60	970000	704.0		
03/05/61	1135000	723.0		
05/29/62	1297000	762.0		
05/16/63	1419000	718.0		
05/26/64	1542000	730.0		
03/08/65	1675000	640.0		
04/12/66	1891000	665.0		
10/21/66	1999000	659.0		
03/22/67	2081000	651.0		
04/01/68	2267000	637.0	4	
05/15/69	2485338	604.0		
05/25/70	2623815	592.0		
05/04/71	2793195	539.0		
05/22/72	2979305	530.0	i kalana kalan	
08/21/73	3199680	484.0		
07/31/74	3382642	477.0		
08/17/76	3719962	478.0		
06/05/78	3981167	480.0		
10/03/80	4180516	369.0		
05/18/82	4249542	462.0		
10/20/86	4323313	461.0		
11/27/89	4365942	517.0		
09/04/91	4378167	517.0		
10/21/91	4380999	505.0		
05/03/93	4399045	502.0		

28-6 Unit #138M

Page No.: 1 Print Time: Mon Dec 06 07:16:31 1999 Property ID: 1732 Property Name: SAN JUAN 28-6 UNIT | 138 | 52199A Table Name: R:\RESERVES\GDPNOS\TEST.DBF

--DATE-- ---CUM_GAS-- M_SIWHP

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08/03/67	0	2753.0
11/17/67	52000	1651.0
04/01/68	96000	1437.0
08/19/69	237000	990.0
05/25/70	291621	958.0
05/04/71	371786	844.0
09/12/72	460129	852.0
08/21/73	513540	949.0
06/24/75	594488	1177.0
06/01/77	680966	1212.0
06/07/79	778923	1020.0
04/21/81	856611	970.0
09/22/83	920201	1214.0
06/07/85	975490	1028.0
10/15/88	1049306	1322.0
06/08/90	1103328	1252.0
07/01/92	1174464	1004.0

San Juan 28-6 Unit #138M

Dakota Offset

San Juan 28-6 Unit #138M Mesaverde / Dakota 28N – 6W – 23

^{N¥ 403} ⊗124 7 184∰ ^{©12}		NM 305 NM 305 5568 NM 136 689	15 NM 305 83117 10 10 138 80 154	NM 305 402 564 NM 305 138 569 56 NM 138 269 138 138 138	T10. 20 NM 305 SBID -12
S.4. 220-6 l/mit № 4.03	<u>S.1. 28−5 Unit</u> NH 66332,22	Ne 138 5.4 28-6 Unit 632,22 46 123 1237 253	5.4. 27-5 Unit NM 6832,22 689 ^{47A} 695 121 121	<u>S.J. 28-6 (but)</u> Nii 6528,22 @5 60 60 50A 83	<u>5.4 28-6 Unit</u> NM 305 ⊕ ⁷¹ ⊕ ^{57A} 106 ∰
	17 	16	12 D PA'87-₩3 ₩ ⁴⁷ ∰ ^{46A}	14 @ ⁵⁴	ИМ 6552 ИМИ675613 ИМ 6552 75 6 100 714 (ИНРС)
S. <i>i. 28-6 Upti</i> NW 808 NN 6833.22 (972 145 (972 145	<u>S.J. 29-6 (на)</u> мы 5833,22 4439 253 221 253 127 253	<u>S.J. 29-6 Unit</u> Hil 6633,22 80639 125	<u>S.J. 22-6 Unn</u> NV 5633,22 62 103 (19) (19) (19) (19) (19) (19) (10) (10) (10) (10) (10) (10) (10) (10	S.J. 28-6 Unit NM 6616 NM 2308 NM 6616 S6 13883	<u>S.J. 28-5 Unit</u> 194 6756 194 6551 994 655 838 656 839
. 19 68 ⁵⁰ 83 ¹⁶⁰	20 143 @8 ⁴⁴⁴		6 UNI27 S∰2 ²⁴ ⊛ ⁶²⁴	107 78 ∰3 ∰3525	152 152 152 152 153 154 155 155 155 155 155 155 155
S.d. 28-6 Unit NN 508 1600 165 1600 35 83 35 93 M	S.J. 28-6 Unit NM 6552 Noi 10221 (MESA) 7 1564 17 1564 552	S.J. 28-6 Unit Nil 10222 148 1554 (TENRECO) 233 30	S.J. 29-6 Ubit NM 10223,22 NH 10222,22 149 1544		S.d. 28-6 Unit (MESA) 153M & 10-114 88 & 0-24 0 PA't
	29 51 556 1477M 5.u. 28-6 Unit	28 Hill 6594 50 155 S.J. S.J. 20 5.J. 20 6 Unit	27 9 8 8 8 8 8 8 8 154 5.4 28 6 8 8 8 8 8 8 8 8 8 8 8 8 8	26 *******************************	25 153 ∯ 254 ∰ SJ. 22-6 (Juli
NM 4852 (RASIN) 210M 213 252 € M 52	NM 10222,22 NM 10278 (TENECO) (TENECO) 34 132M 25 130	NM 10218 (TENNECO) 32 (TENNECO) 32	154W NW 10218 888 (TENECO) 9 151 888	NG 20 ⁻⁰ 0/07 NN 6563,22 1504 NN 6563,22 N 65	NBJ 6613 NBJ 6613 1411 NB 6613 1453 NB 6613 NBJ 6513 NB 6613
31 17,553,210 9 213⊌ 554 28−6 (shi)	132 NB 120224,22 (TENNECO) 130M 33 33 33 5.4 28-6 Unit		34	5. 4. 28 − 6 Uni?	HAI 5612, 22 36 HAI 5610 -

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:

CASE NO. 11628 Order No. R-10696 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 28-6 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.