DISTRICT I

P.O. Box 1980, Hobbs, NM 98241-1980

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

DISTRICT III

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

urlington Resources Oil & Gas (Box 4289, Farmington, NM 8749	9			
_{erator} nn Juan 28-6 Unit	171M J 24-27N-06W		Rio Arriba			
RID NO14538 Property Code		.tr Sec - 1v/p - Rge Spaci Issigned Federalx,	County ing Unit Lease Types: (check 1 or more) State			
he following facts are submitted in upport of downhole commingling:	Upper Zone	Intermediate Zone	Lawer Zone			
Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599 will be supplied upon completion			
. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion					
Type of production (Oil or Gas)	gas	DECEIVED	gas			
. Method of Production (Flowing or Artificial Lift)	flowing	M JAN 2 7 1998 ヴ	flowing			
. Bottomhole Pressure Dil Zones - Artificial Lift: Estimated Current	(Current) a. 612 psi (see attachment)	OIL CON. DIV.	a. 1077 psi (see attachment)			
as & Oil - Flowing: Measured Current Il Gas Zones: stimated or Measured Original	(Original) b. 1271 psi (see attachment)	b. පැමැමේ	b. 3243 psi (see attachment)			
. Oil Gravity (□API) or Gas BTU Content	BTU 1227		BTU 1049			
. 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	Date:	Date: n/a Rates:			
ots: For new zones with no production history, pplicant shall be required to attach production stimates and supporting data	Rates:	Rates:	naus.			
If Producing, give data and il/gas/water water of recent test within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:			
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: %	Oil: Gas: %	Oil: Gas: %			
. If allocation formula is based u attachments with supporting data). Are all working, overriding, and ro	a and/or explaining method and pr yalty interests identical in all come g. and royalty interests been notifi	ningled zones?Ye ed by certified mail?Ye	d upon some other method, su uired data. s _x_No			
Have all offset operators been giv	ren written notice of the proposed No If yes, are fluids compati					
be recovered, and will the allocat Are all produced fluids from all co			<i>,</i>			
Will the value of production be dec	creased by commingling?Ye	s _X_ No				
If this well is on, or communitized Management has been notified in v	l with, state or federal lands, eithe writing of this applicationX_	r the Commissioner of Public Lands Yes No	s or the United States Bureau of I			
		s)Reference OrderR-10696				
* Production curve for e * For zones with no pro * Data to support alloca * Notification list of all o	be commingled showing its spaceach zone for at least one year. (If duction history, estimated production method or formula. If set operators, king, overriding, and royalty interests data or documents required	ing unit and acreage dedication. not available, attach explanation.) tion rates and supporting data. ests for uncommon interest cases. to support commingling.				

SIGNATURE

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

TITLE: Production Engineer DATE: 1/26/98

Oistrict I PO Box 1980, Hopps, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-1 Revised February 21, 19 Instructions on ba

District II PO Drawer OD. Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 208B Santa Fe, NM 87504-2088

Submit to Appropriate District Off: State Lease - 4 Cop: Fee Lease - 3 Cop:

District III 1000 Alo Brazos Ad. Aztec. NM 87410

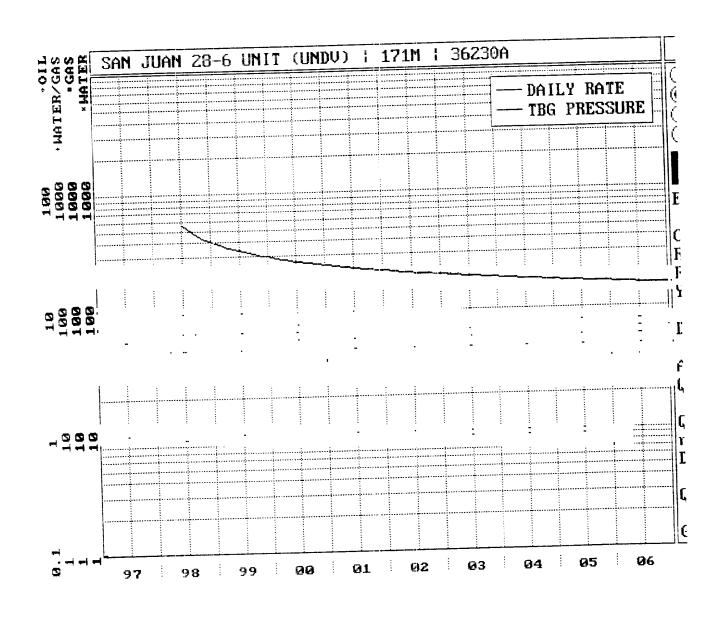
AMENDED REPOR

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

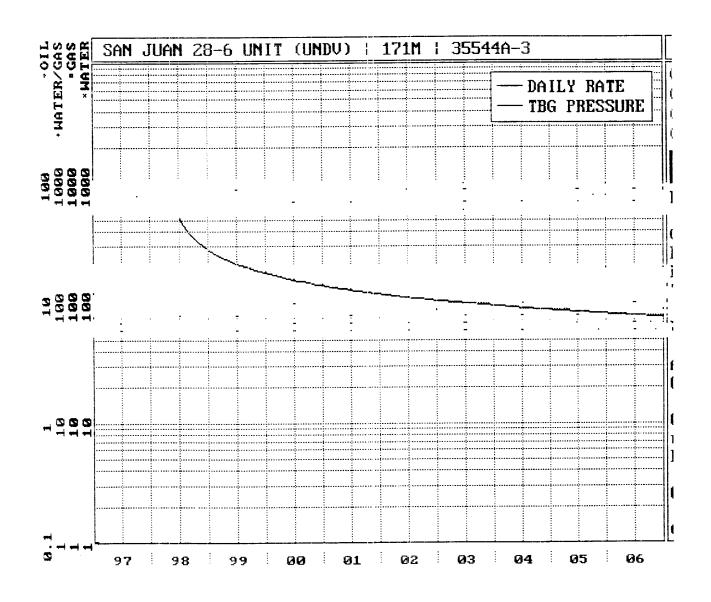
WELL LOCATION AND ACREAGE DEDICATION PLAT

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San Juan 28-6 Unit #171M Expected Production Curve Blanco Mesaverde



San Juan 28-6 Unit #171M Expected Production Curve Basin Dakota



SJ 28-6 Unit #171M

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 GRAVITY COND. OR MISC. (C/M) %N2 %CO2 0.77 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 612.0	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)	0.614 C 0.23 1.41 0 1.5 7477 60 198 0 914				
MV-Original	<u>DK-Original</u>					
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San Juan 28-6 # 171M Mesait rde Offset

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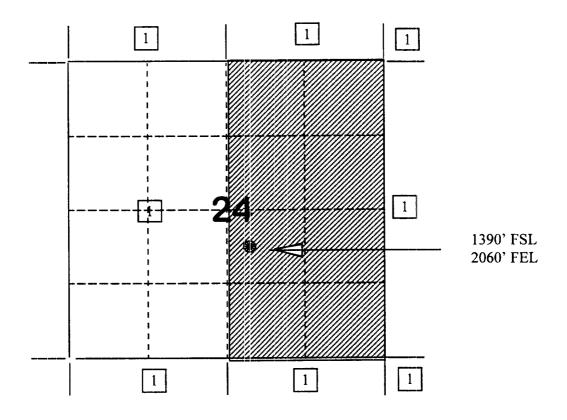
San Juan 28% #171m Dakota CASet

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #171M

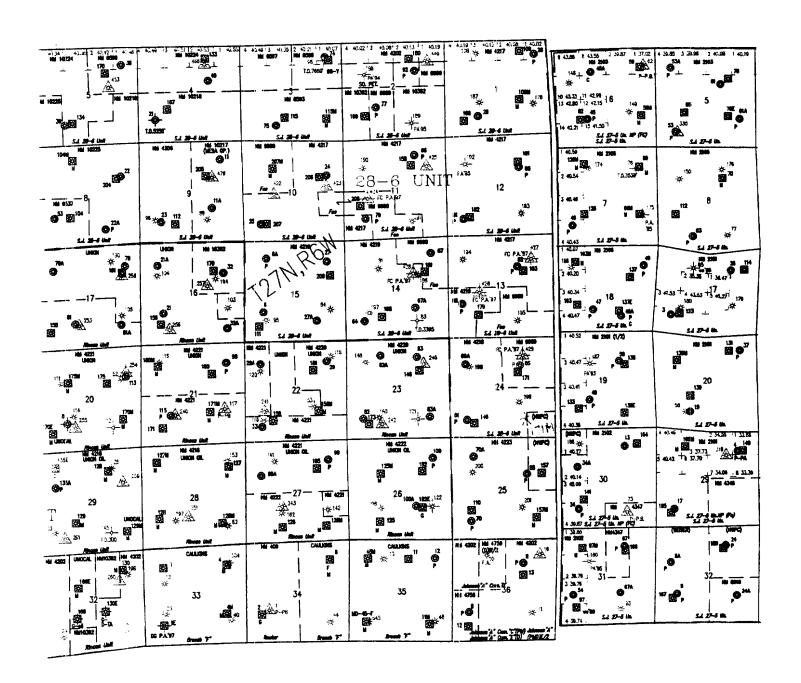
OFFSET OPERATOR/OWNER PLAT Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 6 West



1) Burlington Resources

San Juan 28-6 Unit #171M Blanco Mesaverde / Basin Dakota 27N-06W-24



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;
 - 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 complicit 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 comminging 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.