DISTRICT I

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

DISTRICT II

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

Burlington Resources Oil & Gas Company

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE __ YES __x_ NO

PO Box 4289, Farmington, NM 87499

Operator	Addre	38	
San Juan 28-6 Unit	102M O 26	-28-6 Rio Arrib	oa e e e e e e e e e e e e e e e e e e e
Lease	Well No. Unit L	tr Sec - Twp - Rge	County
OGRID NO14538 Property C	ode 7462 APL NO 30-6	• •	ease Types: (check 1 or more) . State . (and/or) Fee
JGRID NO14538 Froperty C	008 ATT NO00		
The following facts are submitted in support of downhole commingling:	lipper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319	ECEIVED	Basın Dakota - 71599
Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	DEC 3 1 1997	will be supplied upon completion
3. Type of production (Oil or Gas)	gas (0	ol con. div.	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	DIST. 3	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 724 psi (see attachment)	a.	a. 1128 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or	(Original) b. 1309 psi (see attachment)	b.	b. 3238 psi (see attachment)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1206		BTU 1124
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:
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion
10. Are all working, overriding, a If not, have all working, over Have all offset operators bee	porting data and/or explaining and royalty interests identical in riding, and royalty interests be an given written notice of the pi	method and providing rate providing rate properties. In all commingled zones? In notified by certified mail? In proposed downhole commingling.	Yesx_No Yesx_No g? _x_YesNo
11. Will cross-flow occur? _x_ flowed production be reco explanation)			
12. Are all produced fluids from			
13. Will the value of production b14. If this well is on, or commu- States Bureau of Land Manag	nitized with, state or federal l	ands, either the Commission	er of Public Lands or the Unite
States Bureau of Land Manag 15. NMOCD Reference Cases for	Rule 303(D) Exceptions: ORD	ER NO(S)Reference Orde	r R-10696 attached
16. ATTACHMENTS: * C-102 for each zon * Production curve f * For zones with no p * Data to support all * Notification list of * Notification list of * Any additional stat	e to be commingled showing it or each zone for at least one ye production history, estimated p ocation method or formula. all offset operators. working, overriding, and royalt tements, data, or documents re	s spacing unit and acreage de ear. (If not available, attach e production rates and supporting ty interests for uncommon inte equired to support comminglin	edication. xplanation.) ng data. erest cases. g.
I hereby certify that the info		d complete to the best of (my knowledge and belief.
SIGNATURE Sean Warker	tonTITLE_F	Production Engineer	_DATE12/23/97
TYPE OR PRINT NAME Se	ean Woolverton TELEPH(ONE NO. (505) 326-97	'00

District & PO Best 1789, Hubbs, NM 88241-1980 District (I PO Drawer DD. Artesia. NM 88211-0719 Olatrica III 1000 Rie Brazes Rd., Aztez, NM 27418

State of New Mexico Energy, Minoran & Natural Resources Department

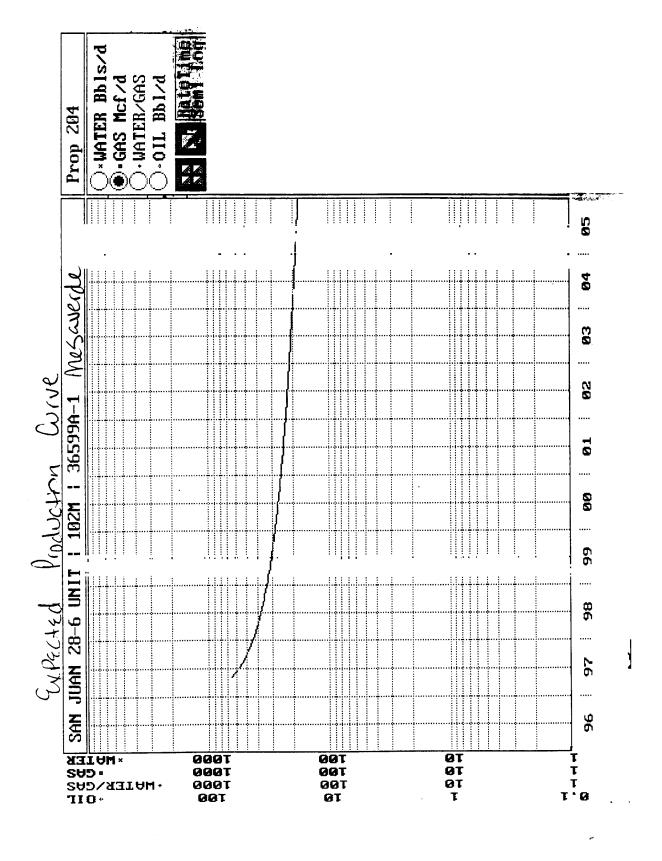
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

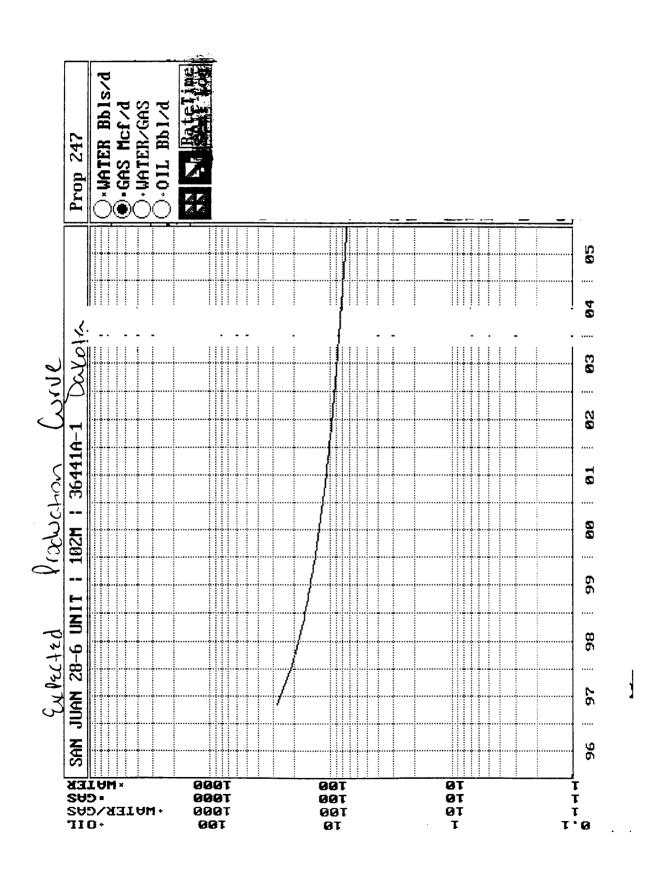
Form C-102 Revised February 21, 1994 instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lanse - 3 Copies

District &V PO Box 2008, Name Fr. NM 87584-2008			☐ AME	INDED REPORT	
WELL LOCATION AND ACREAGE DEDICATION PLAT					
API Number	1 Post Code		' Post Name		
30-039-	72319/71599 R1:	anco Mesaverde/ Name	Bacin Pakota	Wd Number	
7462	San Juan	28-6 Unit	1	102M _	
OGRID Ne.	BURLINGTON RESOURCES	OIL & GAS COM	PANY	6697	
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_	Bottom Hole Location I	North/South time Feet 6	rom the East/West time -	County	
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SJ 28-6 Unit #102M

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 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) T23.9	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.07 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1127.6		
MV-Original	DK-Original		
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Print Time: Mon Dec 22 13:22:32 1997
  Property ID: 10537
Property Name: SAN JUAN 28-6 UNIT | 4 | 51855A-1
                                              SJ 28-6 Unit
#102M
MV Offset
   Table Name: K:\ARIES\RR98PDP\TEST.DBF
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Page No.: 8

Print Time: Mon Dec 22 13:22:40 1997

Property ID: 1832

Property Name: SAN JUAN 28-6 UNIT | 113 | 50754A-1

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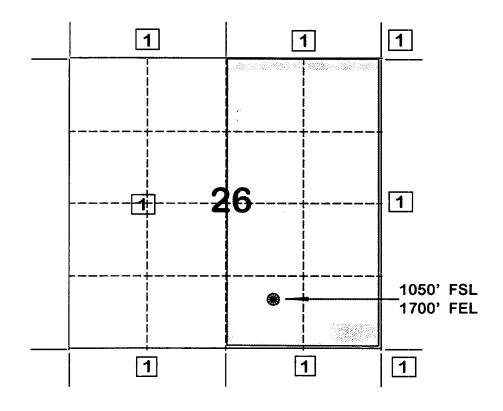
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BURLINGTON RESOURCES OIL AND GAS COMPANY

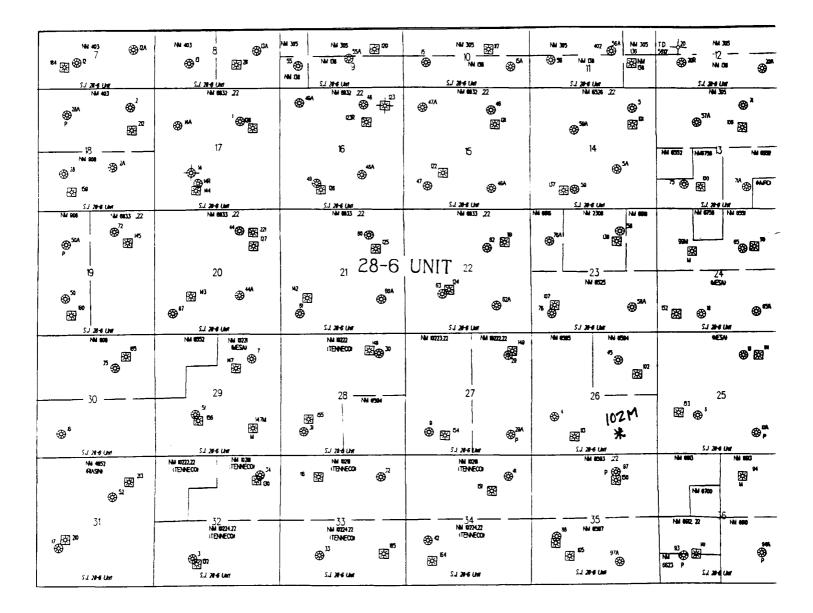
San Juan 28-6 Unit #102M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company



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 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.