DISTRICT I

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

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

OIL CONSERVATION DÍVISION

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

APPROVAL PROCESS:

PO Box 4289, Farmington, NM 87499

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

Burlington Resources Oil & Gas Company

APPLICATION FOR DOWNHOLE COMMINGLING

X Administrative ___Hearing

EXISTING WELLBORE _ YES _x_NO

perator SAN JUAN 28-6 UNIT	Addre 142M	0 21-28N-6W	Rio Arriba
1000	Well No. Unit L	tr Sec - Twp - Rge Spacing Ur	County hit Lease Types: (check 1 or more)
GRID NO14538 Property C	ode7462 API NO30	0-039-not assigned _Federa	alX, State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	
1. 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	1 001 - 7 WE. 12	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	OIL GRADE BATT	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 514 psi (see attachment)	a.	a. 1019 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1288 psi (see attachment)	b.	b. 3196 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1101		BTU 1037
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 setimates 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	Oil: Gas: %	Oil: Gas: %	Oil: Gas: %
(total of %'s to equal 100%)	will be supplied upon completion		will be supplied upon completion
attachments with supporting d D. Are all working, overriding, and If not, have all working, overrid Have all offset operators been Have all offset operators Mill cross-flow occur? _x_ production be recovered, and	lata and/or explaining method a d royalty interests identical in a ling, and royalty interests been given written notice of the prop Yes No If yes, are fluids will the allocation formula be re	ind providing rate projections or it commingled zones? notified by certified mail? cosed downhole commingling? compatible, will the formations eliablex YesNo (If N	Yesx_NoYesx_No _x_YesNo not be damaged, will any cross-fo, attach explanation)
Are all produced fluids from allWill the value of production be	•		
4. If this well is on, or communitiz Land Management has been no	ed with, state or federal lands, tified in writing of this application	either the Commissioner of Pub onX_Yes No	lic Lands or the United States Bur
5. NMOCD Reference Cases for R			
6. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pr * Data to support alloo * Notification list of all * Notification list of we * Any additional states	to be commingled showing its s each zone for at least one yea oduction history, estimated pro- ation method or formula. I offset operators. orking, overriding, and royalty i ments, data, or documents requ	spacing unit and acreage dedica r. (If not available, attach explai oduction rates and supporting da interests for uncommon interest uired to support commingling.	tion. nation.) ita. cases.
hereby certify that the inform	nation above is true and co	omplete to the best of my kn	owledge and belief.
SIGNATURE Seun (1/12	herton_TITLE_Pro	oduction EngineerD	ATE <u>10/02/97</u>
YPE OR PRINT NAME Sea			

District I PO Box 1980. Hobbs. NM 88241-1980

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

District III 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

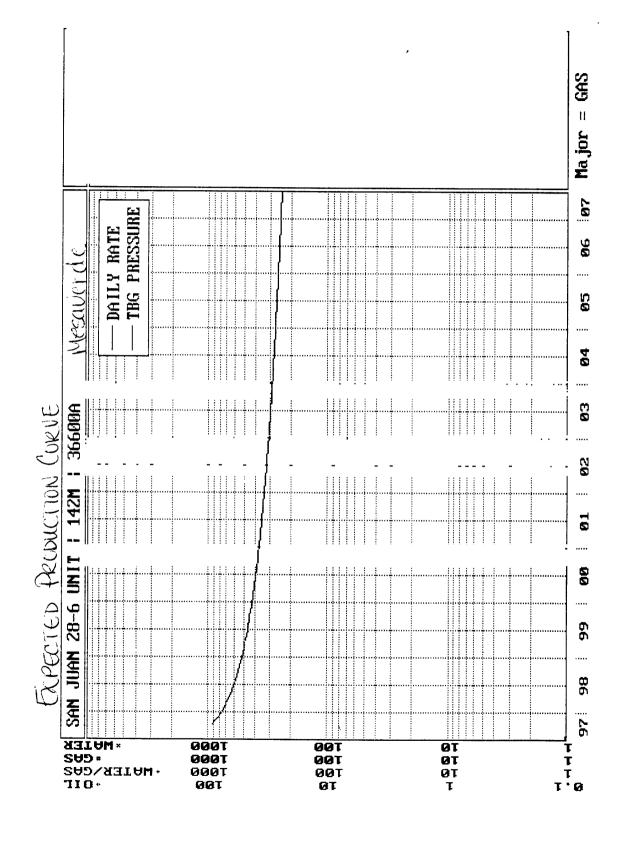
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

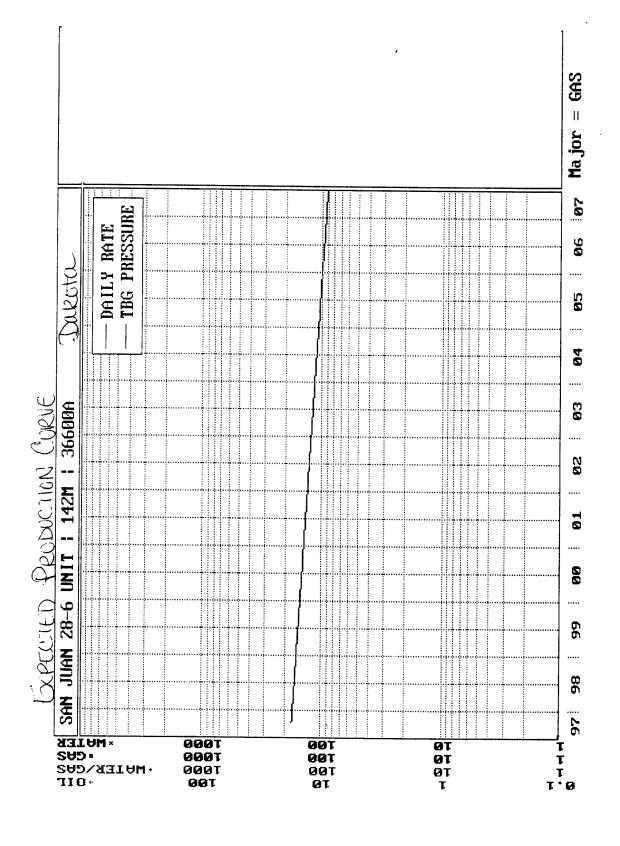
Revised February 21. Instructions on
Submit to Appropriate District O
State Lease - 4 Cc
Fee Lease - 3 Cc

AMENDED REPO

Form (

			WELL		TION AND	ACRE	AGE DED	ICA	TION PL	_AT		
.,	API Numbe	st.		*Pool C	Code		-		Pool Nar	ne		
'Property					Prop	erty Nam V 28-					We	ell Number 142M
1 DIRĐO	10 .		BURL	NGTON	N RESOUR		IL & GAS	5 C	YNAPMC			levation 6461
UL or lot no.	Section	Township			¹⁰ Sunfac		ation					
F	21	28	Range 6	Lot Idn	Feat from to		North		eet from the 2525	East/Nes WES		RIO ARRIE
UL or lot no.	Section	Township	Bottom Range	Hole Lot Idn	Location Feet from tr		ifferent		om Surf set from the	ace East/Wes	t line	County
12 Dedicated Acres	13 Joint o	r Infall 14	Consolidation	Code 15 (Order No.				· · · · · · · · · · · · · · · · · · ·			
					Jrosen No.							
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5280.00°	NMSF-	-07919 2525	3 .0287	21 21				5280.00	Signature Signature Printed Title Date 18 SURVE I hereby certifica	Name Name EYOR C fy that the won field not and best of my be C. ED M. F. Profess Z. 685	ERTIF ell location of actual that the sales.	TICATI In shown on the surveys nade tone as true a



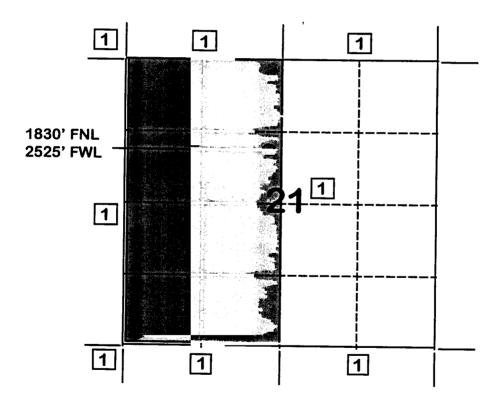


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #142M 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 #142M

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Dakota
DK-Current
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<u>DK-Original</u>
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Page No.: 1

Page No.: 3

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Property ID: 1842

Property Name: SAN JUAN 28-6 UNIT | 126 | 52204A-1 San Juan 28-6 Unit

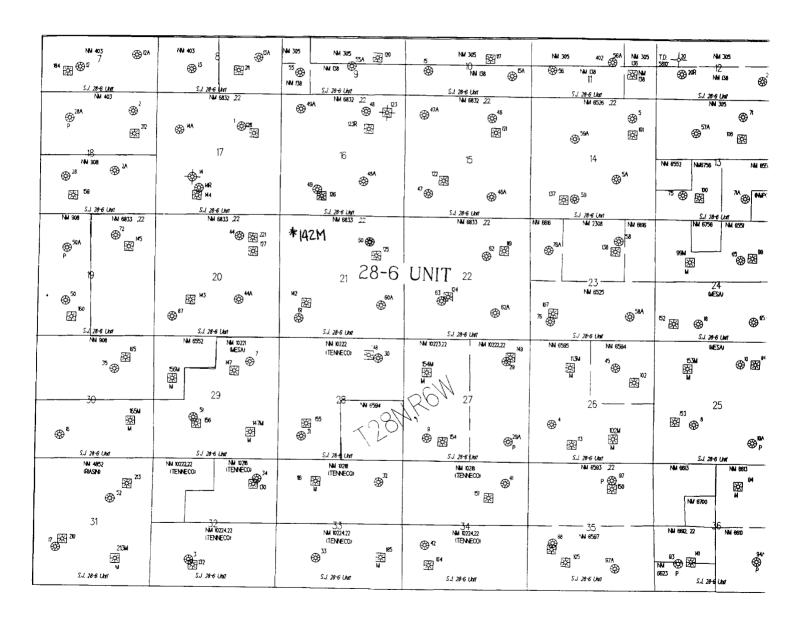
142 M

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

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05/23/85 07/08/88 06/05/90 07/01/92	740853 814628 878588 934728	895.0 1052.0 882.0 866.0-CUYVENT

San Juan 28-6 Unit #142M Mesaverde / Dakota 21-28N-06W



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;
 - 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 "marginai".
- (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.