DISTRICT I

Operator

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

DISTRICT II

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

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

Burlington Resources Oil & Gas Company

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING

Address

1 32-28N-6W

130M

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

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

APPROVAL PROCESS:

X Administrative ___Hearing

Rio Arriba

EXISTING WELLBORE

__YES _xNO PO Box 4289, Farmington, NM 87499

SAN JUAN 28-6 UNIT	130M I 32-	-28N-6W	Rio Arriba
0410	Well No. Unit I	tr Sec - Twp - Rge Spacing Un	County hit Lease Types: (check 1 or more)
OGRID NO14538 Property C	Code7462 API NO. <i>30</i> -	·• -	, State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	The state of the s	
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	many of the first state of the	will be supplied upon completion
3. Type of production (Oil or Gas)	gas	DEGELVED	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	11 0CT - 7 1097 D	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 827 psi (see attachment)	ellas, DIV.	a. 1105 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1263 psi (see attachment)	b.	b. 3126 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1183		BTU 1109
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			Sata: pla
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/s Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: % will be supplied upon completion	Oil: Gms: %	Oil: Gas: % will be supplied upon completion
9. If allocation formula is based submit attachments with supp 10. Are all working, overriding, an If not, have all working, overridave all offset operators been 11. Will cross-flow occur? production be recovered, and	d royalty interests identical in a ding, and royalty interests been given written notice of the pro	all commingled zones? n notified by certified mail? posed downhole commingling?	YesxNo x_YesNo
production be recovered, and 12. Are all produced fluids from al			
13. Will the value of production be			·
 If this well is on, or communi Bureau of Land Management h NMOCD Reference Cases for f 	as been notified in writing of th	is applicationX_Yes N R NO(S). R-10696	ò
16. ATTACHMENTS: * C-102 for each zone * Production curve fo * For zones with no p * Data to support allo * Notification list of a * Notification list of w * Any additional state	e to be commingled showing its or each zone for at least one yet reduction history, estimated pr ocation method or formula. Il offset operators. orking, overriding, and royalty ements, data, or documents red	spacing unit and acreage dedica ar. (If not available, attach expla oduction rates and supporting di interests for uncommon interest puired to support commingling.	ation. nation.) ata. cases.
I hereby certify that the infor	mation above is true and c	omplete to the best of my kr	nowledge and belief.
SIGNATURE Sean With	lestorTITLE_Pr	oduction EngineerD	ATE
TYPE OR PRINT NAME Sea	an C. Woolverton TEL	EPHONE NO. <u>(505) 326</u> -	9700

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer OD, Artens, NM 88211-0719

1000 Rio Brazos Rd., Aztes, NM 87410

State of New Mexico
Energy, Mineral & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form t Revised February 21.

Instructions on

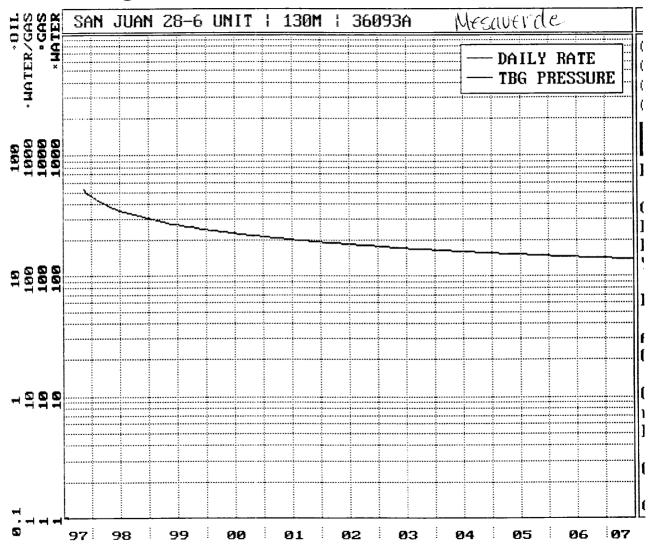
Submit to Appropriate District (
State Lease - 4 C
Fee Lease - 3 C

AMENDED REI

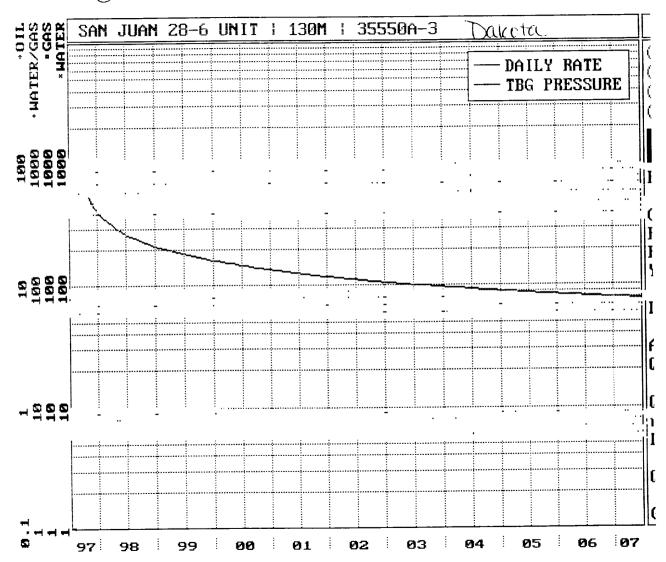
District IV PO Box 2008. Santa Fe. NM 87504-2088

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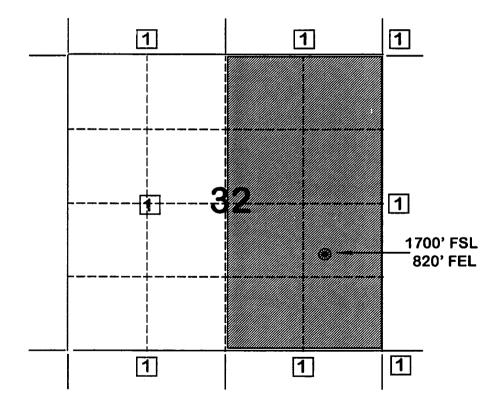


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #130M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company

San Juan 28-6 Unit #130M

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

Mesaverde	Dakota			
MV-Current	DK-Current			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0.692 0.23 0.23 0.84 %H2S 0 0 1.375 5744 5744 5137 60 BOTTOMHOLE TEMPERATURE (DEG F) 0 SURFACE PRESSURE (PSIA) 826.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.18 %CO2 1.17 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1104.7			
MV-Original	<u>DK-Original</u>			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) 137	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.17 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) 0.649 0.649 0.649 1.50 60 60 60 60 60 60 60 60 60 60 60 60 60			

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Print Time: Mon Sep 22 13:57:34 1997

Property ID: 10535

Property Name: SAN JUAN 28-6 UNIT | 3 | 48964A-1

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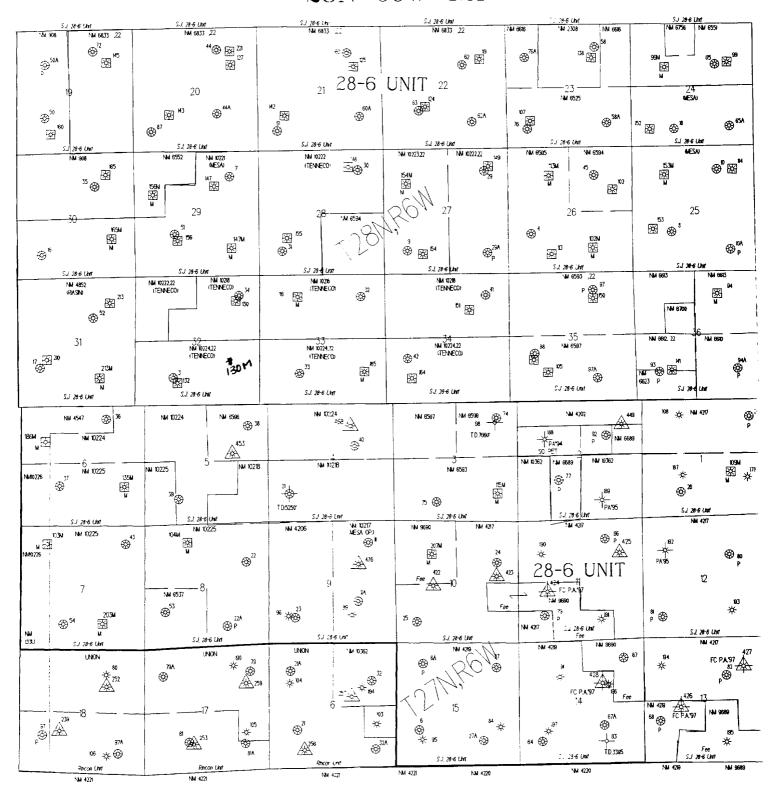
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San Juan 28-6 Unit #130M Mesaverde / Dakota 28N-06W-32I



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 "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 commingings 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.