

<u>DISTRICT I</u>

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

<u>DISTRICT II</u>

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

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

TYPE OR PRINT NAME: Wayne Fletcher

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 Form C-107-A New 3-12-96

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

X YES NO

an Juan 28-	6 Unit			180	B	Ø 02	-27N-06	w			Rio Arriba
ise				Well No.			tr Sec - Tv				County
										Spacing U	nit Lease Types: (check 1 or more)
GRID NO.	14538	Property (Code	7462	API NO	. 30-03	9-20615	Fede	ral x	State	(and/or) Fee
he following frupport of down	nhole com		Blanco	1 1 Z	pper one is. rde - 72319				ediate		Basin Dakota - 71599
. Top and Bott Pay Sectio		tions)	will be s	upplied	upon com	pletion				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	vili be supplied upon completic
3. Type of prod (Oil or Gas			gas					~18 ¹		9	as
I. Method of Pr (Flowing o		_ift)	flowing				a P	SON SON	1 8 100		lowing
5. Bottomhole I Oil Zones - Arti Esti		ent	(Curre a. 722 p	nt) si (see	attachmen	;)	1111	HON	GO 100	9	. 1122 psi (see attachment)
Gas & Oil - Flow All Gas Zones: Estimated or Me	Measured		(Original) b. 1215		attachme	nt)	b.	<i>O</i> /1/2	D.C.F.	b	. 3228 psi (see attachment)
6. Oil Gravity (A Gas BTU C	API) or		BTU 11:	34	ų					E	STU 1082
. Producing or	Shut-In?	· ·	shut in							s	hut in
Production Mar	ginal? (yes	or no)	no							У	es
If Shut-In and last productio		er rates of	Date: n/a Rates:				Date: Rates:				ato: n/a ates:
ote: For new zones wi pplicant shall be requi- slimates and supportin	ith no production red to attach pro ig data	history, duction									
If Producing, (oil/gas/water wa within 60 days)	give data a lter of rece	nd nt test	Date: n/a Rates:				Date: Rates;	1 10110		1 -	ate: n/a ates:
Fixed Percen Formula -% (total of %'s	for each z	one	Oil: 9		s: % n completion		Oil:	Gas:	%		il: Gas: %
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Are all produc											
Will the value	of produc	tion be dec	reased b	y comm	ningling?	Ye	s _X_ No	(If Ye	s, attach e	explanati	on)
If this well is Land Manage	on, or co ment has	mmunitized been notifie	with, stand	ate or fo	ederal land is applica	ds, eith tion>	er the Co (Yes _	mmissio No	ner of Pub	olic Land	s or the United States Burea
NMOCD Refe	rence Case	s for Rule	303(D) Ex	ception	s: ORDE	R NO(S)F	R-10696	attache	ed .	
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TITLE: Production Engineer

TELEPHONE NO.:

DATE: 11-15-99

(505) 326-9700

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazus Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
ubmit to Appropriate District Office

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

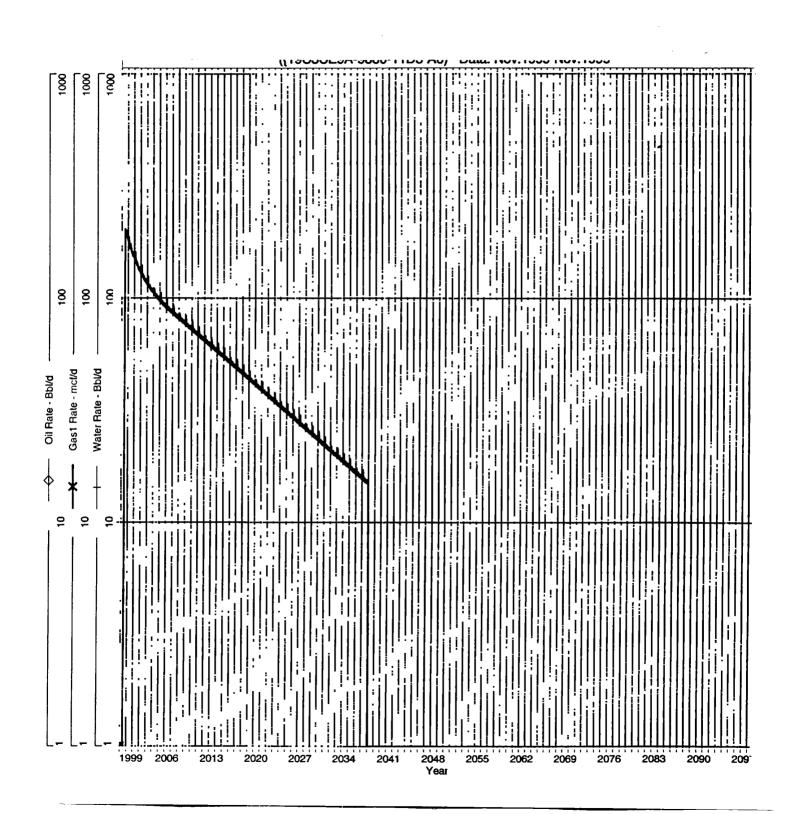
Submit to Appropriate District Office State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

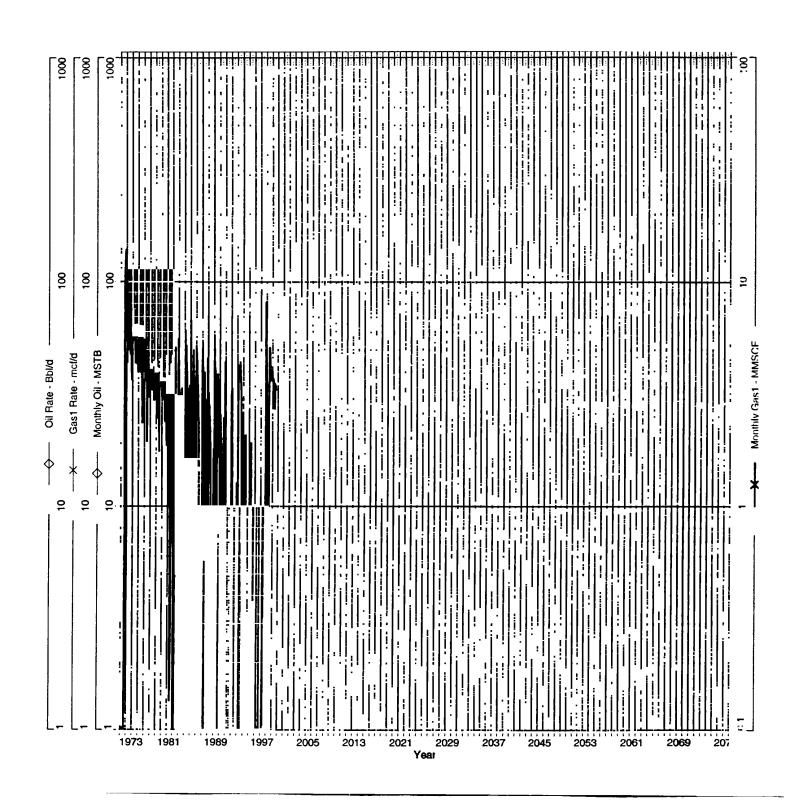
WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Numb	er	$\overline{}$	² Pool Code					' Pool N	.me			
30-039-20615			7221	72319/71599			Blanco Mesaverde/Basin Dakota						
Property		<u> </u>	1/231	9//10				er	de/Basi	in Dak		Well Number	
7462				'Property Name San Juan 28-6 Unit							18		
	N.		-				Nume						
14538 Burl			lingt	on Res	source	S C)il & Gas C	om	pany		6331 GR		
					10 Sur	face	Location						
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San Juan 28-6 Unit #180 Expected Production Mesaverde Foramtion



San Juan 28-6 Unit #180 Actual Production Dakota Foramtion



Page No.: 1
Print Time: Tue Nov 09 15:46:49 1999
Property ID: 5
Property Name: SAN JUAN 28-6 UNIT | 92 | 53445B
Table Name: C:\CMNG\TEST.DBF

DATE	CUM_GAS Mcf		
06/03/59 06/23/59 10/22/59 06/14/60 10/14/60 12/20/61 06/04/62 10/21/63 12/02/64 05/03/65 06/07/66 05/25/67 05/25/67 05/27/68 07/28/70 06/21/71 06/07/72 01/20/74 11/20/74 10/27/76 05/02/78 04/18/86	0 0 28000 64000 78000 114000 131000 175000 199000 208000 241000 266000 290000 342480 366569 390956 433144 451469 496675 532481 656725	1058.0 1057.0 824.0 770.0 768.0 775.0 750.0 730.0 771.0 640.0 701.0 704.0 668.0 632.0 599.0 599.0 599.0 599.0	San Juan 28-6 Unit #180 Mesaverde Offset
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Page No.: 1
Print Time: Tue Nov 09 15:46:54 1999
Property ID: 6
Property Name: SAN JUAN 28-6 UNIT | 180 | 44068A
Table Name: C:\CMNG\TEST.DBF

DATE	CUM_GAS Mcf		San Juan 28-6 Unit #180
06/28/73	0	2707.0	Existing Dakota
09/14/73	10128	1662.0	
10/11/74	103851	1262.0	
09/04/75	163168	913.0	
10/27/76	241270	826.0	
02/12/78	288618	849.0	
06/06/79	346484	802.0	
11/04/81	432324	849.0	
02/17/84	484873	905.0	
05/20/85	516888	912.0	
10/13/88	594131	1250.0	
05/29/90	638504	950.0	

SJ 28-6 Unit #180

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) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 721.9	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.16 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1122.0				
MV-Original	DK-Original				
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San Juan 28-6 Unit #180 Blanco Mesaverde / Basin Dakota 27N – 6W – 02G

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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 comminglings is unnecessary and is an excessive burden on the applicant;
- 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.