DISTRICT

P.O. 8ox 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

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

Burlington Resources Oil & Gas Company

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

PO Box 4289, Farmington, NM 87499

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

APPLICATION FOR DOWNHOLE COMMINGLING

X Administrative ___Hearing **EXISTING WELLBORE**

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693 2040 S. Pacheco Santa Fe, New Mexico 87505-6429

__YES __x_ NO

perator	Addre		
an Juan 28-6 Unit	186M E 06	-27 -6 Ri	o Arriba
850	Well No. Unit L	tr Sec - Twp - Rge Specing	County Unit Lesse Types: (check 1 or more)
GRID NO14538 Property (Code 7462 API NO. 30-0		, State(and/or) Fee _X
		Intermediate	Lower
The following facts are submitted in support of downhole commingling:	Upper Zone	Zone	Zone
Pool Name and Pool Code	Blanco Mesaverde - 72319	DECEMBE	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	1 1997 U	will be supplied upon completion
3. Type of production (Oil or Gas)	gas	CON CON DIV	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	0117 CAM BIA	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 583 psi (see attachment)	a .	a. 745 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1265psi (see attachment)	b.	b. 3168 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1187		BTU 1119
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/n Rates:
tote: 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:
8. 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
O. Are all working, overriding, and If not, have all working, overrid Have all offset operators been at the second secon	royalty interests identical in all of ing, and royalty interests been no given written notice of the propositions. Yes No If yes, are fluids commingled zones compatible with decreased by commingling? zed with, state or federal lands, notified in writing of this application.	commingled zones? stifled by certified mail? sed downhole commingling? compatible, will the formations nablex YesNo (If No, in the each other?x_ Yes eith each other? _x_ Yes either the Commissioner of PubonX_ Yes No NO(S)Reference Order R-106	planation) plic Lands or the United States Bu 96 attached
hereby certify that the inform			
	etaTITLE_Produ		
TYPE OR PRINT NAME <u>Sear</u>			

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

PO Box 2008. Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerais & Natural Resources Department

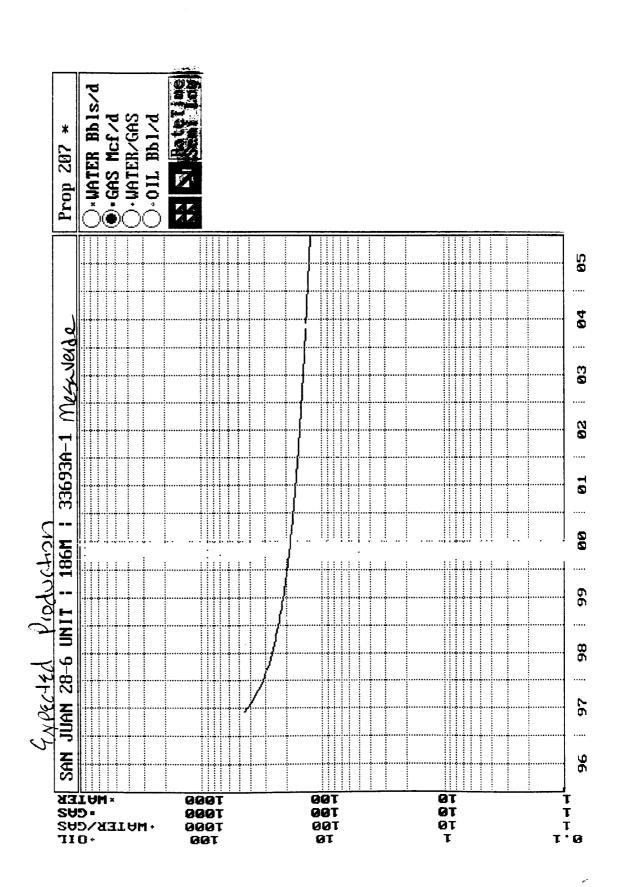
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Form C-10. Revised February 21, 199-Instructions on bac.

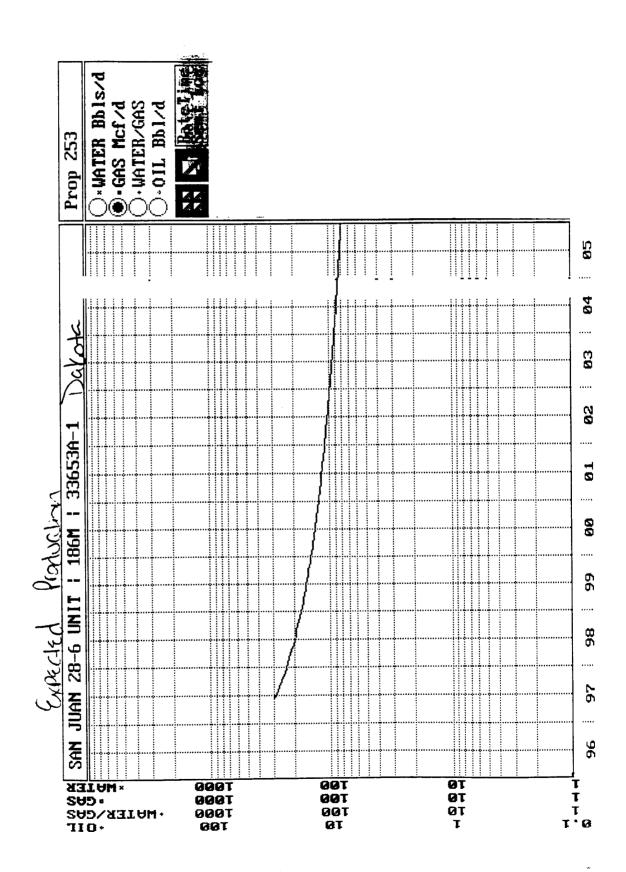
Submit to Appropriate District Offic

State Lease - 4 Copie Fee Lease - 3 Copie

☐ AMENDED REPOR

		WE	LL LO	CATION	I AND AC	REAGE DEDI	CAT	TON PL	ΑT		
1	API Numbe	er .	¹ Pool Code			¹ Pool Name					
30-039-	30-039-		72319		72319/71599 Blanco Mesaverde		Blanco Mesaverde/Basin Dakota				
' Property	Code				' Propert	y Name					Well Number
7462				Sa		8-6 Unit					186M
'o grid :	No.	В	'Open BURLINGTON RESOURCE				COM	IPANY			6145
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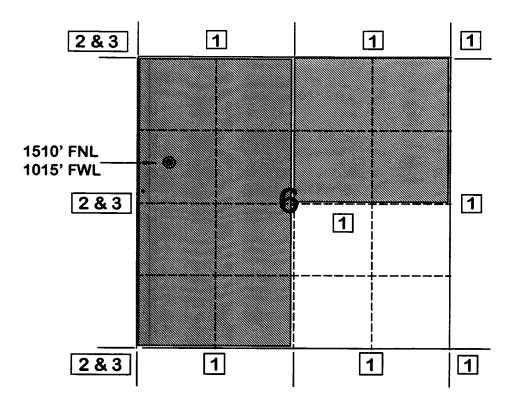


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #186M OFFSET OPERATOR \ OWNER PLAT

Mesaverde (W/2)/Dakota (N/2) Formations Commingle Well

Township 27 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company Attn: Bruce Zimney P.O. Box 800 Denver, CO 80201

3) Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.686
COND. OR MISC. (C/M)	С
%N2	0.41
%CO2	1.03
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5194
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	512
BOTTOMHOLE PRESSURE (PSIA)	582.5

SAN JUAN 28-6 UNIT #36 MESAVERDE - CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.686
COND. OR MISC. (C/M)	С
%N2	0.41
%CO2	1.03
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5194
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1097
POTTOMINOLE PRESSURE (POLA)	10010
BOTTOMHOLE PRESSURE (PSIA)	1264.6

SAN JUAN 28-6 UNIT #36 MESAVERDE - ORIGINAL

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.623
COND. OR MISC. (C/M)	
%N2	0.21
%CO2	1.08
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7640
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	632
BOTTOMHOLE PRESSURE (PSIA)	745.0

SAN JUAN 28-6 UNIT #186 DAKOTA -CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.623
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	1.08
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7640
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2642
BOTTOMHOLE PRESSURE (PSIA)	3167.6

SAN JUAN 28-6 UNIT #186 DAKOTA -ORIGINAL

Page No.: 1

Print Time: Thu Mar 27 07:16:39 1997

Property ID: 4011

Property Name: SAN JUAN 28-6 UNIT | 36 | 49403A-1 Mescalerde Offset
Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS	M SIWHP	
11/04/55	0	1097.0	<- Original
11/21/55	0	1102.0	J
08/24/56	134000	858.0	
04/24/57	293000	759.0	
09/06/58	533000	687.0	
08/22/59	647000	642.0	
05/22/60	725000	668.0	
05/21/61	819000	654.0	
09/10/62	927000	661.0	
10/07/63	997000	634.0	
02/12/64	1016000	663.0	
01/29/65	1091000	652.0	
07/27/66	1202000	609.0	
01/27/67	1242000	600.0	
02/15/68	1322000	587.0	
08/04/69 06/12/70	1429000 1500741	565.0	
05/12/70	1581653	540.0 497.0	
07/03/72	1690980	447.0	
04/25/73	1762298	424.0	
05/22/74	1857833	437.0	
04/09/76	2003758	425.0	
04/12/78	2151058	359.0	
05/12/80	2278289	415.0	
06/04/82	2389060	433.0	
06/28/84	2464864	462.0	
03/03/87	2545951	492.0	
10/07/89	2 62 3366	462.0	
06/17/91	26 7 2786	500.0	
07/16/91	2674507	512.0	< Current

Property ID: 1888

Property Name: SAN JUAN 28-6 UNIT | 186 | 44525A-1 Salvata Offset

Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS			
02/05/73	0	2642.0		

02/05/73	0	2642.0 e Original
08/21/73	48639	1705.0
09/23/74	175797	786.0
05/05/75	230900	714.0
07/05/77	360589	618.0
06/28/79	431295	597.0
07/13/81	517762	600.0
10/12/83	599158	659.0
06/27/85	660825	611.0
11/19/85	675946	1262.0
10/05/88	755986	692.0
05/28/92	866292	632.0 - WYPV)+

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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:

- c) 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;
- 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.