ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSH	EET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
[PC-P	: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] whole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] cool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[A]	PPLICATION - Check Those Which Apply for [AT]
Chec [B]	k One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC CONCERVATION DIVISION CLL CONCERVATION DIVISION
[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2] NOTIFICA [A]	TION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners
[B]	Offset Operators, Leaseholders or Surface Owner
[C]	☐ Application is One Which Requires Published Legal Notice
[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
[F]	☐ Waivers are Attached
[3] INFORMA	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
and Regulations of administrative appro	I, or personnel under my supervision, have read and complied with all applicable Rules the Oil Conservation Division. Further, I assert that the attached application for eval is accurate and complete to the best of my knowledge and where applicable, verify RI, ORRI) is common. I understand that any omission of data, information or

Peggy Bradfield Regulatory/Compliance Administrator

Print or Type Name Signature Title

Date

notification is cause to have the application package returned with no action taken.

BURLINGTON RESOURCES

SAN JUAN DIVISION

March 12, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re:

San Juan 28-6 Unit#205M

1070'FNL, 1520'FWL, Section 9, T-27-N, R-6-W, Rio Arriba County, NM

API # 30-039-not yet assigned

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is a new drill Mesa Verde/Dakota well for the 1997 Program.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Expected production curve for both Mesa Verde and Dakota;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10696 dated November 12, 1996.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

xc: Bureau of Land Management

DISTRICT I

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

DISTRICT II

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

DISTRICT III

SIGNATURE_

1000 Rio Brazos Rd, Aztec, NM 87410-1693 APPLICATION FOR DOWNHOLE COMMINGLING

State of New Mexico Energy, Minerals and Natural Resources Department

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

EXISTING WELLBORE

__ YES ___ NO

urlington Resources Oil & (Sas Company		PO Box 4289, Farmington, NM 874			
erator an Juan 28-6 Unit	205M	Address C 09-27-6	• · · · · · · · · · · · · · · · · · · ·			
S e	Well No.	Unit Ltr Sec - Twp - Rge	County Spacing Unit Lease Types: (check 1 or more)			
RID NO14538 Property (Code _7462 API NO)_30-039-not assigned	FederalX, State(and/or) Fee			
he following facts are submitted is support of downhole ommingling:	Upper Zone	20	nediate Lower Zone			
. Pool Name and Pool Code	Blanco Mesaverde - 7		Basin Dakota - 71599			
. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion			
. Type of production (Oil or Gas)	gas		gas			
. Method of Production (Flowing or Artificial Lift)	flowing		flowing			
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 753 psi (see attacl	nment) a.	a. 1117 psi (see attachment)			
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1165 psi (see attac	chment) b.	b. 3130 psi (see attachment)			
5. Oil Gravity (°API) or Gas BTU Content	BTU 1207		BTU 1100			
. 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:			
lote: For new zones with no production history, pplicant shall be required to attach production stimates 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:			
3. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon comp	Oil: Ga	Oil: % Gas: % will be supplied upon completion			
If allocation formula is based attachments with supporting da	upon something other ata and/or explaining m	than current or past production	duction, or is based upon some other method, projections or other required data.			
. Are all working, overriding, and If not, have all working, overridi Have all offset operators been o						
. Will cross-flow occur? _x_ production be recovered, and v	Yes No If yes, ar	e fluids compatible, will t la be reliablex Yes	the formations not be damaged, will any crossNo (If No, attach explanation)			
. Are all produced fluids from all o	• ,	•	_x_Yes No			
. Will the value of production be d			• •			
	, ,		nissioner of Public Lands or the United States No			
. NMOCD Reference Cases for Ru . ATTACHMENTS:		ORDER NO(S)Reference one year. (If not available, ated production rates and a. royalty interests for uncomnts required to support co	,			

Sean Westerton___TITLE_Production Engineer_____DATE 3/12/97___

TYPE OR PRINT NAME __ Sean Woolverton____ TELEPHONE NO. (505) 326-9700___

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 Bug 2088, Santa Fc. NM 87504-2088

API Number

State of New Mexico
Energy, Minerate & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

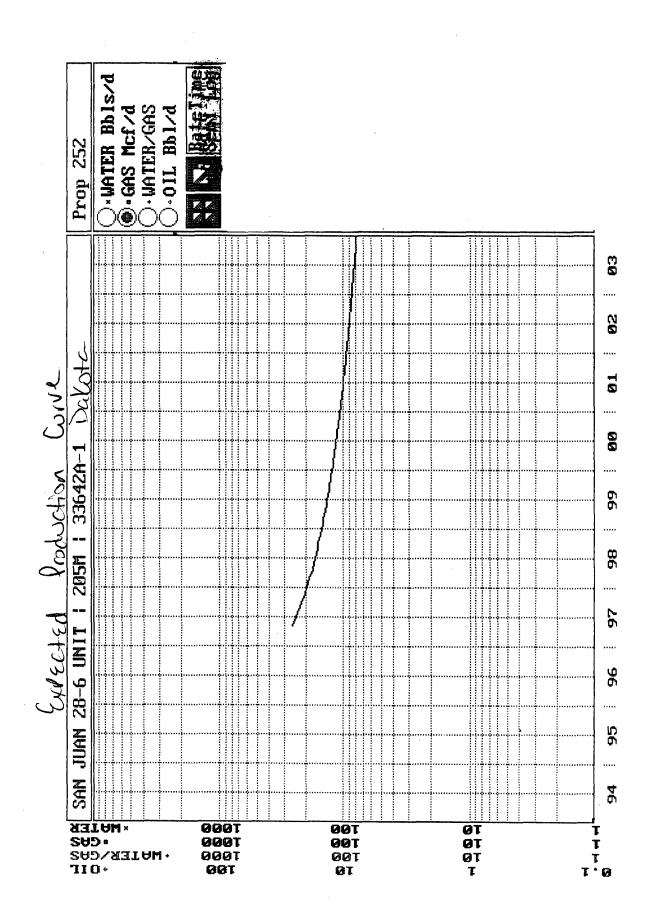
Submit to Appropriate District Office

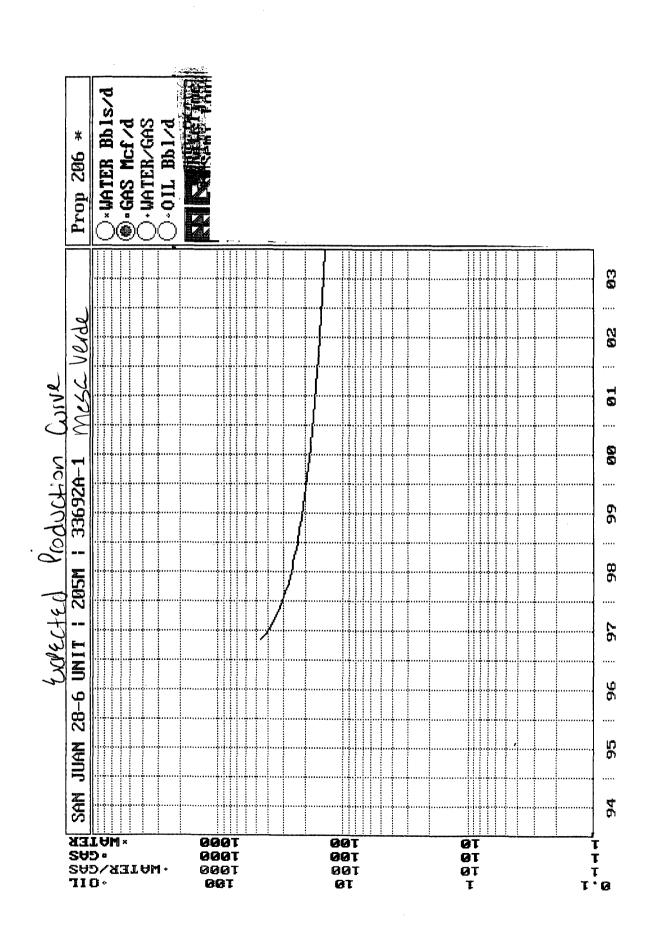
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-03	30-039- 72319/71599 Blanco Mesaverde/Basin Dak 'Property Code 'Property Name					Dako Dako	ta				
* Property (· Well Number				
7462	7462 San Juan 28-6 Unit						205M				
' OGRID :	No.					tor Name					*Elevenios
14538			BURLI	NGTON	RESOURC	CES OIL &	GAS C	OMPANY			6468'
					10 Surfa	ce Location					
UL or lot so.	Section	Township	Range	Lot Ida	Feet from th	North/South	ine F	eet from the	East/Wes	t tine	Соцыу
	9	27-N	6-W		1070	North		1520	We	st	R.A.
			11 Bott	om Hole	Location	n If Different	From	Surface			
UL or lot so.	Section	Township	Range	Lot Ida	Feet from th	e North/South	ine F	eet from the	East/Wes	t line	County
MV-W/320 DK-W/320 NO ALLOV			essetidation SSIGNE		rder No.	TION UNTIL A	LL IN	TERESTS H	AVE BE	EN COI	NSOLIDATED
						BEEN APPRO					
[G			-52z	9.18'				17 OPER	RATOR	CERT	TIFICATION
5F-		049-0		9-	SF-0	79049	3 47'	Signature Peggy Printed Nate Regul Title	Brad:	field Admi	nistrator
25.5 24.	079	049-0		54.9z'			O'C'S	I hereby cert was plotted for under my correct to the Date of Surv Signature and	rify that the wrom field not supervision. a bast of my to the control of the con	reil locations ses of actua and that s	TIFICATION In sharm on this plat In surveys mode by me the same is true and



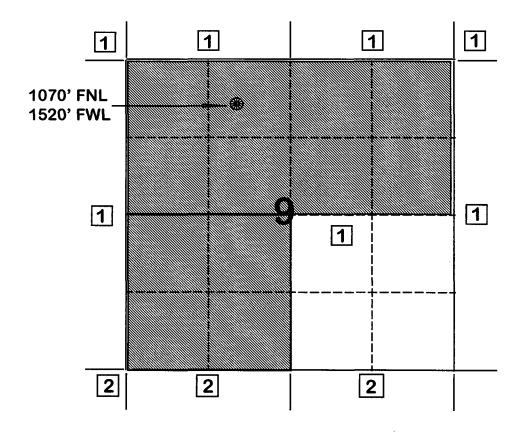


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #205M 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 Successor to Meridian Oil Inc.
- 2) UNOCAL Corp. 1004 North Big Spring, Suite 300 Midland, TX 79702

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND. OR MISC. (C/M)	C
%N2	0.28
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7628
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	
SURFACE PRESSURE (PSIA)	936
BOTTOMHOLE PRESSURE (PSIA)	1117.1

SAN JUAN 28-6 UNIT #205 DAKOTA - CURRENT

VERSION 1.0 3/13/94

GAS GRAVITY	0.643
COND. OR MISC. (C/M)	<u>C</u>
%N2	0.28
%CO2	1.13
%H2S	
DIAMETER (IN)	1.5
DEPTH (FT)	7628
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2590
DOTTOMINOLE PRESSURE (POLA)	0.00.0
BOTTOMHOLE PRESSURE (PSIA)	3129.6

SAN JUAN 28-6 UNIT #205 DAKOTA - ORIGINAL

VERSION 1.0 3/13/94

GAS GRAVITY	0.707
COND. OR MISC. (C/M)	С
%N2	0.37
%CO2	0.72
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	654
ROTTOMHOLE PRESSURE (RSIA)	752.4
BOTTOMHOLE PRESSURE (PSIA)	/53.4

SAN JUAN 28-6 UNIT #11 MESAVERDE -CURRENT

VERSION 1.0 3/13/94

GAS GRAVITY	0.707
COND. OR MISC. (C/M)	<u> </u>
%N2	0.37
%CO2	0.72
%H2S	
DIAMETER (IN)	2
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1002
BOTTOMHOLE PRESSURE (PSIA)	1164.9

SAN JUAN 28-6 UNIT #11 MESAVERDE -ORIGINAL

Page No.: 1

Print Time: Tue Mar 04 08:51:19 1997

Property ID: 10388

Property Name: SAN JUAN 28-6 UNIT | 11 | 49547A-1 ST ZG-6 # 205M
Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP

Mesaverde Offsed Mcf. Psi 1002.0 original 0 11/30/54 06/08/56 0 989.0 11/16/56 14000 955.0 04/24/57 25000 849.0 09/06/58 63000 1027.0 09/22/59 935.0 84000 10/06/60 110000 869.0 09/13/61 860.0 131000 04/09/62 138000 875.0 08/02/63 159000 829.0 05/08/64 843.0 173000 05/03/65 189000 843.0 06/07/66 206000 839.0 06/02/67 225000 799.0

05/27/68 240000 798.0 11/11/68 251000 718.0 10/16/70 645.0 293932 07/07/71 306442 682.0 05/30/72 313893 754.0 12/10/80 436409 691.0 05/18/82 459649 672.0 07/26/84 676.0 482348

09/18/86 505484 671.0 10/08/89 694.0 530254

04/15/91 545305 642.0

654.0 <- Wilen+ 10/14/91 549228

Page No.: 1

Print Time: Tue Mar 04 08:29:59 1997

Property ID: 1891
Property Name: SAN JUAN 28-6 UNIT | 205 | 44079A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

ST 78-6 # WSM Dakota Offset

DATE	CUM_GAS Mcf	M SIWHP	
			-0-1061
05/30/79	0	2590.0	original
05/31/79	0	2591.0	
09/04/79	58862	1618.0	
06/10/80	177216	1014.0	
08/03/81	302784	920.0	
06/02/83	422207	1023.0	
12/02/85	564092	936.0	
10/03/88	673663	915.0	
04/23/90	736681	943.0	560 AZ
03/29/92	806193	936.0 <	- wilenz

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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.