BURLINGTON RESOURCES

SAN JUAN DIVISION

February 13, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 FEB 1 9 1997 DIV.

Re:

San Juan 29-7 Unit #92A

860'FNL, 1815'FWL Section 16, T-29-N, R-7-W, Rio Arriba County, NM

API #30-039-25613

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 well is a new Mesa Verde/Dakota well that is being drilled and completed in 1997.

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 curves;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Reference Order #R-10697 issued November 7, 1996 attached.

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

encs.

XC:

Bureau of Land Management

State Land Office

DISTRICT I

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

<u>DISTRICT II</u>

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

DISTRICT III

SIGNATURE

TYPE OR PRINT NAME _James A. Smith _

1000 Rio Brazos Rd, Aztec, NM 87410-1693

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

__YES __X_NO

Burlington Resources Oil &	Gas Company	Address	PO Box 4289, Farmington, NM 8749
erstor an Juan 29-7 Unit	92A	C 16-29-7	Rio Arriba
250	Well No.	Unit Ltr Sec - Twp - Rge	County
GRID NO14538 Property	Code7465 API	NO30-039-25613Federal	Spacing Unit Lease Types: (check 1 or more) _x, Statex, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Unper Zons	Intermedi Zone	ate Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 7	2319	Basin Dakota - 71599
Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	DECES	will be supplied upon completion
Type of production (Oil or Gas)	gas	FFR 1 9 139	gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 508 psi (see attach	nment) DIN 3	a. 823 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	(Original) b. 1276 psi (see attac	chment) b.	b. 3331 psi (see attachment)
Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content	BTU 1198		BTU 1148
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 	Oate: 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			
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: 9	Gas: %
(total of %'s to equal 100%)	will be supplied upon com		will be supplied upon completion
attachments with supporting	data and/or explaining i	method and providing rate proj	on, or is based upon some other method, su jections or other required data. Yesx_NoYesx_No ningling?x_YesNo
		tical in all commingled zones? sts been notified by certified in the proposed downhole comm a fluids compatible, will the fo	
production be recovered, and 2. Are all produced fluids from a			rmations not be damaged, will any cross-flo No (If No, attach explanation) x Yes No
Are all produced fluids from aWill the value of production be			
4. If this well is on, or communit	ized with, state or feder	ral lands, either the Commission is application. X Yes No	oner of Public Lands or the United States Bu
			e Order # R-10697 attached
6. ATTACHMENTS: * C-102 for each zon * Production curve * For zones with no p * Data to support all	e to be commingled sho or each zone for at leas production history, estin ocation method or form	owing its spacing unit and acre t one year. (If not available, at nated production rates and su ula. I royalty interests for uncommo tents required to support comm	age dedication. tach explanation.) oporting data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

TITLE_Production Engineer_____ DATE __2/13/97___

TELEPHONE NO. (505) 326-9700_

.6 .6 1988, Hubbs, NM 22241-1988 Art II .9 Drawer OD, Artesia, NM 22211-0719 Olstrect III 1008 Riu Brasse Ad., Amer. NM 27416 District IV

State of New Mexico Energy, Mineran & Natural Resources Department

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

Form C Revised February 21. Instructions on

Submit to Appropriate District C

State Lease - 4 C. Fee Lease - 3 C.

AMENDED REP

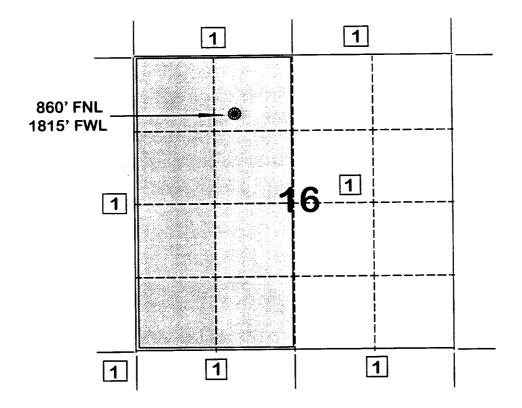
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BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 29-7 Unit #92A OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 29 North, Range 7 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

Page No.: 1 Print Time: Fri Jan 24 15:46:40 1997

Property ID: 2097
Property Name: SAN JUAN 29-7 UNIT | 129 | 1467-1 ST 59-7 #934 DK Offsc
Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS	M SIWHP Psi
09/20/85	0	2743.04 original
12/11/85	51031	1566.0
09/03/86	97694	1250.0
06/02/87	123427	1321.0
08/03/88	230968	796.0
04/04/90	335273	784.0
04/22/90	335273	765.0
04/29/92	429397	702.0
05/28/92	435433	690.0 Current

VERSION 1.0 3/13/94

GAS GRAVITY	0.663
COND. OR MISC. (C/M)	C
%N2	0.39
%CO2	0.33
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7555
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	690
,	,
BOTTOMHOLE PRESSURE (PSIA)	823.1

SAN JUAN 29-7 UNIT #129 DAKOTA - CURRENT

VERSION 1.0 3/13/94

GAS GRAVITY	0.663
COND. OR MISC. (C/M)	<u>c</u>
%N2	0.39
%CO2	0.33
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7555
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2743
	2224 0
BOTTOMHOLE PRESSURE (PSIA)	3331.0

SAN JUAN 29-7 UNIT #129 DAKOTA - ORIGINAL

Page No.: 1
Print Time: Fri Jan 24 15:51:10 1997

Property Name: SAN JUAN 29-7 UNIT | 91 | 69355-1 57 79-7 #970 MV Offset Table Name: K:\ARIES\RR97PDP\TEST.DBF

DATE	CUM_GAS	M SIWHP	
10/09/52 10/06/53 06/16/54 08/24/55 10/15/56 10/15/56 10/16/57 03/30/58 03/29/59 09/06/60 03/28/61 03/13/62 02/12/63 07/16/64 02/25/65 02/28/66 03/03/67 03/05/68 05/27/69 08/18/70 03/30/71 06/12/72 07/09/73 08/21/74 04/20/76 05/16/78 07/18/80 05/19/82 09/19/84 10/23/89 02/20/91 07/10/91	0 36000 77000 154000 225000 289000 320000 385000 467000 550000 550000 654000 686000 743000 803000 872000 953771 1121786 1169585 1276918 1364557 1460887 1609048 1798246 1962922 2073183 2151008 2270862 2452441	1095.0 946.0 744.0 915.0 938.0 677.0 894.0 804.0 938.0 717.0 768.0 900.0 878.0 830.0 844.0 822.0 783.0 771.0 653.0 772.0 749.0 683.0 592.0 540.0	
06/01/93			← current

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VERSION 1.0 3/13/94

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GAS GRAVITY	0.703
COND. OR MISC. (C/M)	С
%N2	0.24
%CO2	0.9
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5403
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	443
BOTTOMHOLE PRESSURE (PSIA)	507.8

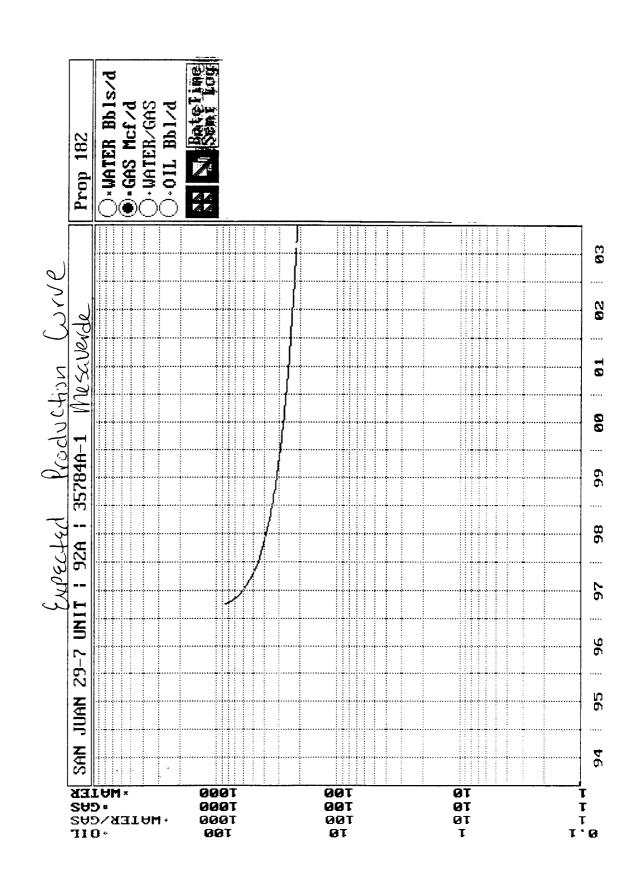
SAN JUAN 29-7 UNIT #91 MESAVERDE - CURRENT

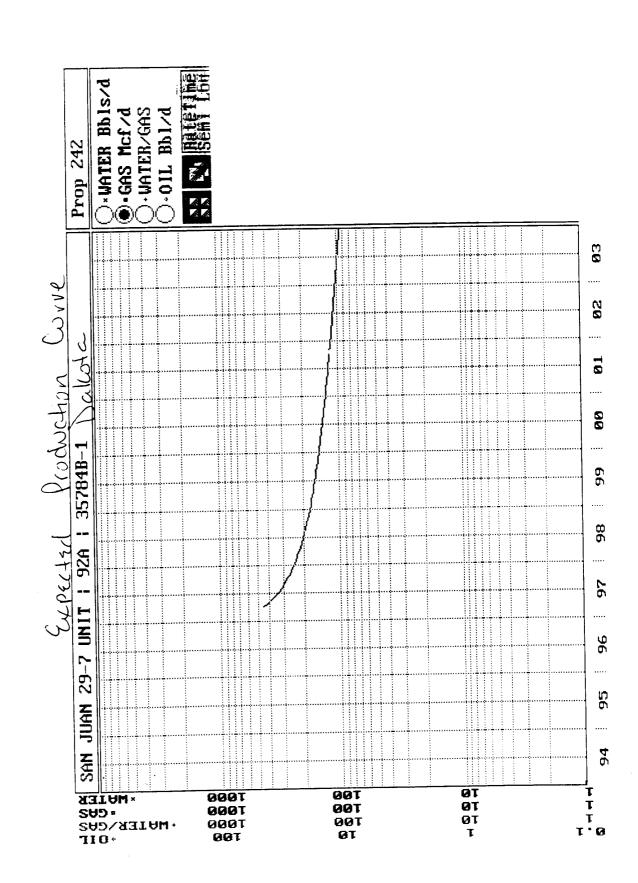
VERSION 1.0 3/13/94

GAS GRAVITY	0.703
COND. OR MISC. (C/M)	С
%N2	0.24
%CO2	0.9
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5403
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1095
,	
BOTTOMHOLE PRESSURE (PSIA)	1276.3

SAN JUAN 29-7 UNIT #91 MESAVERDE - ORIGINAL

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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. 11629 ORDER NO. R-10697

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 29-7 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 8th 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 29-7 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 29-7 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 29-7 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 245 MMCFG and 76 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 218 MCFGD and 238 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 29-7 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 29-7 Unit, the applicant presented engineering evidence and testimony which indicates that:
 - a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development was approximately 3,209 psi and 1,148 psi, respectively; and,
 - b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations is approximately 952 psi and 655 psi, respectively.

- 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 29-7 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 29-7 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 29-7 Unit, San Juan County, New Mexico, is hereby approved.
- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 29-7 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.
- (3) In order to obtain Division authorization to downhole commingle wells within the San Juan 29-7 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 29-7 Unit of such proposed commingling.

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. 11627 ORDER NO. R-10695

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 28-5 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 28-5 Unit, San Juan County, New Mexico.