				/
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		NEW MEXICO OIL CONS - Engineering	SERVATION DIVISI	on 58
		ADMINISTRATIVE APPLI	CATION COVER	SHEET
	THIS COVERSHE	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICA	ATIONS FOR EXCEPTIONS TO DIVIS	ON RULES AND REGULATIONS
pplic	[PC-Pe	[NSP-Non-Standard Proration Unit]	D-Simultaneous Dedication Demmingling] [PLC-Pool/ Storage] [OLM-Off-Leas Pressure Maintenance E I-Injection Pressure Incre	on] Lease Commingling] Le Measurement] xpansion] ease]
1]	TYPE OF A	PPLICATION - Check Those White Location - Spacing Unit - Direction	onal Drilling	DEGETVED
	Check [B]	One Only for [B] and [C] Commingling - Storage - Measure DHC CTB PLC	ement PC OLS	JUN - 3 1997 DOLM
	[C]	Injection - Disposal - Pressure Inc WFX PMX SWD		Recovery PPR
2]	NOTIFICAT	TION REQUIRED TO: - Check T		
	[B]	Offset Operators, Leaseholders	s or Surface Owner	
	[C]	☐ Application is One Which Req	uires Published Legal 1	Notice
	[D]	Notification and/or Concurrent U.S. Bureau of Land Management - Commis	t Approval by BLM or signer of Public Lands	SLO Office
	[E]	☐ For all of the above, Proof of N	Notification or Publicat	ion is Attached, and/or,
	[F]	☐ Waivers are Attached		
3]	INFORMAT	TION / DATA SUBMITTED IS C	COMPLETE - Stateme	nt of Understanding
ppro U, O	ations of the O val is accurate a RRI) is commo	, or personnel under my supervision of Conservation Division. Further, and complete to the best of my known. I understand that any omission of the ceturned with no action taken.	I assert that the attache wledge and where appl	ed application for administrative icable, verify that all interest (WI,
agm. D	radfield	Note: Statement must be completed by a	, , ,	
-56J LA	(1)00/11/1	· NAMA L. ad	Regulatory/Compliance Add	minisualui 6/2/97

Title

Date

rint or Type Name

Signature

BURLINGTON RESOURCES

SAN JUAN DIVISION

June 2, 1997

SENT FEDERAL EXPRESS

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

Re:

San Juan 28-5 Unit #66M

1650'FSL, 790'FEL Section 29, T-28-N, R-5-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 in the subject well. This well is planned to be drilled and completed as a Mesa Verde/Dakota commingle 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. Production curve for Dakota and expected production curve for the Mesa Verde;
- 4. Notification list of offset operators Burlington is the surrounding operator;
- 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-10695 dated November 12, 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

xc: Bureau of Land Management - hand delivered

Jua hued

DISTRICT I

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

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

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

_ YES _xNO

PO Box 4289, Farmington, NM 87499

66M 129	28N-5W	Rio Arriba
Well No. Unit Li		County
Code 7460 API NO.N / A	•	ing Unit Lease Types: (check 1 or more)
Zone	Zone	Lower Zone
Blanco Mesaverde - 72319		Basin Dakota - 71599
will be supplied upon completion		will be supplied upon completion
gas		gas
flowing		flowing
(Current) a. 797 psi (see attachment)	a.	a. 865 psi (see attachment)
(Original) b. 1268 psi (see attachment)	b.	b. 3281 psi (see attachment)
BTU 1190		BTU 1007
shut-in		shut-in
no		yes
Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Oil: Gas: %	Oil: Gas: %	Oil: Gas: %
will be supplied upon completion		will be supplied upon completion
royalty interests identical in all c ing, and royalty interests been no given written notice of the propos Yes No If yes, are fluids c will the allocation formula be relia commingled zones compatible wi	ommingled zones? tified by certified mail? ed downhole commingling? ompatible, will the formations blex YesNo (If No th each other?x_ Yes _	Yesx_NoYesx_No _x_YesNo s not be damaged, will any crosso, attach explanation)No
nation above is true and com		owledge and belief.
	Blanco Mesaverde - 72319 will be supplied upon completion gas flowing (Current) a. 797 psi (see attachment) b. 1268 psi (see attachment) BTU 1190 shut-in no Date: n/a Rates: Date: n/a Rates: Oil: % Gas: % will be supplied upon completion upon something other than current at and/or explaining method and royalty interests been no given written notice of the propos Yes No If yes, are fluids commingled zones compatible will decreased by commingling? ced with, state or federal lands, notified in writing of this application upon 30(D) Exceptions: ORDER Notes and continue of the proposed with state or federal lands, notified in writing of this application upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exceptions: ORDER Notes and property of the supplication upon 30(D) Exception upon 30(D) Exception upon 30(D) Exception upon 30(D) Exc	Code7460 API NQ.N / AFederalX, State Upper

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

PO Box 2088, Santa Fc, 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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

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' Property (Code					roperty Name * Well Number							
	San Jua							nit					56M
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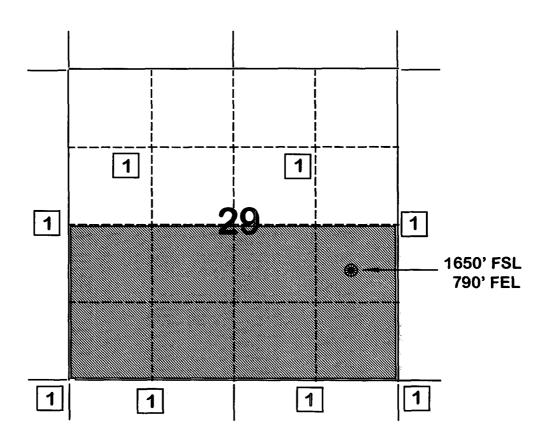
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BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-5 Unit #66M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 28 North, Range 5 West



1) Burlington Resources Oil and Gas Company

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NUM LU #3

San Juan 28-5 Unit #66M Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde	Dakota				
<u>MV-Current</u>	<u>DK-Current</u>				
GAS GRAVITY 0.702 COND. OR MISC. (C/M) C %N2 0.49 %CO2 0.96 %H2S 0.00 DIAMETER (IN) 2.375 DEPTH (FT) 5290 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 139 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 692 BOTTOMHOLE PRESSURE (PSIA) 797.0	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %CO2 %H2S				
MV-Original	DK-Original				
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) 0.702 0.49 0.49 0.49 0.00 0.96 0.00	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) 0.592 1.72 2.375 60 60 60 60 60 60 7161 61 61 61 61 62 737				

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11/06/58	319000	801.0	
06/14/59	370000	841.0	
06/14/60	458000	800.0	
06/13/61	525000	819.0	
10/25/62	608000	821.0	
08/26/63	645000	817.0	
04/22/64	684000	819.0	
06/21/65	760000	800.0	
05/23/66	805000	827.0	
05/26/67	873000	612.0	
05/20/68	940000	779.0	
05/23/69	1016107	777.0	
06/19/70	1100588	780.0	
04/27/71	1178167	705.0	
05/15/72	1270724	686.0	
07/05/73	1383461	634.0	
04/19/74	1441806	272.0	
01/28/76	1541893	680.0	
10/28/76	1592303	680.0	
06/05/78	1722378	662.0	
06/04/80	1837746	650.0	
05/31/82	1945079	669.0	
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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. 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.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

"If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D. of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingle (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

- (4) The applicant is the current operator of the San Juan 28-5 Unit which encompasses some 17,399 acres in Township 28 North, Range 5 West, NMPM, San Juan County, New Mexico.
- (5) Within the San Juan 28-5 Unit, the applicant currently operates sixty-seven (67) Basin-Dakota Gas Pool wells, seventy-one (71) Blanco-Mesaverde Gas Pool wells, sixteen (16) Gobernador-Pictured Cliffs, Oso-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and nineteen (19) Basin-Fruitland Coal Gas Pool wells.
 - (6) According to its evidence and testimony, Burlington seeks to:
 - a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal":
 - b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit:

- 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 28-5 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 28-5 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 28-5 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 1,258 MMCFG and 77 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 276 MCFGD and 136 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 28-5 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 28-5 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 were approximately 3,149 psi and 1,143 psi, respectively; and.
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1.059 psi and 714 psi, respectively.
- (10) There is sufficient pressure data available within the San Juan 28-5 Unit so as to except pressure criteria as proposed by the applicant.
- (11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 28-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:
 - a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;
 - b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.
- (12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore, the proposal to except allocation formulas should be approved.
- (13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 28-5 Unit the applicant presented evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given wellbore in the San Juan 28-5 Unit is generally not common;
 - b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 28-5 Unit every time a Form C-107-A is submitted to the Division. There are a considerable number of such interest owners within the unit;

- c) providing notice to each interest owner within the San Juan 28-5
 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 28-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-5 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 28-5 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 28-5 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 28-5 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 28-5 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 28-5 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 28-5 Unit of such proposed commingling.
- (4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY

Director