DATE IN 3/26/99 SUSPENSE 4/15/99 ENGINEER DC LOOGED BY M TYPE DHC
NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 2040 South Pacheco, Santa Fe, NM 87505
ADMINISTRATIVE APPLICATION COVERSHEET
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Application Acronyms:
[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Sait Water Disposal] [IPI-Injection Pressure increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling INSL INSP IDD ISD
Check One Only for [B] or [C]
[B] Commingling - Storage - Measurement
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[A] 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Eachne

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

14538

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** _X_YES ___NO

APPLIC	ATION FOR	DOWNHOLE	COMMINGLI	ING

Burlington Resources Oil & Gas	Company	PO Box 4289, Farmington, NM 87499		
Operator		Address		
San Juan 27-5 Unit	123	N 17-27N-05W	Rio Arriba	
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County	

API NO. 30-039-20401

OGRID NO.

Property Code 7454

Federal x

Spacing Unit Lease Types: (check 1 or more)

State (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 427 psi (see attachment)	a.	a. 939 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1313 psi (see attachment)	b.	b. 3183 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1205		BTU 1084
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 Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
* 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: % %	Oil: Gas: %	Oil: Gas: % will be supplied upon completion

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 9.

- 10. Are all working, overriding, and royalty interests identical in all commingled zones?
 Yes _x_No

 If not, have all working, overriding, and royalty interests been notified by certified mail?
 Yes _x_No

 Have all offset operators been given written notice of the proposed downhole commingling?
 __Yes _x_No
- Nill cross-flow occur? _x_ Yes _ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. _x_ Yes ____No (If No, attach explanation) 11. Will cross-flow occur?

12. Are all produced fluids from all commingled zones compatible with each other? __x_Yes _ No

13. Will the value of production be decreased by commingling? ____ Yes _X_No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. _X_Yes ___ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ____Reference Order _____R-10694___ attached

16. ATTACHMENTS

MENTS: * C-102 for each zone to be commingled showing its spacing unit and acreage dedication. * Production curve for each zone for at least one year. (If not available, attach explanation.) * For zones with no production history, estimated production rates and supporting data. * Data to support allocation method or formula. * Notification list of all offset operators. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE: Kennett un. Celim	TITLE: Production Engineer DATE: 03-08	3-99
TYPE OR PRINT NAME: Ken Collins	TELEPHONE NO.: (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 Brazos Rd., Aztee, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & 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

		WI	ELL LO	CATI	ON AND	ACF	REAGE DEDI	CAI	TION PL	AT.		
· /	PI Numbe											
30-039	-2040	1	7231	9/71	599	B1	anco Mesav	erċ	le/Basi	<u>n Dak</u>	ota	
[•] Property (7454	Code			San	' n Juan 2	noperty 7–5						Well Number 123
'OGRID	No.	·	······		' 0	perator	Name					* Elevation
14538			Burlin	igton	Resour	ces	0il & Gas	Cc	mpany_			6421' GR
				-	¹⁰ Sur	face	Location		1 5			
UL or lot no.	Section	Township	Range	Lot Id	n Feet from	1 the	North/South line	Fee	t from the	East/Wes	t line	County
N	17	27N	5W :		118		South		465	Wes	t	RA
			¹¹ Bot	tom H	Iole Locat	ion I	f Different Fro	om S	Surface			
UL or lot no.	Section	Township	Range	Lot Id	n Feet from	a the	North/South line	Fee	t from the	East/Wes	t line	County
¹² Dedicated Acr MV-W/32 DK-S/33	20.41	or Infill ¹⁴	Consolidatio	on Code	14 Order No.							
							ON UNTIL ALL EEN APPROVED				EN CO	NSOLIDATED
	1465				Driginal David O.	L P1	at from lven 2-19-	.71	I hereby cert true and com Signature <u>Peggy</u> Printed Nan <u>Regul</u> Title Date 18SURV I hereby cert was plotted f	fy that the in plete to the l Bradi atory /EYOR ify that the w rom field non supervision, e best of my ey	formation best of my Eield Admi CER vell locatio tes of actu and that l belief.	TIFICATION m shown on this plat al surveys made by m the same is true and
		11.8.5				ч. -			Certificate N	umber		

San Juan 27-5 Unit #123 Expected Production Mesaverde Formation



San Juan 27-5 Unit #123 Expected Production Dakota Formation



San Juan 27-5 Unit #123

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Dakota			
<u>MV-Current</u>	DK-Current			
GAS GRAVITY0.707COND. OR MISC. (C/M)C%N20.22%CO20.9%H2S0DIAMETER (IN)2DEPTH (FT)5652SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)370BOTTOMHOLE PRESSURE (PSIA)427.2	GAS GRAVITY0.636COND. OR MISC. (C/M)C%N20.28%CO21.34%H2S0DIAMETER (IN)1.5DEPTH (FT)7553SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)792BOTTOMHOLE PRESSURE (PSIA)938.9			
<u>MV-Original</u>	<u>DK-Original</u>			
GAS GRAVITY0.707COND. OR MISC. (C/M)C%N20.22%CO20.9%H2S0DIAMETER (IN)2DEPTH (FT)5652SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1113BOTTOMHOLE PRESSURE (PSIA)1312.6	GAS GRAVITY0.636COND. OR MISC. (C/M)C%N20.28%CO21.34%H2S0DIAMETER (IN)1.5DEPTH (FT)7553SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2648BOTTOMHOLE PRESSURE (PSIA)3183.3			

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Page No.: 1 Print Time: Mon Mar 01 13:30:37 1999 Property ID: 1422 Property Name: SAN JUAN 27-5 UNIT | 26 | 53356B-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM_GAS-- M_SIWHP Mcf

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03/20/57	0	1113.0
04/30/57	0	1112.0
09/14/58	64000	797.0
06/14/59	97000	709.0
09/22/60	141000	661.0
06/13/61	167000	662.0
10/01/62	204000	665.0
04/19/63	222000	663.0
04/29/64	252000	646.0
05/10/65	278000	634.0
04/19/66	306000	643.0
05/16/67	328000	624.0
08/14/68	358000	567.0
10/07/70	417947	637.0
07/22/71	434953	608.0
06/06/72	456399	606.0
05/02/78	592378	582.0
04/21/86	717960	622.0
08/22/89	765092	522.0
04/15/91	790903	358.0
05/13/91	792250	370.0

San Juan 27-5 Unit #123

Mesaverde Offset

Page No.: 1 Print Time: Mon Mar 01 13:36:40 1999 Property ID: 1345 Property Name: SAN JUAN 27-5 UNIT | 123 | 52428A-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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08/17/71	0	2648.0
12/13/71	73646	1384.0
06/06/72	147682	1344.0
08/29/73	262905	1215.0
09/04/75	439057	927.0
08/01/77	578925	917.0
05/01/79	697756	870.0
05/04/81	824544	792.0
09/19/83	927310	934.0
06/04/85	1003638	848.0
06/28/88	1130942	999.0
05/29/90	1213962	914.0
04/29/92	1280407	792.0

San Juan 27-5 Unit #123

Existing Dakota

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #123 OFFSET OPERATOR/OWNER PLAT

Commingle Well

Mesaverde (W/2) /Dakota (S/2) Formations Well

Township 27 North, Range 5 West



1) Burlington Resources

San Juan 27-5 Unit #123 Blanco Mesaverde / Basin Dakota 27N - 5W - 17

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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. 11626 ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 27-5 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 cause 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 comminging "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, Fruitiand Coal and Pictured Cliffs gas production within existing or funite drilled wells within the San Juan 27-5 Unit. San Juan County, New Mexico.

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

CASE NO. 11626 Order No. R-10694 Page -2-

> "If sufficient data exists on a lease, pool, formation, geographic area, em., 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 "teference 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 "teference cases" for specific criteria, subsequent applications to downhole commingie (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 27-5 Unit which encompasses some 23.043 acres in Township 27 North. Range 5 West. NMPM. San Juan County, New Mexico.

(5) Within the San Juan 27-5 Unit, the applicant currently operates one intudied and one (101) Basin-Dakota Gas Pool wells, one hundred and five (105) Blanco-Mesaverde Gas Pool wells, eighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and four (4) 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 27-5 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 27-5 Unit:

2

CASE NO. 11626 Order No. R-10694 Page -3-

- c) establish a "reference case" whereby the Division unitizes 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 27-5 Unit: and.
- d) establish a "reference case" or an administrative procedure for authorizing the downhole comminging of existing or future drilled wells within the San Juan 27-5 Unit without additional nonce 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 27-5 Unit:

- a) the structure and thickness of the Dakora and Pictured Cliffs formations are very consistent:
- b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 583 MMCFG and 426 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 393 MCFGD and 63 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 27-5 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 27-5 Unit. the applicant presented engineering evidence and testimony which indicates that: CASE NO. 11626 Order No. R-10694 Page ---

*

- a) the average shut-in bonomiale pressure within the Dakora and Pictured Cliffs formations at the time of initial development were approximately 3.141 psi and 1.118 psi. respectively; and
- b) the average current shut-in bottomhole pressure within the Dakora and Pictured Cliffs formations are approximately 1.032 psi and 441 psi. respectively.

(10) There is sufficient pressure data available within the San Juan 27-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be unlized for downhole comminged wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- 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 27-5 Unit the applicant presented evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given weilbore in the San Juan 27-5 Unit is generally not common:
- b) pursuant to Division Rule No. 303.D. applicant is currently required to nonity all interest owners within the San Juan 27-5 Unit every time a Form C-107-A is submitted to the Division. There is a considerable number of such interest owners within the unit:

CASE NO. 11626 Order No. R-10694 Page -5-

- providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downnoie comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole comminging of weils within the San Juan 27-5 Unit Area will benefit working, royaity, and overriding royaity interest owners. In addition, the downhole comminging of wells within the San Juan 27-5 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) As administrative procedure should be established within the San Juan 27-5 Unit for obtaining approval for subsequent downhole commingied 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 downtole commingling approvals within the San Juan 27-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Buriington 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 downhold commingling of Dakota. Mesavercie. Fruitiand Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan County New Mexico. is hereby approved. CASE NO. 11626 Order No. R-10694 Page -6-

(2) Upon filing of Division Form No. C-107-A's for weils subsequently downhole commungied within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictures Cliffs and Dakota formations as "marginal", supporting data to verify the Pictures 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 commungle wells within the San Juan 27-5 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 nonice to all interest owners within the San Juan 27-5 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 Director