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ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



2225

Date

## ADMINISTRATIVE APPLICATION COVERSHEET

THIS	COVERSHEET IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	ation Acronym	
	PC-Pool  Y	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [IDD-Directional Drilling] [SD-Simultaneous Dedication] [IDD-Directional Drilling] [PLC-Pool/Lease Commingling] [IDD-Pool/Lease Commingling] [PLC-Pool/Lease Commingling] [Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [IDD-Standard Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [IDD-Direction Response]
[1]	[A]	PPLICATION - Check Those Which Apply for [A]
	[B]	Cone Only for [B] or [C]  Commingling - Storage - Measurement  DHC DCTB PC DOLS
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICAT [A]	TON 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]	INFORMAT	TON / DATA SUBMITTED IS COMPLETE - Certification
Regularion (Negro) (Ne	ations of the O /al is accurate a ) is common. <u>I</u>	I, or personnel under my supervision, have read and complied with all applicable Rules an il Conservation Division. Further, I assert that the attached application for administrative and complete to the best of my knowledge and where applicable, verify that all interest (WI, Refunderstand that any omission of data (including API numbers, pool codes, etc.), pertiner 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.
		(Stage / Mara ruce)

Title

Signature

Print or Type Name

#### DISTRICT I

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

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION

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

\_\_YES \_\_x\_ NO

#### 1 .O. DOX 1000; 110000

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

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

Address

45M

APPROVAL PROCESS:
\_X\_ Administrative \_\_\_\_Hearing

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

San Juan 27-4 Unit

**Burlington Resources Oil & Gas Company** 

#### APPLICATION FOR DOWNHOLE COMMINGLING

19-27N-04W

Unit Ltr. - Sec - Twp - Rge

PO Box 4289, Farmington, NM 87499

EXISTING WELLBORE

Rio Arriba

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property C	ode 7452	API NO. 30-03	9-not assigned	Federal x	State	(and/or) Fee
The following facts are submitted in support of downhole commingling:  1. Pool Name and Pool Code	Upp Zoi Blanco Mesaverd		intermed Zone			Ower Zone 71599
Top and Bottom of Pay Section (Perforations)	will be supplied u	ipon completion			will be supplie	d upon completion
3. Type of production (Oil or Gas)	gas				gas	
Method of Production     (Flowing or Artificial Lift)	flowing				flowing	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 634 psi (see a	ttachment)	a.		a. 1125 psi (se	ee attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1373 psi (see	attachment)	b.			ee attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1218				BTU 1136	
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/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: 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:	%	<b>,</b> %	Gas: %
9. 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.  10. Are all working, overriding, and royalty interests identical in all commingled zones?  If not, have all working, overriding, and royalty interests been notified by certified mail?  X yesNo   Have all offset operators been given written notice of the proposed downhole commingling?X yesNo   11. Will cross-flow occur?xYesNo   If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliablexYesNo (If No, attach explanation)  12. Are all produced fluids from all commingled zones compatible with each other?xYesNo  13. Will the value of production be decreased by commingling?YesX_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 No  15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) attached  16. ATTACHMENTS:  **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.						
SIGNATURE Laun 3	, ,		ete to the best of uction Engineer	•	ge and belief.  ATE: 02-04-9	
TYPE OR PRINT NAME: Wayne F				326-9700		

× 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 Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

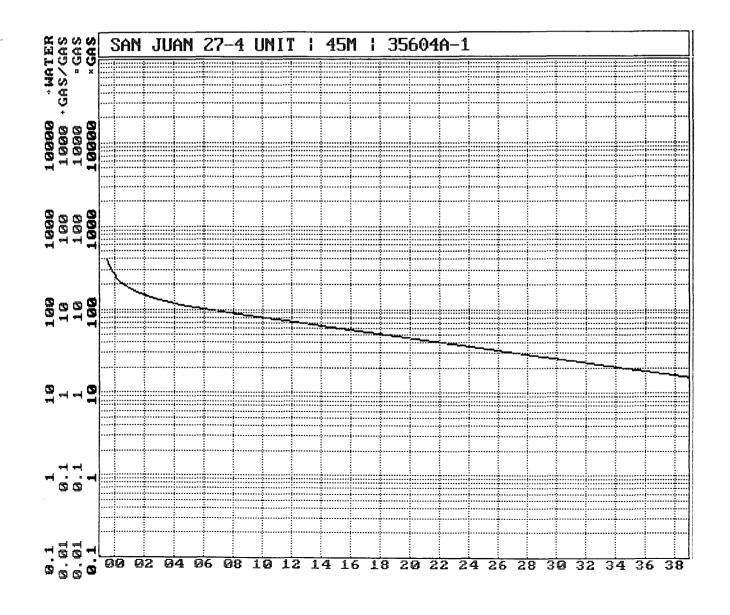
AMENDED REPORT

Form C-102

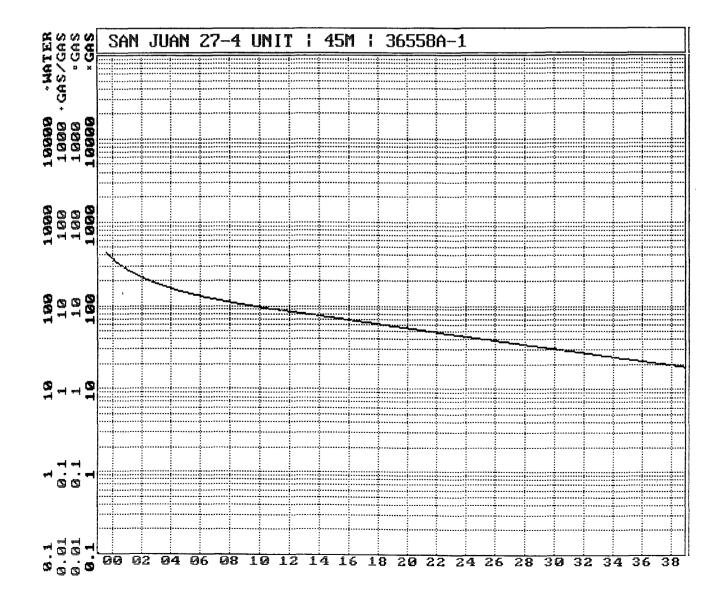
			WELL	LOCAT]	ION AND AI	CREAGE DEDI	CATION PL	ΑT		
14	API Numbe	r		*Pool Cod	e	<sup>3</sup> Pool Name				
30-039-				319/71599 Blanco Mesaverde/Basin Dakota						
'Property	Code				*Property	Name			° We	11 Number
7452				S	AN JUAN 2	27-4 UNIT				45M
'OGRID No.					*Operator	Name			•E:	levation
14538			BURLI	NGTON	RESOURCES	OIL & GAS	COMPANY		6	5804'
	<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
0	0 19 27N		4W		1150	SOUTH	1670	ΕA	ST	RIO ARRIBA
		<sup>11</sup> Bc	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
MV-E/32 DK-E/32	MV-E/320 DK-E/320			solidation Code	<sup>15</sup> Order No.					•
NO ALLOW	IABLE W					ON UNTIL ALL EEN APPROVED			EN CON	ISOL IDATED
16			529	91.22						FICATION contained herein is

16	1	5291.22		<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	2		NMSF-080669	Signature  Peggy Bradfield Printed Name  Regulatory Administrator  Title
5280.00		- $ 19$ $-$	5280.00	Date  18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
-			1670'	AUGUST 5, 1998 Date of Survey Signature and Self Prespons Surveyor
	4	5293.20°	<u>  150</u>	Certification Number on the second se

# San Juan 27-4 Unit #45M Expected Production Curve Mesaverde Formation



# San Juan 27-4 Unit #45M Expected Production Curve Dakota Formation



## San Juan 27-4 Unit #45M

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 COND. OR MISC. (C/M)  %N2  0.16  %CO2  0.83  %H2S  0  DIAMETER (IN)  DEPTH (FT)  SURFACE TEMPERATURE (DEG F)  BOTTOMHOLE TEMPERATURE (DEG F)  SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA)  634.2	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.14 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA)  1125.2
MV-Original	DK-Original
GAS GRAVITY  COND. OR MISC. (C/M)  %N2  %CO2  0.83  %H2S  DIAMETER (IN)  DEPTH (FT)  SURFACE TEMPERATURE (DEG F)  BOTTOMHOLE TEMPERATURE (DEG F)  SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA)  1372.7	GAS GRAVITY COND. OR MISC. (C/M)  %N2

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Print Time: Thu Feb 04 10:51:06 1999
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Property Name: SAN JUAN 27-4 UNIT | 25 | 50384A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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Dalota Official	1512.0	331522	06/25/76
Dakota Offset	1507.0	549246	07/06/77
	1230.0	1009326	11/01/79
	972.0	1270868	04/20/81
	1106.0	1524535	09/19/83
	1195.0	1641947	06/05/85
	1104.0	1900869	10/11/88
	952.0	2090929	04/22/90
	927.0	2246504	05/28/92

# San Juan 27-4 Unit #45M

# Blanco Mesaverde / Basin Dakota

# 27N - 4W - 19

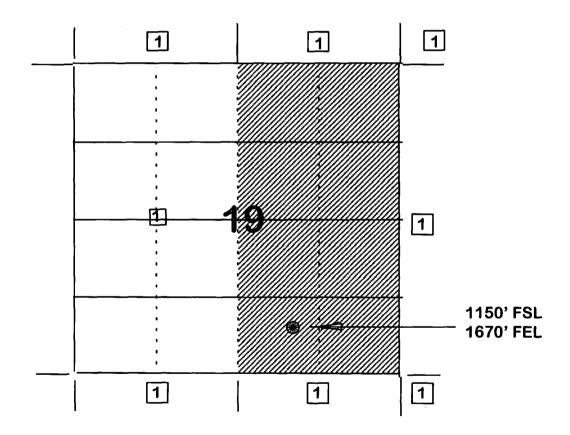
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# BURLINGTON RESOURCES OIL AND GAS COMPANY

# OFFSET OPERATOR \ OWNER PLAT San Juan 27-4 Unit #45M

# Mesaverde/Dakota Formations Commingled well

**Township 27 North, Range 4 West** 



1) Burlington Resources

### BURLINGTON RESOURCES

SAN JUAN DIVISION 3535 East 30th Street: (87402-8801) P.O. BOX 4289 Farmington, New Mexico 87499-4289 BURLINGTON RESOURCES

SAN JUAN DIVISION 3535 East 30th Street: (87402-8801) P.O. BOX 4289 Farmington, New Mexico 87499-4289

Bedrock Limited Partners PO Box 36480 Albuquerque, NM 87176 Mary Jone Chappell PO Box 1865 Corrales, NM 87048

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### BURLINGTON RESOURCES

SAN JUAN DIVISION 3535 East 30th Street: (87402-8801) P.O. BOX 4289 Farmington, New Mexico 87499-4289

Cinco General Partnership PO Box 451 Albuquerque, NM 87103-0451 Harco LTD Partnership PO Box 216 Roswell, NM 88202

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SAN JUAN DIVISION 3535 East 30th Street: (87402-8801) P.O. BOX 4289 Farmington, New Mexico 87499-4289

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James V. Harrington PO Box 13535 Albuquerque, NM 87192 Tempe LTD Partnership c/o F.E. & M.K. Harrington 652 Fearrington Post Pittsboro, NC 27312