		<i></i>										
DATE IN 7	8/	98	SUSPENSE 7/0	28/	98	ENGINEER	DC	LOGGED BY	W	1	TYPE D	4C
			<del></del>	77	_							

ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -2040 South Pacheco, Santa Fe, NM 87505



2067

### **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] [SD-Simultaneous Dedication] [DD-Directional Drilling] [PLC-Pool/Lease Commingling] [CTB-Lease Commingling] [DHC-Downhole Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [PC-Pool Commingling] [PMX-Pressure Maintenance Expansion] [WFX-Waterflood Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [PPR-Positive Production Response] [EOR-Qualified Enhanced Oil Recovery Certification] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling ☐ DD . D NSL ☐ NSP Check One Only for [B] or [C] IOIL CONSERVATION DIVISION Commingling - Storage - Measurement [B] OLS OLS OLM **ZI-D**HC ☐ CTB ☐ PLC □ PC Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  $\square$  PMX □ SWD ☐ EOR ☐ PPR □ WFX NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] ☐ Working, Royalty or Overriding Royalty Interest Owners [A] [B] Offset Operators, Leaseholders or Surface Owner

Application is One Which Requires Published Legal Notice

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

### [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

☐ Waivers are Attached

[C]

[D]

Œ

[F]

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. *I understand that any omission of data* (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

Note:	Statement must be completed by an inc	dividual with managerial and/or supervis	sory capacity.
		Lued	•
Print or Type Name	Signaturé	Title	Date

#### <u>DISTRICT I</u>

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

1000 Rio Brazos Rd, Aztec, NM 87410-1693

**Burlington Resources Oil & Gas Company** 

State of New Mexico Energy, Minerals and Natural Resources Department

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

### DISTRICT II

### OIL CONSERVATION DIVISION

APPROVAL PROCESS:

PO Box 4289, Farmington, NM 87499

\_X\_ Administrative \_\_\_Hearing

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

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPLICATION FOR DOWNHOLE COMMINGLING

**EXISTING WELLBORE** \_\_ YES \_\_x\_ NO

Operator		Address		<del></del>
San Juan 27-4 Unit	<b>7M</b>	D 04-27N-04W		Rio Arriba
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County	(about 4)
OGRID NO14538 Property Cod	10 7452 API NO	30-039-not assigned	Spacing Unit Lease Types:	
OGRID NO14938 Floperty Coo				
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermedia Zone	te proposition plants	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota	- 71599
Top and Bottom of Pay Section (Perforations)	will be supplied upon comple	etion	will be supplie	ed 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:	(Current) a. 640 psi (see attachment)	a.	a. 999 psi (se	e attachment)
Estimated Current Gas & Oil - Flowing:	(Original)		h 0700	
Measured Current All Gas Zones: Estimated or Measured Original	b. 1385 psi (see attachment)	) b.	b. 2760 psi (s	see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1160		BTU 1027	
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	Date:	Date: n/a	
· •	Rates:	Rates:	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:	
S. Sived Deventors Allegation	Oil: Gas:	Oil: Gas:	Oil:	Gae
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	% Gas. %	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Gas:
(total of 76's to equal 100 %)	will be supplied upon completion		will be supplied	upon completion
9. If allocation formula is based up attachments with supporting dat 10. Are all working, overriding, and roll fort, have all working, overridin Have all offset operators been given.	oyalty interests identical in al g, and royalty interests been ven written notice of the prop	l commingled zones? notified by certified mail? posed downhole commingl	YesX_No X_YesNo ing? X_YesNo	
11. Will cross-flow occur? _x \ production be recovered, and wi	fes No If yes, are flui Il the allocation formula be re	ds compatible, will the fo	rmations not be damaged, lo (If No, attach explanation	will any cross-flowed  i)
12. Are all produced fluids from all co	mmingled zones compatible	with each other?x	c_Yes No	
13. Will the value of production be de	creased by commingling?	Yes _X_ No (If Yes,	attach explanation)	
<ol> <li>If this well is on, or communitize Land Management has been notifi</li> </ol>			r of Public Lands or the Un	nited States Bureau o
15. NMOCD Reference Cases for Rule	303(D) Exceptions: ORDEF	R NO(S)		
16. ATTACHMENTS:  * C-102 for each zone to  * Production curve for e  * For zones with no pro  * Data to support alloca  * Notification list of all o  * Notification list of wor  * Any additional statement	be commingled showing its each zone for at least one yea duction history, estimated pi tion method or formula. offset operators. king, overriding, and royalty ents, data, or documents req	spacing unit and acreage ar. (If not available, attach o roduction rates and suppor interests for uncommon in uired to support commingl	dedication. explanation.) ting data. iterest cases. ling.	
I hereby certify that the information				— f.
SIGNATURE Seam Wood	herton TITLE:	Reservoir Engineer	DATE: <u>06-29-98</u>	
TYPE OR PRINT NAME Sean \	<b>Moolverton</b> TELEPI	HONE NO. ( 505 ) 326-9	700	

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aziec, NM 87410
District IV

### 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

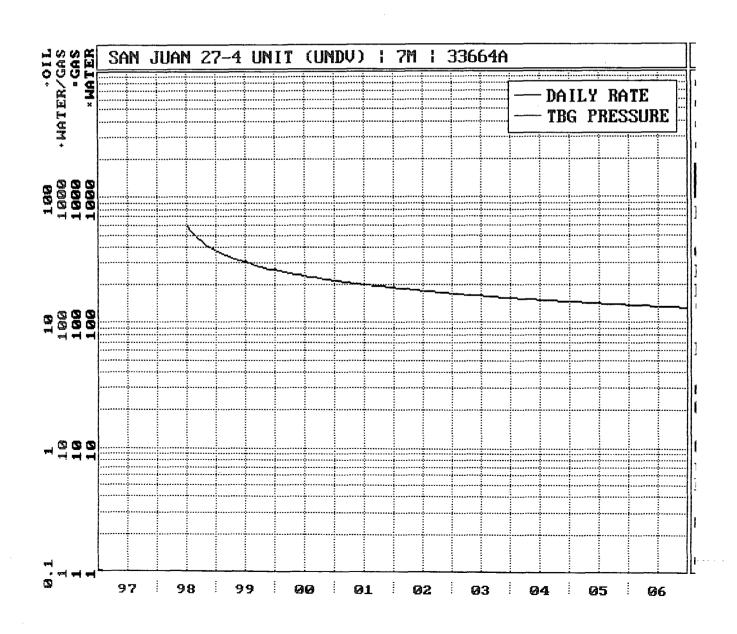
ETSIONAL LAND

7016 Certificate Number State Lease - 4 Copies Fee Lease - 3 Copies

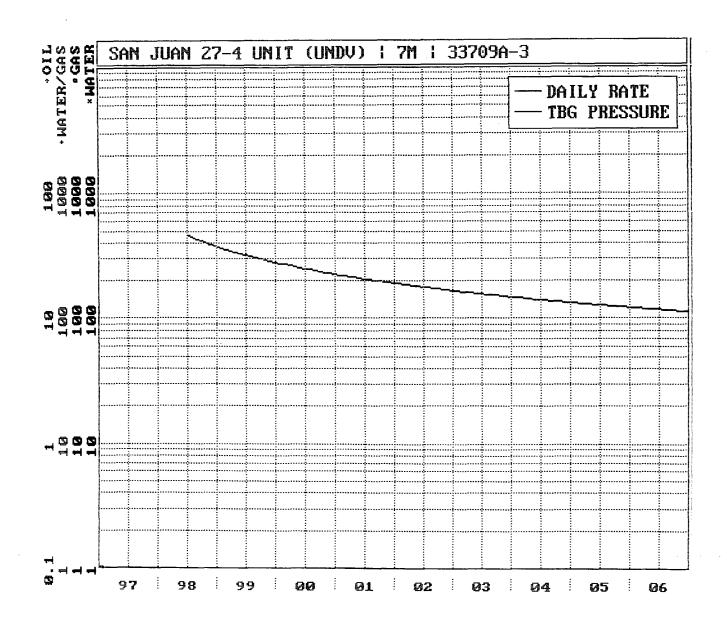
AMENDED REPORT

PO Box 2088, San	ta Fo, NM 8	7504-2088								AMEN	DED REPORT	
		WE	LL LO	CATION	N AND ACRI	EAGE DEDIC	ATIC	N PLA	Г			
1	API Number	,		<sup>1</sup> Pool Cod	io			³ Pool Na	me	<del></del>		
30-039				19/715	99 Bla	nco Mesave	rde/	Basin	Dakot	:a -	ell Number	
* Property (	Code	S	AN IU/	AN 27-4					1	- 17	# 7M	
1 OGRID No.			<del></del>	<sup>8</sup> Operator		<del></del>			, Ele	vation.		
14538	B	URLING	STON R		OIL & GAS CO	OMPA	NY		<del> </del>	7051		
UL or Lot No.	Section	Township	Reago	Lotida	Surface I	Ocation North/South line	Post	from the	Bast/West li	ine	County	
D	9	27 N	4 W		610	NORTH	1	B00	WES	ـ ا	RIO ARRIBA	
			" Bott	om Hol	e Location If	Different From						
<sup>†</sup> UL or lot no.	Section	Township	Range	Lot Ide	Feet from the	North/South line	Foot	from the	Bast/Wost	line	County	
Dedicated Acre	e <sup>13</sup> Join	nt or Infill ×	Consolidatio	an Code 15	Order No.	<u> </u>	<u> </u>					
MV-W/320 DK-W/320												
NO ALLO	WABLE					ION UNTIL ALL EEN APPROVET				N CONS	OLIDATED	
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r.	IMSF -	0806	68	3				Signature s	and Soul of P	Tolcamonal	Surveyor	
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									rest (	7016	TIE	

### San Juan 27-4 Unit #7M Expected Production Curve Blanco Mesaverde



## San Juan 27-4 Unit #7M Expected Production Curve Basin Dakota



### SJ 27-4 Unit #7M

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

Mesaverde	Dakota <u>DK-Current</u>				
<u>MV-Current</u>					
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)  639.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 11.71 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA) 999.3				
MV-Original	<u>DK-Original</u>				
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)  1385.0	GAS GRAVITY 0.613 COND. OR MISC. (C/M) C %N2 0.46 %CO2 1.71 %H2S 0 DIAMETER (IN) 1.5 DEPTH (FT) 8458 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 198 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 2759.5				

Page No.: 1

Print Time: Mon Jan 19 16:12:38 1998

Property ID: 11411
Property Name: SAN JUAN 27-4 UNIT | 18 | 52077A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

Table	Name:	K:\ARIES\RR98	SPDP\TEST.DB	F /T ~	r-4 Unit=	# m
DATE	M SIWH	IP #				
07/08/58 09/11/58 09/11/58 06/14/59 06/14/60 06/13/61 01/20/62 07/31/62 01/07/63 01/02/64 07/29/65 08/01/66 08/04/67 05/10/68 06/09/70 05/03/71 05/30/72 08/07/74 02/20/81 04/21/86 09/04/89 02/18/91 08/20/91 05/03/93	795. 734. 712. 679. 676. 676. 659. 655. 624. 526. 527. 526. 795. 536.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Nesaverde	UNSCI

Page No.: 2

Print Time: Mon Jan 19 16:12:39 1998

Property ID: 1655

Property Name: SAN JUAN 27-4 UNIT | 70 | 44637A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP Psi 5J 27-4 Unit #7M

Dakota Offset

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06/25/76 1027.0 07/06/77 984.0 06/05/85 856.0

832.0- curvent 09/29/93

# San Juan 27-4 Unit #7M Blanco Mesaverde / Basin Dakota 27N-04W-09

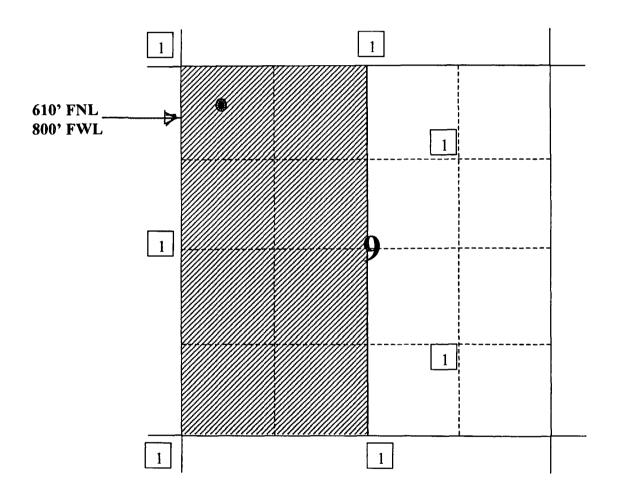
4 39.94 3 32.6412 35.91 1 39.2	8 4 39.83 3 39.78 2 39.70 1 39.	63 1 .59.60 3 .28.60 1 39.60 1 39.60	4 33.86 3 39.78 2 39.32 1 40.04	4 40.08 3 40.00 2 40.00 1 35.96 153 NM 4545	4 39.36 3 39.96 2 39.98 1 39.9
NM 2107,22	NE 2107,22 19	1	NM 2114,22 147	153 MM 4545	NN 2406
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<b>3</b>	5				
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P	SJ 27-4 (In MP/Fe)	<b>"</b> ₩	54 54 54 27-4 Un	V-PE	
S.J. 27-4 Un. 1 40.52 NM 2107,22	S.J. 27-4 Un.MP(Fc) S.J. 27-4 Un. 124A NM 2107,22	S.i. 27-4 Un.	S.J. 27-4 Un. IBM 2114,22	S.I. 27-4 Un. NM 4545	S.J. 27-4 Uh. 020542-T
5	s i 62a	NM 2114,22		Nai 4545 ⊕ <sup>25A</sup>	1
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	42 500 P 125A	134	_98	28 🛞	
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1 40.23 No 2110.22 No 10437 121	15A NM 2110,22 ∰	NM 2112, 22 99A ₩	MM 2112, 22	MM 2108, 22	Ni 2106, 22
2 +0.26 <b>9 1 2 1 1 3 3</b>	P 73 43	P 27	M		
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40.35 NM 2110,22 50E 45	NM 2110,22	75 NM 2112, 22 S0 0 142	NM 2112, 22	32 NM 2106, 22	NM 2108, 22
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50 23 🔯	48 236 256 256	56 78 145 77 255 € ★	**************************************		
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### BURLINGTON RESOURCES OIL AND GAS COMPANY

### San Juan 27-4 Unit #7M

### OFFSET OPERATOR/OWNER PLAT Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources