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NEW MEXICO OIL CONSERVATION DIVISION

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



2224

## 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-Salt 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  UNSL UNSP UDD SD  FEB † 6 1999					
Check One Only for [B] or [C]  [B] Commingling - Storage - Measurement  DHC CTB PLC PC OLS OLM					
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR					
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply					
[A] Working, Royalty or Overriding Royalty Interest Owners					
[B] Signature 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]					
[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 an 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, R 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					
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.					
Print or Type Name Signature Title Date					

#### DISTRICT I

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

### **OIL CONSERVATION DIVISION**

APPROVAL PROCESS:

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

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

\_X\_ Administrative \_\_\_Hearing **EXISTING WELLBORE** 

DISTRICT III

TYPE OR PRINT NAME: Wayne Fletcher

1000 Rio Brazos Rd, Aztec, NM 87410-1693

The following facts are submitted in support of downhole commingling:

APPLICATION FOR DOWNHOLE COMMINGLING

\_\_ YES \_\_x\_ NO PO Box 4289, Farmington, NM 87499

(505) 326-9700

Intermediate Zone

**Burlington Resources Oil & Gas Company** Operator 46M San Juan 27-4 Unit 31-27N-04W Rio Arriba Well No. Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more) API NO. 30-039-not assigned OGRID NO. 14538 7452 Federal x State **Property Code** (and/or) Fee

		disease production in the contract of	radion i ka					
Pool Name and     Pool Code	Blanco Mesaverde - 72319		ваsin Dakota - 71599					
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					
Method of Production     (Flowing or Artificial Lift)	flowing		flowing					
5. Bottomhole Pressure	(Current) a. 634 psi (see attachment)	a.	a. 1125 psi (see attachment)					
Oil Zones - Artificial Lift: Estimated Current			į.					
Gas & Oil - Flowing:  Measured Current	(Original) b. 1373 psi (see attachment)	b.	b. 2942 psi (see attachment)					
All Gas Zones: Estimated or Measured Original		and distance of the second						
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	Date: n/a	Date:	Date: n/a					
last production  Note: For new zones with no production history.	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	Date: n/a	Date:	Date: n/a					
(within 60 days)	Rates:	Rates:	Rates:					
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: %	Oil: Gas: %					
(total of %'s to equal 100%)	will be supplied upon completion		will be supplied upon completion					
<ol> <li>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.</li> </ol>								
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?  Have all offset operators been given written notice of the proposed downhole commingling?  X_Yes  No  X_Yes								
11. Will cross-flow occur? _x y production be recovered, and will	Yes No	mpatible, will the formations not	be damaged, will any cross-flowed ch explanation)					
12. Are all produced fluids from all co	mmingled zones compatible with	each other?x_Yes No	•					
13. Will the value of production be de-	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 applicationX_Yes 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.								
I hereby certify that the informat	tion above is true and comple	te to the best of my knowled	ge and belief.					
SIGNATURE WALLY	Hilles TITLE: Produ	ction Engineer DA	ATE: 02-04-99					
	CHAILE LAND							

TELEPHONE NO.:

District I PO Box 1980, Hobbs NM 88241-1980

PO Box 1980, Hobbs NM 88241-1980 District II

PO Drawer KK, Artesia, NM 87211-0719 District III

1000 Rio Bessos Rd., Azsec, NM 87410

District IV

PO Box 2088, Santa Fo, 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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	<sup>3</sup> Pool Code <sup>3</sup> Pool Namo			
20-039-	71599/72319	Basin Dakota/Blanco Me	saverde	
* Property Code	¹ Pa	Sporty Name	* Well Mamber	
7452	SAN JUAN 27-4 UNIT	# 46M		
OGRID No.	¹ O <sub>f</sub>	crator Name	* Elevation	
14538	BURLINGTON RESOURCE	7308		

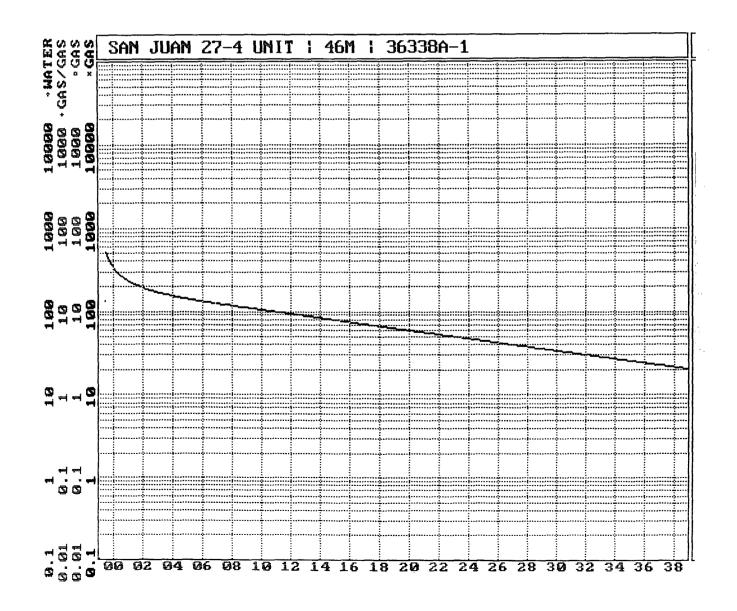
### Surface Location

UL or Lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South time	Post from the	Rest/West line	County
E	31	27 N	4 W		1875	NORTH	405	WEST	RIO ARRIBA
" Bottom Hole Location If Different From Surface									
<sup>7</sup> UL or lot no.	Section	Township	Rango	Lot ide	Feet from the	North/South line	Foot from the	Bast/West line	Содину
DK: N/321.16 Consolidation Code Code									
MV: E/323.116									

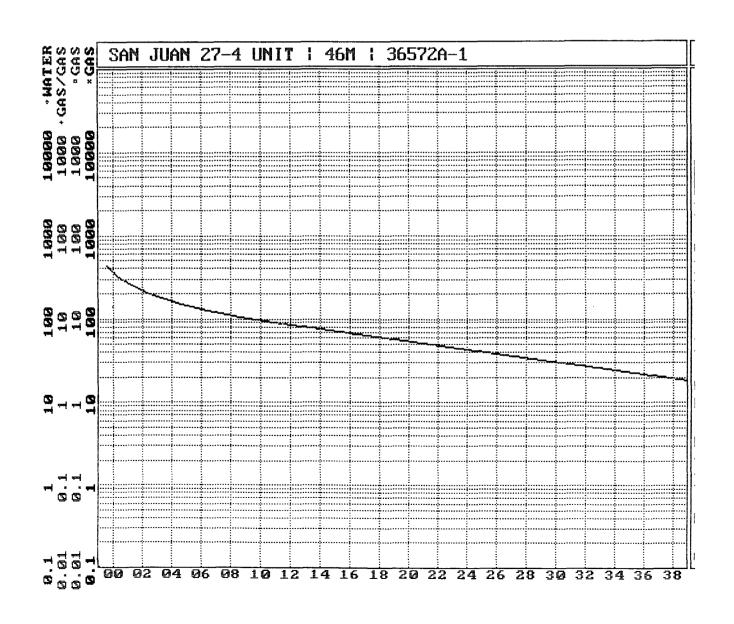
# NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OK A NON-STAN		EN APPROVED BY	
(K) 0000	XXXXX 1320'(R) XXXX	////////////2640	( <b>K)</b> / / / / / / / / / / / / / /	"OPERATOR CERTIFICATION
Š				I bereby certify that the information contained berein is true and complete to the best of my knowledge and betief
Lot 1				
¥			7	Signature
X X				Peggy Bradfield
2405' O Lot 2	NMSF	080670		Regulatory Administrato
<b>E</b>			// 2	Detc
<u>o</u> //////////////	///////////////////////////////////////	1//////////////////////////////////////	///////////////	"SURVEYOR CERTIFICATION
22	ر	i i	528	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me
<u>                                     </u>				or under my supervision, and that the same is true and
			,	correct to the best of my belief.
Lot 3				August 11, 1998 Date of Survey
NIMOT	000/70			Signature and Scales Professional Surveyor
NMSF -	080670			THE MER IN
				6000
				SO 16
Lot 4				
				7016 Cartificase Number
1360'(R)	1320'(R)	2640 (b) = (	'(R)	Certificate Number

# San Juan 27-4 Unit #46M Expected Production Curve Mesaverde Formation



# San Juan 27-4 Unit #46M Expected Production Curve Dakota Formation



### San Juan 27-4 Unit #46M

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

Mesaverde	Dakota	
MV-Current	<u>DK-Current</u>	
GAS GRAVITY  COND. OR MISC. (C/M)  %N2  %N2  %H2S  DIAMETER (IN)  DEPTH (FT)  SURFACE TEMPERATURE (DEG F)  BOTTOMHOLE TEMPERATURE (DEG F)  FLOWRATE (MCFPD)  SURFACE PRESSURE (PSIA)  BOTTOMHOLE PRESSURE (PSIA)  GOVERNMENT  0.715  C.  0.83  0  0.83  0  0  1.375  60  137  FLOWRATE (MCFPD)  0  542	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)	0.666 C 0.21 1.14 0 1.5 7983 60 198 0 927
MV-Original	DK-Original	
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)  0.715  C 0.83  0.94  0.75  0.83  0.8	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)	0.666 C 0.21 1.14 0 1.5 7983 60 198 0 2386

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Property ID: 1230
Property Name: SAN JUAN 27-4 UNIT | 25 | 50384A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

DATE	CUM_GAS	M SIWHP	
10/17/60 11/03/60	0	1151.0 1151.0	San Juan 27-4 Unit #46M
09/13/61	48000	766.0	Mesaverde Offset
08/06/62 04/19/63		646.0 628.0	Mesaverue Onset
05/07/64 05/10/65			
04/19/66	166000	547.0	
08/04/67 05/02/68	214000		
08/28/70 04/08/71			
08/09/72 11/06/83			
12/06/83	431466	551.0	
11/04/86 03/18/91	515089	530.0	
04/01/91	515089	542.0	

Page No.: 1
Print Time: Thu Feb 04 09:52:56 1999
Property ID: 1259
Property Name: SAN JUAN 27-4 UNIT | 49 | 44038A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

DATE	CUM_GAS Mcf		
06/28/74 06/24/75 06/25/76 07/06/77 11/01/79 04/20/81 09/19/83 06/05/85 10/11/88 04/22/90 05/28/92	331522 549246 1009326 1270868 1524535 1641947 1900869 2090929	2386.0 1865.0 1512.0 1507.0 1230.0 972.0 1106.0 1195.0 1104.0 952.0 927.0	San Juan 27-4 Unit #46M Dakota Offset

## San Juan 27-4 Unit #46M

## Blanco Mesaverde / Basin Dakota

27N - 4W - 31

NN 2567.22 15 € 15	988 2107,22 <b>99</b> P-PA	## 2556,22 59 2556,22	NN 2:19,22 €	153 % 4545	HI 2RE
5.d. 27-4 500.	5  2	70 20 18 8 Sú 27-4 lin.	3 152 152 153 154 154 154 154 154 154 154 154	2 122 122 11-78 11-78	1
NM 28/7.22 5 123 P 7	1244 NM 2337,22	# 2012 27-4	NS 214,22	189 4545 280A	(25542-3 1 €P₽A 12
41 SM	124 42  125A 9  125A 9  125A	9 138 134 7 28 27 4 100. 134 27 5 22.	98	n	©mpreen NB 2108, 22
14M 210.22 14M 24P 221A 14M 2110.22 18M 2110.22 See 27-6 69	17 16 16R D-P&M	16 D Abd 197	341 15 34 SE	22 ★ 14 T.D.8312	<b>13</b> 54 <i>28-4</i> th.
NM 2110, 22 45 50E 105 526 96 97-Abd '96 19	684 210, 22 47 ⊠ 313 20 P	564 NM 2112, 22 60 142 wo'89 25 142	NM 2112, 22	32 784 2105, 22 <b>89</b> 23	nw প্রাচ্চ <b>া</b> ই <b>24</b>
50 23 23 23 89 P-PA Sui 22-4 (to.	126 3 27-4 (gr.P.) 38-211, 22	5.6 145 2.7 -4 1/9. 3.4 27-4 1/9.	<b>3 149</b> Sd 22-4 Un. NH 2113, 22	109 <b>₩</b> \$ <i>J. 27~4 (b.</i>	5.4. 27m4 èn 53 13#BS
S.L. 22-4 (In.  Hid 211, 22 21 53  SEE 30  30	89 <sup>20</sup> 🔀 51	聚 <sup>io</sup> 28	133A SS 132 SS 133 u SS 27	135A <b>69 29</b>	P ∰ 54 ∰ 7 25
S.d. 27-4 in.	P S.2 27-4 (%. NW 2111, 22 54	144 \$\begin{align*} 57 \begin{align*} \text{S.A. 27-4 05.} \tag{202} & \text{Align*} 223 \\ \text{102} \end{align*}	€ 1320 C S.J. 27-4 in 184 2113, 22 137	<b>69-35 69-29A</b> Sala 27-4 tip, Columbia	5 + 8 - 7A P + 8 - 7A Charrytin 136
*46M \$ €	32 108 S	33 37M	59 \$3 34 120 NH €55	4€ (25) <sup>3</sup> , ° ° 35 ° 35 ° 35 ° 35 ° 35 ° 35 ° 35 °	36A <sub>88</sub>
25 58 44 Sal 22-4 (a).	30 88 136 30 88 0 27-4 45,	37N 37 27 (28) 6 (28) (38) 5.4 28-4 3h	P-Abd. 96 34 50 00 00 00 00 00 00 00 00 00 00 00 00	1 2A 6	36 SS 27-4-19.

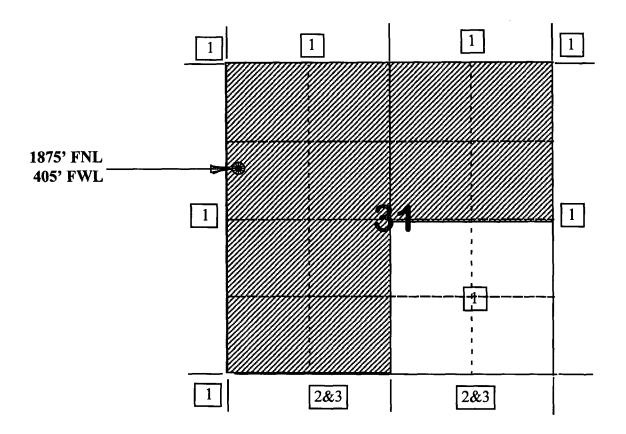
### BURLINGTON RESOURCES OIL AND GAS COMPANY

### San Juan 27-4 Unit #46M

### **OFFSET OPERATOR/OWNER PLAT**

### Mesaverde (W/2) / Dakota (N/2) Formations Commingle Well

Township 27 North, Range 4 West



- 1) Burlington Resources
- 2) Taurus Exploration USA, Inc Attn: Ms. Kathy Clayton 2101 Sixth Ave. North Birmingham, Alabama 35203

Chateau Oil & Gas, Inc.
 5950 Berkshire Lane, Ste 275
 Dallas, TX 75225

### 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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3535 East 30th Street: (87402-8801)

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Farmington, New Mexico 87499-4289

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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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P.O. BOX 4289

Farmington, New Mexico 87499-4289

BURLINGTON RESOURCES

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P.O. BOX 4289

Farmington, New Mexico 87499-4289

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