

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

APPROVAL PROCESS :

Administrative  Hearing

EXISTING WELLBORE

YES  NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator **SAN JUAN 28-5 UNIT** Address **93M J 15-28N-5W** County **Rio Arriba**

Lease Well No. Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7460 API NO. 30-039-25639 Federal  State (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower 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 Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 786 psi (see attachment)	a	a. 1637 psi (see attachment)
	(Original) b. 1273 psi (see attachment)	b	b. 2927 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1173		BTU 1035
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  * 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:
	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: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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?  Yes  No  
If not, have all working, overriding, and royalty interests been notified by certified mail?  Yes  No  
Have all offset operators been given written notice of the proposed downhole commingling?  Yes  No
11. Will cross-flow occur?  Yes  No If yes, are fluids compatible, will the formations not be damaged, will any cross-flow production be recovered, and will the allocation formula be reliable.  Yes  No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other?  Yes  No
13. Will the value of production be decreased by commingling?  Yes  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.  Yes  No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10695

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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Sean C. Wolverton TITLE Production Engineer DATE 05/27/97

TYPE OR PRINT NAME Sean C. Wolverton 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., Aztec, 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-10  
 Revised February 21, 199  
 Instructions on bac  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7460	Property Name San Juan 28-5 Unit		Well Number 93M
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6661'

<sup>10</sup> Surface Location

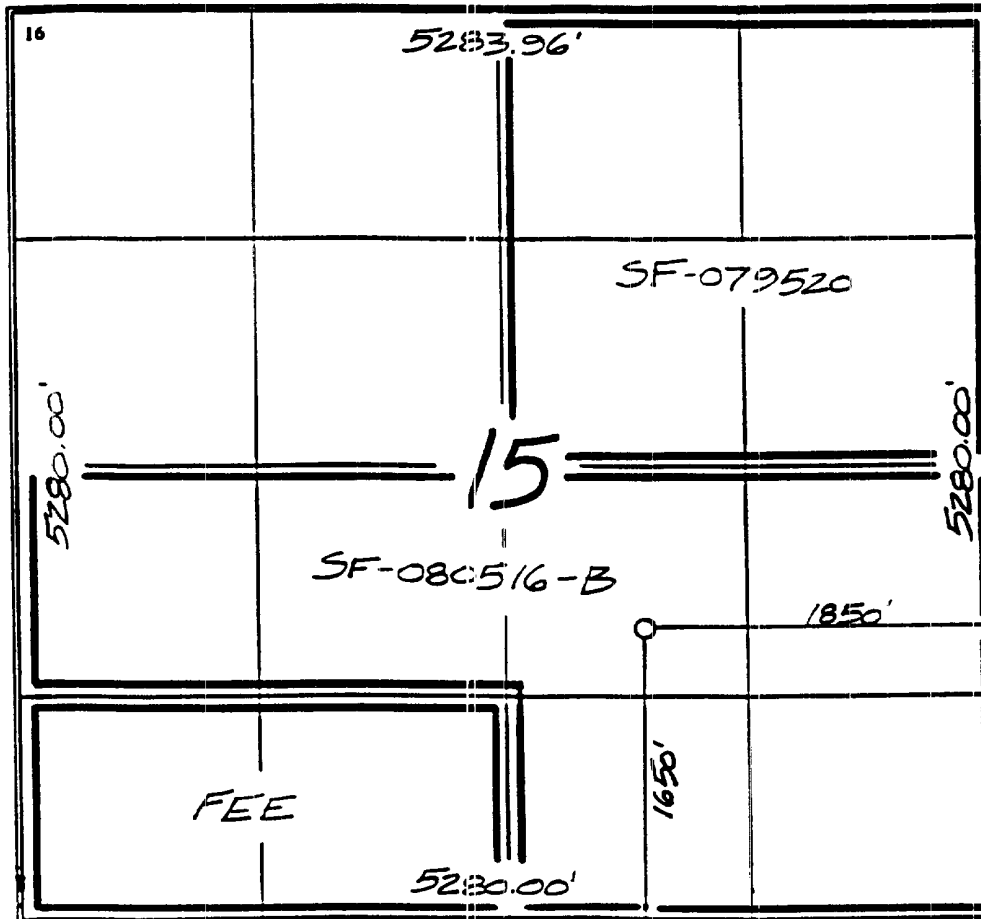
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	15	28-N	5-W		1650	South	1850	East	R.A.

<sup>11</sup> Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres MV-S/320 DK-E/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<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.

Signature  
 Peggy Bradfield  
 Printed Name  
 Regulatory Administrator  
 Title

Date

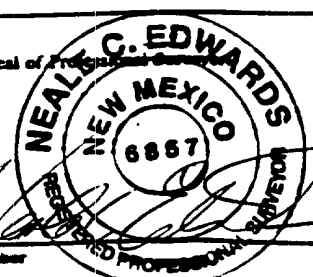
<sup>18</sup> SURVEYOR CERTIFICATION

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.

11/16/96

Date of Survey

Signature and Seal of Professional Surveyor



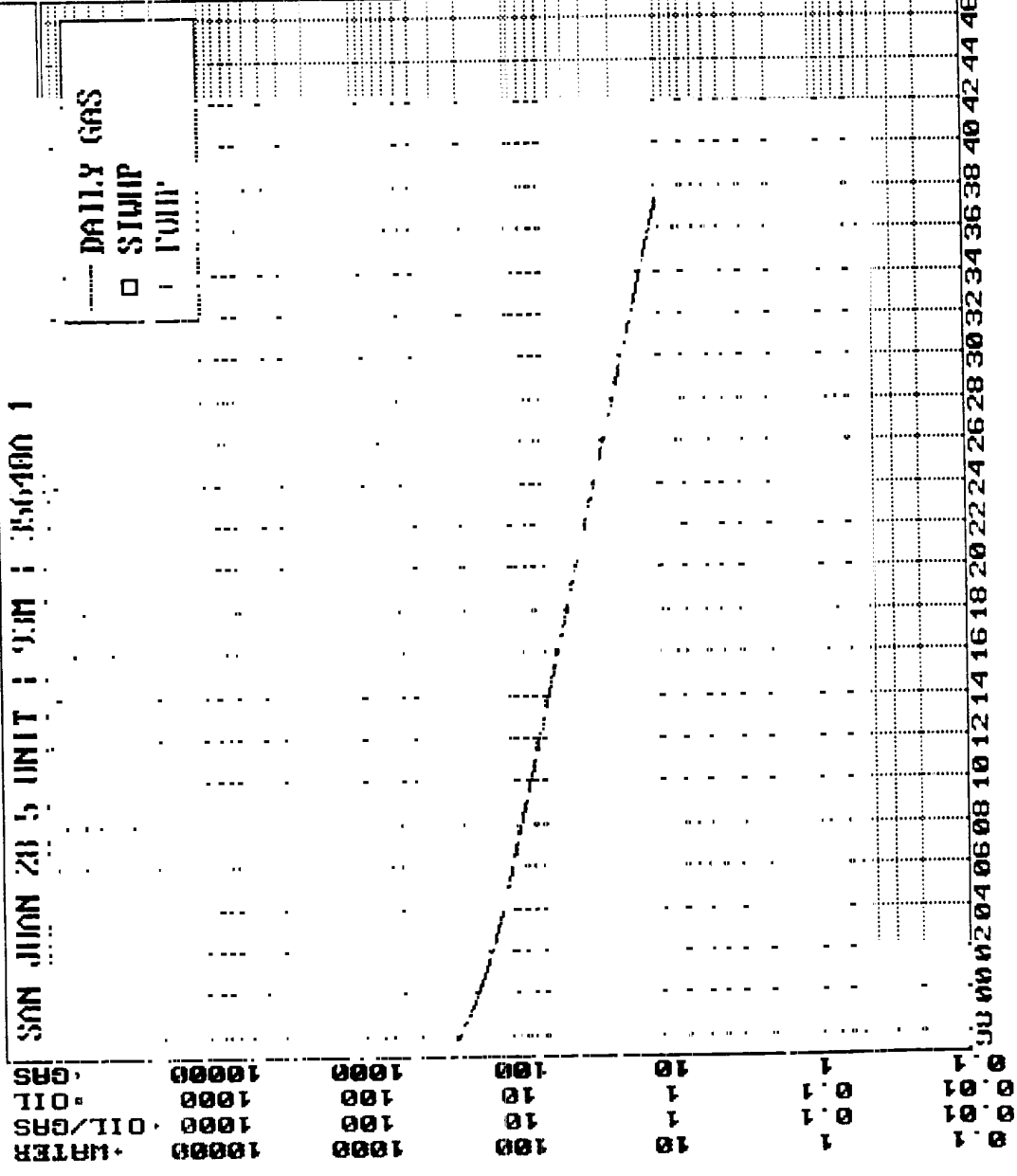
6857  
 Certificate Number

*Barin Tubesto*

Prop 273

- GAS Mcf/d
- OIL Bbl/d
- OIL/GAS
- WATER Bbls/d

Rate Time  
 Semi Log

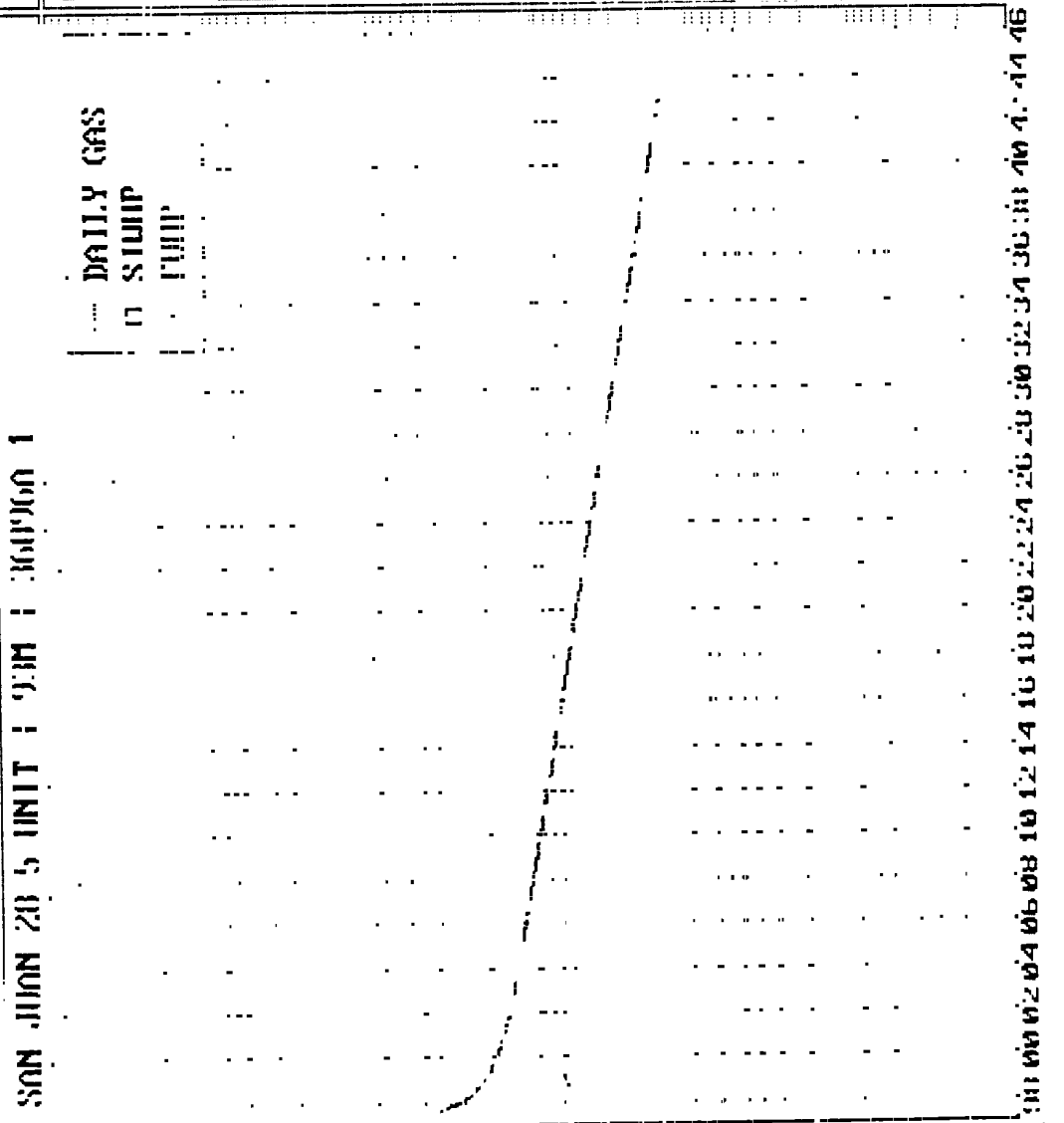


SUN JUN 28 5 UNIT : 9:00 : 356400 1

JUN 20 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46

*Balance Meterwide*

Prop 187  
 GAS Mcf/d  
 OIL Bbl/d  
 OIL/GAS  
 WATER Bbls/d  
 RateTime  
 Semi Log



Time	WATER	OIL/GAS	OIL	GAS
20 00	10000	1000	1000	10000
20 04	1000	100	100	1000
20 08	100	10	10	100
20 12	10	1	1	10
20 16	1	0.1	0.1	1
20 20	1	0.1	0.1	1
20 24	1	0.1	0.1	1
20 28	1	0.1	0.1	1
20 32	1	0.1	0.1	1
20 36	1	0.1	0.1	1
20 40	1	0.1	0.1	1
20 44	1	0.1	0.1	1
20 48	1	0.1	0.1	1

SUN JUN 20 5 UNIT 5 TIME 1 360000 1

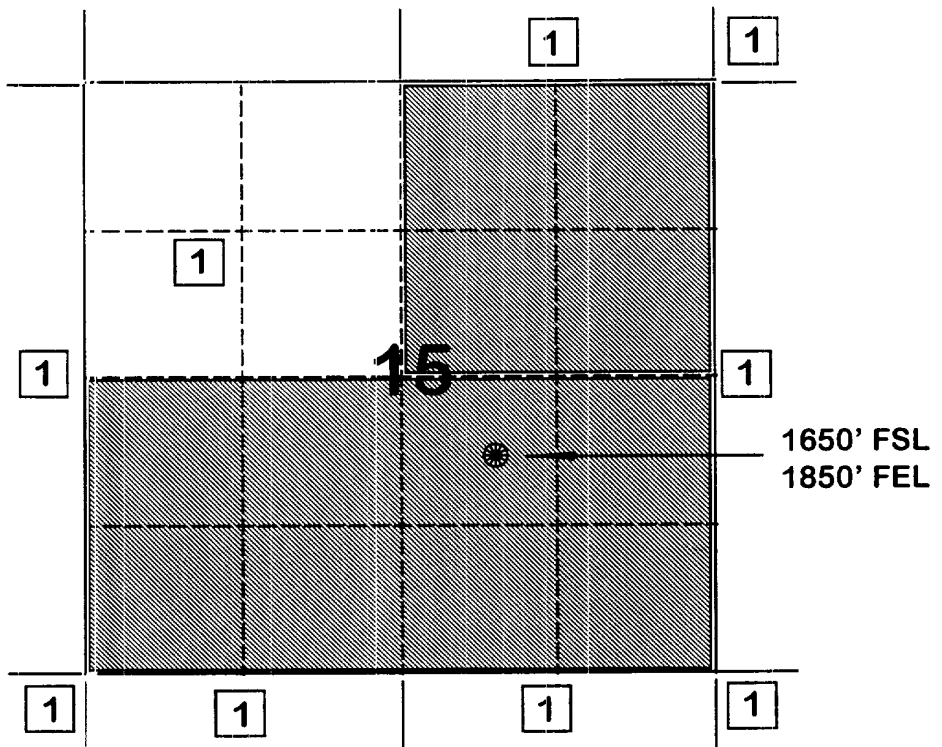
00 04 08 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46

**BURLINGTON RESOURCES OIL AND GAS COMPANY**

**San Juan 28-5 Unit #93M  
OFFSET OPERATOR \ OWNER PLAT**

**Mesaverde (S/2)/Dakota (E/2) Formations Commingle Well**

**Township 28 North, Range 5 West**



**1) Burlington Resources Oil and Gas Company**

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 S000

0008 CHROMATOGRAPH TEST MAIN SCREEN

15:09:31.0 05/18/9

FUNCTION (A,C,D,I) i \*\* DATA AT TEST PRESSURE UNLESS NOTED \*\*  
MP NUMBER 89133 SAN JUAN 28-5 UNIT 93  
EFFECTIVE DATE 19970201  
REGION CD 42 SAN JUAN  
MP TYPE CODE 10 GAS METER - WELLHEAD SALES

-----  
SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----  
SAMPLE DATE 19961229 --- (AT 14.73 PSIG) --  
SAMPLE LINE PRESSURE (PSIG) \_\_\_\_\_ WET 1035.675 DRY 1054.000  
SAMPLE LINE TEMPERATURE (DEG F) \_\_\_\_\_  
TEST DATE ----- BTU/CF -----  
TEST PRESSURE (PSIG) 14.730 WET 1035.675 DRY 1054.000  
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR \_\_\_\_\_  
TEST LIFE (MONTHS) 6  
TESTER SOURCE BA NUMBER 098795 EL PASO FIELD SERVICES  
TEST PURPOSE CODE \_\_\_\_\_

-----  
03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST  
11=PREV SCR 12=MAIN MENU 20=NEXT REC  
21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE  
B MY JOB LU #2

OPR008M2 S000

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

15:09:36.3 05/18/9

GPM \*\* DATA AT 14.730 PSIG UNLESS NOTED \*\*  
MOL % (AT 14.73)

HYDROGEN	_____		MP NUMBER	89133
HELIUM	_____		EFFECTIVE DATE	19970201
NITROGEN	0.20			
OXYGEN	_____			
HYDROGEN SULFIDE	_____		-- GASOLINE CONTENT (GPM) --	
CARBON DIOXIDE	1.55		26/70 GASOLINE	_____
METHANE	93.23		100% PROPANE	_____
ETHANE	3.77	1.0085	EXCESS BUTANES	_____
PROPANE	0.58	0.1598	TOTAL	_____
ISO-BUTANE	0.17	0.0556		
N-BUTANE	0.15	0.0473		
ISO-PENTANE	0.10	0.0366	----- SPECIFIC GRAVITY -----	
N-PENTANE	0.05	0.0181	CALCULATED	0.6070
HEXANE	_____		MEASURED	_____
HEXANE PLUS	0.20	0.0873		
HEPTANE PLUS	_____		SULPHUR GRAINS / 100 CU FT	_____
TOTALS	100.00	1.4132		

03=MAIN SCREEN  
B MY JOB

NUM LU #2

24=HELP

PA1=TERMINATE

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 S001

0008 CHROMATOGRAPH TEST MAIN SCREEN

20:11:36.1 05/20/9

FUNCTION (A,C,D,I) i \*\* DATA AT TEST PRESSURE UNLESS NOTED \*\*  
MP NUMBER 71318 SAN JUAN 28-5 UNIT 10  
EFFECTIVE DATE 19970201  
REGION CD 42 SAN JUAN  
MP TYPE CODE 10 GAS METER - WELLHEAD SALES

-----  
SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----  
SAMPLE DATE 19961231 --- (AT 14.73 PSIG) --  
SAMPLE LINE PRESSURE (PSIG) \_\_\_\_\_ WET 1173.241 DRY 1194.000  
SAMPLE LINE TEMPERATURE (DEG F) \_\_\_\_\_  
TEST DATE ----- BTU/CF -----  
TEST PRESSURE (PSIG) 14.730 WET 1173.241 DRY 1194.000  
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR \_\_\_\_\_  
TEST LIFE (MONTHS) 6  
TESTER SOURCE BA NUMBER 098795 EL PASO FIELD SERVICES  
TEST PURPOSE CODE \_\_\_\_\_

-----  
03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST  
11=PREV SCR 12=MAIN MENU 20=NEXT REC  
21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE  
B MY JOB LU #3

OPR008M2 S001

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

20:11:40.3 05/20/9

GPM \*\* DATA AT 14.730 PSIG UNLESS NOTED \*\*  
MOL % (AT 14.73)  
HYDROGEN \_\_\_\_\_ MP NUMBER 71318  
HELIUM \_\_\_\_\_ EFFECTIVE DATE 19970201  
NITROGEN 0.36  
OXYGEN \_\_\_\_\_  
HYDROGEN SULFIDE \_\_\_\_\_ -- GASOLINE CONTENT (GPM) --  
CARBON DIOXIDE 0.94 26/70 GASOLINE \_\_\_\_\_  
METHANE 83.76 100% PROPANE \_\_\_\_\_  
ETHANE 8.72 2.3326 EXCESS BUTANES \_\_\_\_\_  
PROPANE 3.56 0.9811 TOTAL \_\_\_\_\_  
ISO-BUTANE 0.67 0.2192  
N-BUTANE 0.94 0.2964  
ISO-PENTANE 0.35 0.1281 ----- SPECIFIC GRAVITY -----  
N-PENTANE 0.25 0.0906 CALCULATED 0.6890  
HEXANE \_\_\_\_\_ MEASURED \_\_\_\_\_  
HEXANE PLUS 0.45 0.1963  
HEPTANE PLUS \_\_\_\_\_  
TOTALS 100.00 4.2443 SULPHUR GRAINS / 100 CU FT \_\_\_\_\_

-----  
03=MAIN SCREEN  
B MY JOB

NUM LU #3

24=HELP

PA1=TERMINATE

**San Juan 28-5 Unit #93M**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**

Version 1.0 3/13/94

<b>Mesaverde</b>	<b>Dakota</b>																																																				
<b><u>MV-Current</u></b>	<b><u>DK-Current</u></b>																																																				
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.689</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.36</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.94</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0.00</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">2.375</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">5458</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">142</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">682</td></tr> <tr><td> </td><td></td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">785.9</td></tr> </table>	GAS GRAVITY	0.689	COND. OR MISC. (C/M)	C	%N2	0.36	%CO2	0.94	%H2S	0.00	DIAMETER (IN)	2.375	DEPTH (FT)	5458	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	142	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	682	 		BOTTOMHOLE PRESSURE (PSIA)	785.9	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.607</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.20</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">1.55</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0.00</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">2.375</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">7988</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">164</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">1356</td></tr> <tr><td> </td><td></td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">1636.9</td></tr> </table>	GAS GRAVITY	0.607	COND. OR MISC. (C/M)	C	%N2	0.20	%CO2	1.55	%H2S	0.00	DIAMETER (IN)	2.375	DEPTH (FT)	7988	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	164	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	1356	 		BOTTOMHOLE PRESSURE (PSIA)	1636.9
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BOTTOMHOLE PRESSURE (PSIA)	1273.4																																																				
GAS GRAVITY	0.607																																																				
COND. OR MISC. (C/M)	C																																																				
%N2	0.20																																																				
%CO2	1.55																																																				
%H2S	0.00																																																				
DIAMETER (IN)	2.375																																																				
DEPTH (FT)	7988																																																				
SURFACE TEMPERATURE (DEG F)	60																																																				
BOTTOMHOLE TEMPERATURE (DEG F)	164																																																				
FLOWRATE (MCFPD)	0																																																				
SURFACE PRESSURE (PSIA)	2412																																																				
BOTTOMHOLE PRESSURE (PSIA)	2927.2																																																				



D/C

Page No.: 1

Print Time: Tue May 20 10:52:05 1997

Property ID: 1816

Property Name: SAN JUAN 28-5 UNIT | 93 | 44729A-1

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

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--DATE--   ---CUM_GAS-- M SIWHP
■■■■■■■■■■ ■■■■■■Mcf■■■■■■ ■■■■Psi■■■■
```

11/27/74	0	2412.0	<i>← initial</i>
12/11/74	0	2425.0	
02/18/75	22557	2173.0	
04/09/76	194244	1753.0	
06/15/77	345741	1672.0	
06/05/79	567911	1622.0	
05/05/81	742710	1544.0	
11/02/83	897805	1407.0	
09/26/85	1005132	1182.0	
08/02/88	1082728	1372.0	
05/08/90	1165642	1355.0	<i>← current</i>

MV

Page No.: 1

Print Time: Tue May 20 14:38:49 1997

Property ID: 3910

Property Name: SAN JUAN 28-5 UNIT | 10 | 49498A-1

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

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--DATE--  ---CUM GAS--  M SIWHP
■■■■■■■■■■ ■■■■■■Mcf■■■■■■ ■■■■Psi■■■■

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DATE	CUM GAS (Mcf)	SIWHP (Psi)
01/16/56	0	1894.0
02/07/56	0	1095.0 ← initial
08/31/56	32000	810.0
07/30/57	88000	692.0
11/06/58	141000	740.0
08/06/59	158000	812.0
08/14/60	182000	820.0
12/22/60	200000	670.0
08/13/61	219000	699.0
05/08/62	244000	679.0
07/16/63	278000	676.0
09/28/64	310000	667.0
09/01/65	355000	671.0
08/19/66	394000	614.0
03/07/67	416000	614.0
03/01/68	453000	618.0
08/19/69	512047	539.0
06/19/70	547811	514.0
04/27/71	581762	472.0
05/15/72	629670	450.0
05/02/74	724333	364.0
04/09/76	801123	374.0
05/16/78	860634	537.0
06/10/80	911241	533.0
08/03/82	973112	579.0
08/03/84	1029059	545.0
04/01/87	1081065	652.0
03/18/91	1155917	670.0
09/10/91	1164791	682.0 ← current!

SAN JUAN 28-5 UNIT

<p>7  </p>	<p>8  </p>	<p>9  </p>	<p>10  </p>	<p>11  </p>	<p>12  </p>
<p>13  </p>	<p>14  </p>	<p>15  </p>	<p>16  </p>	<p>17  </p>	<p>18  </p>
<p>19  </p>	<p>20  </p>	<p>21  </p>	<p>22  </p>	<p>23  </p>	<p>24  </p>
<p>25  </p>	<p>26  </p>	<p>27  </p>	<p>28  </p>	<p>29  </p>	<p>30  </p>
<p>31  </p>	<p>32  </p>	<p>33  </p>	<p>34  </p>	<p>35  </p>	<p>36  </p>

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.



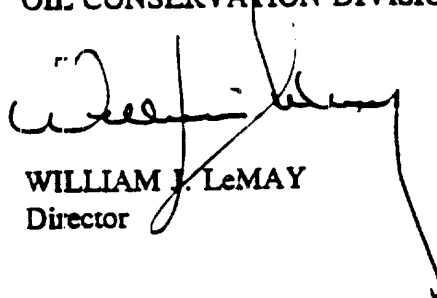
(2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 28-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify 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

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