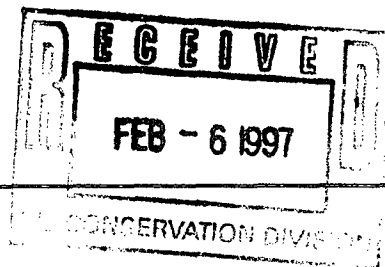


# BURLINGTON RESOURCES

SAN JUAN DIVISION  
January 31, 1997



DHC 2/26/97

1453

SENT FEDERAL EXPRESS

Mr. William LeMay  
New Mexico Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Re: San Juan 27-4 Unit #39  
846'FSL, 1693'FWL Section 5, T-27-N, R-4-W, Rio Arriba County, NM  
API #30-039-20145

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota in the subject well. This well was originally drilled as a Dakota; it is intended to add the Mesa Verde and commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for the Dakota for at least one year;
4. Notification list of offset operators - Burlington is the offset operator;
5. Notification list of interest owners;
6. Shut in wellhead pressure and calculated down hole pressure;
7. Nine-section plats for the Dakota and Mesa Verde

If you are a working, overriding or royalty interest owner in either of the above described pools, you are being notified of this application as a requirement of the New Mexico Oil Conservation Division Rule #303C. Meridian Oil Inc, as operator, believes this application will be in the best interest of all owners. If you have no objection to this commingling application, you do not have to respond to this notification. Upon establishment of production from this well, you will receive your proportionate share of revenues from the pool in which you own an interest according to the proposed allocation formula.

The Division Director may approve the proposed commingling within 20 days after the receipt of this application, in the absence of valid objection from any offset operator or any interest owner, where ownership is not common in the zones to be commingled.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield  
Regulatory/Compliance Administrator  
encs.

xc: Bureau of Land Management

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

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

APPROVAL PROCESS :  
☒ Administrative ☐ Hearing  
EXISTING WELLBORE  
☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator Address  
San Juan 27-4 Unit 39 N 5-27-4 Rio Arriba  
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7453 API NO. 30-039-20145 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)	5369-5978 (est)		7896-8100
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: Gas & Oil - Flowing: All Gas Zones: Estimated or Measured Original	(Current) a. 1180 (est)  (Original) b. 1180 (est) psi	a.  b.	a. 1018 psi  b. 3091 psi
6. Oil Gravity (°API) or Gas BTU Content	903 (est)		1040
7. Producing or Shut-In?	not completed yet		producing
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 rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 12-29-96 Rates: 29 mcf/d; 0 bopd; 0 bwpd
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-flowed 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). \_\_\_\_\_
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  TITLE Production Engineer DATE 02/04/97  
TYPE OR PRINT NAME Lori L. Lantz TELEPHONE NO. ( 505 ) 326-9700

District I  
PO Box 1988, Hobbs, NM 88241-1988  
District II  
PO Drawer DD, Arcoma, NM 88211-0719  
District III  
1000 Nio Hrasne Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Mineral & Natural Resources Department

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

Form C-10  
Revised February 21, 199  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APL Number 30-039-20145		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7452	Property Name San Juan 27-4 Unit		Well Number 39
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6815'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
N	5	27-N	4-W		846	South	1693	West	R.A.

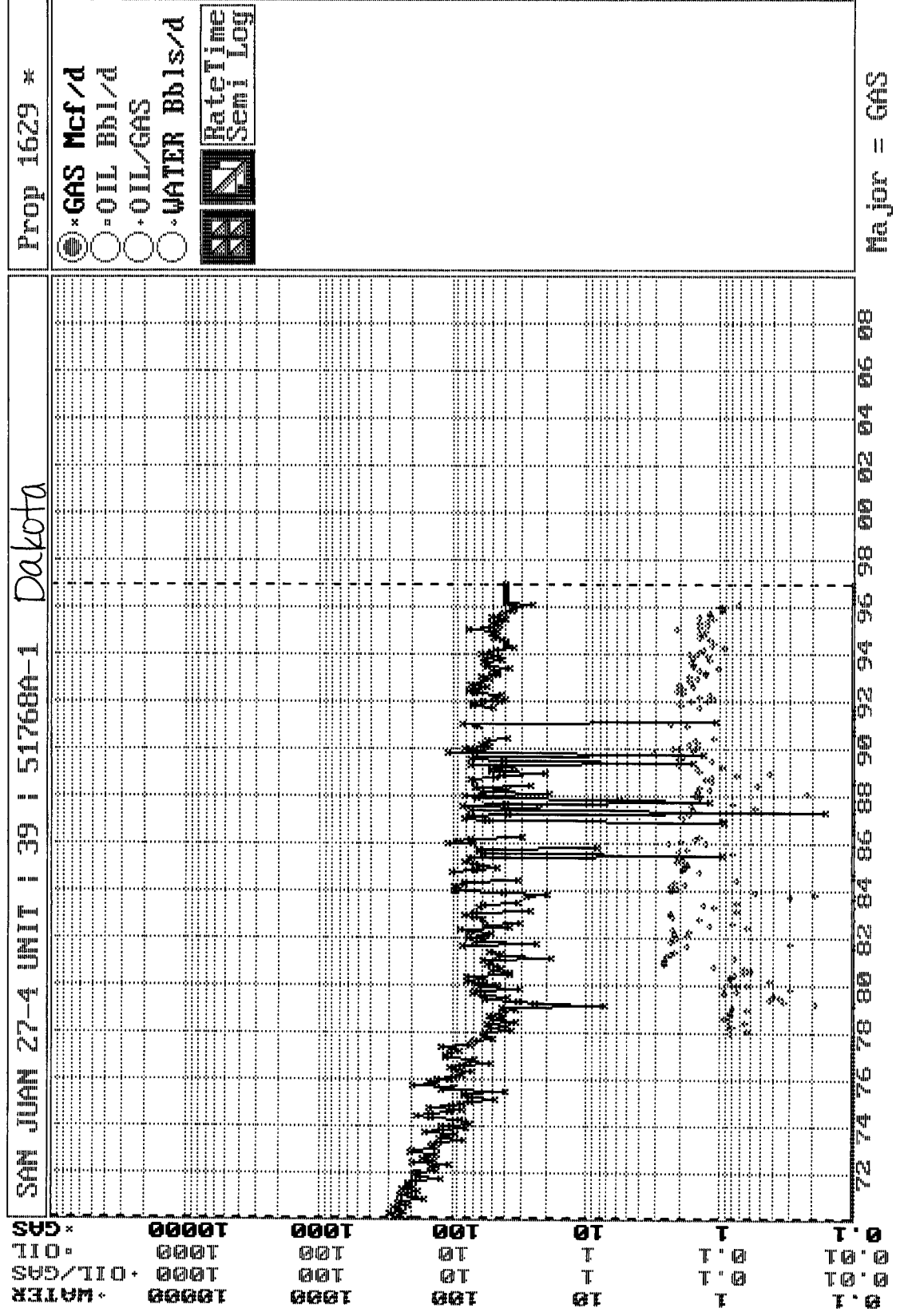
11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres MV-W/319.59 DK-W/319.59	13 Joint or Infill	14 Consolidation Code	15 Order No.
--	--------------------	-----------------------	--------------

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

	Not resurveyed, prepared from a plat by Russell H McNeace dated 7-18-68.		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Peggy Bradford</i></p> <p>Signature Peggy Bradford</p> <p>Printed Name Regulatory Administrator</p> <p>Title 10-23-96</p> <p>Date</p>
		<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>10/13/96</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>NEED C. EDWARDS</i></p> <p>8857</p> <p>8857</p> <p>Certification Number</p>	

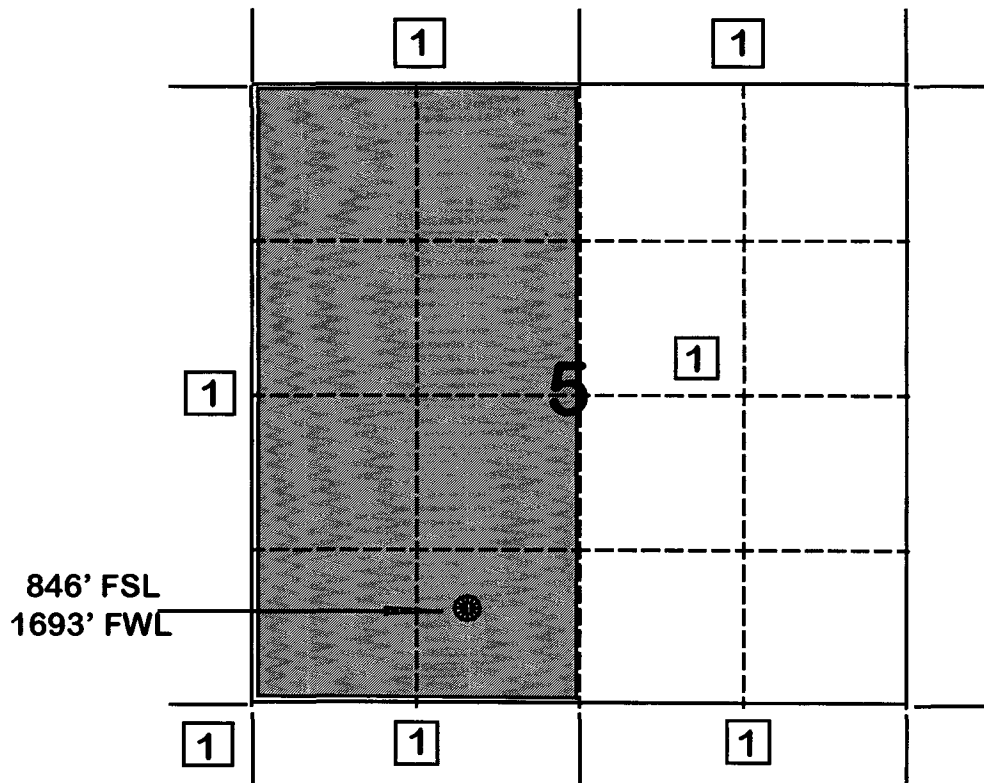


***BURLINGTON RESOURCES OIL AND GAS COMPANY***

**San Juan 27-4 Unit #39  
OFFSET OPERATOR \ OWNER PLAT**

**Mesaverde/Dakota Formations Commingle Well**

**Township 27 North, Range 4 West**



**1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.**

SAN JUAN 27-4 UNIT  
W/GW/ORRI RI OWNERS

NAME	ADDRESS	ADDRESS 1	ADDRESS 2	CITY	ST	ZIP
AMALIA S SANCHEZ	FIRST NATL BK SANTA FE AGENT	C/O BANK OF OKLAHOMA AGENT	PO BOX 1588	TULSA	OK	74101
BEDROCK LIMITED PARTNERSHIP	PO BOX 36480			ALBUQUERQUE	NM	87176
BURLINGTON RESOURCES O&G CO	801 CHERRY ST			FORT WORTH	TX	76102
CINCO GENERAL PARTNERSHIP	PO BOX 451			ALBUQUERQUE	NM	871030451
DEREK PETER VENEZIA	BANK OF AMERICA	PO BOX 85058		SAN DIEGO	CA	921865058
EDNA E MORRELL LIVG TRUST	C/O NORWEST BANK NEW MEXICO NA	PO BOX 2468		ROSWELL	NM	882022468
ELEANOR G HAND	9 ANSLEY DR NE			ATLANTA	GA	30309
GERALD F HARRINGTON	BOATMENS NATL BK OF DES MOINES	ATTN TRUST OFFICER PETERSON	PO BOX 817	DES MOINES	IA	503040817
HARCO LTD PTSHIP	PO BOX 216			ROSWELL	NM	88202
JAMES V HARRINGTON	PO BOX 13535			ALBUQUERQUE	NM	87192
JOHN C MEADOWS	6053 EXPRESSWAY			JACKSONVILLE	FL	32211
JOSEPH R ABRAHAM	5517 WILLOW LN			DALLAS	TX	75230
JUAN R MONTANO	PO BOX 241			TIERRA AMARILLA	NM	87575
LESLIE C TATUM	PO BOX 7392			N KANSAS CITY	MO	64116
LMA ROYALTIES LTD	PO BOX 1778			COLORADO SPRINGS	CO	809011778
MANUEL A SANCHEZ TRUST	THE FIRST NATIONAL BANK OF SANTA FE	C/O BANK OF OKLAHOMA AGENT	PO BOX 1588	TULSA	OK	74101
MARY F ROBERTS	PO BOX 15940			SANTA FE	NM	87506
MARY JO WELLS	5250 WOODLAWN AVE			CHEVY CHASE	MD	20815
MARY JONE CHAPPELL	PO BOX 11970			ALBUQUERQUE	NM	87192
MIKE C ABRAHAM TRUSTEE	711 AMHERST DR SE			ALBUQUERQUE	NM	87106
MINERALS MANAGEMENT SERVICE	ROYALTY MANAGEMENT PROGRAM	PO BOX 5810		DENVER	CO	802175810
MISS M F ABRAHAM	906 FOUR HILLS RD SE			ALBUQUERQUE	NM	87128
PATRICIA ANN ASHBURN	46 CARIBE WAY			VERO BEACH	FL	32963
PATRICIA P SCHIEFFER	C/O J THOMAS SCHIEFFER	1000 BALLPARK WAY #300		ARLINGTON	TX	76011
ROBBYE F BAKER	1575 BELVIDERE APT #125			EL PASO	TX	79912
ROBERT P & ANNA D EARNEST TR	KATHLEEN EARNEST RIOS TRUSTEE	EARNEST TRUST DTD 5/4/79	2404 LORING #131	SAN DIEGO	CA	921092347
ROBERT S TATUM	TATUM FAMILY AGENCY #4269	C/O NATIONS BK OF TX NA	PO BOX 840738	DALLAS	TX	752840738
ROMERO FAMILY LTD PARTNERSHIP	ALICIA V ROMERO GEN PARTNER	PO BOX 5155		SANTA FE	NM	87502
SCOTT ANTHONY VENEZIA	ACCT TYPE DDA	BANK OF AMERICAN	PO BOX 85058	SAN DIEGO	CA	921865058
TEMPE LTD PARTNERSHIP	C/O F & M K HARRINGTON	652 FEARRINGTON POST		PITTSBORO	NC	27312
UW FOSTER MORRELL DECD	UW FOSTER MORRELL DECD 11-1065	C/O NORWEST BANK NEW MEXICO NA	PO BOX BOX 2468	ROSWELL	NM	882022468
UNION OIL CO OF CALIF	UNION OIL CO OF CALIF	ATTN REVENUE ACCOUNTING	PO BOX 841055	DALLAS	TX	752841055
WILLIAM B GREENE	812 GRANDVIEW DRIVE SE			ALBUQUERQUE	NM	87108

FDG055M4 G024  
START OF DATA  
DP NO: 51768A  
SAN JUAN 27-4 UNIT  
S

WELL PRODUCTION 8/8'S VOLUME

12/31/96 11:53:41

DATE: 961229 (YYMMDD FORMAT)

39 SCROLL FORWARD BY DATE: \_

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)
-	12/29/96	24.0	0.00 0.00	29 725	0.00 0.00
-	12/28/96	24.0	0.00 0.00	29 696	0.00 0.00
-	12/27/96	24.0	0.00 0.00	29 667	0.00 0.00
-	12/26/96	24.0	0.00 0.00	29 638	0.00 0.00
-	12/25/96	24.0	0.00 0.00	29 609	0.00 0.00
-	12/24/96	24.0	0.00 0.00	29 580	0.00 0.00
-	12/23/96	24.0	0.00 0.00	29 551	0.00 0.00
-	12/22/96	24.0	0.00 0.00	29 522	0.00 0.00
-	12/21/96	24.0	0.00 0.00	29 493	0.00 0.00
-	12/20/96	24.0	0.00 0.00	29 464	0.00 0.00
-	12/19/96	24.0	0.00 0.00	29 435	0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU  
B MY JOB

PF6=NRI PF10=BROWSE MENU  
ENTER=BACKWARDS  
LU #26

PF11=INQ/UPDATE MENU  
PF24=HELP

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 G024 0008 CHROMATOGRAPH TEST MAIN SCREEN

11:44:44.2 12/31/96

FUNCTION (A,C,D,I) i \*\* DATA AT TEST PRESSURE UNLESS NOTED \*\*  
MP NUMBER 75926 SAN JUAN 27-4 UNIT 39  
EFFECTIVE DATE 19940201  
REGION CD 42 SAN JUAN  
MP TYPE CODE 10 GAS METER - WELLHEAD SALES

-----  
SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS ----- BTU/CF -----  
SAMPLE DATE 19940216 --- (AT 14.73 PSIG) --  
SAMPLE LINE PRESSURE (PSIG) WET 1021.918 DRY 1040.000  
SAMPLE LINE TEMPERATURE (DEG F) -----  
TEST DATE ----- BTU/CF -----  
TEST PRESSURE (PSIG) 14.730 WET 1021.918 DRY 1040.000  
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR -----  
TEST LIFE (MONTHS) 6  
TESTER SOURCE BA NUMBER 038689 PETROLEUM LAND CORP  
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 #26

OPR008M2 G024

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

11:44:51.2 12/31/96

GPM \*\* DATA AT 14.730 PSIG UNLESS NOTED \*\*  
MOL % (AT 14.73)  
HYDROGEN MP NUMBER 75926  
HELIUM EFFECTIVE DATE 19940201  
NITROGEN 0.16  
OXYGEN  
HYDROGEN SULFIDE -- GASOLINE CONTENT (GPM) --  
CARBON DIOXIDE 1.61 26/70 GASOLINE  
METHANE 95.01 100% PROPANE  
ETHANE 2.01 0.5377 EXCESS BUTANES  
PROPANE 0.47 0.1295 TOTAL  
ISO-BUTANE 0.19 0.0621  
N-BUTANE 0.16 0.0504  
ISO-PENTANE 0.11 0.0402  
N-PENTANE 0.05 0.0181  
HEXANE  
HEXANE PLUS 0.23 0.1003  
HEPTANE PLUS  
TOTALS 100.00 0.9383  
-----  
SULPHUR GRAINS / 100 CU FT -----  
-----  
03=MAIN SCREEN 24=HELP PA1=TERMINATE  
B MY JOB NUM LU #26

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 G024 0008 CHROMATOGRAPH TEST MAIN SCREEN

11:45:11.9 12/31/96

FUNCTION (A,C,D,I) i \*\* DATA AT TEST PRESSURE UNLESS NOTED \*\*  
MP NUMBER 71324 SAN JUAN 27-4 UNIT NP 2  
EFFECTIVE DATE 19940201  
REGION CD 42 SAN JUAN



MP TYPE CODE 10 GAS METER - WELLHEAD SALES

SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----  
SAMPLE DATE 19940224 --- (AT 14.73 PSIG) --  
SAMPLE LINE PRESSURE (PSIG) WET 887.300 DRY 903.000  
SAMPLE LINE TEMPERATURE (DEG F) -----  
TEST DATE ----- BTU/CF -----  
TEST PRESSURE (PSIG) 14.730 WET 887.300 DRY 903.000  
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR -----  
TEST LIFE (MONTHS) 6  
TESTER SOURCE BA NUMBER 038689 PETROLEUM LAND CORP  
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 #26

OPR008M2 G024 0008 CHROMATOGRAPH GAS SAMPLE DETAIL 11:45:30.9 12/31/96

GPM \*\* DATA AT 14.730 PSIG UNLESS NOTED \*\*  
MOL % (AT 14.73)  
HYDROGEN ----- MP NUMBER 71324  
HELIUM ----- EFFECTIVE DATE 19940201  
NITROGEN 0.05  
OXYGEN -----  
HYDROGEN SULFIDE -----  
CARBON DIOXIDE 11.22 -- GASOLINE CONTENT (GPM) --  
METHANE 88.42 26/70 GASOLINE -----  
ETHANE 0.24 0.0642 100% PROPANE -----  
PROPANE 0.04 0.0110 EXCESS BUTANES -----  
ISO-BUTANE 0.01 0.0033 TOTAL -----  
N-BUTANE 0.01 0.0032  
ISO-PENTANE -----  
N-PENTANE -----  
HEXANE -----  
HEXANE PLUS 0.01 0.0044 ----- SPECIFIC GRAVITY -----  
HEPTANE PLUS ----- CALCULATED 0.6650  
TOTALS 100.00 0.0861 MEASURED -----  
SULPHUR GRAINS / 100 CU FT -----

03=MAIN SCREEN 24=HELP PA1=TERMINATE  
B MY JOB NUM LU #26

San Juan 27-4 Unit  
Initial Pressures

DP_NO	LEASE	WELL_ID	ZONES	LOCATION	SPUD_DATE	PRESSURE
54067A-1	SAN JUAN 27-4 UNIT	121A	CMPLP	027N004W18I	7/10/85	932
54070A-1	SAN JUAN 27-4 UNIT	133A	CPLP	027N004W27E	6/21/85	1121
54069A-1	SAN JUAN 27-4 UNIT	132A	CPLP	027N004W27I	6/12/85	1093
54071A-1	SAN JUAN 27-4 UNIT	153	CMPLP	027N004W02C	5/29/85	1041
<b>Average</b>						<b>1047</b>
<b>1985 Average</b>						<b>1047</b>
<b>Pressure Drop / Year</b>						<b>2.5</b>
<b>Years</b>						<b>12</b>
<b>Additional Pressure Drop</b>						<b>30</b>
<b>Estimated 1997 Initial Pressure</b>						<b>1017</b>

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.599
COND. OR MISC. (C/M)	M
%N2	0.16
%CO2	1.61
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	7998
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	190
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2576
BOTTOMHOLE PRESSURE (PSIA)	3091.2

San Juan 27-4 Unit #39 - Dakota  
Initial Bottomhole Pressure

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.599
COND. OR MISC. (C/M)	M
%N2	0.16
%CO2	1.61
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	7998
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	190
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	859
BOTTOMHOLE PRESSURE (PSIA)	1018.4

San Juan 27-4 Unit #39 - Dakota  
Current Bottomhole Pressure

**FLOWING AND STATIC BHP  
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	<b>0.665</b>
COND. OR MISC. (C/M)	<b>M</b>
%N2	<b>0.05</b>
%CO2	<b>11.22</b>
%H2S	<b>0</b>
DIAMETER (IN)	<b>2.5</b>
DEPTH (FT)	<b>5674</b>
SURFACE TEMPERATURE (DEG F)	<b>60</b>
BOTTOMHOLE TEMPERATURE (DEG F)	<b>120</b>
FLOWRATE (MCFPD)	<b>0</b>
SURFACE PRESSURE (PSIA)	<b>1017</b>
BOTTOMHOLE PRESSURE (PSIA)	<b>1179.6</b>

San Juan 27-4 Unit #39 - Mesaverde (EST)  
Initial & Current Bottomhole Pressure

SAN JUAN 27-4 UNIT #39  
SECTION 5N, T27N, R4W  
RIO ARRIBA COUNTY, NM

