

BURLINGTON RESOURCES

SAN JUAN DIVISION
January 31, 1997

SENT FEDERAL EXPRESS

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

RECEIVED
FEB - 6 1997
OIL CON. DIV.
DIR. 3

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 *N*

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 87505-6429Form 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: Estimated Current Gas & Oil - Flowing: Measured Current 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 of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 12-29-98 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.

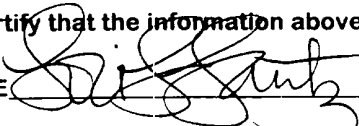
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. 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 ☐ No13. 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 1788, Hobbs, NM 88241-1788
District II
P.O. Drawer DD, Artesia, NM 88211-0719
District III
1008 Rio Hondo 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-
Revised February 21, 1
Instructions on b
Submit to Appropriate District Of
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPC

WELL LOCATION AND ACREAGE DEDICATION PLAT

API 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
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6815'

10 Surface Location

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

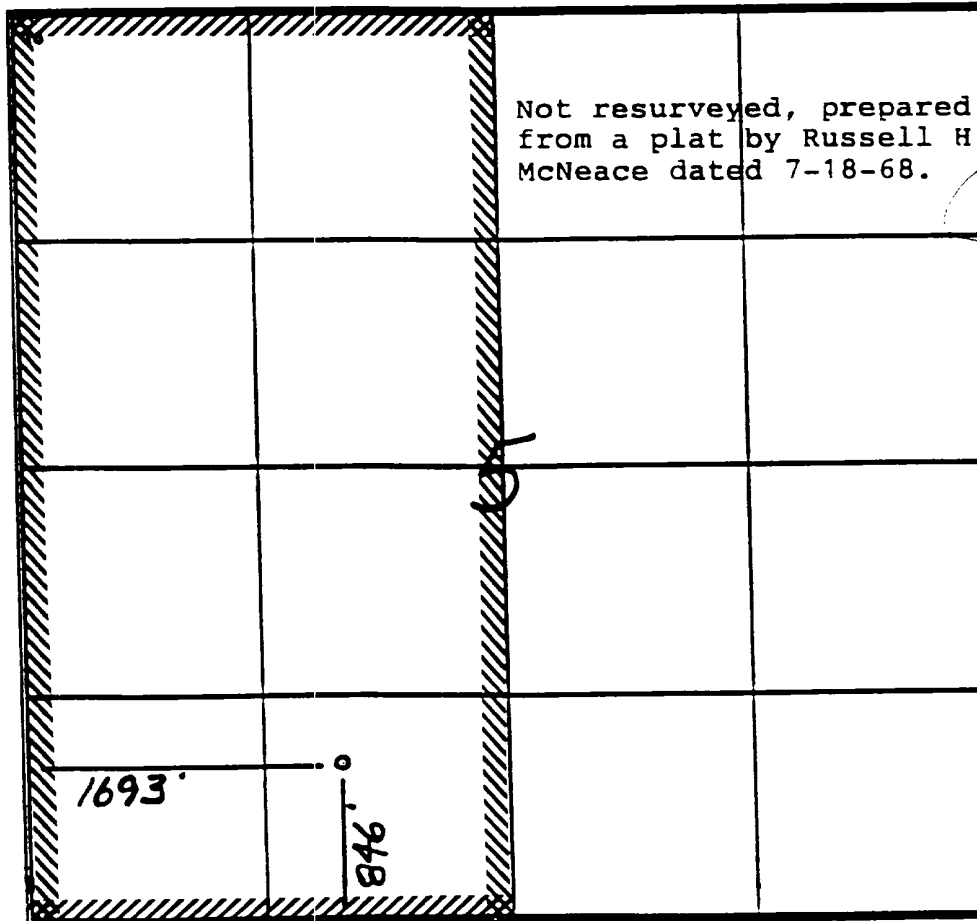
12 Dedicated Acre
MV-W/319 59
OK-W/319 59

13 Joint or Infill

14 Consideration Code

15 Order No.

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

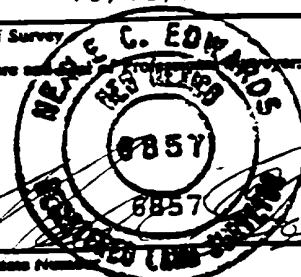
Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
10-23-96
Date

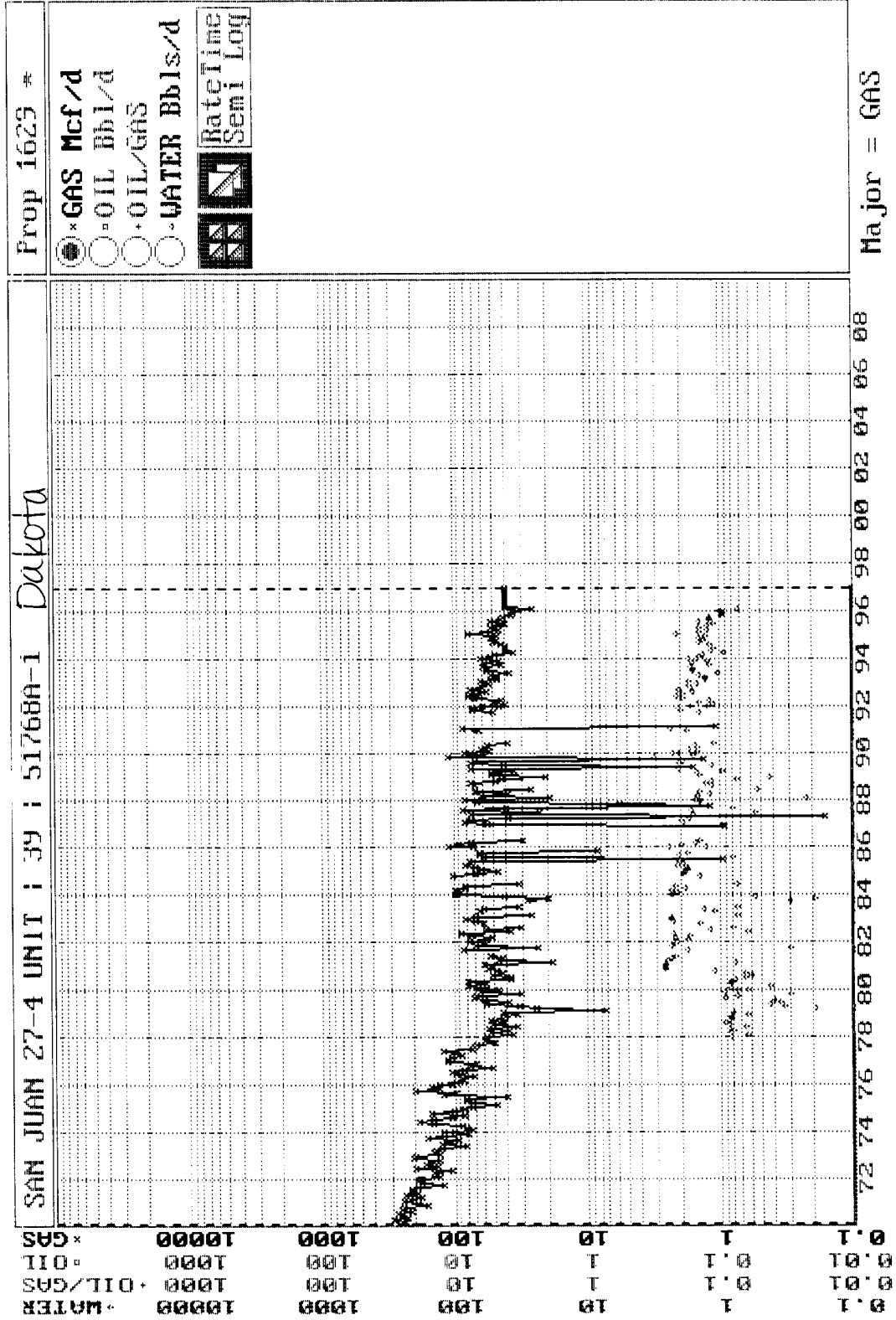
18 SURVEYOR CERTIFICATION

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.

10/13/96

Date of Survey
Signature of Surveyor



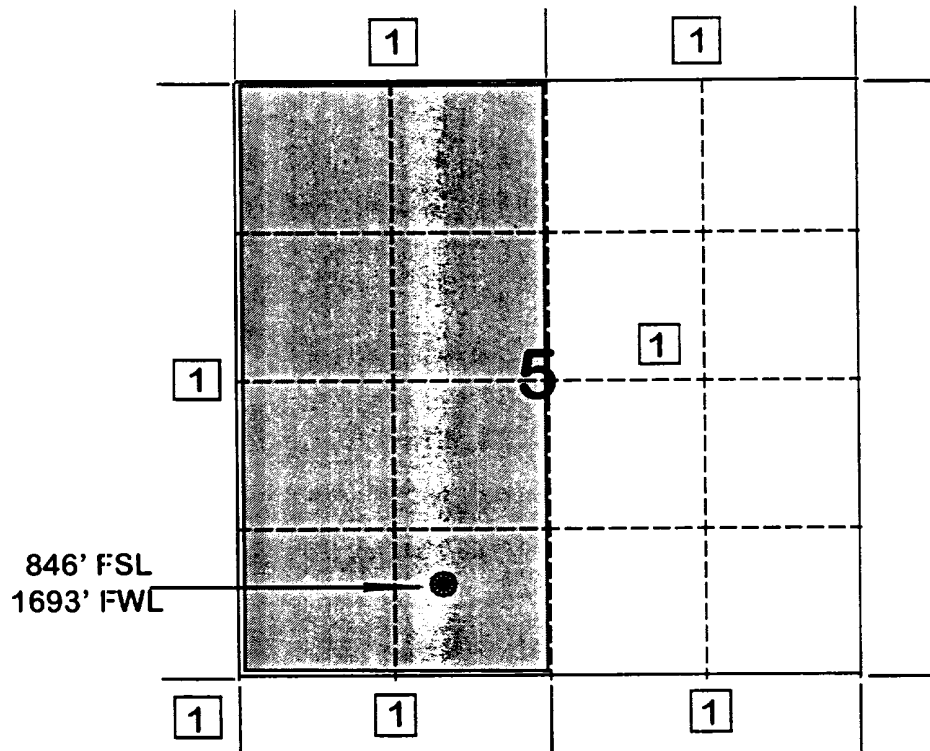


BURLINGTON RESOURCES OIL AND GAS COMPANY

**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
WJ/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
3EDROCK LIMITED PARTNERSHIP	PO BOX 36480			ALBUQUERQUE	NM	87176
3URLINGTON 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 C MORRELL LVC 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
ESLIE C TATUM	PO BOX 7392			N KANSAS CITY	MO	64116
MA ROYAL TIES 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
ROBBY 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 DECED	UW FOSTER MORRELL DECED 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

WELL PRODUCTION 8/8'S VOLUME

12/31/96 11:53:4

DATE: 961229 (YYMMDD FORMAT)

39 SCROLL FORWARD BY DATE: _

S	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	PF6=NRI	PF10=BROWSE MENU	PF11=INQ/UPDATE MENU
B MY JOB	ENTER=BACKWARDS		PF24=HELP
	LU #26		

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 G024 0008 CHROMATOGRAPH TEST MAIN SCREEN

11:44:44.2 12/31/9

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 12/31/9

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

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 12/31/9

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 12/31/9

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
Average						1047
1985 Average						1047
Pressure Drop / Year						2.5
Years						12
Additional Pressure Drop						30
Estimated 1997 Initial Pressure						1017

**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
%N ₂	0.16
%CO ₂	1.61
%H ₂ S	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	0.665
COND. OR MISC. (C/M)	M
%N2	0.05
%CO2	11.22
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	5674
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	120
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1017
BOTTOMHOLE PRESSURE (PSIA)	1179.6

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

