

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 87505-8429Form 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

San Juan 27-4 Unit Com (NP)

34

Address

P 33-28-6

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. 30-039-06796 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. 603 psi (see attachment) (Original) b. 1309 psi (see attachment)	a. b.	a. 980 psi (see attachment) b. 2511 psi (see attachment)
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	BTU 1147		BTU 1271
7. Producing or Shut-In?	shut in		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: 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 ☐ 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 Sean Woolverton TITLE Production Engineer DATE 2/17/97TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

Well Location and Acreage Dedication Plat

Section A.

Date **MAY 5, 1964**

Operator **EL PASO NATURAL GAS COMPANY** Lease **SAN JUAN 27-4 UNIT Com SF-079607**
 Well No. **34** Unit Letter **0** Section **34** Township **27-N** Range **4-W** NMPM
 Located **1180** Feet From **SOUTH** Line, **1700** Feet From **EAST** Line
 County **RIO ARRIBA** G. L. Elevation **7074** Dedicated Acreage **320** Acres
 Name of Producing Formation **DAKOTA** Pool **BASIN DAKOTA**

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes ☒ No ☐
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ☐ No ☐ If answer is "yes", Type of Consolidation.
3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

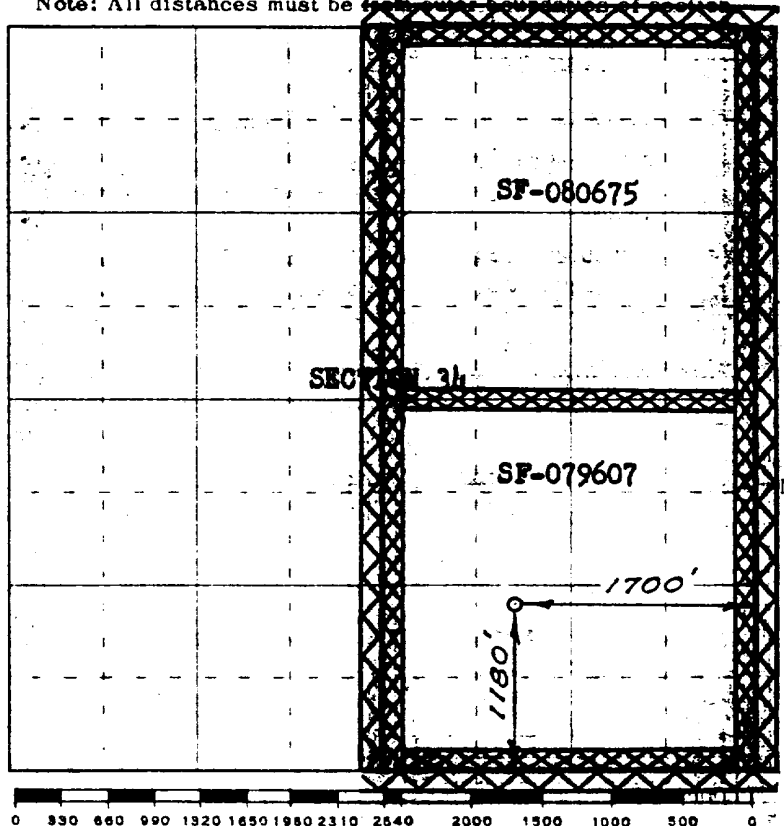
Land Description

Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

~~El Paso Natural Gas Company~~
 (Operator)
OR G'NAL SIGNED E. S. OBERLY
 (Representative)
Box 990, Farmington, New Mexico
 (Address)

Note: All distances must be from the boundaries of



Scale 4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

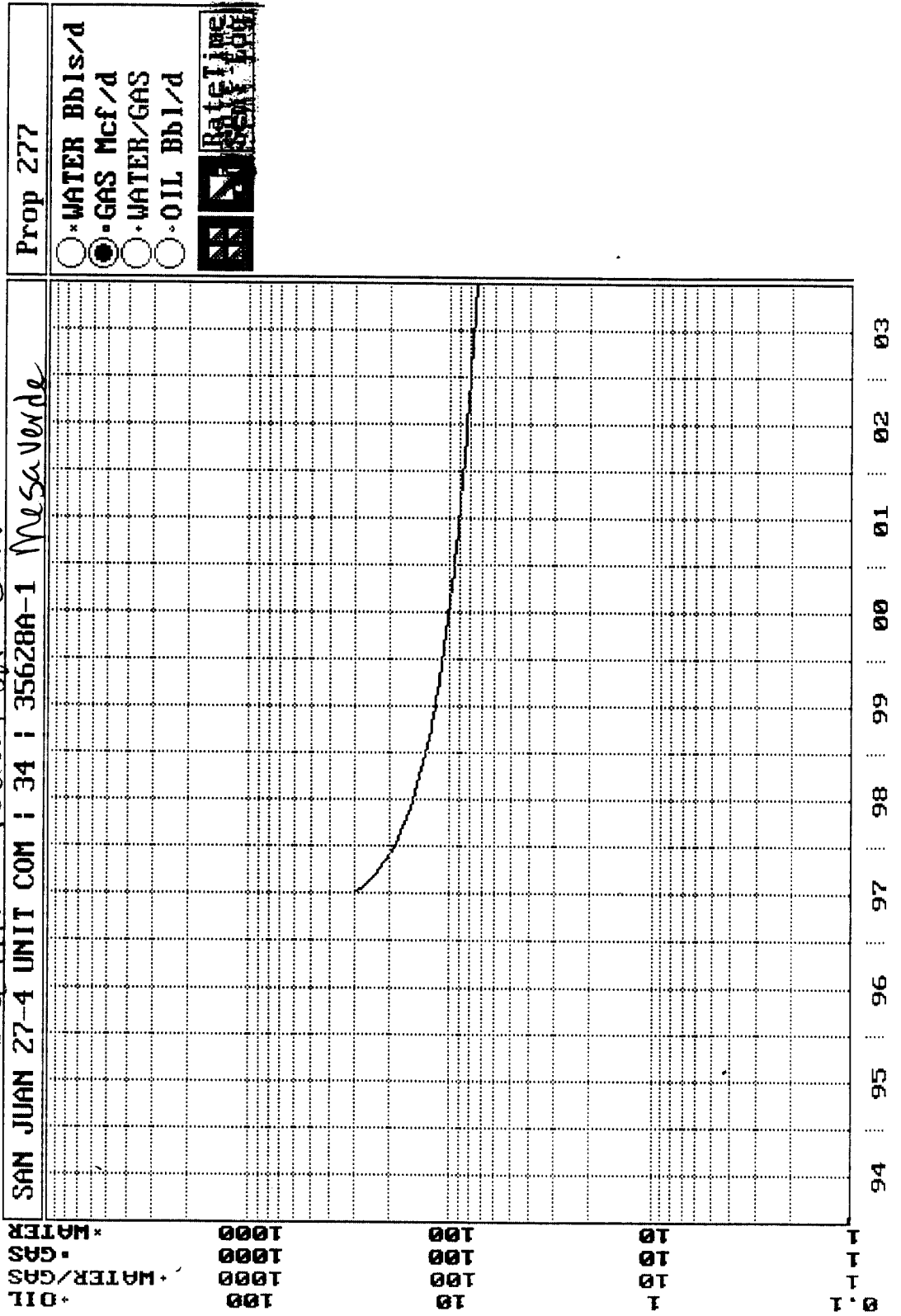
(Seal)

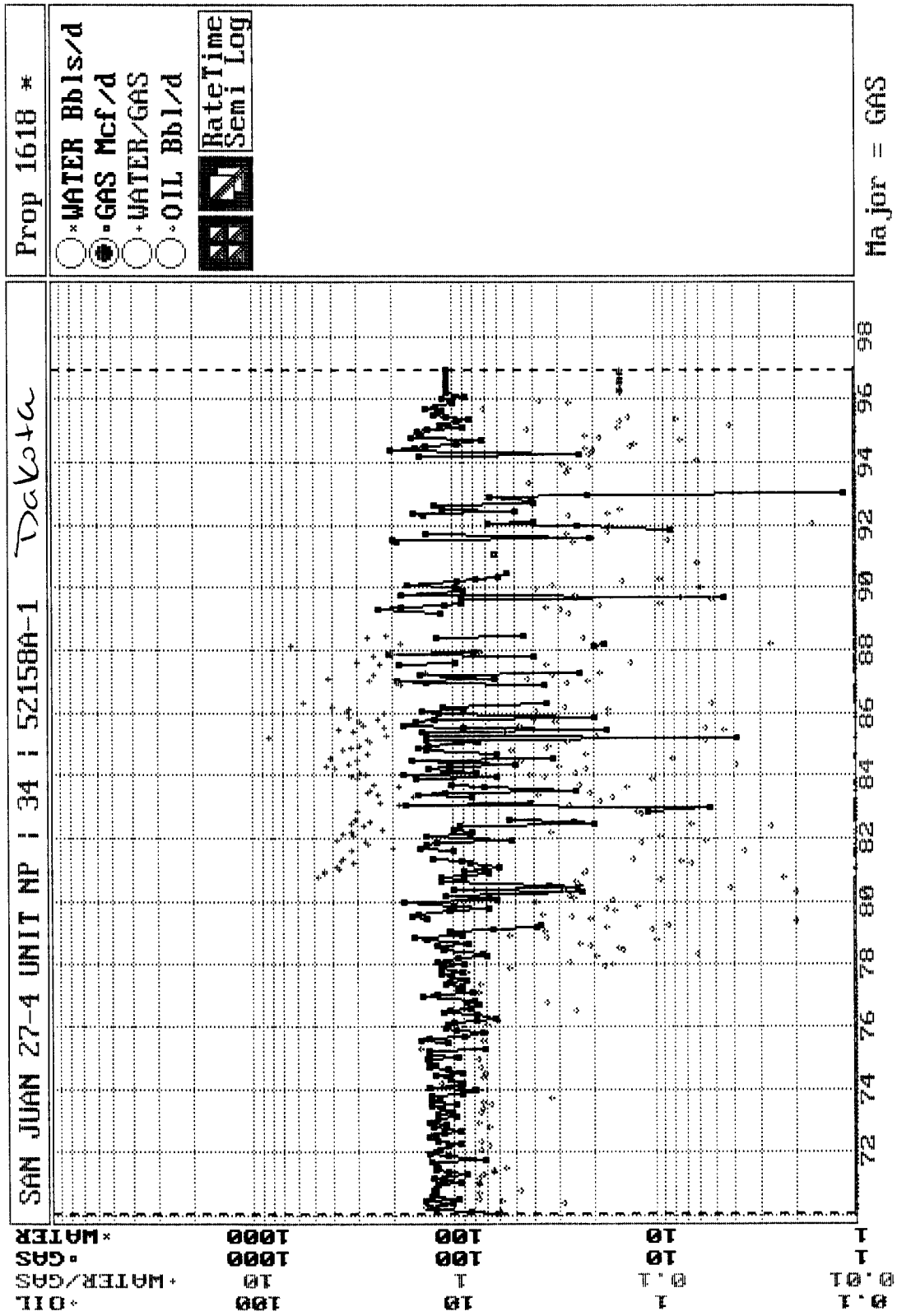
Date Surveyed **MARCH 30, 1964**

Farmington, New Mexico

Russell H. McNease
 Registered Professional Engineer and/or Land Surveyor

Expected Production Curve



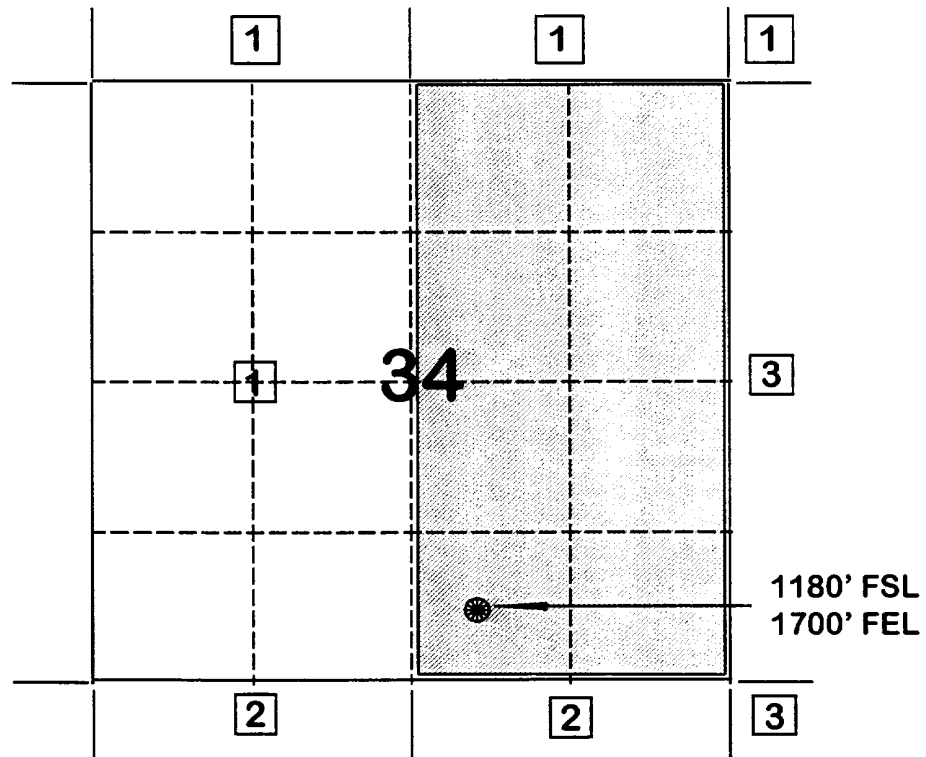


BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit Com NP #34
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.
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) Chateau Oil & Gas, Inc.
2515 McKinney Avenue, Suite 840
Dallas, TX 75201

SAN JUAN 27-4 UNIT

PROP #	INT TYPE	NAME
MESAVERDE	GW	CINCO GENERAL PARTNERSHIP
MESAVERDE	NPI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	NWI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	HARCO LTD PTSH
MESAVERDE	NWI	JAMES V HARRINGTON
MESAVERDE	NWI	MARY JONE CHAPPELL
MESAVERDE	NWI	ROMERO FAMILY LTD PARTNERSHIP
MESAVERDE	NWI	TEMPE LTD PARTNERSHIP
MESAVERDE	ORRI	AMALIA S SANCHEZ
MESAVERDE	ORRI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	ORRI	DEREK PETER VENEZIA
MESAVERDE	ORRI	EDNA E MORRELL LIVG TRUST
MESAVERDE	ORRI	ELEANOR G HAND
MESAVERDE	ORRI	GERALD F HARRINGTON
MESAVERDE	ORRI	HARCO LTD PTSH
MESAVERDE	ORRI	JAMES V HARRINGTON
MESAVERDE	ORRI	JOHN C MEADOWS
MESAVERDE	ORRI	JOSEPH R ABRAHAM
MESAVERDE	ORRI	LESLIE C TATUM
MESAVERDE	ORRI	LMA ROYALTIES LTD
MESAVERDE	ORRI	MANUEL A SANCHEZ TRUST
MESAVERDE	ORRI	MARY F ROBERTS
MESAVERDE	ORRI	MARY JO WELLS
MESAVERDE	ORRI	MARY JONE CHAPPELL
MESAVERDE	ORRI	MIKE C ABRAHAM TRUSTEE
MESAVERDE	ORRI	MISS M F ABRAHAM
MESAVERDE	ORRI	PATRICIA ANN ASHBURN
MESAVERDE	ORRI	PATRICIA P SCHIEFFER
MESAVERDE	ORRI	ROBBY F BAKER
MESAVERDE	ORRI	ROBERT P & ANNA D EARNEST TR
MESAVERDE	ORRI	ROBERT S TATUM
MESAVERDE	ORRI	SCOTT ANTHONY VENEZIA
MESAVERDE	ORRI	TEMPE LTD PARTNERSHIP
MESAVERDE	ORRI	U/W FOSTER MORRELL DECD
MESAVERDE	ORRI	UNION OIL CO OF CALIF
MESAVERDE	RI	JUAN R MONTANO
MESAVERDE	RI	MINERALS MANAGEMENT SERVICE
MESAVERDE	RI	WILLIAM B GREENE

SAN JUAN 27-4 UNIT

PROP #	INT TYPE	NAME
DAKOTA	GW	CINCO GENERAL PARTNERSHIP
DAKOTA	NPI	BURLINGTON RESOURCES O&G CO
DAKOTA	NWI	BEDROCK LIMITED PARTNERSHIP
DAKOTA	NWI	BURLINGTON RESOURCES O&G CO
DAKOTA	NWI	HARCO LTD PTSHP
DAKOTA	NWI	JAMES V HARRINGTON
DAKOTA	NWI	MARY JONE CHAPPELL
DAKOTA	NWI	TEMPE LTD PARTNERSHIP
DAKOTA	ORRI	AMALIA S SANCHEZ
DAKOTA	ORRI	BEDROCK LIMITED PARTNERSHIP
DAKOTA	ORRI	DEREK PETER VENEZIA
DAKOTA	ORRI	EDNA E MORRELL LIVG TRUST
DAKOTA	ORRI	ELEANOR G HAND
DAKOTA	ORRI	GERALD F HARRINGTON
DAKOTA	ORRI	HARCO LTD PTSHP
DAKOTA	ORRI	JAMES V HARRINGTON
DAKOTA	ORRI	JOHN C MEADOWS
DAKOTA	ORRI	JOSEPH R ABRAHAM
DAKOTA	ORRI	LESLIE C TATUM
DAKOTA	ORRI	LMA ROYALTIES LTD
DAKOTA	ORRI	MANUEL A SANCHEZ TRUST
DAKOTA	ORRI	MARY F ROBERTS
DAKOTA	ORRI	MARY JO WELLS
DAKOTA	ORRI	MARY JONE CHAPPELL
DAKOTA	ORRI	MIKE C ABRAHAM TRUSTEE
DAKOTA	ORRI	MISS M F ABRAHAM
DAKOTA	ORRI	PATRICIA ANN ASHBURN
DAKOTA	ORRI	PATRICIA P SCHIEFFER
DAKOTA	ORRI	ROBBY F BAKER
DAKOTA	ORRI	ROBERT P & ANNA D EARNEST TR
DAKOTA	ORRI	ROBERT S TATUM
DAKOTA	ORRI	SCOTT ANTHONY VENEZIA
DAKOTA	ORRI	TEMPE LTD PARTNERSHIP
DAKOTA	ORRI	U/W FOSTER MORRELL DECD
DAKOTA	ORRI	UNION OIL CO OF CALIF
DAKOTA	RI	JUAN R MONTANO
DAKOTA	RI	MINERALS MANAGEMENT SERVICE
DAKOTA	RI	WILLIAM B GREENE

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 FE & 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

Page No.: 1
 Print Time: Thu Jan 02 14:42:11 1997
 Property ID: 1618
 Property Name: SAN JUAN 27-4 UNIT NP | 34 | 52158A-1 86526
 Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

07/14/64	0	1945.0
08/27/65	37000	1539.0
06/03/66	84000	1200.0
05/29/67	140000	1047.0
09/20/68	201000	917.0
05/21/70	269549	864.0
04/30/71	308856	820.0
05/02/72	354298	795.0
02/12/76	505968	658.0
08/01/77	558043	686.0
10/08/79	636817	723.0
06/04/81	685941	712.0
09/19/83	744728	860.0
11/07/85	821564	705.0
04/22/90	930397	783.0

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 G019

0008 CHROMATOGRAPH TEST MAIN SCREEN

15:54:56.1 01/02/9

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **
 MP NUMBER 86526 SAN JUAN 27-4 UNIT 34
 EFFECTIVE DATE 19960801
 REGION CD 42 SAN JUAN
 MP TYPE CODE 10 GAS METER - WELLHEAD SALES

 SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----
 SAMPLE DATE 19960801 --- (AT 14.73 PSIG) --
 SAMPLE LINE PRESSURE (PSIG) . WET 1270.520 DRY 1293.000
 SAMPLE LINE TEMPERATURE (DEG F) -----
 TEST DATE ----- BTU/CF -----
 TEST PRESSURE (PSIG) 14.730 WET 1270.520 DRY 1293.000
 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 #21

OPR008M2 G019

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

15:55:23.8 01/02/9

GPM ** DATA AT 14.730 PSIG UNLESS NOTED **
 MOL % (AT 14.73)
 HYDROGEN ----- MP NUMBER 86526
 HELIUM ----- EFFECTIVE DATE 19960801
 NITROGEN 0.34
 OXYGEN -----
 HYDROGEN SULFIDE ----- -- GASOLINE CONTENT (GPM) --
 CARBON DIOXIDE 0.86 26/70 GASOLINE -----
 METHANE 75.75 100% PROPANE -----
 ETHANE 13.57 3.6300 EXCESS BUTANES -----
 PROPANE 5.55 1.5296 TOTAL -----
 ISO-BUTANE 0.90 0.2944
 N-BUTANE 1.70 0.5360
 ISO-PENTANE 0.64 0.2342
 N-PENTANE 0.50 0.1811
 HEXANE -----
 HEXANE PLUS 0.19 0.0829
 HEPTANE PLUS -----
 TOTALS 100.00 6.4882

 ----- SPECIFIC GRAVITY -----
 CALCULATED 0.7510
 MEASURED -----
 SULPHUR GRAINS / 100 CU FT -----

 03=MAIN SCREEN 24=HELP PA1=TERMINATE
 B MY JOB NUM LU #21

7.0625 @
 8120

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.751
COND. OR MISC. (C/M)	C
%N2	0.34
%CO2	0.86
%H2S	0
DIAMETER (IN)	2.0625
DEPTH (FT)	8120
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1945
BOTTOMHOLE PRESSURE (PSIA)	2510.7

SAN JUAN 27-4 UNIT #34 DAKOTA - ORIGINAL

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.751
COND. OR MISC. (C/M)	C
%N2	0.34
%CO2	0.86
%H2S	0
DIAMETER (IN)	2.0625
DEPTH (FT)	8120
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	783
BOTTOMHOLE PRESSURE (PSIA)	979.6

SAN JUAN 27-4 UNIT #34 DAKOTA - CURRENT

Page No.: 1
Print Time: Fri Jan 03 14:28:18 1997
Property ID: 3747
Property Name: SAN JUAN 27-4 UNIT COM | 137 | 44665A-1 27-4 #34 MW OFF
Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

09/25/80	0	1132.0
10/02/80	0	1133.0
01/16/81	33857	886.0
06/01/81	88290	701.0
11/03/82	187570	724.0
06/05/84	255820	692.0
11/21/86	351281	665.0
10/09/88	403189	532.0
10/04/89	417948	692.0
07/30/91	413724	783.0

2.375
@
6580

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.685
COND. OR MISC. (C/M)	C
%N2	2.7
%CO2	0.2
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6620
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1093
BOTTOMHOLE PRESSURE (PSIA)	1309.0

SAN JUAN 27-4 UNIT #132A MESAVERDE - ORIGINAL

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.685
COND. OR MISC. (C/M)	C
%N2	2.7
%CO2	0.2
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6620
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	512
BOTTOMHOLE PRESSURE (PSIA)	603.3

SAN JUAN 27-4 UNIT #132A MESAVERDE - CURRENT

SAN JUAN 27-4 UNIT

