

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

SAN JUAN 27-4 UNIT

73

H-17-27N-04W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

Spacing Unit Lease Types: ☐ County (check 1 or more)OGRID NO. 14538 Property Code 7453 API NO. 30-039-21032 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	Pictured Cliffs - 85920		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	3800-3881'		5484-6231'
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	(Current) a. 468 psi (Original) b. 1208 psi	a. b.	a. 499 psi b. 1296 psi
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1260		BTU 1171
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	yes		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: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 9/97 Rates: 42 MCFD	Date: Rates:	Date: 9/97 Rates: 130 MCFD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % To Be Supplied Upon Completion	Oil: % Gas: %	Oil: % Gas: % To 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 Jennifer L. Dobson TITLE Production Engineer DATE 12/23/97TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 27-4 UNIT (SF-080669)		Well No. 73
Unit Letter H	Section 17	Township 27 NORTH	Range 4 WEST	County RIO ARriba	
Actual Footage Location of Well: 1720 feet from the NORTH line and 1190 feet from the EAST line					
Ground Level Elev. 6918.0	Producing Formation MESA VERDE PICTURED CLIFFS		Pool BLANCO MESA VERDE TAPACITO PICTURED CLIFFS EXT.		Dedicated Average & Acres 320. 160.00

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty),
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

(X) Yes () No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

NOTE: THIS PLAT REISSUED TO SHOW DUAL COMPLETION. 10-1-74

CERTIFICATION

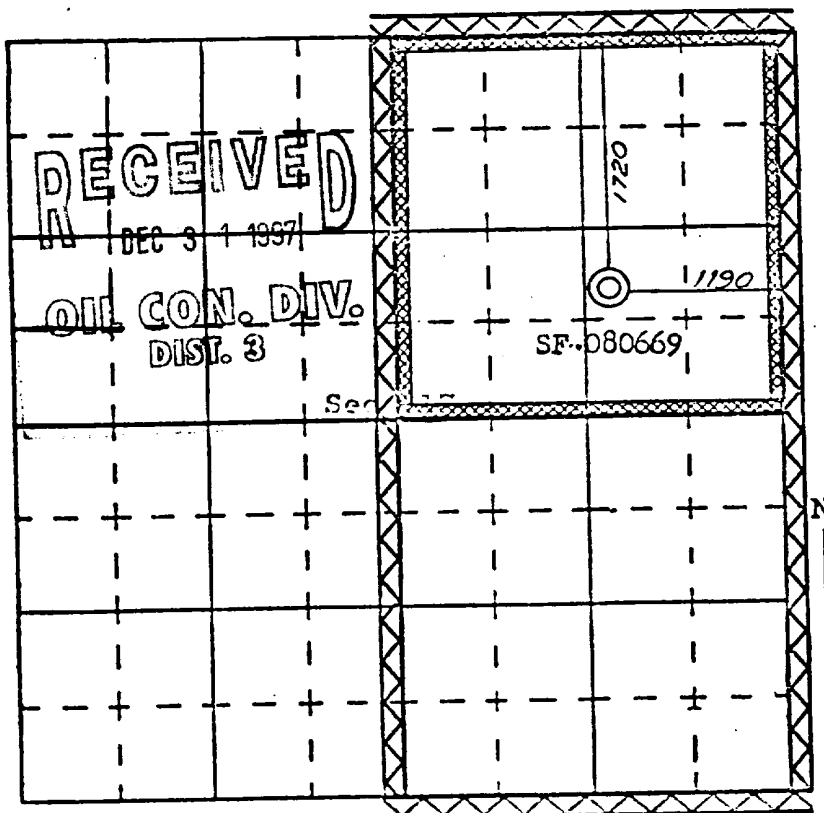
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

D. G. Duico
 Name
 Drilling Clerk
 Position
 El Paso Natural Gas Co.
 Company
 October 9, 1974
 Date

OCT 11 1974

U. S. GEOLOGICAL SURVEY
 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 knowledge and belief.

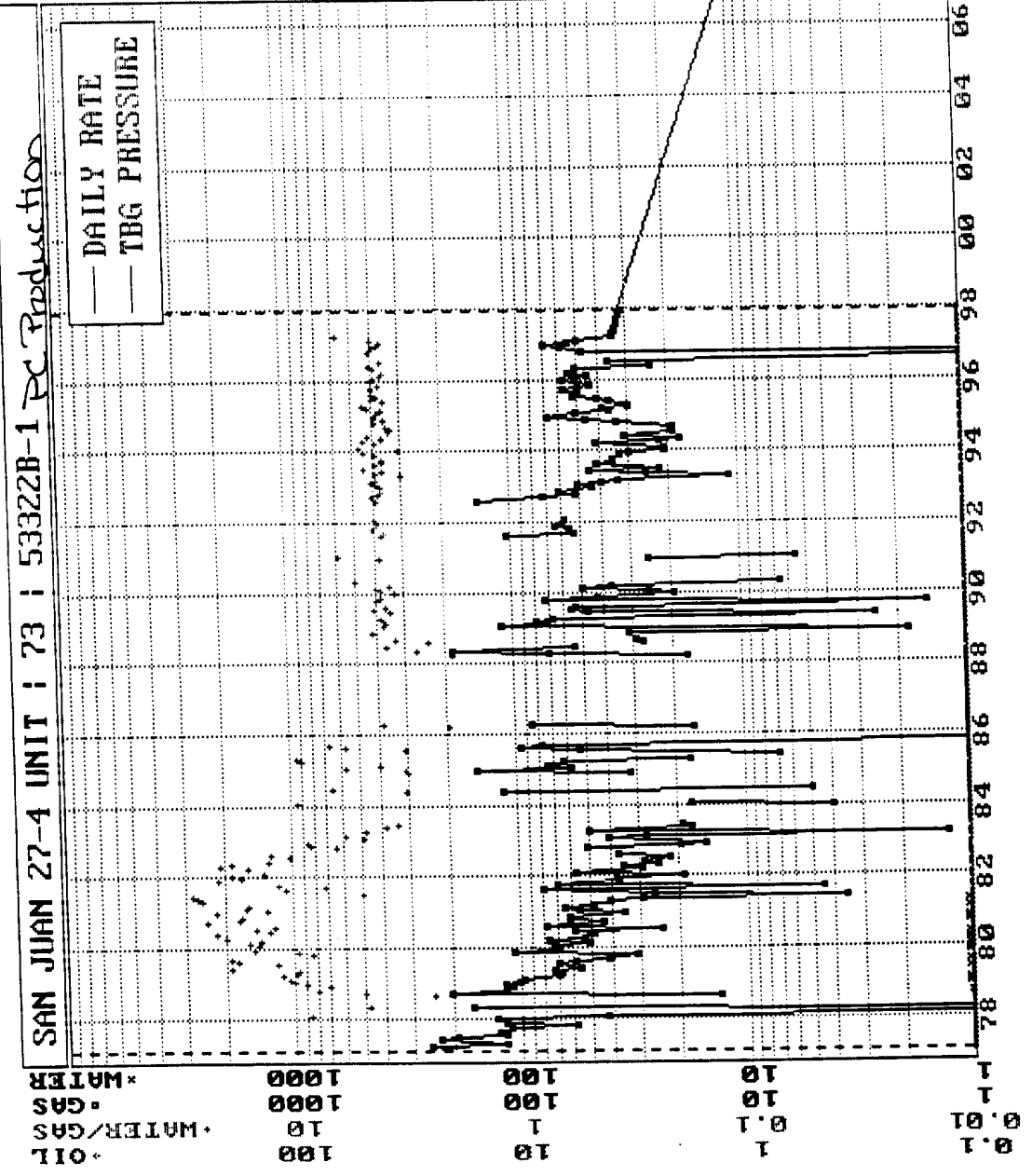
PROFESSIONAL ENGINEER
OCTOBER 1973
 Date
James P. Leese
 Registered Professional Engineer
 and Land Surveyor
JAMES P. LEESE
14634 NESR LESE
 Certificate No.



Prop 6745 *

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

RateTime
Semi Log



FARMINGTON
 SAN JUAN 27-4 UNIT
 TAPACITO P.C. (PRO GAS) FIELD

1997 MONTHLY PRODUCTION FOR 53322B
 73

PHS030M1

PICTURED CLIFFS ZONE

DAYS =====				OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31				01	1664	31	1222	15.025		6	
2	2	F	28				01	1518	28	1222	15.025		6	
3	2	F	31				01	1587	31	1222	15.025		6	
4	2	F	30				01	1418	30	1222	15.025		5	
5	2	F	30				01	1326	30	1226	15.025		5	
6	2	F	30				01	1167	30	1226	15.025		4	
7	2	F	31				01	1354	31	1226	15.025		5	
8	2	F	31				01	1280	31	1230	15.025		5	
9	2	F	30				01	1260	30	1230	15.025		5	
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY
 PF10 - HELP INFORMATION

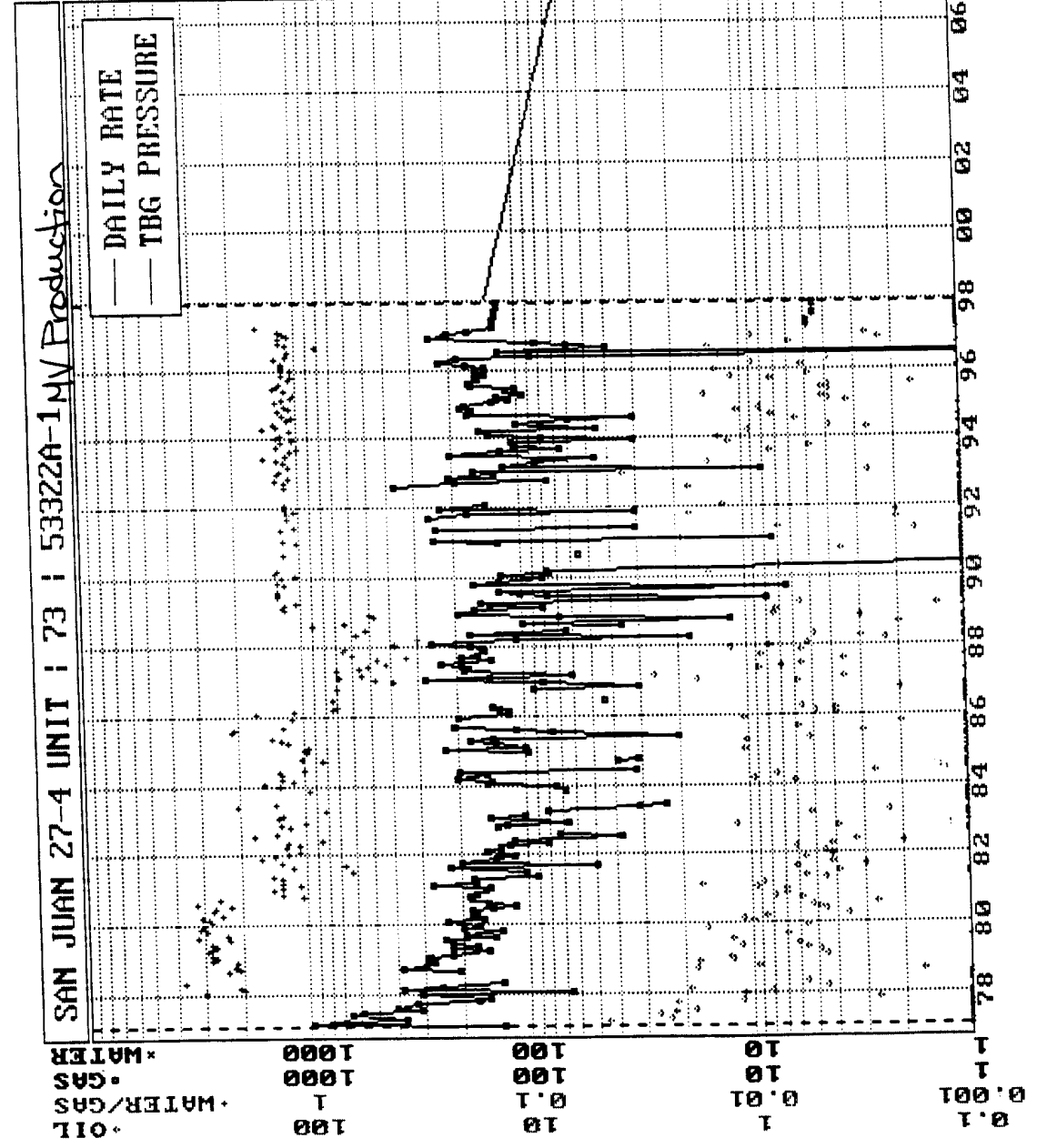
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PF3 - TRANSFER TO UPDATE
 PF9 - DISPLAY MONTHLY INJECTION
 PRS 11/05/97

Prop 3809 *

○ WATER Bbls/d
 ● GAS Mcf/d
 ○ WATER/GAS
 ○ OIL Bbl/d

 Rate Time
 Semi Log



FARMINGTON

1997 MONTHLY PRODUCTION FOR 53322A

PHS030M1

SAN JUAN 27-4 UNIT

73

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

DAYS =====				OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31	02	8		01	6219	31	1170	15.025		7	
2	2	F	28	02		42.5	01	5020	28	1169	15.025		6	
3	2	F	31	02	7		01	5362	31	1169	15.025		6	
4	2	F	30	02	12		01	4377	30	1169	15.025		5	
5	2	F	30	02	27		01	4083	30	1169	15.025		5	
6	2	F	30	02	15		01	3744	30	1169	15.025		4	
7	2	F	31	02			01	4038	31	1171	15.025		5	
8	2	F	31	02	15		01	4127	31	1171	15.025		5	
9	2	F	30	02	10		01	3892	30	1171	15.025		4	
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

00/00/00 00:00:00:0

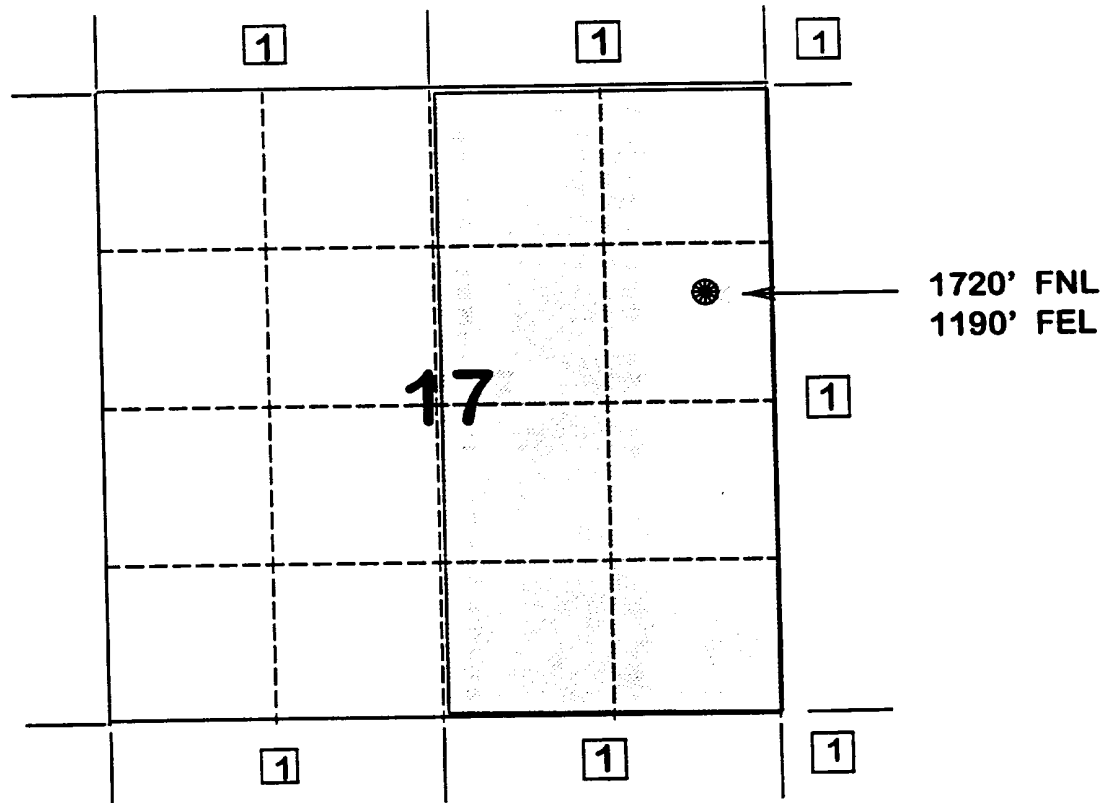
PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 11/05/97

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit #73
OFFSET OPERATOR \ OWNER PLAT**

Pictured Cliffs (NE/4) / Mesaverde (E/2) Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

San Juan 27-4 #73
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Pictured Cliffs		Mesaverde	
<u>PC - Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.717	GAS GRAVITY	0.686
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.75	%N2	0.24
%CO2	0.1	%CO2	0.93
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	3841	DEPTH (FT)	5857.5
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100	BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	422	SURFACE PRESSURE (PSIA)	432
BOTTOMHOLE PRESSURE (PSIA)	468.4	BOTTOMHOLE PRESSURE (PSIA)	498.8
<u>PC - Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.717	GAS GRAVITY	0.686
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.75	%N2	0.24
%CO2	0.1	%CO2	0.93
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	3841	DEPTH (FT)	5857.5
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100	BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1071	SURFACE PRESSURE (PSIA)	1104
BOTTOMHOLE PRESSURE (PSIA)	1208.3	BOTTOMHOLE PRESSURE (PSIA)	1296.2

Page No.: 1
Print Time: Wed Nov 12 13:54:20 1997
Property ID: 6745
Property Name: SAN JUAN 27-4 UNIT | 73 | 53322B-1 PC pressures.
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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

09/24/76	0	1071.0	original
03/10/77	14317	643.0	
05/10/78	57858	532.0	
10/08/79	95550	480.0	
06/23/80	111905	456.0	
11/03/82	146253	507.0	
06/05/84	155850	570.0	
04/21/86	178180	527.0	
09/08/89	205970	507.0	
09/11/91	219547	575.0	
08/02/93	246430	422.0	current.

Page No.: 1
Print Time: Wed Nov 12 13:53:15 1997
Property ID: 3809
Property Name: SAN JUAN 27-4 UNIT | 73 | 53322A-1 MV Pressures.
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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

09/24/76	0	1104.0	Original
03/10/77	55491	695.0	
05/10/78	181584	498.0	
05/03/79	258204	312.0	
06/23/80	331226	514.0	
11/03/82	446916	510.0	
03/05/85	511584	517.0	
11/04/86	560776	683.0	
09/08/89	689873	597.0	
01/24/91	723089	393.0	
06/14/91	731691	405.0	
08/02/93	812171	432.0	Currently

DATE: November 13, 1997
 NAME: SAN JUAN 27-4 UNIT 73
 FORM: PICTURED CLIFFS
 LOCATION
 UNIT: H
 SEC: 17
 TWN: 27N
 RNG: 4W

[7] San Juan 27-4 Unit 123 11/77 11/89 (97) 0/0	12/80 San Juan 27-4 Unit 124A 14/117 (97) 0/0 12/76 San Juan 27-4 Unit 125 21/138 (97) 0/0 [8] 10/76 San Juan 27-4 Unit 124 16/137 (97) 0/1 12/80 San Juan 27-4 Unit 125A 62/316 (97) 0/0	[9] 2/81 San Juan 27-4 Unit 134 86/383 (97) 0/1
[18] San Juan 27-4 Unit 121 1/79 18/128 (97) 0/0	11/77 San Juan 27-4 Unit 16A 34/269 (97) 0/0 9/76 San Juan 27-4 Unit 73 39/297 (97) 0/0 [17] P&A 1/75 San Juan 27-4 Unit 74 20/66 (91) 0/0	12/80 San Juan 27-4 Unit 99A 39/314 (97) 0/0 [16] P&A 1/75 3/81 San Juan 27-4 Unit 138 48/214 (97) 0/0
INA 10/73 San Juan 27-4 Unit 64 1/169 (96) 0/0 INA 10/76 San Juan 27-4 Unit 105 24/179 (96) 0/0 [19] INA 11/59 San Juan 27-4 Unit 23 7/188 (95) 0/0	1/75 San Juan 27-4 Unit 126 54/496 (97) 0/0 9/80 San Juan 27-4 Unit 13A 290/1221 (97) 0/1 12/57 INA San Juan 27-4 Unit 13 2/588 (94) 0/0 [20] San Juan 27-4 Unit 75 49/427 0/0 12/74 San Juan 27-4 Unit 76 19/224 (97) 0/0 [21] 12/74 San Juan 27-4 Unit 77 40/255 (97) 0/0	12/74 San Juan 27-4 Unit 78 47/304 (97) 0/0

T 27 N

LEGEND
 COMPLETION DATE
 WELL NAME
 MCF/D-CUM(MMF)
 BOP/D-CUM(MBO)

DATE: October 16, 1997

NAME: SAN JUAN 27-4 UNIT 73

FORM: MESAVERDE

LOCATION

UNIT: H

SEC: 17

TWN: 27N

RNG: 4W

LEGEND

COMPLETION DATE

WELL NAME

MCF/D-CUM(MMF)

BOP/D-CUM(MBO)

11/77 San Juan 27-4 Unit 123 168/828 (97) 1/3 [7] 7/61 San Juan 27-4 Unit 31 157/1253 (97) 0/4	12/80 San Juan 27-4 Unit 124A 226/919 (97) 1/5 12/76 San Juan 27-4 Unit 125 184/1291 (97) 0/6 [8] 10/76 San Juan 27-4 Unit 124 129/896 (97) 0/2 12/80 San Juan 27-4 Unit 125A 181/845 (97) 0/4	[9] 5/82 San Juan 27-4 Unit 139 275/1191 (97) 1/5 6/80 San Juan 27-4 Unit 134 203/986 (97) 1/6
12/74 San Juan 27-4 Unit 121 190/1662 (97) 0/6 [18] 3/86 San Juan 27-4 Unit 121A 223/603 (97) 1/1 11/57 San Juan 27-4 Unit 14X 33/880 (97) 0/1	11/77 San Juan 27-4 Unit 16A 205/1065 (97) 1/4 9/76 San Juan 27-4 Unit 73 198/1004 (97) 0/3 [17] 11/73 San Juan 27-4 Unit 16 96/1619 (97) 0/5	12/80 San Juan 27-4 Unit 99A 127/639 (97) 0/2 6/97 San Juan 27-4 Unit 71 385/23 (97) 0/0 [16] 3/79 San Juan 27-4 Unit 99 222/675 (97) 1/3 3/81 San Juan 27-4 Unit 138 191/1187 (97) 0/3 5/82 San Juan 27-4 Unit 142 268/1441 (97) 1/5
10/76 San Juan 27-4 Unit 105 121/451 (97) [19] 0/1 11/59 San Juan 27-4 Unit 23 82/412 (97) 0/0	12/57 San Juan 27-4 Unit 13 PCUM/2825 (95) [20] PCUM/8 1/75 San Juan 27-4 Unit 126 187/708 (97) 0/2 9/80 San Juan 27-4 Unit 13 A PCUM/144 (95) 0/0	[21] 9/82 San Juan 27-4 Unit 145 354/1447 (97) 1/6

R-4-W

SAN JUAN 27-4 UNIT

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

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