

DATE IN 1/20/99	SUSPENSE 2/9/99	ENGINEER DC	LOGGED BY RV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



2187

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

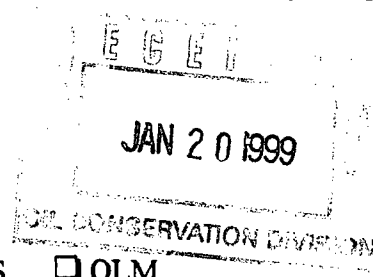
Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

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

17

M-29-27N-04W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County
Spacing Unit Lease Types: (check 1 or more)OGRID NO. _14538_ Property Code _7452_ API NO. _30-039-06865_ 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)	3650-3716'		5325-5948'
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure	(Current) a. 564 psi	a.	a. 684 psi
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 1167 psi	b.	b. 1359 psi
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (°API) or Gas BTU Content	BTU 1209		BTU 1190
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	Date: Rates:	Date: Rates:	Date: Rates:
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 of recent test (within 60 days)	Date: 10/98 Rates: 18 MCFD	Date: Rates:	Date: 10/98 Rates: 28 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 1/18/99TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

Well Location and Acreage Dedication Plat

Section A.

Date **MAY 21, 1958**

Operator **EL PASO NATURAL GAS COMPANY** Lease **SAN JUAN 27-4 UNIT** SF **080670**
 Well No. **17(PM)** Unit Letter **M** Section **29** Township **27-N** Range **4-N** NMPM
 Located **810** Feet From **SOUTH** Line, **1150** Feet From **WEST** Line
 County **RIO ARriba** G. L. Elevation **6810** Dedicated Acreage **320 & 160** Acres
 Name of Producing Formation **MESA VERDE AND PICTURED CLIFF** Pool **BLANCO MV, TAPACITO P.C. EST.**

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

RECEIVED
MAY 28 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

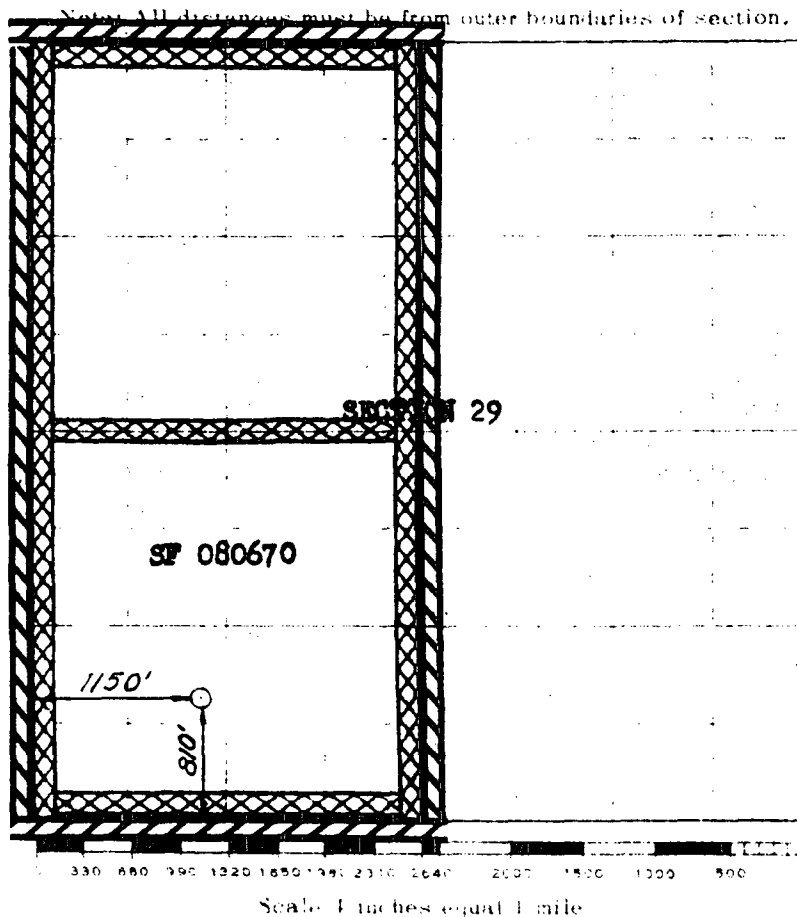
Section B.

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)
Original Signed D. C. Johnson
 (Representative)

Box 997 (Address)

Farmington, New Mexico



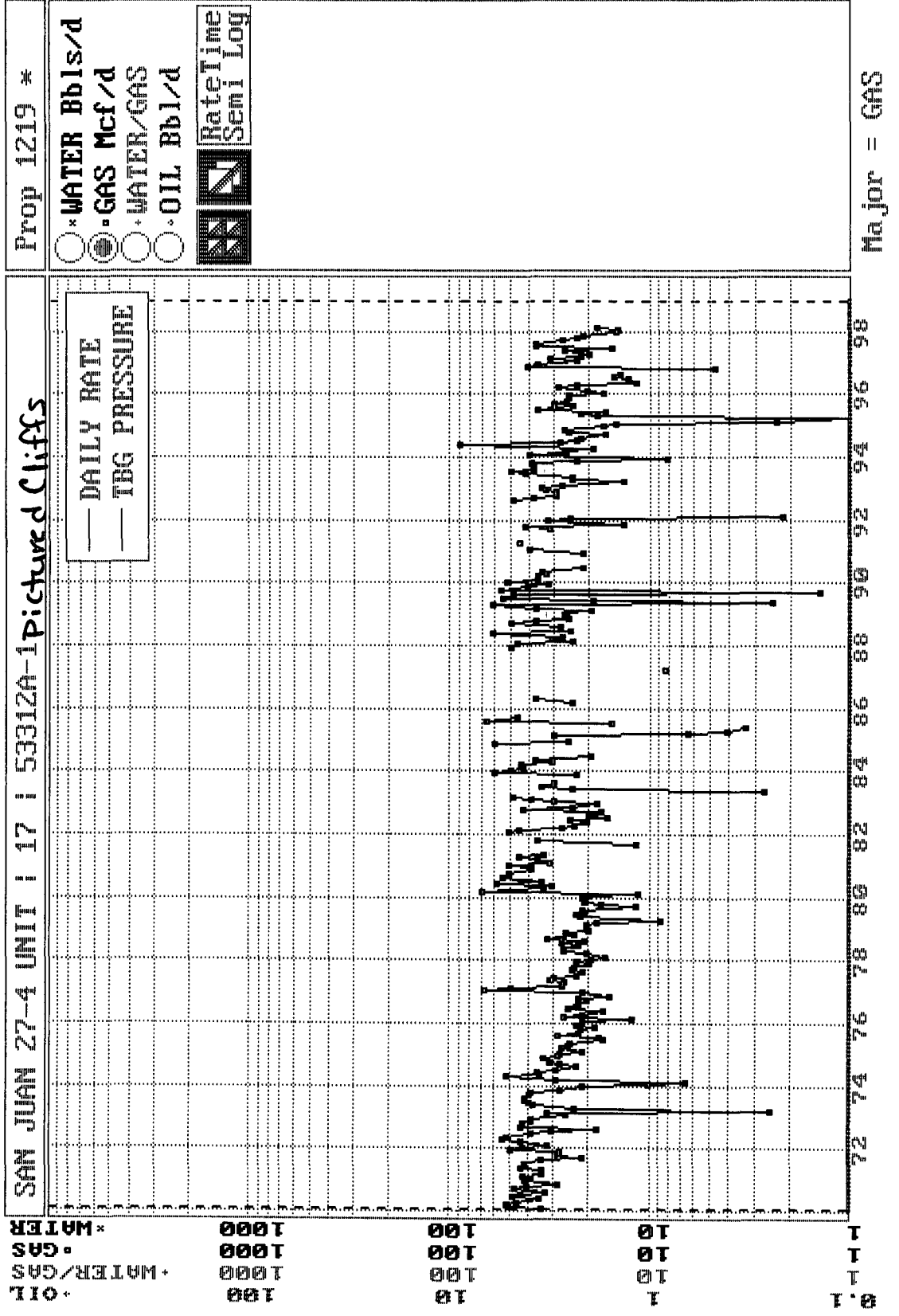
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

Farmington, New Mexico

Date Surveyed **MAY 20, 1958**

David O. Kilven
 Registered Professional Engineer and/or Land Surveyor



FARMINGTON

1998 MONTHLY PRODUCTION FOR 53312A

PHS030M1.

SAN JUAN 27-4 UNIT

17

TAPACITO (PICTURED CLIFFS) FIELD

PICTURED CLIFFS ZONE

		DAYS			OIL			GAS			WATER		
		=====			=====			=====			=====		
MO	T S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	PROD	C	
1	2	F				01	442	31	1192	15.025			
2	2	F				01	558	28	1192	15.025			
3	2	F				01	820	31	1192	15.025			
4	2	F				01	623	27	1192	15.025			
5	2	F				01	654	28	1192	15.025			
6	2	F				01	727	30	1192	15.025			
7	2	F				01	692	31	1209	15.025			
8	2	F				01	584	31	1209	15.025			
9	2	F				01	523	30	1209	15.025			
10	2	F				01	570	31	1209	15.025			

11

12

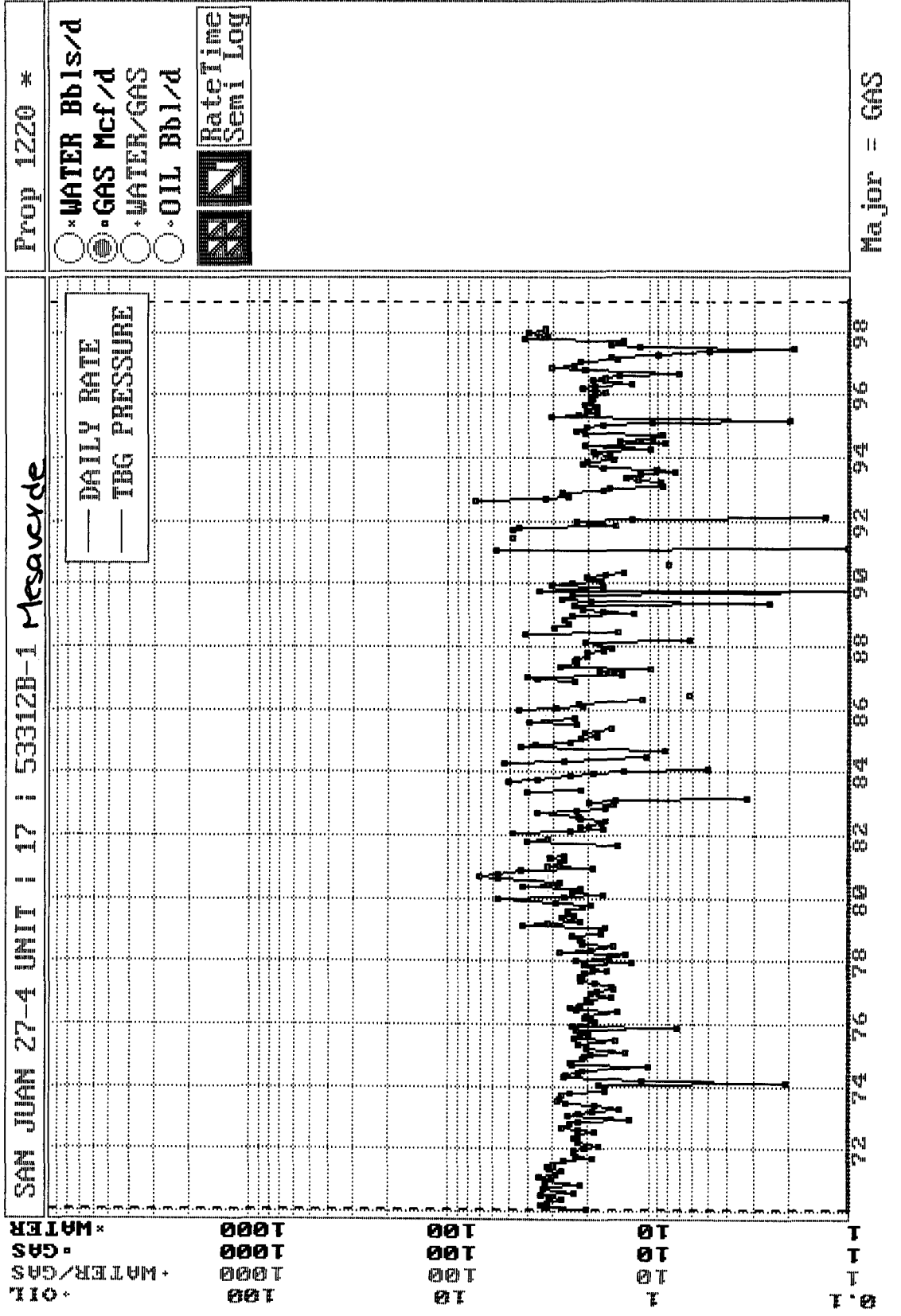
PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0 PRS 12/05/98



DAYS				OIL			GAS							
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F			01			1003	31	1184	15.025			
2	2	F			01			1008	28	1184	15.025			
3	2	F			01			957	31	1184	15.025			
4	2	F			01			727	25	1184	15.025			
5	2	F			01			622	28	1184	15.025			
6	2	F			01			454	30	1184	15.025			
7	2	F			01			556	31	1190	15.025			
8	2	F			01			506	31	1190	15.025			
9	2	F			01			565	30	1190	15.025			
10	2	F			01			1130	31	1190	15.025			

11
12
PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTION
00/00/00 00:00:00:0 PRS 12/05/98

San Juan 27-4 #17
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	0.706	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.98	%N2	0.73
%CO2	0.12	%CO2	0.32
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	3683	DEPTH (FT)	5637
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)	510	SURFACE PRESSURE (PSIA)	592
BOTTOMHOLE PRESSURE (PSIA)	563.7	BOTTOMHOLE PRESSURE (PSIA)	654.0
<u>PC - Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.706	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.98	%N2	0.73
%CO2	0.12	%CO2	0.32
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	3683	DEPTH (FT)	5637
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)	1043	SURFACE PRESSURE (PSIA)	1159
BOTTOMHOLE PRESSURE (PSIA)	1166.8	BOTTOMHOLE PRESSURE (PSIA)	1358.5

Page No.: 1

Print Time: Mon Jan 18 13:23:04 1999

Property ID: 1219

Property Name: SAN JUAN 27-4 UNIT | 17 | 53312A-1 *Picture d Cliffs*

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM_GAS-- M SIWHP
#####Mcf#####Psi

07/10/58	0	1043.0	-original
08/07/58	0	1030.0	
09/22/59	28000	828.0	
05/29/60	41000	734.0	
05/28/61	51000	665.0	
08/06/62	60000	640.0	
04/19/63	63000	742.0	
08/27/64	85000	707.0	
10/25/65	99000	700.0	
09/02/66	111000	678.0	
05/16/67	121000	617.0	
05/02/68	133000	627.0	
08/28/70	185735	547.0	
04/08/71	195169	535.0	
08/09/72	213619	506.0	
03/01/74	231526	560.0	
11/05/82	315870	507.0	
06/20/84	332182	455.0	
04/21/86	341934	554.0	
09/08/89	363724	508.0	
04/29/91	377459	518.0	
05/03/93	391167	510.0	-current

Page No.: 2

Print Time: Mon Jan 18 13:23:05 1999

Property ID: 1220

Property Name: SAN JUAN 27-4 UNIT | 17 | 53312B-1 - *Mesaverde*

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

07/10/58	0	1159.0	<i>-original</i>
07/31/58	0	1146.0	
09/22/59	41000	659.0	
05/29/60	58000	639.0	
05/28/61	78000	665.0	
08/06/62	93000	602.0	
04/19/63	104000	626.0	
07/02/64	116000	673.0	
05/10/65	125000	564.0	
04/19/66	141000	561.0	
05/16/67	154000	570.0	
09/23/68	168000	584.0	
08/28/70	188376	563.0	
04/08/71	195873	547.0	
08/09/72	207535	582.0	
04/21/86	317171	530.0	
09/08/89	337886	538.0	
06/03/91	346766	604.0	
06/17/91	346766	592.0	<i>-current</i>

BURLINGTON RESOURCES OIL AND GAS COMPANY

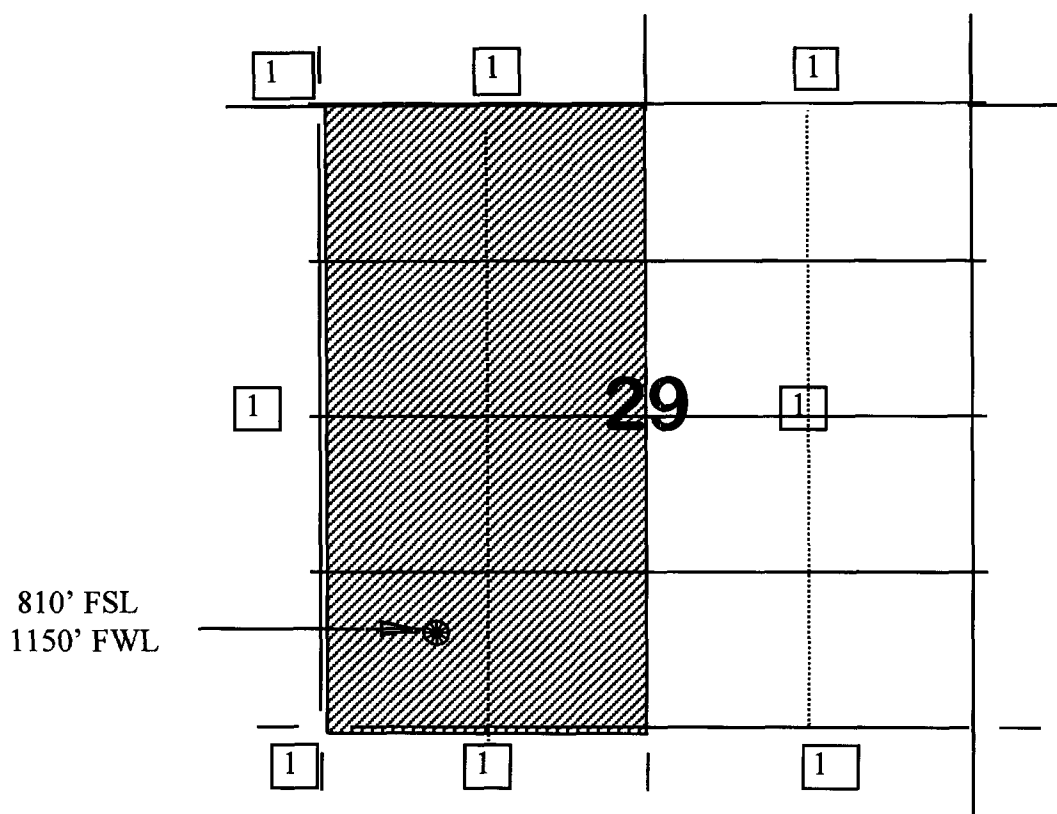
San Juan 27-4 Unit #17

OFFSET OPERATOR/OWNER PLAT

Pictured Cliffs (SW/4) & Mesaverde (W/2) Formations

Commingle well

Township 27 North, Range 4 West



1) Burlington Resources

DATE: January 18, 1999

NAME: SAN JUAN 27-4 UNIT 17

FORM: PICTURED CLIFFS

LOCATION

UNIT: M

SEC: 29

TWN: 27N

RNG: 4W

LEGEND

COMPLETION DATE

WELL NAME

MCF/D-CUM(MMF)

BOP/D-CUM(MBO)

INA 10/73 San Juan 27-4 Unit 64 0/169 (98) 0/0 INA 11/59 San Juan 27-4 Unit 23 0/188 (95) 0/0	INA 10/76 San Juan 27-4 Unit 105 0/179 (95) 0/0 [19] 1/75 San Juan 27-4 Unit 126 48/522 (98) 0/0 11/76 San Juan 27-4 Unit 113 128/949 (98) 0/0 5/59 San Juan 27-4 Unit 21 40/435 (98) 0/1 9/73 San Juan 27-4 Unit 65 35/321 (98) 0/0 9/57 San Juan 27-4 Unit 12 49/748 (98) 0/0	INA 12/57 San Juan 27-4 Unit 13 0/588 (94) 0/0 [20] 9/80 San Juan 27-4 Unit 13A 220/1314 (98) 0/1 11/76 San Juan 27-4 Unit 114 1/186 (98) 0/0 7/58 San Juan 27-4 Unit 17 21/438 (98) 0/0 10/76 San Juan 27-4 Unit 90 46/337 (98) 0/0 [31] 9/57 San Juan 27-4 Unit 11 21/721 (98) 0/0 8/56 San Juan 27-4 Unit 6 41/1404 (98) 0/0	San Juan 27-4 Unit 75 57/453 (98) 0/0 12/74 San Juan 27-4 Unit 76 13/231 (98) 0/0 [21] 12/74 San Juan 27-4 Unit 77 38/273 (98) 0/0 1/75 San Juan 27-4 Unit 78 38/3222 (98) 0/0 11/76 San Juan 27-4 Unit 115 37/245 (98) 0/0 [32] 8/56 San Juan 27-4 Unit 8 48/457 (98) 0/0 10/76 San Juan 27-4 Unit 116 49/235 (98) 0/0 [33] INA 5/75 San Juan 27-4 Unit 91 0/239 (97) 0/0 8/56 San Juan 27-4 Unit 9 11/428 (98) 0/0	6/75 San Juan 27-4 Unit 87 122/895 (98) 0/0 [28] 5/75 San Juan 27-4 Unit 88 55/365 (98) 0/0 10/76 San Juan 27-4 Unit 116 49/235 (98) 0/0 [33] INA 5/75 San Juan 27-4 Unit 91 0/239 (97) 0/0 8/56 San Juan 27-4 Unit 9 11/428 (98) 0/0
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T
27
N

R-4-W

DATE: January 18, 1999

NAME: SAN JUAN 27-4 UNIT 17

FORM: MESAVERDE

LOCATION

UNIT: M

SEC: 29

TWN: 27N

RNG: 4W

LEGEND

COMPLETION DATE *

WELL NAME

MCF/D-CUM(MMF)

BOP/D-CUM(MBO)

10/76 * San Juan 27-4 Unit 105 46/472 (98) [19] 0/1 11/59 * San Juan 27-4 Unit 23 62/440 (98) 0/0	1/75 * San Juan 27-4 Unit 126 96/750 (98) 0/2 1/59 INA 12/57 * San Juan 27-4 Unit 13 0/2825 (95) [20] 0/8 INA 9/80 * San Juan 27-4 Unit 13A 0/144 (97) 0/0	5/82 * San Juan 27-4 Unit 142 202/1527 (98) 0.8/6 9/82 * San Juan 27-4 Unit 145 263/1559 (98) 1/6 [21]
5/59 * San Juan 27-4 Unit 21 12/242 (98) 0/2 [30] 10/60 * San Juan 27-4 Unit 25 52/622 (98) 0/0	1/59 * San Juan 27-4 Unit 20 88/2897 (98) [29] 0.7/90 7/58 * San Juan 27-4 Unit 17 24/393 (98) 0/1 9/80 * San Juan 27-4 Unit 20A 7/271 (98) 0/2 5/82 * San Juan 27-4 Unit 144 55/363 (98) 0/1	11/80 * San Juan 27-4 Unit 101 148/1112 (98) [28] 0/6 5/82 * San Juan 27-4 Unit 144 55/363 (98) 0/1
11/53 * San Juan 27-4 Unit 4 4/72 (98) 0/0 [31] 9/60 * San Juan 27-4 Unit 26 56/510 (98) 0/0 1/80 * San Juan 27-4 Unit 4A 93/645 (98) 0/4	1/80 * San Juan 27-4 Unit 136 68/589 (98) 0/2 1/80 * San Juan 27-4 Unit 108 47/620 (98) 0/3 2/81 * San Juan 27-4 Unit 108 47/620 (98) 0/3	6/80 * San Juan 27-4 Unit 102 73/452 (98) 0/2 [33] 7/60 * San Juan 27-4 Unit 27 88/506 (98) 0/0

R-4-W

T 27 N

**San Juan 27-4 Unit
Interest Owners**

NAME

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