

DISTRICT I
1625 N. F. 3rd Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429
APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
Revised March 17, 1999
APPROVAL PROCESS:
☒ Administrative ☐ Hearing
EXISTING WELLBORE
☒ YES ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY
Operator
PO Box 4289, Farmington, NM 87499
Address

San Juan 27-4 Unit
Lease
102
Well No.
B, Sec 33, T27N, R4W
Unit Ltr. - Sec - Twp - Rge
Rio Arriba
County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7452 API NO. 30-039-2083300 Federal ☒ State (and/or) Fee

The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone Blanco Mesa Verde - 72319	Intermediate Zone	Lower Zone Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5732' - 6566'		8230' - 8415'
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 Current Measured Current Estimated Or Measured Original	(Current) a. 548 psia @ 6149' (Original) b. 874 psia @ 6149'	RECEIVED JUL 13 1999 OIL CON. DIV. DIST. 3	a. 412 psia @ 8323' b. 1258 psia @ 8323'
6. Oil Gravity (EAPI) or Gas BTU Content	1212 BTU		1302 BTU
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date 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 date and oil/gas/water rates of recent test (within 60 days)	Date: 05/31/99 Rates: 34 MCFD 0 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 36 MCFD, 0.2 BOD, 0 BWD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply for commingling	Oil: % Gas: %	Oil: Gas: Will supply for commingling

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. NMOC 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 Timothy J. Friesenhahn TITLE Operations Engineer DATE 07-06-99

TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-128
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 27-4 UNIT (SF-080675)		Well No. 102
Unit Letter B	Section 33	Township 27-N	Range 4-W	County RIO ARriba	
Actual Footage Location of Well: 890 feet from the NORTH line and 1745 feet from the EAST line					
Ground Level Elev. 7187	Producing Formation DAKOTA & MESA VERDE	Pool BASIN DAKOTA - BLANCO MESA VERDE		Dedicated Acreage: 320.00 - 320.00 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been 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 IS REISSUED TO SHOW DUAL DEDICATION. 6-29-78

CERTIFICATION

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

A. J. Brice

Drilling Clerk

El Paso Natural Gas Co.

MARCH 12, 1979

Date

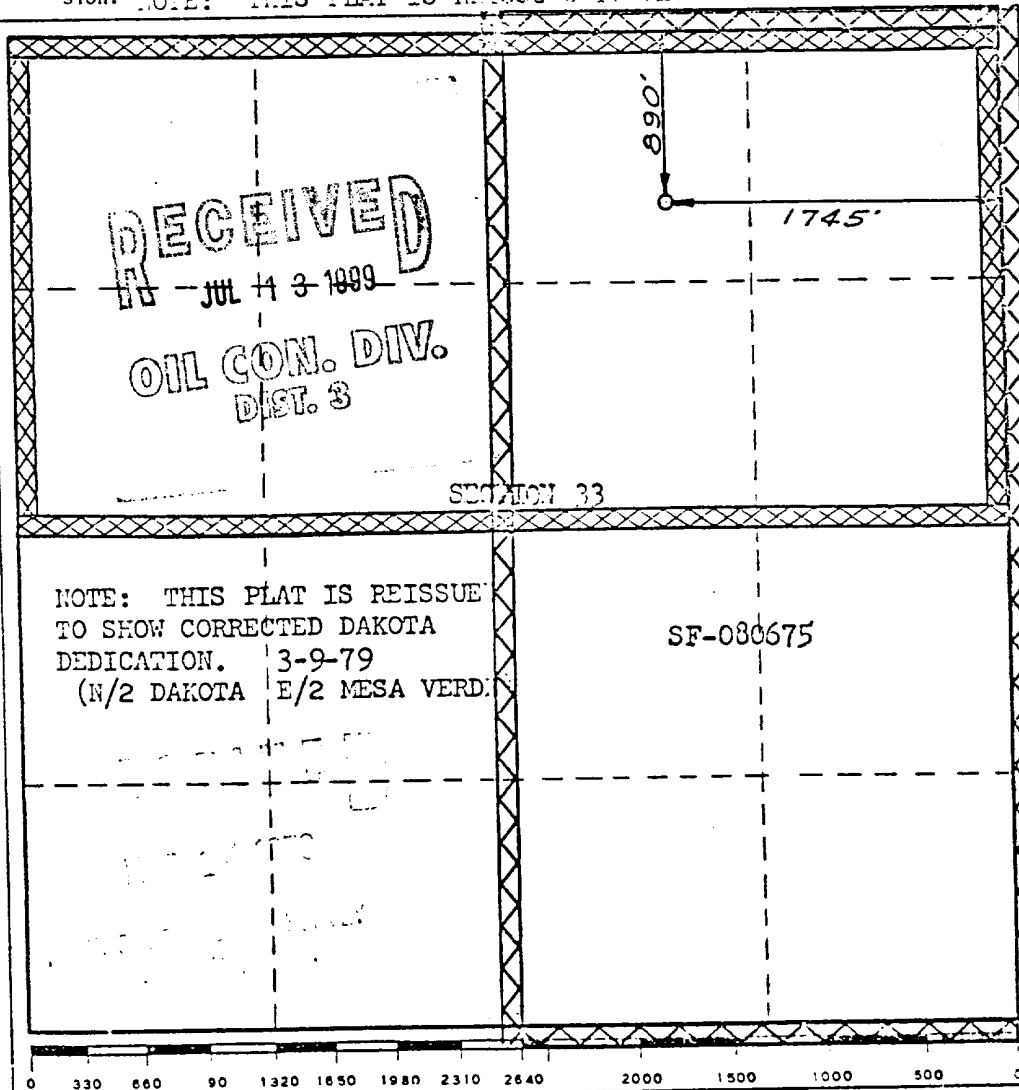
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
SEPTEMBER 25, 1968

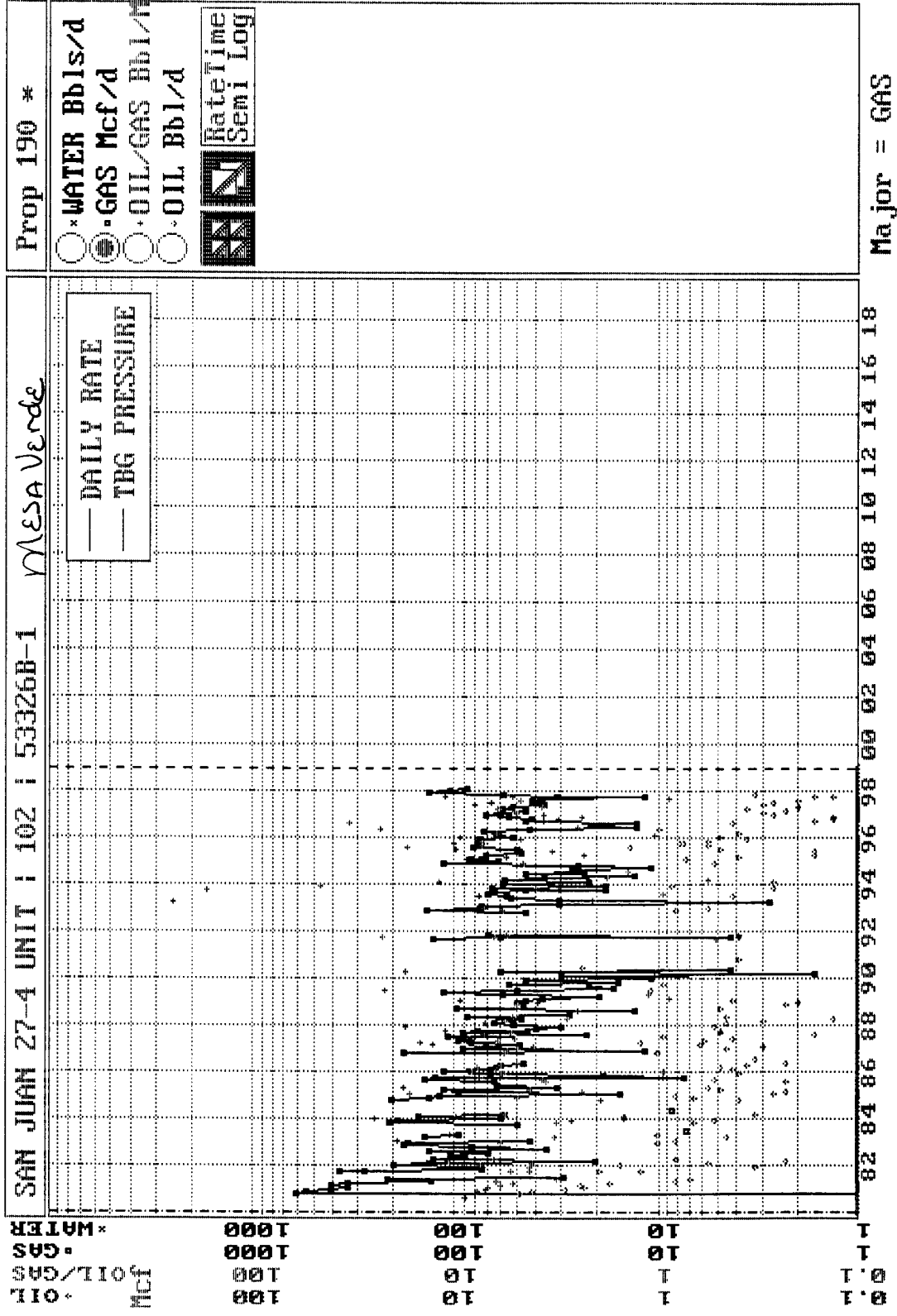
Registered Professional Engineer and/or Land Surveyor

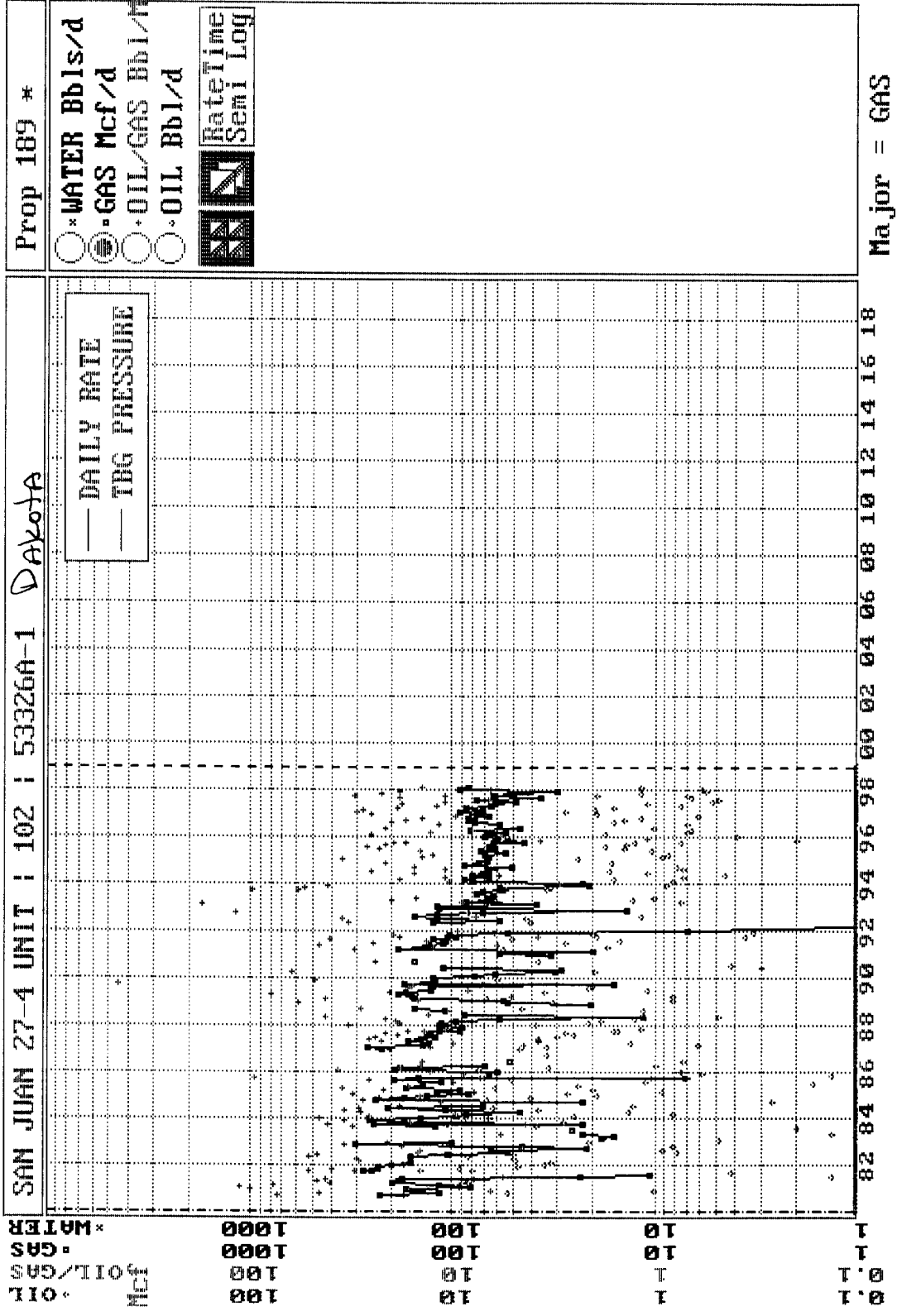
[Signature]

Certificate No. **1760**



see also





Page No.: 2

Print Time: Fri Jun 04 12:26:25 1999

Property ID: 190

Property Name: SAN JUAN 27-4 UNIT | 102 | 53326B-1 *Mesa Verde*

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

06/19/80	0	558.0
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12/08/80	47547	730.0
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Initial

11/03/81	113988	553.0
----------	--------	-------

01/03/84	179921	562.0
----------	--------	-------

03/02/84	188050	555.0
----------	--------	-------

11/02/84	198598	597.0
----------	--------	-------

11/03/86	241334	551.0
----------	--------	-------

08/20/91	306562	546.0
----------	--------	-------

09/11/91	308401	558.0
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3/99	461258	457
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Current Based on Cum GAS vs Pressure Curve

Page No.: 1

Print Time: Fri Jun 04 12:26:25 1999

Property ID: 189

Property Name: SAN JUAN 27-4 UNIT | 102 | 53326A-1

Dakota

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

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

06/12/80	0	967.0	Initial
06/19/80	0	968.0	
11/13/80	15430	1182.0	
02/20/82	86852	787.0	
09/19/83	136901	842.0	
01/03/84	155136	701.0	
05/20/85	209872	650.0	
10/16/88	322438	770.0	
04/22/90	380749	649.0	

3/99

405241

319

Current
Based on Cum Gas vs Pressure Curve

San Juan 27-4 Unit #102
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.701	GAS GRAVITY	0.76
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.17	%N2	0.21
%CO2	0.95	%CO2	1
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	4.052
DEPTH (FT)	6149	DEPTH (FT)	8323
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	152	BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	469	SURFACE PRESSURE (PSIA)	331
BOTTOMHOLE PRESSURE (PSIA)	548.2	BOTTOMHOLE PRESSURE (PSIA)	411.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.701	GAS GRAVITY	0.76
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.17	%N2	0.21
%CO2	0.95	%CO2	1
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	4.052
DEPTH (FT)	6149	DEPTH (FT)	8323
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	152	BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	742	SURFACE PRESSURE (PSIA)	979
BOTTOMHOLE PRESSURE (PSIA)	874.2	BOTTOMHOLE PRESSURE (PSIA)	1258.5

Cumulative Monthly Well Report

October 1998 -- June 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 06/28/1999, 10:44:45

Completion	Date	Cum Oil	Cum Gas	Cum Wat	Cum Gas	Cum Oil	Cum Wat	Cum Gas	Cum Wat
SAN JUAN 27-4 UNIT	11/30/1998	26.10	2,277.56	0.00	2,277.56	26.10	0.00	2,277.56	0.00
	12/31/1998	47.55	1,929.30	0.00	1,929.30	73.65	0.00	4,206.86	0.00
	01/31/1999	13.92	1,552.68	0.00	1,552.68	87.57	0.00	5,759.54	0.00
	02/28/1999	18.56	1,044.70	0.00	1,044.70	106.12	0.00	6,804.24	0.00
	03/31/1999	27.54	1,687.15	0.00	1,687.15	133.66	0.00	8,491.39	0.00
	04/30/1999	-191.66	1,891.29	0.00	1,891.29	-58.00	0.00	10,382.68	0.00
	05/31/1999	6.96	1,127.36	0.00	1,127.36	-51.04	0.00	11,510.04	0.00
	06/30/1999	0.00	0.00	0.00	0.00	-51.04	0.00	11,510.04	0.00
	11/30/1998	0.00	5,620.64	0.00	5,620.64	0.00	0.00	5,620.64	0.00
	12/31/1998	0.00	5,742.24	0.00	5,742.24	0.00	0.00	11,362.88	0.00
	01/31/1999	0.00	5,510.75	0.00	5,510.75	0.00	0.00	16,873.63	0.00
	02/28/1999	0.00	4,988.22	0.00	4,988.22	0.00	0.00	21,861.85	0.00
	03/31/1999	0.00	5,305.98	0.00	5,305.98	0.00	0.00	27,167.83	0.00
	04/30/1999	0.00	3,266.78	0.00	3,266.78	0.00	0.00	30,434.61	0.00
	05/31/1999	0.00	1,067.48	0.00	1,067.48	0.00	0.00	31,502.09	0.00
	06/30/1999	0.00	0.00	0.00	0.00	0.00	0.00	31,502.09	0.00

mv

FARMINGTON

ANNUAL PRODUCTION FOR 53326A

PHS020M1

SAN JUAN 27-4 UNIT 102

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1990      188      11255      18930      390697
1991      830      12085      37619      428316
1992      548      12633      23945      452261
1993      692      13325      23643      475904
1994      292      13617      24913      500817
1995      367      13984      22640      523457
1996      363      14347      23288      546745
1997      431      14778      22514      569259
1998      300      15078      25218      594477

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POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

FARMINGTON 1998 MONTHLY PRODUCTION FOR 53326A
 SAN JUAN 27-4 UNIT 102
 BASIN DAKOTA (PRORATED GAS) FIELD DAKOTA ZONE

PHS030M1

DAYS =====				OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31	02	18		01	2790	31	1248	15.025			
2	2	F	28	02	36		01	2564	28	1248	15.025			
3	2	F	31	02	48		01	2597	31	1248	15.025			
4	2	F	30	02	36		01	2135	30	1248	15.025			
5	2	F	27	02	28	54.4	01	2124	27	1248	15.025			
6	2	F	30	02	21		01	1952	30	1284	15.025			
7	2	F	31	02	15		01	2283	31	1279	15.025			
8	2	F	31	02	27		01	2094	31	1279	15.025			
9	2	F	30	02	36		01	2121	30	1279	15.025			
10	2	F	31	02	35		01	2285	31	1279	15.025			
11	2	F					01	2273		1279	15.025			
12														

PF6 - RETURNS TO ANNUAL DISPLAY
 PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
 PF9 - DISPLAY MONTHLY INJECTION
 PRS 01/06/99

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

FARMINGTON

ANNUAL PRODUCTION FOR 53326B

PHS020M1

SAN JUAN 27-4 UNIT 102

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

```
=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER  WATER CUM
1990      116      2068      3265      302700
1991       30      2098      7956      310656
1992       42      2140      7935      318591
1993      167      2307     16071      334662
1994       28      2335     15045      349707
1995      193      2528     25261      374968
1996       94      2622     16840      391808
1997       76      2698     18537      410345
1998        5      2703     29365      439710
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POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

FARMINGTON 1998 MONTHLY PRODUCTION FOR 53326B
 SAN JUAN 27-4 UNIT 102
 BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

PHS030M1

		DAYS =====		OIL =====		=====		GAS =====						
MO	T S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C	
1	2 F	31	02			01	3226	31	1200	15.025				
2	2 F	28	02			01	2697	28	1200	15.025				
3	2 F	31	02			01	2563	31	1200	15.025				
4	2 F	30	02	3		01	2074	30	1200	15.025				
5	2 F	27	02	2		01	2126	27	1200	15.025				
6	2 F	30	02			01	1494	30	1194	15.025				
7	2 F	31	02			01	1750	31	1194	15.025				
8	2 F	31	02			01	1923	31	1194	15.025				
9	2 F	30	02			01	1875	30	1194	15.025				
10	2 F	31	02			01	4017	31	1194	15.025				
11	2 F					01	5620		1194	15.025				
12														

PF6 - RETURNS TO ANNUAL DISPLAY
 PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
 PF9 - DISPLAY MONTHLY INJECTION
 PRS 01/06/99

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

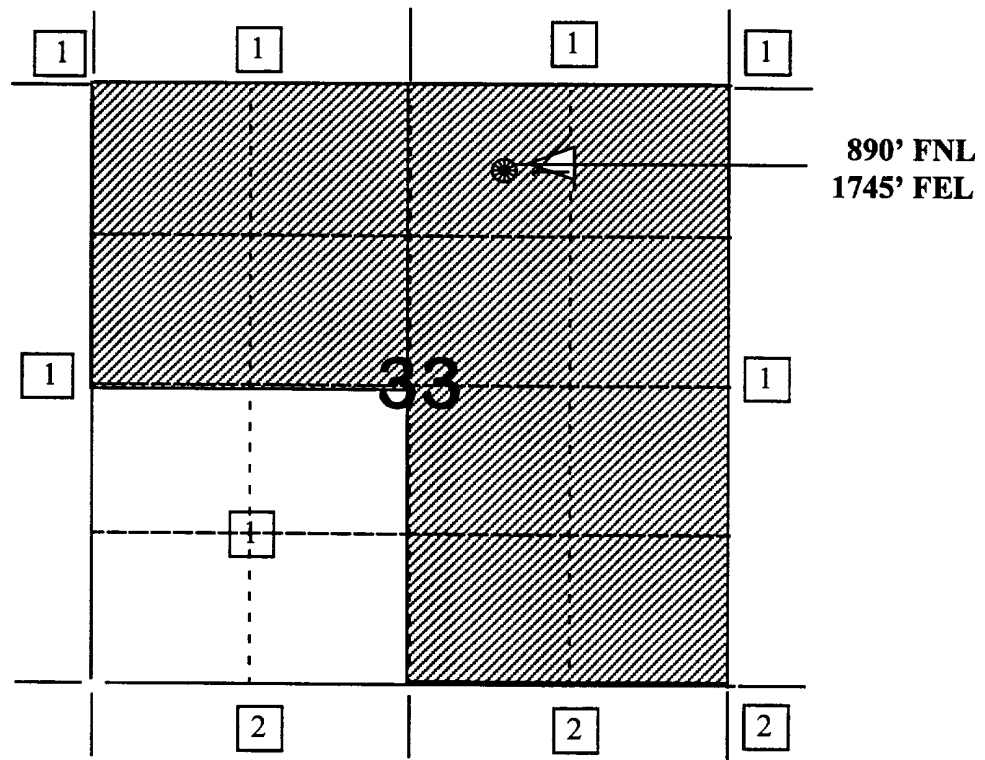
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #102

OFFSET OPERATOR/OWNER PLAT

**Mesaverde (E/2) / Dakota (N/2) Formations
Commingled Well**

Township 27 North, Range 4 West



- 1) Burlington Resources
- 2) Amoco Production Company
C/O Don Duhrkopf
501 West Lake Park Blvd.
Houston, TX 77079-2696

