

1625 N. French 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

99A
Well No.

C, Sec 16, 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. 30-039-2237200 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	Tapacito Pictured Cliff - 85920		Blanco Mesa Verde - 72319
2. Top and Bottom of Pay Section (Perforations)	3966' - 4090'		5742' - 6582'
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. 479 psia @ 4028' (Original) b. 1204 psia @ 4028'	RECEIVED JUL 13 1999 OIL CON. DIV. DIST. 3 a. b.	a. 263 psia @ 6162' b. 1288 psia @ 6162'
6. Oil Gravity (EAPI) or Gas BTU Content	1244 BTU		1222 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: 36 MCFD 0 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 59 MCFD, 0 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

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

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 27-4 UNIT (SF-080674)		Well No. 99-A
Unit Letter C	Section 16	Township 27N	Range 1W	County Rio Arriba	
Actual Footage Location of Well:					
810 feet from the North line and		1835 feet from the West line			
Ground Level Elev. 7138	Producing Formation PICTURED MESA VERDE - CLIFFS		TAPACITO PICTURED CLIFFS EXT. BLANCO MESA VERDE		Dedicated Acreage: 320.00 & 160.00

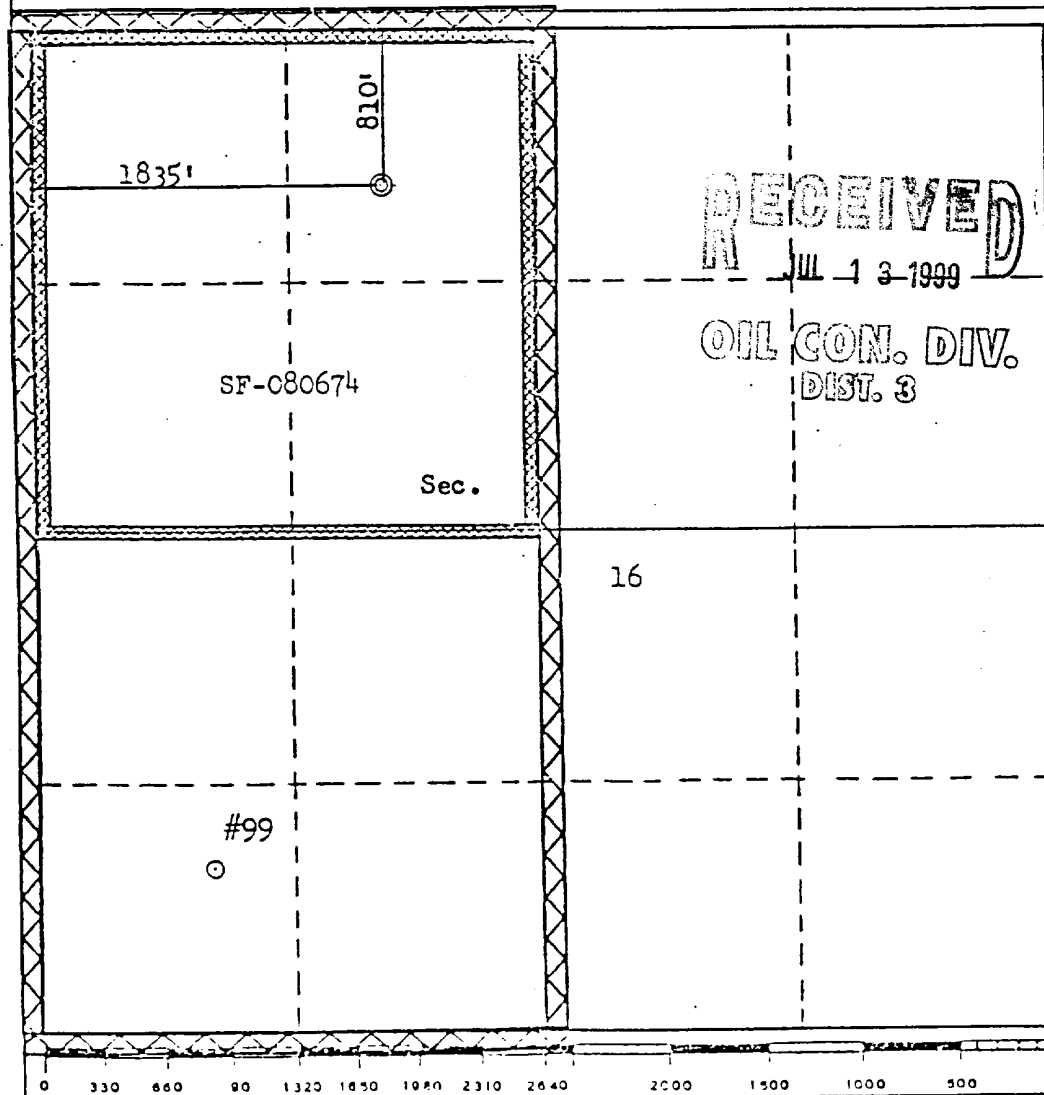
- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated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

Unitization

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side 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 COMPLETION. 1-4-80



CERTIFICATION

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

Name *Drilling Clerk*
Position Drilling Clerk

Company El Paso Natural Gas

Date April 22, 1980

Date

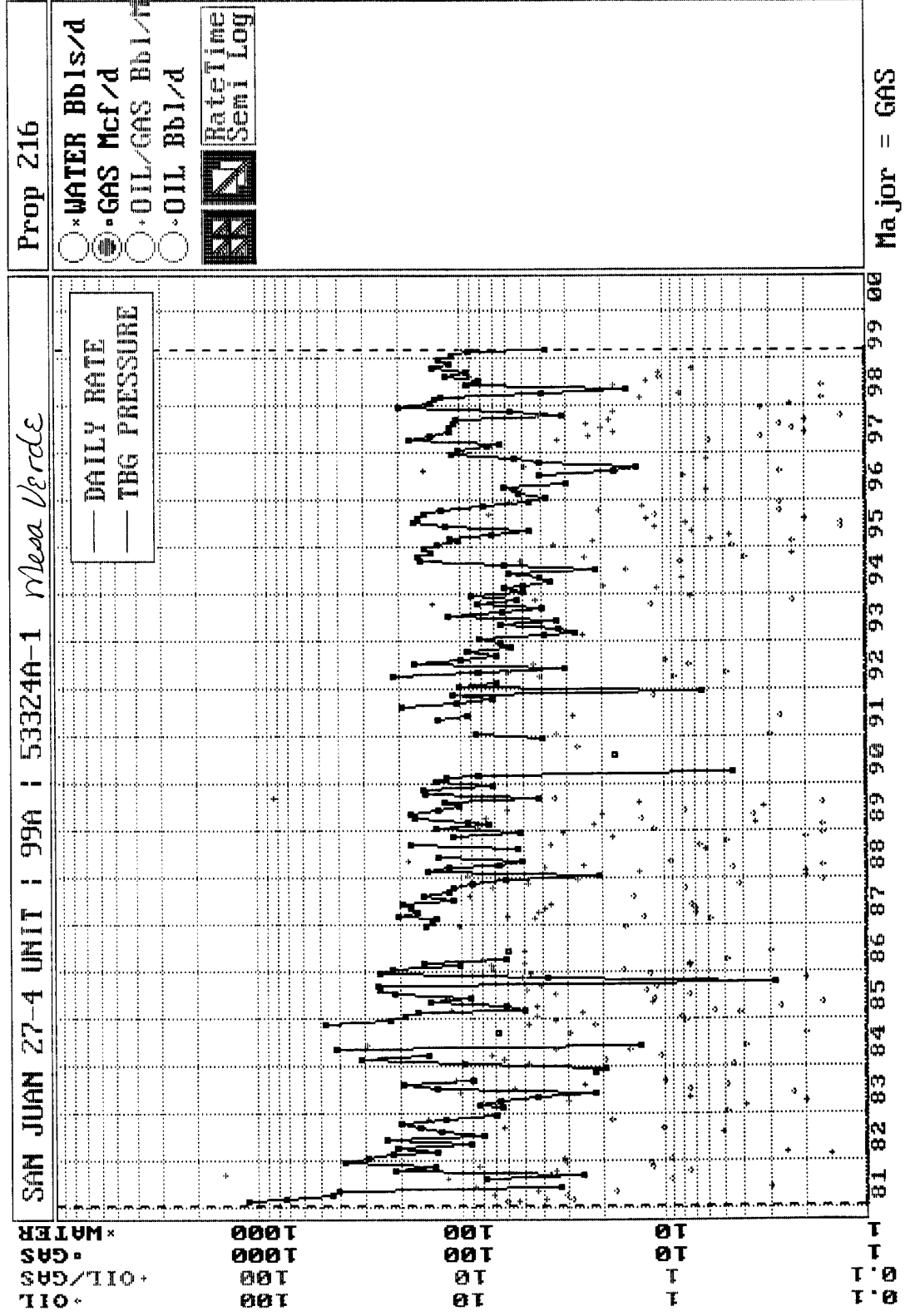
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.

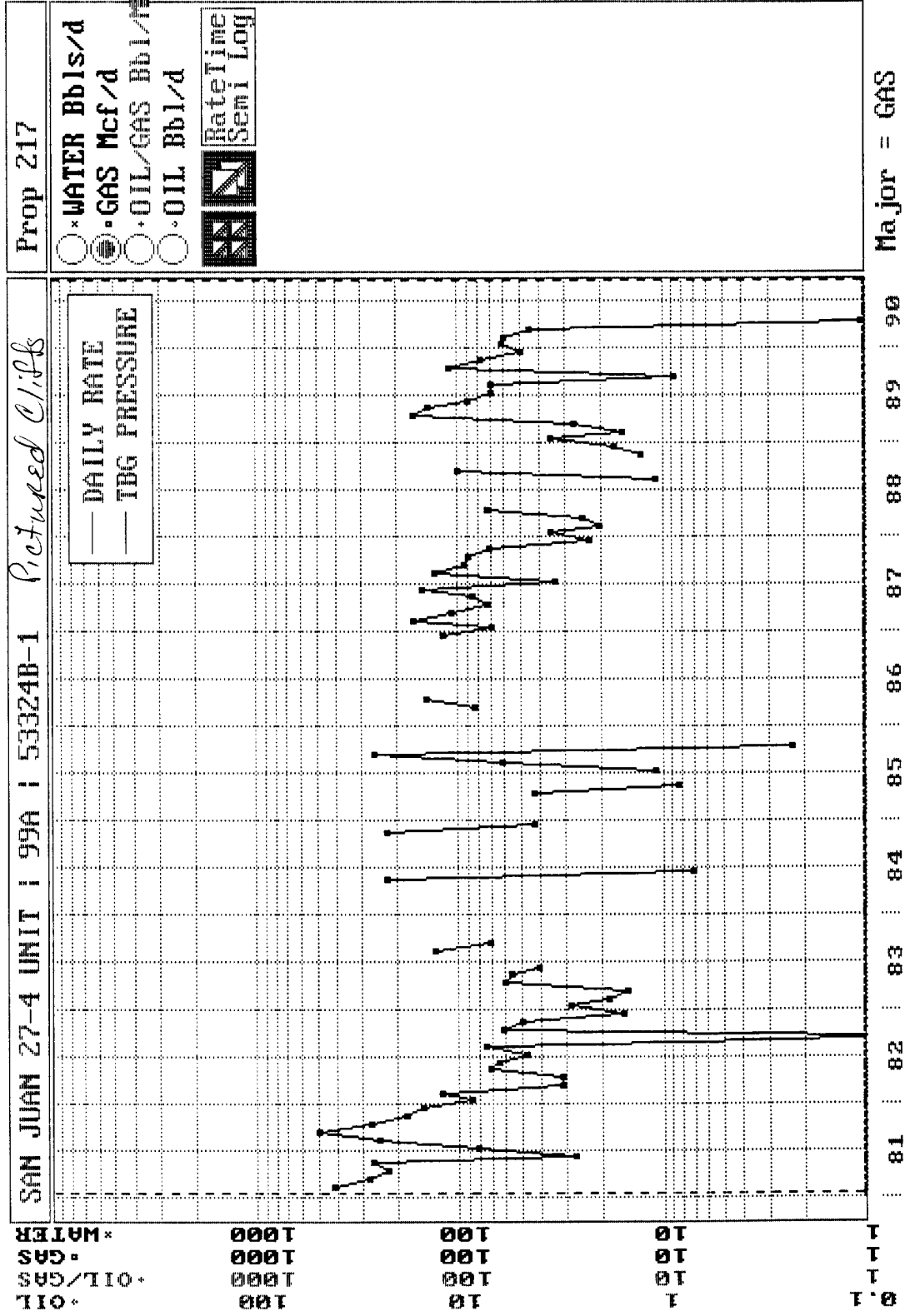
Date Surveyed December 19, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 3950





Major = GAS

Page No.: 1

Print Time: Mon May 24 15:08:45 1999

Property ID: 1302

Property Name: SAN JUAN 27-4 UNIT | 99A | 53324A-1 Mesa Verde

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

--DATE--	---CUM_GAS-- Mcf	M SIWHP Psi
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11/24/80	0	1076.0
12/01/80	0	1077.0
03/13/81	57179	691.0
11/03/82	166636	524.0
09/13/83	190053	627.0
06/05/84	221573	565.0
01/04/87	324685	576.0
10/04/89	435999	472.0
06/28/91	464480	543.0
08/20/91	470626	531.0
05/31/93	519058	435.0

3/31/99	704056	215
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Original
CURRENT
Based on CumGas vs pressure Curve

Page No.: 2

Print Time: Mon May 24 15:08:45 1999

Property ID: 1303

Property Name: SAN JUAN 27-4 UNIT | 99A | 53324B-1 *Pictured Cliffs*

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

<u>--DATE--</u>	<u>---CUM_GAS--</u>	<u>M SIWHP</u>
	Mcf	Psi

11/13/80	0	1052.0
12/01/80	0	1053.0
03/13/81	21302	733.0
11/03/82	100112	673.0
09/13/83	113445	633.0
06/05/84	120534	667.0
04/21/86	147561	601.0
04/15/89	223562	587.0
10/04/89	216110	572.0
09/11/91	231496	586.0
05/31/93	253768	576.0

3/31/99	339392	418
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Original

*CURRENT
BASED ON Cum GAS vs Pressure Curve*

San Juan 27-4 Unit #99A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Pictured Cliffs		Mesa Verde	
<u>PC-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.72	GAS GRAVITY	0.685
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	1.03	%N2	0.19
%CO2	0.15	%CO2	0.96
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	4028	DEPTH (FT)	6162
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	122	BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	430	SURFACE PRESSURE (PSIA)	227
BOTTOMHOLE PRESSURE (PSIA)	479.0	BOTTOMHOLE PRESSURE (PSIA)	262.5
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.72	GAS GRAVITY	0.685
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	1.03	%N2	0.19
%CO2	0.15	%CO2	0.96
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	4028	DEPTH (FT)	6162
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	122	BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1064	SURFACE PRESSURE (PSIA)	1088
BOTTOMHOLE PRESSURE (PSIA)	1204.9	BOTTOMHOLE PRESSURE (PSIA)	1287.5

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, 10:43:50

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
SAN JUAN 27-4 UNIT 99A <i>Mesa Verde</i> <i>Pictured Cliffs</i>	11/30/1998	6.67	6.67	3,443.29	3,443.29	1.16	1.16
	12/31/1998	0.00	6.67	3,920.72	7,364.01	0.00	1.16
	01/31/1999	17.38	24.05	3,363.87	10,727.88	0.00	1.16
	02/28/1999	12.75	36.80	2,796.12	13,524.00	0.00	1.16
	03/31/1999	0.87	37.67	1,203.15	14,727.15	0.00	1.16
	04/30/1999	0.00	37.67	2,515.51	17,242.66	0.00	1.16
	05/31/1999	1.74	39.41	1,842.34	19,085.00	0.00	1.16
	06/30/1999	0.00	39.41	0.00	19,085.00	0.00	1.16
	11/30/1998	0.00	0.00	1,658.39	1,658.39	0.00	0.00
	12/31/1998	0.00	0.00	1,566.25	3,224.64	0.00	0.00
	01/31/1999	0.00	0.00	1,067.25	4,291.89	0.00	0.00
	02/28/1999	0.00	0.00	937.78	5,229.67	0.00	0.00
	03/31/1999	0.00	0.00	807.45	6,037.12	0.00	0.00
	04/30/1999	0.00	0.00	1,156.44	7,193.56	0.00	0.00
	05/31/1999	0.00	0.00	1,123.13	8,316.69	0.00	0.00
	06/30/1999	0.00	0.00	0.00	8,316.69	0.00	0.00

FARMINGTON ANNUAL PRODUCTION FOR 53324A PHS020M1

SAN JUAN 27-4 UNIT 99A

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE 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
1991       51       2218      24409     479584
1992       68       2286      32189     511773
1993       47       2333      22138     533911
1994       45       2378      30258     564169
1995       91       2469      40218     604387
1996       13       2482      15737     620124
1997       64       2546      39324     659448
1998       53       2599      33323     692771
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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 53324A
 SAN JUAN 27-4 UNIT 99A
 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	1		01	4268	31	1186	15.025				
2	2	F	28	02			01	4047	28	1186	15.025				
3	2	F	31	02	5		01	3844	31	1186	15.025				
4	2	F	27	02	1		01	1225	27	1186	15.025				
5	2	F	27	02			01	465	27	1170	15.025				
6	2	F	30	02	5		01	2860	30	1170	15.025				
7	2	F	31	02	3		01	2499	31	1170	15.025				
8	2	F	31	02	32		01	3594	31	1170	15.025				
9	2	F	30	02	3		01	2891	30	1170	15.025				
10	2	F	31	02	3		01	4188	31	1170	15.025				
11	2	F					01	3442		1170	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 53324B

PHS020M1

SAN JUAN 27-4 UNIT 99A

TAPACITO (PICTURED CLIFFS) FIELD

PICTURED CLIFFS 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
1991                                9067      234336
1992                                17203     251539
1993                                12483     264022
1994                                7968      271990
1995                                18608     290598
1996                                16255     306853
1997                                14887     321740
1998                                11615     333355
=====

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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 53324B
 SAN JUAN 27-4 UNIT 99A
 TAPACITO (PICTURED CLIFFS) FIELD PICTURED CLIFFS ZONE

PHS030M1

DAYS =====			OIL =====			=====			GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	1246	31	1216	15.025			
2	2	F					01	513	28	1216	15.025			
3	2	F					01	703	31	1216	15.025			
4	2	F					01	1616	25	1216	15.025			
5	2	F					01	2052	27	1229	15.025			
6	2	F					01	857	30	1229	15.025			
7	2	F					01	900	31	1229	15.025			
8	2	F					01	1095	31	1229	15.025			
9	2	F					01	683	30	1229	15.025			
10	2	F					01	1950	31	1229	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

BURLINGTON RESOURCES OIL AND GAS COMPANY

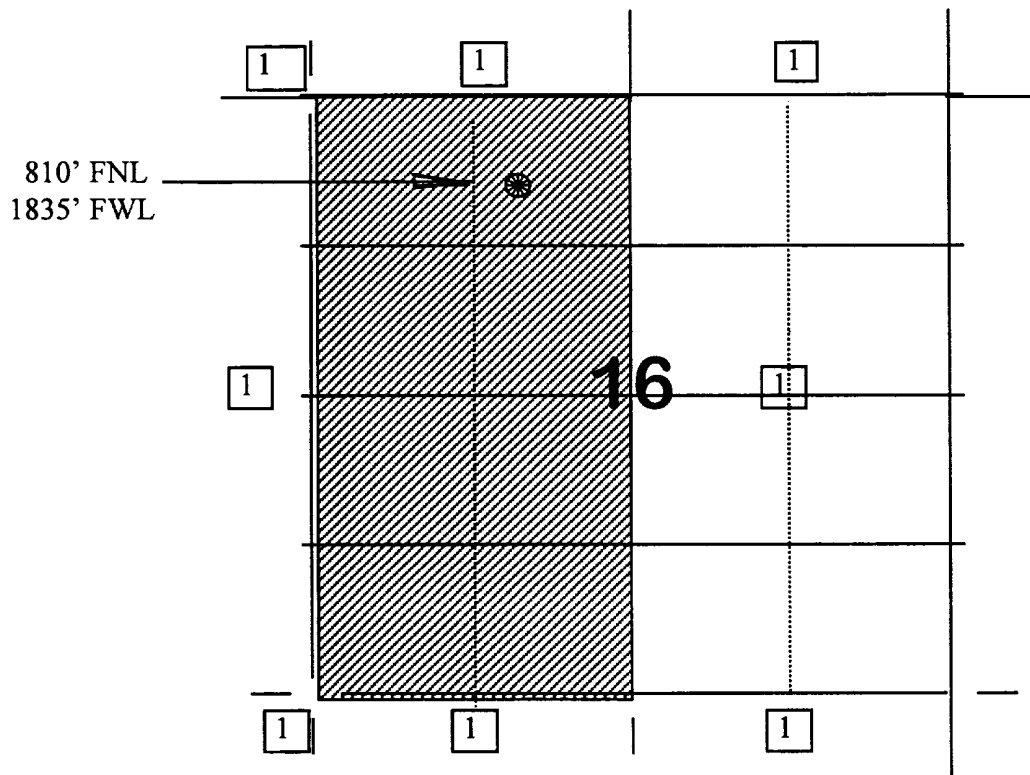
San Juan 27-4 Unit #99A

OFFSET OPERATOR/OWNER PLAT

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

Commingle well

Township 27 North, Range 4 West



1) Burlington Resources

SJ 15A ○	SJ 39 ☼	SJ 18 ☼	SJ 152 ○
SJ 5 ☼ SJ 123 ☼	SJ 124A ○ 8 SJ 124 ☼ SJ 42 ☼ SJ 125A ○	9 SJ 139 ○ SJ 134 ☼ SJ 7 ☼	10 SJ 98 ☼ SJ 140 ○
SJ 121 ☼ SJ 44 ○ SJ 121A ○	SJ 16A ○ 17 SJ 16 ☼ SJ 16R ☼ SJ 43 ☼ SJ 73 ☼	San Juan 27-4 #99A ○ 16 SJ 71 ☼ SJ 99 ○ SJ 138 ○	SJ 3 ○ 15 SJ 141 ○
SJ 45 ○	SJ 47 ○ 20 SJ 48 ☼ SJ 126 ☼	SJ 75 ○ 21 SJ 56 ☼ SJ 78 ☼ SJ 145 ○ SJ 77 ○	SJ 142 ☼ SJ 60 ● SJ 76 ☼ 22 SJ 79 ☼ SJ 149 ○ SJ 143 ○

San Juan 27-4 #99A
Sec 16, T27N, R4W
Pictured Cliffs/Mesa Verde