

DISTRICT I
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

Form C-107-A
Revised August 1999

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas

Operator **Lawson** Address **1A D-12-31N-11W San Juan**
Lease Well No. Unit Ltr. - Sec - Twp - Rge County
Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 7252 API NO. 30-045-22124 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 Pictured Cliffs- 72359		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	2724-2779		4313-5260
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	a. (Current) 353 psi (see attachment) b. (Original) 851 psi (see attachment)	RECEIVED OCT 18 1999 OIL CON. DIV. DIST. 2	a. 370 psi (see attachment) b. 908 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1133		BTU 1133
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 * If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
	Date: 9/2/99 Rates: 20 mcf/d	Date: Rates:	Date: 9/2/99 Rates: 60 mcf/d
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		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

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. 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 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 Mary Ellen Lutey TITLE PRODUCTION ENGINEER DATE 10-8-99

TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

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

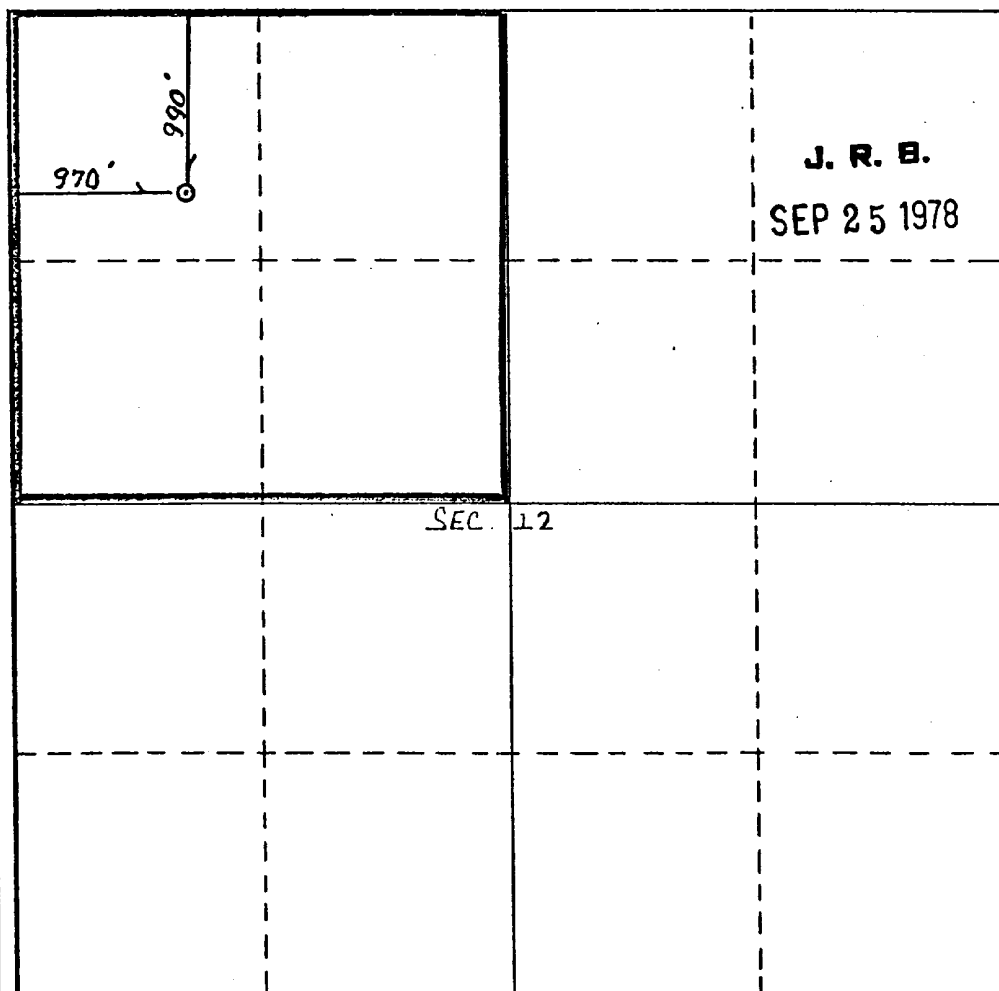
Operator SOUTHLAND ROYALTY COMPANY			Lease LAWSON		Well No. 1A
Unit Letter D	Section 12	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 970 feet from the West line					
Ground Level Elev:	Producing Formation Pictured Cliffs	Pool Blanco	Dedicated Acreage: 160 Acres		

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?

☐ 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 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.



CERTIFICATION

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

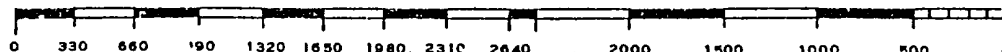
Name J. R. B.
 Position
District Engineer
 Company
Southland Royalty Company
 Date
September 22, 1978

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 _____

Registered Professional Engineer
 and/or Land Surveyor

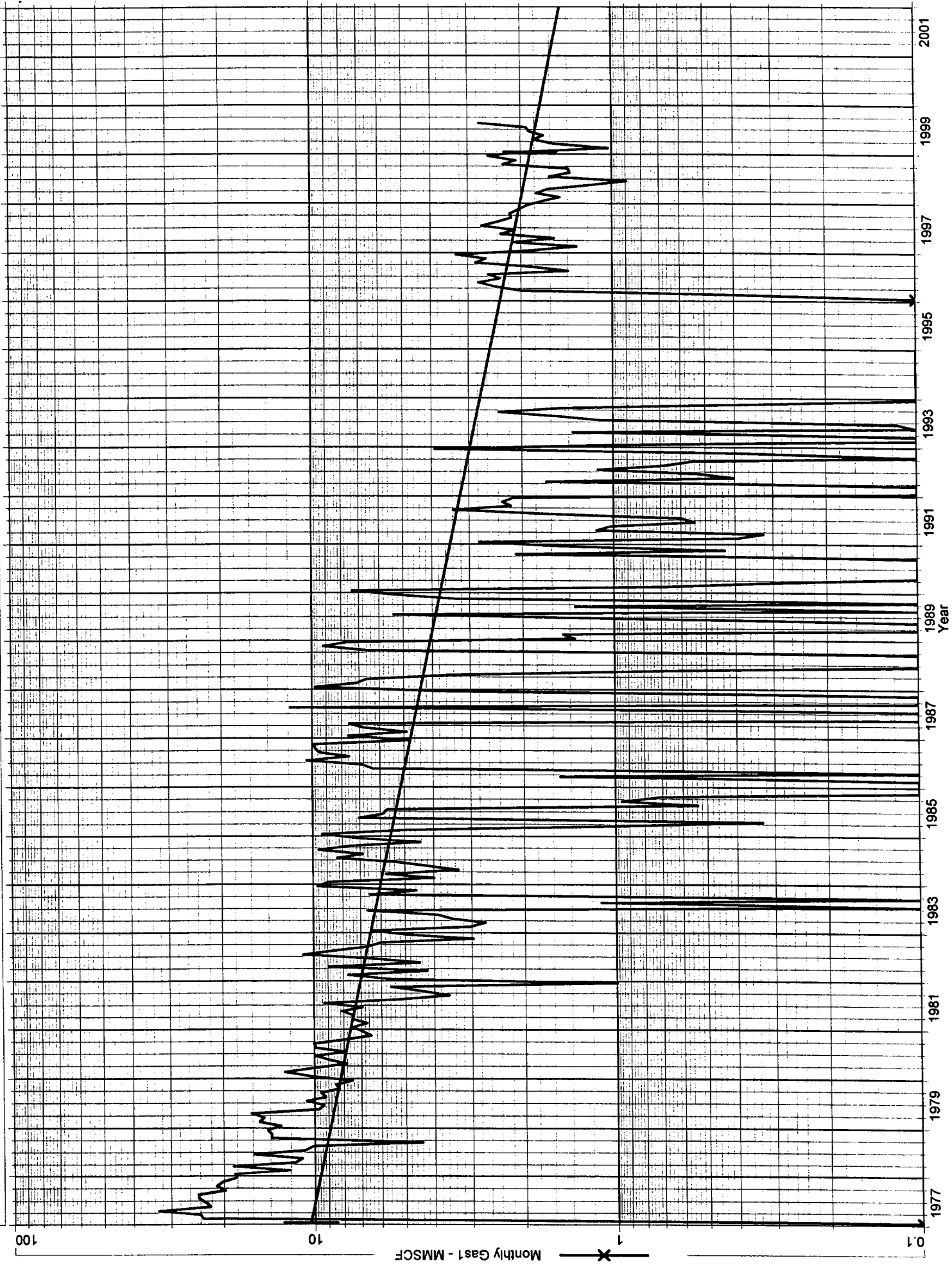
Certificate No. _____

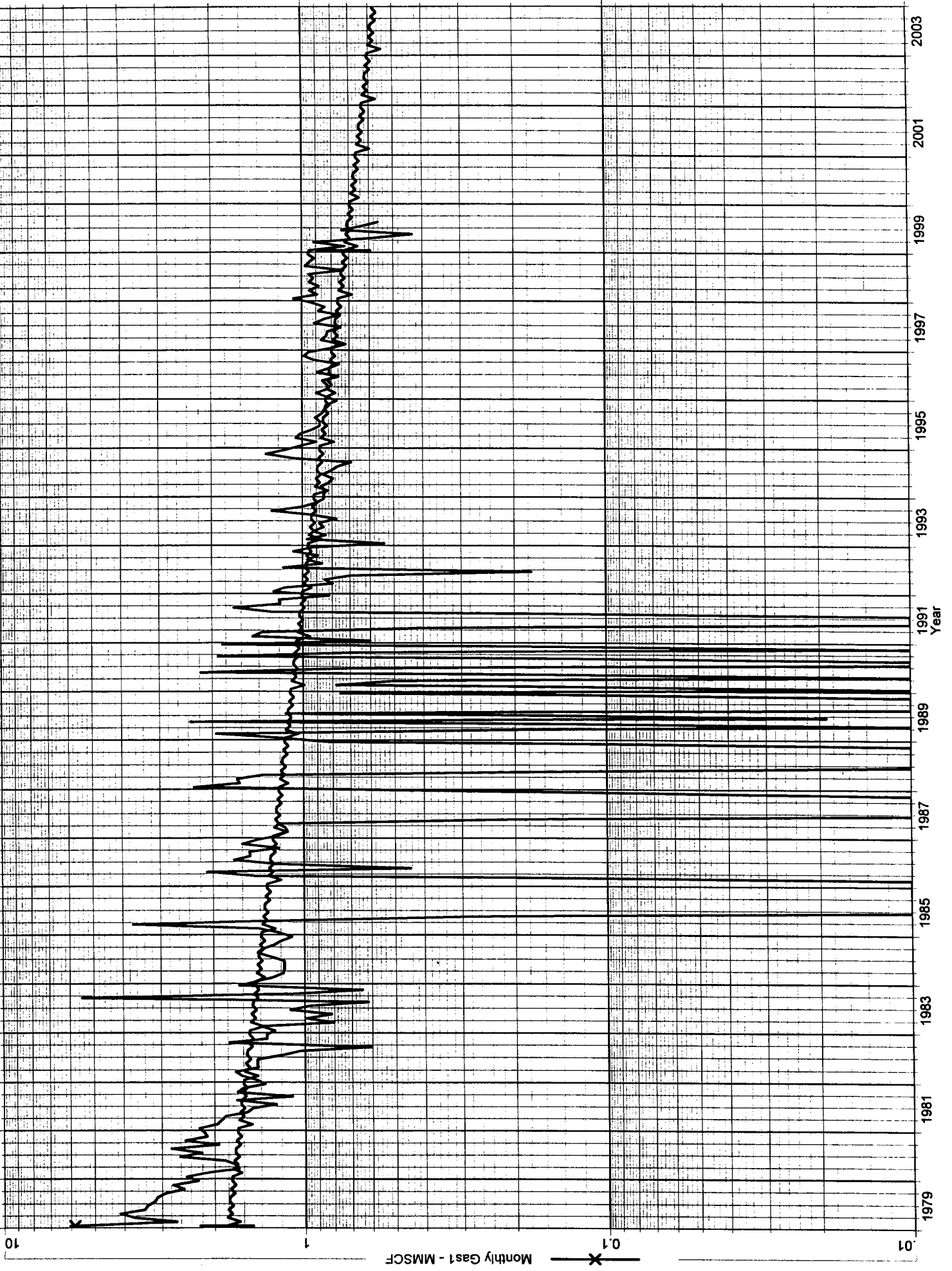


		year	month	day	wh psi	cum prod	
MV	LAWSON 1A/4217601	1976		9	9	785	original
	LAWSON 1A	1977		3	25	660	
	LAWSON 1A	1978		7	17	542	
	LAWSON 1A	1979		5	16	528	
	LAWSON 1A	1980		8	24	468	
	LAWSON 1A	1982		4	24	411	
	LAWSON 1A	1984		7	11	482	
	LAWSON 1A	1986		6	11	452	
	LAWSON 1A	1989		10	26	414	
	LAWSON 1A	1991		5	14	451	
	LAWSON 1A	1991		5	28	463	
	LAWSON 1A	1993		4	29	342	
						316	
PC	LAWSON 1A/4217602	1979		2	18	782	original
	LAWSON 1A	1981		9	24	651	
	LAWSON 1A	1982		4	24	571	
	LAWSON 1A	1984		7	11	573	
						319	
						1267.64	current estimate from P/Z data
						274.321	current estimate from P/Z data

Lawson #1A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Pictured Cliffs		Mesaverde	
<u>PC-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	<u>0.644</u>	GAS GRAVITY	<u>0.707</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.2</u>	%N2	<u>0.15</u>
%CO2	<u>0.67</u>	%CO2	<u>1.18</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.0625</u>
DEPTH (FT)	<u>2752</u>	DEPTH (FT)	<u>4787</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>110</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>147</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>331</u>	SURFACE PRESSURE (PSIA)	<u>328</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>353.0</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>369.7</u>
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	<u>0.644</u>	GAS GRAVITY	<u>0.707</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.2</u>	%N2	<u>0.15</u>
%CO2	<u>0.67</u>	%CO2	<u>1.18</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.0625</u>
DEPTH (FT)	<u>2752</u>	DEPTH (FT)	<u>4787</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>110</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>147</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>794</u>	SURFACE PRESSURE (PSIA)	<u>797</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>851.3</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>908.4</u>

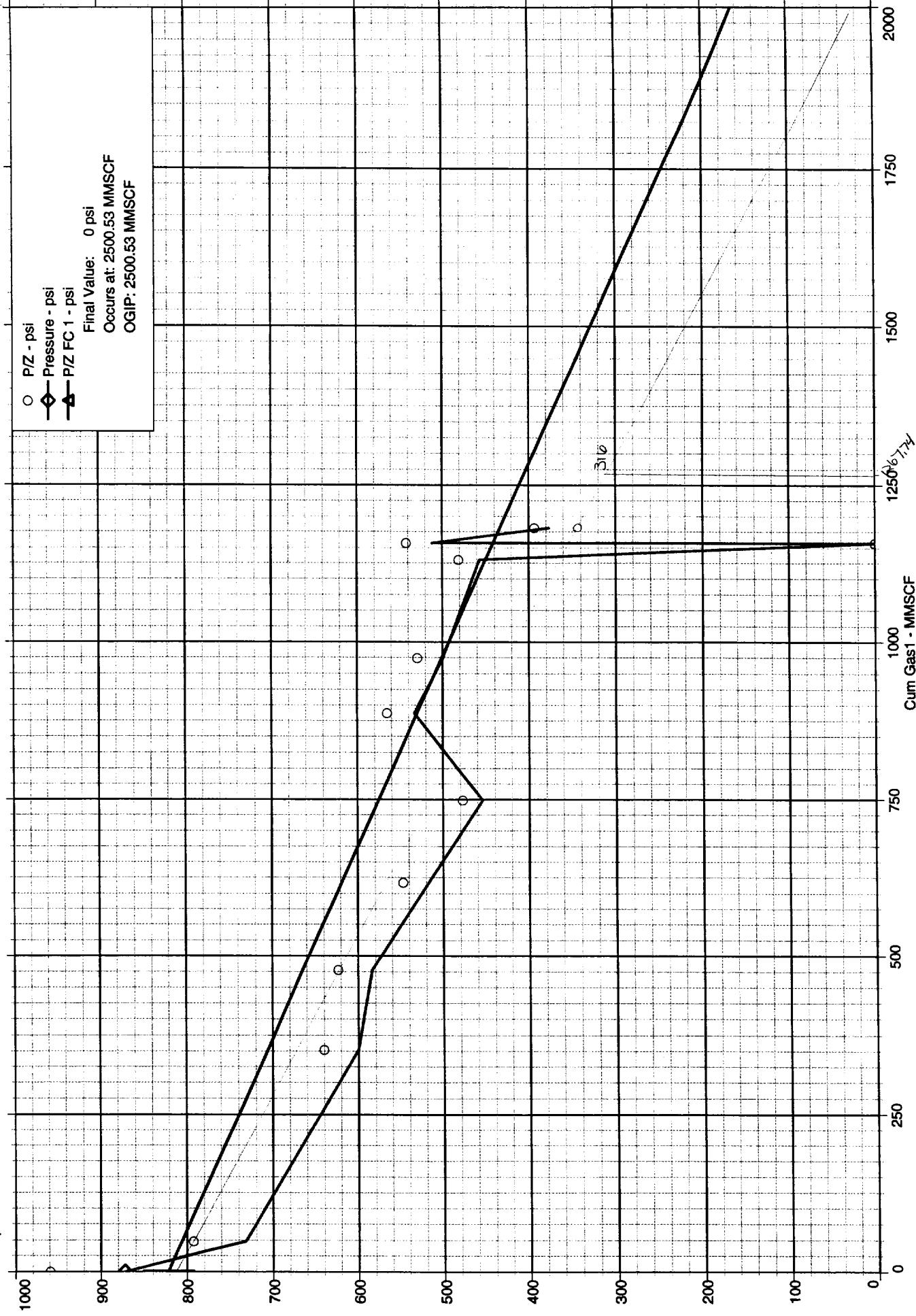




269996804282.094 LAWSON 1A (269996804282.094) Data: Sep. 1976-Jun. 1999

Operator: BURLINGTON RESOURCES OG
Field: BLANCO MESAVERDE (PRORATED GAS)

Zone:
Type: Gas
Group: None



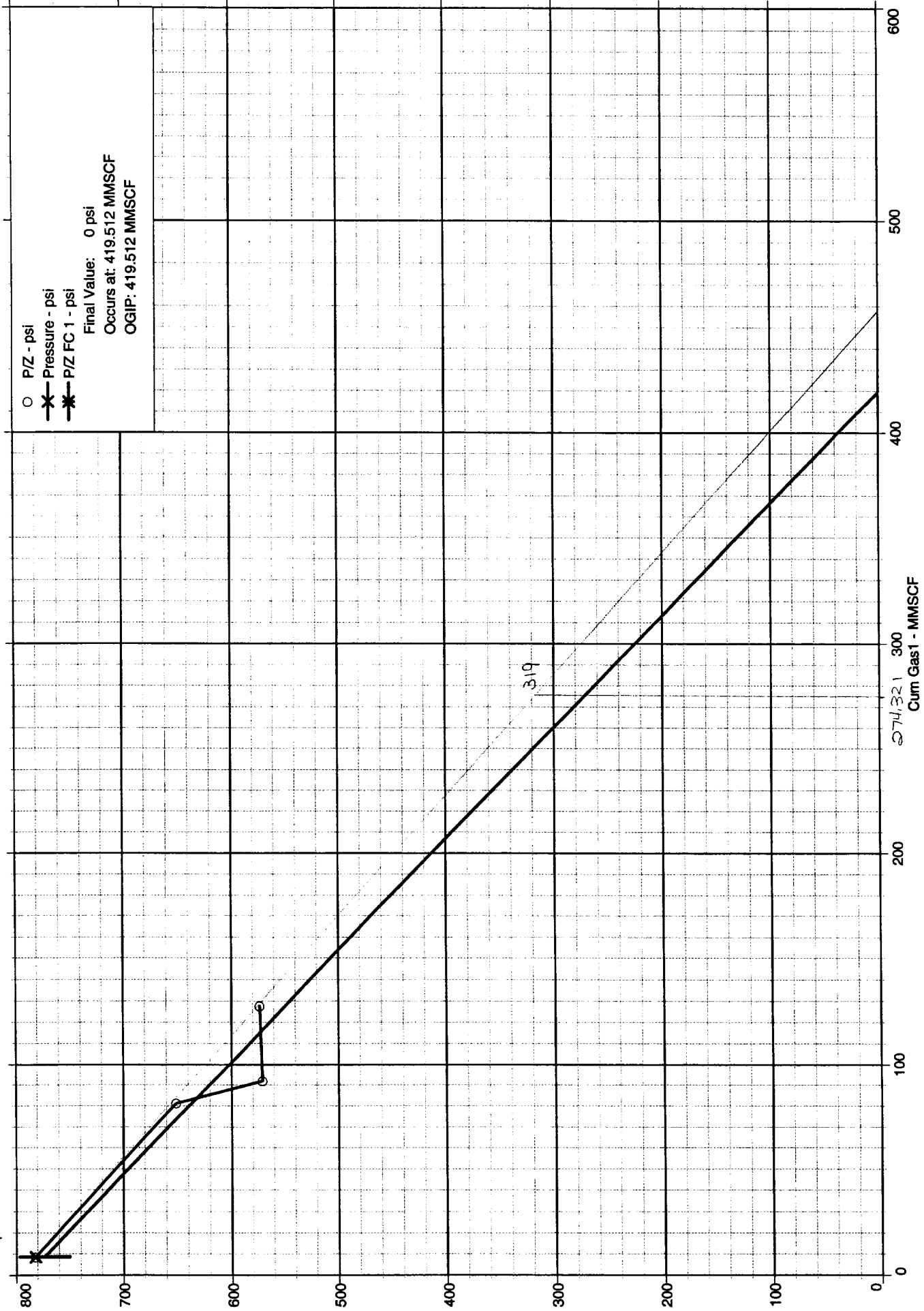
286427995719.344 LAWSON 1A (286427995719.344) Data: Jan.1979-Jun.1999

Operator: BURLINGTON RESOURCES OG
Field: BLANCO PICTURED CLIFFS (GAS)

Zone:
Type: Gas
Group: None

P/Z FC 1 (P/Z Analysis)
Based On: P/Z
Vs: Cum Gas1
Final Value: 0 psi
Occurs at: 419.512 MMSCF

Production Cums
Oil: 0 MSTB
Gas: 274.321 MMSCF
Water: 0.015 MSTB
Cond: 0 MSTB



Monthly Prod History (DM)

Tuesday, September 01, 1998 Through Tuesday, August 31, 1999

Select By : Completions

Pressure Base : None
Units :
Rounded (y/n) : No

Page No : 1
Report Number : R_027
Print Date : 09/23/1999, 1:35:48 P

Sort By :

PROD MO.	TY	ST	PM	DAYS ON	OIL		GAS		WATER	
					PROD	SOL	PROD	SOLD	INJ	SUPP
Well: LAWSON 1A										
11/98	PG	P	FL	30	0.00	1.16	2,073	0	0	0.00
12/98	PG	P	FL	31	0.00	0.00	2,567	0	0	0.00
10/98	PG	P	FL	0	0.00	0.00	30	0	0	0.00
11/98	PG	P	FL	0	0.00	0.00	912	0	0	0.00
12/98	PG	P	FL	31	0.00	0.00	954	0	0	0.00
Totals :	1998				0.00	1.16	6,535.90	0.00	0.00	0.00
01/99	PG	P	FL	31	5.81	0.00	2,009	0	0	0.00
02/99	PG	P	FL	28	0.00	0.00	1,026	0	0	0.00
03/99	PG	P	FL	31	0.00	0.00	1,551	0	0	0.00
04/99	PG	P	FL	30	0.00	0.00	1,811	0	0	0.00
05/99	PG	P	FL	31	0.00	0.00	1,682	0	0	0.00
06/99	PG	P	FL	30	11.57	0.00	1,874	0	0	0.00
07/99	PG	P	FL	31	0.00	0.00	1,914	0	0	0.00
08/99	PG	P	FL	31	3.47	0.00	2,755	0	0	0.00
01/99	PG	P	FL	31	0.00	0.00	946	0	0	0.00
02/99	PG	P	FL	28	0.00	0.00	720	0	0	0.00
03/99	PG	P	FL	31	0.00	0.00	914	0	0	0.00
04/99	PG	P	FL	30	0.00	0.00	588	0	0	0.00
05/99	PG	P	FL	31	0.00	0.00	432	0	0	0.00
06/99	PG	P	FL	30	0.00	0.00	739	0	0	0.00
07/99	PG	P	FL	31	0.00	0.00	630	0	0	0.00
08/99	PG	P	FL	31	0.00	0.00	561	0	0	0.00
Totals :	1999				20.85	0.00	20,153.23	0.00	0.00	0.00
Totals LAWSON 1A					20.85	1.16	26,689.13	0.00	0.00	0.00