

DATE IN 10/19/99	SUSPENSE 11/8/99	ENGINEER DC	LOGGED BY KN	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



2510

**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]

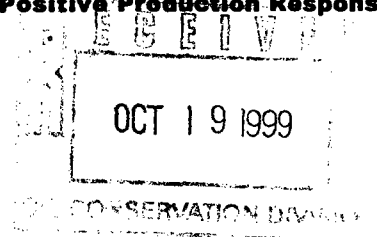
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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  
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)	a. b.	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	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	Date: 9/2/99 Rates: 20 mcf/d	Date: Rates:	Date: 9/2/99 Rates: 60 mcf/d
* If Producing, give date and oil/gas/ water rates of recent test (within 60 days)			
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.

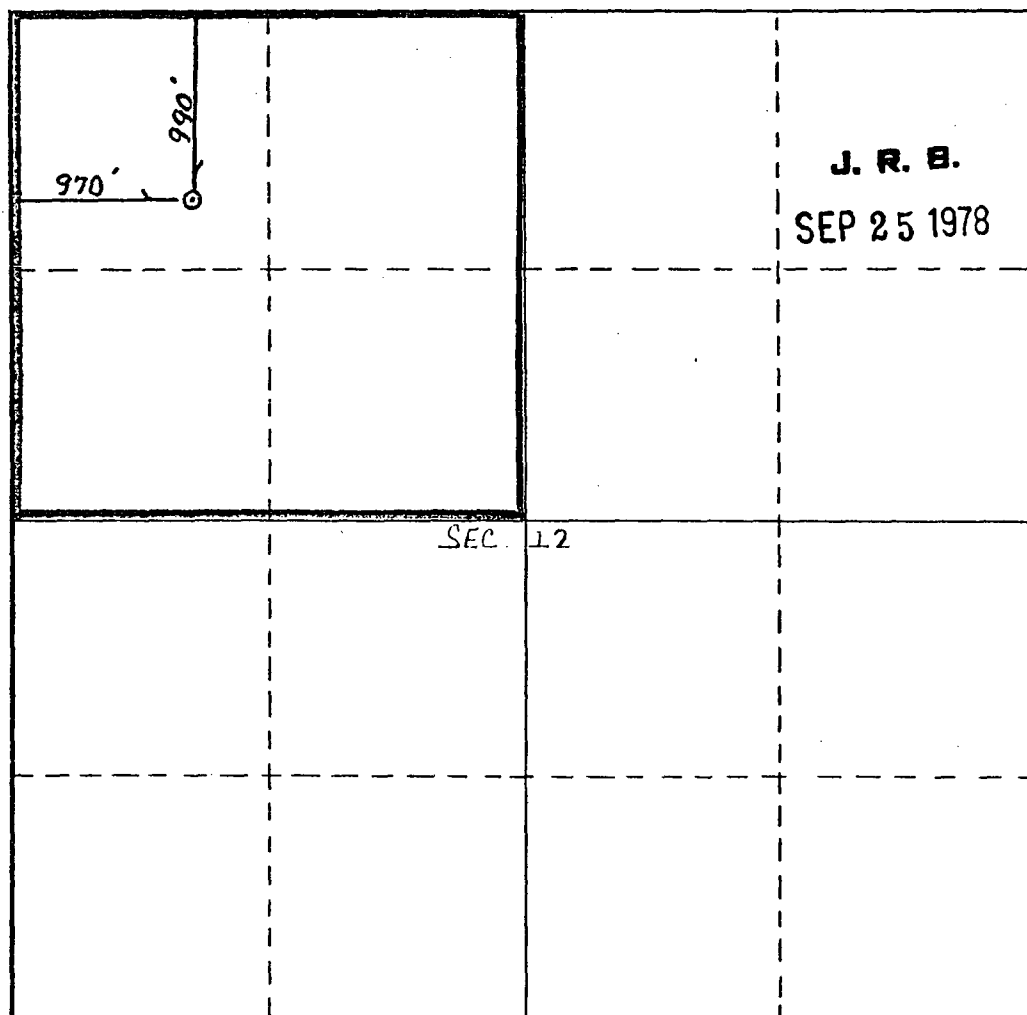
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>LAWSON</b>		Well No. <b>1A</b>
Unit Letter <b>D</b>	Section <b>12</b>	Township <b>31N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span><b>990</b> feet from the <b>North</b> line and</span> <span><b>970</b> feet from the <b>West</b> line</span> </div>					
Ground Level Elev:	Producing Formation <b>Pictured Cliffs</b>	Pool <b>Blanco</b>	Dedicated Acreage: <b>160</b> 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.*

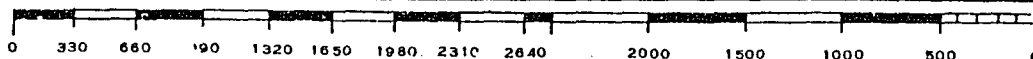
Name *J. R. B.*  
 Position District Engineer  
 Company Southland Royalty Company  
 Date September 22, 1978

*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

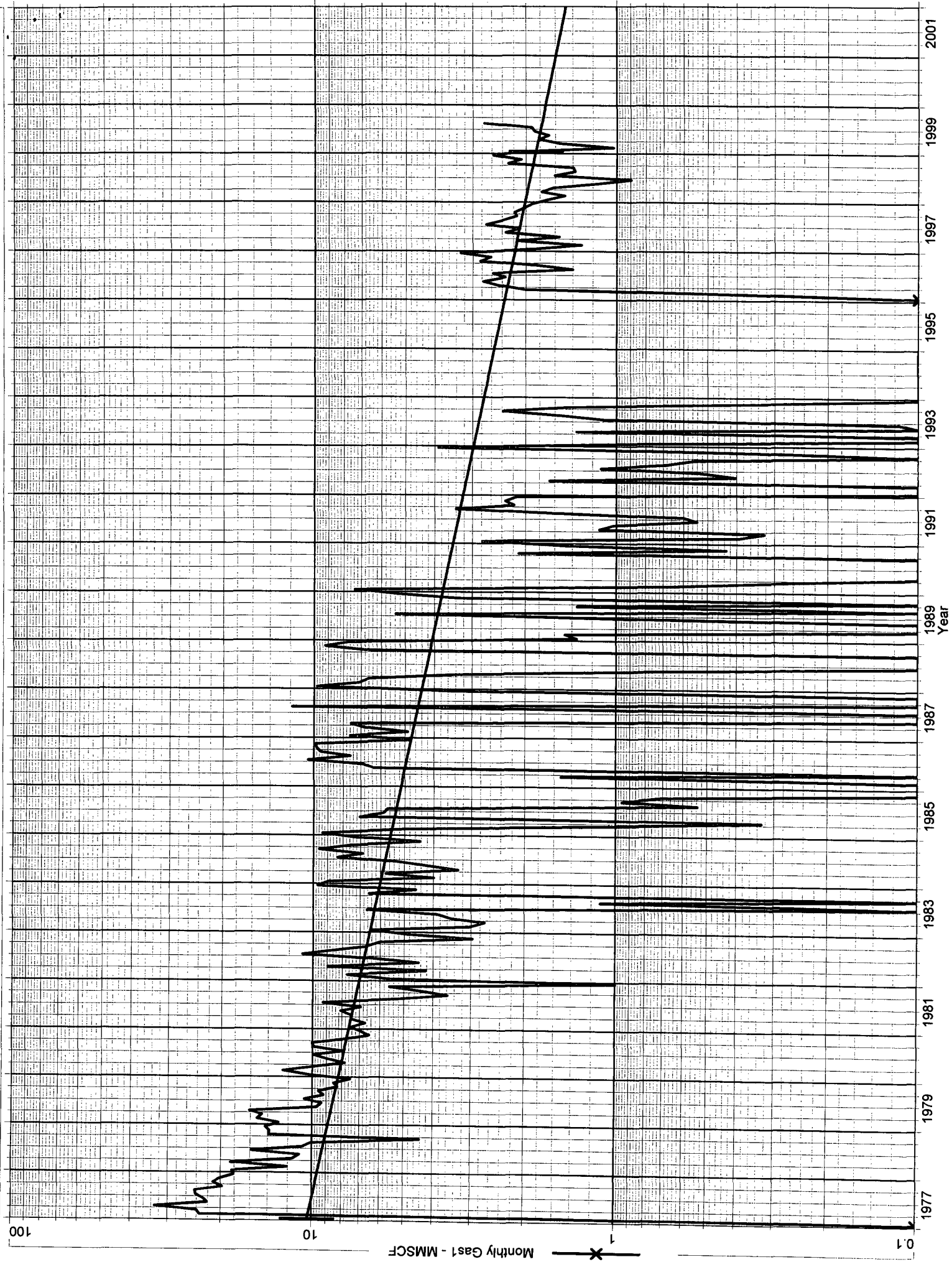
Certificate No. \_\_\_\_\_



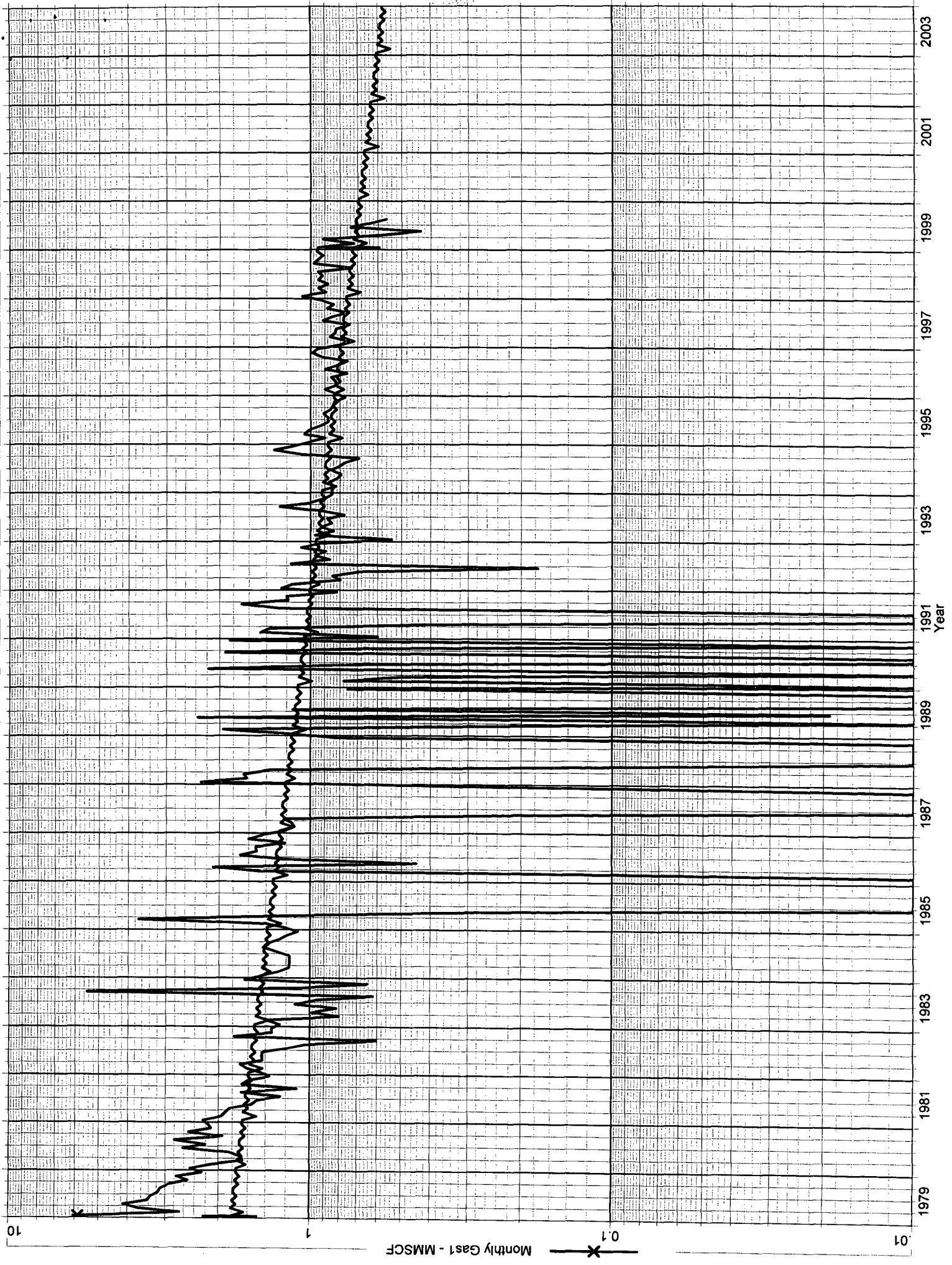
		year	month	day	wh psi	cum prod	
MV	LAWSON 1A/4217601	1976		9	9	785	original
	LAWSON 1A	1977		3	25	660	
	LAWSON 1A	1978		7	17	542	
	LAWSON 1A	1979		5	16	528	
	LAWSON 1A	1980		8	24	468	
	LAWSON 1A	1982		4	24	411	
	LAWSON 1A	1984		7	11	482	
	LAWSON 1A	1986		6	11	452	
	LAWSON 1A	1989		10	26	414	
	LAWSON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

<b>Pictured Cliffs</b>		<b>Mesaverde</b>	
<b><u>PC-Current</u></b>		<b><u>MV-Current</u></b>	
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>
<b><u>PC-Original</u></b>		<b><u>MV-Original</u></b>	
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>



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



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

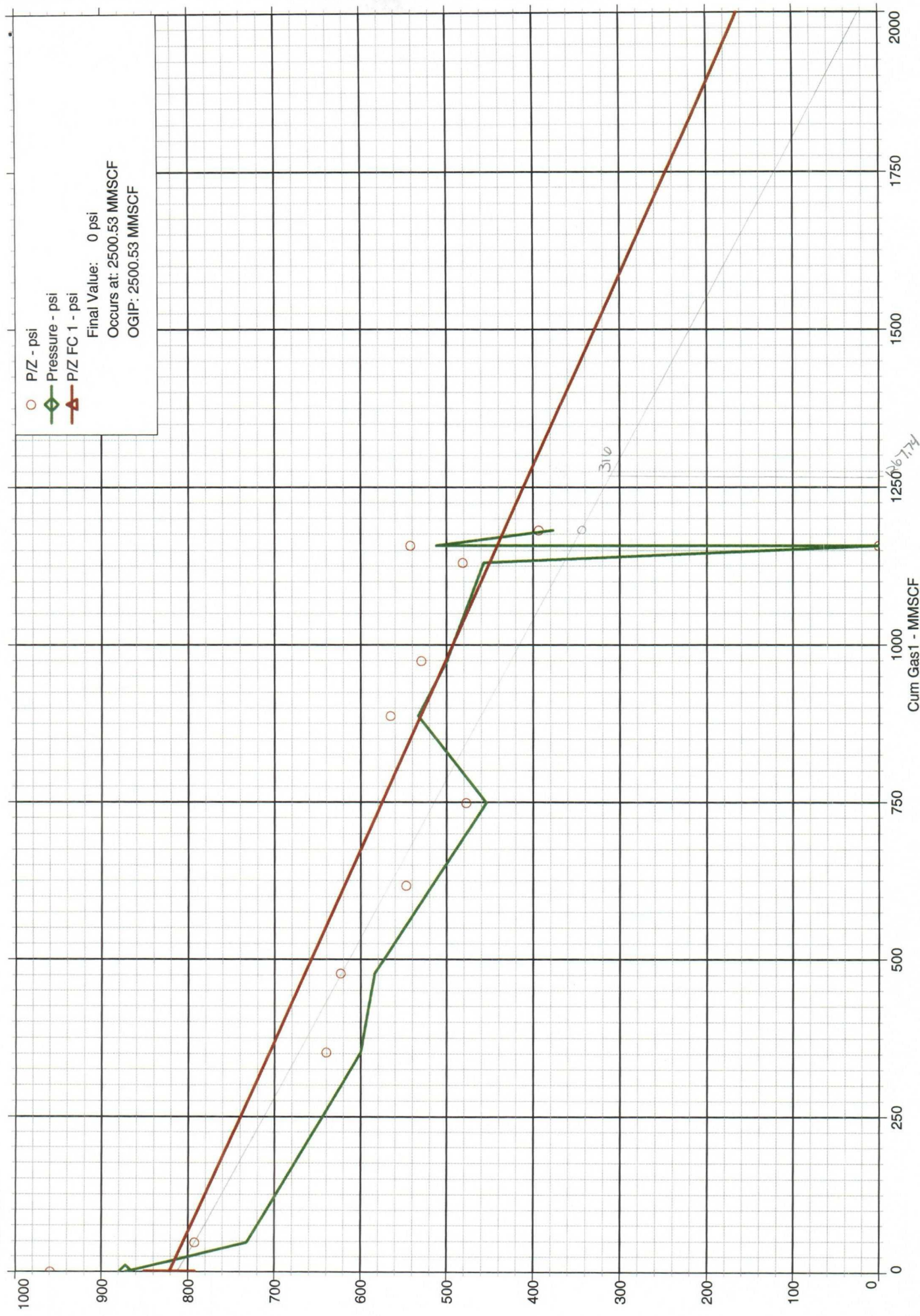
Operator: BURLINGTON RESOURCES OG

Field: BLANCO MESAVERDE (PRORATED GAS)

Zone:

Type: Gas

Group: None



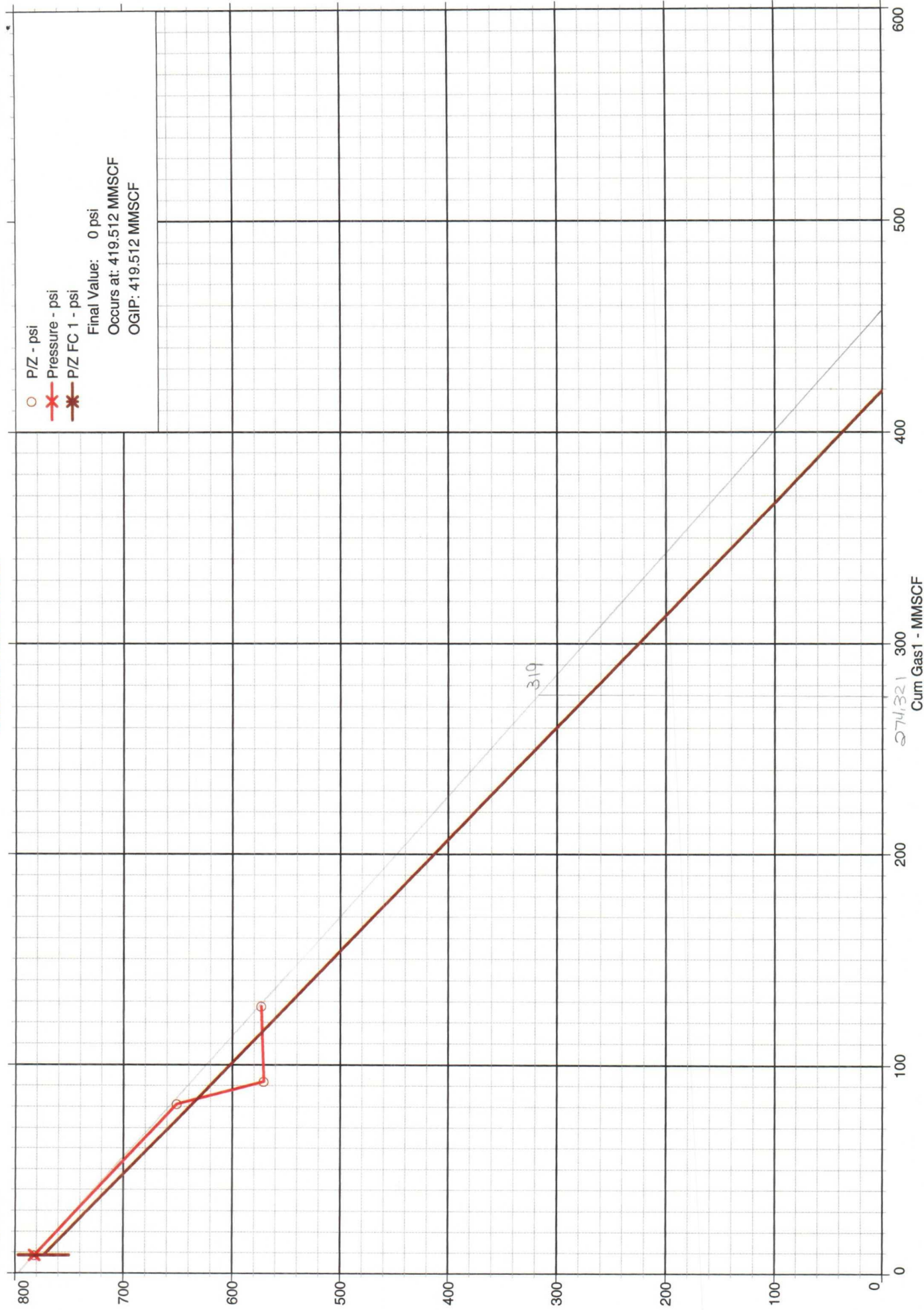
286427995719.344 LAWSON 1A (286427995719.344) Data: Jan.1979-Jun.1999

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