

DATE 3/21/01	SUBMITTER 4/10/01	ENGINEER DC	LOGGED IN KN	TYPE DHC	APP NO. 108250277
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



2901

ADMINISTRATIVE APPLICATION COVERSHEET

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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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]

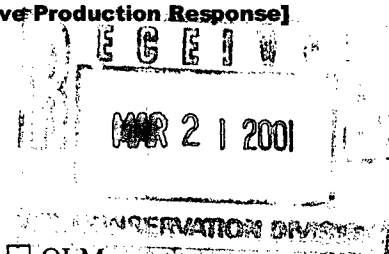
[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ 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 reviewed the 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.

Peggy Cole

Print or Type Name

Signature

Peggy Cole

Regulatory Supervisor

Title

Date

pbradfield@br-inc.com
 e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE

Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas Company P.O.Box 4289 Farmington, New Mexico 87499
Operator Address

Lackey A IR A Sec 12, T29N, R10W San Juan
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 14538 Property Code 7238 API No. 30-045-23707 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Aztec Pictured Cliffs		Blanco Mesaverde
Pool Code	71280		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2177'-2240'		3814'-4857'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	248		340
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1188		1215
Producing, Shut-In or New Zone	Producing		Shut-In
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: 2/28/01 Rates: 16 MCFD, 0 BOD, 0 BWD	Date: Rates:	Date: 6/30/00 Rates: 2 MCFD, 0 BOD, 0 BWD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	To Be Filed After Commingled	Oil Gas	To Be Filed After Commingled

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No

Are all produced fluids from all commingled zones compatible with each other? Yes X No

Will commingling decrease the value of production? Yes No X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes X No

NMOCD Reference Case No. applicable to this well:

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.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.

Bottomhole pressure data.

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

SIGNATURE TITLE Operations Engineer DATE 3-21-1

nco TYPE OR PRINT NAME Joe Michetti TELEPHONE NO. (505) 326-9700

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

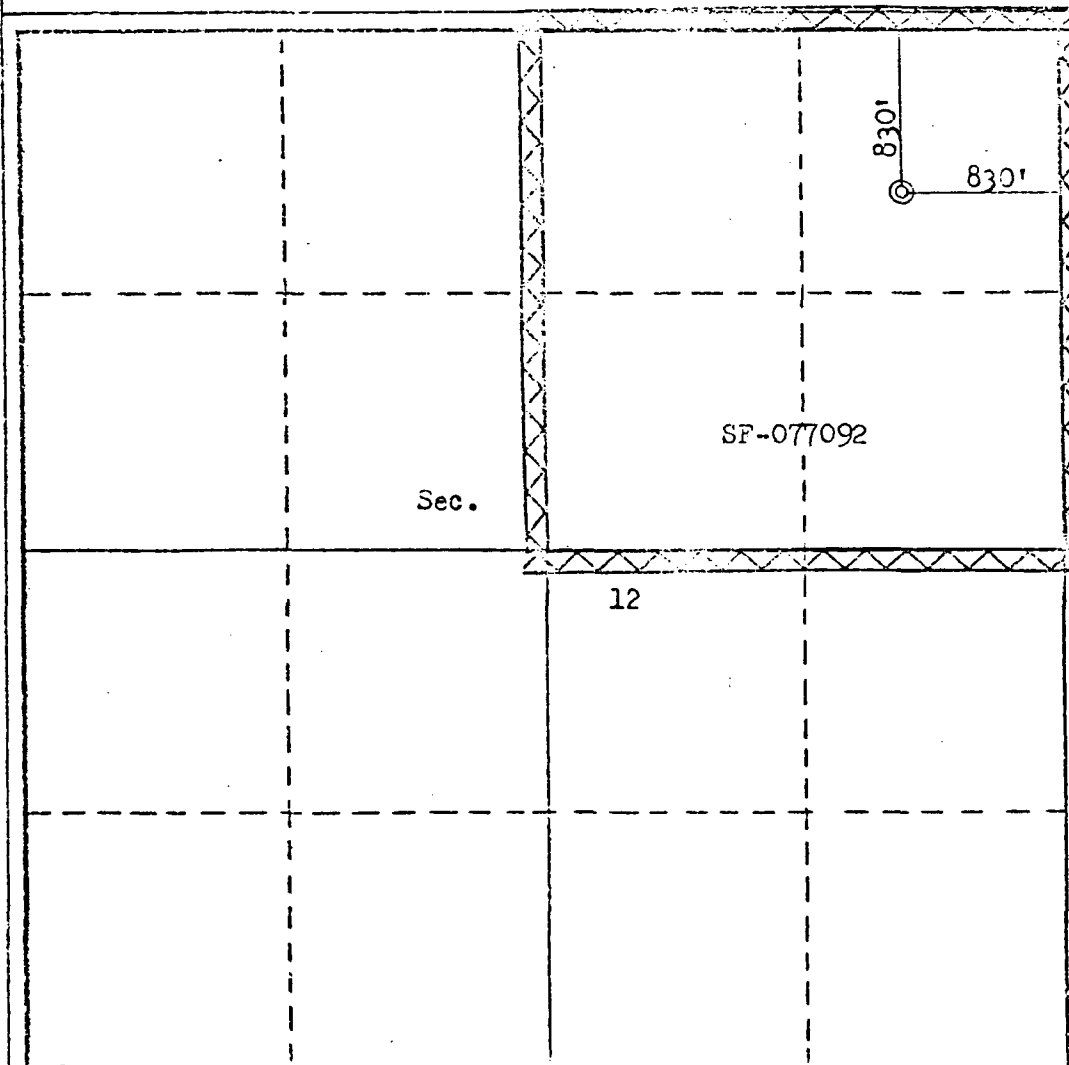
Operator EL PASO NATURAL GAS COMPANY			Lease LOCKEY "A" (SF-077092)		Well No. 18
Well Letter A	Section 12	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well:					
830 feet from the North		line and 830 feet from the East		line	
Ground Level Elev. 5663	Producing Formation PICTURED CLIFFS		Pool AZTEC PICTURED CLIFFS	Dedicated Acreage: 156.18 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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

Drilling Clerk

Position

El Paso Natural Gas Co.

Company

July 25, 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

July 6, 1979

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.

Certificate No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

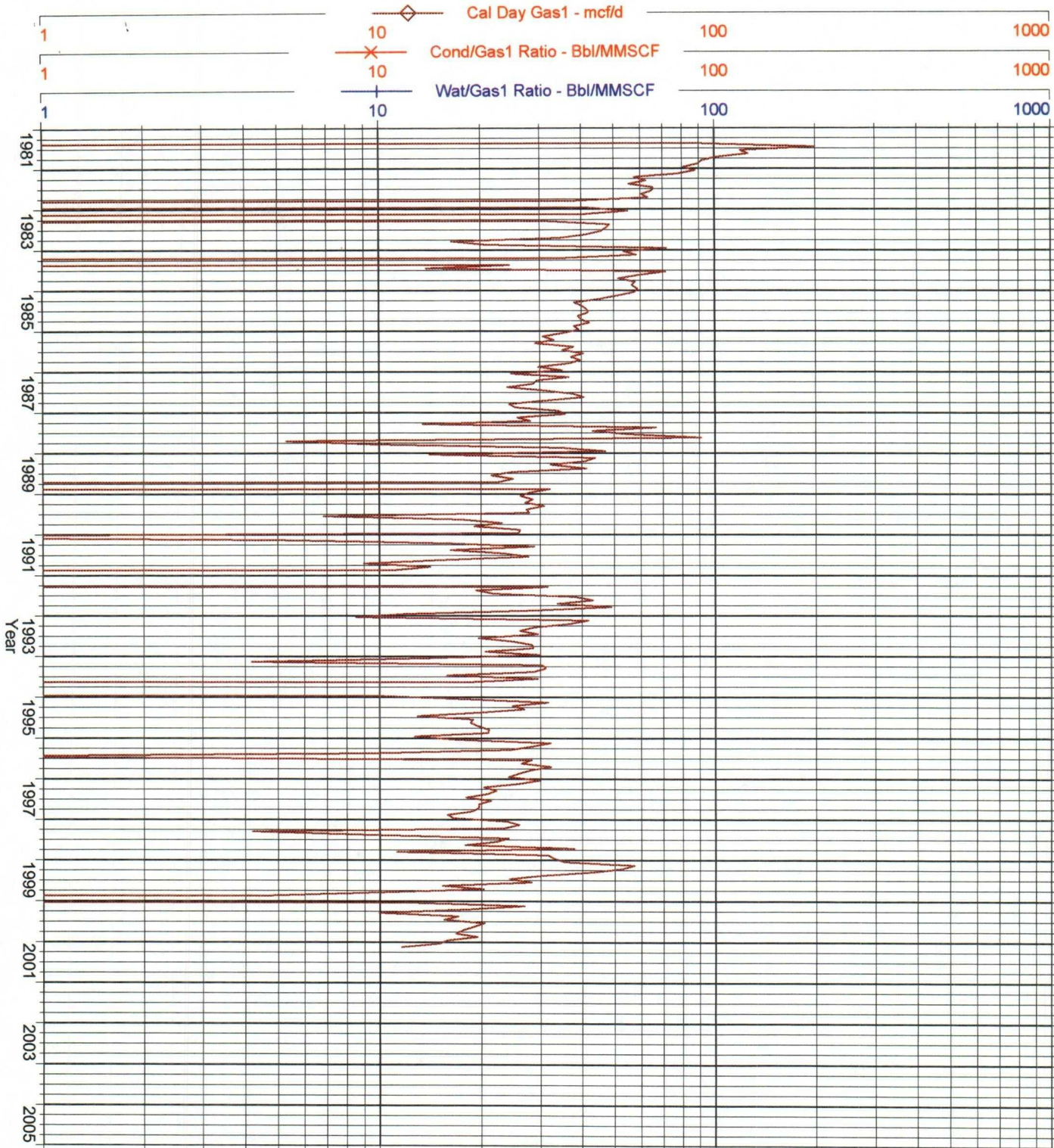
LACKEY A 1R 5313101 (286351227555.279) Data: Jan.1981-Feb.2001

Operator: BURLINGTON RESOURCES OIL GAS CO LP
Field: AZTEC PICTURED CLIFFS (GAS)
Zone:
Type: Gas
Group: None

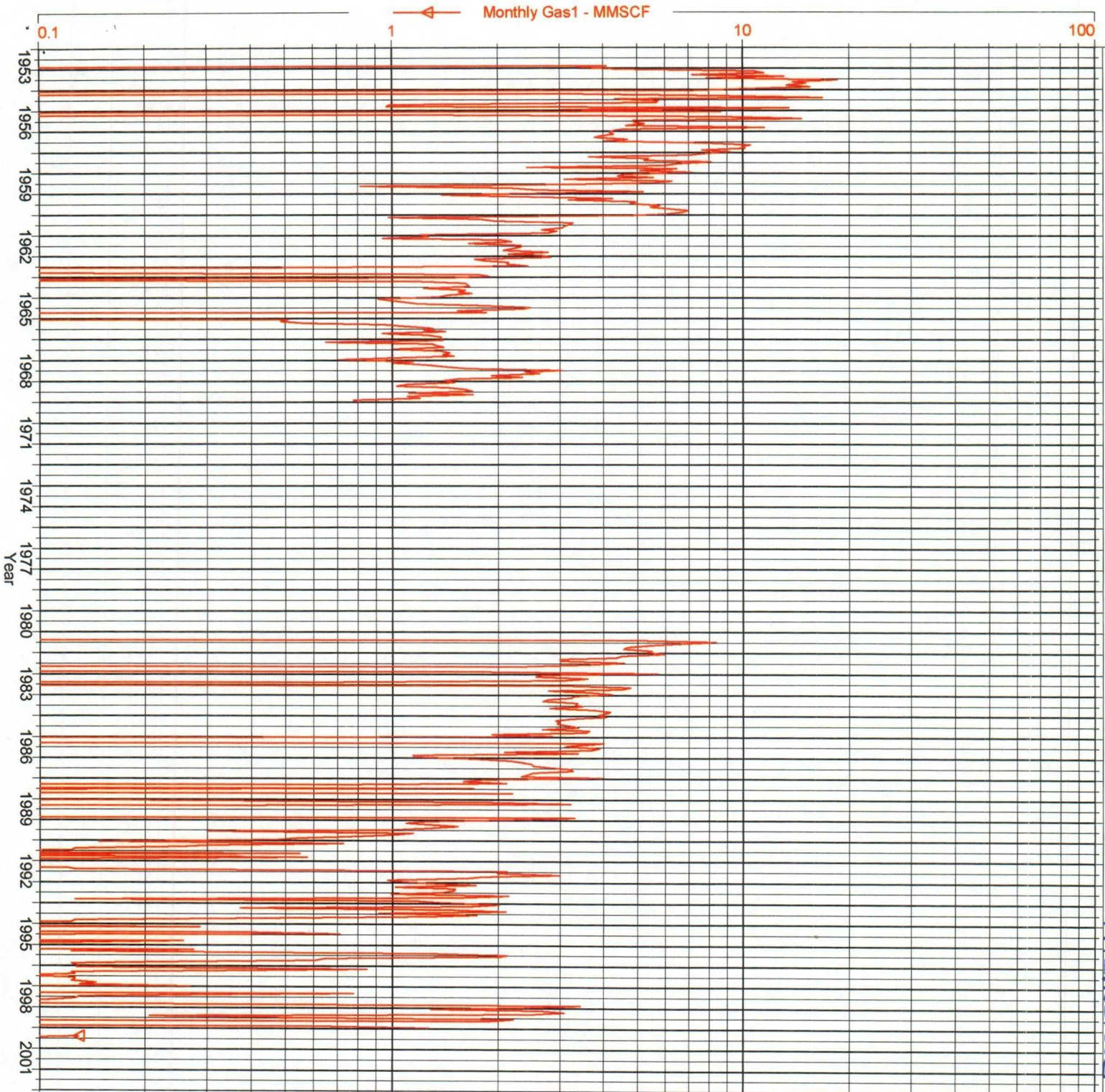
No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 227.521 MMSCF
Water: 0 MSTB
Cond: 0 MSTB

Cal Day Gas1 - mcf/d
Cum: 227.521 MMSCF
Cond/Gas1 Ratio - Bbl/MMSCF
Cum: 0 MSTB
Wat/Gas1 Ratio - Bbl/MMSCF
Cum: 0 MSTB



Measurements



Cumulative Monthly Well Report

September 1996 Through March 2001

Select By : Completions

Page No : 1
Report Number : R_290
Print Date : 3/19/2001, 7:40:50 AM

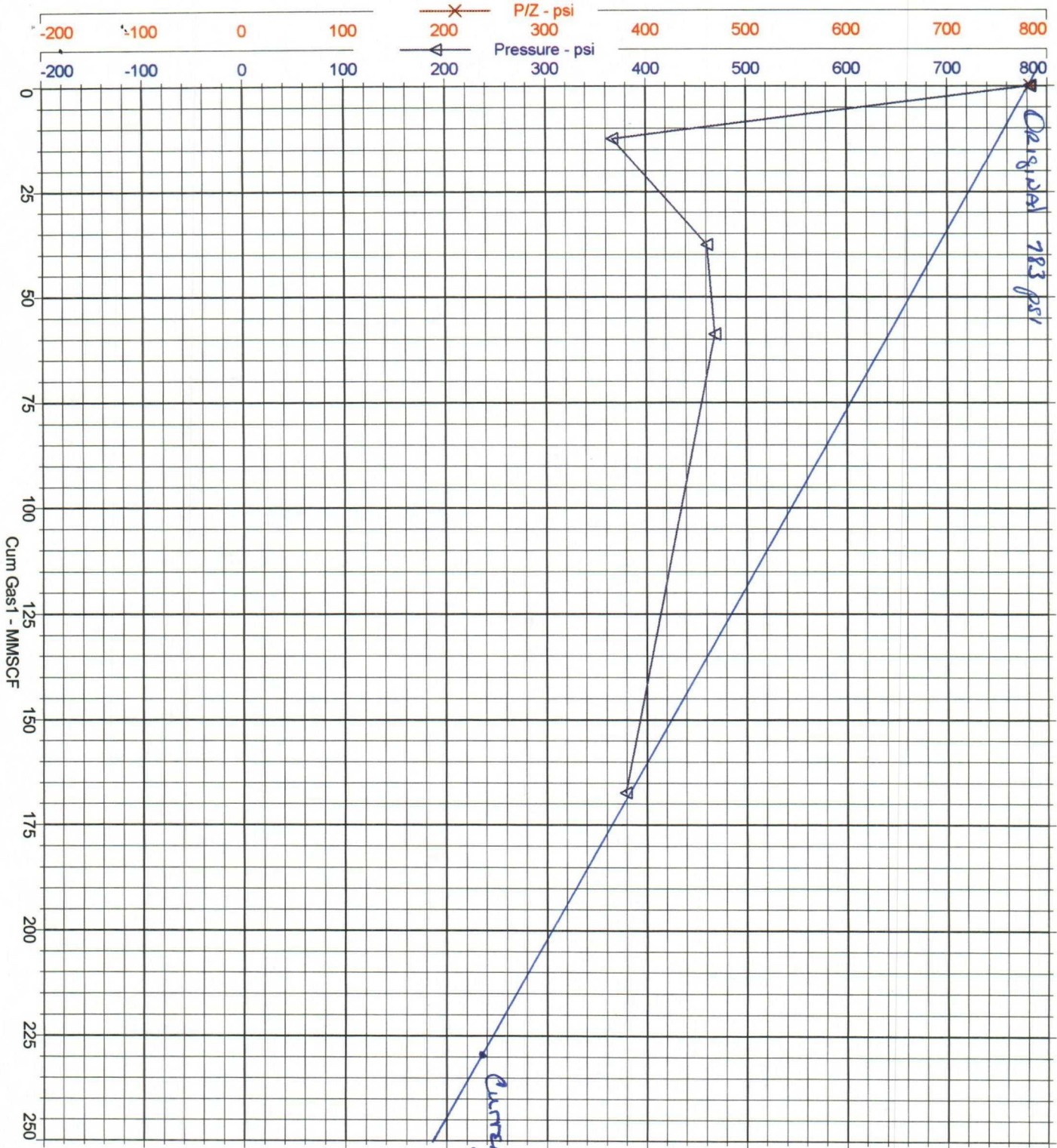
Completion	Date	Oil		Gas		Water	
		Current	Cumulative	Current	Cumulative	Current	Cumulative
LACKEY A 1R MV	11/30/1998	4.67	4.67	3,428.26	3,428.26	0.00	0.00
	12/31/1998	24.79	29.45	2,584.78	6,013.04	0.00	0.00
	1/31/1999	26.24	55.70	1,282.36	7,295.40	0.00	0.00
	2/28/1999	14.54	70.23	2,640.92	9,936.32	8.50	8.50
	3/31/1999	15.94	86.17	3,089.67	13,025.99	0.00	8.50
	4/30/1999	0.88	87.05	2,480.62	15,506.61	0.00	8.50
	5/31/1999	7.57	94.62	205.36	15,711.97	2.35	10.84
	6/30/1999	2.33	96.95	383.94	16,095.91	0.00	10.84
	7/31/1999	0.32	97.26	2,211.33	18,307.24	3.52	14.36
	8/31/1999	0.00	97.26	1,861.17	20,168.41	0.00	14.36
	9/30/1999	0.00	97.26	0.00	20,168.41	0.00	14.36
	10/31/1999	0.00	97.26	0.00	20,168.41	0.00	14.36
	11/30/1999	0.00	97.26	611.99	20,780.40	0.00	14.36
	12/31/1999	0.00	97.26	1,268.30	22,048.70	0.00	14.36
	1/31/2000	0.00	97.26	0.00	22,048.70	0.00	14.36
	2/29/2000	0.00	97.26	0.00	22,048.70	0.00	14.36
	3/31/2000	0.00	97.26	0.00	22,048.70	0.00	14.36
	4/30/2000	0.00	97.26	0.00	22,048.70	0.00	14.36
	5/31/2000	0.00	97.26	128.96	22,177.66	0.00	14.36
	6/30/2000	0.00	97.26	74.88	22,252.54	0.00	14.36
	7/31/2000	0.00	97.26	0.00	22,252.54	0.00	14.36
	8/31/2000	-0.29	96.97	0.00	22,252.54	0.00	14.36
	9/30/2000	0.00	96.97	0.00	22,252.54	0.00	14.36
LACKEY A 1R PC	10/31/2000	0.00	96.97	0.00	22,252.54	0.00	14.36
	11/30/2000	0.00	96.97	0.00	22,252.54	0.00	14.36
	12/31/2000	0.00	96.97	0.00	22,252.54	0.00	14.36
	1/31/2001	0.00	96.97	0.00	22,252.54	0.00	14.36
	2/28/2001	0.00	96.97	0.00	22,252.54	0.00	14.36
	3/31/2001	0.00	96.97	0.00	22,252.54	0.00	14.36
	11/30/1998	0.00	0.00	948.03	948.03	0.00	0.00
	12/31/1998	0.00	0.00	1,021.54	1,969.57	0.00	0.00
	1/31/1999	0.00	0.00	1,097.98	3,067.55	0.00	0.00
	2/28/1999	0.00	0.00	1,605.81	4,673.36	0.00	0.00
	3/31/1999	0.00	0.00	1,636.44	6,309.80	0.00	0.00
	4/30/1999	0.00	0.00	1,287.94	7,597.74	0.00	0.00
	5/31/1999	0.00	0.00	946.79	8,544.53	0.00	0.00
	6/30/1999	0.00	0.00	724.96	9,269.49	0.00	0.00
	7/31/1999	0.00	0.00	874.70	10,144.19	0.00	0.00
	8/31/1999	0.00	0.00	473.01	10,617.20	0.00	0.00
	9/30/1999	0.00	0.00	608.81	11,226.01	0.00	0.00
	10/31/1999	0.00	0.00	302.93	11,528.94	0.00	0.00
	11/30/1999	0.00	0.00	137.25	11,666.19	0.00	0.00
	12/31/1999	0.00	0.00	0.00	11,666.19	0.00	0.00
	1/31/2000	0.00	0.00	381.36	12,047.55	0.00	0.00
	2/29/2000	0.00	0.00	779.39	12,826.94	0.00	0.00
	3/31/2000	0.00	0.00	558.81	13,385.75	0.00	0.00
	4/30/2000	0.00	0.00	298.03	13,683.78	0.00	0.00
	5/31/2000	0.00	0.00	528.42	14,212.20	0.00	0.00
	6/30/2000	0.00	0.00	463.71	14,675.91	0.00	0.00
	7/31/2000	0.00	0.00	631.36	15,307.27	0.00	0.00
	8/31/2000	0.00	0.00	590.18	15,897.45	0.00	0.00
	9/30/2000	0.00	0.00	528.42	16,425.87	0.00	0.00
	10/31/2000	0.00	0.00	519.59	16,945.46	0.00	0.00
	11/30/2000	0.00	0.00	583.32	17,528.78	0.00	0.00
	12/31/2000	0.00	0.00	488.22	18,017.00	0.00	0.00
	1/31/2001	0.00	0.00	463.71	18,480.71	0.00	0.00
	2/28/2001	0.00	0.00	323.52	18,804.23	0.00	0.00
	3/31/2001	0.00	0.00	0.00	18,804.23	0.00	0.00

Operator: BURLINGTON RESOURCES OIL GAS CO LP
 Field: AZTEC PICTURED CLIFFS (GAS)
 Zone:
 Type: Gas
 Group: None

No
 Active
 Forecast

Production Cums
 Oil: 0 MSTB
 Gas: 227.521 MMSCF
 Water: 0 MSTB
 Cond: 0 MSTB

* P/Z - psi Cum: 0
 -∇- Pressure - psi Cum: 0

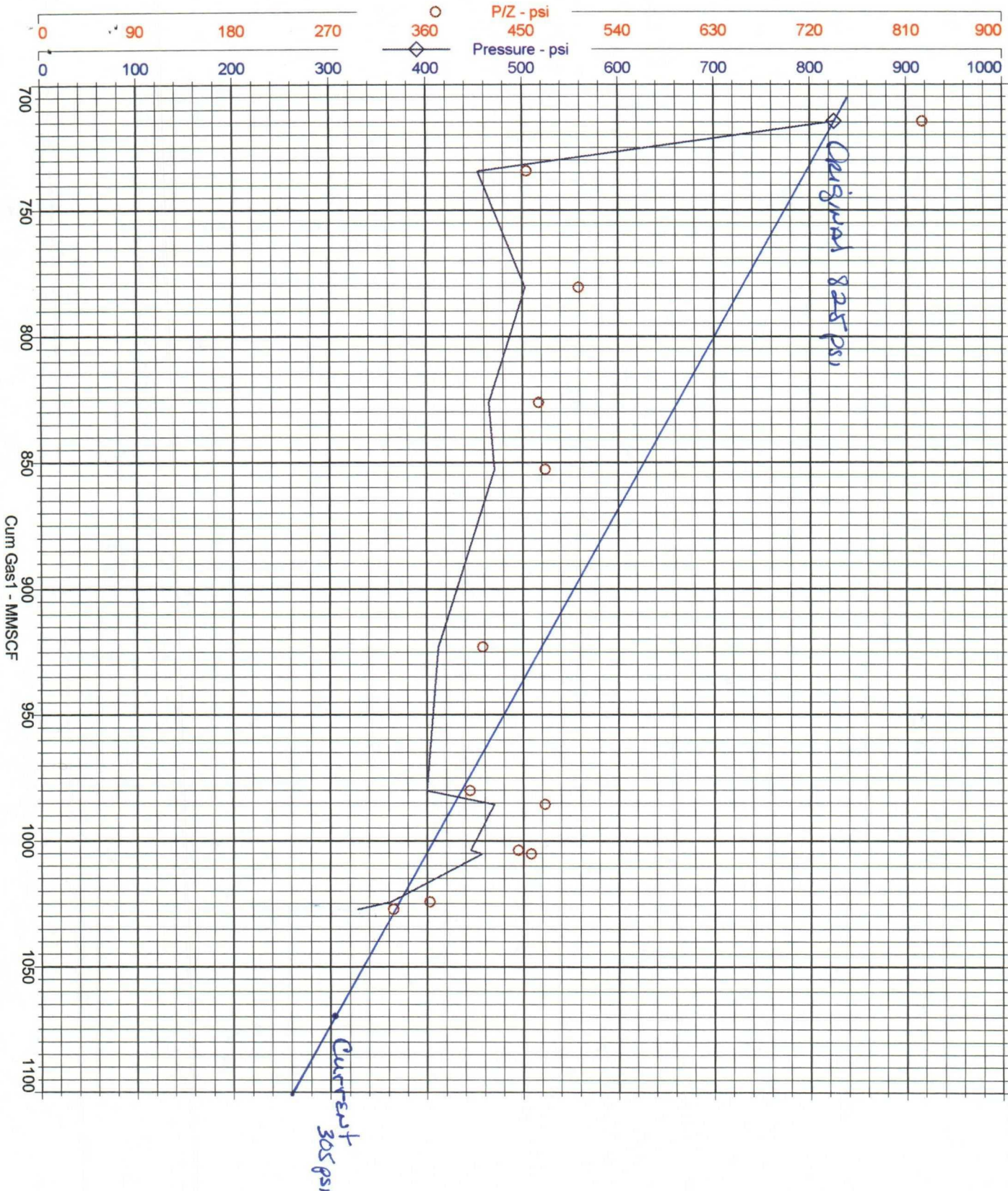


Operator: BURLINGTON RESOURCES OIL GAS CO LP
 Field: BLANCO MESEVERDE (PRORATED GAS)
 Zone:
 Type: Gas
 Group: None

No
 Active
 Forecast

Production Cums
 Oil: 0 MSTB
 Gas: 1082.29 MMSCF
 Water: 0.853361 MSTB
 Cond: 2.84526 MSTB

○ P/Z - psi
 Cum: 0
 —◇— Pressure - psi
 Cum: 0



Lackey A 1R
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	0.66	GAS GRAVITY	0.71
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.17	%N2	0.26
%CO2	0.3	%CO2	0.79
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	4.052
DEPTH (FT)	2209	DEPTH (FT)	4336
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	85	BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	235	SURFACE PRESSURE (PSIA)	305
BOTTOMHOLE PRESSURE (PSIA)	248.0	BOTTOMHOLE PRESSURE (PSIA)	340.2
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.66	GAS GRAVITY	0.71
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.17	%N2	0.26
%CO2	0.3	%CO2	0.79
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	4.052
DEPTH (FT)	2209	DEPTH (FT)	4336
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	85	BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	783	SURFACE PRESSURE (PSIA)	825
BOTTOMHOLE PRESSURE (PSIA)	831.3	BOTTOMHOLE PRESSURE (PSIA)	931.2