

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 PO Box 4289, Farmington, NM 87499

Operator **Decker** Address **O-10-32N-12W** County **San Juan**
Lease Well No. Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 18512 API NO. 30-045-23332 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)	2509-2588		4216-5175
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) 331 psi (see attachment) (used Hillstrom #2 (PC offset well)) b. (Original) 1005 psi (see attachment)	a. b.	a. 668 psi (see attachment) b. 1010 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1143		BTU 1207
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no) * 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)	Yes Date: Rates: Date: 9/2/99 Rates: 0 mcf/d	 Date: Rates: Date: Rates:	Yes Date: Rates: Date: 9/2/99 Rates: 0 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: 10-12-99

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.

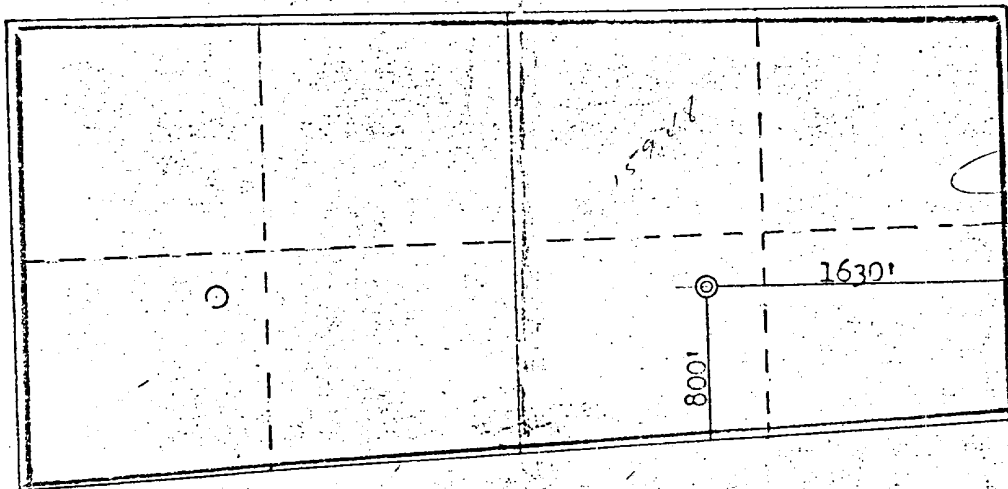
Operator SOUTHLAND ROYALTY COMPANY			Lease DECKER		Well No. LA
Unit Letter 0	Section 10	Township 32N	Range 12W	County San Juan	
Actual Footage Location of Well: 800 feet from the South line and 1630 feet from the East line					
Ground Level Elev: 6098	Producing Formation Mesa Verde	Pool Blanco		Dedicated Acreage: 326.68 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.



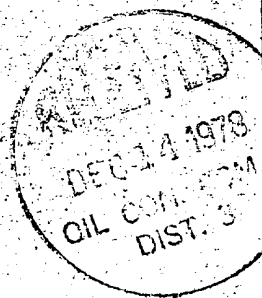
CERTIFICATION

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

Name *[Signature]*
Position
District Production Manager
Company
Southland Royalty Company
Date
December 4, 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.

SCALE: 1"=1000'



Date Surveyed November 10, 1978
Registered Professional Engineer and Land Surveyor
[Signature]
Fred B. Kerr Jr.
Certificate No. 3950

WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes L-728
Effective 1-1-65

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

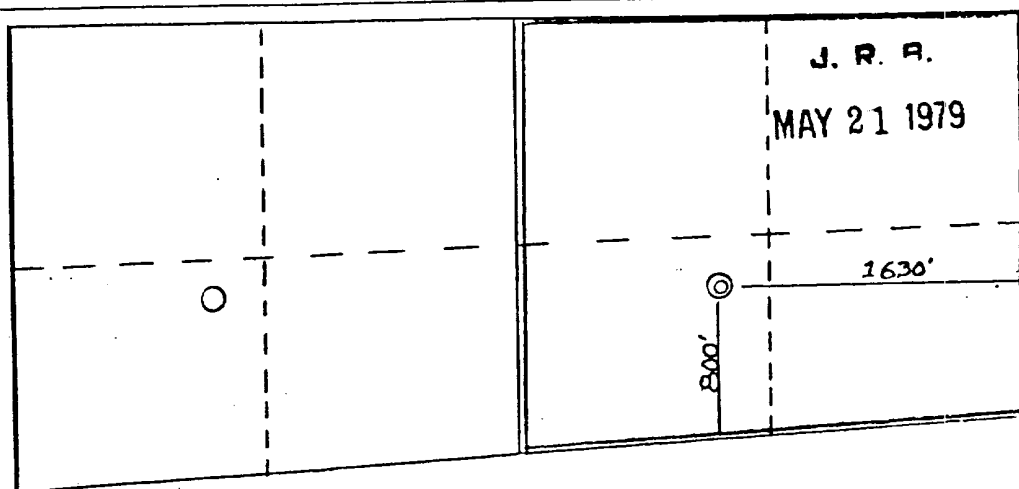
Operator Southland Royalty Company			Lease Decker		Well No. 4-A
Unit Letter 0	Section 10	Township 32N	Range 12W	County San Juan	
Actual Footage Location of Well: 800 feet from the South line and 1630 feet from the East line					
Ground Level Elev: 6098'	Producing Formation Pictured Cliffs		Pool Blanco	Dedicated Acreage: 159.48 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 _____
Position
District Production Manager
Company
Southland Royalty Company
Date
May 11, 1979

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. _____

RECEIVED

MAY 17 1979

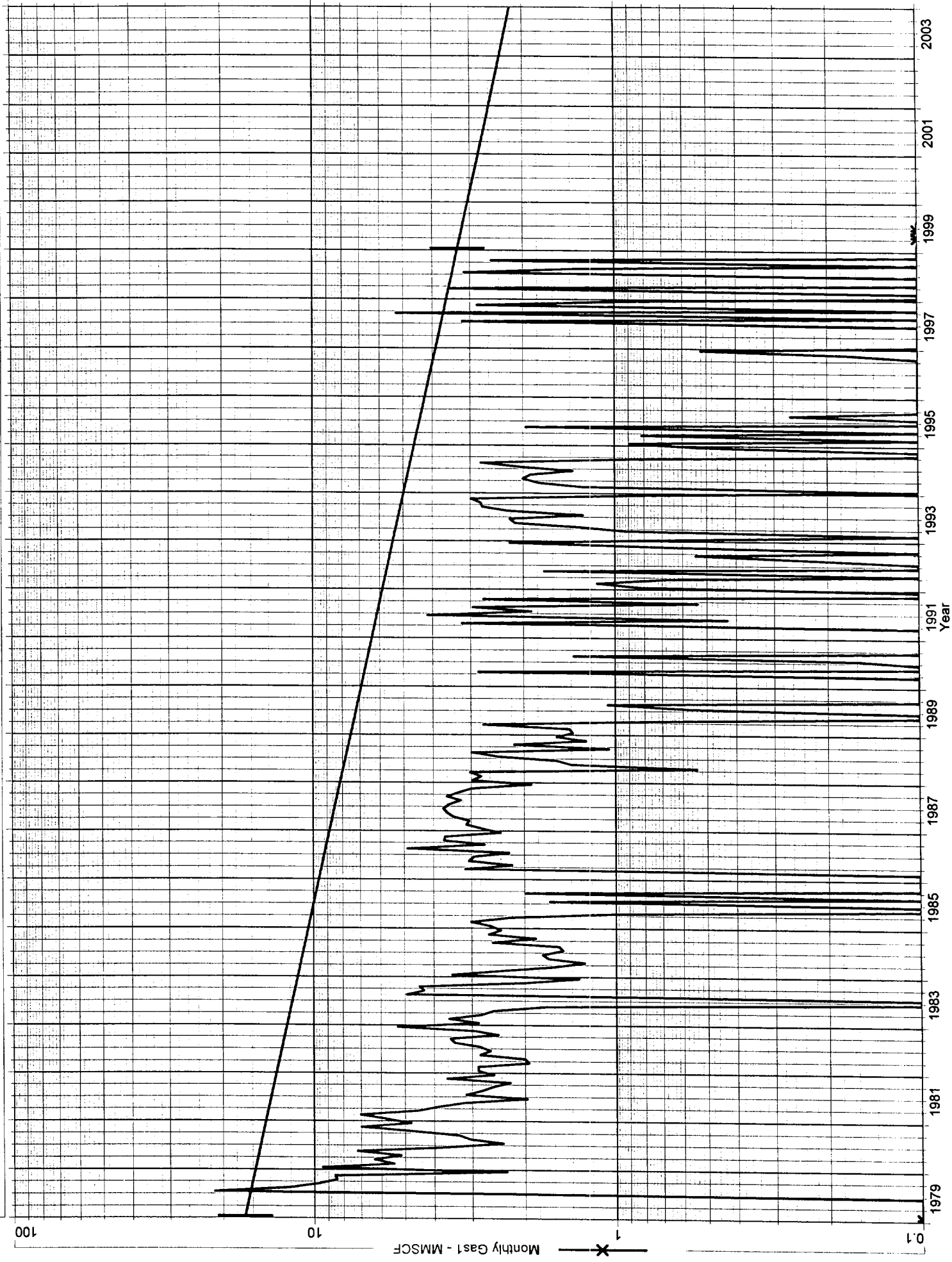
FARMINGTON DISTRICT

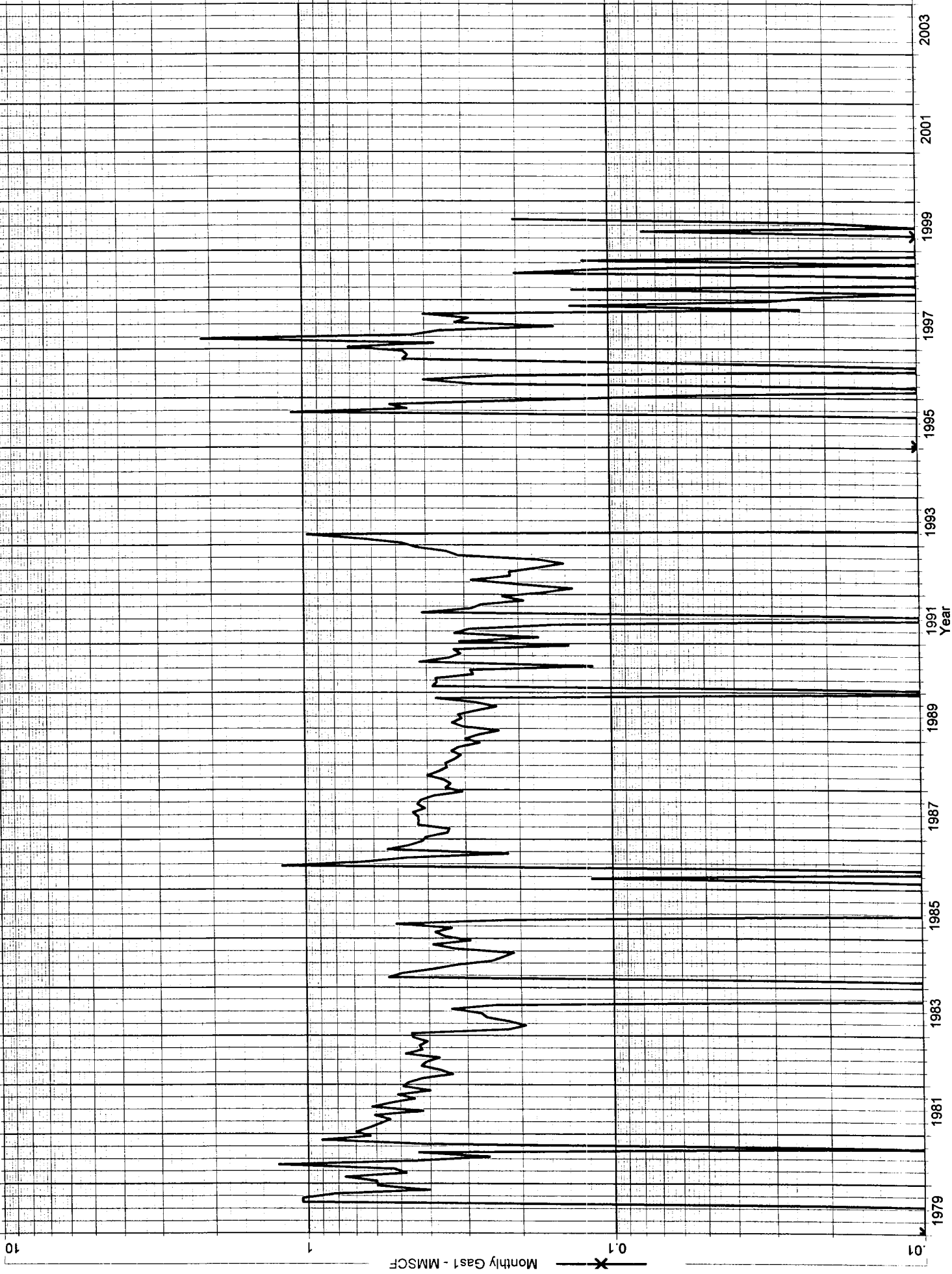
0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

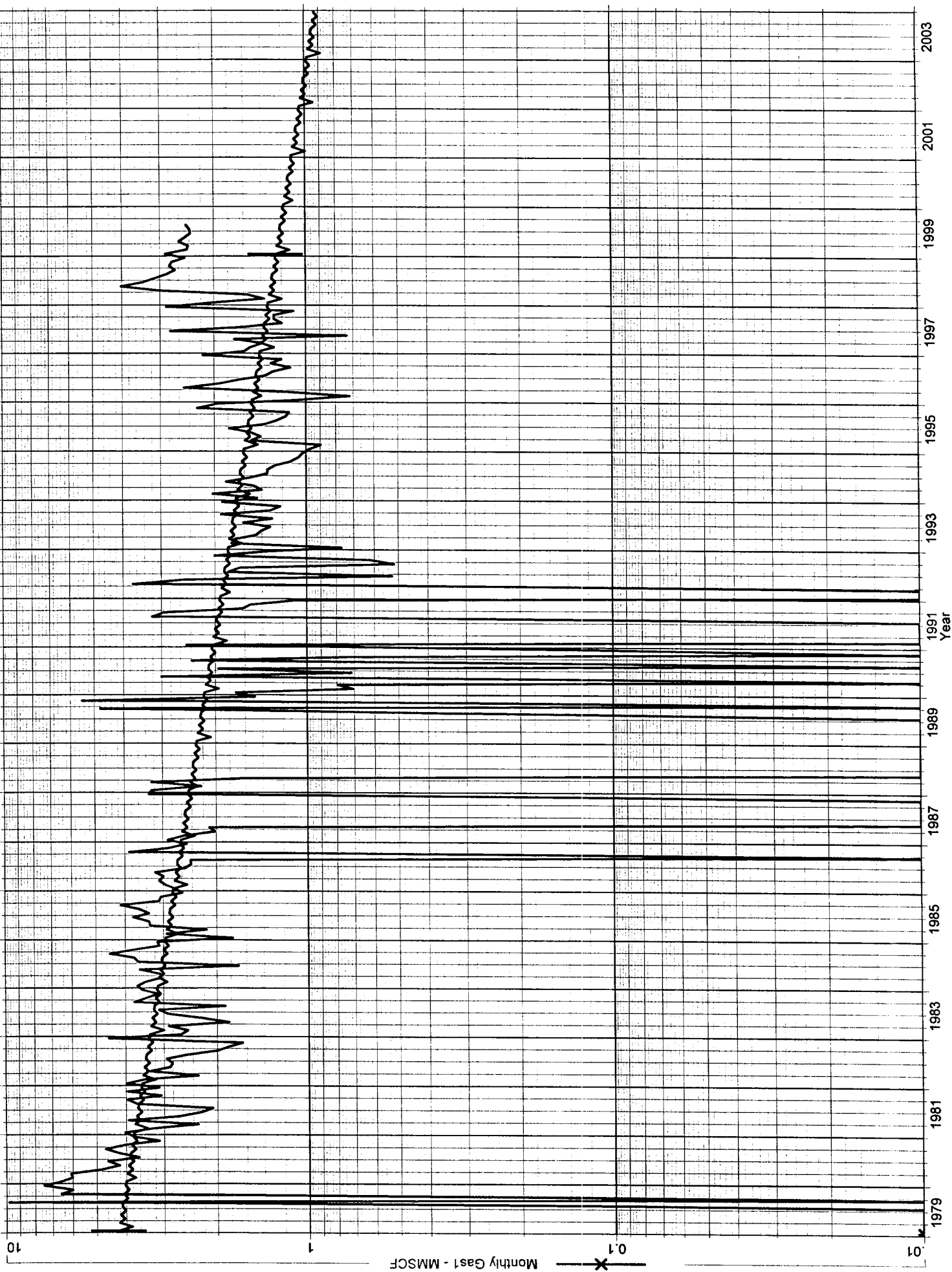
		year	month	day	wh psi	cum prod	
MV (PC NO INFO)	DECKER 4A/1214402MV/1214401PC	1979		4	29	877	original
	DECKER 4A	1979		5	31	701	
	DECKER 4A	1979		6	30	652	
	DECKER 4A	1979		7	31	448	
	DECKER 4A	1979		8	9	701	
	DECKER 4A	1979		8	31	458	
	DECKER 4A	1979		9	30	414	
	DECKER 4A	1980		6	24	652	
	DECKER 4A	1981		6	24	448	
	DECKER 4A	1982		4	1	458	
	DECKER 4A	1984		8	7	414	
	DECKER 4A	1986		7	15	525	
	DECKER 4A	1991		5	20	615	
	DECKER 4A	1991		7	24	627	
						580	462.682 current estimate from P/Z data
OFFSET DECKER 4A PC	HILLSTROM 2	1979		7	11	928	original
	HILLSTROM 2	1979		9	9	747	
	HILLSTROM 2	1981		4	7	640	
	HILLSTROM 2	1983		4	23	610	
						300	514.29 current estimate from P/Z data offset to Decker 4A PC

Decker #4A
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>0.649</u>	GAS GRAVITY	<u>0.695</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.55</u>	%N2	<u>0.21</u>
%CO2	<u>0.36</u>	%CO2	<u>0.92</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>2549</u>	DEPTH (FT)	<u>4696</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>109</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>312</u>	SURFACE PRESSURE (PSIA)	<u>592</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>331.3</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>667.9</u>
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	<u>0.649</u>	GAS GRAVITY	<u>0.695</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.55</u>	%N2	<u>0.21</u>
%CO2	<u>0.36</u>	%CO2	<u>0.92</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>2549</u>	DEPTH (FT)	<u>4696</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>109</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>940</u>	SURFACE PRESSURE (PSIA)	<u>889</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1005.1</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>1009.5</u>





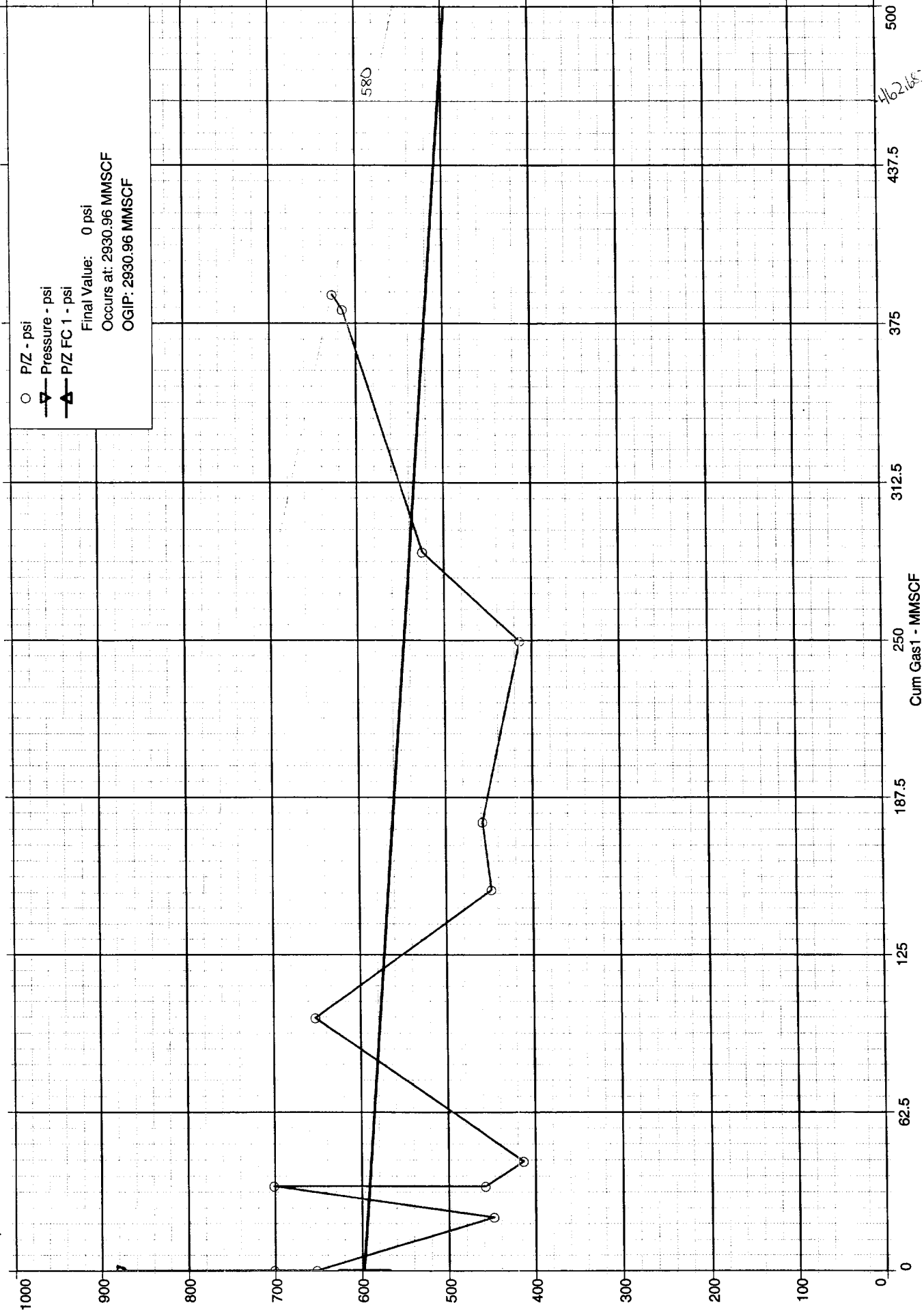


263411391598.26 DECKER 4A (263411391598.26) Data: Jan. 1979-Jun. 1999

Operator: BURLINGTON RESOURCES OG
Field: BLANCO MESAVERDE (PRORATED GAS)
Zone:
Type: Gas
Group: None

Production Cums
Oil: 0 MSTB
Gas: 462.682 MMSCF
Water: 2.798 MSTB
Cond: 1.4117 MSTB

P/Z FC 1 (P/Z Analysis)
Based On: P/Z
Vs: Cum Gas1
Final Value: 0 psi
Occurs at: 2930.96 MMSCF

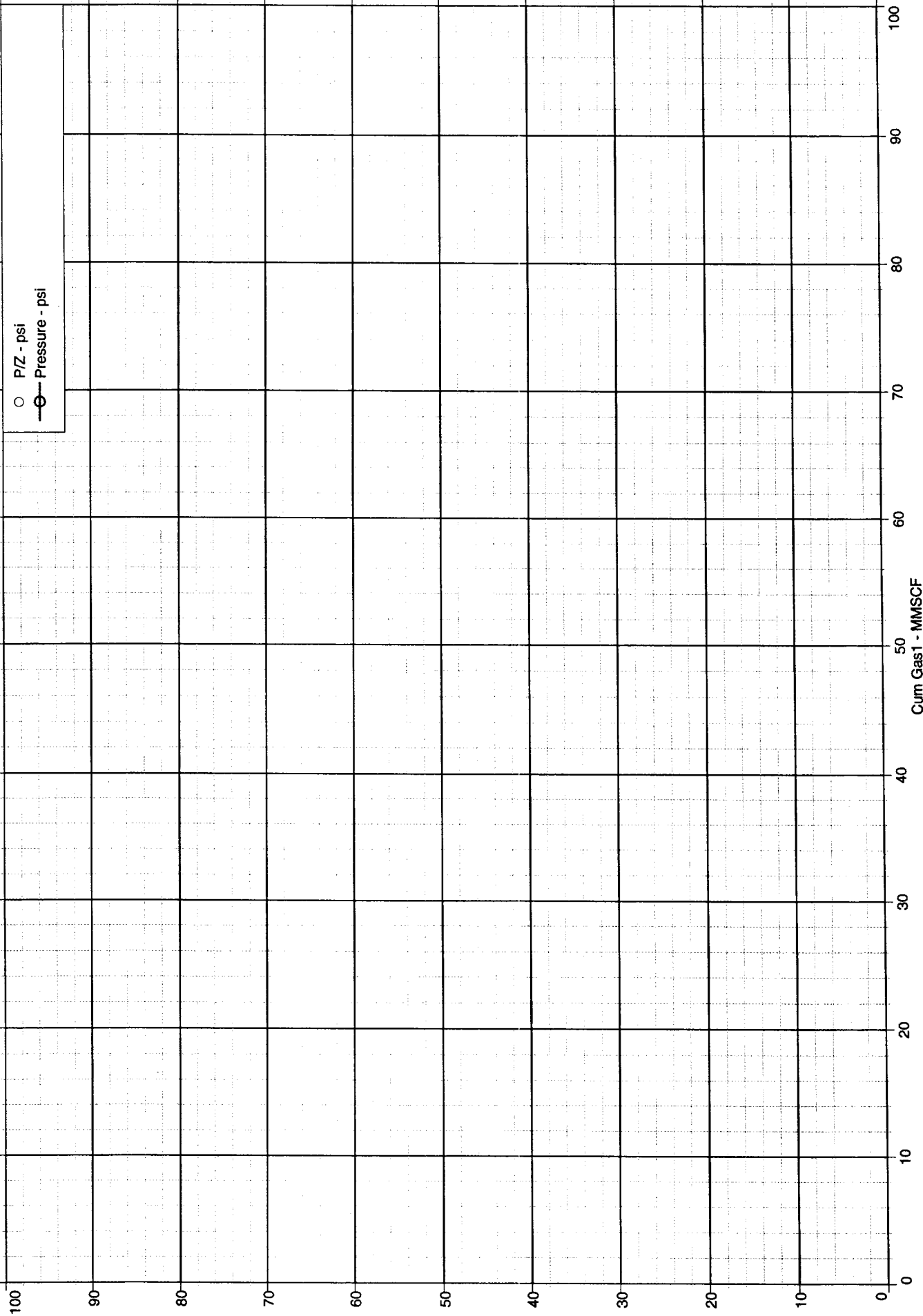


230184102494.762 DECKER 4A (230184102494.762) Data: Jan.1979-Jun.1999

Operator: BURLINGTON RESOURCES OG
Field: BLANCO PICTURED CLIFFS (GAS)
Zone:
Type: Gas
Group: None

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 67.1834 MMSCF
Water: 0.51 MSTB
Cond: 0 MSTB



284063586225.62 HILLSTROM 2 (284063586225.62) Data: Jan. 1979-Jul. 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: 543.053 MMSCF

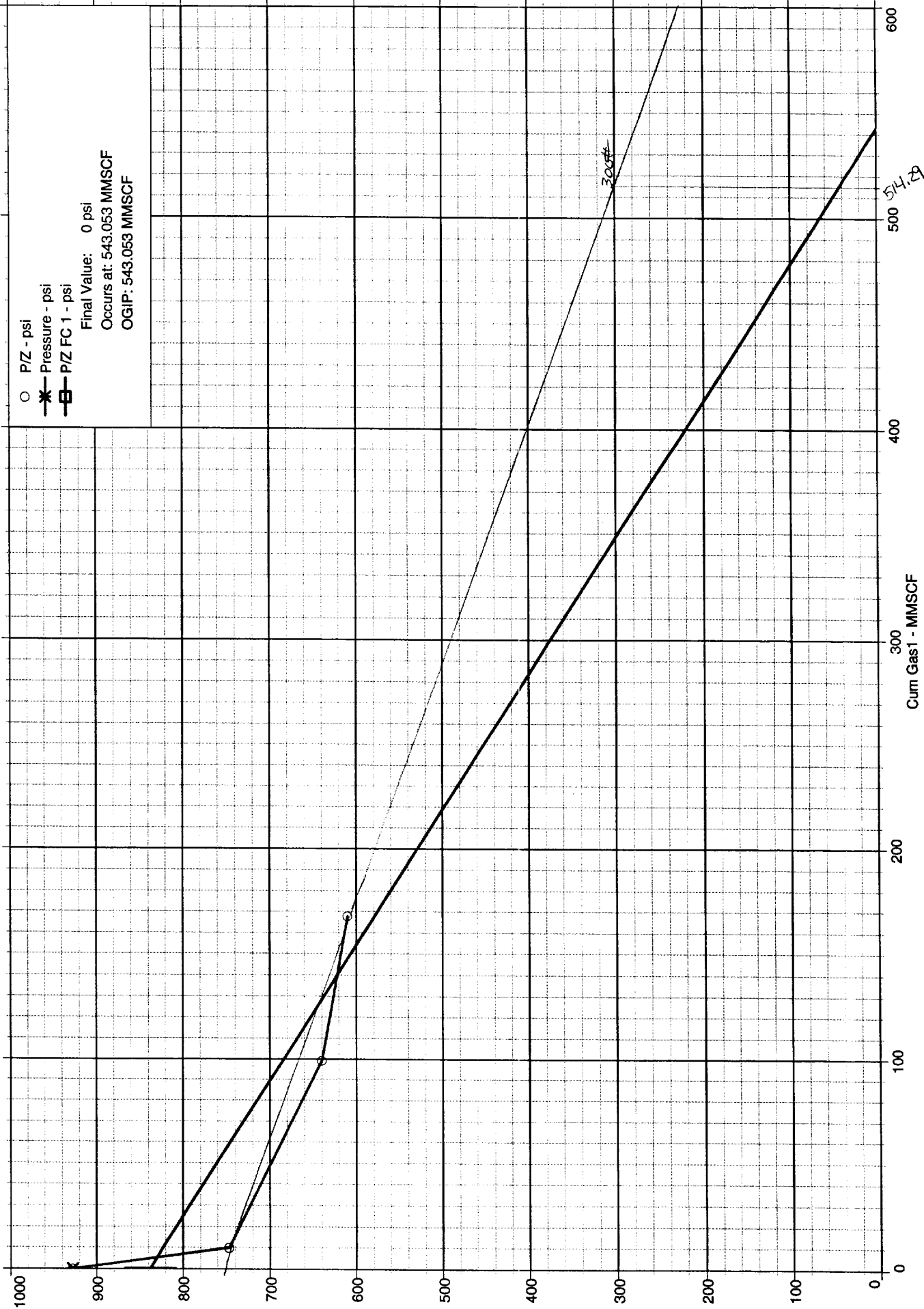
Production Curns

Oil: 0 MSTB

Gas: 514.29 MMSCF

Water: 0.169 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, 1:17:24 P

Sort By :

PROD MO.	TY	ST	PM	DAYS ON	OIL		GAS		WATER				
					PROD	SOL	PROD	SOLD	INJ	PROD	INJ	SUPP	
Well: DECKER 4A													
10/98	PG	P	FL	0	130.49	0.00	0	0	0	0	0.00	0.00	0.00
11/98	PG	P	FL	0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
12/98	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
10/98	PG	P	FL	0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
11/98	PG	P	FL	0	0.00	0.00	0	0	0	0	0.00	0.00	0.00
12/98	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Totals : 1998					130.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/99	PG	P	FL	31	0.00	0.00	2	0	0	0	0.00	0.00	0.00
02/99	PG	P	FL	28	6.68	0.00	0	0	0	0	0.00	0.00	0.00
03/99	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04/99	PG	P	FL	30	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05/99	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
06/99	PG	P	FL	30	0.00	0.00	0	0	0	0	0.00	0.00	0.00
07/99	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
08/99	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
01/99	PG	P	FL	31	0.00	0.00	1	0	0	0	0.00	0.00	0.00
02/99	PG	P	FL	28	0.00	0.00	1	0	0	0	0.00	0.00	0.00
03/99	PG	P	FL	31	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04/99	PG	P	FL	30	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05/99	PG	P	FL	31	0.00	0.00	77	0	0	0	0.00	0.00	0.00
06/99	PG	P	FL	30	0.00	0.00	3	0	0	0	0.00	0.00	0.00
07/99	PG	P	FL	31	0.00	0.00	20	0	0	0	0.00	0.00	0.00
08/99	PG	P	FL	31	0.00	0.00	204	0	0	0	0.00	0.00	0.00
Totals : 1999					6.68	0.00	307.84	0.00	0.00	0.00	0.00	0.00	0.00
Totals DECKER 4A					137.17	0.00	307.84	0.00	0.00	0.00	0.00	0.00	0.00