

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 **Bolack Tommy** Address **J-1-30N-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 18629 API NO. 30-045-25389 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 Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4586-4842		6036-6904
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) 287 psi (see attachment) b. (Original) 958 psi (see attachment)	a. RECEIVED OCT 18 1999 OIL CON. DIV. b.	a. 823 psi (see attachment) b. 2026 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1210		BTU 1104
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: 126 mcf/d	 Date: Rates: Date: Rates:	Yes Date: Rates: Date: 9/2/99 Rates: 67 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 10-08-99

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

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

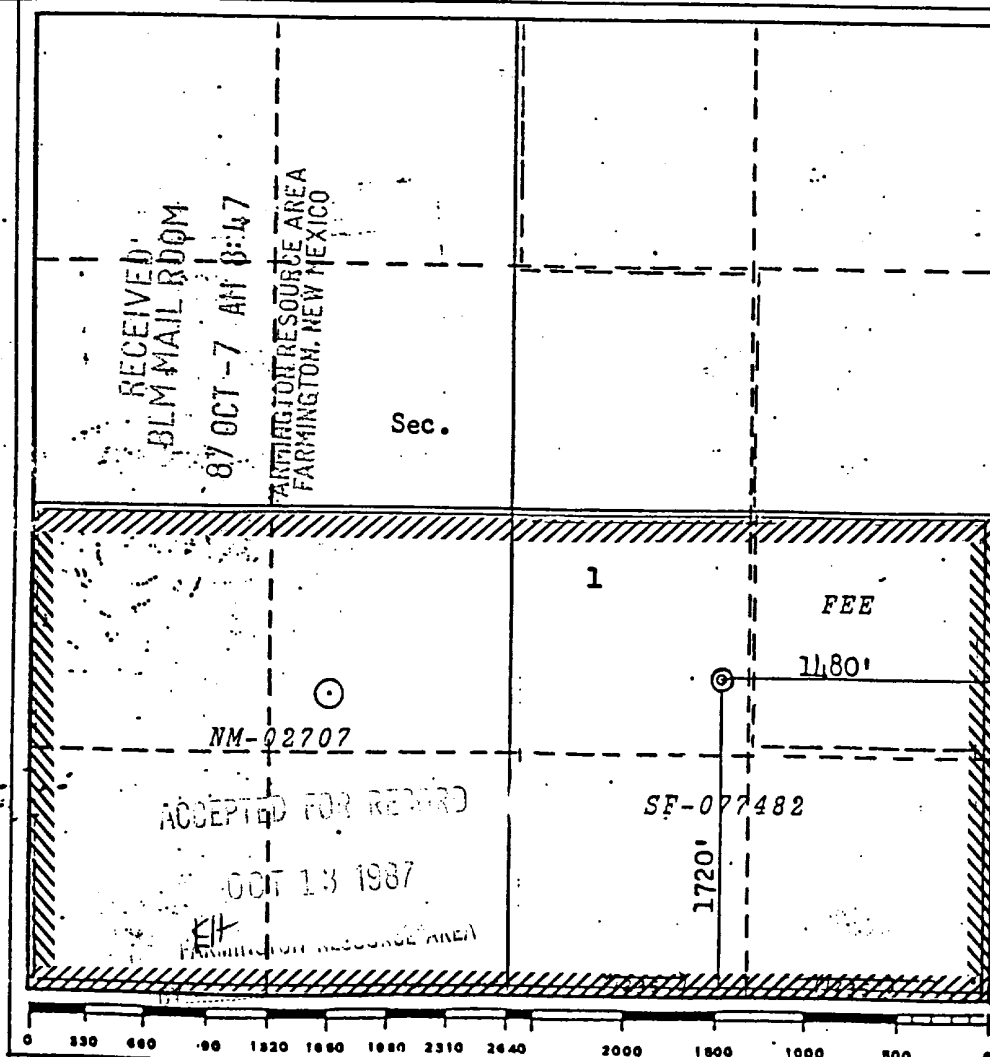
Operator SOUTHLAND ROYALTY COMPANY			Lease TOMMY BOLACK		Well No. 15M
Unit Letter J	Section 1	Township 30N	Range 12W	County San Juan	
Actual Footage Location of Well: 1720 feet from the South line and 1180 feet from the East line					
Ground Level Elev. 5826	Producing Formation Mesa Verde		Pool Blanco	Dedicated Acreage: 320 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 Communitization

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.

Peggy Dosh

Name

Position

Drilling Clerk

Company

Southland Royalty Company

Date

10-1-87

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

January 1988

Registered Professional Engineer and/or Land Surveyor

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

Certificate No.

3950

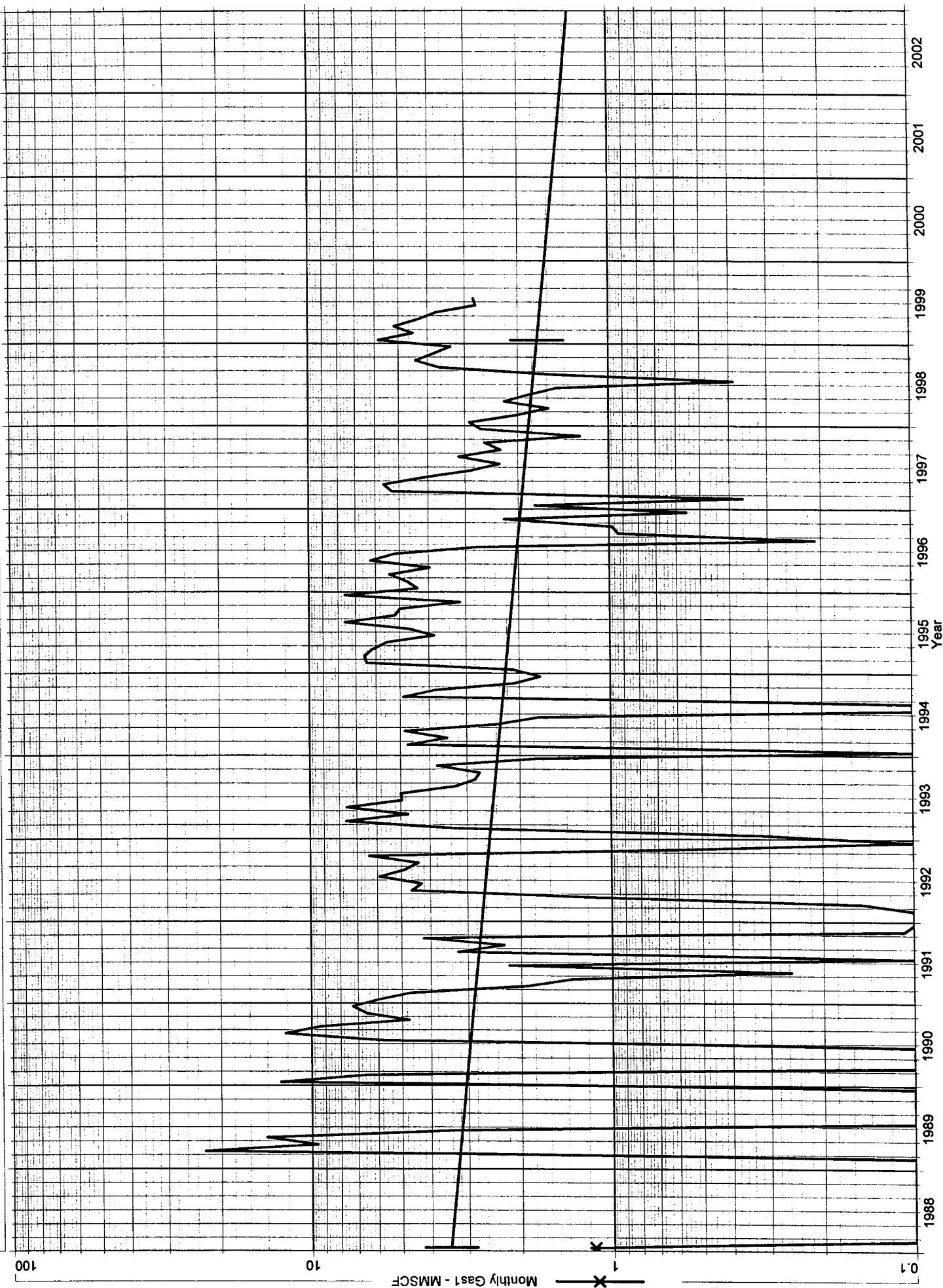
OPERATOR

		year	month	day	wh psi	cum prod	
MV	BOLACK TOMMY 1M/600702	1989		4	21	830	original
	BOLACK TOMMY 1M	1990		4	10	854	
	BOLACK TOMMY 1M	1991		6	17	713	
	BOLACK TOMMY 1M	1991		7	8	725	
	BOLACK TOMMY 1M	1993		5	3	593	
						244	443.446 current estimate from P/Z data
DK	BOLACK TOMMY 1M/600703	1982		7	21	1,700.00	original
	BOLACK TOMMY 1M	1982		12	18	1,355.00	
	BOLACK TOMMY 1M	1983		10	9	1,081.00	
	BOLACK TOMMY 1M	1984		6	18	758	
	BOLACK TOMMY 1M	1985		7	12	728	
	BOLACK TOMMY 1M	1988		9	3	777	
	BOLACK TOMMY 1M	1990		4	10	675	
	BOLACK TOMMY 1M	1993		8	15	947	
						695	451.814 current estimate from P/Z data

Bolack Tommy #1M
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

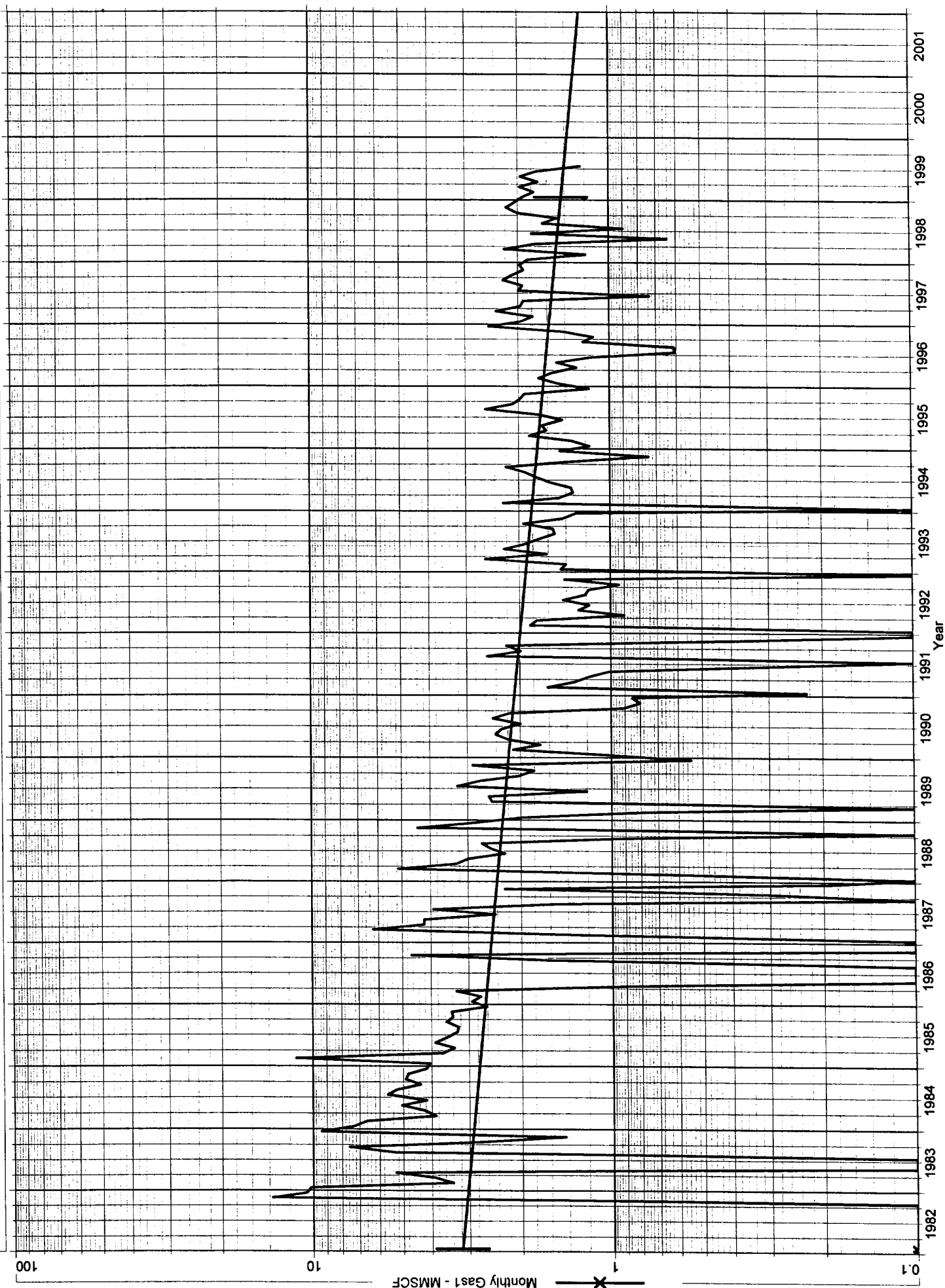
Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	<u>0.692</u>	GAS GRAVITY	<u>0.643</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.28</u>	%N2	<u>0.39</u>
%CO2	<u>0.59</u>	%CO2	<u>1.67</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>5.5</u>	DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>4714</u>	DEPTH (FT)	<u>6470</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>135</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>164</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>256</u>	SURFACE PRESSURE (PSIA)	<u>707</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>287.2</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>822.6</u>
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.692</u>	GAS GRAVITY	<u>0.643</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.28</u>	%N2	<u>0.39</u>
%CO2	<u>0.59</u>	%CO2	<u>1.67</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>5.5</u>	DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>4714</u>	DEPTH (FT)	<u>6470</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>135</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>164</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>842</u>	SURFACE PRESSURE (PSIA)	<u>1712</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>957.6</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>2025.6</u>

mv



244654060003.332 BOLACK TOMMY 1M (244654060003.332) Data: Jan. 1982-Aug. 1999

DIC



261293164135.538 BOLACK TOMMY 1M (261293164135.538) Data: Jan. 1988-Jun. 1999

Operator: BURLINGTON RESOURCES OG

Field: BLANCO MESAVERDE (PRORATED 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: 587.641 MMSCF

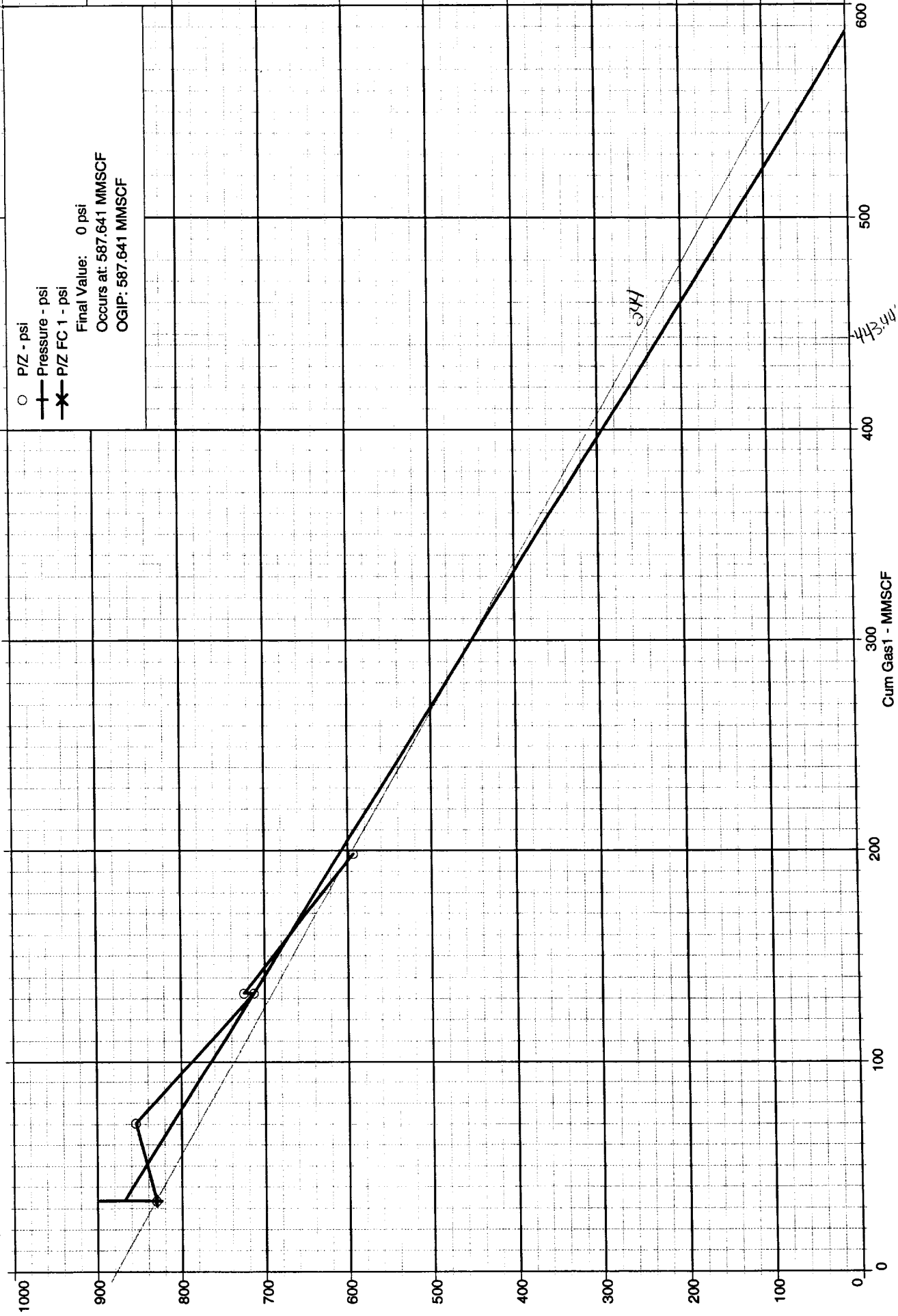
Production Cums

Oil: 0 MSTB

Gas: 443.446 MMSCF

Water: 0 MSTB

Cond: 1.43686 MSTB



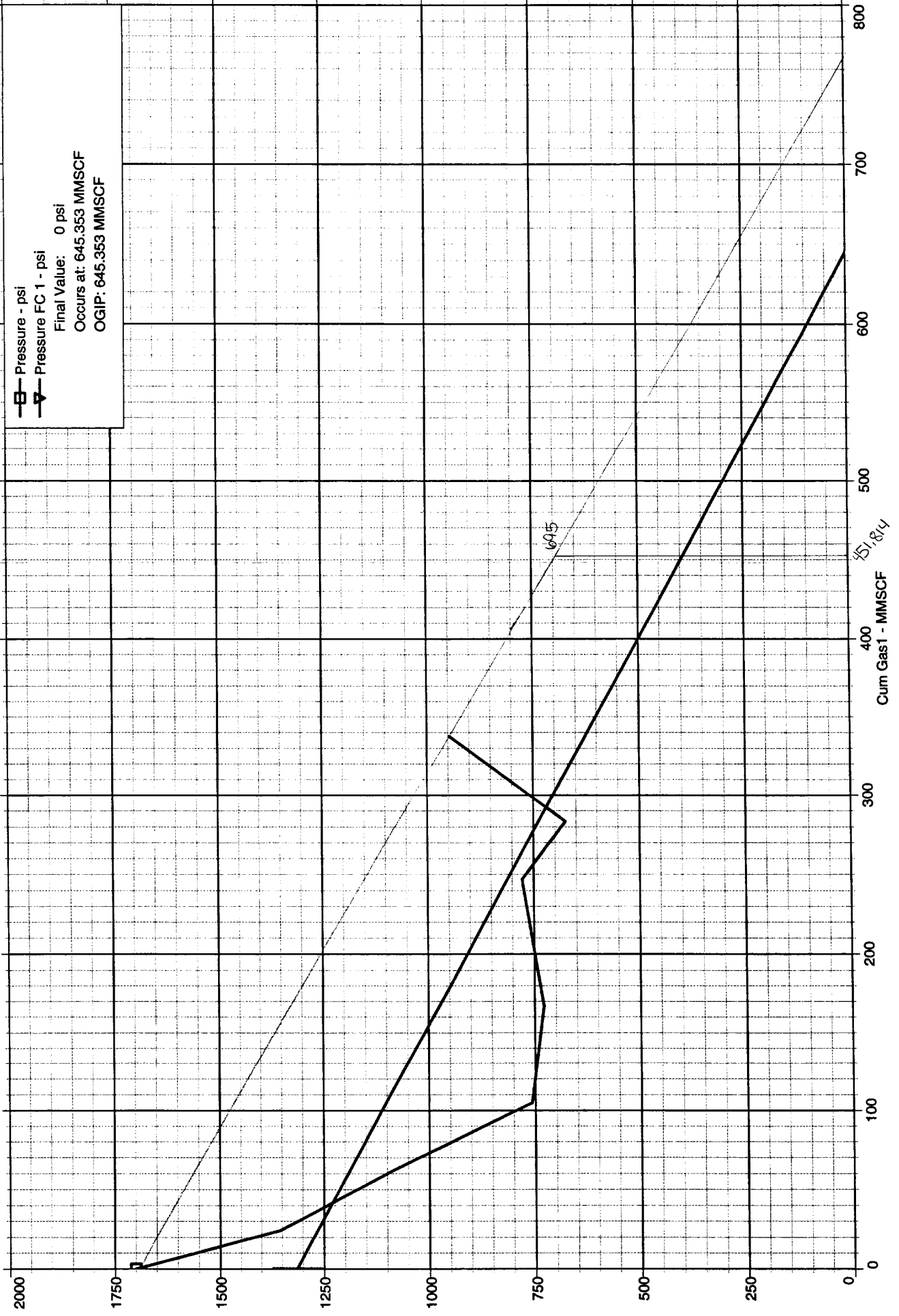
244654060003.332 BOLACK TOMMY 1M (244654060003.332) Data: Jan. 1982-Jun. 1999

Operator: BURLINGTON RESOURCES OG
Field: BASIN DAKOTA (PRORATED GAS)

Zone:
Type: Gas
Group: None

Pressure FC 1 (P/Z Analysis)
Based On: Pressure
Vs: Cum Gas1
Final Value: 0 psi
Occurs at: 645.353 MMSCF

Production Cums
Oil: 0 MSTB
Gas: 451,815 MMSCF
Water: 2.72262 MSTB
Cond: 10.1411 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, 1:14:14 P .

Sort By :

Sort By :										
PROD MO.	TY	ST	PM	DAYS ON	OIL		GAS		WATER	
					PROD	SOL	PROD	SOLD	INJ	SUPP
Well: BOLACK TOMMY 1M DK										
10/98	PG	P	FL	31	108.96	0.00	0	0	0	0.00
11/98	PG	P	FL	29	3.46	0.00	2,181	0	13	0.00
12/98	PG	P	FL	31	27.78	0.00	2,052	0	9	0.00
Totals :	1998				140.20	0.00	4,232.38	0.00	22.62	0.00
01/99	PG	P	FL	31	11.19	42.44	1,930	0	9	0.00
02/99	PG	P	FL	28	23.15	0.00	1,766	0	8	0.00
03/99	PG	P	FL	31	18.51	0.00	1,972	0	9	0.00
04/99	PG	P	FL	30	13.88	0.00	1,711	0	8	0.00
05/99	PG	P	FL	31	18.51	0.00	1,960	0	9	0.00
06/99	PG	P	FL	30	16.68	178.73	1,731	0	8	0.00
07/99	PG	P	FL	28	10.45	0.00	1,238	0	6	0.00
08/99	PG	P	FL	31	6.94	0.00	0	0	0	0.00
Totals :	1999				119.32	221.17	12,308.30	0.00	55.63	0.00
Totals	BOLACK TOMMY 1M DK				259.52	221.17	16,540.68	0.00	78.25	0.00
Well: BOLACK TOMMY 1M MV										
10/98	PG	P	FL	0	153.80	0.00	0	0	0	0.00
11/98	PG	P	FL	30	8.10	0.00	3,823	0	0	0.00
12/98	PG	P	FL	31	11.56	0.00	3,343	0	0	0.00
Totals :	1998				173.46	0.00	7,166.47	0.00	0.00	0.00
06/99	PG	P	FL	30	0.00	0.00	2,755	0	0	0.00
07/99	PG	P	FL	31	3.46	0.00	2,811	0	2	0.00
04/99	PG	P	FL	30	16.17	0.00	4,313	0	0	0.00
05/99	PG	P	FL	31	16.17	0.00	3,744	0	0	0.00
08/99	PG	P	FL	31	16.17	0.00	0	0	0	0.00
01/99	PG	P	FL	31	18.26	167.36	5,829	0	0	0.00
02/99	PG	P	FL	28	2.32	0.00	4,469	0	0	0.00
03/99	PG	P	FL	31	11.58	0.00	5,170	0	0	0.00
Totals :	1999				84.12	167.36	29,091.39	0.00	2.32	0.00
Totals	BOLACK TOMMY 1M MV				257.58	167.36	36,257.86	0.00	2.32	0.00