

TABLE 2

DECLINE EXPONENT b AS A FUNCTION OF $\left[\frac{(q)_{MAX}}{G_i} \right]_R$ AND V_R

$\left[\frac{(q)_{MAX}}{G_i} \right]_R$	V_R		
	2	1	1
1	.4	.4	.4
3	.5	.55	.6
5	.6	.65	.7
10	.65	.8	1.0
15.5	.65	.8	1.0
30*	.6	.7	.8
100*	.5	.5	.5
1000*	.4	.4	.4

* Double depletion decline b listed in table is for the first depletion decline

Decline Exponent b As A Function Of $[q_{\max}/N]_R$
 And V_R For 2-Layer, Single Phase Liquid System

$[q_{\max}/N]_R$	V_R					
	<u>2:1</u>	<u>1:1</u>	<u>1:2</u>	<u>1:5</u>	<u>1:10</u>	<u>1:20</u>
1	0.0	0.0	0.0	0.0	0.0	0.0
3	0.13	0.19	0.22	0.20	0.15	0.1
5	0.21	0.30	0.40	0.44	0.40	0.32
10	0.27	0.41	0.53	0.64	0.66	0.63
15.5	0.32	0.45	0.60	0.72	0.76	0.77

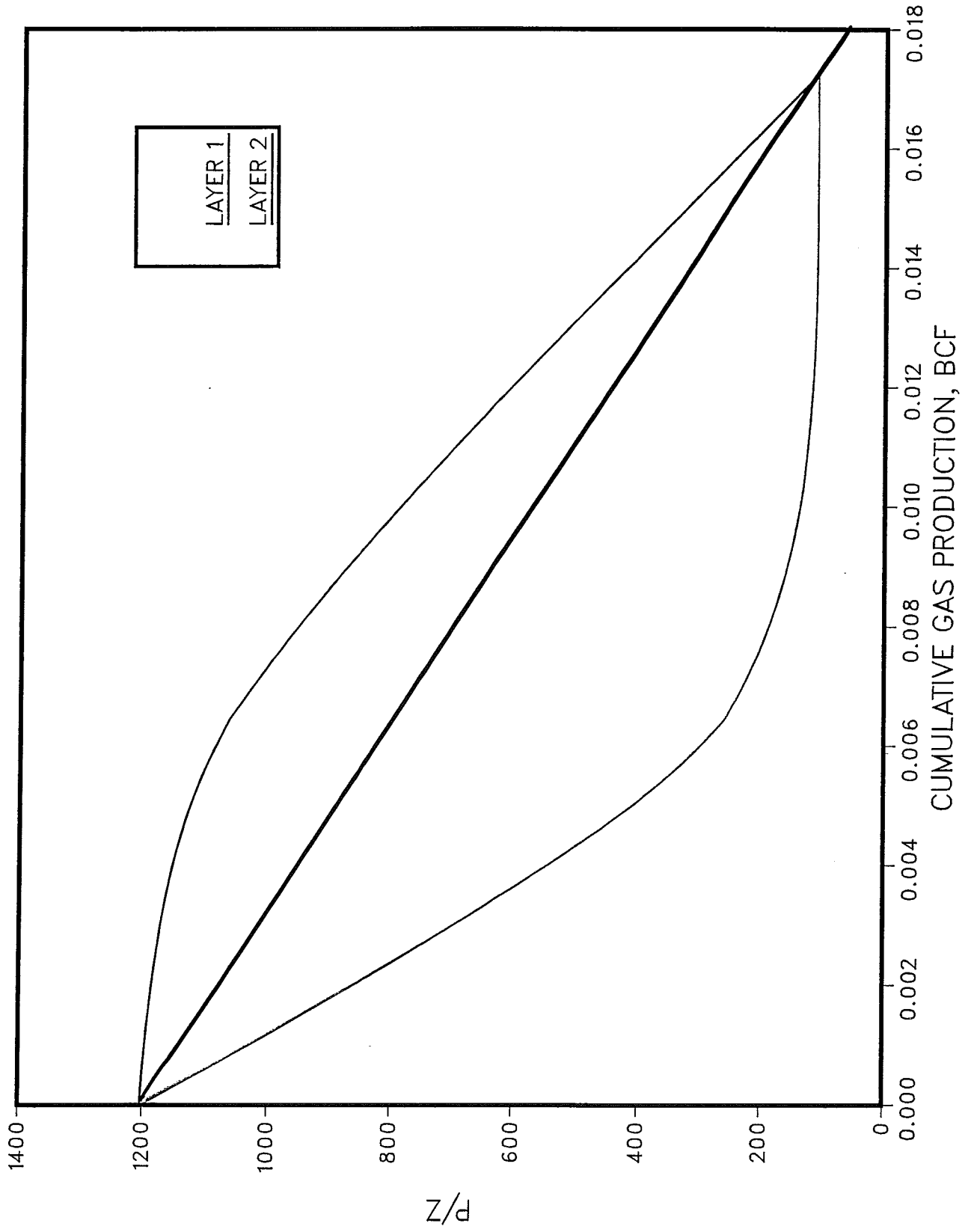
b calculated from:

$$q_T(t) = q_1(t) + q_2(t)$$

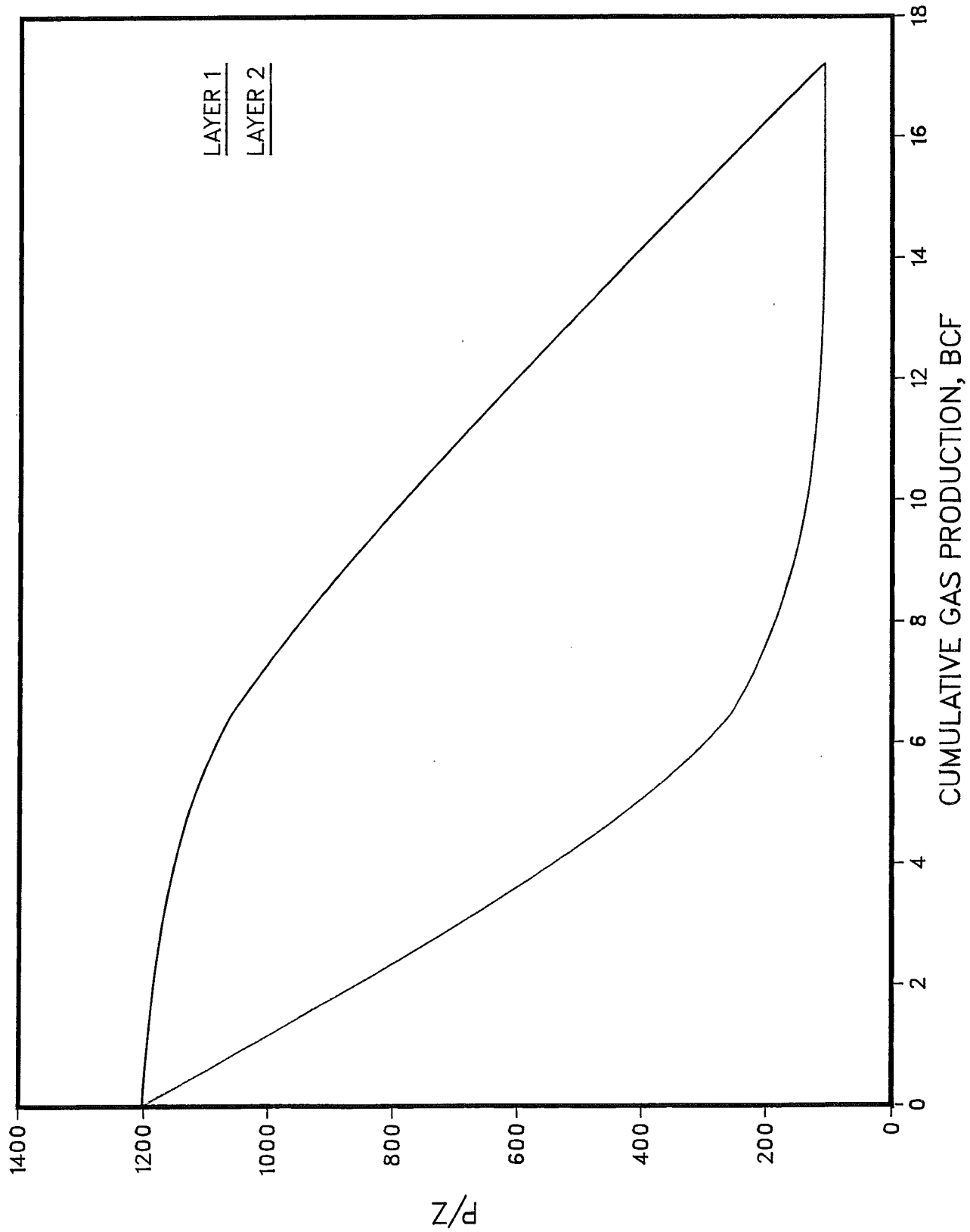
$$\frac{q_{i_T}}{\left[1 + b \left(\frac{1}{1-b}\right) \frac{q_{i_T} t}{N p_{i_T}}\right]^{1/b}} = \frac{q_{i_1}}{e^{D_1 t}} + \frac{q_{i_2}}{e^{D_2 t}}$$

where $D_1 = \frac{q_{i_1}}{N p_{i_1}}$, $D_2 = \frac{q_{i_2}}{N p_{i_2}}$

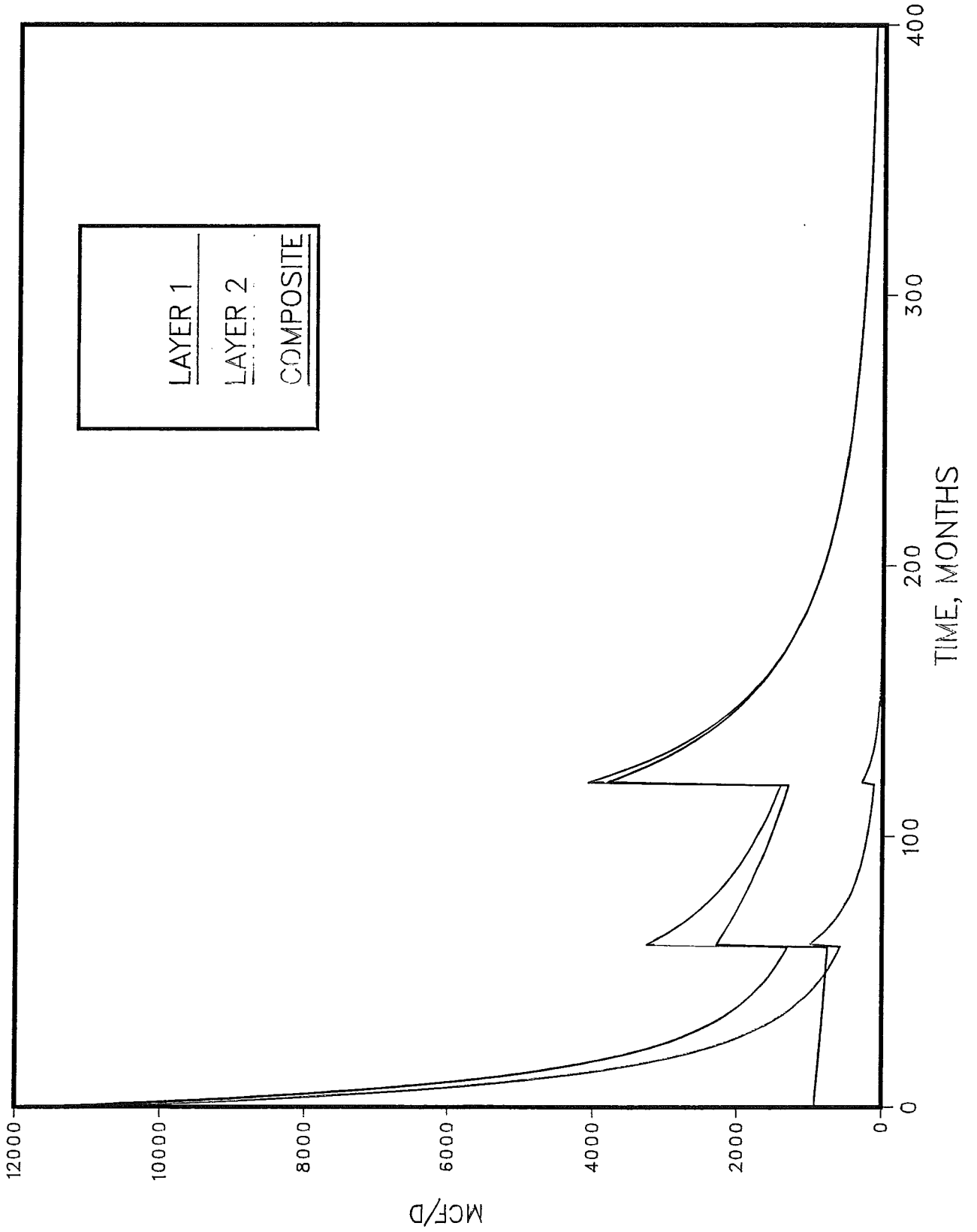
CASE 3 - 2 LAYER



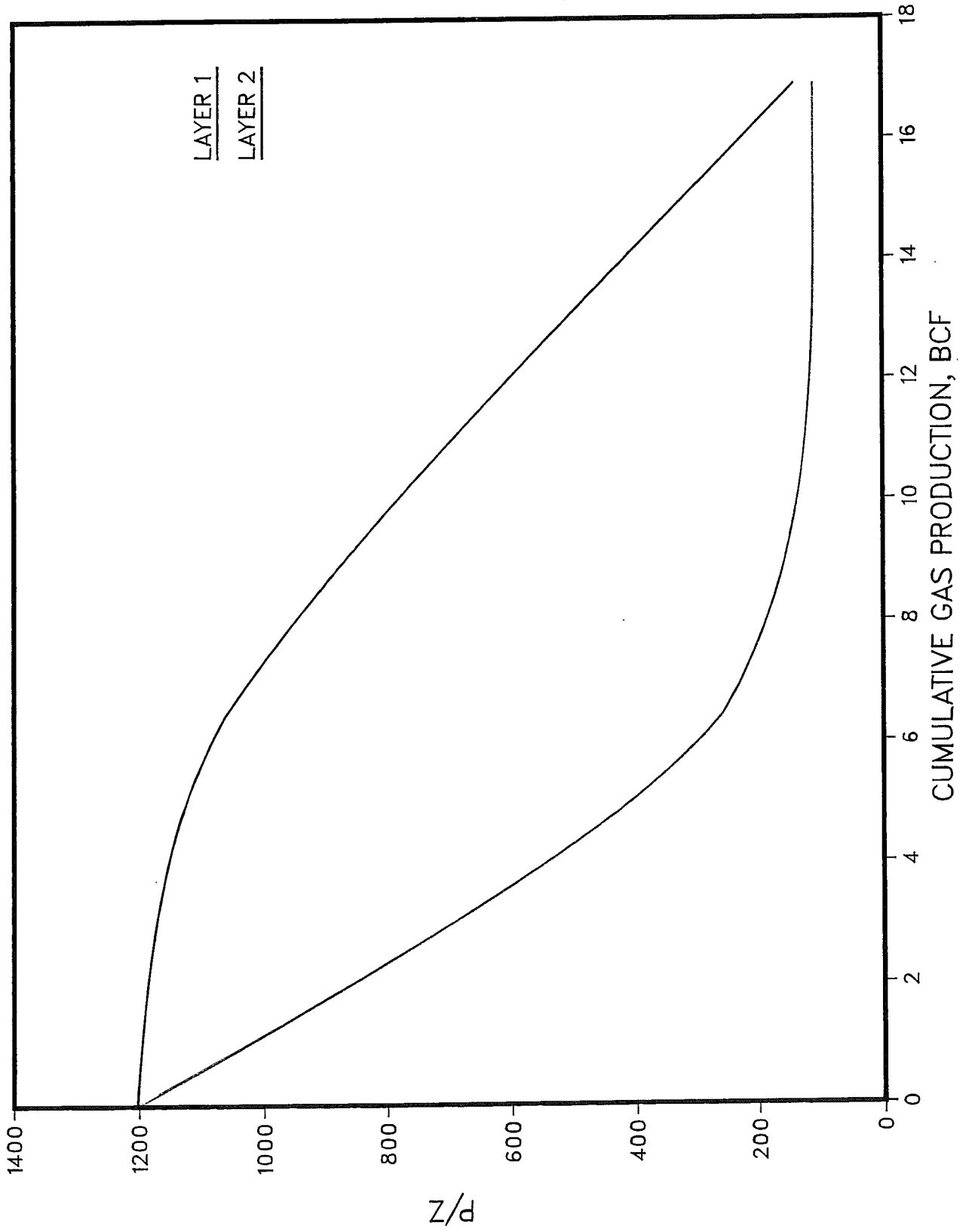
CASE 3 - 2 LAYER



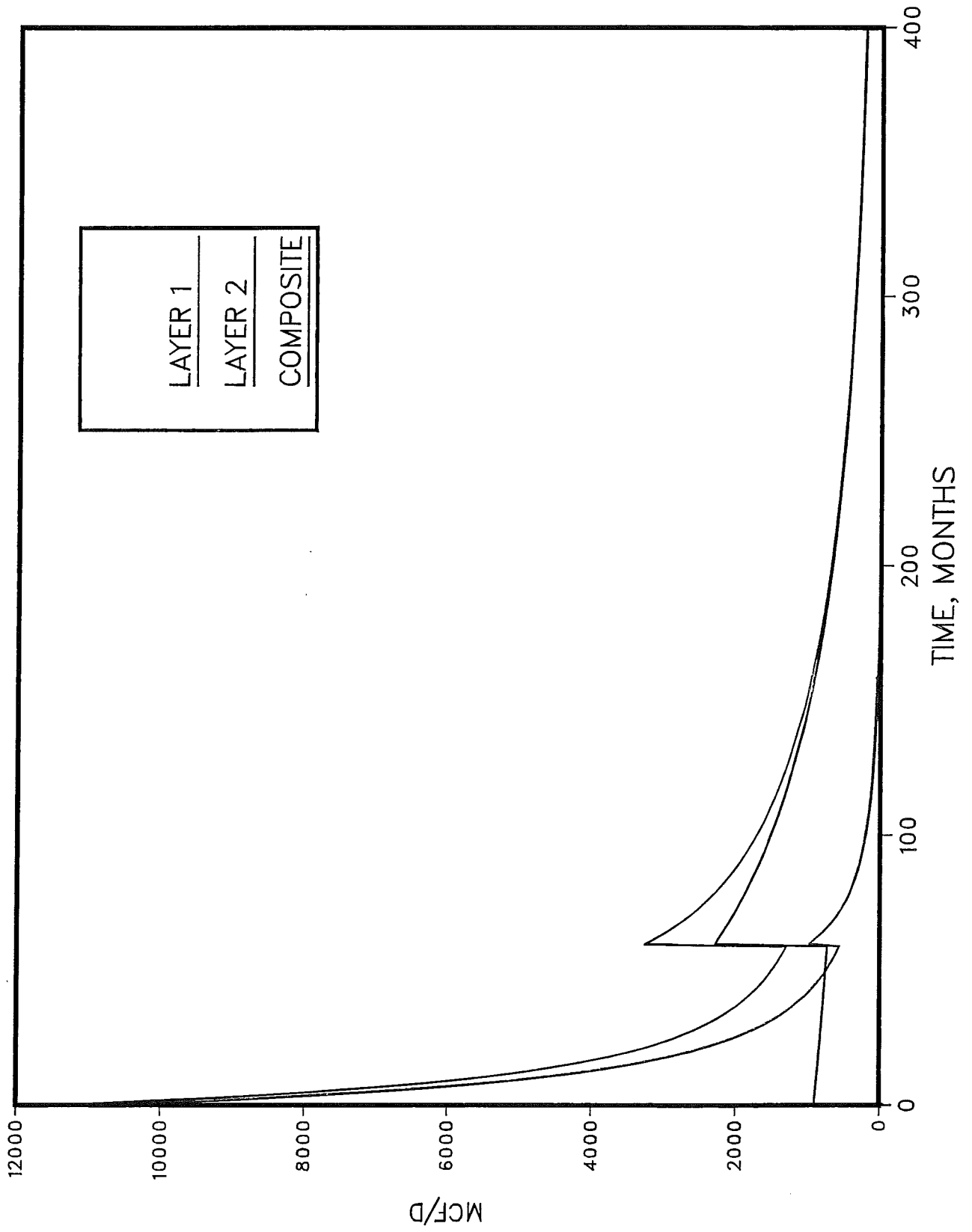
CASE 3 - 2 LAYERS



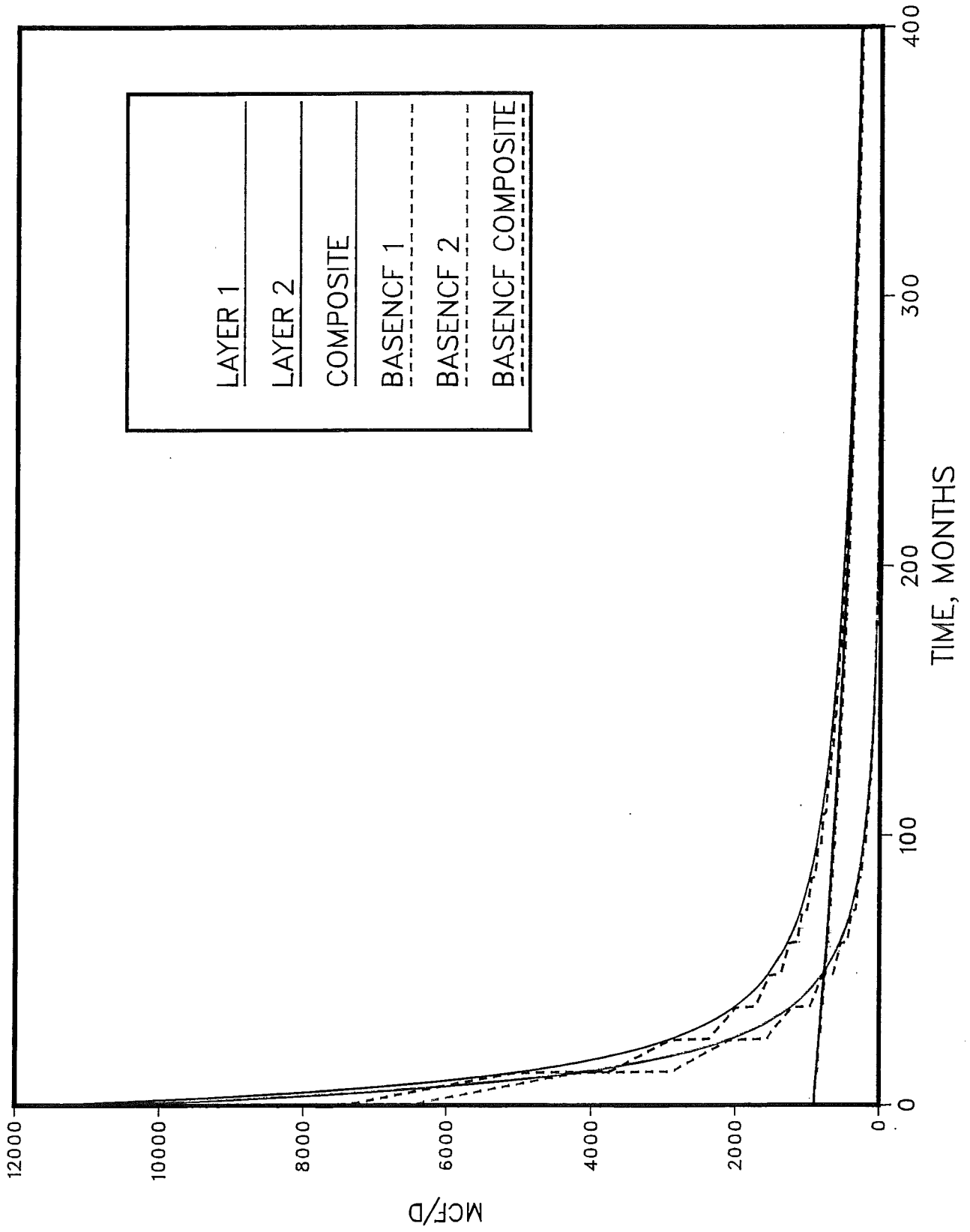
CASE 2 - 2 LAYER



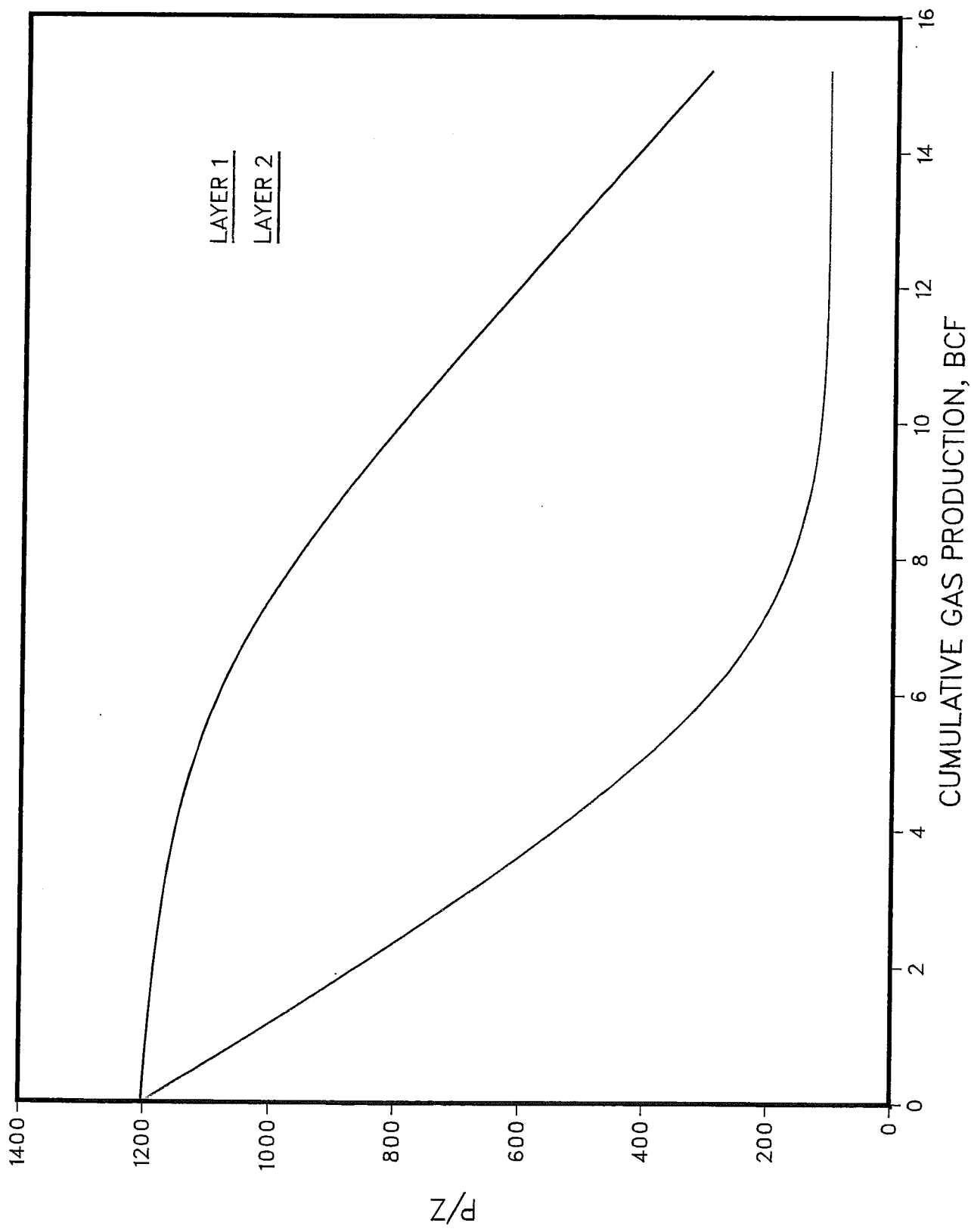
CASE 2 - 2 LAYERS

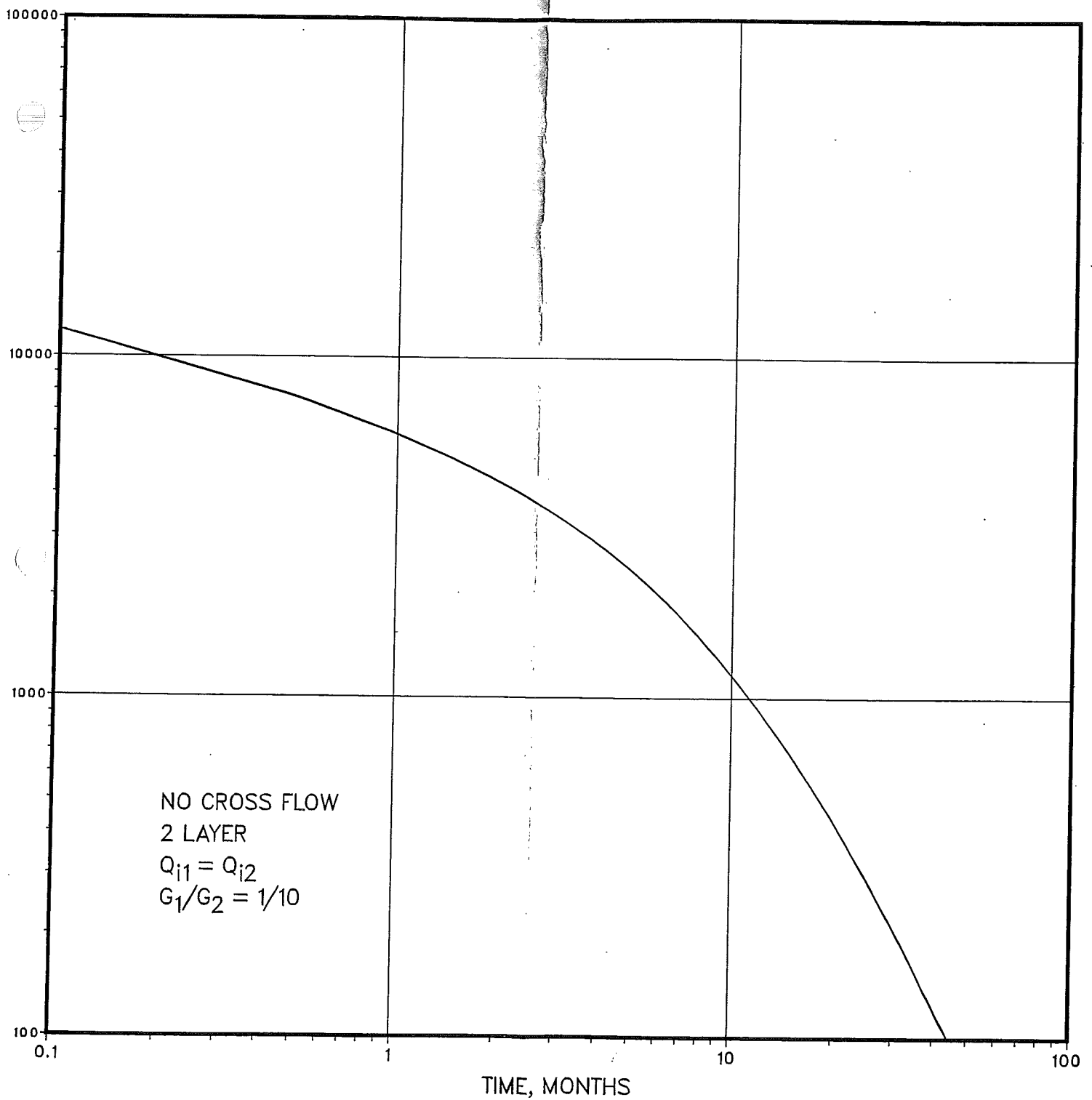


CASE 1



CASE 1 - 2 LAYER





$\frac{GP}{\pi}$	$\frac{P}{z}$
0.000	1000.000
1.632	741.586
2.651	590.152
3.370	490.659
3.919	420.295
4.362	367.902
4.734	327.374
5.055	295.091
5.338	268.770
5.593	246.897
5.825	228.435
6.038	212.642
6.237	198.978
6.422	187.041
6.597	176.522
6.762	167.183
6.919	158.836
7.068	151.331
7.211	144.547
7.349	138.383
7.480	132.760
7.607	127.609
7.729	122.873
7.847	118.503
7.961	114.459
8.072	110.706
8.179	107.213
8.283	103.954
8.384	100.907
8.483	98.051
8.578	95.369
8.671	92.845
8.762	90.467
8.851	88.221
8.937	86.097
9.021	84.086
9.103	82.178
9.184	80.366
9.262	78.643
9.339	77.002
9.414	75.437
9.487	73.944
9.559	72.518
9.630	71.154
9.698	69.848
9.766	68.597
9.832	67.397
9.897	66.245
9.961	65.138
10.023	64.075
10.084	63.051
10.145	62.066
10.203	61.116
10.261	60.201
10.318	59.317
10.374	58.464
10.429	57.641
10.483	56.844
10.536	56.074
10.588	55.329

No Crossflow
2 Layer

10.639	54.608
10.689	53.909
10.739	53.232
10.788	52.575
10.836	51.938
10.883	51.320
10.929	50.719
10.975	50.136
11.020	49.569
11.064	49.019
11.107	48.483
11.150	47.962
11.193	47.454
11.234	46.960
11.275	46.479
11.316	46.011
11.355	45.554
11.395	45.108
11.433	44.674
11.471	44.250
11.509	43.837
11.546	43.433
11.583	43.039
11.619	42.654
11.654	42.278
11.689	41.911
11.724	41.551
11.758	41.200
11.791	40.857
11.825	40.521
11.857	40.192
11.890	39.870
11.922	39.555
11.953	39.247
11.984	38.945
12.015	38.649
12.045	38.359
12.075	38.075
12.105	37.796
12.163	37.256
0.000	1000.000
0.000	1000.000
1.632	985.740
1.632	904.355
2.651	971.885
2.651	844.640
3.370	958.417
3.370	802.498
3.919	945.322
3.919	770.313
4.362	932.583
4.362	744.356
4.734	920.187
4.734	722.583
5.055	908.119
5.055	703.777
5.338	896.368
5.338	687.168
5.593	884.919
5.593	672.245

5.825	873.763
5.825	658.654
6.038	862.888
6.038	646.139
6.237	852.283
6.237	634.515
6.422	841.939
6.422	623.639
6.597	831.845
6.597	613.404
6.762	821.994
6.762	603.724
6.919	812.376
6.919	594.529
7.068	802.983
7.068	585.766
7.211	793.807
7.211	577.387
7.349	784.842
7.349	569.356
7.480	776.079
7.480	561.639
7.607	767.512
7.607	554.211
7.729	759.135
7.729	547.047
7.847	750.941
7.847	540.128
7.961	742.924
7.961	533.436
8.072	735.079
8.072	526.954
8.179	727.400
8.179	520.671
8.283	719.882
8.283	514.573
8.384	712.520
8.384	508.649
8.483	705.309
8.483	502.889
8.578	698.244
8.578	497.286
8.671	691.322
8.671	491.830
8.762	684.538
8.762	486.514
8.851	677.887
8.851	481.332
8.937	671.366
8.937	476.276
9.021	664.971
9.021	471.343
9.103	658.699
9.103	466.525
9.184	652.546
9.184	461.819
9.262	646.508
9.262	457.220
9.339	640.583
9.339	452.723

9.414	634.767
9.414	448.324
9.487	629.057
9.487	444.020
9.559	623.451
9.559	439.807
9.630	617.946
9.630	435.682
9.698	612.538
9.698	431.641
9.766	607.226
9.766	427.683
9.832	602.007
9.832	423.803
9.897	596.878
9.897	420.000
9.961	591.837
9.961	416.271
10.023	586.882
10.023	412.613
10.084	582.010
10.084	409.024
10.145	577.221
10.145	405.502
10.203	572.510
10.203	402.046
10.261	567.878
10.261	398.652
10.318	563.321
10.318	395.320
10.374	558.838
10.374	392.047
10.429	554.427
10.429	388.831
10.483	550.086
10.483	385.672
10.536	545.814
10.536	382.567
10.588	541.609
10.588	379.516
10.639	537.470
10.639	376.516
10.689	533.394
10.689	373.566
10.739	529.381
10.739	370.665
10.788	525.429
10.788	367.811
10.836	521.537
10.836	365.004
10.883	517.703
10.883	362.242
10.929	513.926
10.929	359.524
10.975	510.205
10.975	356.849
11.020	506.538
11.020	354.215
11.064	502.925
11.064	351.623

11.107	499.364
11.107	349.070
11.150	495.854
11.150	346.557
11.193	492.394
11.193	344.081
11.234	488.983
11.234	341.642
11.275	485.620
11.275	339.240
11.316	482.304
11.316	336.873
11.355	479.034
11.355	334.541
11.395	475.809
11.395	332.242
11.433	472.627
11.433	329.976
11.471	469.489
11.471	327.743
11.509	466.394
11.509	325.541
11.546	463.339
11.546	323.371
11.583	460.325
11.583	321.230
11.619	457.352
11.619	319.119
11.654	454.417
11.654	317.037
11.689	451.520
11.689	314.983
11.724	448.661
11.724	312.958
11.758	445.838
11.758	310.959
11.791	443.052
11.791	308.987
11.825	440.301
11.825	307.041
11.857	437.585
11.857	305.121
11.890	434.903
11.890	303.225
11.922	432.254
11.922	301.355
11.953	429.639
11.953	299.508
11.984	427.055
11.984	297.685
12.015	424.503
12.015	295.885
12.045	421.982
12.045	294.108
12.075	419.492
12.075	292.353
12.105	417.031
12.105	290.620
12.163	412.198
12.163	287.217

GP	P/2
0.000	1000.000
0.000	1000.000
1.910	888.061
1.910	888.061
3.432	798.864
3.432	798.864
4.674	726.118
4.674	726.118
5.705	665.656
5.705	665.656
6.576	614.608
6.576	614.608
7.322	570.936
7.322	570.936
7.966	533.147
7.966	533.147
8.530	500.129
8.530	500.129
9.026	471.031
9.026	471.031
9.467	445.194
9.467	445.194
9.861	422.100
9.861	422.100
10.216	401.333
10.216	401.333
10.536	382.558
10.536	382.558
10.827	365.503
10.827	365.503
11.093	349.941
11.093	349.941
11.336	335.684
11.336	335.684
11.560	322.575
11.560	322.575
11.766	310.480
11.766	310.480
11.957	299.287
11.957	299.287
12.134	288.897
12.134	288.897
12.299	279.228
12.299	279.228
12.453	270.207
12.453	270.207
12.597	261.771
12.597	261.771
12.732	253.864
12.732	253.864
12.859	246.439
12.859	246.439
12.978	239.453
12.978	239.453
13.090	232.868
13.090	232.868
13.196	226.650
13.196	226.650
13.297	220.770
13.297	220.770

With Crossflow
2 Layer

13.392	215.201
13.392	215.201
13.482	209.918
13.482	209.918
13.568	204.901
13.568	204.901
13.649	200.129
13.649	200.129
13.727	195.585
13.727	195.585
13.800	191.253
13.800	191.253
13.871	187.119
13.871	187.119
13.938	183.170
13.938	183.170
14.003	179.392
14.003	179.392
14.065	175.776
14.065	175.776
14.124	172.311
14.124	172.311
14.180	168.988
14.180	168.988
14.235	165.798
14.235	165.798
14.287	162.734
14.287	162.734
14.337	159.788
14.337	159.788
14.386	156.954
14.386	156.954
14.432	154.224
14.432	154.224
14.477	151.595
14.477	151.595
14.520	149.059
14.520	149.059
14.562	146.613
14.562	146.613
14.602	144.251
14.602	144.251
14.641	141.970
14.641	141.970
14.679	139.764
14.679	139.764
14.715	137.632
14.715	137.632
14.751	135.568
14.751	135.568
14.785	133.570
14.785	133.570
14.818	131.634
14.818	131.634
14.850	129.759
14.850	129.759
14.881	127.940
14.881	127.940
14.911	126.175
14.911	126.175

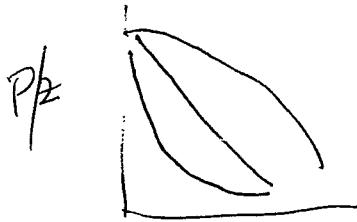
14.940	124.463
14.940	124.463
14.969	122.800
14.969	122.800
14.996	121.185
14.996	121.185
15.023	119.616
15.023	119.616
15.049	118.090
15.049	118.090
15.074	116.606
15.074	116.606
15.099	115.163
15.099	115.163
15.123	113.757
15.123	113.757
15.146	112.390
15.146	112.390
15.169	111.057
15.169	111.057
15.191	109.759
15.191	109.759
15.213	108.494
15.213	108.494
15.234	107.260
15.234	107.260
15.254	106.057
15.254	106.057
15.274	104.883
15.274	104.883
15.294	103.738
15.294	103.738
15.313	102.620
15.313	102.620
15.332	101.528
15.332	101.528
15.350	100.462
15.350	100.462
15.367	99.420
15.367	99.420
15.385	98.403
15.385	98.403
15.402	97.407
15.402	97.407
15.418	96.435
15.418	96.435
15.435	95.483
15.435	95.483
15.451	94.552
15.451	94.552
15.466	93.642
15.466	93.642
15.481	92.750
15.481	92.750
15.496	91.878
15.496	91.878
15.511	91.024
15.511	91.024
15.525	90.187
15.525	90.187

15.539	89.367
15.539	89.367
15.553	88.564
15.553	88.564
15.566	87.778
15.566	87.778
15.579	87.006
15.579	87.006
15.592	86.250
15.592	86.250
15.605	85.509
15.605	85.509
15.617	84.782
15.617	84.782
15.629	84.068
15.629	84.068
15.641	83.369
15.641	83.369
15.665	82.008
15.665	82.008

$\frac{G_1}{\pi}$	P/z
0.000	1000.000
1.639	591.447
2.784	421.592
3.709	328.538
4.494	269.802
5.180	229.355
5.787	199.805
6.330	177.271
6.820	159.520
7.266	145.175
7.672	133.342
8.045	123.413
8.388	114.964
8.705	107.687
9.000	101.353
9.273	95.791
9.528	90.867
9.766	86.477
9.990	82.540
10.199	78.988
10.397	75.768
10.583	72.835
10.758	70.152
10.924	67.689
11.081	65.420
11.230	63.323
11.372	61.378
11.507	59.571
11.635	57.886
11.757	56.312
11.874	54.838
11.985	53.455
12.092	52.155
12.194	50.930
12.292	49.775
12.386	48.683
12.476	47.649
12.562	46.669
12.646	45.739
12.726	44.855
12.803	44.014
12.877	43.212
12.949	42.447
13.018	41.717
13.085	41.018
13.149	40.350
13.211	39.710
13.272	39.097
13.330	38.508
13.387	37.943
13.441	37.399
13.494	36.876
13.546	36.373
13.596	35.889
13.644	35.422
13.691	34.971
13.737	34.536
13.781	34.116
13.824	33.711
13.866	33.318

No Crossflow
 2 Layer
 $Q_{i1} = Q_{i2} = 5960$
 $G_1/G_2 = \frac{10}{1}$
 1.72
 17.24
 RF = 9

13.907	32.938
13.947	32.571
13.986	32.215
14.024	31.870
14.060	31.536
14.096	31.212
14.131	30.897
14.165	30.592
14.198	30.295
14.231	30.007
14.262	29.727
14.293	29.454
14.324	29.189
14.353	28.932
14.382	28.681
14.410	28.436
14.438	28.198
14.465	27.966
14.491	27.740
14.517	27.519
14.542	27.304
14.567	27.094
14.591	26.889
14.615	26.689
14.638	26.494
14.661	26.303
14.683	26.116
14.705	25.934
14.726	25.756
14.747	25.582
14.768	25.411
14.788	25.245
14.808	25.081
14.827	24.922
14.847	24.765
14.865	24.612
14.884	24.462
14.902	24.315
14.920	24.171
14.954	23.892
0.000	1000.000
0.000	1000.000
1.639	935.146
1.639	903.966
2.784	878.266
2.784	836.838
3.709	827.975
3.709	782.668
4.494	783.191
4.494	736.618
5.180	743.057
5.180	696.455
5.787	706.883
5.787	660.883
6.330	674.112
6.330	629.040
6.820	644.284
6.820	600.308
7.266	617.021
7.266	574.216



7.672	592.004
7.672	550.396
8.045	568.968
8.045	528.549
8.388	547.686
8.388	508.431
8.705	527.966
8.705	489.839
9.000	509.640
9.000	472.602
9.273	492.567
9.273	456.573
9.528	476.623
9.528	441.628
9.766	461.698
9.766	427.659
9.990	447.698
9.990	414.572
10.199	434.540
10.199	402.285
10.397	422.150
10.397	390.727
10.583	410.463
10.583	379.834
10.758	399.420
10.758	369.550
10.924	388.970
10.924	359.825
11.081	379.066
11.081	350.613
11.230	369.667
11.230	341.876
11.372	360.735
11.372	333.578
11.507	352.235
11.507	325.685
11.635	344.138
11.635	318.170
11.757	336.415
11.757	311.004
11.874	329.040
11.874	304.166
11.985	321.992
11.985	297.631
12.092	315.249
12.092	291.381
12.194	308.790
12.194	285.398
12.292	302.600
12.292	279.664
12.386	296.660
12.386	274.165
12.476	290.957
12.476	268.885
12.562	285.477
12.562	263.813
12.646	280.206
12.646	258.936
12.726	275.133
12.726	254.243

12.803	270.247
12.803	249.724
12.877	265.538
12.877	245.369
12.949	260.997
12.949	241.170
13.018	256.613
13.018	237.119
13.085	252.381
13.085	233.207
13.149	248.291
13.149	229.427
13.211	244.337
13.211	225.774
13.272	240.512
13.272	222.240
13.330	236.810
13.330	218.820
13.387	233.225
13.387	215.509
13.441	229.751
13.441	212.302
13.494	226.384
13.494	209.193
13.546	223.119
13.546	206.178
13.596	219.951
13.596	203.253
13.644	216.875
13.644	200.414
13.691	213.888
13.691	197.657
13.737	210.987
13.737	194.980
13.781	208.166
13.781	192.377
13.824	205.424
13.824	189.847
13.866	202.757
13.866	187.386
13.907	200.161
13.907	184.991
13.947	197.635
13.947	182.660
13.986	195.174
13.986	180.391
14.024	192.778
14.024	178.181
14.060	190.442
14.060	176.027
14.096	188.166
14.096	173.927
14.131	185.946
14.131	171.881
14.165	183.781
14.165	169.884
14.198	181.669
14.198	167.936
14.231	179.607
14.231	166.036

14.262	177.594
14.262	164.180
14.293	175.629
14.293	162.368
14.324	173.709
14.324	160.598
14.353	171.833
14.353	158.869
14.382	169.999
14.382	157.179
14.410	168.207
14.410	155.527
14.438	166.454
14.438	153.912
14.465	164.740
14.465	152.332
14.491	163.063
14.491	150.786
14.517	161.421
14.517	149.274
14.542	159.815
14.542	147.794
14.567	158.242
14.567	146.345
14.591	156.703
14.591	144.926
14.615	155.194
14.615	143.537
14.638	153.717
14.638	142.175
14.661	152.269
14.661	140.842
14.683	150.850
14.683	139.534
14.705	149.459
14.705	138.253
14.726	148.095
14.726	136.997
14.747	146.758
14.747	135.765
14.768	145.446
14.768	134.557
14.788	144.160
14.788	133.372
14.808	142.897
14.808	132.209
14.827	141.658
14.827	131.068
14.847	140.442
14.847	129.948
14.865	139.248
14.865	128.849
14.884	138.076
14.884	127.769
14.902	136.925
14.902	126.709
14.920	135.794
14.920	125.668
14.954	133.593
14.954	123.641

T	Q _{ay}
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3.00000	210.26382
3.50000	157.35617
4.00000	121.36495
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5.50000	63.47052
6.00000	52.83315
6.50000	44.53370
7.00000	37.95084
7.50000	32.65373
8.00000	28.33664
8.50000	24.77823
9.00000	21.81533
9.50000	19.32568
10.00000	17.21635
10.50000	15.41578
11.00000	13.86822
11.50000	12.52972
12.00000	11.36533
12.50000	10.34697
13.00000	9.45193
13.50000	8.66163
14.00000	7.96084
14.50000	7.33693
15.00000	6.77939
15.50000	6.27941
16.00000	5.82957
16.50000	5.42358
17.00000	5.05610
17.50000	4.72255
18.00000	4.41902
18.50000	4.14211
19.00000	3.88890
19.50000	3.65684
20.00000	3.44372
20.50000	3.24758
21.00000	3.06674
21.50000	2.89968
22.00000	2.74510
22.50000	2.60181
23.00000	2.46878
23.50000	2.34507
24.00000	2.22988
24.50000	2.12245
25.00000	2.02214
25.50000	1.92833
26.00000	1.84051
26.50000	1.75819
27.00000	1.68093
27.50000	1.60834
28.00000	1.54006
28.50000	1.47578
29.00000	1.41519
29.50000	1.35803

Layer 1

No X flow
 2 layer
 $Q_1 = Q_2$
 $G_1/G_2 = 1/10$

30.00000	1.30404
30.50000	1.25302
31.00000	1.20475
31.50000	1.15904
32.00000	1.11572
32.50000	1.07463
33.00000	1.03564

Page 2

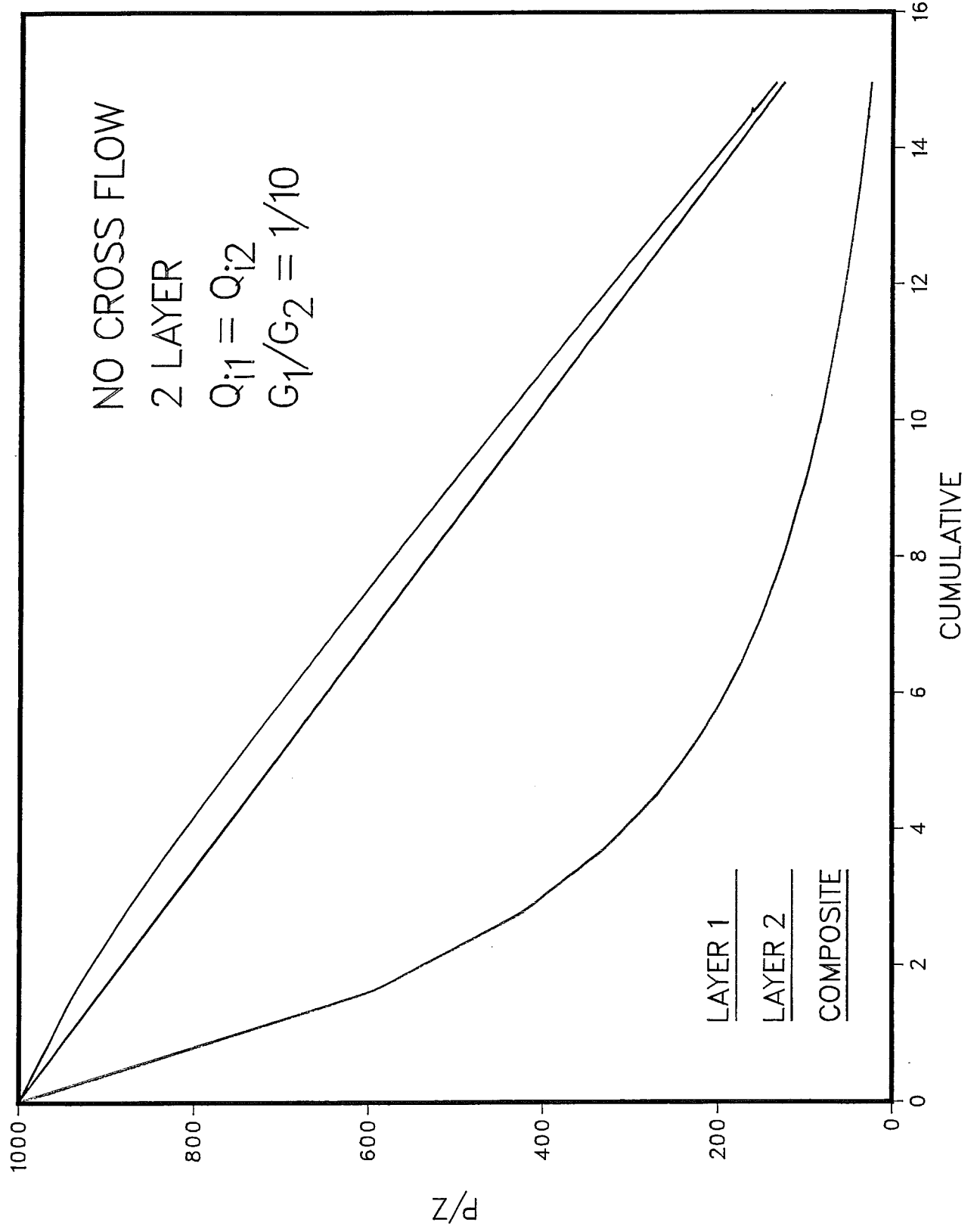
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3.50000	2937.33080
4.00000	2693.87260
4.50000	2477.75540
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5.50000	2112.87670
6.00000	1958.24927
6.50000	1819.01208
7.00000	1693.25049
7.50000	1579.33325
8.00000	1475.86353
8.50000	1381.64099
9.00000	1295.62976
9.50000	1216.93201
10.00000	1144.76733
10.50000	1078.45459
11.00000	1017.39752
11.50000	961.07245
12.00000	909.01807
12.50000	860.82697
13.00000	816.13812
13.50000	774.63116
14.00000	736.02039
14.50000	700.05103
15.00000	666.49548
15.50000	635.14929
16.00000	605.82867
16.50000	578.36871
17.00000	552.62006
17.50000	528.44818
18.00000	505.73111
18.50000	484.35794
19.00000	464.22833
19.50000	445.25070
20.00000	427.34180
20.50000	410.42523
21.00000	394.43161
21.50000	379.29709
22.00000	364.96323
22.50000	351.37637
23.00000	338.48740
23.50000	326.25064
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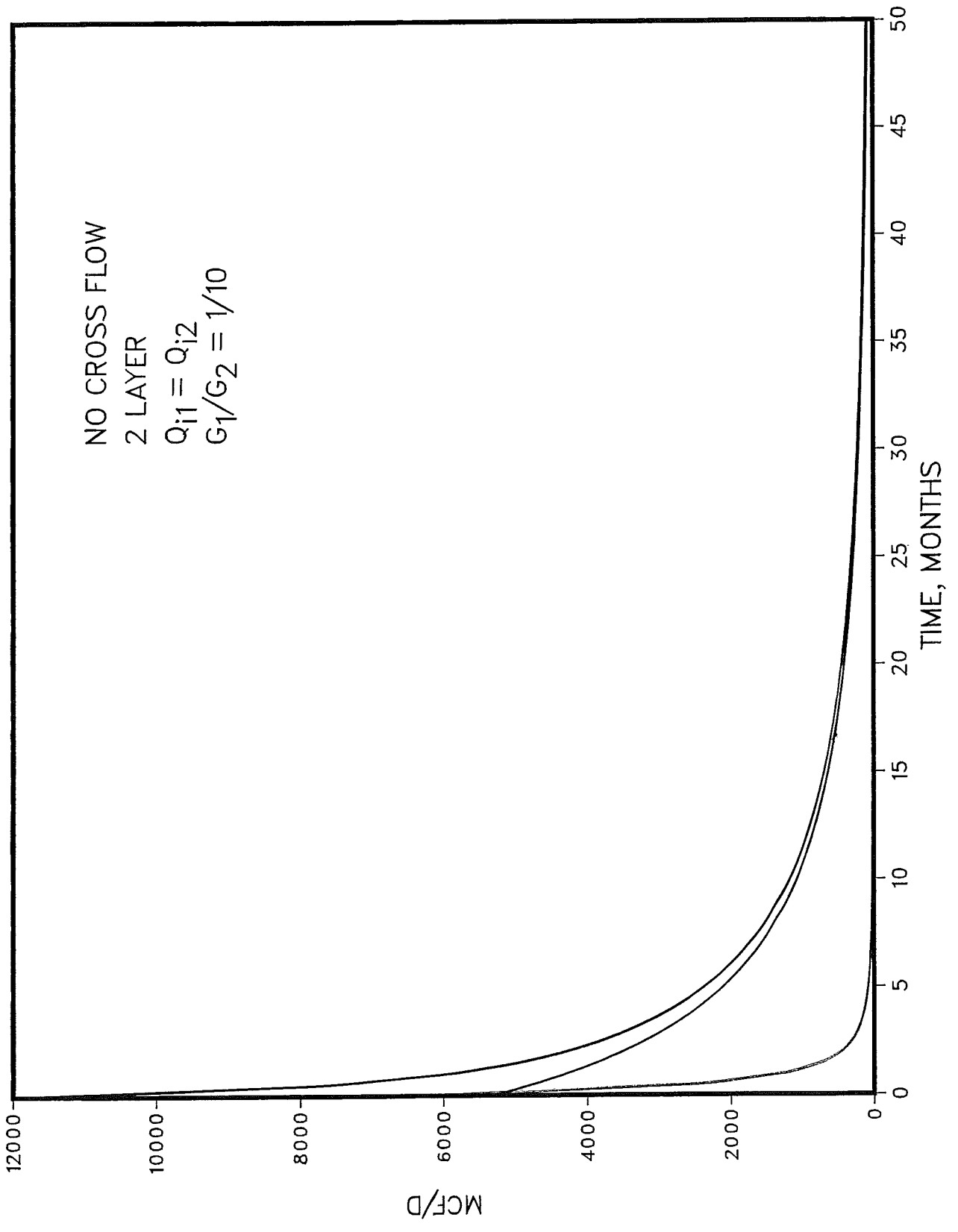
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30.00000	211.16606
30.50000	204.81732
31.00000	198.73262
31.50000	192.89806
32.00000	187.30042
32.50000	181.92769
33.00000	176.76823
33.50000	171.81130
34.00000	167.04680
34.50000	162.46535
35.00000	158.05779
35.50000	153.81586
36.00000	149.73163
36.50000	145.79761
37.00000	142.00682
37.50000	138.35260
38.00000	134.82861
38.50000	131.42908
39.00000	128.14833
39.50000	124.98110
40.00000	121.92242
40.50000	118.96748
41.00000	116.11185
41.50000	113.35124
42.00000	110.68173
42.50000	108.09934
43.00000	105.60056
43.50000	103.18188
44.00000	100.84007
44.50000	98.57198
45.00000	96.37467
45.50000	94.24535
46.00000	92.18132
46.50000	90.18000
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47.50000	86.35599
48.00000	84.52874
48.50000	82.75517
49.00000	81.03329
50.00000	77.73689
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0.00000	11920.00000
0.50000	7597.78220
1.00000	5908.39060
1.50000	4957.52780
2.00000	4308.80370
2.50000	3817.57010
3.00000	3423.00630
3.50000	3094.68700
4.00000	2815.23750
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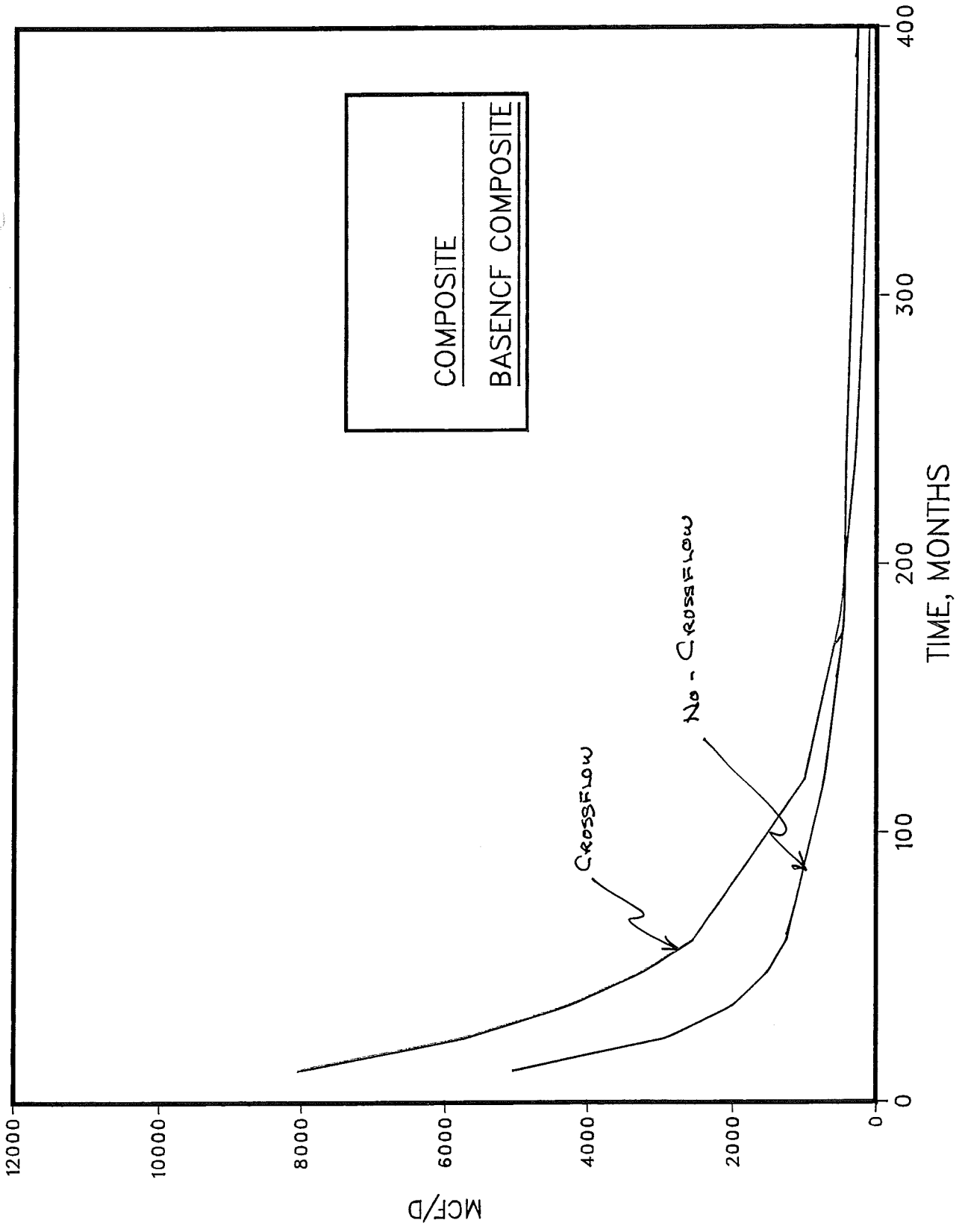
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11.00000	1031.26575
11.50000	973.60217
12.00000	920.38342
12.50000	871.17395
13.00000	825.59003
13.50000	783.29279
14.00000	743.98120
14.50000	707.38794
15.00000	673.27490
15.50000	641.42871
16.00000	611.65826
16.50000	583.79230
17.00000	557.67615
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18.00000	510.15012
18.50000	488.50006
19.00000	468.11725
19.50000	448.90753
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20.50000	413.67282
21.00000	397.49835
21.50000	382.19678
22.00000	367.70831
22.50000	353.97818
23.00000	340.95618
23.50000	328.59570
24.00000	316.85422
24.50000	305.69241
25.00000	295.07391
25.50000	284.96515
26.00000	275.33505
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27.00000	257.39783
27.50000	249.03917
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35.00000	158.95577
35.50000	154.68346
36.00000	150.57027
36.50000	146.60861

37.00000	142.79146
37.50000	139.11206
38.00000	135.56401
38.50000	132.14145
39.00000	128.83870
39.50000	125.65039
40.00000	122.57153
40.50000	119.59724
41.00000	116.72305
41.50000	113.94466
42.00000	111.25807
42.50000	108.65929
43.00000	106.14477
43.50000	103.71095
44.00000	101.35459
44.50000	99.07250
45.00000	96.86172
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46.00000	92.64291
46.50000	90.62956
47.00000	88.67695
47.50000	86.78275
48.00000	84.94472
48.50000	83.16074
49.00000	81.42880
50.00000	78.11334







COMPOSITE

BASECNF COMPOSITE

CROSSFLOW

NO - CROSSFLOW

MCF/D

TIME, MONTHS

FPR VS TIME Q2F2
 FOPR VS TIME Q2F2
 WGOR PRODUCER VS TIME Q2F2

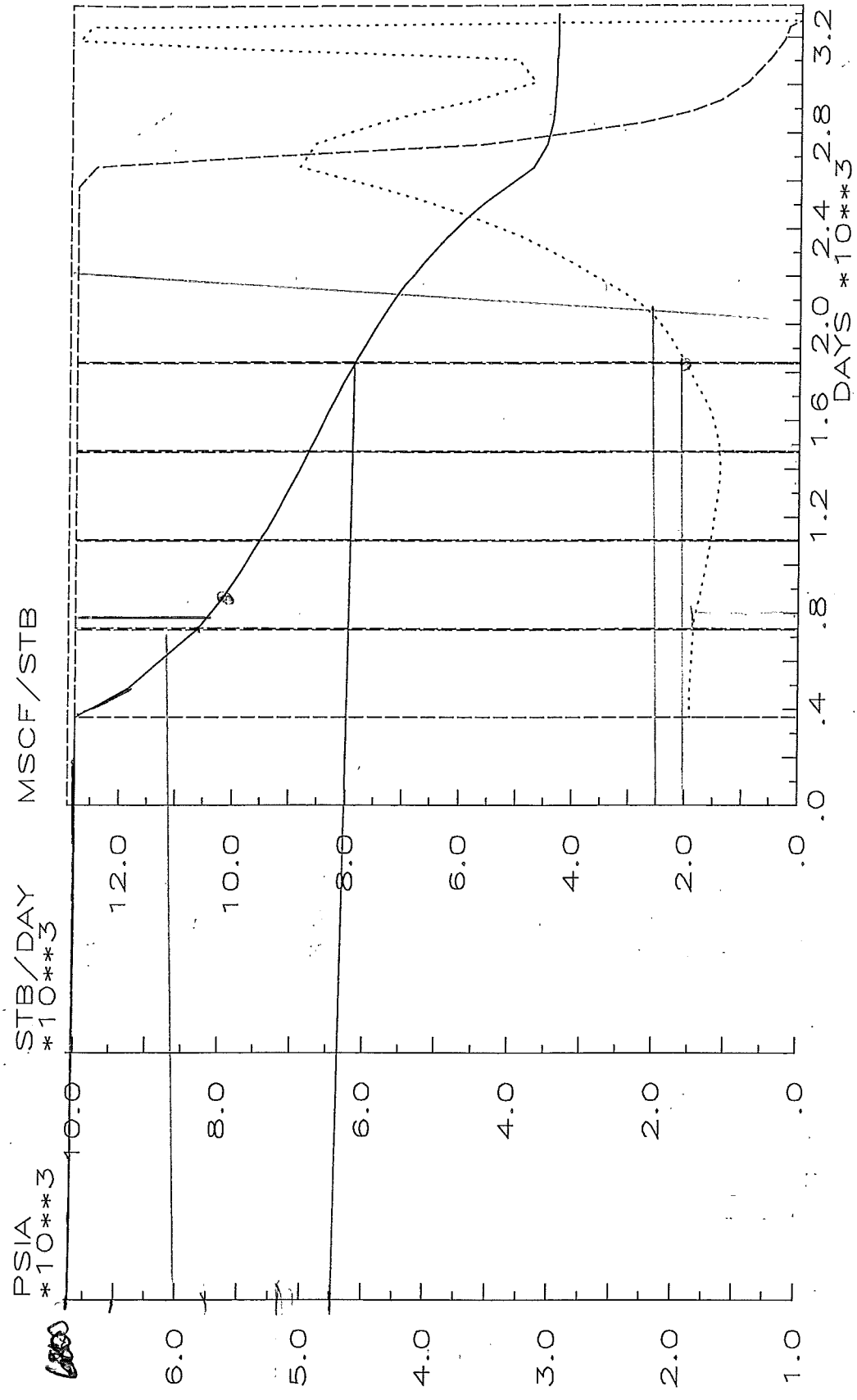


Figure 3 23/06/93 at 17:13:21