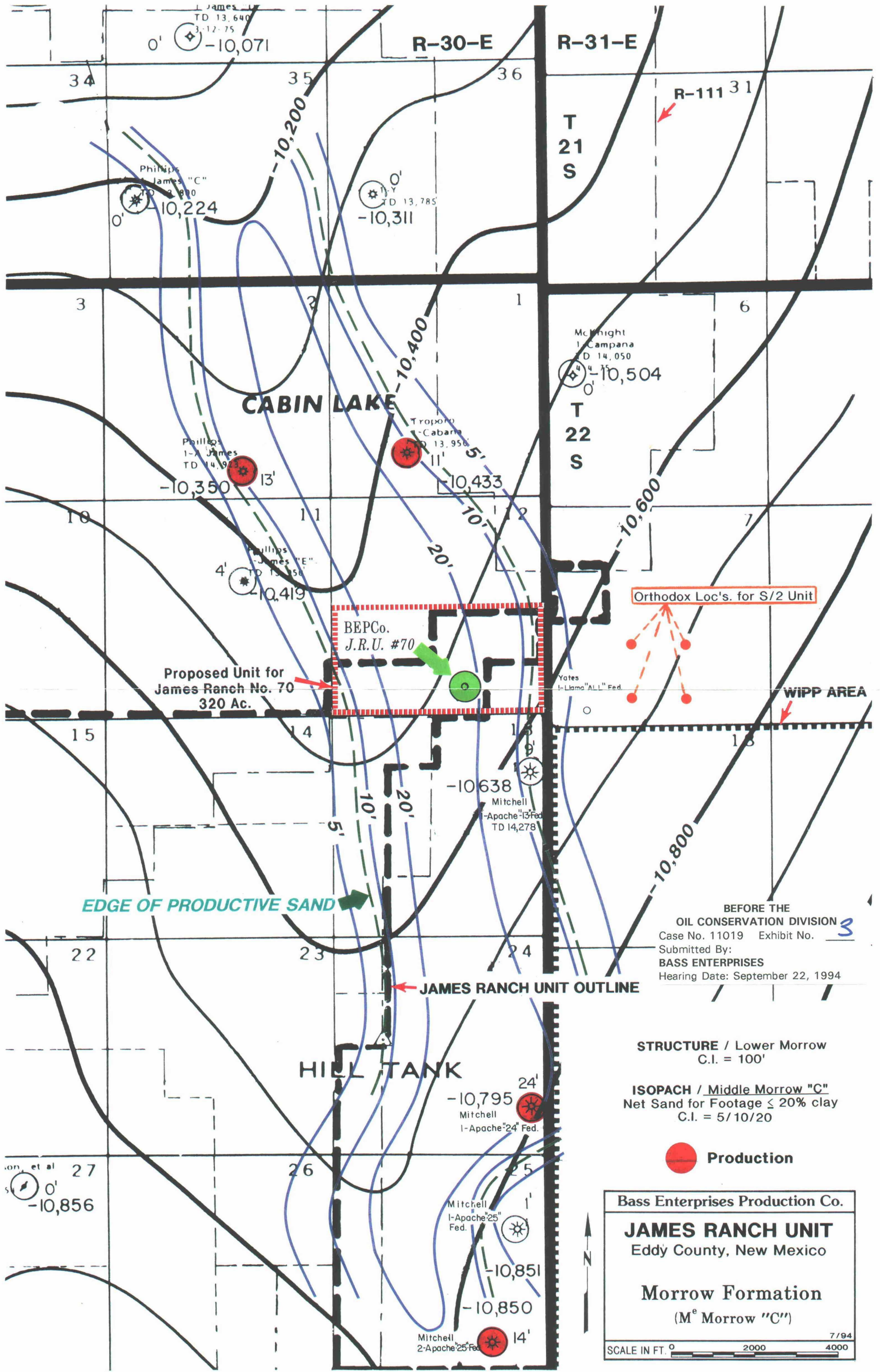




Proposed Unit for
James Ranch No. 70
320 Ac.

BEPCo.
J.R.U. #70

Orthodox Loc's. for S/2 Unit

WIPP AREA

EDGE OF PRODUCTIVE SAND

JAMES RANCH UNIT OUTLINE

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11019 Exhibit No. 3
Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994

STRUCTURE / Lower Morrow
C.I. = 100'

ISOPACH / Middle Morrow "C"
Net Sand for Footage ≤ 20% clay
C.I. = 5/10/20

Production

Bass Enterprises Production Co.

JAMES RANCH UNIT
Eddy County, New Mexico

Morrow Formation
(M^e Morrow "C")

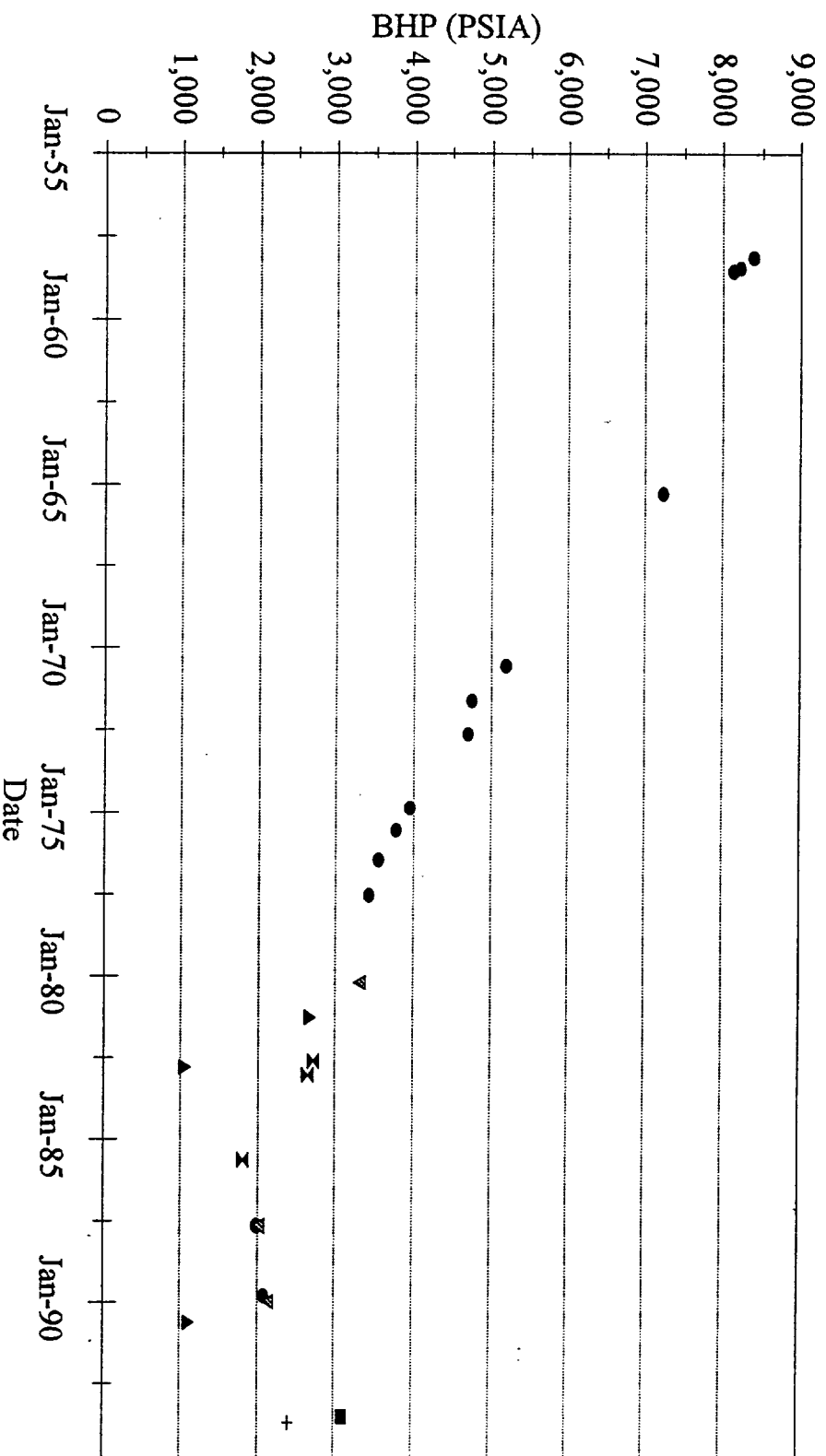
7/94

SCALE IN FT. 0 2000 4000

Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994

BHP vs. Time Pool Summary

Los Medanos (Atoka) PA



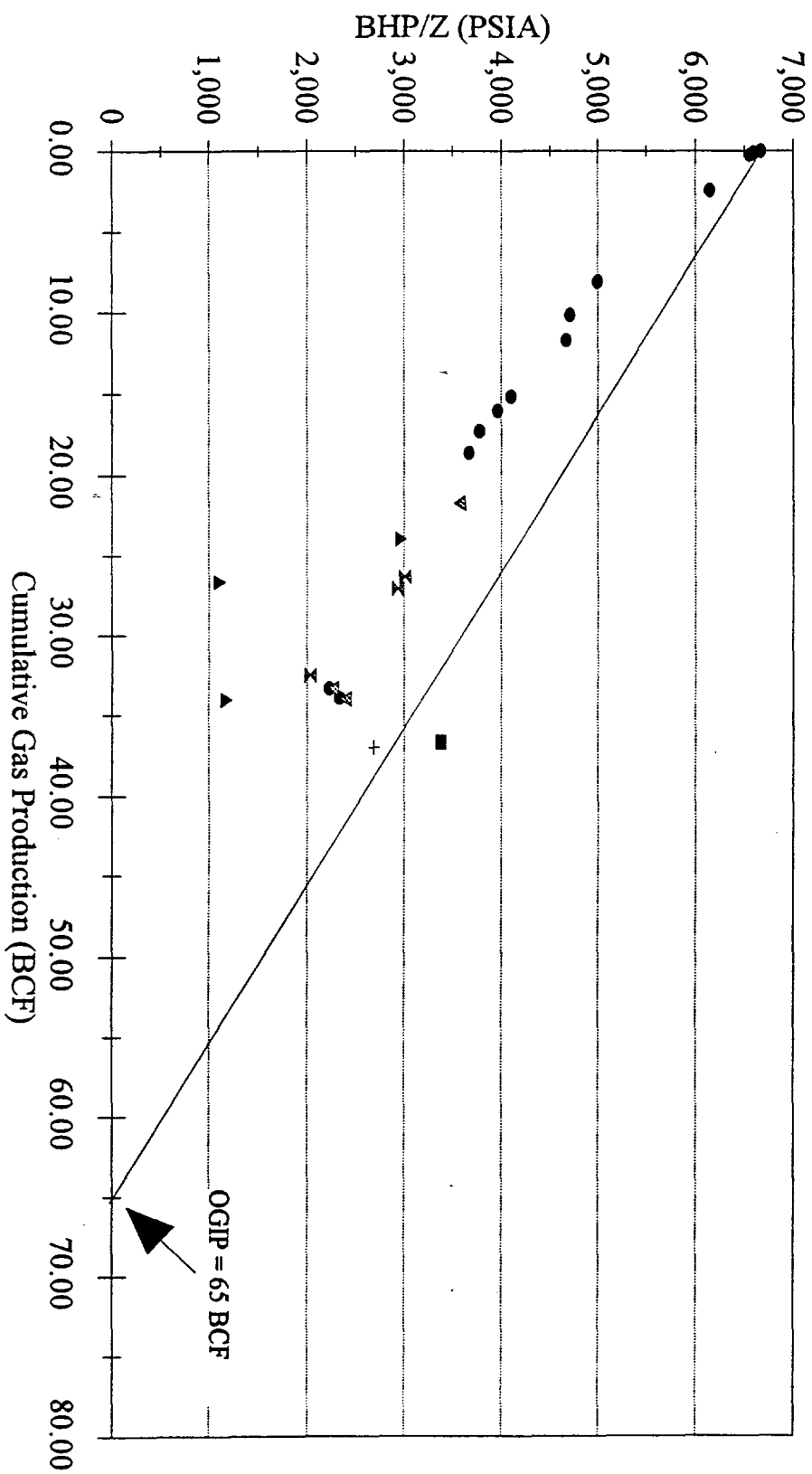
- James Ranch Unit # 1 ▲ James Ranch Unit # 11 ▼ James Ranch Unit # 10
- × James Ranch Unit # 13 ■ Apache "13" Fed. # 1 + Apache "25" Fed. # 1

1

5

ember 22, 1994

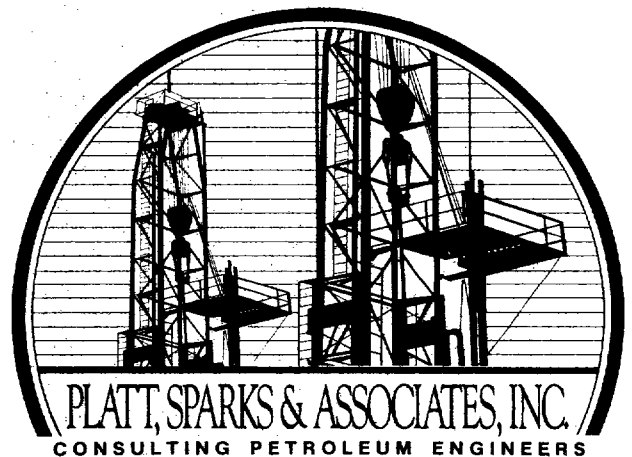
Los Medanos (Atoka) PA



- James Ranch Unit # 1 ▲ James Ranch Unit # 11 ▼ James Ranch Unit # 10
- ✕ James Ranch Unit # 13 ■ Apache "13" Fed. # 1 + Apache "25" Fed. # 1

INDIVIDUAL WELL DEPLETION HISTORY
BASS ENTERPRISES PRODUCTION COMPANY
LOS MEDANOS (ATOKA) PA
EDDY COUNTY, NEW MEXICO

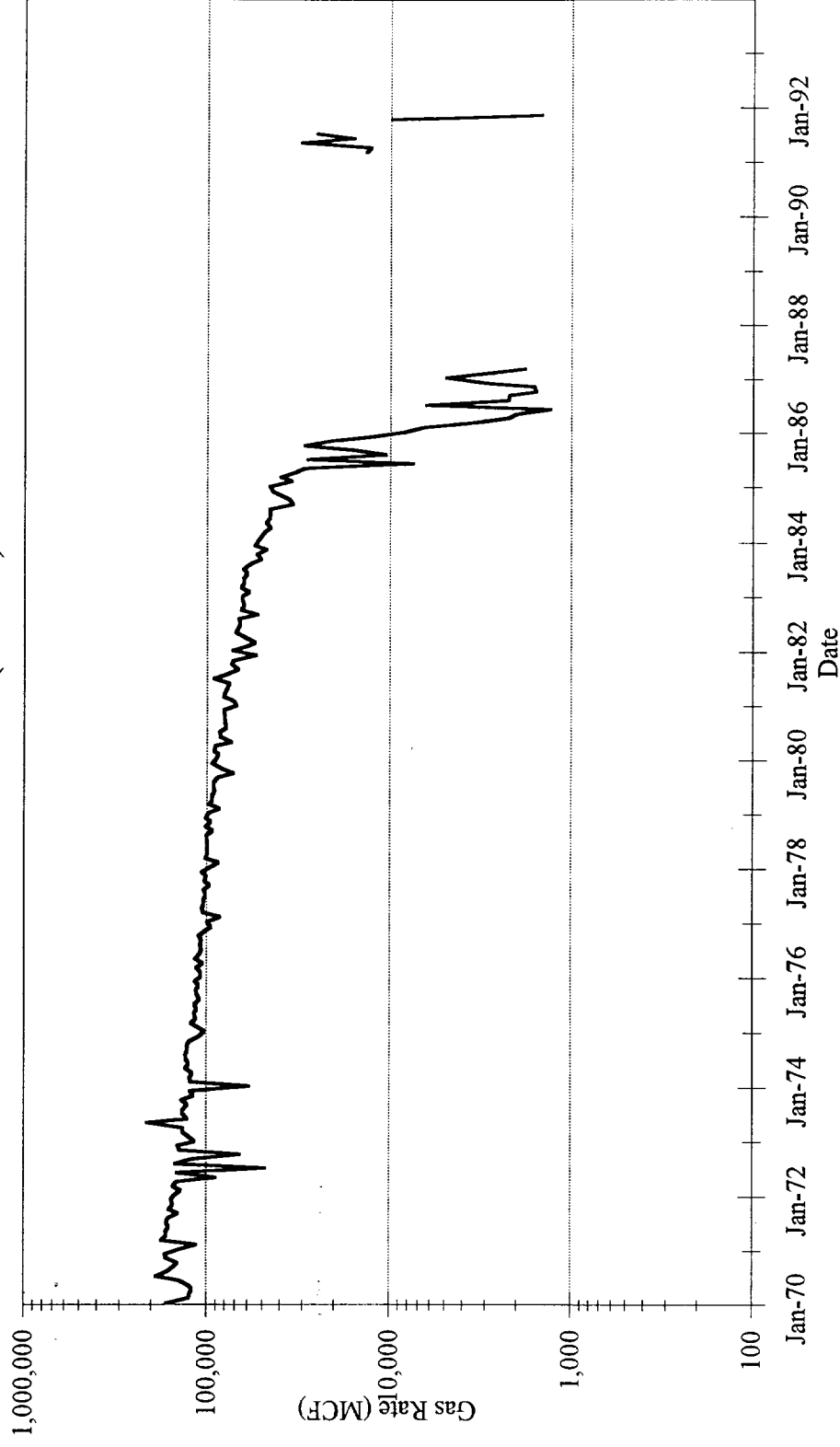
September 22, 1994



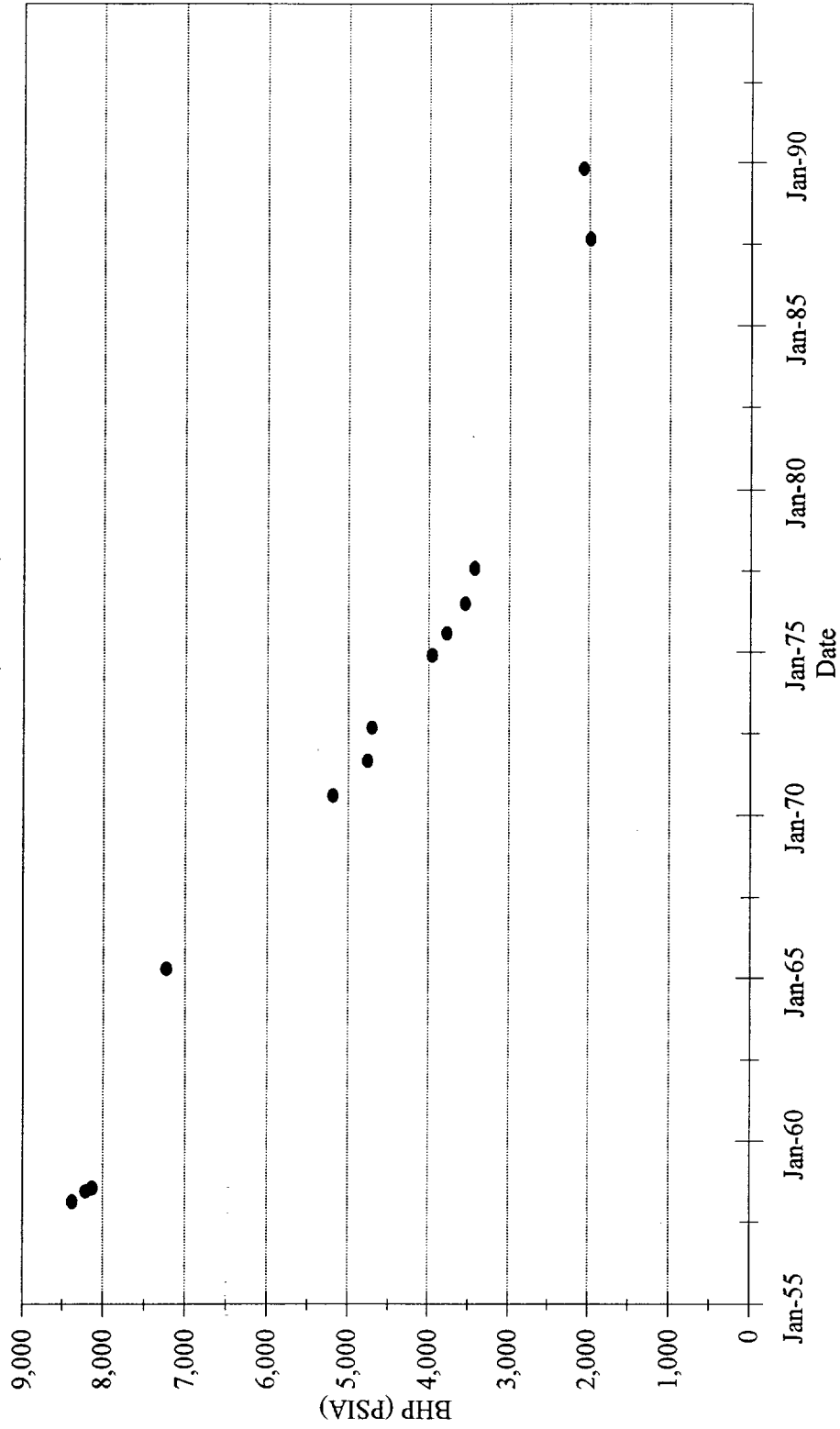
925-A Capital of Texas Highway
Austin, Texas 78746

800 N. Marienfeld, Suite 100
Midland, Texas 79701

Gas Production Rate vs. Time
James Ranch Unit # 1
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



BHP vs. Time
James Ranch Unit # 1
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Previous	Gas Production	7,012,855
Jan-70	166,363	7,179,218
Feb-70	126,739	7,305,957
Mar-70	125,068	7,431,025
Apr-70	121,077	7,552,102
May-70	125,479	7,677,581
Jun-70	140,887	7,818,468
Jul-70	187,737	8,006,205
Aug-70	164,809	8,171,014
Sep-70	152,485	8,323,499
Oct-70	143,885	8,467,384
Nov-70	166,031	8,633,415
Dec-70	168,668	8,802,083
Jan-71	142,563	8,944,646
Feb-71	114,818	9,059,464
Mar-71	175,220	9,234,684
Apr-71	165,831	9,400,515
May-71	167,378	9,567,893
Jun-71	161,177	9,729,070
Jul-71	165,391	9,894,461
Aug-71	162,267	10,056,728
Sep-71	142,689	10,199,417
Oct-71	159,546	10,358,963
Nov-71	151,819	10,510,782
Dec-71	156,450	10,667,232
Jan-72	150,426	10,817,658
Feb-72	139,341	10,956,999
Mar-72	152,551	11,109,550
Apr-72	145,078	11,254,628
May-72	90,027	11,344,655
Jun-72	144,352	11,489,007
Jul-72	48,280	11,537,287
Aug-72	147,865	11,685,152
Sep-72	121,327	11,806,479
Oct-72	66,346	11,872,825
Nov-72	139,608	12,012,433

James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-72	142,934	12,155,367
Jan-73	117,365	12,272,732
Feb-73	126,566	12,399,298
Mar-73	134,780	12,534,078
Apr-73	135,603	12,669,681
May-73	211,451	12,881,132
Jun-73	127,663	13,008,795
Jul-73	135,613	13,144,408
Aug-73	135,591	13,279,999
Sep-73	127,563	13,407,562
Oct-73	137,042	13,544,604
Nov-73	118,585	13,663,189
Dec-73	123,814	13,787,003
Jan-74	59,106	13,846,109
Feb-74	122,606	13,968,715
Mar-74	124,990	14,093,705
Apr-74	120,773	14,214,478
May-74	130,713	14,345,191
Jun-74	126,572	14,471,763
Jul-74	129,599	14,601,362
Aug-74	130,235	14,731,597
Sep-74	127,412	14,859,009
Oct-74	128,563	14,987,572
Nov-74	125,457	15,113,029
Dec-74	111,388	15,224,417
Jan-75	103,723	15,328,140
Feb-75	111,807	15,439,947
Mar-75	122,367	15,562,314
Apr-75	115,746	15,678,060
May-75	118,081	15,796,141
Jun-75	114,714	15,910,855
Jul-75	117,571	16,028,426
Aug-75	110,365	16,138,791
Sep-75	113,310	16,252,101
Oct-75	115,683	16,367,784
Nov-75	111,698	16,479,482

James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-75	116,579	16,596,061
Jan-76	108,085	16,704,146
Feb-76	108,717	16,812,863
Mar-76	114,802	16,927,665
Apr-76	106,204	17,033,869
May-76	116,279	17,150,148
Jun-76	110,329	17,260,477
Jul-76	107,202	17,367,679
Aug-76	109,403	17,477,082
Sep-76	107,806	17,584,888
Oct-76	110,818	17,695,706
Nov-76	101,608	17,797,314
Dec-76	95,301	17,892,615
Jan-77	99,810	17,992,425
Feb-77	85,601	18,078,026
Mar-77	104,979	18,183,005
Apr-77	107,018	18,290,023
May-77	104,735	18,394,758
Jun-77	104,690	18,499,448
Jul-77	102,137	18,601,585
Aug-77	104,160	18,705,745
Sep-77	97,225	18,802,970
Oct-77	103,553	18,906,523
Nov-77	101,012	19,007,535
Dec-77	106,855	19,114,390
Jan-78	96,659	19,211,049
Feb-78	87,417	19,298,466
Mar-78	102,001	19,400,467
Apr-78	99,802	19,500,269
May-78	100,668	19,600,937
Jun-78	99,843	19,700,780
Jul-78	100,053	19,800,833
Aug-78	101,055	19,901,888
Sep-78	93,526	19,995,414
Oct-78	102,002	20,097,416
Nov-78	95,763	20,193,179

James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-78	102,330	20,295,509
Jan-79	99,185	20,394,694
Feb-79	86,304	20,480,998
Mar-79	97,411	20,578,409
Apr-79	93,836	20,672,245
May-79	94,367	20,766,612
Jun-79	91,563	20,858,175
Jul-79	92,965	20,951,140
Aug-79	92,930	21,044,070
Sep-79	88,182	21,132,252
Oct-79	71,870	21,204,122
Nov-79	84,252	21,288,374
Dec-79	93,416	21,381,790
Jan-80	90,584	21,472,374
Feb-80	87,532	21,559,906
Mar-80	92,076	21,651,982
Apr-80	90,703	21,742,685
May-80	73,611	21,816,296
Jun-80	85,040	21,901,336
Jul-80	85,736	21,987,072
Aug-80	79,136	22,066,208
Sep-80	80,373	22,146,581
Oct-80	80,085	22,226,666
Nov-80	81,002	22,307,668
Dec-80	80,871	22,388,539
Jan-81	69,287	22,457,826
Feb-81	72,286	22,530,112
Mar-81	81,601	22,611,713
Apr-81	80,538	22,692,251
May-81	78,040	22,770,291
Jun-81	75,968	22,846,259
Jul-81	92,360	22,938,619
Aug-81	78,562	23,017,181
Sep-81	68,144	23,085,325
Oct-81	73,920	23,159,245
Nov-81	71,750	23,230,995

James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-81	54,261	23,285,256
Jan-82	72,340	23,357,596
Feb-82	61,301	23,418,897
Mar-82	54,734	23,473,631
Apr-82	62,860	23,536,491
May-82	69,695	23,606,186
Jun-82	68,125	23,674,311
Jul-82	66,527	23,740,838
Aug-82	67,870	23,808,708
Sep-82	53,278	23,861,986
Oct-82	65,725	23,927,711
Nov-82	63,367	23,991,078
Dec-82	64,780	24,055,858
Jan-83	64,479	24,120,337
Feb-83	59,301	24,179,638
Mar-83	65,659	24,245,297
Apr-83	63,053	24,308,350
May-83	63,619	24,371,969
Jun-83	60,798	24,432,767
Jul-83	63,677	24,496,444
Aug-83	58,048	24,554,492
Sep-83	51,032	24,605,524
Oct-83	53,646	24,659,170
Nov-83	47,921	24,707,091
Dec-83	54,738	24,761,829
Jan-84	52,956	24,814,785
Feb-84	50,679	24,865,464
Mar-84	49,098	24,914,562
Apr-84	45,171	24,959,733
May-84	47,726	25,007,459
Jun-84	46,067	25,053,526
Jul-84	45,421	25,098,947
Aug-84	46,056	25,145,003
Sep-84	34,351	25,179,354
Oct-84	35,739	25,215,093
Nov-84	40,116	25,255,209

James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-84	44,102	25,299,311
Jan-85	45,632	25,344,943
Feb-85	34,889	25,379,832
Mar-85	39,706	25,419,538
Apr-85	33,174	25,452,712
May-85	29,412	25,482,124
Jun-85	7,560	25,489,684
Jul-85	28,276	25,517,960
Aug-85	10,714	25,528,674
Sep-85	16,032	25,544,706
Oct-85	29,444	25,574,150
Nov-85	21,156	25,595,306
Dec-85	12,924	25,608,230
Jan-86	8,263	25,616,493
Feb-86	6,506	25,622,999
Mar-86	3,675	25,626,674
Apr-86	2,276	25,628,950
May-86	2,030	25,630,980
Jun-86	1,319	25,632,299
Jul-86	6,380	25,638,679
Aug-86	2,265	25,640,944
Sep-86	2,218	25,643,162
Oct-86	1,580	25,644,742
Nov-86	1,630	25,646,372
Dec-86	2,965	25,649,337
Jan-87	4,946	25,654,283
Feb-87	2,887	25,657,170
Mar-87	1,813	25,658,983
Apr-87		25,658,983
May-87		25,658,983
Jun-87		25,658,983
Jul-87		25,658,983
Aug-87		25,658,983
Sep-87		25,658,983
Oct-87		25,658,983
Nov-87	7,434	25,666,417

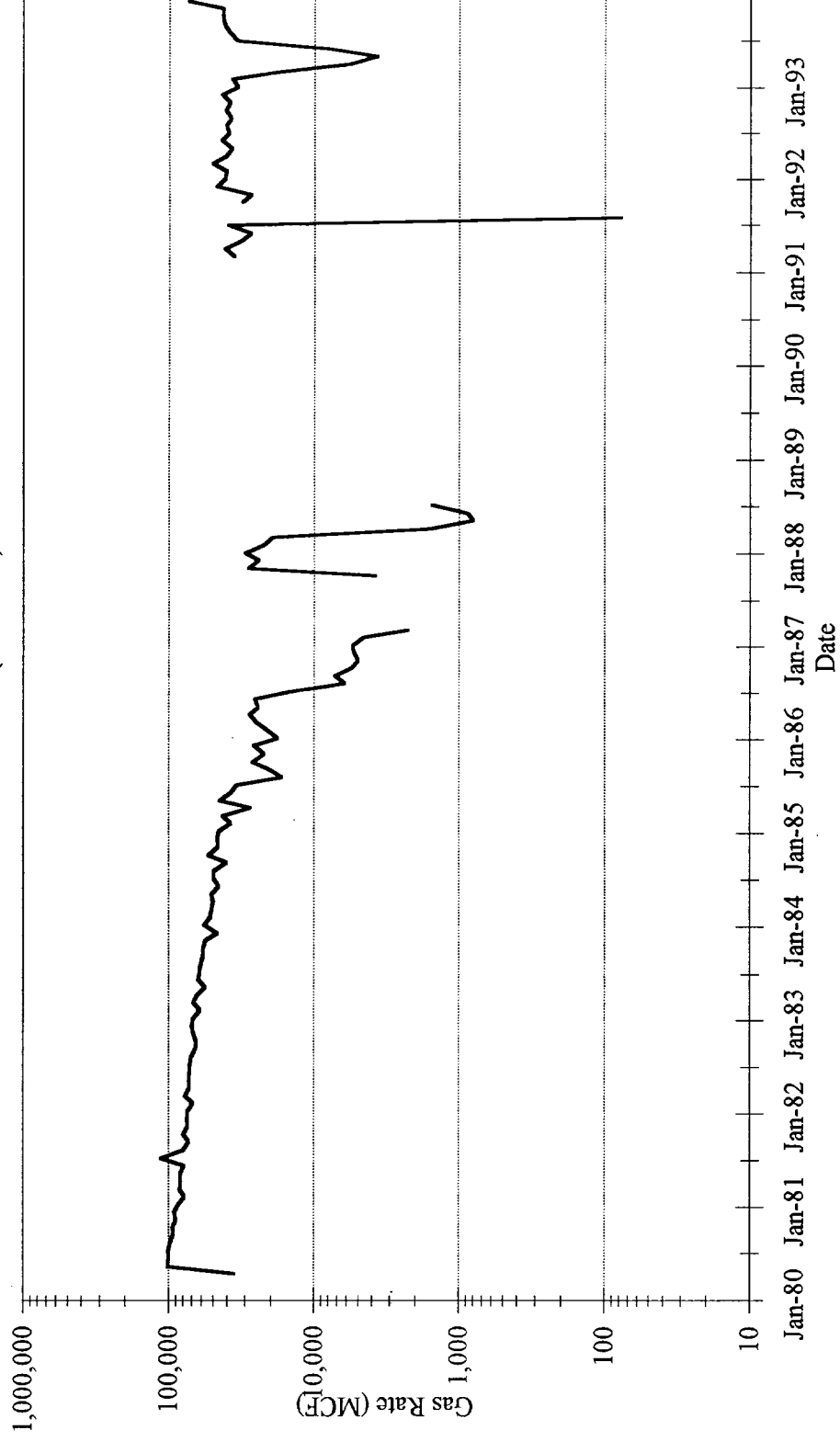
James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-87		25,666,417
Jan-88		25,666,417
Feb-88		25,666,417
Mar-88		25,666,417
Apr-88		25,666,417
May-88		25,666,417
Jun-88		25,666,417
Jul-88		25,666,417
Aug-88		25,666,417
Sep-88		25,666,417
Oct-88		25,666,417
Nov-88		25,666,417
Dec-88		25,666,417
Jan-89		25,666,417
Feb-89		25,666,417
Mar-89		25,666,417
Apr-89		25,666,417
May-89		25,666,417
Jun-89		25,666,417
Jul-89		25,666,417
Aug-89		25,666,417
Sep-89		25,666,417
Oct-89		25,666,417
Nov-89		25,666,417
Dec-89		25,666,417
Jan-90		25,666,417
Feb-90		25,666,417
Mar-90		25,666,417
Apr-90		25,666,417
May-90		25,666,417
Jun-90		25,666,417
Jul-90		25,666,417
Aug-90		25,666,417
Sep-90		25,666,417
Oct-90		25,666,417
Nov-90		25,666,417

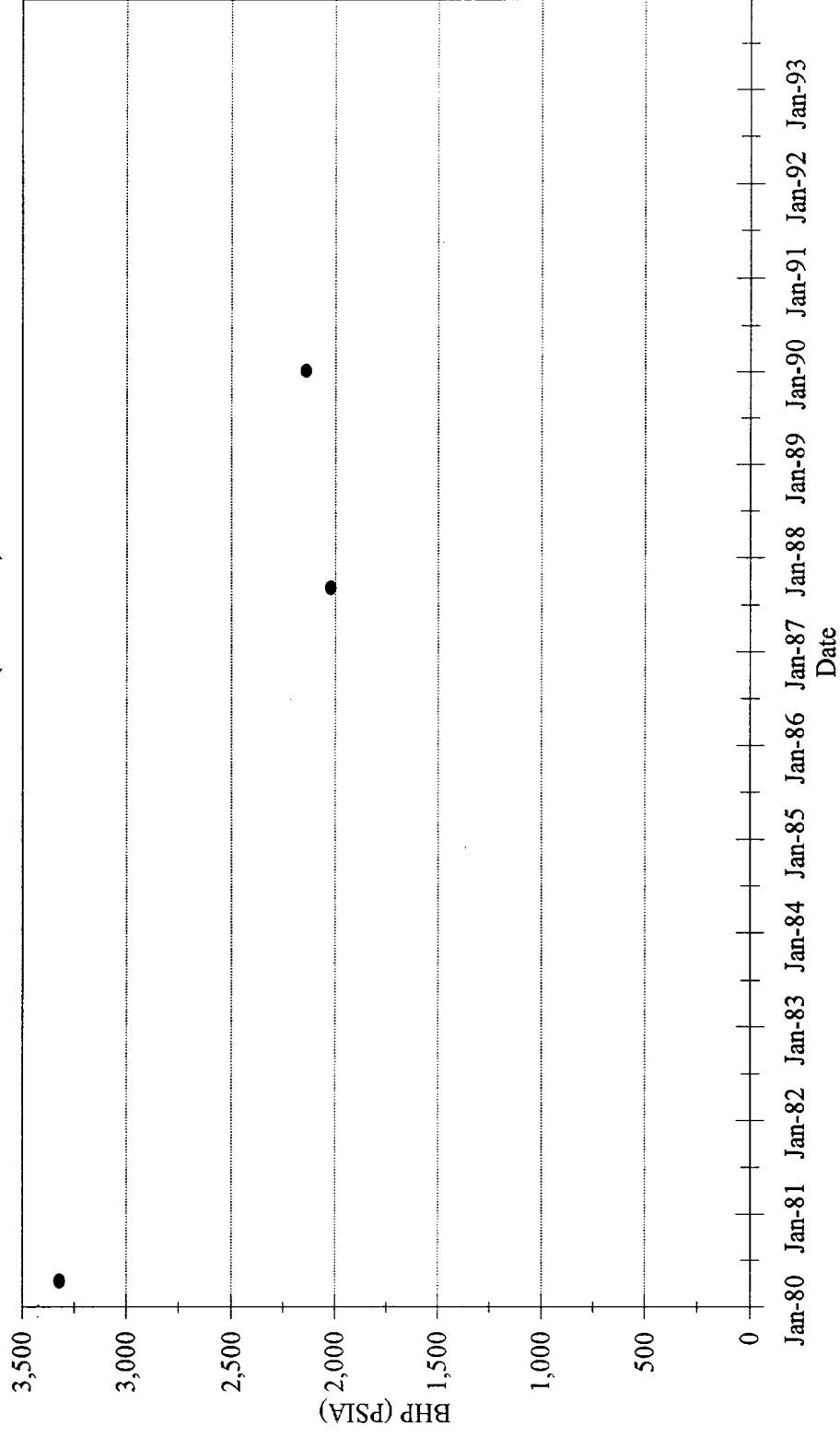
James Ranch Unit # 1
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 30E 36O

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Dec-90		25,666,417
Jan-91		25,666,417
Feb-91		25,666,417
Mar-91	13,647	25,680,064
Apr-91	12,848	25,692,912
May-91	30,749	25,723,661
Jun-91	16,007	25,739,668
Jul-91	25,326	25,764,994
Aug-91		25,764,994
Sep-91		25,764,994
Oct-91	9,890	25,774,884
Nov-91	1,493	25,776,377
Dec-91		25,776,377

Gas Production Rate vs. Time
James Ranch Unit # 10
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



BHP vs. Time
James Ranch Unit # 10
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



James Ranch Unit # 10
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
23S 30E 01H

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-80		
Feb-80		
Mar-80		
Apr-80	35,472	35,472
May-80	102,043	137,515
Jun-80	100,245	237,760
Jul-80	100,500	338,260
Aug-80	97,868	436,128
Sep-80	92,973	529,101
Oct-80	93,916	623,017
Nov-80	89,013	712,030
Dec-80	91,954	803,984
Jan-81	85,871	889,855
Feb-81	77,669	967,524
Mar-81	83,956	1,051,480
Apr-81	82,683	1,134,163
May-81	83,039	1,217,202
Jun-81	78,279	1,295,481
Jul-81	111,676	1,407,157
Aug-81	79,485	1,486,642
Sep-81	73,623	1,560,265
Oct-81	78,886	1,639,151
Nov-81	75,134	1,714,285
Dec-81	75,648	1,789,933
Jan-82	74,968	1,864,901
Feb-82	68,614	1,933,515
Mar-82	76,662	2,010,177
Apr-82	72,693	2,082,870
May-82	73,689	2,156,559
Jun-82	72,134	2,228,693
Jul-82	71,668	2,300,361
Aug-82	70,872	2,371,233
Sep-82	65,789	2,437,022
Oct-82	64,920	2,501,942
Nov-82	68,056	2,569,998
Dec-82	69,975	2,639,973

James Ranch Unit # 10
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
23S 30E 01H

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-83	67,657	2,707,630
Feb-83	60,860	2,768,490
Mar-83	67,635	2,836,125
Apr-83	64,108	2,900,233
May-83	56,558	2,956,791
Jun-83	62,613	3,019,404
Jul-83	61,820	3,081,224
Aug-83	60,513	3,141,737
Sep-83	58,316	3,200,053
Oct-83	58,247	3,258,300
Nov-83	55,827	3,314,127
Dec-83	46,999	3,361,126
Jan-84	56,965	3,418,091
Feb-84	52,019	3,470,110
Mar-84	51,525	3,521,635
Apr-84	49,808	3,571,443
May-84	51,152	3,622,595
Jun-84	45,830	3,668,425
Jul-84	49,461	3,717,886
Aug-84	49,508	3,767,394
Sep-84	40,111	3,807,505
Oct-84	53,175	3,860,680
Nov-84	45,944	3,906,624
Dec-84	46,718	3,953,342
Jan-85	45,595	3,998,937
Feb-85	37,698	4,036,635
Mar-85	42,764	4,079,399
Apr-85	27,682	4,107,081
May-85	44,856	4,151,937
Jun-85	37,756	4,189,693
Jul-85	34,523	4,224,216
Aug-85	16,699	4,240,915
Sep-85	20,711	4,261,626
Oct-85	26,487	4,288,113
Nov-85	22,266	4,310,379
Dec-85	26,020	4,336,399

James Ranch Unit # 10
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
23S 30E 01H

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-86	17,959	4,354,358
Feb-86	21,273	4,375,631
Mar-86	24,943	4,400,574
Apr-86	27,932	4,428,506
May-86	24,340	4,452,846
Jun-86	25,514	4,478,360
Jul-86	14,837	4,493,197
Aug-86	6,194	4,499,391
Sep-86	7,188	4,506,579
Oct-86	5,581	4,512,160
Nov-86	4,995	4,517,155
Dec-86	5,305	4,522,460
Jan-87	5,427	4,527,887
Feb-87	4,575	4,532,462
Mar-87	2,271	4,534,733
Apr-87		4,534,733
May-87		4,534,733
Jun-87		4,534,733
Jul-87		4,534,733
Aug-87		4,534,733
Sep-87		4,534,733
Oct-87	3,770	4,538,503
Nov-87	28,531	4,567,034
Dec-87	24,130	4,591,164
Jan-88	29,987	4,621,151
Feb-88	22,119	4,643,270
Mar-88	19,574	4,662,844
Apr-88	1,610	4,664,454
May-88	799	4,665,253
Jun-88	882	4,666,135
Jul-88	1,534	4,667,669
Aug-88		4,667,669
Sep-88		4,667,669
Oct-88		4,667,669
Nov-88		4,667,669
Dec-88		4,667,669

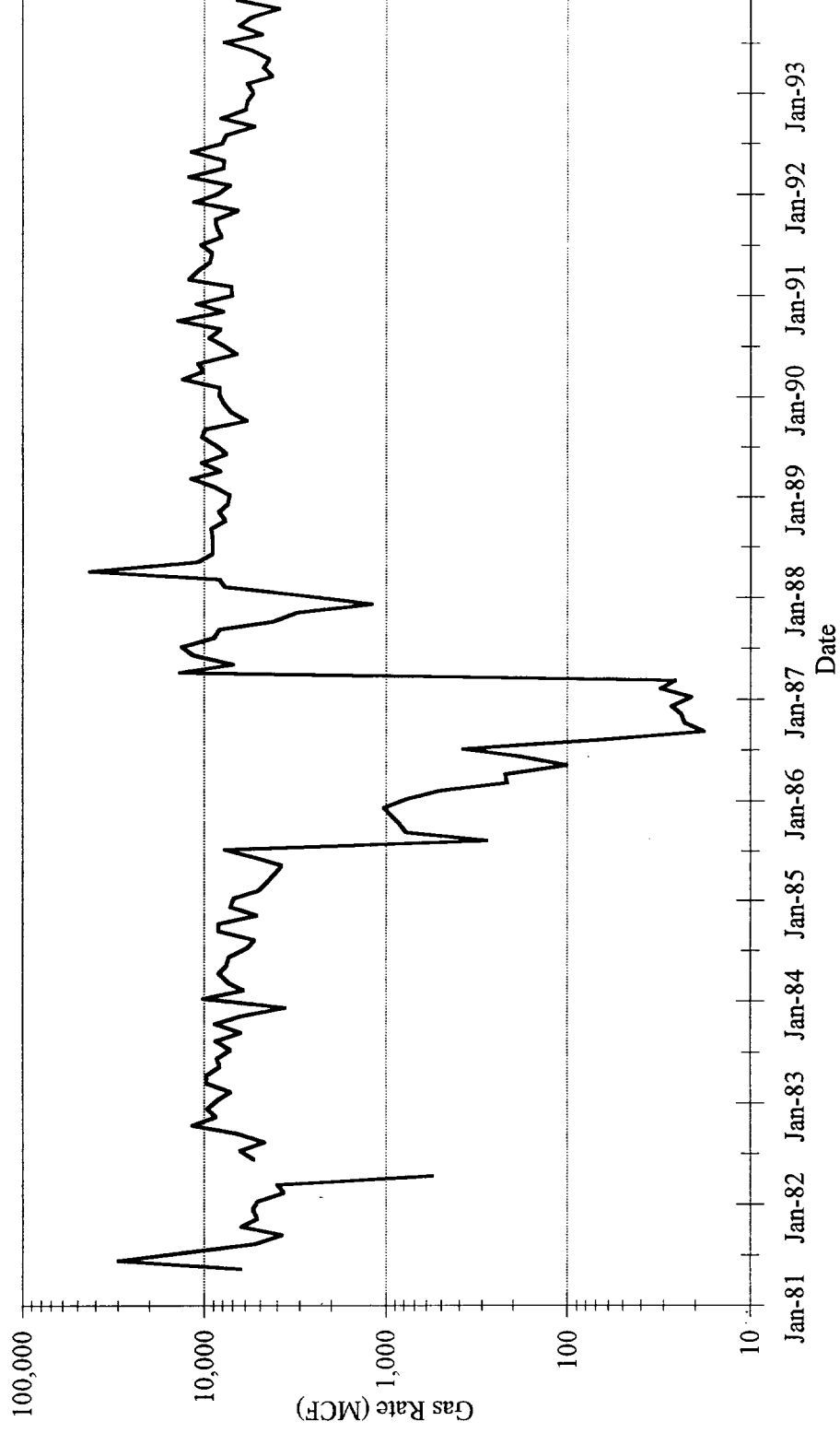
James Ranch Unit # 10
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
23S 30E 01H

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-89		4,667,669
Feb-89		4,667,669
Mar-89		4,667,669
Apr-89		4,667,669
May-89		4,667,669
Jun-89		4,667,669
Jul-89		4,667,669
Aug-89		4,667,669
Sep-89	3	4,667,672
Oct-89		4,667,672
Nov-89		4,667,672
Dec-89		4,667,672
Jan-90		4,667,672
Feb-90		4,667,672
Mar-90		4,667,672
Apr-90		4,667,672
May-90		4,667,672
Jun-90		4,667,672
Jul-90		4,667,672
Aug-90		4,667,672
Sep-90		4,667,672
Oct-90		4,667,672
Nov-90		4,667,672
Dec-90		4,667,672
Jan-91		4,667,672
Feb-91		4,667,672
Mar-91	35,687	4,703,359
Apr-91	41,524	4,744,883
May-91	32,148	4,777,031
Jun-91	27,260	4,804,291
Jul-91	39,218	4,843,509
Aug-91	78	4,843,587
Sep-91		4,843,587
Oct-91	31,483	4,875,070
Nov-91	27,438	4,902,508
Dec-91	47,160	4,949,668

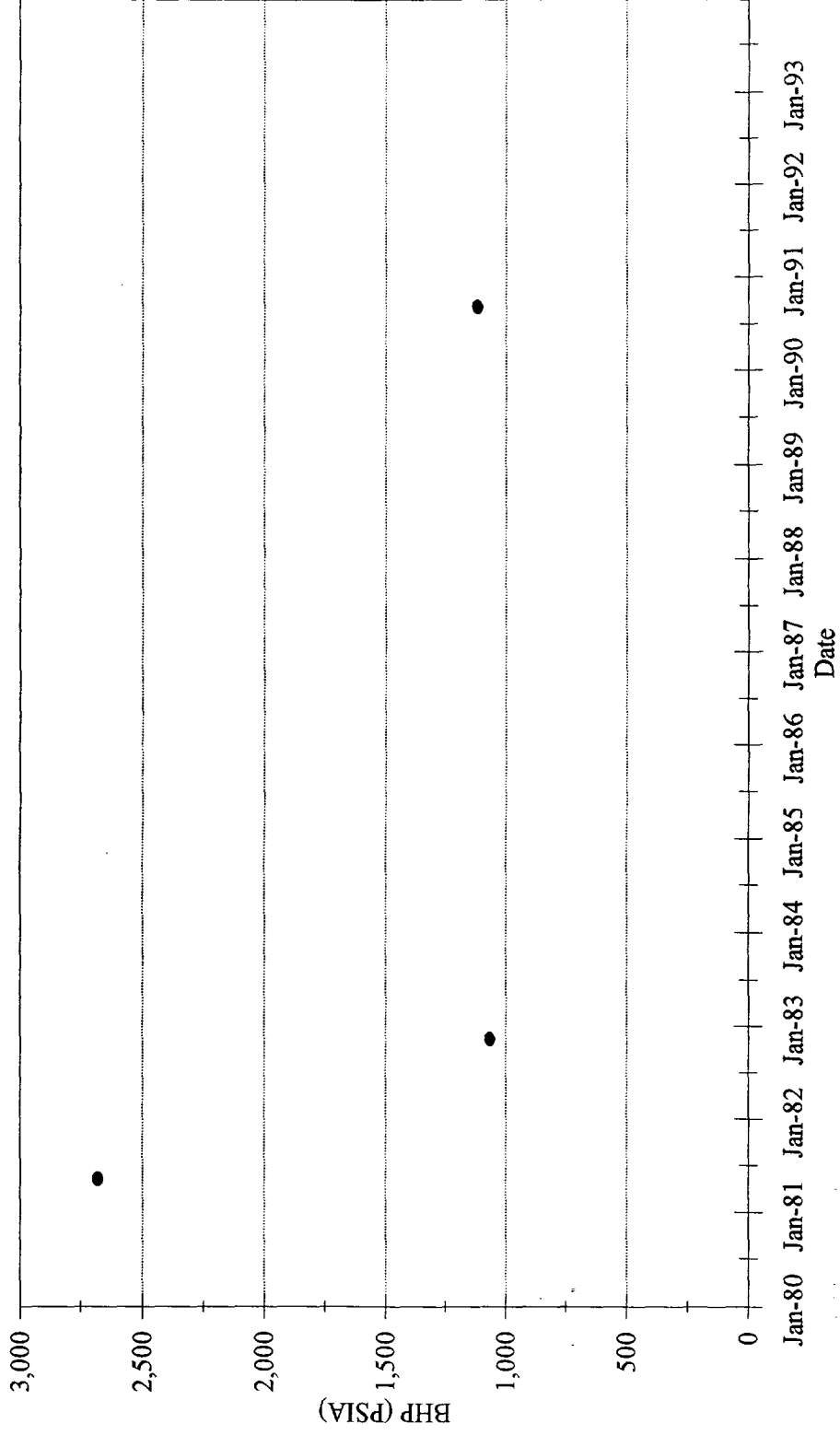
James Ranch Unit # 10
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
23S 30E 01H

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-92	41,438	4,991,106
Feb-92	40,411	5,031,517
Mar-92	50,214	5,081,731
Apr-92	40,801	5,122,532
May-92	37,072	5,159,604
Jun-92	43,395	5,202,999
Jul-92	38,645	5,241,644
Aug-92	40,265	5,281,909
Sep-92	37,189	5,319,098
Oct-92	40,844	5,359,942
Nov-92	37,924	5,397,866
Dec-92	43,285	5,441,151
Jan-93	34,029	5,475,180
Feb-93	36,467	5,511,647
Mar-93	17,541	5,529,188
Apr-93	5,701	5,534,889
May-93	3,687	5,538,576
Jun-93	8,061	5,546,637
Jul-93	34,139	5,580,776
Aug-93	38,359	5,619,135
Sep-93	41,658	5,660,793
Oct-93	42,870	5,703,663
Nov-93	42,792	5,746,455
Dec-93	73,493	5,819,948

Gas Production Rate vs. Time
James Ranch Unit # 11
Enron Oil & Gas Co
Los Medanos (Atoka) PA



BHP vs. Time
James Ranch Unit # 11
Enron Oil & Gas Co
Los Medanos (Atoka) PA



James Ranch Unit # 11
Los Medanos (Atoka) PA
Enron Oil & Gas Co
22S 30E 36E

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-81		
Feb-81		
Mar-81		
Apr-81		
May-81	6,343	6,343
Jun-81	29,840	36,183
Jul-81	11,941	48,124
Aug-81	5,296	53,420
Sep-81	3,741	57,161
Oct-81	6,310	63,471
Nov-81	5,120	68,591
Dec-81	5,450	74,041
Jan-82	5,112	79,153
Feb-82	3,687	82,840
Mar-82	4,002	86,842
Apr-82	557	87,399
May-82		87,399
Jun-82	5,381	92,780
Jul-82	6,401	99,181
Aug-82	4,709	103,890
Sep-82	6,779	110,669
Oct-82	11,673	122,342
Nov-82	8,762	131,104
Dec-82	9,687	140,791
Jan-83	8,488	149,279
Feb-83	7,188	156,467
Mar-83	9,727	166,194
Apr-83	9,699	175,893
May-83	8,256	184,149
Jun-83	8,622	192,771
Jul-83	7,266	200,037
Aug-83	8,751	208,788
Sep-83	6,346	215,134
Oct-83	8,777	223,911
Nov-83	6,423	230,334
Dec-83	3,618	233,952

James Ranch Unit # 11
Los Medanos (Atoka) PA
Enron Oil & Gas Co
22S 30E 36E

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-84	10,158	244,110
Feb-84	6,167	250,277
Mar-84	7,424	257,701
Apr-84	8,416	266,117
May-84	7,627	273,744
Jun-84	7,369	281,113
Jul-84	5,912	287,025
Aug-84	5,324	292,349
Sep-84	8,388	300,737
Oct-84	8,390	309,127
Nov-84	5,184	314,311
Dec-84	7,208	321,519
Jan-85	6,917	328,436
Feb-85	5,069	333,505
Mar-85	4,597	338,102
Apr-85	4,121	342,223
May-85	3,749	345,972
Jun-85	5,281	351,253
Jul-85	7,717	358,970
Aug-85	280	359,250
Sep-85	786	360,036
Oct-85	847	360,883
Nov-85	940	361,823
Dec-85	1,035	362,858
Jan-86	776	363,634
Feb-86	503	364,137
Mar-86	215	364,352
Apr-86	223	364,575
May-86	101	364,676
Jun-86	180	364,856
Jul-86	378	365,234
Aug-86	64	365,298
Sep-86	18	365,316
Oct-86	23	365,339
Nov-86	24	365,363
Dec-86	27	365,390

James Ranch Unit # 11
Los Medanos (Atoka) PA
Enron Oil & Gas Co
22S 30E 36E

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-87	21	365,411
Feb-87	31	365,442
Mar-87	26	365,468
Apr-87	13,681	379,149
May-87	6,989	386,138
Jun-87	11,663	397,801
Jul-87	13,332	411,133
Aug-87	8,951	420,084
Sep-87	8,350	428,434
Oct-87	4,217	432,651
Nov-87	3,103	435,754
Dec-87	1,198	436,952
Jan-88	2,943	439,895
Feb-88	7,773	447,668
Mar-88	8,321	455,989
Apr-88	43,075	499,064
May-88	11,050	510,114
Jun-88	9,181	519,295
Jul-88	9,109	528,404
Aug-88	9,109	537,513
Sep-88	9,315	546,828
Oct-88	7,739	554,567
Nov-88	8,436	563,003
Dec-88	7,497	570,500
Jan-89	7,320	577,820
Feb-89	8,860	586,680
Mar-89	11,905	598,585
Apr-89	8,227	606,812
May-89	10,377	617,189
Jun-89	7,610	624,799
Jul-89	8,696	633,495
Aug-89	10,359	643,854
Sep-89	9,982	653,836
Oct-89	5,886	659,722
Nov-89	7,176	666,898
Dec-89	7,833	674,731

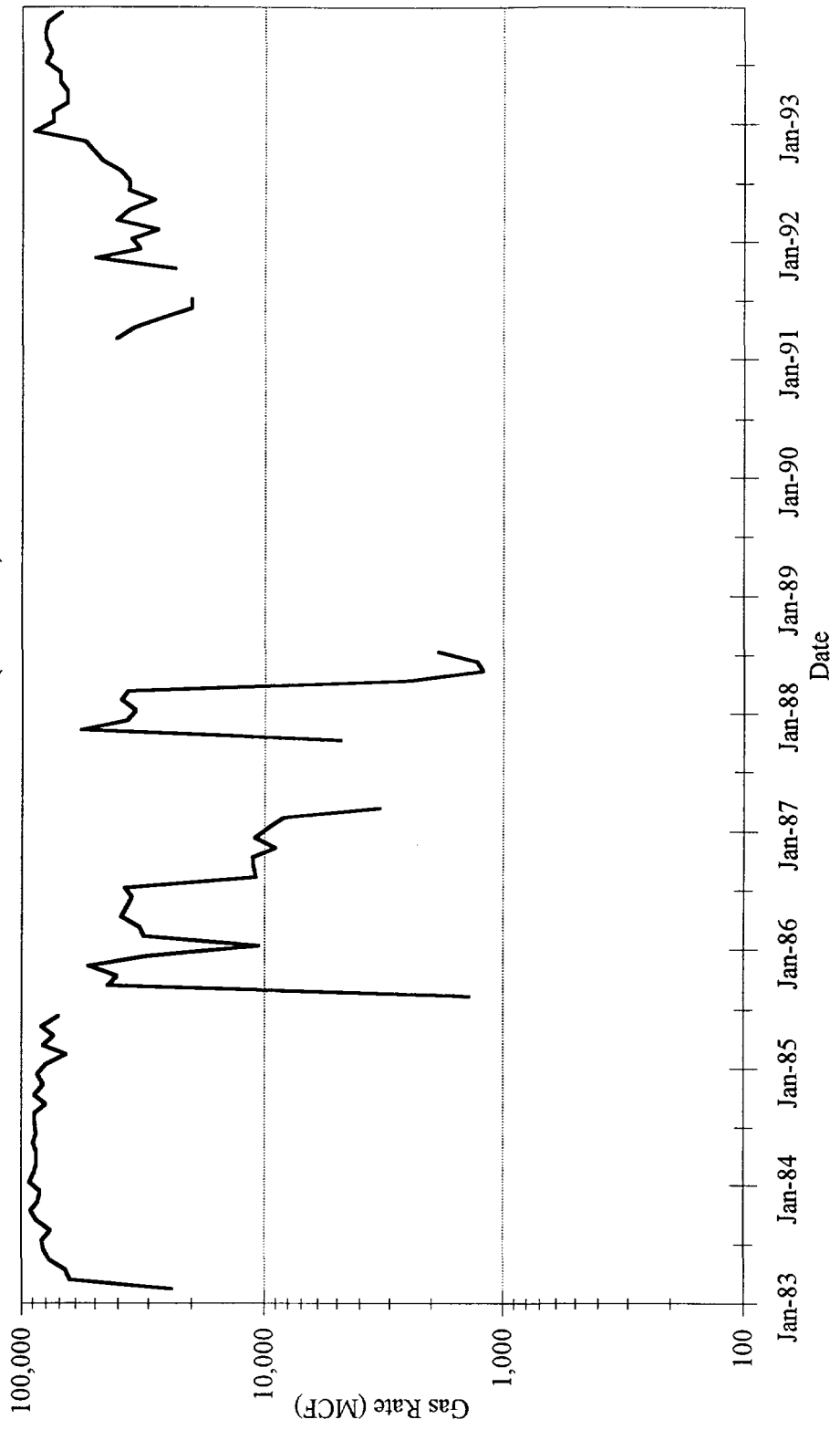
James Ranch Unit # 11
Los Medanos (Atoka) PA
Enron Oil & Gas Co
22S 30E 36E

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-90	8,318	683,049
Feb-90	8,291	691,340
Mar-90	13,143	704,483
Apr-90	10,084	714,567
May-90	10,969	725,536
Jun-90	6,733	732,269
Jul-90	7,774	740,043
Aug-90	9,410	749,453
Sep-90	8,234	757,687
Oct-90	14,004	771,691
Nov-90	7,905	779,596
Dec-90	11,064	790,660
Jan-91	7,061	797,721
Feb-91	7,137	804,858
Mar-91	12,319	817,177
Apr-91	10,917	828,094
May-91	9,342	837,436
Jun-91	9,126	846,562
Jul-91	10,535	857,097
Aug-91	8,107	865,204
Sep-91	8,595	873,799
Oct-91	8,778	882,577
Nov-91	6,591	889,168
Dec-91	11,519	900,687
Jan-92	8,597	909,284
Feb-92	7,278	916,562
Mar-92	12,229	928,791
Apr-92	7,979	936,770
May-92	7,845	944,615
Jun-92	11,922	956,537
Jul-92	8,055	964,592
Aug-92	7,638	972,230
Sep-92	5,326	977,556
Oct-92	8,139	985,695
Nov-92	5,995	991,690
Dec-92	5,864	997,554

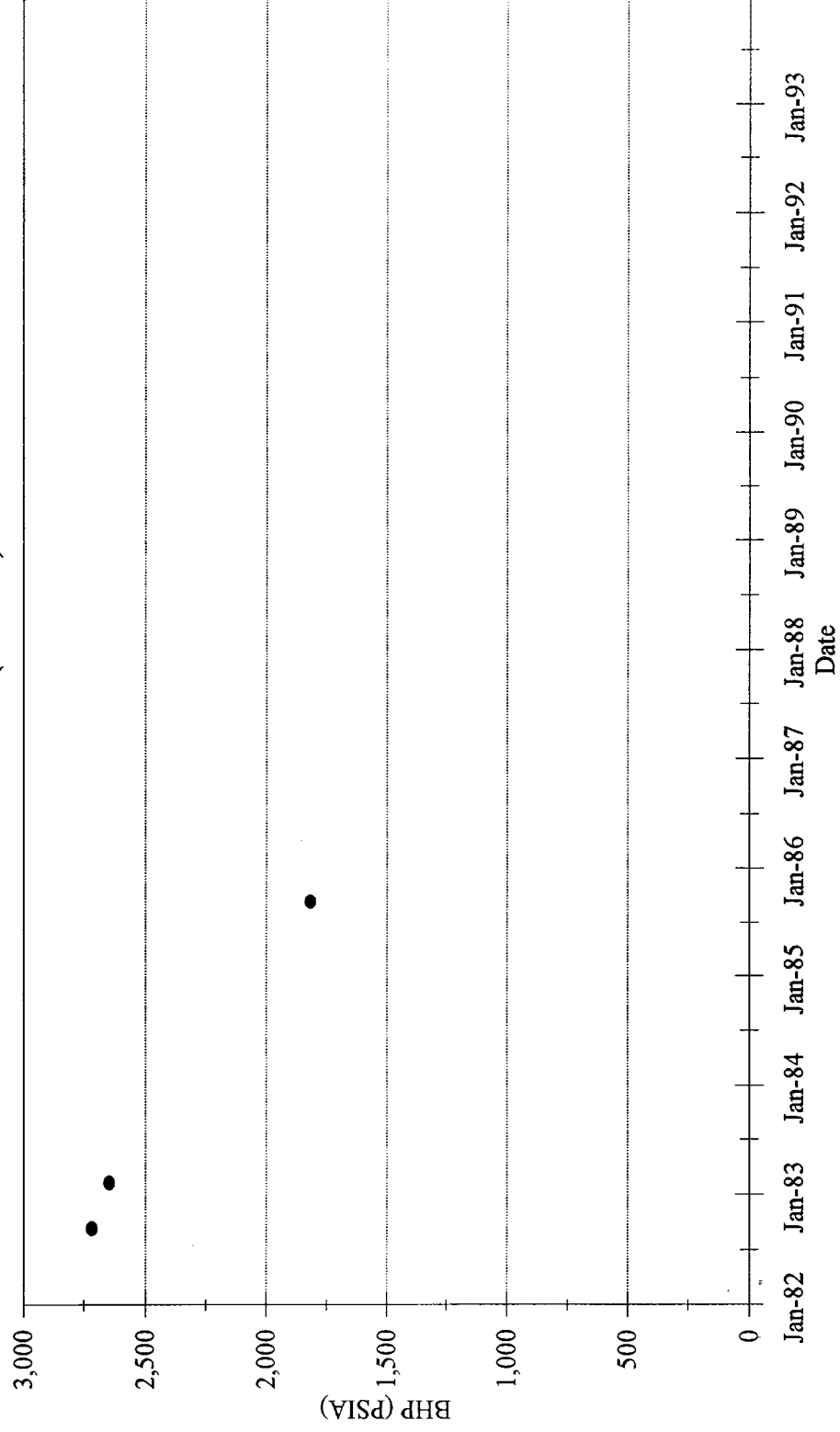
James Ranch Unit # 11
Los Medanos (Atoka) PA
Enron Oil & Gas Co
22S 30E 36E

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-93	5,391	1,002,945
Feb-93	5,845	1,008,790
Mar-93	4,249	1,013,039
Apr-93	4,788	1,017,827
May-93	4,428	1,022,255
Jun-93	5,497	1,027,752
Jul-93	7,814	1,035,566
Aug-93	4,846	1,040,412
Sep-93	6,535	1,046,947
Oct-93	5,560	1,052,507
Nov-93	3,891	1,056,398
Dec-93	6,661	1,063,059

Gas Production Rate vs. Time
James Ranch Unit # 13
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



BHP vs. Time
James Ranch Unit # 13
Bass Enterprises Production Co.
Los Medanos (Atoka) PA



James Ranch Unit # 13
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 31E 31L

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-83		
Feb-83	23,970	23,970
Mar-83	63,373	87,343
Apr-83	66,425	153,768
May-83	76,613	230,381
Jun-83	81,409	311,790
Jul-83	82,734	394,524
Aug-83	76,421	470,945
Sep-83	86,647	557,592
Oct-83	91,799	649,391
Nov-83	85,720	735,111
Dec-83	84,334	819,445
Jan-84	93,266	912,711
Feb-84	88,828	1,001,539
Mar-84	86,519	1,088,058
Apr-84	86,971	1,175,029
May-84	89,612	1,264,641
Jun-84	87,216	1,351,857
Jul-84	88,357	1,440,214
Aug-84	88,778	1,528,992
Sep-84	80,027	1,609,019
Oct-84	89,055	1,698,074
Nov-84	82,072	1,780,146
Dec-84	86,411	1,866,557
Jan-85	80,505	1,947,062
Feb-85	65,972	2,013,034
Mar-85	81,783	2,094,817
Apr-85	74,131	2,168,948
May-85	83,292	2,252,240
Jun-85	70,727	2,322,967
Jul-85		2,322,967
Aug-85	1,391	2,324,358
Sep-85	43,919	2,368,277
Oct-85	40,550	2,408,827
Nov-85	53,275	2,462,102
Dec-85	31,120	2,493,222

James Ranch Unit # 13
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 31E 31L

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-86	10,583	2,503,805
Feb-86	31,505	2,535,310
Mar-86	32,865	2,568,175
Apr-86	38,991	2,607,166
May-86	36,926	2,644,092
Jun-86	35,085	2,679,177
Jul-86	37,753	2,716,930
Aug-86	10,837	2,727,767
Sep-86	11,113	2,738,880
Oct-86	11,235	2,750,115
Nov-86	8,979	2,759,094
Dec-86	10,951	2,770,045
Jan-87	9,701	2,779,746
Feb-87	8,374	2,788,120
Mar-87	3,305	2,791,425
Apr-87		2,791,425
May-87		2,791,425
Jun-87		2,791,425
Jul-87		2,791,425
Aug-87		2,791,425
Sep-87		2,791,425
Oct-87	4,824	2,796,249
Nov-87	56,786	2,853,035
Dec-87	36,952	2,889,987
Jan-88	33,926	2,923,913
Feb-88	38,970	2,962,883
Mar-88	36,552	2,999,435
Apr-88	2,518	3,001,953
May-88	1,219	3,003,172
Jun-88	1,297	3,004,469
Jul-88	1,872	3,006,341
Aug-88		3,006,341
Sep-88		3,006,341
Oct-88		3,006,341
Nov-88		3,006,341
Dec-88		3,006,341

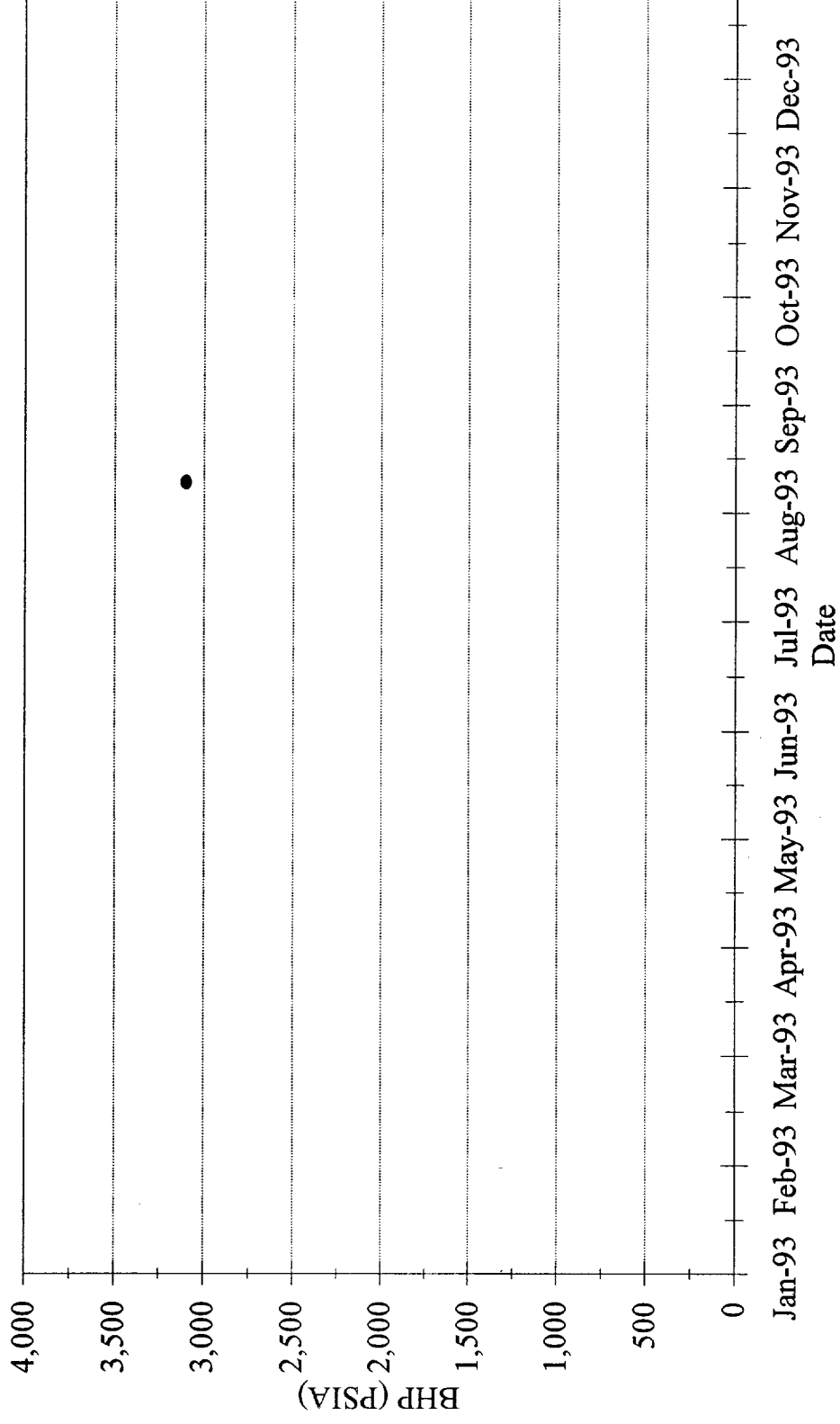
James Ranch Unit # 13
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 31E 31L

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-89		3,006,341
Feb-89		3,006,341
Mar-89		3,006,341
Apr-89		3,006,341
May-89		3,006,341
Jun-89		3,006,341
Jul-89		3,006,341
Aug-89		3,006,341
Sep-89		3,006,341
Oct-89		3,006,341
Nov-89		3,006,341
Dec-89		3,006,341
Jan-90		3,006,341
Feb-90		3,006,341
Mar-90		3,006,341
Apr-90		3,006,341
May-90		3,006,341
Jun-90		3,006,341
Jul-90		3,006,341
Aug-90		3,006,341
Sep-90		3,006,341
Oct-90		3,006,341
Nov-90		3,006,341
Dec-90		3,006,341
Jan-91		3,006,341
Feb-91		3,006,341
Mar-91	40,888	3,047,229
Apr-91	34,513	3,081,742
May-91	26,441	3,108,183
Jun-91	20,034	3,128,217
Jul-91	20,043	3,148,260
Aug-91		3,148,260
Sep-91		3,148,260
Oct-91	23,393	3,171,653
Nov-91	49,658	3,221,311
Dec-91	32,782	3,254,093

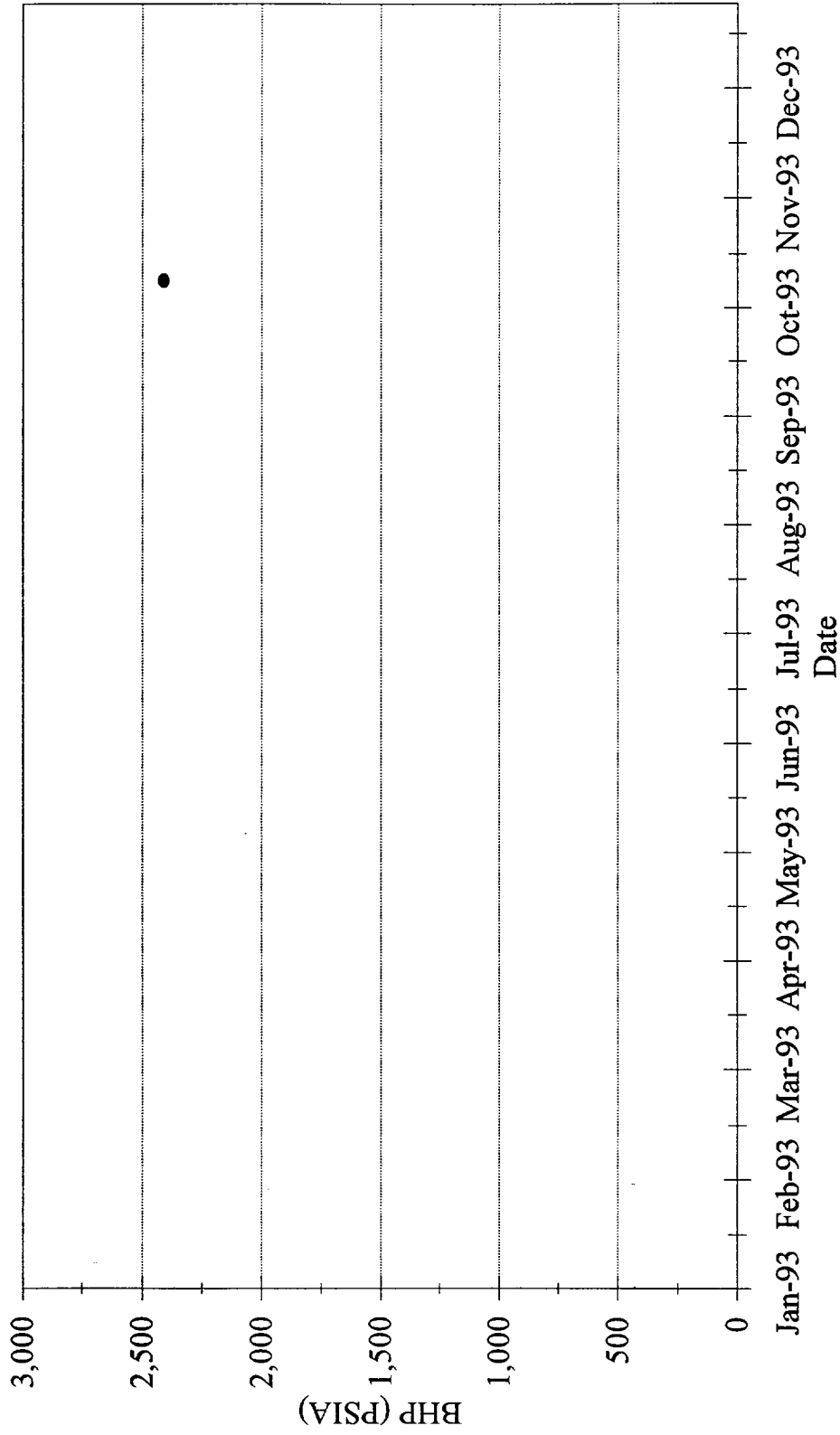
James Ranch Unit # 13
Los Medanos (Atoka) PA
Bass Enterprises Prod Co
22S 31E 31L

Date	Monthly Gas (MCF)	Cumulative Gas (MCF)
Jan-92	35,364	3,289,457
Feb-92	27,618	3,317,075
Mar-92	40,929	3,358,004
Apr-92	36,312	3,394,316
May-92	28,437	3,422,753
Jun-92	36,476	3,459,229
Jul-92	36,131	3,495,360
Aug-92	39,622	3,534,982
Sep-92	46,840	3,581,822
Oct-92	51,126	3,632,948
Nov-92	55,056	3,688,004
Dec-92	89,400	3,777,404
Jan-93	74,428	3,851,832
Feb-93	75,588	3,927,420
Mar-93	65,776	3,993,196
Apr-93	65,613	4,058,809
May-93	70,089	4,128,898
Jun-93	69,935	4,198,833
Jul-93	80,477	4,279,310
Aug-93	76,256	4,355,566
Sep-93	79,565	4,435,131
Oct-93	81,057	4,516,188
Nov-93	78,698	4,594,886
Dec-93	69,192	4,664,078

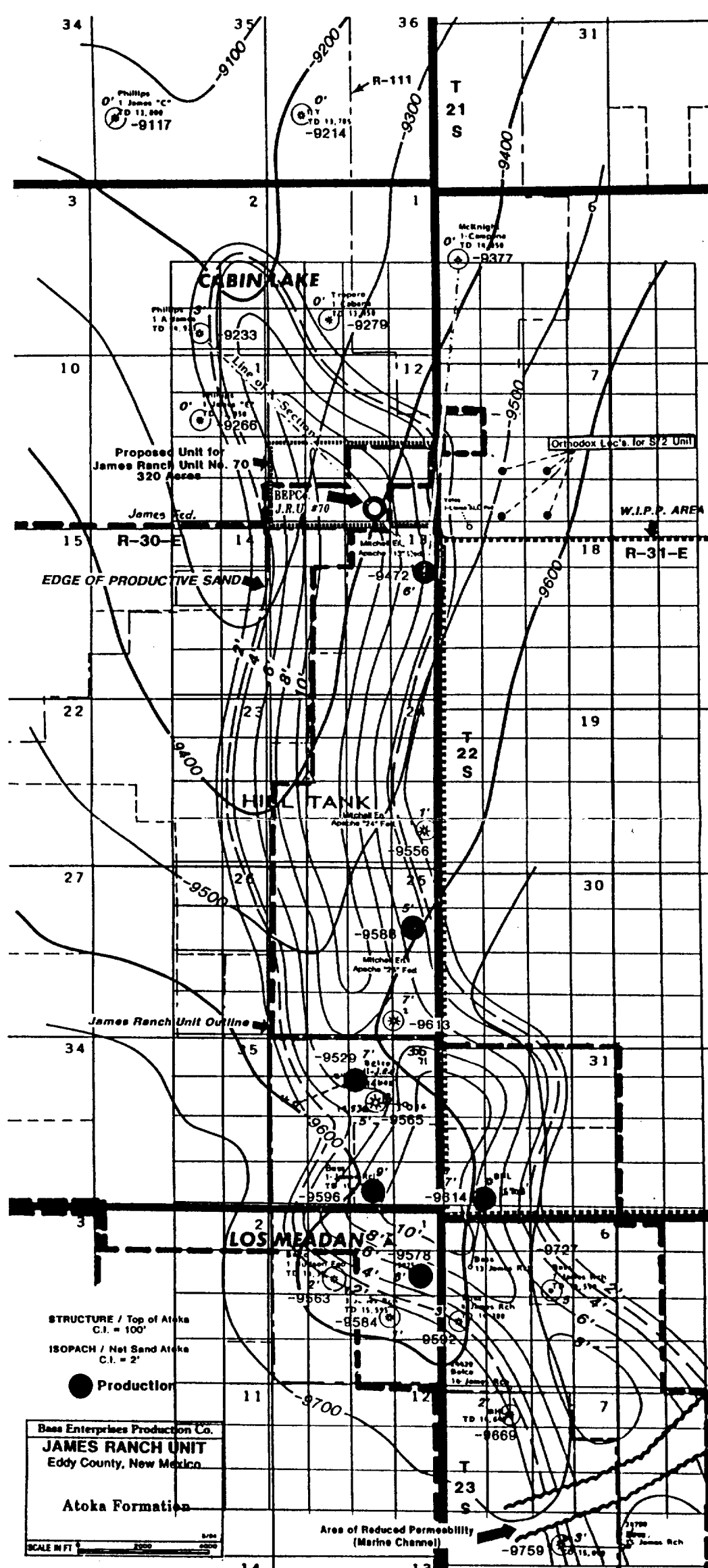
BHP vs. Time
Apache "13" Fed. # 1
Mitchell
Los Medanos (Atoka) PA



BHP vs. Time
Apache "25" Fed. # 1
Mitchell
Los Medanos (Atoka) PA



BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11019 Exhibit No. 7
Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994



INPUT DATA SHEET
Los Medanos (Atoka) PA
Reservoir Simulation Study

Model Type: 3-D 1 Phase
Grid Orientation: 12 x 29 x 1
Grid Dimension: 1320 feet by 1320 feet in each grid cell
Porosity: 13% - 11.7%
Initial Water Saturation: 19%
Net Thickness: From Isopach Map
Permeability:

		<u>X</u>		<u>Y</u>		<u>Z</u>	
14 md	Cells	1	12	1	29 10	1	1
4 md	Cells	1	12	10	14	1	1
10 md	Cells	1	12	15	29	1	1

Gas Gravity: 0.63
Reservoir Temperature: 190°F

Original Gas in Place: 65.1 BCF
Original Reservoir Pressure: 8426 psi

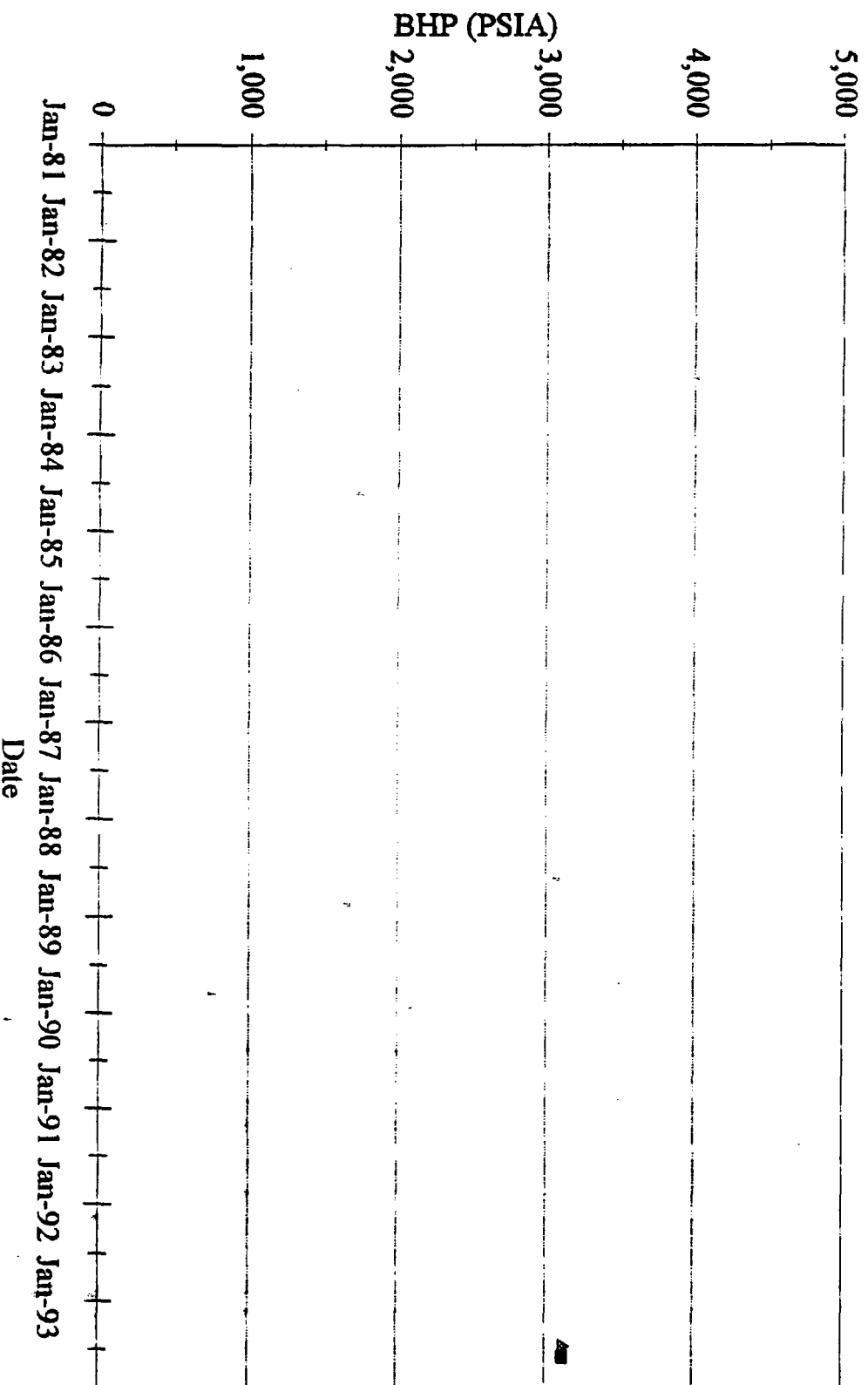
Initialization Date: March 1, 1958
Number of Producing Wells: 4

Solution Method:

Direct input of producing rates by well as per historical records. Solve for reservoir pressure in cells of producing wells and new wells drilled in 1993.

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11019 Exhibit No. 8
Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994

Apache "13" Fed # 1
 Mitchell Energy
 Los Medanos (Atoka) PA



■ Actual Pressure ▲ Simulated Pressure

BEFORE THE

OIL CONSERVATION DIVISION

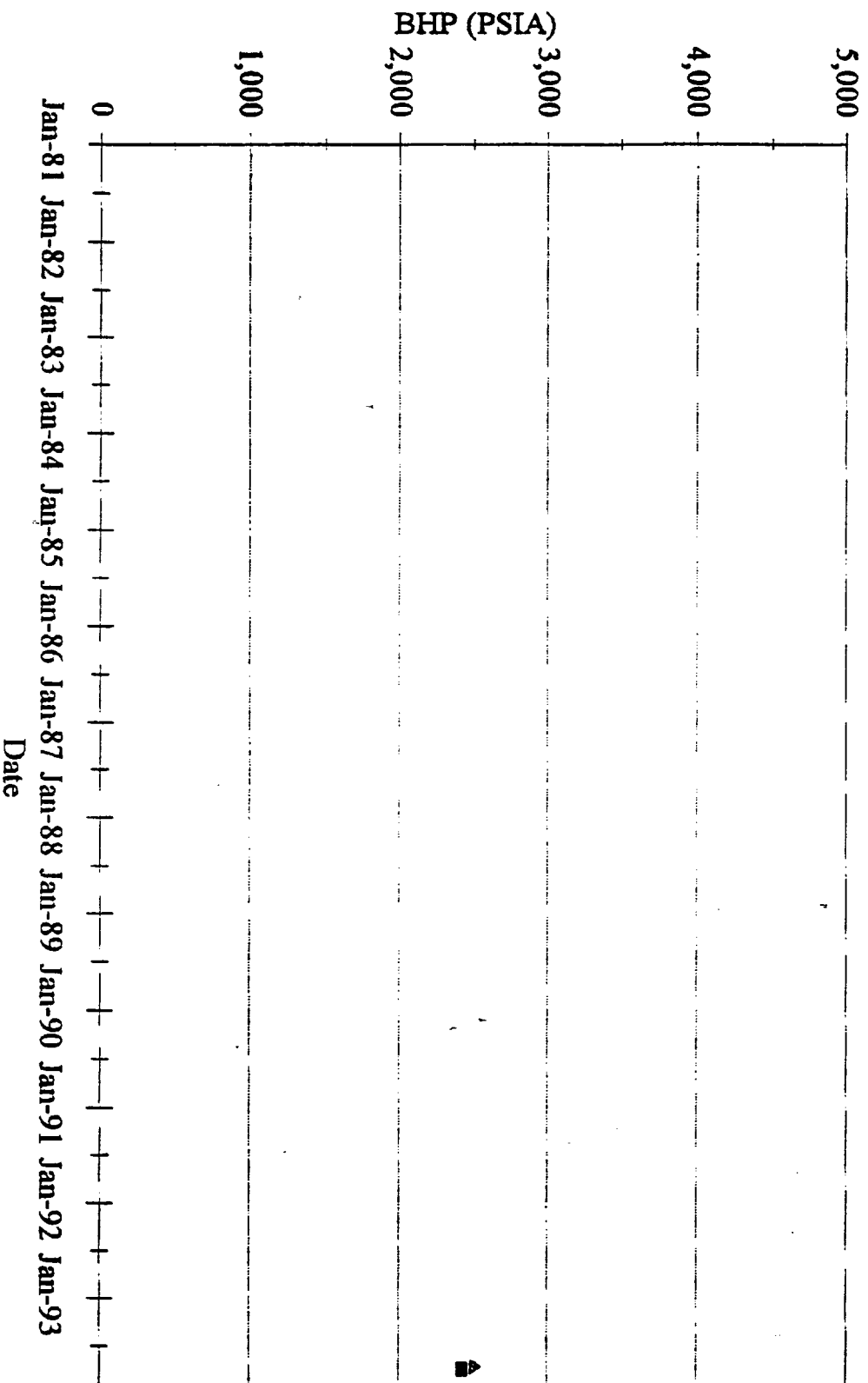
Case No. 11019 Exhibit No. 9

Submitted By:

BASS ENTERPRISES

Hearing Date: September 22, 1994

Apache "25" Fed # 1
 Mitchell Energy
 Los Medanos (Aloka) PA



■ Actual Pressure ▲ Simulated Pressure

BEFORE THE

OIL CONSERVATION DIVISION

Case No. 11019 Exhibit No.

10

Submitted By:

BASS ENTERPRISES

Hearing Date: September 22, 1994

Calculation of Proposed Penalty Allowable
Llama ALL Federal Well No. 1
Los Medanos (Atoka) Pool

Pool Rules:

The Los Medanos (Atoka) Pool is subject to Oil Conservation Division General Rule 104.C.(2)(b). It specifies 320 acre gas spacing and proration units and well locations not closer than 660 feet to the nearest side boundary nor closer than 1,980 feet to the nearest end boundary.

Since the subject well is located at an unorthodox location, the allowable should be calculated as follows:

North/South Factor (F_1)

$$F_1 = \frac{\text{Actual location with respect to south line}}{\text{Standard location distance from south line}} \times 100$$

$$F_1 = \frac{330}{660} \times 100 = 50\%$$

East/West Factor (F_2)

$$F_2 = \frac{\text{Actual location with respect to east line}}{\text{Standard location distance from east line}} \times 100$$

$$F_2 = \frac{950}{1,980} \times 100 = 48\%$$

Allowable Factor

$$\text{Allowable Factor} = \frac{F_1 + F_2}{2} = \frac{50 + 48}{2}$$

$\text{Allowable Factor} = 49\%$

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11019 Exhibit No. 11
Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994

Alternate Calculation of Proposed Penalty Allowable
Llama ALL Federal Well No. 1
Los Medanos (Atoka) Pool

Pool Rules:

The Los Medanos (Atoka) Pool is subject to Oil Conservation Division General Rule 104.C.(2)(b). It specifies 320 acre gas spacing and proration units and well locations not closer than 660 feet to the nearest side boundary nor closer than 1,980 feet to the nearest end boundary.

Since the subject well is located at an unorthodox location, the allowable should be calculated as follows:

East/West Lease Line Factor

$$\text{Allowable Factor} = \left(\frac{\text{Standard distance from lease line} - \text{Actual distance from lease line}}{\text{Standard location distance from lease line}} \right)$$

$$\text{Allowable Factor} = \frac{(1980 - 950)}{1980} \times 100$$

$\text{Allowable Factor} = 52\%$

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11019 Exhibit No. 12
Submitted By:
BASS ENTERPRISES
Hearing Date: September 22, 1994

RESERVES AND ECONOMICS

CASE		AS OF DECEMBER 1, 1994								VERTICAL WELL RES = 3.7 BCF			
% PENALTY													
						</							

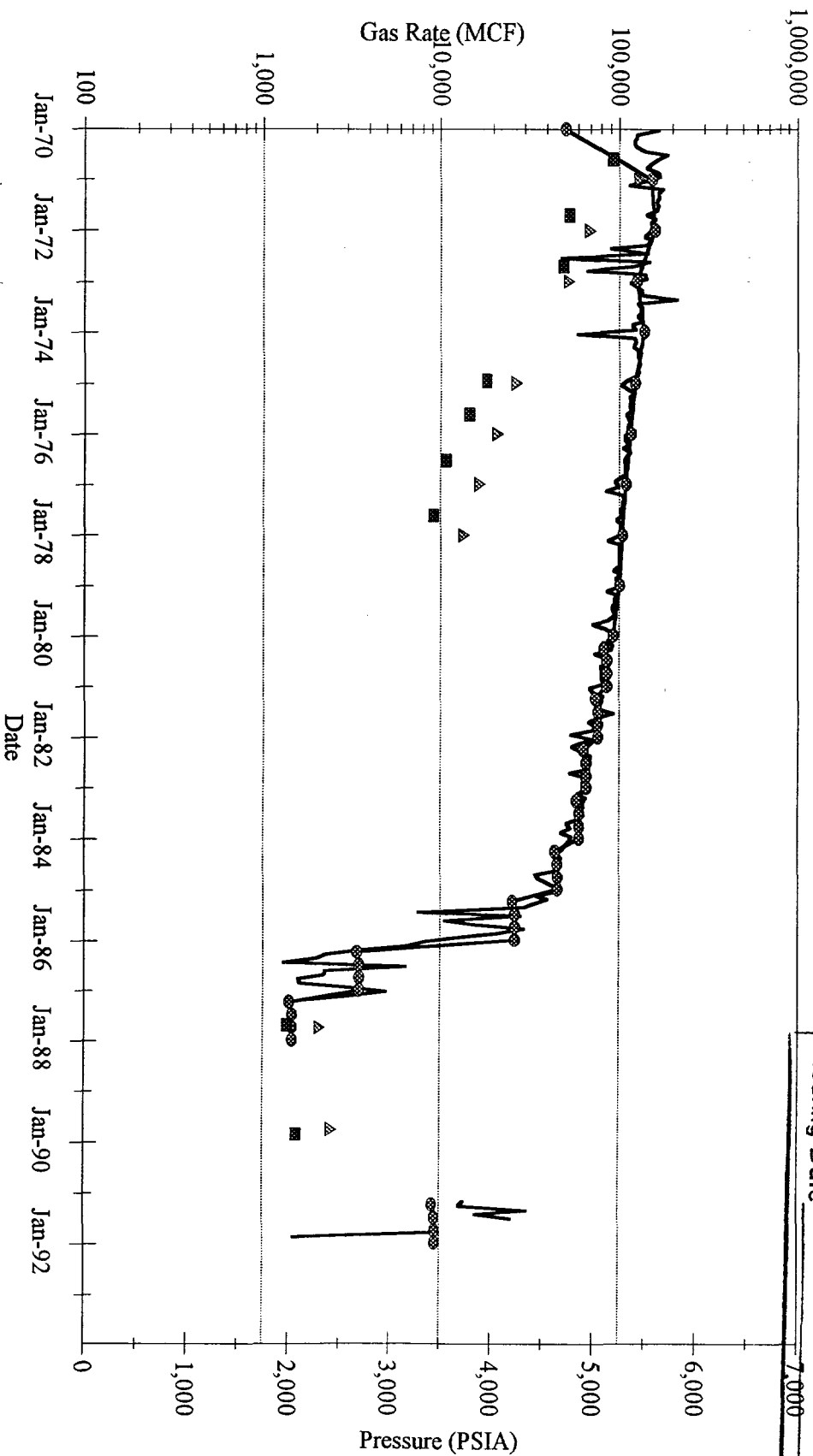
Vertical Well - 50% Penalty

Reserves = 3.7 Bcf

Redicted

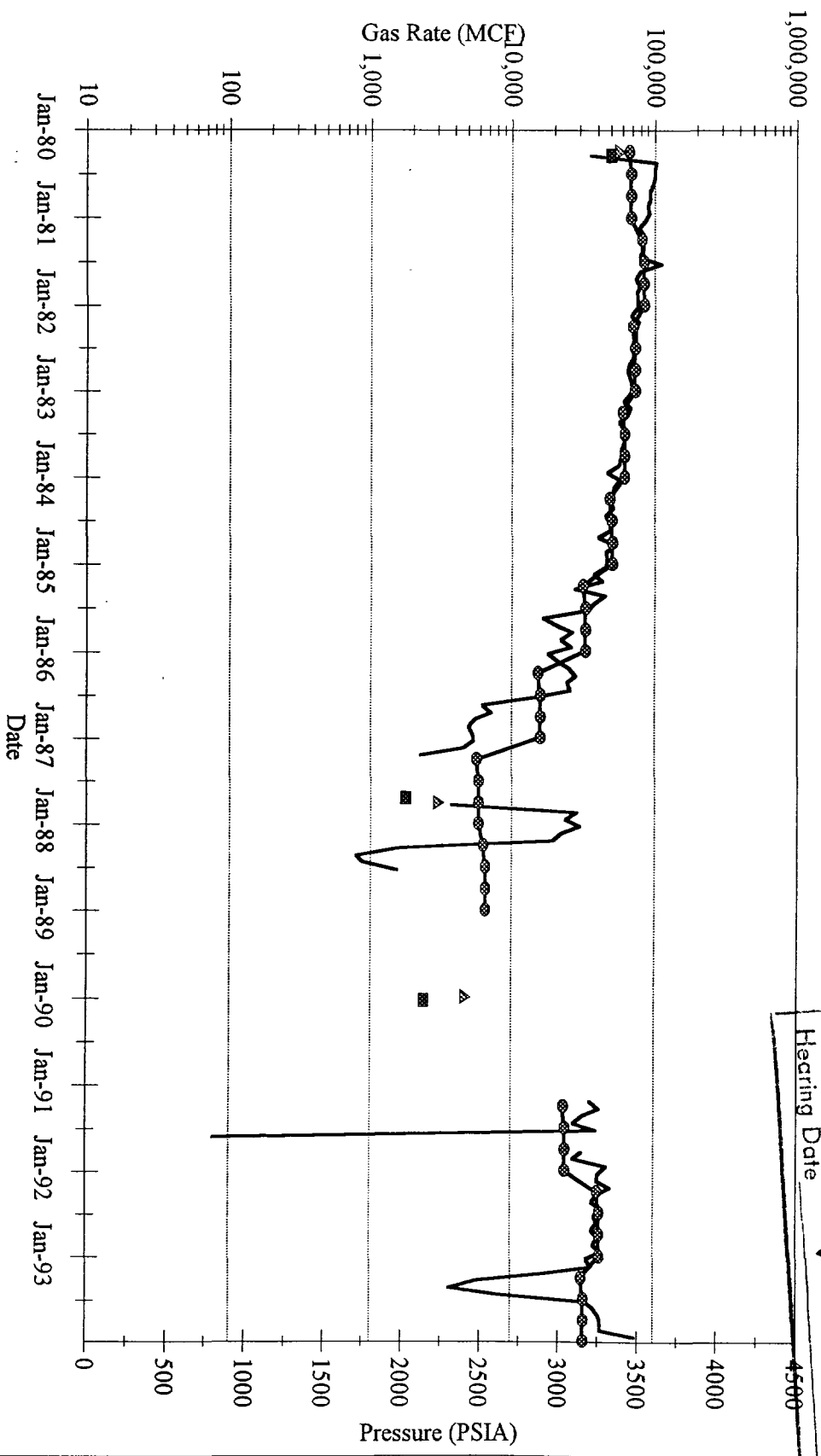
James Ranch Unit # 1
Bass Enterprises Production Co.
Los Medanos (Atoka) PA

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 11019 Exhibit No. 14-2A
Submitted by BAS
Hearing Date _____



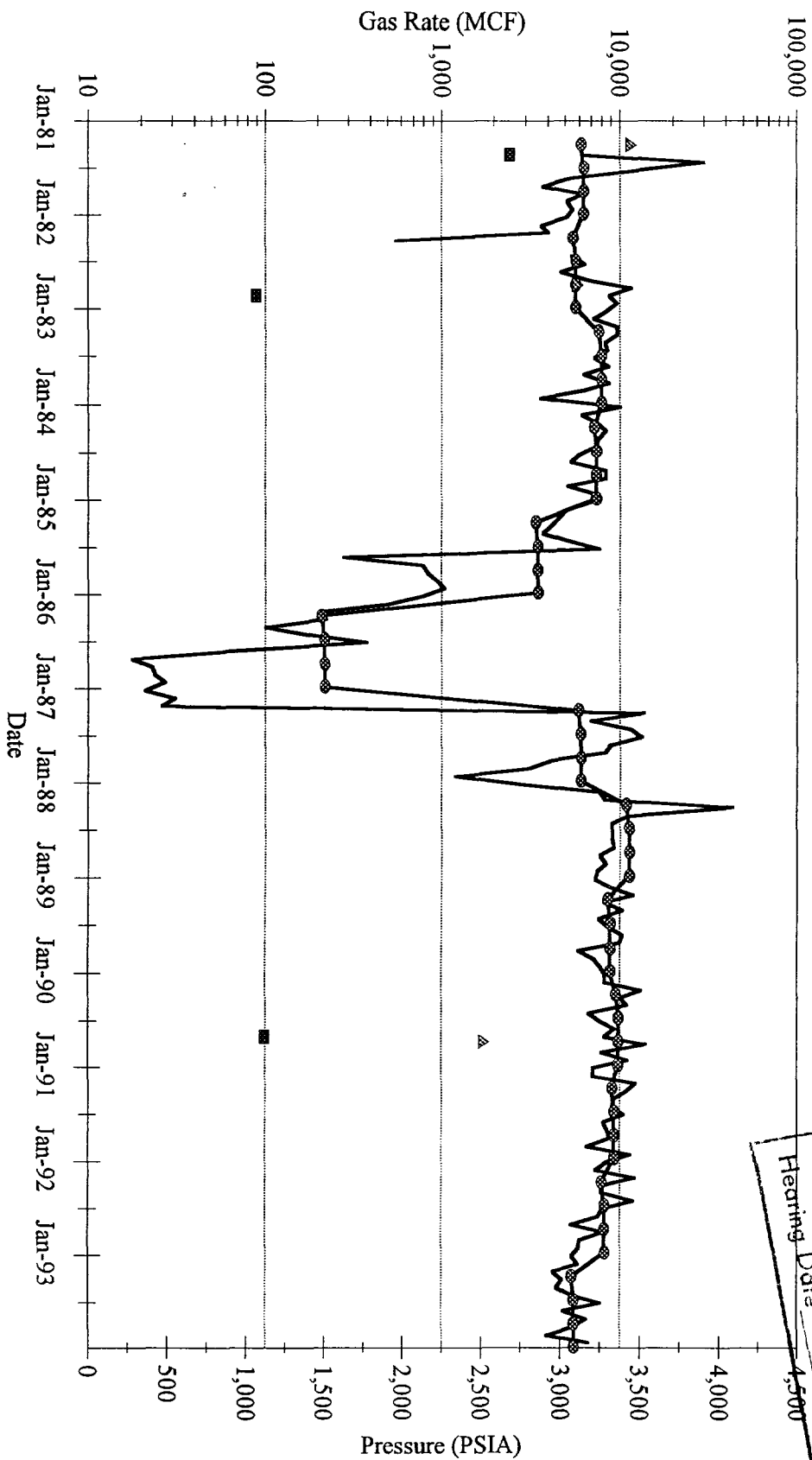
James Ranch Unit # 10
Bass Enterprises Production Co.
Los Medanos (Atoka) PA

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 11019 Exhibit No. 14-8
Submitted by BASS
Hearing Date _____



— Actual Production —●— Simulated Production ■ Actual Pressure ▲ Simulated Pressure

James Ranch Unit # 11
 Enron Oil & Gas Co.
 Los Medanos (Atoka) PA

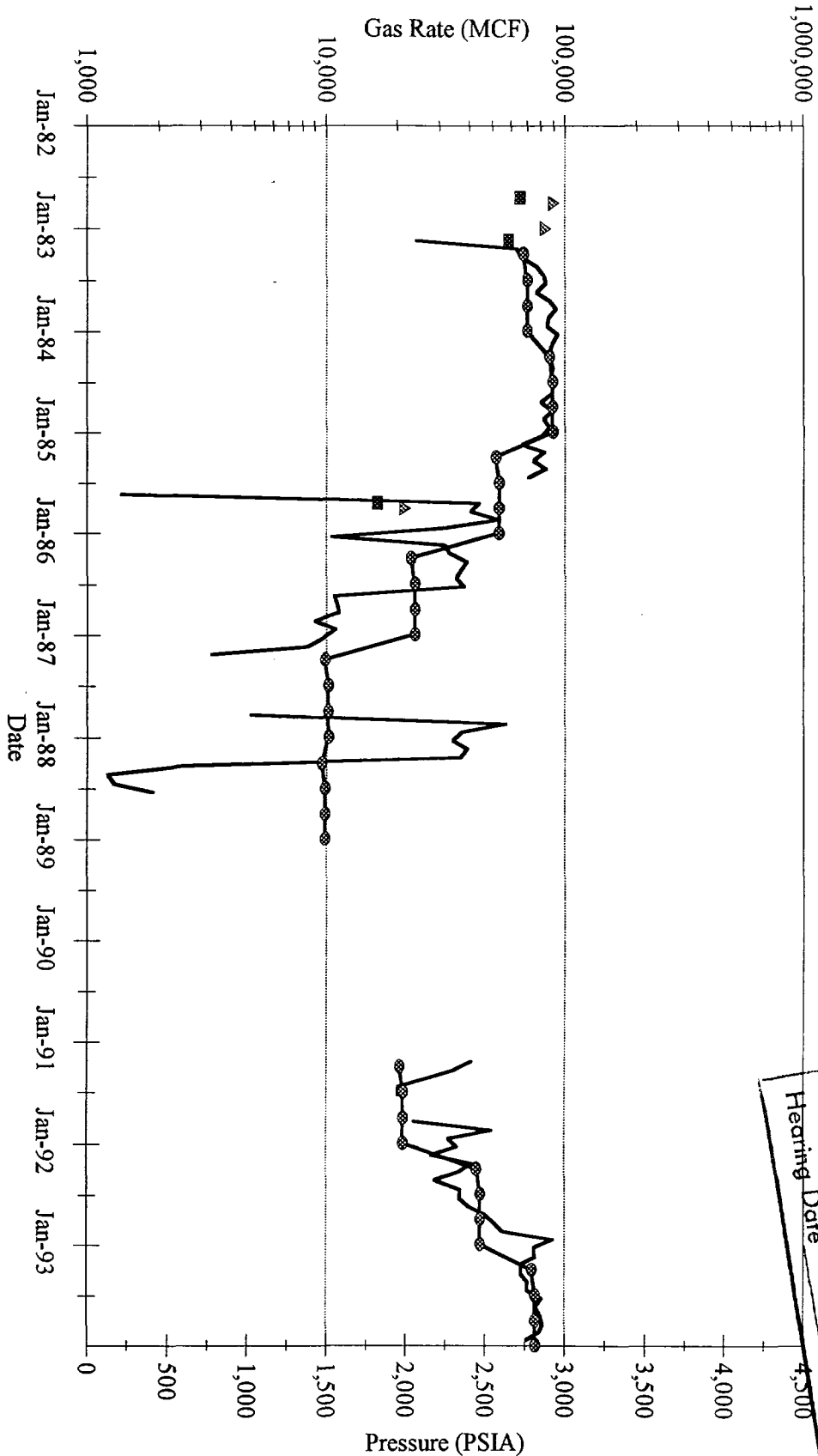


— Actual Production —●— Simulated Production ■ Actual Pressure ▲ Simulated Pressure

BEFORE THE
 OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
 Case No. 11019 Exhibit No. 14-C
 Submitted by BPS
 Hearing Date 4,500

James Ranch Unit # 13
 Bass Enterprises Production Co.
 Los Medanos (Atoka) PA

BEFORE THE
 OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
 Case No. 11019 Exhibit No. 14-D
 Submitted by BASS
 Hearing Date _____



— Actual Production —●— Simulated Production ■ Actual Pressure ▲ Simulated Pressure