

#6366

PHILLIPS PETROLEUM COMPANY
1991 APR 25 AM 9 25



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

April 22, 1991

EXPLORATION AND PRODUCTION GROUP
Permian Basin Region

East Vacuum Grayburg-San Andres Unit
1991 Plan of Development
NMOC Order Nos. R-5871, R-5897,
R-6856 and R-6856-A
Lea County, New Mexico

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Floyd O. Prando
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

4-29-91
D - Unit letter
Thx Ry

New Mexico Oil Conservation Division
Energy and Minerals Department
Attention: Mr. Roy Johnson
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Sirs:

Phillips Petroleum Company as Unit Operator, submits the following 1991 Plan of Development for your consideration and approval for the East Vacuum Grayburg-San Andres Unit, Lea County, New Mexico:

1. 1990 Activities:

The following occurred during 1990:

Drilled & Completed:	Tract 2913-Well 011 (Injection Well)	
P & A:	Tract 2913-Well 008 (Injection Well)	
Reactivation To Producing Status:	Tract 2622-Well 030	Tract 2801-Well 001
	Tract 2631-Well 022	Tract 2913-Well 001
	Tract 2658-Well 001	Tract 2913-Well 010
	Tract 2717-Well 001	Tract 2957-Well 001
	Tract 2717-Well 002	Tract 2980-Well 004
	Tract 2717-Well 004	Tract 3308-Well 004
	Tract 2717-Well 006	Tract 3440-Well 002
	Tract 2720-Well 001	Tract 3467-Well 001
	Tract 2720-Well 002	Tract 3467-Well 121
	Tract 2739-Well 006	

2. Current Status:

The East Vacuum Grayburg San Andres Unit contains 345 wells drilled on 20-acre spacing with limited areas drilled on 10-acre spacing. Currently, 197 wells are active producers, 55 are water injectors, 45 are Water-Alternating-CO₂ injectors, 41 are currently inactive pending CO₂ flood response or evaluation, and 1 is P&A'd. January, 1991 production from the Unit was 8,842 BOPD, 10,537 MCFD at a 61% CO₂ cut, and 36,732 BWPD. The Unit is currently injecting approximately 29 MMCFD of purchased CO₂ and non-saleable CO₂-rich produced gas, and 38,500 BWPD.

3. 1991 Planned Activities:

Continued emphasis will be placed on the optimization of the CO₂ flood performance. Current projects to enhance this effort include project pattern balancing, reactivation of temporarily abandoned wells within the project area (estimated to be 17 reactivations in 1991), and the evaluation of CO₂ foam injection for mobility control. An observation well (3332-003) has been drilled to monitor through logging programs the performance of the CO₂-foam injection trial. This CO₂ foam mobility project is in conjunction with the New Mexico Petroleum Recovery Research Center.

Workovers on producers and injectors will be performed within the Unit on an as needed basis. The primary workover emphasis will continue to be sulphate scale treating, acid treating, and remedial well work.

The fifth produced gas reinjection compressor has been approved by the EVGSAU Working Interest Owners and is scheduled for installation and start-up during the second half of 1991.

The East Vacuum Liquids Recovery Plant, utilizing the two-column Ryan Holmes technology, has been approved by the EVGSAU Working Interest Owners. The plant will recover marketable hydrocarbon liquids from the non-saleable CO₂-rich produced gas stream at the EVGSAU and it is anticipated that on-site construction will commence in November, and plant start-up in April, 1992.

Additional infill drilling is being studied for the EVGSAU. A geological reservoir characterization study is underway with completion expected by year-end.

4. Attachments:

Provided in the attachments are: (a) a map of the Unit; (b) graphs of production and injection history, and (c) a schematic of the East Vacuum Liquids Recovery Plant.

East Vacuum Grayburg-San Andres Unit
Plan of Development
April 22, 1991
Page 3

Please contact me at (915) 368-1203 or Laura Sugg at (915) 368-1413 should you have any questions regarding this Plan of Development.

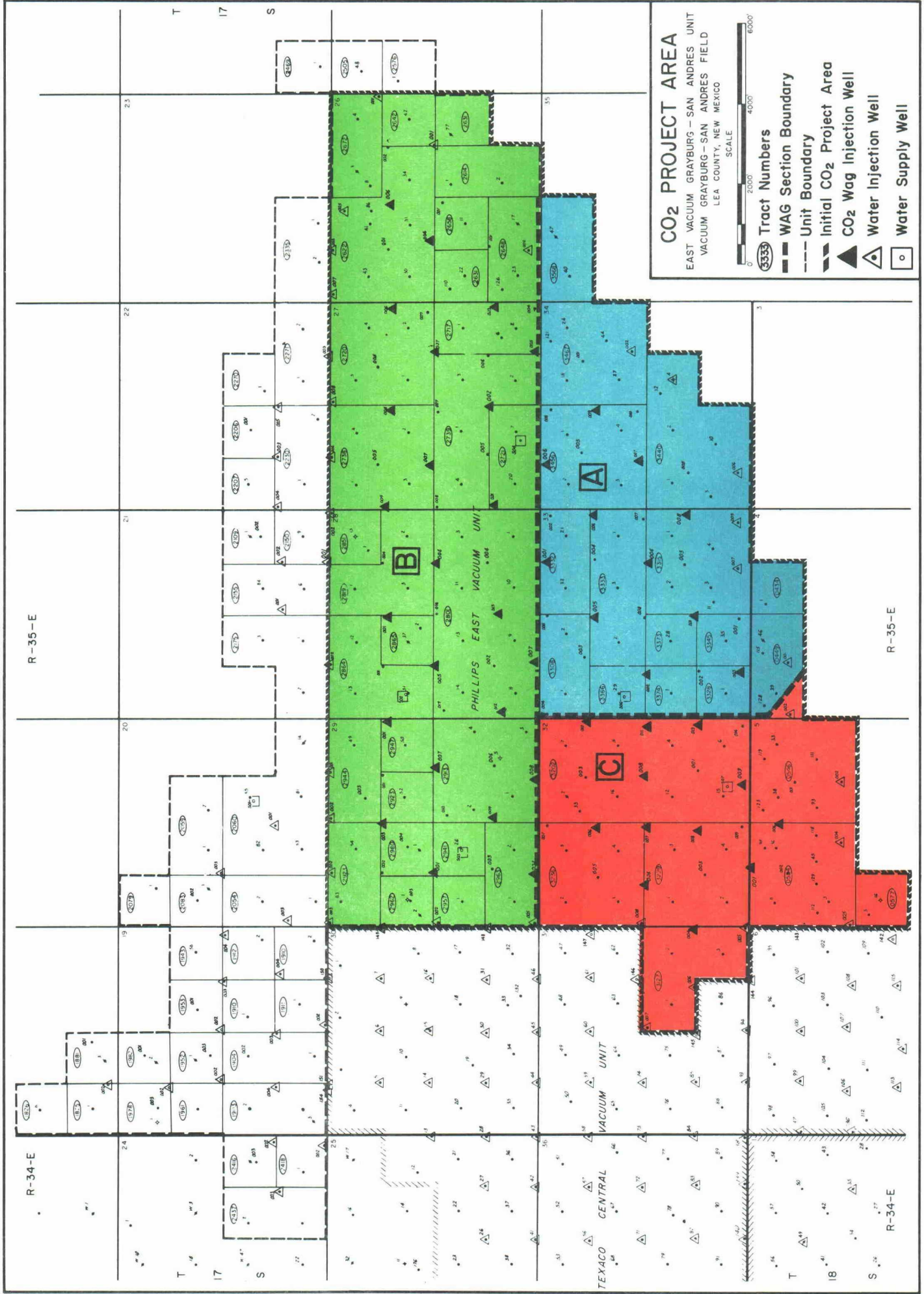
Very truly yours,



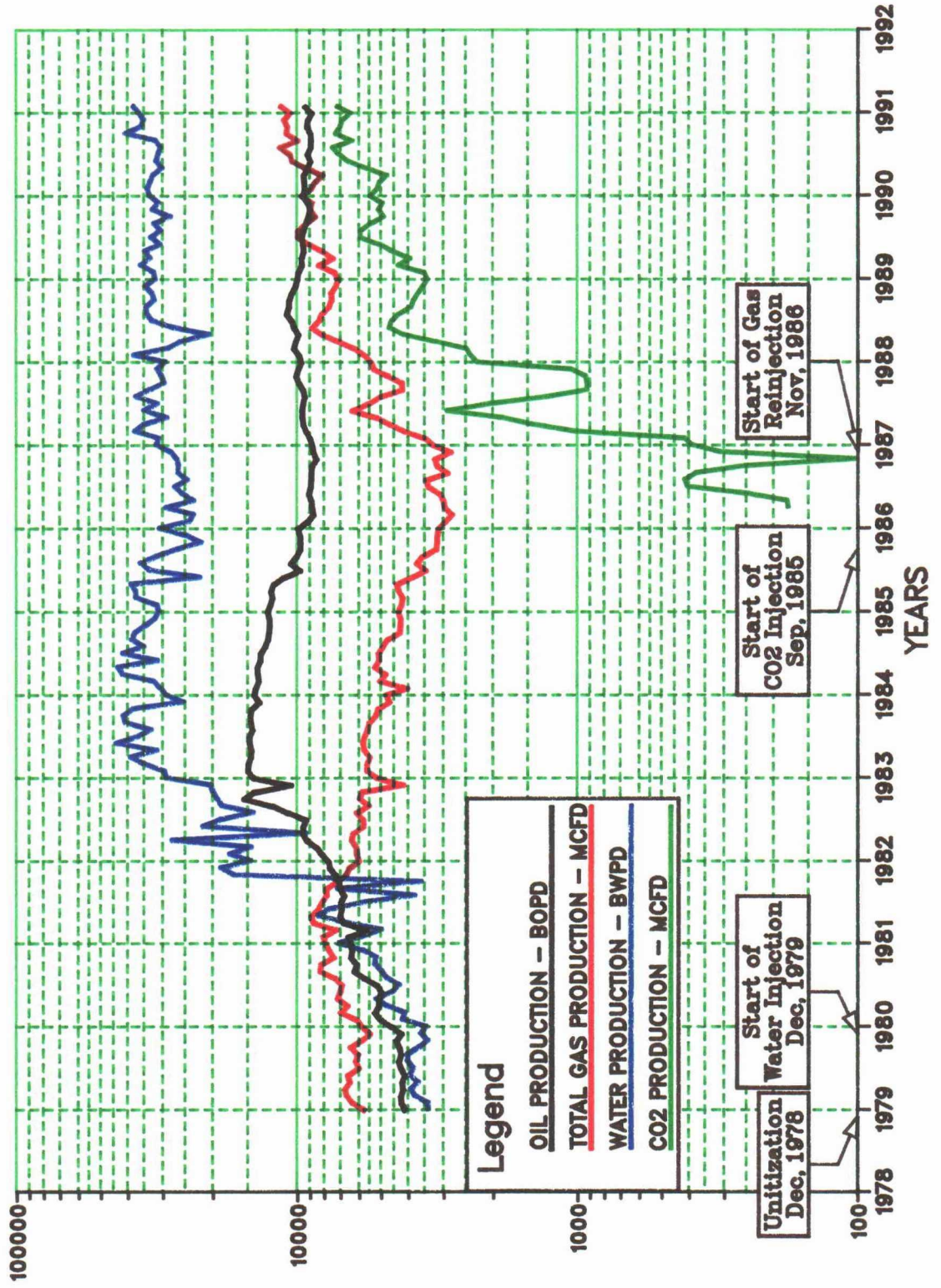
D. R. Wier, Director
Reservoir Engineering

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DRW:LAS:sdb
resv/lugg/devplan

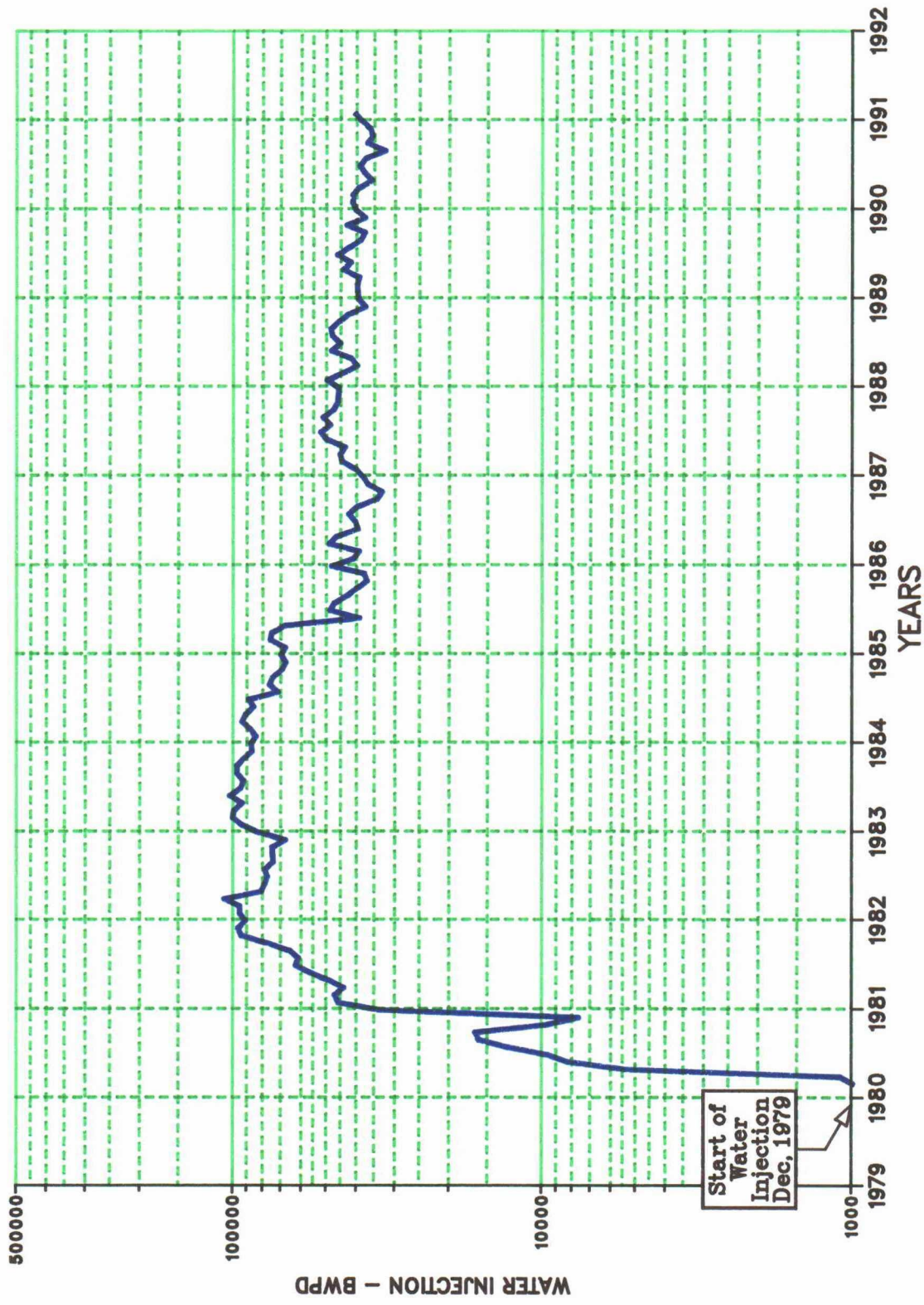
Attachments



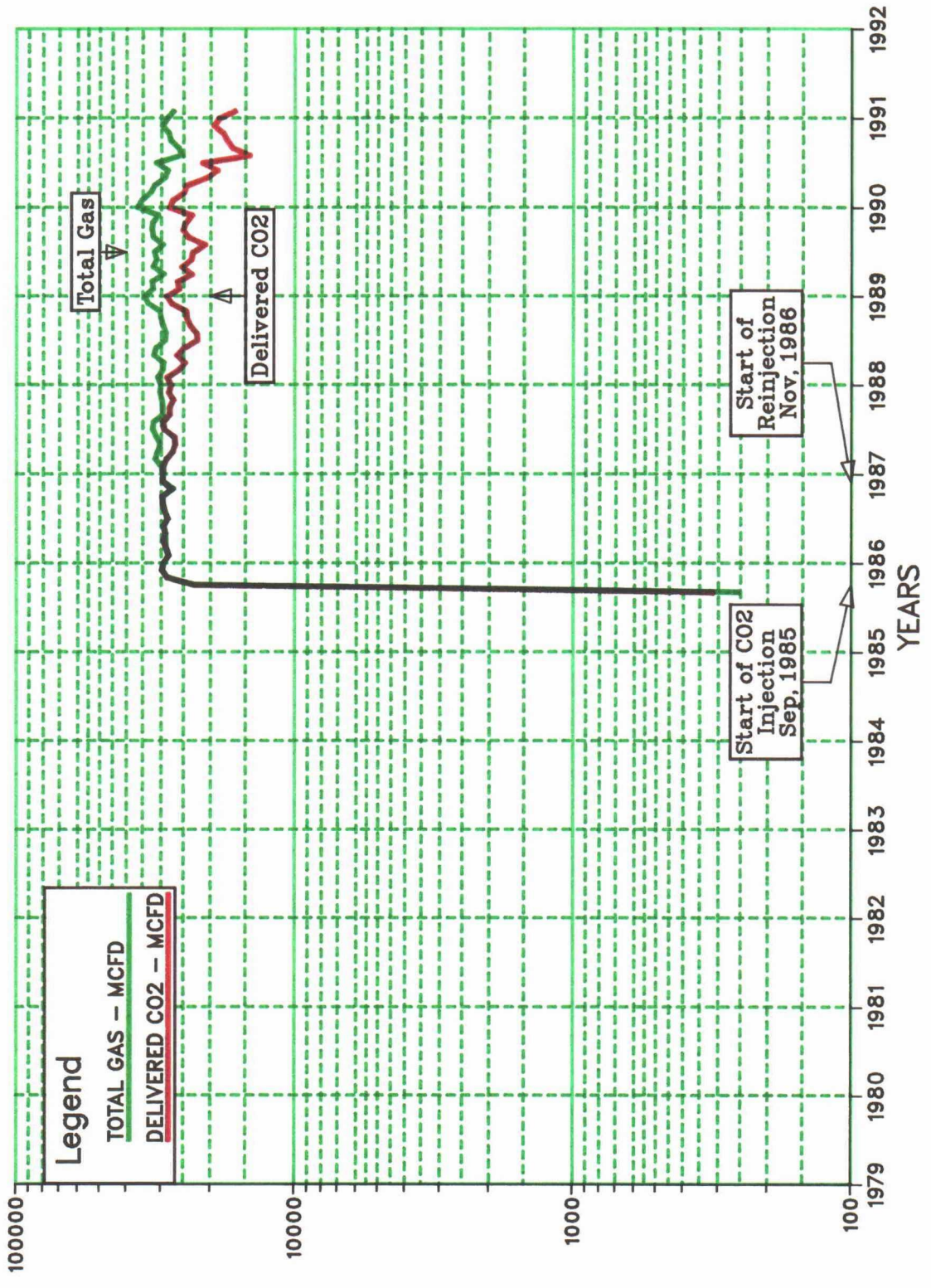
PHILLIPS PETROLEUM COMPANY EVGSAU PRODUCTION HISTORY



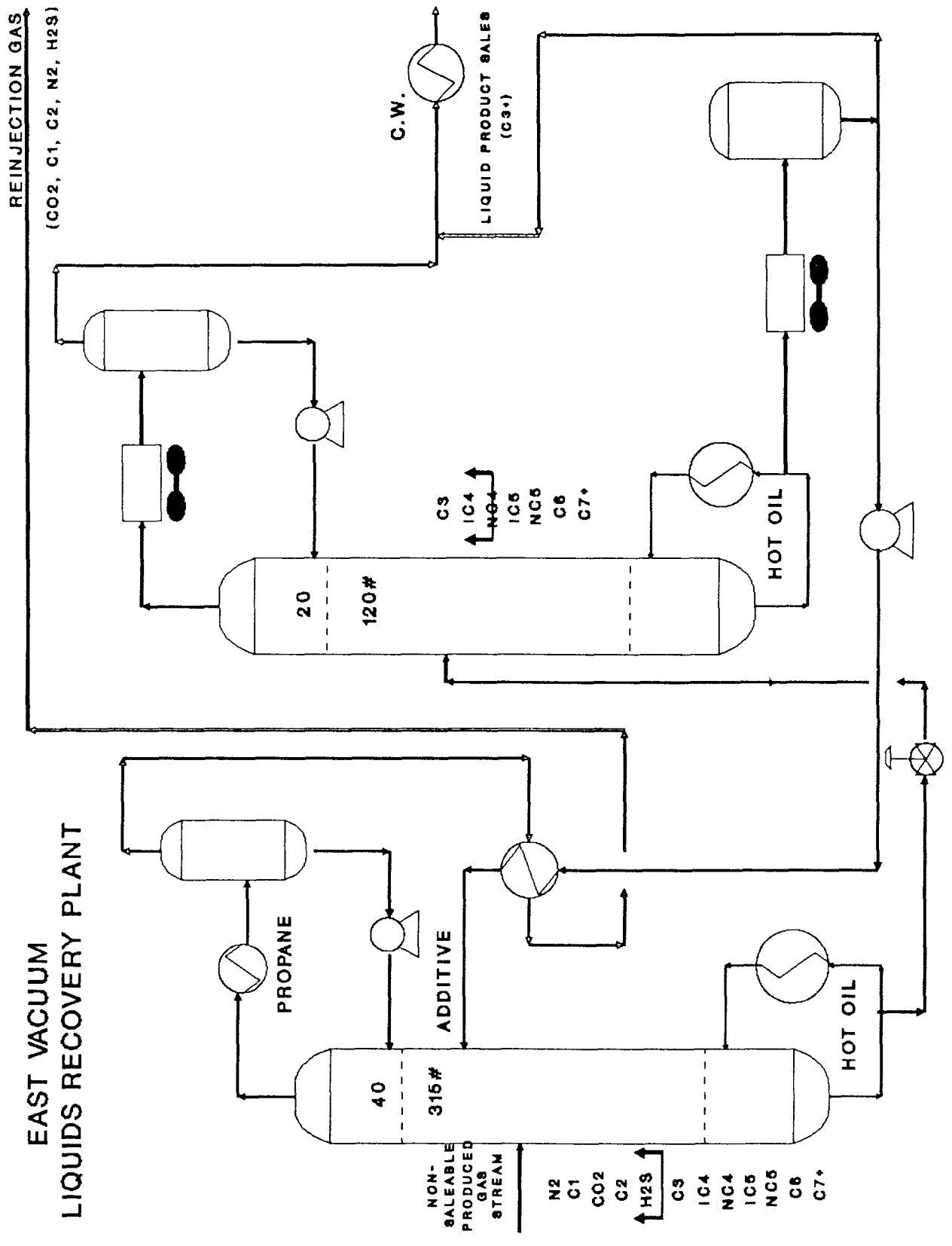
EVGSAU WATER INJECTION HISTORY



EVGSAU GAS INJECTION HISTORY



EAST VACUUM LIQUIDS RECOVERY PLANT



WORKING INTEREST OWNERS
EAST VACUUM GRAYBURG-SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

Amerada Hess Corporation
Attn: Mr. R. W. Mullins
P. O. Box 2040
Tulsa, OK 74102

Amoco Production Company
Attn: Mr. Bruce A. Landis, Jr.
P. O. Box 3092
Houston, TX 77001

Arapaho Petroleum, Inc.
P. O. Box 1271
Breckenridge, TX 76024

Atlantic Richfield Company
Attn: Mr. G. Thane Akins
P. O. Box 1610
Midland, TX 79702

Atlantic Richfield Company
Attn: Mr. J. D. Henry
P. O. Box 2819
Dallas, TX 75221

H. M. Bettis, Inc.
P. O. Box 1168
Graham, TX 76046

W. T. Boyle and Company
P. O. Box 57
Graham, TX 76046

Chevron U.S.A., Inc.
Attn: Mr. E. E. Hagan
P. O. Box 1660
Midland, TX 79702

Cities Service Company
Attn: Mr. E. F. Motter
P. O. Box 1919
Midland, TX 79702

Cities Service Company
Attn: Mr. K. D. Van Horn
P. O. Box 1919
Midland, TX 79702

Crown Central Petroleum Corp. (2)
Attn: Mr. L. E. Lott
1002 Wilco Building
Midland, TX 79701

Davoil, Inc.
P. O. Box 12507
Fort Worth, TX 76110

Millard Deck
P. O. Box 1047
Eunice, New Mexico 88231

Elk Oil Company
Attn: Mr. Joseph J. Kelly
P. O. Box 310
Roswell, N. W. 88201

Exxon Company, U.S.A. (2)
Attn: Mr. J. M. Shepherd
P. O. Box 1600
Midland, TX 79702

Getty Oil Company
Attn: Mr. Audra B. Cary
P. O. Box 1231
Midland, TX 79702

Getty Oil Company
Attn: Mr. Joe King
P. O. Box 1231
Midland, TX 79702

Great Western Drilling Co.
Attn: Mr. F. L. Ballard
P. O. Box 1659
Midland, TX 79702

Mr. Jack D. Hensley
P. O. Box 1418
Pebble Beach, CA 93953

Mr. Larry O. Hulsey
P. O. Box 1143
Graham, TX 76046

Kokomo Oil Company
P. O. Box 4188
Odessa, TX 79760

Mr. Boyd Laughlin
P. O. Box 1540
Midland, TX 79702

Mr. T. W. Little
Suite 207
4925 Davis Boulevard
Fort Worth, TX 76118

Marathon Oil Company
Attn: Mr. G. A. Naert
P. O. Box 552
Midland, TX 79702

Mr. Hamilton E. McRae
P. O. Box 1540
Midland, TX 79702

Mr. Kenneth Midkiff
2308 32nd Street
Snyder, TX 79754

Mobil Oil Corporation (2)
Attn: Mr. E. R. Frazier
Three Greenway Plaza-East
Houston, TX 77046

Mr. Davis Payne
P. O. Box 1749
Midland, TX 79702

Petrosearch, Inc.
825 Petroleum Club Building
Denver, Colorado 80202

Pennzoil Company
Attn: Mr. J. C. Raney
P. O. Drawer 1828
Midland, TX 79702

Pennzoil Company
Attn: Mr. C. A. Brown
P. O. Drawer 1828
Midland, TX 79702

Penrose Production Company
Attn: Mr. H. S. Winston
1205 Commerce Building
Fort Worth, TX 76102

Phillips Petroleum Company
Attn: Mr. J. E. Chrisman
P. O. Box 1967
Houston, TX 77001

Phillips Petroleum Company
Attn: Mr. J. E. Curzon
650 Frank Phillips Building
Bartlesville, OK 74004

Phillips Petroleum Company
Attn: Mr. J. W. Maharg
4001 Penbrook
Odessa, TX 79762

Phillips Petroleum Company
Attn: Mr. W. J. Mueller
4001 Penbrook
Odessa, TX 79762

Polaris Production Corp.
Attn: Mr. Davis Payne
P. O. Box 1749
Midland, TX 79702

Mr. D. E. Radtke
P.O. Box 1703
Midland, TX 79702

Mr. C. W. Seely
1907 Fort Worth Natl. Bank Bldg.,
Fort Worth, TX 76102

Shell Oil Company
Attn: Mr. W. E. Buck
P. O. Box 991
Houston, TX 77001

Sohio Petroleum Company
Attn: Mr. H. P. Dreher
50 Penn Place, Suite 1100
Oklahoma City, OK 73118

Sohio Petroleum Company
Attn: Mr. R. J. Broussard
P. O. Box 3000
Midland, TX 79702

Mr. Norman D. Stovall, Jr.
P. O. Box 10
Graham, TX 76046

S. B. Street & Company
P. O. Box 206
Graham, TX 76046

Texaco, Inc.
Attn: Mr. D. T. McCreary
P. O. Box 3109
Midland, TX 79702

Texaco, Inc.
Attn: District Engineer
P. O. Box 728
Hobbs, New Mexico 88240

Turnco, Inc.
P. O. Box 1168
Graham, TX 76046

Wainoco, Inc.
1100 Milam Plaza Suite 600
Houston, TX 77002

1st Nat'l. Bank of Fort Worth
Executor, Neville G. Penrose Est.
Fort Worth, TX 76101

Fort Worth Nation Bank
Trustee No. 1979
P. O. Box 2050
Fort Worth, TX 76101

Mrs. Mary D. Walsh
1007 First Nat'l. Bank Bldg.,
Fort Worth, TX 76101

Mercantile-Safe Dept. & Tr. Co.
Trs. U/D Donaldson Brown - A/C 1
Attn: Mr. Guy S. Tregoe, Jr.
Mercantile Bank & Trust Bldg., S-1503
2 Hopkins Plaza
Baltimore, Maryland 21201

Mercantile-Safe Dep. & Tr. Co.
Trs. U/D Donaldson Brown-A/C 2
Attn: Mr. Guy S. Tregoe, Jr.
Mercantile Bank & Trust Bldg., S-1503
2 Hopkins Plaza
Baltimore, Maryland 21201



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP

May 29, 1985

East Vacuum Grayburg-San Andres Unit
Unit Participation Change
Lea County, New Mexico

New Mexico Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Gentlemen:

Phillips Petroleum Company, as operator of the East Vacuum Grayburg-San Andres Unit, submits the following documents to reflect a change in unit participation:

1. Revised Page 7 of Exhibit B to the Unit Agreement.
2. Revised Exhibit C, Parts A & B, to the Unit Operating Agreement.

These are the changes necessary to confirm the conversion of Mobil's overriding royalty interest in Tract 2270 to a working interest.

It is requested that these revisions be accepted and filed with the NMOCD's true copies of the Unit Agreement and Unit Operating Agreement, with approved copies returned for distribution to the Working Interest Owners.

Sincerely,

G. R. Smith, Chairman
Working Interest Owners Committee

GRS:MHB:lsw

Attachments

TRACT NO.	LEASE NAME AND LAND DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LSE. NO.	BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND AMOUNT	WORKING INT. OWNER	% W.I. IN TRACT	% TRACT PARTICIPATION	
									INITIAL	FINAL
2962	State I SW1/4 NW1/4 Sec. 29 T-17-S, R-35-E	40.00	B-2423-12	.125	Shell Oil Co.	None	Shell Oil Co.	100.00	-	.27131
2963	State F S1/2 SW1/4 Sec. 29 T-17-S, R-35-E	80.00	B-2423-12	.125	Shell Oil Co.	None	Shell Oil Co.	100.00	.91042	.66249
2864	Santa Fe W1/2 NW1/4&NE1/4 NW1/4 Sec. 28, T-17-S R-35-E	120.00	B-2498	.125	Phillips Petroleum Company	None	Phillips Petroleum Company	100.00	.08098	.37561
2865	Phillips State SE1/4 NW1/4 Sec. 28 T-17-S, R-35-E	40.00	B-2498	.125	Phillips Petroleum Company	Phillips Petroleum Company .05468750	Pennzoil Co. Jack D. Hensley Boyd Laughlin Hamilton McRae Wainoco, Inc. Phillips Petroleum Company	81.2500 3.1250 1.5625 1.5625 12.5000 100.00	.07695	.10078
3366	SW1/4 NW1/4 Sec. 33 T-17-S, R-35-E	40.00	B-2517	.125	Phillips Petroleum Company	None	Phillips Petroleum Company	100.00	1.48641	1.44414
3467	Santa Fe NE1/4 Sec. 34 T-17-S, R-35-E	160.00	B-2519	.125	Phillips Petroleum Company	None	Phillips Petroleum Company	100.00	1.65754	2.38560
3568	Santa Fe N1/2 NW1/4 Sec. 35 T-17-S, R-35-E	80.00	B-2519	.125	Phillips Petroleum Company	None	Phillips Petroleum Company	100.00	-	.12795
2469	Southern State SW1/4 SW1/4 Sec. 24 T-17-S, R-35-E	40.00	B-2531-7	.125	Nevill G. Penrose Est. and William Fleming	None	Nevill G. Penrose Est. Donaldson Brown Tr. A/C 1 Donaldson Brown Tr. A/C 2 Mrs. Mary D. Walsh Mobil Oil Corp. Petro Search, Inc. C. W. Seely Kokomo Oil Co. Kenneth Midkiff Arapaho Petroleum T. W. Little D. E. Radtke Davis Payne	33.3333 15.8334 0.8333 50.0000 35.000 28.4375 4.0625 4.0625 3.2500 4.0625 7.04165 7.04165 7.0417	.00169	.09977
2270	Mobil State NW1/4 SE1/4 Sec. 22 T-17-S, R-35-E	40.00	B-2735	.125	Mobil Oil Corp.	None	Mobil Oil Corp.	50.0000	.03727	.07150

EXHIBIT "C"--PART A
 TO UNIT OPERATING AGREEMENT
 EAST VACUUM GRAYBURG-SAN ANDRES UNIT
 LEA COUNTY, NEW MEXICO

Revision No. 2
 March 6, 1985
 Page No. 1

TRACT SEQUENCE
EFFECTIVE DECEMBER 1, 1978

Tract No.	Working Interest Owner	Working Interest in Tract, Percent	Unit Participation, Percent Final
0434	Marathon Oil Company	100.00000	.05966
0449	Phillips Petroleum Company	100.00000	1.61531
0524	Phillips Petroleum Company	100.00000	4.14654
0546	Phillips Petroleum Company	100.00000	4.84507
0577	Shell Oil Company	100.00000	.22541
1825	Mobil Oil Corporation	100.00000	.07567
1826	Mobil Oil Corporation	100.00000	.08909
1881	Elk Oil Company	45.00000	.04169
	Joseph J. Kelly	5.00000	.00463
	John M. Kelly Estate	50.00000	.04633
1903	Exxon Company, U.S.A.	100.00000	.62367
1904	Atlantic Richfield Company	100.00000	.58090
1910	H. M. Bettis, Inc.	18.00000	.06498
	W. T. Boyle and Company	18.00000	.06498
	Norman D. Stovall, Jr.	18.00000	.06498
	Turnco, Inc.	18.00000	.06498
	S. B. Street and Company	18.00000	.06498
	Larry O. Hulsey	10.00000	.03609
1911	Shell Oil Company	100.00000	.25707
1912	Crown Central Petroleum Corp.	100.00000	.13261
1943	Phillips Petroleum Company	100.00000	.15124
1952	Marathon Oil Company	100.00000	.14278
1953	Marathon Oil Company	50.00000	.09214
	Shell Oil Company	50.00000	.09214
1961	Mobil Oil Corporation	100.00000	.08458
1978	Shell Oil Company	100.00000	.10264
1982	Elk Oil Company	45.00000	.05858
	Joseph J. Kelly	5.00000	.00651
	John M. Kelly Estate	50.00000	.06509
2054	H. M. Bettis, Inc.	18.00000	.02095
	W. T. Boyle and Company	18.00000	.02095
	Norman D. Stovall, Jr.	18.00000	.02095
	Turnco, Inc.	18.00000	.02094
	S. B. Street and Company	18.00000	.02094
	Larry O. Hulsey	10.00000	.01164
2059	Millard Deck	62.50000	.01019
	John R. Bryant	12.50000	.00204
	L. O. Box	25.00000	.00408
2060	Phillips Petroleum Company	100.00000	.37941

EXHIBIT "C"--PART A (TRACT SEQUENCE)
 EFFECTIVE DECEMBER 1, 1978
 EAST VACUUM GRAYBURG-SAN ANDRES UNIT

Revision No. 2
 March 6, 1985
 Page 2

Tract No.	Working Interest Owner	Working Interest in Tract, Percent	Unit Participation, Percent Final
2079	Crown Central Petroleum Corp.	100.00000	.07001
2083	Elk Oil Company	45.00000	.02307
	Joseph J. Kelly	5.00000	.00256
	John M. Kelly Estate	50.00000	.02563
2109	Shell Oil Company	100.00000	.05420
2150	Phillips Petroleum Company	100.00000	.13931
2155	Phillips Petroleum Company	100.00000	.16750
2175	Mobil Oil Corporation	100.00000	.23742
2206	Amerada Hess Corporation	100.00000	.08543
2207	Kokomo Oil Company	6.25000	.00236
	T. W. Little	31.25000	.01181
	D. E. Radtke	31.25000	.01181
	Davis Payne	31.25000	.01181
2230	Atlantic Richfield Company	100.00000	.30083
2270	Mobil Oil Corporation	35.00000	.02502
	Petro-Search, Inc.	28.43750	.02033
	C. W. Seely	4.06250	.00291
	Kokomo Oil Company	4.06250	.00291
	Kenneth Midkiff	3.25000	.00232
	Arapaho Petroleum, Inc.	4.06250	.00291
	T. W. Little	7.04165	.00503
	D. E. Radtke	7.04165	.00503
	Davis Payne	7.04170	.00504
2271	Mobil Oil Corporation	100.00000	.17975
2335	Sohio Petroleum Company	33.33334	.08332
	Donaldson Brown Trust A/C 1	15.83333	.03957
	Donaldson Brown Trust A/C 2	.83333	.00208
	Fort Worth National Bank Trustee No. 1979	50.00000	.12497
2416	Shell Oil Company	100.00000	.18642
2418	Atlantic Richfield Company	100.00000	.30137
2437	Atlantic Richfield Company	100.00000	.16590
2469	Neville G. Penrose Estate	33.33334	.03326
	Donaldson Brown Trust A/C 1	15.83333	.01580
	Donaldson Brown Trust A/C 2	.83333	.00083
	Mrs. Mary F. Fleming Walsh	50.00000	.04988
2505	Phillips Petroleum Company	100.00000	.22031
2576	Great Western Drilling Company	32.23800	.02929
	Davoil, Inc.	17.76200	.01613
	Amoco Production Company	50.00000	.04542
2614	Atlantic Richfield Company	100.00000	.42296
2622	Phillips Petroleum Company	100.00000	1.47884
2631	Phillips Petroleum Company	100.00000	.57020
2642	Phillips Petroleum Company	100.00000	.09621
2648	Phillips Petroleum Company	100.00000	.54475

EXHIBIT "C"--PART A (TRACT SEQUENCE)
EFFECTIVE DECEMBER 1, 1978
EAST VACUUM GRAYBURG-SAN ANDRES UNIT

Revision No. 2
March 6, 1985
Page 3

Tract No.	Working Interest Owners	Working Interest in Tract, Percent	Unit Participation, Percent Final
2658	Phillips Petroleum Company	100.00000	.33494
2672	Mobil Oil Corporation	100.00000	.63057
2717	Shell Oil Company	100.00000	1.41489
2720	Cities Service Company	100.00000	1.01965
2721	Phillips Petroleum Company	100.00000	2.44676
2738	Chevron U.S.A., Inc.	100.00000	1.49111
2739	Chevron U.S.A., Inc.	100.00000	2.99166
2801	Exxon Company, U.S.A.	100.00000	5.34834
2819	Shell Oil Company	100.00000	.92386
2851	Pennzoil Company	81.25000	.25296
	Jack D. Hensley	3.12500	.00973
	Boyd Laughlin	1.56250	.00486
	Hamilton E. McRae	1.56250	.00486
	Wainoco Oil and Gas Company	12.50000	.03892
2864	Phillips Petroleum Company	100.00000	.37561
2865	Pennzoil Company	81.25000	.08188
	Jack D. Hensley	3.12500	.00315
	Boyd Laughlin	1.56250	.00158
	Hamilton E. McRae	1.56250	.00158
	Wainoco Oil and Gas Company	12.50000	.01259
2913	Atlantic Richfield Company	100.00000	2.00209
2923	Phillips Petroleum Company	100.00000	.40873
2941	Phillips Petroleum Company	100.00000	.36837
2944	Phillips Petroleum Company	100.00000	.28466
2947	Phillips Petroleum Company	100.00000	.37286
2957	Shell Oil Company	100.00000	.46592
2962	Shell Oil Company	100.00000	.27131
2963	Shell Oil Company	100.00000	.66249
2980	Phillips Petroleum Company	100.00000	.15587
3127	Mobil Oil Corporation	100.00000	4.57057
3202	Exxon Company, U.S.A.	100.00000	10.46326
3229	Atlantic Richfield Company	100.00000	7.01489
3236	Chevron U.S.A, Inc.	100.00000	3.56440
3308	Getty Oil Company	100.00000	1.28872
3315	Shell Oil Company	100.00000	4.13554
3328	Getty Oil Company	100.00000	1.77571
3332	Phillips Oil Company	100.00000	3.46424

EXHIBIT "C"--PART A (TRACT SEQUENCE)
 EFFECTIVE DECEMBER 1, 1978
 EAST VACUUM GRAYBURG-SAN ANDRES UNIT

Revision No. 2
 March 6, 195
 Page 4

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest in Tract, Percent</u>	<u>Unit Participation, Percent Final</u>
3333	Marathon Oil Company	100.00000	4.14916
3345	Phillips Petroleum Company	100.00000	1.31282
3366	Phillips Petroleum Company	100.00000	1.44414
3373	Phillips Petroleum Company	100.00000	1.61649
3374	Mobil Oil Corporation	100.00000	1.54153
3440	Chevron U.S.A., Inc.	100.00000	3.06316
3456	Mobil Oil Corporation	100.00000	5.46508
3467	Phillips Petroleum Company	100.00000	2.38560
3568	Phillips Petroleum Company	100.00000	<u>.12795</u>
		GRAND TOTAL	100.00000

EXHIBIT "C"--PART B
TO UNIT OPERATING AGREEMENT
EAST VACUUM GRAYBURG-SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

Revision No. 2
March 6, 1985
Page 1

OWNER SEQUENCE
EFFECTIVE DECEMBER 1, 1978

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation, Percent Final</u>
Amerada Hess Corporation	2206	.08543
Amoco Production Company	2576	.04542
Arapaho Petroleum, Inc.	2270	.00291
Atlantic Richfield Company	1904 2230 2418 2437 2614 2913 3229	.58090 .30083 .30137 .16590 .42296 2.00209 7.01489
OWNER TOTAL		<u>10.78894</u>
H. M. Bettis, Inc.	1910 2054	.06498 .02095
OWNER TOTAL		<u>.08593</u>
L. O. Box	2059	.00408
W. T. Boyle and Company	1910 2054	.06498 .02095
OWNER TOTAL		<u>.08593</u>
Donaldson Brown Trust A/C 1	2335 2469	.03957 .01580
OWNER TOTAL		<u>.05537</u>
Donaldson Brown Trust A/C 2	2335 2469	.00208 .00083
OWNER TOTAL		<u>.00291</u>
John R. Bryant	2059	.00204
Chevron U.S.A., Inc.	2738 2739 3236 3440	1.49111 2.99166 3.56440 3.06316
OWNER TOTAL		<u>11.11033</u>
Cities Service Company	2720	1.01965
Crown Central Petroleum Corp.	1912 2079	.13261 .07001
OWNER TOTAL		<u>.20262</u>
Davoil, Inc.	2576	.01613
Millard Deck	2059	.01019
Elk Oil Company	1881 1982 2083	.04169 .05858 .02307
OWNER TOTAL		<u>.12334</u>
Exxon Company, U.S.A.	1903 2801 3202	.62367 5.34834 10.46326
OWNER TOTAL		<u>16.43527</u>
Fort Worth National Bank Trustee No. 1979	2335	.12497

EXHIBIT "C"--PART B (OWNER SEQUENCE)
EFFECTIVE DECEMBER 1, 1978
EAST VACUUM GRAYBURG-SAN ANDRES UNIT

Revision No. 2
March 6, 1985
Page 2

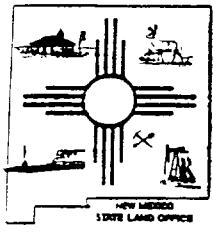
<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation, Percent Final</u>
Getty Oil Company	3308	1.28872
	3328	1.77571
OWNER TOTAL		<u>3.06443</u>
Great Western Drilling Company	2576	.02929
Jack D. Hensley	2851	.00973
	2865	.00315
OWNER TOTAL		<u>.01288</u>
Larry O. Hulsey	1910	.03609
	2054	.01164
OWNER TOTAL		<u>.04773</u>
John M. Kelly Estate	1881	.04633
	1982	.06509
	2083	.02563
OWNER TOTAL		<u>.13705</u>
Joseph J. Kelly	1881	.00463
	1982	.00651
	2083	.00256
OWNER TOTAL		<u>.01370</u>
Kokomo Oil Company	2207	.00236
	2270	.00291
OWNER TOTAL		<u>.00527</u>
Boyd Laughlin	2851	.00486
	2865	.00158
OWNER TOTAL		<u>.00644</u>
T. W. Little	2207	.01181
	2270	.00503
OWNER TOTAL		<u>.01684</u>
Hamilton E. McRae	2851	.00486
	2865	.00158
OWNER TOTAL		<u>.00644</u>
Marathon Oil Company	0434	.05966
	1952	.14278
	1953	.09214
	3333	4.14916
OWNER TOTAL		<u>4.44374</u>
Kenneth Midkiff	2270	.00232
Mobil Oil Corporation	1825	.07567
	1826	.08909
	1961	.08458
	2175	.23742
	2270	.02502
	2271	.17975
	2672	.63057
	3127	4.57057
	3374	1.54153
	3456	5.46508
OWNER TOTAL		<u>12.89928</u>
Davis Payne	2207	.01181
	2270	.00504
OWNER TOTAL		<u>.01685</u>
Pennzoil Company	2851	.25296
	2865	.08188
OWNER TOTAL		<u>.33484</u>

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation, Percent Final</u>
Neville G. Penrose Estate	2469	.03326
Petro-Search, Inc.	2270	.02033
Phillips Petroleum Company	0449	1.61531
	0524	4.14654
	0546	4.84507
	1943	.15124
	2060	.37941
	2150	.13931
	2155	.16750
	2505	.22031
	2622	1.47884
	2631	.57020
	2642	.09621
	2648	.54475
	2658	.33494
	2721	2.44676
	2864	.37561
	2923	.40873
	2941	.36837
	2944	.28466
	2947	.37286
	2980	.15588
	3332	3.46424
	3345	1.31282
	3366	1.44414
	3373	1.61649
	3467	2.38560
	3568	.12795
OWNER TOTAL		<u>29.45373</u>
D. E. Radtke	2207	.01181
	2270	.00503
OWNER TOTAL		<u>.01684</u>
C. W. Seely	2270	.00291
Shell Oil Company	0577	.22541
	1911	.25707
	1953	.09214
	1978	.10264
	2109	.05420
	2416	.18642
	2717	1.41489
	2819	.92386
	2957	.46592
	2962	.27131
	2963	.66249
	3315	4.13554
OWNER TOTAL		<u>8.79189</u>
Sohio Petroleum Company	2335	.08332
Norman D. Stovall, Jr.	1910	.06498
	2054	.02095
OWNER TOTAL		<u>.08593</u>
S. B. Street and Company	1910	.06498
	2054	.02094
OWNER TOTAL		<u>.08592</u>
Turnco, Inc.	1910	.06498
	2054	.02094
OWNER TOTAL		<u>.08592</u>

EXHIBIT "C"--PART B (OWNER SEQUENCE)
EFFECTIVE DECEMBER 1, 1978
EAST VACUUM GRAYBURG-SAN ANDRES UNIT

Revision No. 2
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Page 4

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation, Percent Final</u>
Wainoco Oil and Gas Company	2851	.03892
	2865	.01259
OWNER TOTAL		<u>.05151</u>
Mrs. Mary D. Fleming Walsh	2469	<u>.04988</u>
GRAND TOTAL		100.00000



State of New Mexico
Commissioner of Public Lands

#16366

W. R. Humphries
COMMISSIONER

Advisory Board April 24, 1990

George Clark
Chairman

Kristin Conniff
Vice Chairman

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

ATTN: D.A. Brown

RE: East Vacuum Grayburg San Andres Unit
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the East Vacuum Grayburg San Andres Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the Unit may exist. You will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact this office at (505) 827-5746.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5746

cc: OCD - Santa Fe, New Mexico
BLM
Unit Correspondence File
Unit P.O.D. File

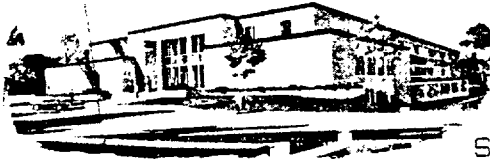
WRH/FOP/SMH

State of New Mexico

6366



RECEIVED
SEP - 9 1987



SLO REF. NO. OG-408

W.R. HUMPHRIES
COMMISSIONER

Commissioner of Public Lands

September 4, 1987

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

Phillips Petroleum Company
Attention: G. R. Smith
4001 Penbrook
Odessa, Texas 79762

Re: East Vacuum G/SA Unit
1987 Plan of Development
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all appropriate agencies.

If we may be of further help, please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil & Gas Division
(505) 827-5744

WRH/FOP/ams
enclosure
cc: Bureau of Land Management
Oil Conservation Division



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

June 9, 1986

EXPLORATION AND PRODUCTION GROUP

East Vacuum Grayburg-San Andres Unit
Carbon Dioxide Injection Project
Lea County, New Mexico

New Mexico Oil Conservation Division
Attn: Mr. Jerry Sexton
P. O. Box 1980
Hobbs, New Mexico 82240

Dear Mr. Sexton:

As authorized by New Mexico Oil Conservation Division Order No. R-6856, carbon dioxide injection is currently in progress at the East Vacuum Grayburg-San Andres Unit.

Recently, carbon dioxide injection was switched from WAG Area B to WAG Area C. Based on reservoir performance to date we are not injecting CO₂ in all the previously designated WAG Area C injectors. Currently, CO₂ is being injected into 12 of the 16 WAG Area C injectors and 8 of the 19 WAG Area B injectors. The remainder of the CO₂ injectors in WAG Area C will begin CO₂ injection some time within the four month cycle depending on reservoir performance. CO₂ injection into the WAG Area B wells will be discontinued as WAG Area C wells are added.

As in the previous WAG cycles, we are injecting CO₂ in the WAG Area C injectors at rates so as not to exceed the lesser of our bottom hole pressure limitation of 3150 psi (NMOCD Order No. R-6856) or the well's formation parting pressure. The formation parting pressures for 14 of the WAG Area C injectors were determined in a recent series of step-rate tests. The results and copies of these tests are attached. Note that none of the wells showed a parting pressure below the bottom hole pressure limitation of 3150 psi. However, the test on 0524-W006 was only run to a maximum BHP of 2741 psi due to water injection facility limits. Injection in this well will always be at rates lower than the maximum test rate of 12,816 BPD; therefore, we will be insuring a rate below the parting pressure.

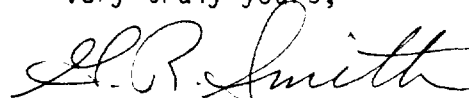
Two injectors in WAG Area C (3127-W004 and 3202-W010) are currently shut-in pending remedial work. Tests will be conducted on these wells when injection recommences and the results will be forwarded to you at that time.

In order to verify our compliance with the 3150 psi bottom hole pressure limitation, we will run BHP surveys in the WAG Area C wells while injecting CO₂. This data will be forwarded to you when available.

New Mexico Oil Conservation Division
East Vacuum Grayburg-San Andres Unit
Carbon Dioxide Injection Project
June 9, 1986
Page 2

If you have any questions regarding these tests or if any further information is required, please contact Mike Brownlee or Laura Sugg in Odessa at (915) 367-1413 or (915) 367-1418, respectively.

Very truly yours,



G. R. Smith, Director
Reservoir Engineering

LAS:jj

Attachments

cc: New Mexico Oil Conservation Division ✓
Attn: Mr. R. L. Stamets
P. O. Box 2088
Santa Fe, New Mexico 87501

EAST VACUUM GRAYBURG - SAN ANDRES UNIT
 Summary of Formation Parting Pressure Results
 for Wag Area C

<u>Tract-Well</u>	<u>Depth of Top Perforation</u>	<u>Tubing Size</u>	<u>Bottom Hole Parting Pressure, PSI</u>	<u>Injection Rate at Parting Pressure, RPD</u>
0524-W001	4400'	2-7/8"	3613*	12,384+
0524-W006	4482'	2-7/8"	2741*	12,816+
2913-W008	4504'	2-7/8"	3675	1,800
2913-W009	4520'	2-7/8"	3975	3,024
2941-W001	4492'	2-7/8"	4085	4,248
2963-W004	4395'	2-7/8"	3463*	12,528+
3202-W008	4366'	2-7/8"	3540	10,152
3202-W009	4395'	2-7/8"	3650	7,276
3202-W011	4354'	2-7/8"	4300	5,184
3202-W013	4390'	2-7/8"	3838*	12,384+
3229-W006	4365'	2-7/8"	4000	8,712
3229-W007	4345'	2-7/8"	3732*	11,088+
3229-W008	4330'	2-7/8"	3710	5,904
3236-W006	4383'	2-7/8"	4171*	11,376+

* - No identifiable parting pressure was observed; this is the maximum bottom hole pressure observed during the test.

+ - Where no identifiable parting pressure was observed, the maximum injection rate attained during the test is given.

EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 0524, Well No. W001

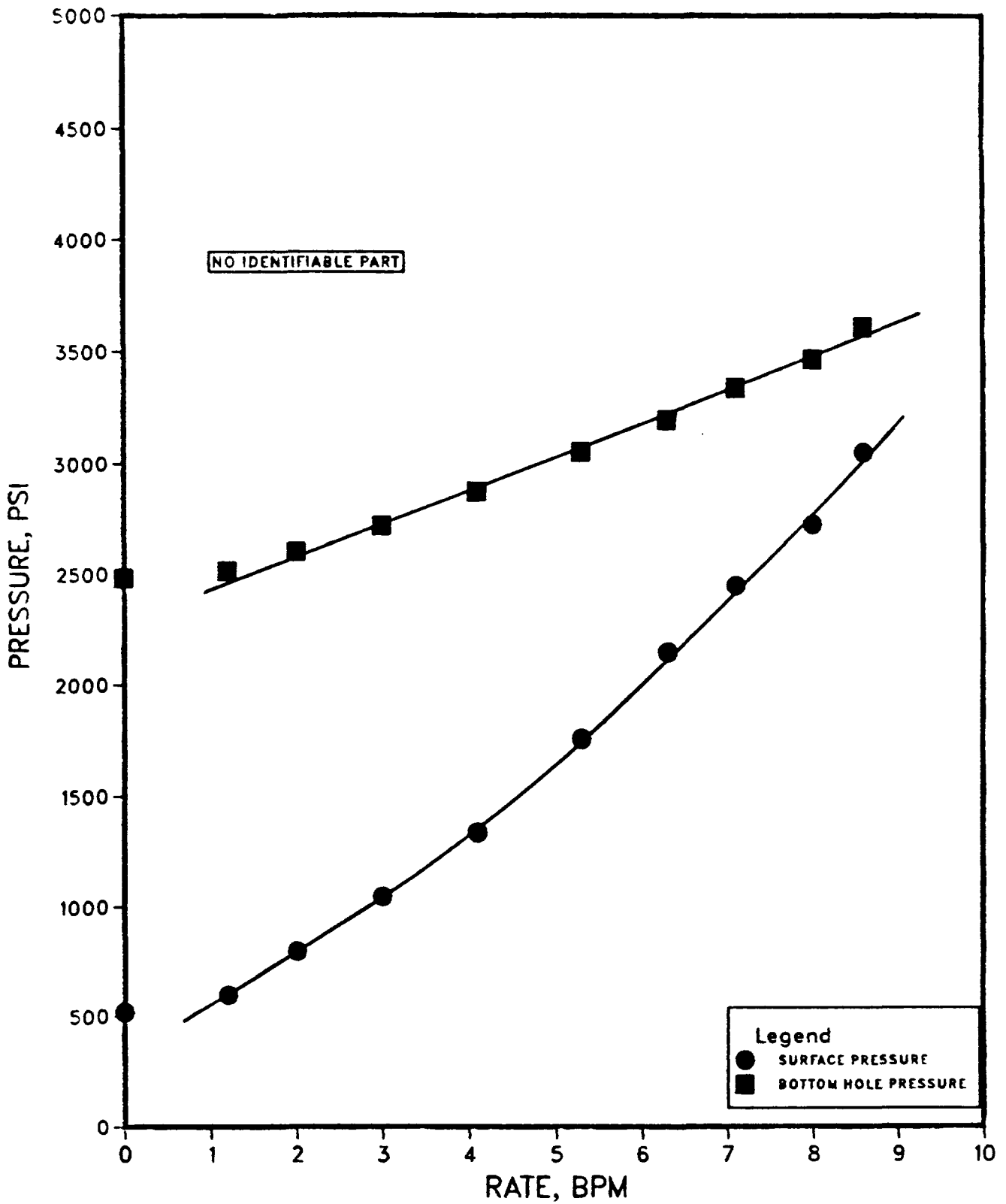
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	520	2482
1.2	1728	600	2515
2.0	2880	800	2604
3.0	4320	1050	2723
4.1	5904	1340	2878
5.3	7632	1760	3058
6.3	9072	2150	3201
7.1	10224	2450	3341
8.0	11520	2730	3469
8.6	12384	3055	3613

*Measured at top perforation.

RE6.2/evgsau.t

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 0524, WELL NO. W001



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 0524, Well No. W006

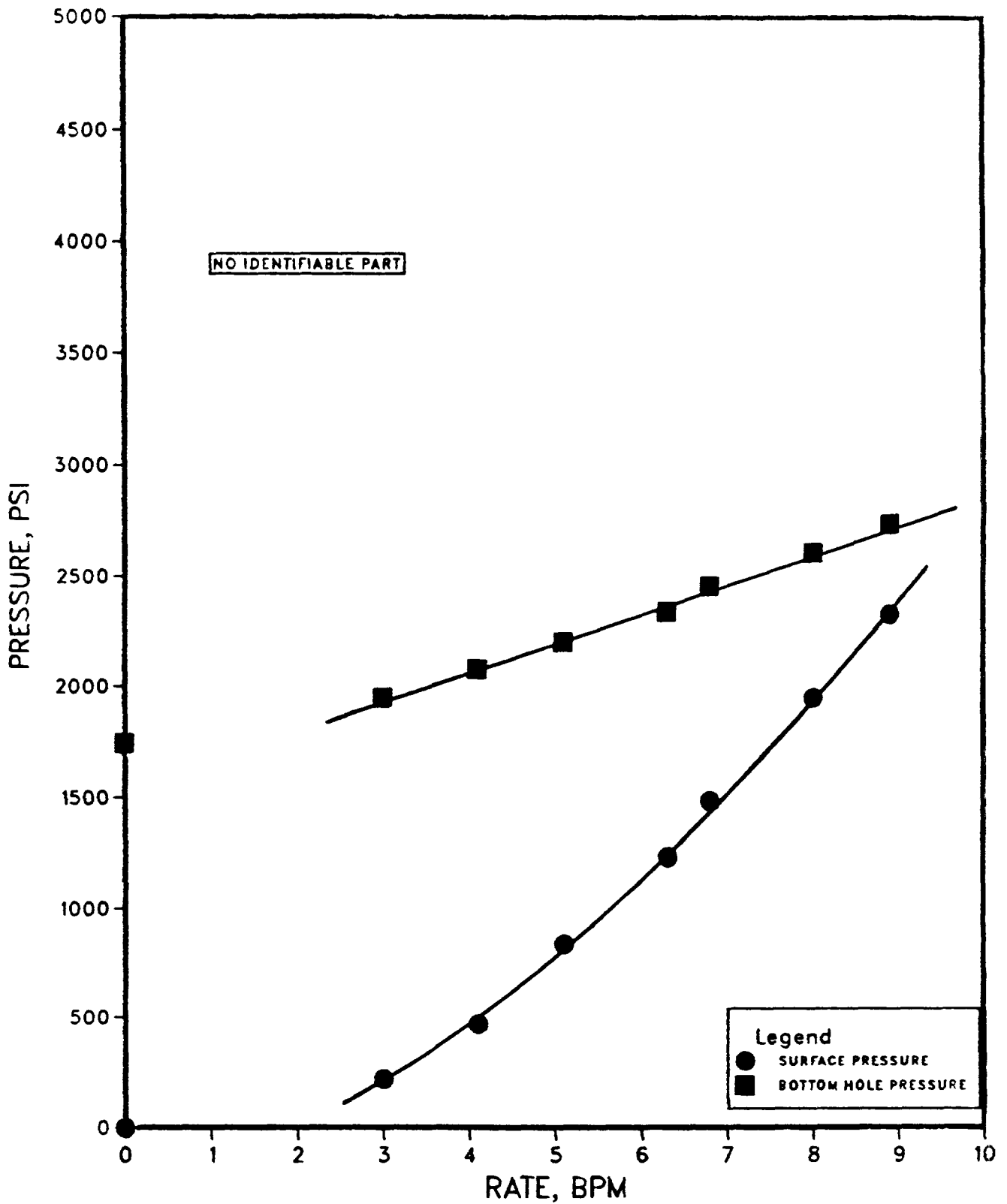
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> <u>(BPM)</u>	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	0	1744
1.5	2160	0	1780
2.1	3024	0	1848
3.0	4320	220	1948
4.1	5904	470	2079
5.1	7344	840	2204
6.3	9072	1235	2341
6.8	9792	1485	2457
8.0	11520	1950	2610
8.9	12816	2330	2741

*Measured at top perforation.

RE6.2/evgsau.t1

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 0524, WELL NO. W006



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 2913, Well No. W008

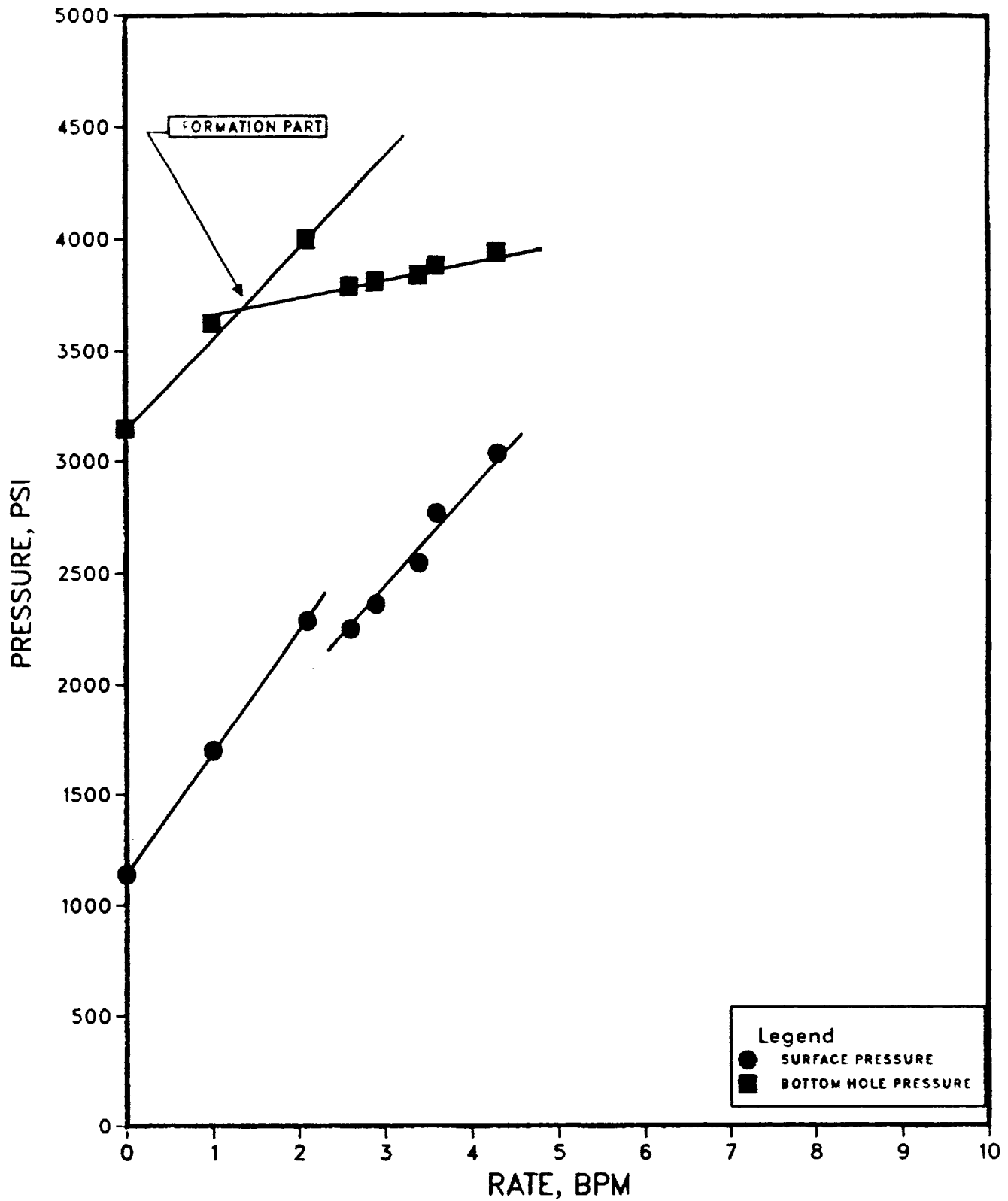
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> <u>(BPM)</u>	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0	0	1140	3146
1.0	1440	1700	3625
2.1	3024	2285	4000
2.6	3744	2250	3793
2.9	4176	2360	3814
3.4	4896	2545	3844
3.6	5184	2770	3887
4.3	6192	3035	3945

*Measured at top perforation.

RE6.2/evgsau.t3

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 2913, WELL NO. W008



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 2913, Well No. W009

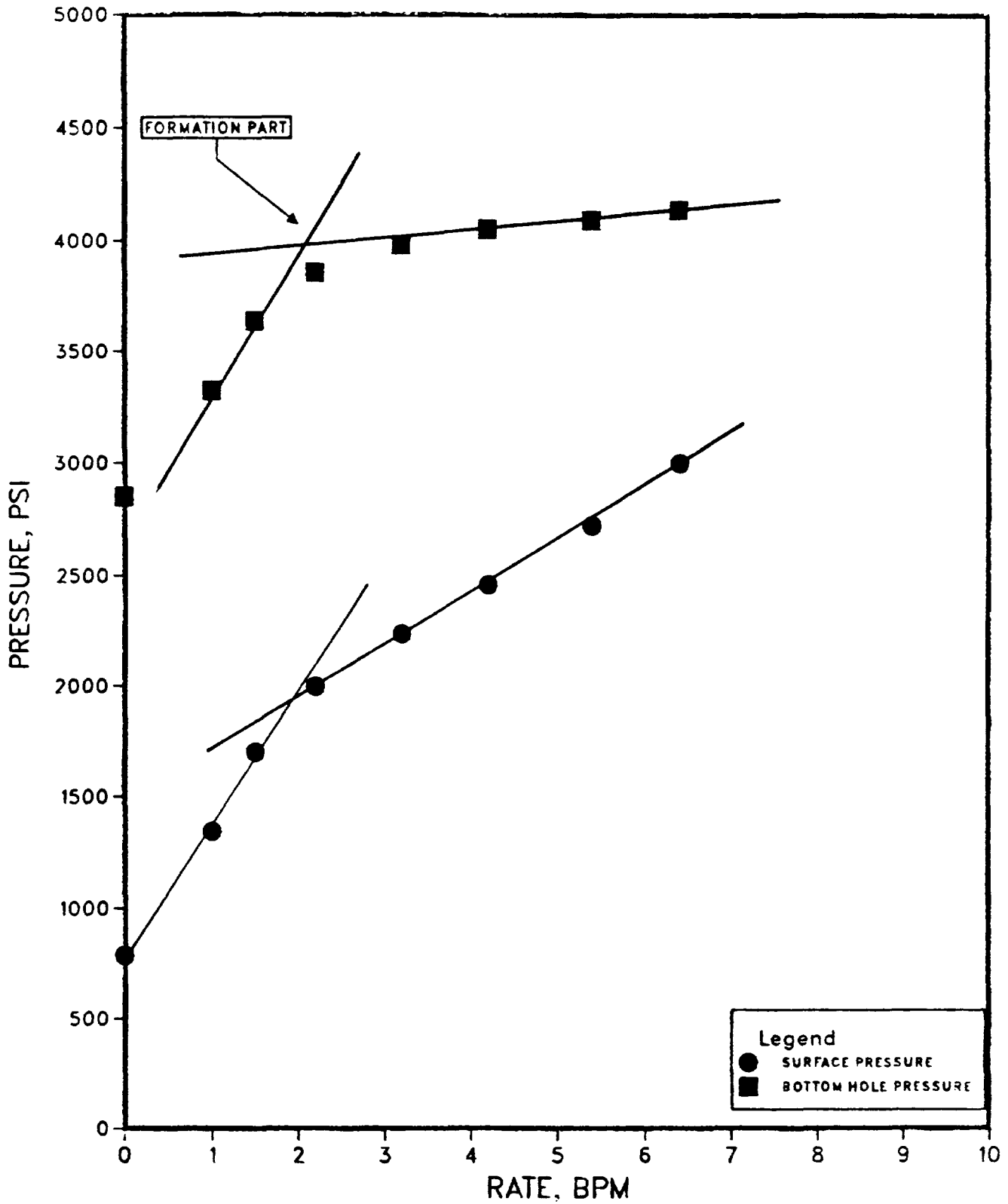
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	790	2849
1.0	1440	1345	3323
1.5	2160	1700	3637
2.2	3168	2000	3860
3.2	4608	2240	3985
4.2	6048	2460	4055
5.4	7776	2725	4095
6.4	9216	3000	4140

*Measured at top perforation.

RE6.2/evgsau.t4

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 2913, WELL NO. W009



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 2941, Well No. W001

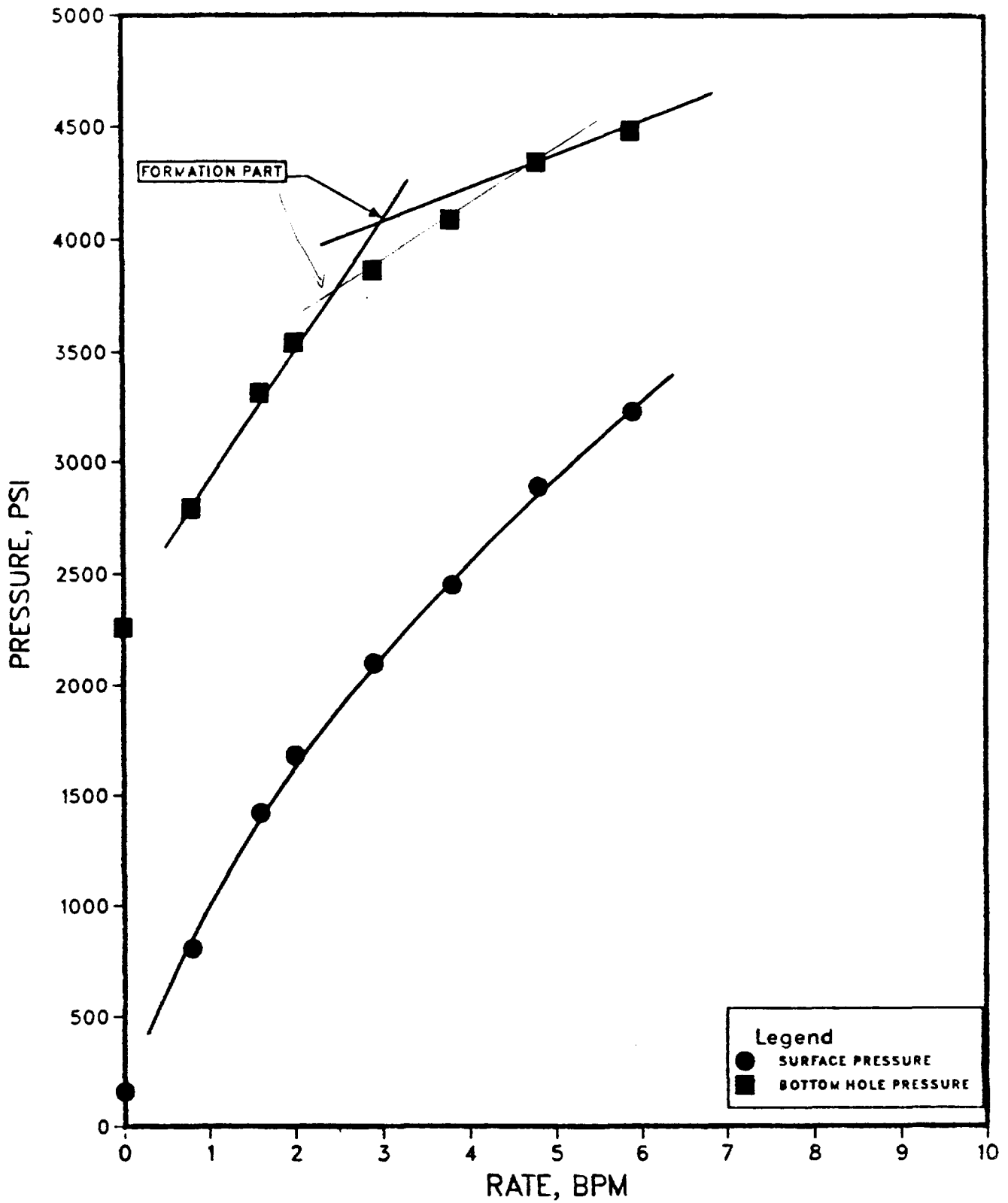
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> (BPM)	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	160	2259
0.8	1152	810	2790
1.6	2304	1420	3314
2.0	2880	1680	3543
2.9	4176	2100	3866
3.8	5472	2450	4088
4.8	6912	2890	4345
5.9	8496	3230	4485

*Measured at top perforation.

RE6.2/evgsau.t5

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 2941, WELL NO. W001



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 2963, Well No. W004

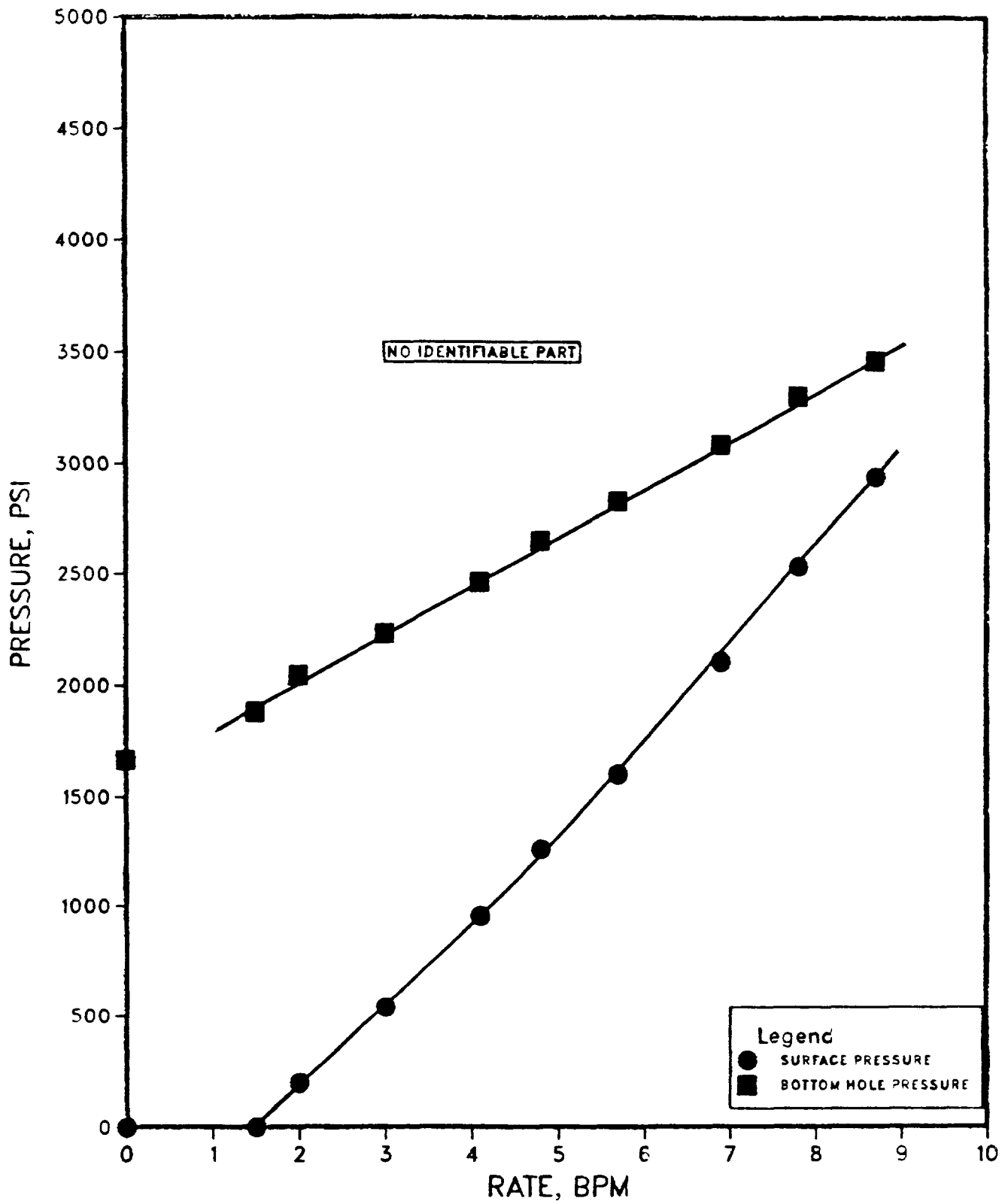
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> <u>(BPM)</u>	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	0	1665
1.5	2160	0	1878
2.0	2880	200	2043
3.0	4320	540	2232
4.1	5904	955	2463
4.8	6912	1260	2649
5.7	8208	1600	2829
6.9	9936	2105	3088
7.8	11232	2535	3305
8.7	12528	2940	3463

*Measured at top perforation.

RE6.2/evgsau.t6

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 2963, WELL NO. W004



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3202, Well No. W008

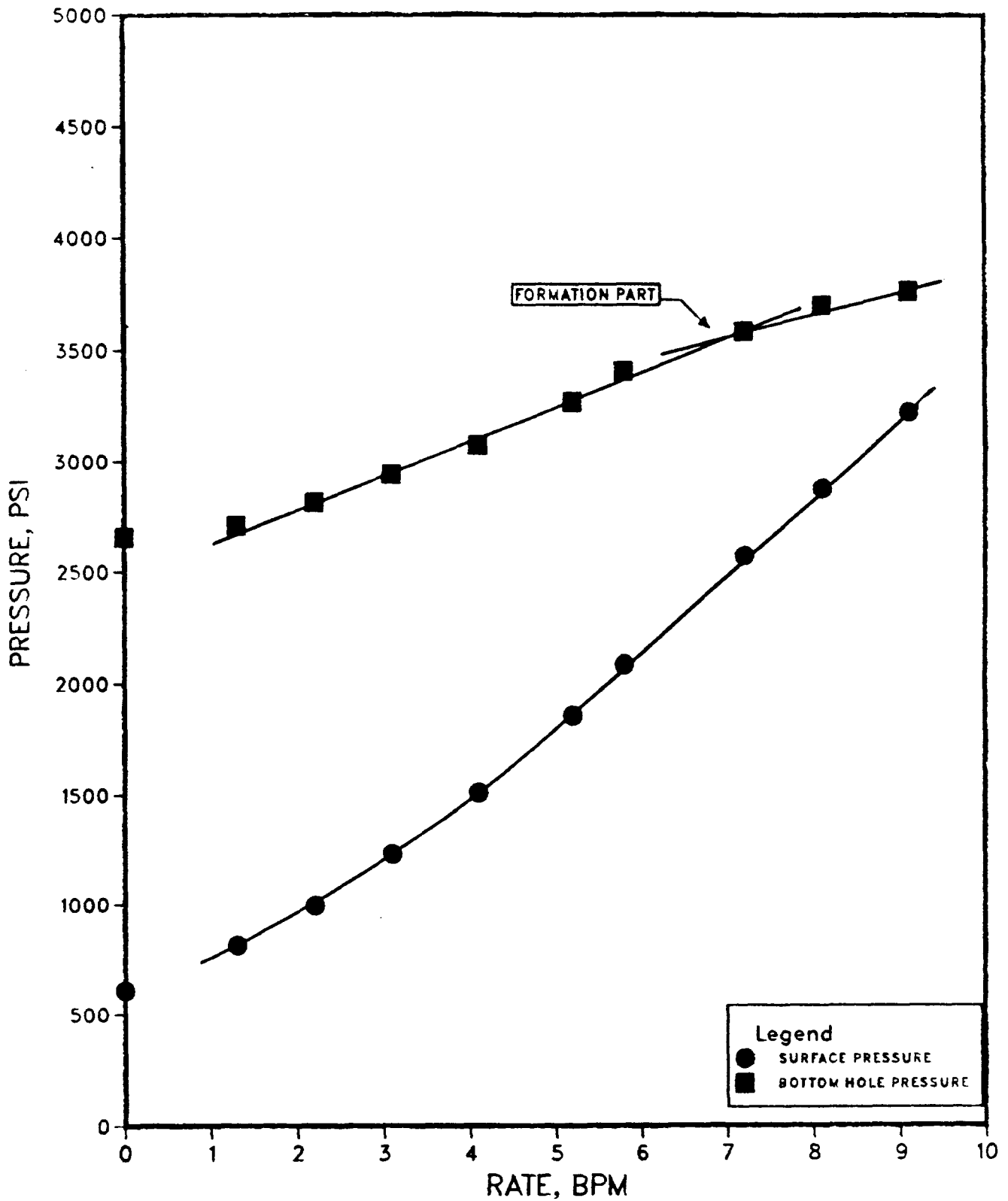
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0	0	610	2655
1.3	1872	815	2707
2.2	3168	995	2814
3.1	4464	1230	2942
4.1	5904	1510	3076
5.2	7488	1855	3271
5.8	8352	2085	3409
7.2	10368	2570	3585
8.1	11664	2875	3701
9.1	13104	3225	3765

*Measured at top perforation.

RE6.2/evgsau.t7

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3202, WELL NO. W008



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3202, Well No. W009

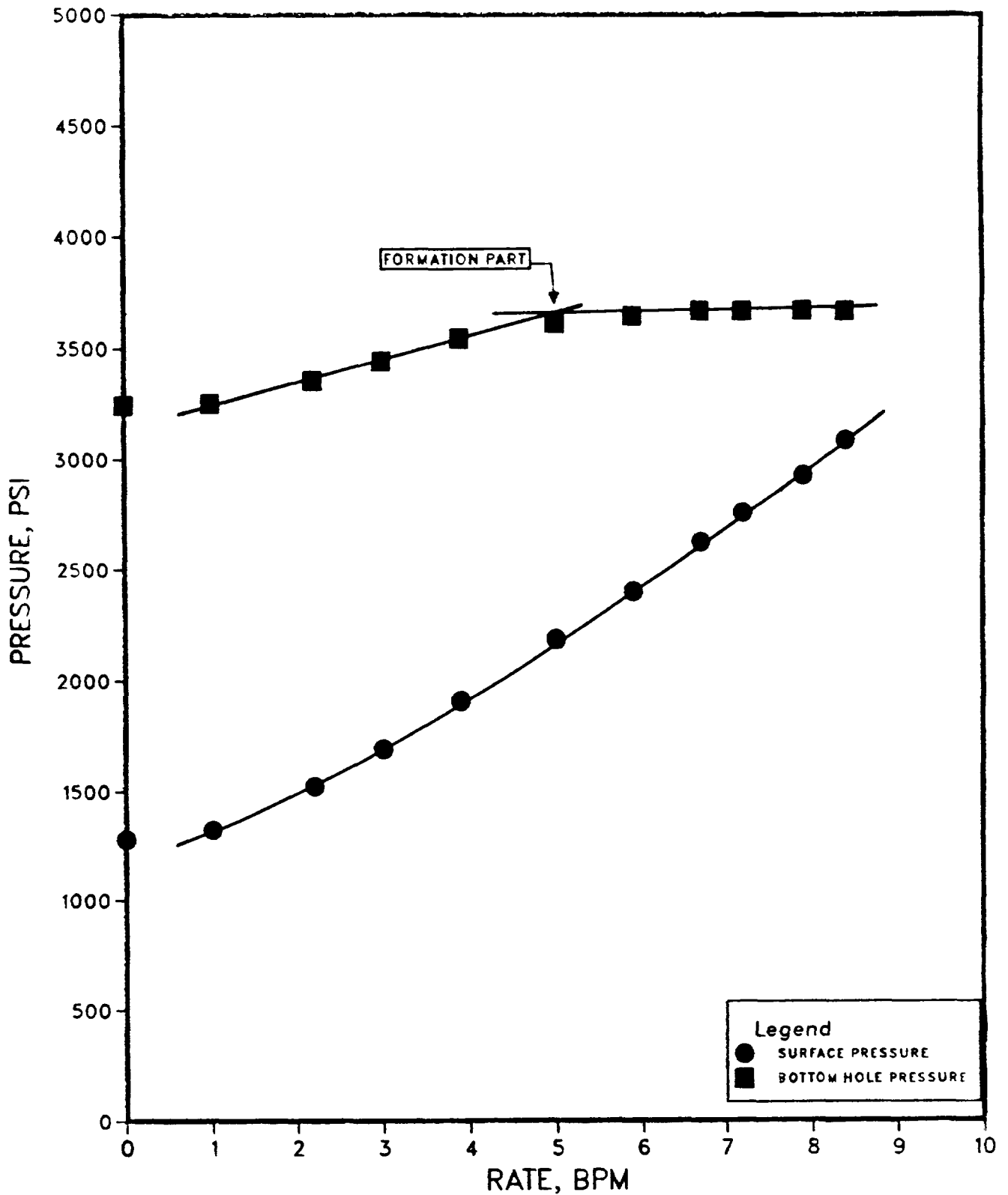
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	1280	3247
1.0	1440	1325	3253
2.2	3168	1525	3357
3.0	4320	1695	3445
3.9	5616	1910	3546
5.0	7200	2185	3613
5.9	8496	2400	3646
6.7	9648	2625	3671
7.2	10368	2760	3671
7.9	11376	2930	3674
8.4	12096	3090	3671

*Measured at top perforation.

RE6.2/evgsau.t8

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3202, WELL NO. W009



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3202, Well No. W011

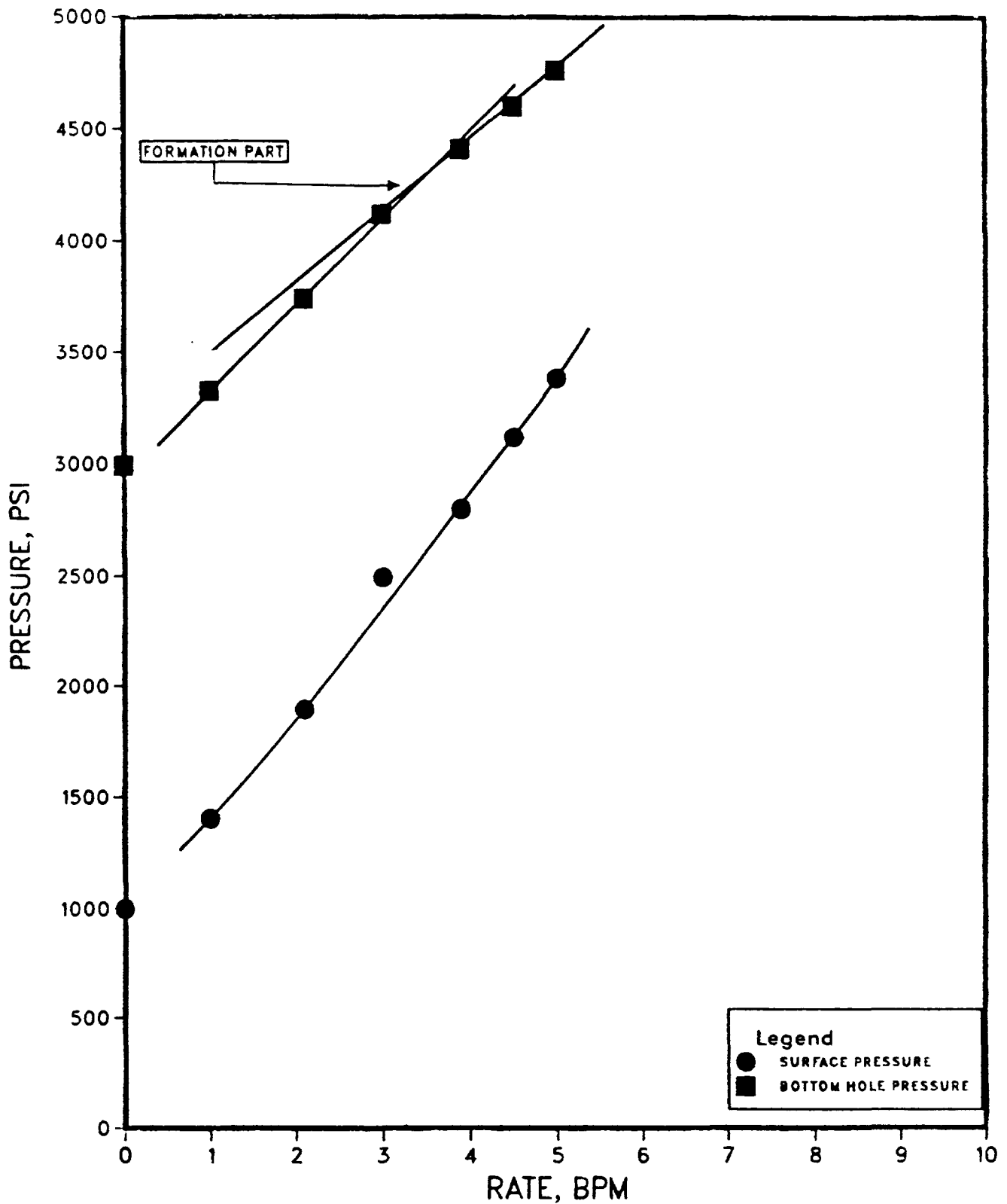
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> <u>(BPM)</u>	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	1000	2991
1.0	1440	1405	3326
2.1	3024	1895	3744
3.0	4320	2495	4125
3.9	5616	2800	4415
4.5	6480	3120	4604
5.0	7200	3385	4765

*Measured at top perforation.

RE6.2/evgsau.t10

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3202, WELL NO. W011



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3202, Well No. W013

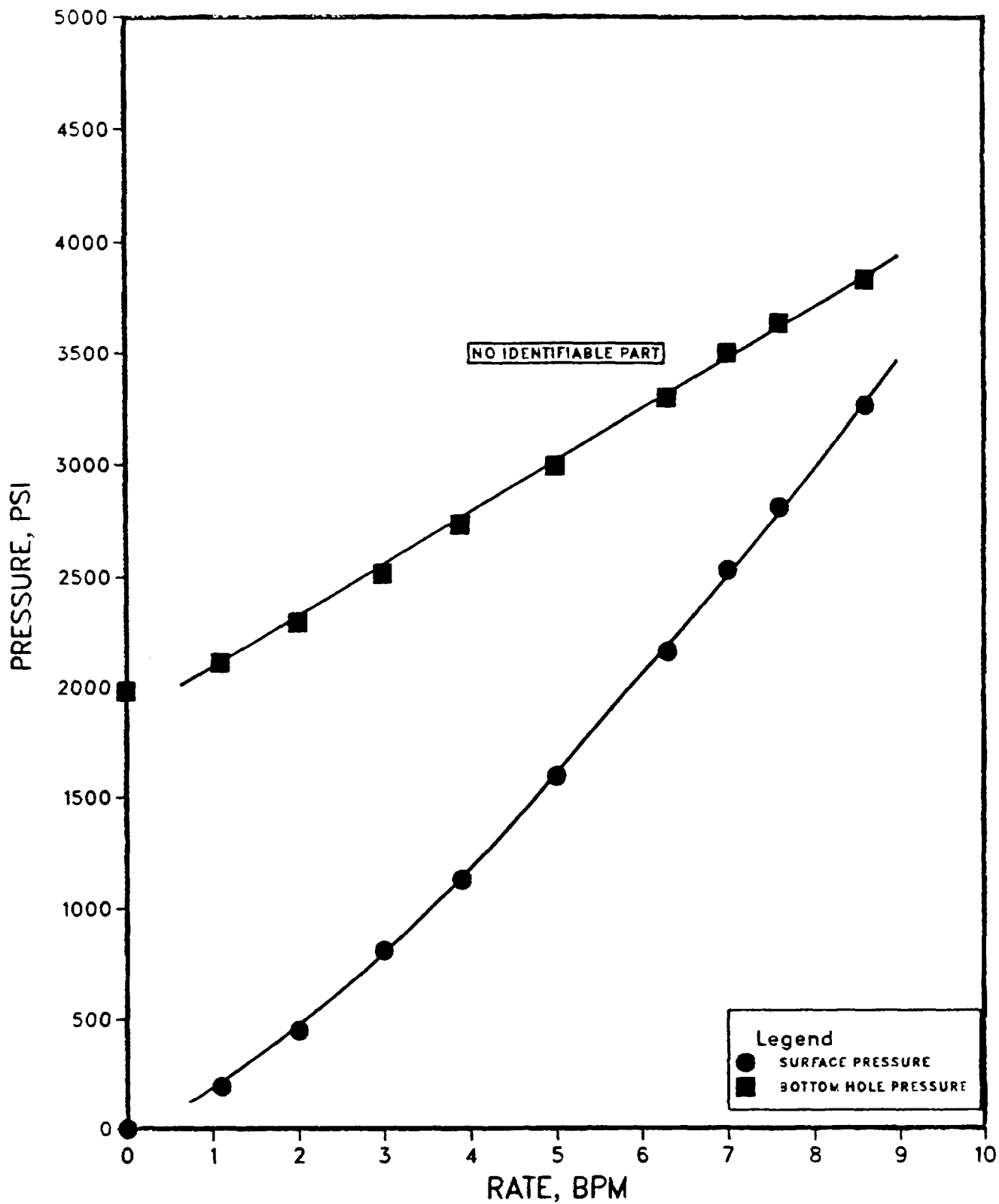
FORMATION PARTING PRESSURE TEST DATA

<u>INJECTION RATE</u> <u>(BPM)</u>	<u>(BPD)</u>	<u>PRESSURE (PSI)</u>	
		<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0.0	0	1982
1.1	1584	195	2113
2.0	2880	450	2296
3.0	4320	815	2515
3.9	5616	1130	2732
5.0	7200	1595	2994
6.3	9072	2165	3299
7.0	10080	2530	3503
7.6	10944	2810	3640
8.6	12384	3265	3838

*Measured at top perforation.

RE6.2/evgsau.t11

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3202, WELL NO. W013



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3229, Well No. W006

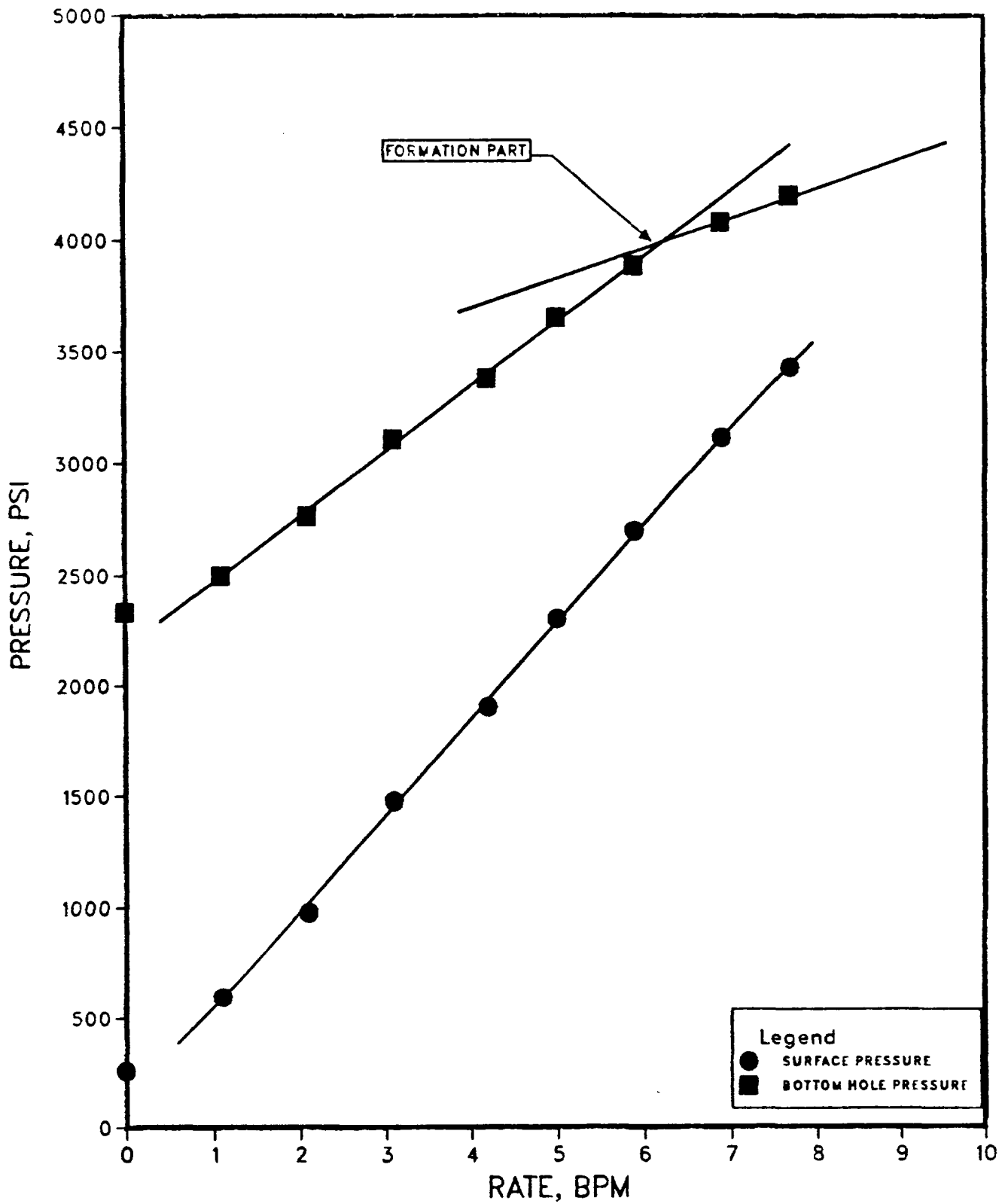
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	260	2334
1.1	1584	600	2499
2.1	3024	980	2764
3.1	4464	1480	3109
4.2	6048	1905	3380
5.0	7200	2305	3657
5.9	8496	2700	3892
6.9	9936	3115	4084
7.7	11088	3430	4203

*Corrected to depth of top perforation.

RE6.2/evgsau.t12

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3229, WELL NO. W006



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3229, Well No. W007

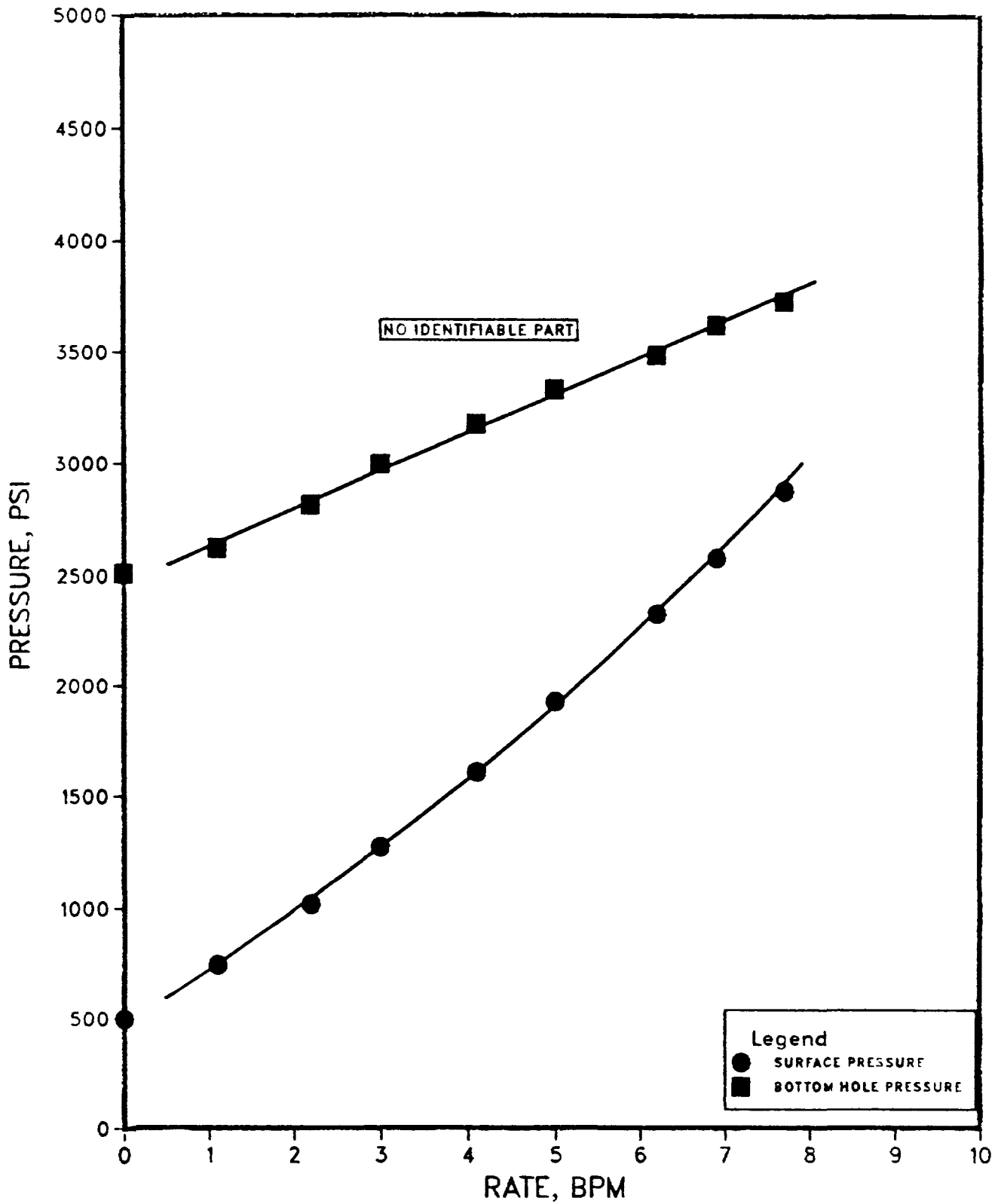
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	500	2512
1.1	1584	750	2622
2.2	3168	1020	2817
3.0	4320	1275	2997
4.1	5904	1610	3177
5.0	7200	1930	3332
6.2	8928	2330	3488
6.9	9936	2580	3625
7.7	11088	2880	3732

*Measured at top perforation.

RE6.2/evgsau.t13

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3229, WELL NO. W007



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3229, Well No. W008

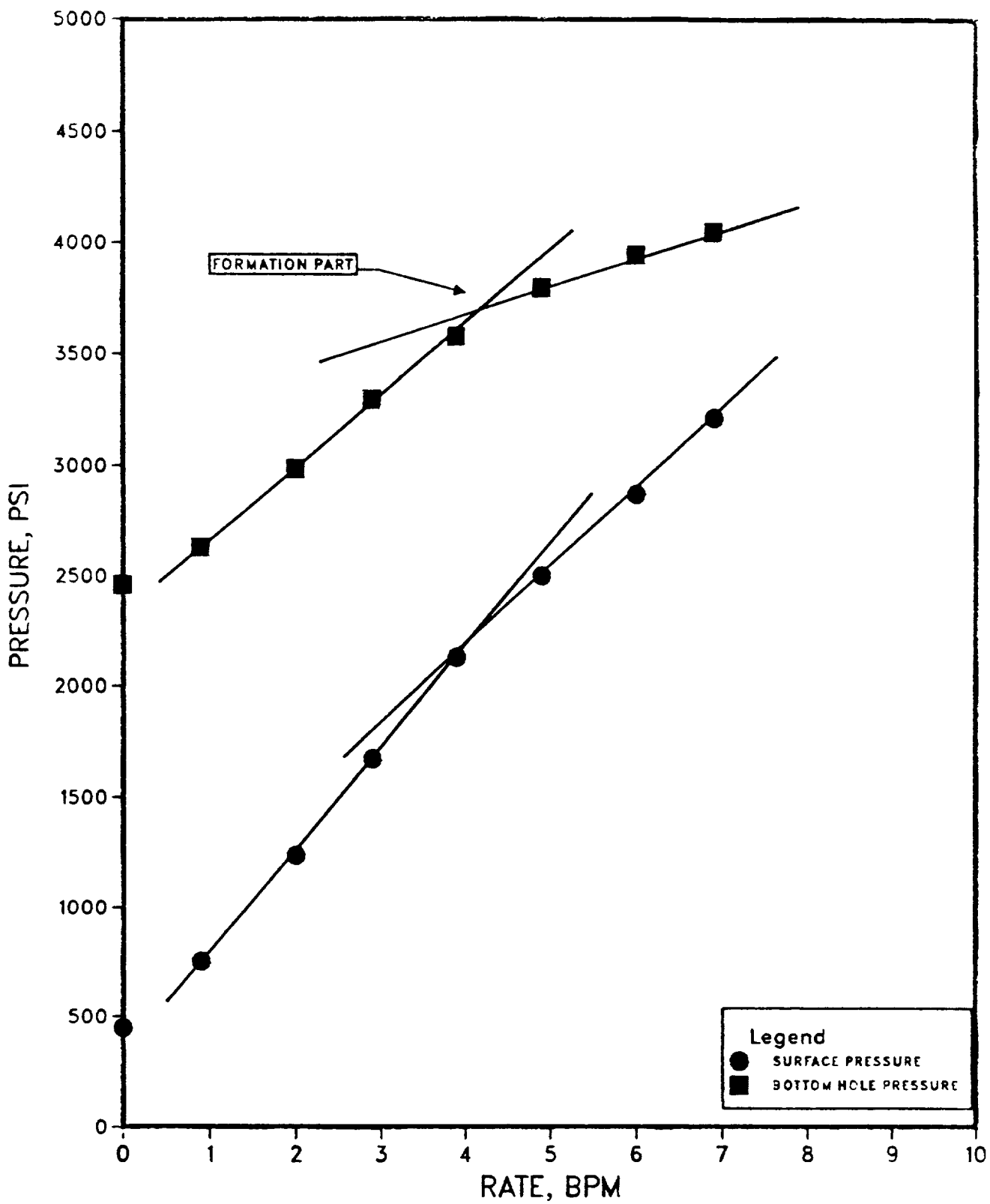
FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	450	2459
0.9	1296	755	2630
2.0	2880	1240	2987
2.9	4176	1675	3298
3.9	5616	2130	3581
4.9	7056	2500	3798
6.0	8640	2875	3947
6.9	9936	3215	4051

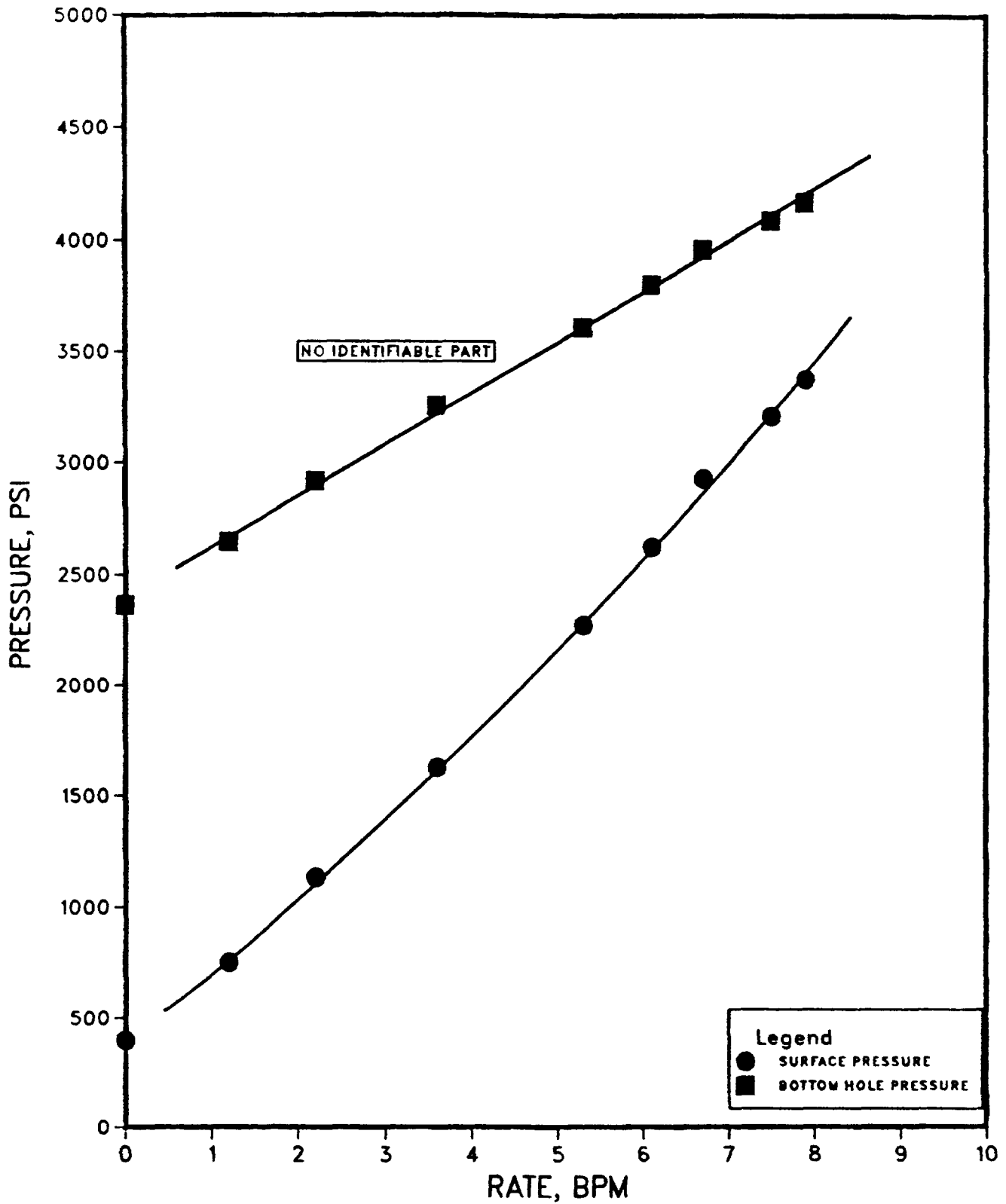
*Corrected to depth of top perforation.

RE6.2/evgsau.t14

EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3229, WELL NO. W008



EVGSAU FORMATION PARTING PRESSURE TEST TRACT 3236, WELL NO. W006



EAST VACUUM GRAYBURG - SAN ANDRES UNIT

Tract 3236, Well No. W006

FORMATION PARTING PRESSURE TEST DATA

INJECTION RATE		PRESSURE (PSI)	
<u>(BPM)</u>	<u>(BPD)</u>	<u>SURFACE</u>	<u>BOTTOM HOLE *</u>
0.0	0	400	2363
1.2	1728	755	2646
2.2	3168	1135	2918
3.6	5184	1630	3256
5.3	7632	2275	3610
6.1	8784	2625	3805
6.7	9648	2930	3963
7.5	10800	3210	4091
7.9	11376	3375	4171

*Measured at top perforation.

RE6.2/evgsau.t15



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

June 19, 1979

REVISED EXHIBITS, Unit Agreement
and Unit Operating Agreement,
East Vacuum Grayburg-San Andres
Unit, Lea County, New Mexico

Energy Minerals Department
State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dan Nutter
Chief Engineer

Gentlemen:

Effective May 1, 1979, Texaco Inc. assigned to Phillips Petroleum Company all of its 0.15587 percent working interest in the East Vacuum Grayburg-San Andres Unit, limited to the Grayburg-San Andres formation, under Tract No. 2980 (SE/4, NW/4, Section 29, T-17-S, R-33-E). Attached is Revised Page 9 of Exhibit "B" to the Unit Agreement. This page replaces the present Page 9.

Attached also is Revision No. 1 to Exhibit "C"--Part A (Tract Sequence) and Part B (Owner Sequence) of the Unit Operating Agreement. This revision is due to the above and the fact that there was a total overproduction of 1,216 barrels at the time of unitization. This overproduction, as defined by Article No. 15 of the Unit Agreement, was from various operators and results in a slight change in the "Composite" Unit Participation.

Very truly yours,
PHILLIPS PETROLEUM COMPANY

J. W. Maharg, Chairman
Working Interest Owners Committee

RJR:dva
Attachments

cc: Mr. Jason W. Kellahin
P. O. Box 1769
Santa Fe, New Mexico 87501
Attachments

TRACT NO.	LEASE NAME AND LAND DESCRIPTION	NO. OF ACRES	NEW MEXICO		BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY OWNER AND AMOUNT	WORKING INT. OWNER	% W.I. IN TRACT	% TRACT PARTICIPATION	
			STATE LSE. NO.	E-7585						INITIAL	FINAL
2980	Crusader Texas State SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 29 T-17-S, R-35-E	40.00	E-7585	E-7585	.125	Texaco, Inc.	None	Phillips Petroleum Company	100.00	-	.15587
1881	Cities Service State 2 SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 18, T-17-S, R-35-E	40.00	K-6023-1	K-6023-1	.125	Elk Oil Co.	John M. Kelly Est. .075	Elk Oil Co. Joseph J. Kelly John M. Kelly Est.	45.00 5.00 50.00	-	.09265
1982	Cities Service State 2 NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 19, T-17-S, R-35-E	40.00	K-6023-1	K-6023-1	.125	Elk Oil Co.	John M. Kelly Est. .075	Elk Oil Co. Joseph J. Kelly John M. Kelly Est.	45.00 5.00 50.00	-	.13018
2083	Cities Service State 1 SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 20, T-17-S, R-35-E	40.00	K-6023-1	K-6023-1	.125	Elk Oil Co.	John M. Kelly Est. .075	Elk Oil Co. Joseph J. Kelly John M. Kelly Est.	45.00 5.00 50.00	-	.05126

EXHIBIT "C"--PART A
 TO UNIT OPERATING AGREEMENT
 EAST VACUUM GRAYBURG-SAN ANDRES UNIT
 LEA COUNTY, NEW MEXICO

REVISION NO. 1--May 1, 1979
 Page No. 1

TRACT SEQUENCE
EFFECTIVE DECEMBER 1, 1978

Tract No.	Working Interest Owner	Working Interest in Tract, Percent	Unit Participation, Percent		
			Initial	Final	Composite
0434	Marathon Oil Company	100.00000	.06395	.05966	.06043
0449	Phillips Petroleum Company	100.00000	1.82837	1.61531	1.65417
0524	Phillips Petroleum Company	100.00000	5.88423	4.14654	4.46351
0546	Phillips Petroleum Company	100.00000	4.91331	4.84507	4.85751
0577	Shell Oil Company	100.00000	.60190	.22541	.29409
1825	Mobil Oil Corporation	100.00000	.12327	.07567	.08435
1826	Mobil Oil Corporation	100.00000	.24714	.08909	.11792
1881	Elk Oil Company	45.00000	--	.04169	.03409
	Joseph J. Kelly	5.00000	--	.00463	.00379
	John M. Kelly Estate	50.00000	--	.04633	.03788
1903	Exxon Company, U.S.A.	100.00000	--	.62367	.50990
1904	Atlantic Richfield Company	100.00000	.06411	.58090	.48663
1910	H. M. Bettis, Inc.	18.00000	.02370	.06498	.05745
	W. T. Boyle and Company	18.00000	.02370	.06498	.05745
	Norman D. Stovall, Jr.	18.00000	.02370	.06498	.05745
	Turnco, Inc.	18.00000	.02370	.06498	.05746
	S. B. Street and Company	18.00000	.02370	.06498	.05745
	Larry O. Hulsey	10.00000	.01318	.03609	.03191
1911	Shell Oil Company	100.00000	--	.25707	.21017
1912	Crown Central Petroleum Corp.	100.00000	.01092	.13261	.11042
1943	Phillips Petroleum Company	100.00000	.03964	.15124	.13088
1952	Marathon Oil Company	100.00000	--	.14278	.11674
1953	Marathon Oil Company	50.00000	--	.09214	.07533
	Shell Oil Company	50.00000	--	.09214	.07534
1961	Mobil Oil Corporation	100.00000	.08302	.08458	.08428
1978	Shell Oil Company	100.00000	--	.10264	.08392
1982	Elk Oil Company	45.00000	--	.05858	.04789
	Joseph J. Kelly	5.00000	--	.00651	.00533
	John M. Kelly Estate	50.00000	--	.06509	.05322
2054	H. M. Bettis, Inc.	18.00000	.00263	.02095	.01760
	W. T. Boyle and Company	18.00000	.00264	.02095	.01761
	Norman D. Stovall, Jr.	18.00000	.00264	.02095	.01761
	Turnco, Inc.	18.00000	.00264	.02094	.01761
	S. B. Street and Company	18.00000	.00264	.02094	.01761
	Larry O. Hulsey	10.00000	.00146	.01164	.00978
2059	Millard Deck	62.50000	.08831	.01019	.02444
	John R. Bryant	12.50000	.01766	.00204	.00489
	L. O. Box	25.00000	.03533	.00408	.00978
2060	Phillips Petroleum Company	100.00000	.43773	.37941	.39006
2079	Crown Central Petroleum Corp.	100.00000	.01082	.07001	.05921
2083	Elk Oil Company	45.00000	--	.02307	.01885
	Joseph J. Kelly	5.00000	--	.00256	.00210
	John M. Kelly Estate	50.00000	--	.02563	.02096
2109	Shell Oil Company	100.00000	--	.05420	.04432

Tract No.	Working Interest Owner	Working Interest in Tract, Percent	Unit Participation, Percent		
			Initial	Final	Composite
2150	Phillips Petroleum Company	100.00000	.02695	.13931	.11880
2155	Phillips Petroleum Company	100.00000	.09904	.16750	.15502
2175	Mobil Oil Corporation	100.00000	.25813	.23742	.24120
2206	Amerada Hess Corporation	100.00000	--	.08543	.06984
2207	Kokomo Oil Company	5.25000	.00549	.00236	.00294
	T. W. Lattie	31.25000	.02742	.01181	.01466
	D. E. Tadtke	31.25000	.02742	.01181	.01466
	Davis Payne	31.25000	.02742	.01181	.01466
2230	Atlantic Richfield Company	100.00000	.34300	.30083	.30852
2270	Petro-Service, Inc.	43.75000	.01630	.03128	.02855
	C. W. Scott	6.25000	.00233	.00447	.00408
	Kokomo Oil Company	6.25000	.00233	.00447	.00408
	Kenneth Maddiff	5.00000	.00186	.00358	.00326
	Arapaho Petroleum, Inc.	6.25000	.00233	.00447	.00407
	T. W. Lattie	10.83330	.00404	.00774	.00707
	D. E. Tadtke	10.83330	.00404	.00774	.00707
	Davis Payne	10.83340	.00404	.00775	.00707
2271	Mobil Oil Corporation	100.00000	.13155	.17975	.17095
2335	Sohio Petroleum Company	33.33334	.06713	.08332	.08037
	Donaldson Brown Trust A/C 1	15.83333	.03189	.03957	.03817
	Donaldson Brown Trust A/C 2	.83333	.00168	.00208	.00201
	Fort Worth National Bank Trustee No. 1979	50.00000	.10069	.12497	.12054
2416	Shell Oil Company	100.00000	--	.18642	.15241
2418	Atlantic Richfield Company	100.00000	.13176	.30137	.27043
2437	Atlantic Richfield Company	100.00000	.87720	.16590	.29565
2469	Neville W. Lenoire Estate	33.33334	.00056	.03326	.02729
	Donaldson Brown Trust A/C 1	15.83333	.00027	.01580	.01296
	Donaldson Brown Trust A/C 2	.83333	.00001	.00083	.00069
	Mrs. Mary B. Fleming Walsh	50.00000	.00085	.04988	.04094
2505	Phillips Petroleum Company	100.00000	.29267	.22031	.23351
2576	Great Western Drilling Company	32.23800	.02287	.02929	.02811
	Davoil, Inc.	17.76200	.01260	.01613	.01550
	Amoco Production Company	50.00000	.03547	.04542	.04360
2614	Atlantic Richfield Company	100.00000	.51529	.42296	.43980
2622	Phillips Petroleum Company	100.00000	3.96585	1.47884	1.93252
2631	Phillips Petroleum Company	100.00000	.58700	.57020	.57323
2642	Phillips Petroleum Company	100.00000	.15483	.09621	.10690
2648	Phillips Petroleum Company	100.00000	.44568	.54475	.52668
2658	Phillips Petroleum Company	100.00000	.24243	.33494	.31806
2672	Mobil Oil Corporation	100.00000	.20862	.63057	.55361
2717	Shell Oil Company	100.00000	1.59428	1.41489	1.44760
2720	Cities Service Company	100.00000	3.95617	1.01965	1.55530
2721	Phillips Petroleum Company	100.00000	2.85287	2.44676	2.52085
2738	Chevron U.S.A., Inc.	100.00000	.85895	1.49111	1.37580
2739	Chevron U.S.A., Inc.	100.00000	3.57513	2.99166	3.09808
2801	Exxon Company, U.S.A.	100.00000	3.36943	5.34834	4.98736
2819	Shell Oil Company	100.00000	.91257	.92386	.92180

EXHIBIT "C"--PART A (TRACT SEQUENCE)
EFFECTIVE DECEMBER 1, 1978
EAST VACUUM GRAYBURG-SAN ANDRES UNIT

REVISION No. 1-- May 1, 1979
Page No. 3

Tract No.	Working Interest Owner	Working Interest in Tract, Percent	Unit Participation, Percent		
			Initial	Final	Composite
2851	Pennzoil Company	81.25000	.04720	.25296	.21541
	Jack D. Hensley	3.12500	.00181	.00973	.00829
	Boyd Laughlin	1.56250	.00091	.00486	.00414
	Hamilton E. McRae	1.56250	.00091	.00486	.00414
	Wainoco Oil and Gas Company	12.50000	.00726	.03892	.03315
2864	Phillips Petroleum Company	100.00000	.08098	.37561	.32187
2865	Pennzoil Company	81.25000	.06252	.08188	.07835
	Jack D. Hensley	3.12500	.00241	.00315	.00302
	Boyd Laughlin	1.56250	.00120	.00158	.00150
	Hamilton E. McRae	1.56250	.00120	.00158	.00151
	Wainoco Oil and Gas Company	12.50000	.00962	.01259	.01206
2913	Atlantic Richfield Company	100.00000	1.75146	2.00209	1.95638
2923	Phillips Petroleum Company	100.00000	.08595	.40873	.34985
2941	Phillips Petroleum Company	100.00000	.04540	.36837	.30945
2944	Phillips Petroleum Company	100.00000	.00902	.28466	.23438
2947	Phillips Petroleum Company	100.00000	--	.37286	.30485
2957	Shell Oil Company	100.00000	.20489	.46592	.41830
2962	Shell Oil Company	100.00000	--	.27131	.22183
2963	Shell Oil Company	100.00000	.91042	.66249	.70770
2980	Phillips Petroleum Company	100.00000	--	.15587	.12745
3127	Mobil Oil Corporation	100.00000	4.43564	4.57057	4.54596
3202	Exxon Company, U.S.A.	100.00000	9.53857	10.46326	10.29458
3229	Atlantic Richfield Company	100.00000	5.74378	7.01489	6.78304
3236	Chevron U.S.A., Inc.	100.00000	4.81994	3.56440	3.79342
3308	Getty Oil Company	100.00000	2.05778	1.28872	1.42900
3315	Shell Oil Company	100.00000	4.72528	4.13554	4.24313
3328	Getty Oil Company	100.00000	1.51919	1.77571	1.72892
3332	Phillips Petroleum Company	100.00000	2.91244	3.46424	3.36357
3333	Marathon Oil Company	100.00000	2.90007	4.14916	3.92131
3345	Phillips Petroleum Company	100.00000	1.46480	1.31282	1.34055
3366	Phillips Petroleum Company	100.00000	1.48641	1.44414	1.45184
3373	Phillips Petroleum Company	100.00000	1.48621	1.61649	1.59273
3374	Mobil Oil Corporation	100.00000	1.52442	1.54153	1.53840
3440	Chevron U.S.A., Inc.	100.00000	4.17424	3.06316	3.26585
3456	Mobil Oil Corporation	100.00000	5.93605	5.46508	5.55098
3467	Phillips Petroleum Company	100.00000	1.65754	2.38560	2.25281
3568	Phillips Petroleum Company	100.00000	--	.12795	.10462
GRAND TOTAL			100.00000	100.00000	100.00000

EXHIBIT "C"--PART B
TO UNIT OPERATING AGREEMENT
EAST VACUUM GRAYBURG-SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

OWNER SEQUENCE
EFFECTIVE DECEMBER 1, 1978

Working Interest Owner	Tract No.	Unit Participation, Percent		
		Initial	Final	Composite
Amerada Hess Corporation	2206	--	.08543	.06984
Amoco Production Company	2576	.03547	.04542	.04360
Arapaho Petroleum, Inc.	2270	.00233	.00447	.00407
Atlantic Richfield Company	1904	.06411	.58090	.48663
	2230	.34300	.30083	.30852
	2418	.13176	.30137	.27043
	2437	.87720	.16590	.29565
	2614	.51529	.42296	.43980
	2913	1.75146	2.00209	1.95638
	3229	5.74378	7.01489	6.78304
OWNER TOTAL		9.42660	10.78894	10.54045
H. M. Bettis, Inc.	1910	.02370	.06498	.05745
	2054	.00263	.02095	.01760
OWNER TOTAL		.02633	.08593	.07505
L. O. Box	2059	.03533	.00408	.00978
W. T. Boyle and Company	1910	.02370	.06498	.05745
	2054	.00264	.02095	.01761
OWNER TOTAL		.02634	.08593	.07506
Donaldson Brown Trust A/C 1	2335	.03189	.03957	.03817
	2469	.00027	.01580	.01296
OWNER TOTAL		.03216	.05537	.05113
Donaldson Brown Trust A/C 2	2335	.00168	.00208	.00201
	2469	.00001	.00083	.00069
OWNER TOTAL		.00169	.00291	.00270
John R. Bryant	2059	.01766	.00204	.00489
Chevron U.S.A., Inc.	2738	.85895	1.49111	1.37580
	2739	3.57513	2.99166	3.09808
	3236	4.81994	3.56440	3.79342
	3440	4.17424	3.06316	3.26585
OWNER TOTAL		13.42826	11.11033	11.53315
Cities Service Company	2720	3.95617	1.01965	1.55530
Crown Central Petroleum Corp.	1912	.01092	.13261	.11042
	2079	.01082	.07001	.05921
OWNER TOTAL		.02174	.20262	.16963
Davoll, Inc.	2576	.01260	.01613	.01550
Millard Deck	2059	.08831	.01019	.02444
Elk Oil Company	1881	--	.04169	.03409
	1982	--	.05858	.04789
	2083	--	.02307	.01885
OWNER TOTAL		--	.12334	.10083
Exxon Company, U.S.A.	1903	--	.62367	.50990
	2801	3.36943	5.34834	4.98736
	3202	9.53857	10.46326	10.29458
OWNER TOTAL		12.90800	16.43527	15.79184
Fort Worth National Bank Trustee No. 1979	2335	.10069	.12497	.12054
Getty Oil Company	3308	2.05778	1.28872	1.42900
	3328	1.51919	1.77571	1.72892
OWNER TOTAL		3.57697	3.06443	3.15792
Great Western Drilling Company	2576	.02287	.02929	.02811

Working Interest Owner	Tract No.	Unit Participation, Percent		
		Initial	Final	Composite
Jack D. Hensley	2851	.00181	.00973	.00829
	2865	.00241	.00315	.00302
	OWNER TOTAL	.00422	.01288	.01131
Larry O. Hulsey	1910	.01318	.03609	.03191
	2034	.00146	.01164	.00978
	OWNER TOTAL	.01464	.04773	.04169
John M. Kelly Estate	1881	--	.04633	.03788
	1982	--	.06509	.05322
	2083	--	.02563	.02096
	OWNER TOTAL	--	.13705	.11206
Joseph J. Kelly	1881	--	.00463	.00379
	1982	--	.00651	.00533
	2083	--	.00256	.00210
	OWNER TOTAL	--	.01370	.01122
Kokomo Oil Company	2207	.00549	.00236	.00294
	2270	.00233	.00447	.00408
	OWNER TOTAL	.00782	.00683	.00702
Boyd Laughlin	2851	.00091	.00486	.00414
	2865	.00120	.00158	.00150
	OWNER TOTAL	.00211	.00644	.00564
T. W. Little	2207	.02742	.01181	.01466
	2270	.00404	.00774	.00707
	OWNER TOTAL	.03146	.01955	.02173
Hamilton E. McRae	2851	.00091	.00486	.00414
	2865	.00120	.00158	.00151
	OWNER TOTAL	.00211	.00644	.00565
Marathon Oil Company	0434	.06395	.05966	.06043
	1952	--	.14278	.11674
	1953	--	.09214	.07533
	3333	2.90007	4.14916	3.92131
	OWNER TOTAL	2.96402	4.44374	4.17381
Kenneth Midkiff	2270	.00186	.00358	.00326
Mobil Oil Corporation	1825	.12327	.07567	.08435
	1826	.24714	.08909	.11792
	1961	.08302	.08458	.08428
	2175	.25813	.23742	.24120
	2271	.13155	.17975	.17095
	2672	.20862	.63057	.55361
	3127	4.43564	4.57057	4.54596
	3374	1.52442	1.54153	1.53840
	3456	5.93605	5.46508	5.55098
	OWNER TOTAL	12.94784	12.87426	12.88765
Davis Payne	2207	.02742	.01181	.01466
	2270	.00404	.00775	.00707
OWNER TOTAL	.03146	.01956	.02173	
Pennzoil Company	2851	.04720	.25296	.21541
	2865	.06252	.08188	.07835
OWNER TOTAL	.10972	.33484	.29376	
Neville G. Penrose Estate	2469	.00056	.03326	.02729
Petro-Search, Inc.	2270	.01630	.03128	.02855
Phillips Petroleum Company	0449	1.82837	1.61531	1.65417
	0524	5.88423	4.14654	4.46351
	0546	4.91331	4.84507	4.85751
	1943	.03964	.15124	.13088
	2060	.43773	.37941	.39006
	2150	.02695	.13931	.11880
	2155	.09904	.16750	.15502
	2505	.29267	.22031	.23351

EXHIBIT "C"--PART B (OWNER SEQUENCE)
 EFFECTIVE DECEMBER 1, 1978
 EAST VACUUM GRAYBURG-SAN ANDRES UNIT

REVISION NO. 1--May1, 1979
 Page No. 3

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation, Percent</u>		
		<u>Initial</u>	<u>Final</u>	<u>Composite</u>
Phillips Petroleum Company (Continued)	2622	3.96585	1.47884	1.93252
	2631	.58700	.57020	.57323
	2642	.15483	.09621	.10690
	2648	.44568	.54475	.52668
	2658	.24243	.33494	.31806
	2721	2.85287	2.44676	2.52085
	2864	.08098	.37561	.32187
	2923	.08595	.40873	.34985
	2941	.04540	.36837	.30945
	2944	.00902	.28466	.23438
	2947	--	.37286	.30485
	2980	--	.15588	.12745
	3332	2.91244	3.46424	3.36357
	3345	1.46480	1.31282	1.34055
	3366	1.48641	1.44414	1.45184
	3373	1.48621	1.61649	1.59273
	3467	1.65754	2.38560	2.25281
	3568	--	.12795	.10462
	OWNER TOTAL	30.99935	29.45373	29.73567
D. E. Radtke	2207	.02742	.01181	.01466
	2270	.00404	.00774	.00707
	OWNER TOTAL	.03146	.01955	.02173
C. W. Seely	2270	.00233	.00447	.00408
Shell Oil Company	0577	.60190	.22541	.29409
	1911	--	.25707	.21017
	1953	--	.09214	.07534
	1978	--	.10264	.08392
	2109	--	.05420	.04432
	2416	--	.18642	.15241
	2717	1.59428	1.41489	1.44760
	2819	.91257	.92386	.92180
	2957	.20489	.46592	.41830
	2962	--	.27131	.22183
	2963	.91042	.66249	.70770
	3315	4.72528	4.13554	4.24313
	OWNER TOTAL	8.94934	8.79189	8.82061
Sohio Petroleum Company	2335	.06713	.08332	.08037
Norman D. Stovall, Jr.	1910	.02370	.06498	.5745
	2054	.00264	.02095	.01761
	OWNER TOTAL	.02634	.08593	.07506
S. B. Street and Company	1910	.02370	.06498	.05745
	2054	.00264	.02094	.01761
	OWNER TOTAL	.02634	.08592	.07506
Turnco, Inc.	1910	.02370	.06498	.05746
	2054	.00264	.02094	.01761
	OWNER TOTAL	.02634	.08592	.07507
Wainoco Oil and Gas Company	2851	.00726	.03892	.03315
	2865	.00962	.01259	.01206
	OWNER TOTAL	.01688	.05151	.04521
Mrs. Mary D. Fleming Walsh	2469	.00085	.04988	.04094
	GRAND TOTAL	100.00000	100.00000	100.00000

Unit Name EAST VACUUM(GRAYBURG-SAN ANDRES) UNIT (WATERFLOOD)
 Operator Phillips Petroleum Company
 County Lea

DATE	OCC CASE NO.	6366	EFFECTIVE DATE	TOTAL ACREAGE	STATE	FEDERAL	INDIAN-FEE	SEGREGATION CLAUSE	TERM
APPROVED	OCC ORDER NO.	R-5871							
Commissioner	Commission		12-1-78	7,025.21	7,025.21	-0-	-0-	Yes	So Long As
11-22-78									

UNIT AREA

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
 Section 24: SE/4

STATUTORY UNITIZATION ALL ACREAGE COMMITTED

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
 Section 18: W/2SW/4, SE/4SW/4
 Section 19: W/2, S/2NE/4, SE/4
 Section 20: W/2NW/4, SE/4NW/4, SW/4, SW/4NE/4, W/2SE/4, SE/4SE/4
 Section 21: SW/4SW/4, E/2SW/4, SE/4
 Section 22: SW/4, W/2SE/4, SE/4SE/4
 Section 23: S/2SW/4
 Section 24: SW/4SW/4
 Section 25: W/2NW/4
 Section 26: N/2, SW/4, W/2SE/4, NE/4SE/4
 Sections 27, 28, 29: All
 Section 31: N/2SE/4, SE/4SE/4
 Sections 32, 33, All
 Section 34: N/2, SW/4, NW/4SE/4
 Section 35: N/2NW/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
 Section 4: N/2NW/4, NW/4NE/4
 Section 5: N/2, NW/4SW/4

Unit Name _____
 Operator _____
 County _____

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	ACREAGE		LESSEE
							RATIFIED DATE	NOT RATIFIED	
2801	A-1320	C.S.	28	17S	35E	S/2	320.00		Exxon Company
3202	A-1320	C.S.	32	17S	35E	E/2	320.00		Exxon Company
1903	B-936	C.S.	19	17S	35E	(Lots 3 & 4) W/2SW/4	75.38		Exxon Company
1904	B-936-18	C.S.	19	17S	35E	E/2SW/4	80.00		Atlantic Richfield Company
2505	B-960	C.S.	25	17S	35E	NW/4NW/4	40.00		Phillips Petroleum Company
2206	B-1040-7	C.S.	22	17S	35E	NE/4SW/4	40.00		Amerada-Hess Corporation
2207	B-1040-8	C.S.	22	17S	35E	NW/4SW/4	40.00		Blaris Production Corporation
3308	B-1334	C.S.	33	17S	35E	N/2NW/4	80.00		Getty Oil Company
2109	B-1398-5	C.S.	21	17S	35E	NE/4SE/4	40.00		Shell Oil Company
1910	B-1398-14	C.S.	19	17S	35E	NW/4SE/4, SE/4SE/4	80.00		Joe B. Singer
1911	B-1398-21	C.S.	19	17S	35E	SW/4SE/4	40.00		Shell Oil Company
1912	B-1398-24	C.S.	19	17S	35E	NE/4SE/4	40.00		Crown Central Petroleum Corporation
2913	B-1399-10	C.S.	29	17S	35E	SE/4	160.00		Atlantic Richfield Company
2614	B-1399-10	C.S.	26	17S	35E	W/2SE/4	80.00		Shell Oil Company
3315	B-1400-3	C.S.	33	17S	35E	SE/4	160.00		Shell Oil Company
2416	B-1404-2	C.S.	24	17S	34E	NE/4SE/4	40.00		Shell Oil Company
2717	B-1404-2	C.S.	27	17S	35E	E/2SE/4	80.00		Shell Oil Company
2418	B-1404-3	C.S.	24	17S	34E	SE/4SE/4	40.00		Atlantic Richfield Company

Unit Name EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT (WATERFLOOD)
 Operator Phillips Petroleum Company
 County Lea

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	DATE	ACREAGE		LESSEE
								ACRES	NOT RATIFIED	
2819	B-1423-1	C.S.	28	17S	35E	W/2NE/4, SE/4NE/4		120.00		Shell Oil Company
2720	B-1482-3	C.S.	27	17S	35E	NE/4		160.00		Cities Service Company
2721	B-1497	C.S.	27	17S	35E	S/2SW/4		80.00		Phillips Pet. Co.
2622	B-1497	C.S.	26	17S	35E	NW/4, SW/4NE/4		200.00		Phillips Pet. Co.
2923	B-1501 B-1501-2	C.S. C.S.	29 29	17S 17S	35E 35E	SW/4NE/4, NE/4NW/4 NW/4NW/4		80.00 40.00		Phillips Pet. Co. Phillips Pet. Co.
0524	B-1502	C.S.	5	18S	35E	NW/4		159.95		Phillips Pet. Co.
1825	B01518	C.S.	18	17S	35E	(Lot 4) SW/4SW/4		37.66		Mobil Oil Corporation
1826	B-1527	C.S.	18	17S	35E	(Lot 3) NW/4SW/4		37.64		Mobil Oil Corporation
3127	B-1527	C.S.	31	17S	35E	N/2SE/4, SE/4SE/4		120.00		Mobil Oil Corporation
3328	B-1565-2	C.S.	33	17S	35E	SW/4SW/4		40.00		Getty Oil Company
3229	B-1576-3	C.S.	32	17S	35E	SW/4		160.00		Atlantic Richfield Co.
2230	B-1585-5	C.S.	22	17S	35E	S/2SW/4		80.00		Atlantic Richfield Co.
2631	B-1608	C.S.	26	17S	35E	NW/4SW/4, NE/4SE/4		80.00		Phillips Pet. Co.
3332	B-1608	C.S.	33	17S	35E	N/2NE/4		80.00		Phillips Pet. Co.
3333	B-1713-1	C.S.	33	17S	35E	SE/4NW/4, S/2NE/4		120.00		Marathon Oil Company
0434	B-1713-1	C.S.	4	18S	35E	NW/4NE/4		39.78		Marathon Oil Company
2335	B-1713-5	C.S.	23	17S	35E	S/2SW/4		80.00		Sohio Petroleum Co.

Unit Name EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT (WATERFLOOD)
 Operator PHILLIPS PETROLEUM COMPANY
 County LEA

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	DATE	RATIFIED ACRES	ACREAGE		LESSEE
									NOT RATIFIED	RATIFIED	
3236	B-1838-1	C.S.	32	17S	35E	NW/4		160.00			Chevron USA Inc.
2437	B-1838-3	C.S.	24	17S	34E	W/2SE/4		80.00			Atlantic Richfield Co.
2738	B-1839-1	C.S.	27	17S	35E	NW/4		160.00			Chevron USA Inc.
2739	B-1840-1	C.S.	27	17S	35E	N/2SW/4, W/2SE/4		160.00			Chevron USA Inc.
3440	B-1845-1	C.S.	34	17S	35E	SW/4, NW/4SE/4		200.00			Chevron USA Inc.
2941	B-1861	C.S.	29	17S	35E	NE/4SW/4		40.00			Phillips Pet. Co.
2642	B-1861	C.S.	26	17S	35E	SE/4NE/4		40.00			Phillips Pet. Co.
1943	B-2073	C.S.	19	17S	35E	SE/4NE/4		40.00			Phillips Pet. Co.
2944	B-2073	C.S.	29	17S	35E	N/2NE/4		80.00			Phillips Pet. Co.
3345	B-2073	C.S.	33	17S	35E	SE/4SW/4		40.00			Phillips Petroleum Co.
0546	B-2073	C.S.	5	18S	35E	NE/4		159.85			Phillips Petroleum Co.
2947	B-2131	C.S.	29	17S	35E	SE/4NE/4		40.00			Phillips Petroleum Co.
2648	B-2131	C.S.	26	17S	35E	S/2SW/4		80.00			Phillips Petroleum Co.
0449	B-2131	C.S.	4	18S	35E	N/2NW/4		79.70			Phillips Petroleum Co.
2150	B-2224	C.S.	21	17S	35E	SE/4SE/4		40.00			Phillips Petroleum Co.
2851	B-2224	C.S.	28	17S	35E	NE/4NE/4		40.00			Phillips Petroleum Co.
1952	B-2245	C.S.	19	17S	35E	SE/4NW/4		40.00			Marathon Oil Company
1953	B-2245	C.S.	19	17S	35E	SW/4NE/4		40.00			Marathon Oil Company & Shell Oil Co.

Unit Name EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT (WATERFLOOD)
 Operator PHILLIPS PETROLEUM COMPANY
 County LEA

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	DATE	ACREAGE		LESSEE
								ACRES	NOT RATIFIED	
2155	B-22264-1 B-22264-4	C.S. C.S.	21 21	17S 17S	35E 35E	SW/4SE/4 NW/4SE/4		40.00 40.00		Phillips Pet. Co. Phillips Pet. Co.
3456	B-22273-2	C.S.	34	17S	35E	NW/4		160.00		Mobil Oil Corp.
2957	B-22284-2	C.S.	29	17S	35E	NW/4SW/4		40.00		Shell Oil Company
2658	B-2360-1	C.S.	26	17S	35E	NE/4SW/4		40.00		Phillips Pet. Co.
2059	B-2388	C.S.	20	17S	35E	SE/4NW/4, SW/4NE/4		80.00		Phillips Pet. Co.
2060	B-2388 B-2388-2	C.S. C.S.	20 20	17S 17S	35E 35E	SE/4SE/4, SE/4SW/4, NW/4SE/4 NE/4SW/4, SW/4SE/4		120.00 80.00		Phillips Pet. Co. Phillips Pet. Co.
1961	B-2423-4	C.S.	19	17S	35E	(Lot 2) SW/4NW/4		37.68		Mobil Oil Corporation
2962	B-2423-12	C.S.	29	17S	35E	SW/4NW/4		40.00		Shell Oil Company
2963	B-2423-12	C.S.	29	17S	35E	S/2SW/4		80.00		Shell Oil Company
2864	B-2498	C.S.	28	17S	35E	W/2NW/4, NE/4NW/4		120.00		Phillips Pet. Co.
2865	B-2498	C.S.	28	17S	35E	SE/4NW/4		40.00		Phillips Pet. Co.
3366	B-2517	C.S.	33	17S	35E	SW/4NW/4		40.00		Phillips Pet. Co.
3467	B-2519	C.S.	34	17S	35E	NE/4		160.00		Phillips Pet. Co.
3568	B-2519	C.S.	35	17S	35E	N/2NW/4		80.00		Phillips Pet. Co.
2469	B-2531-7	P.B.	24	17S	35E	SW/4SW/4		40.00		Nevill G. Penrose Est. & William Fleming
2270	B-2735	C.S.	22	17S	35E	NW/4SE/4		40.00		Mobil Oil Corporation
2271	B-2735	C.S.	22	17S	35E	S/2SE/4		80.00		Mobil Oil Corporation

Unit Name EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT (WATERFLOOD)
 Operator PHILLIPS PETROLEUM COMPANY
 County LEA

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	ACREAGE		LESSEE
							RATIFIED DATE	NOT RATIFIED	
2672	B-2735	C.S.	22	17S	35E	S/2SE/4	80.00		Mobil Oil Corporation
3373	B-2862-3	C.S.	33	17S	35E	NE/4SW/4	40.00		Phillips Pet. Co.
3374	B-2863-1	C.S.	33	17S	35E	NW/4SW/4	40.00		Mobil Oil Corporation
2175	B-2956	C.S.	21	17S	35E	NE/4SW/4, S/2SW/4	120.00		Mobil Oil Corporation
2576	B-7428-2	C.S.	25	17S	35E	SW/4NW/4	40.00		Great Western Drilling Company
0577	E-6504	C.S.	5	18S	35E	NW/4SW/4	40.00		Shell Oil Company
1978	E-7259	C.S.	19	17S	35E	(Lot 1) NW/4NW/4	37.66		Shell Oil Company
2079	E-7259-4	C.S.	20	17S	35E	NW/4NW/4	40.00		Crown Central Pet. Co.
2980	E-7585	C.S.	29	17S	35E	SE/4NW/4	40.00		Texaco, Inc.
1881	K-6023-1	C.S.	18	17S	35E	SE/4SW/4	40.00		EIK Oil Company
1982	K-6023-1	C.S.	19	17S	35E	NE/4NW/4	40.00		EIK Oil Company
2083	K-6023-1	C.S.	20	17S	35E	SW/4NW/4	40.00		EIK Oil Company



PHILLIPS PETROLEUM COMPANY

HOUSTON, TEXAS 77001
BOX 1967 6910 FANNIN ST.

NATURAL RESOURCES GROUP
Exploration and Production

December 20, 1978

Re: East Vacuum Grayburg-San Andres
Unit
Lea County, New Mexico

*File
Cases 6366*

Mr. Dan Nutter
Energy & Minerals Dept.,
Oil Conservation Division
State of New Mexico
P. O. Box 2088
Santa Fe, N. M. 87501

Dear Dan:

Attached to complete your file are ratification forms signed in behalf of Getty Oil Company, Texaco Inc., and W. T. Boyle & Co. This brings the percentage of voluntary approval to:


Initial Phase	99.51620%
Final Phase	99.12954%

All major working interest owners other than Sohio, who owns less than one-tenth of one per cent, have now signed.

Much thanks for all your help. Hope the Holiday Season and all the days that follow are kind to you.

Yours very truly,

PHILLIPS PETROLEUM COMPANY


J. E. Chrisman

JEC:mb
Attch.

cc: Jason W. Kellahin
P. O. Box 1769
Santa Fe, N. M. 87501

John Maharg
Odessa Office

RATIFICATION OF AGREEMENTS ENTITLED
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"
EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT
LEA COUNTY, NEW MEXICO

KNOW ALL PERSONS BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of a royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, each of the undersigned owners of a working interest or interests hereby acknowledges receipt of a true and correct copy of said Unit Agreement, and a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Operating Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Operating Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which will become a part of the Unit; and

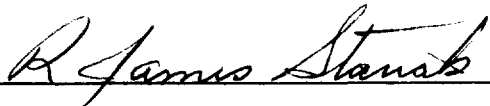
WHEREAS, each of the undersigned represents that it is a Royalty Owner or Working Interest Owner, or both, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Royalty Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and each undersigned Working Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and said Unit Operating Agreement.

NOW THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests and royalty interest or interests does hereby ratify and confirm said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth below opposite its signature.

DATE: 11 / 22 / 78



ATTORNEY-IN-FACT

DATE: / / 78

RATIFICATION OF AGREEMENTS ENTITLED
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"
EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT
LEA COUNTY, NEW MEXICO

KNOW ALL PERSONS BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of a royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, each of the undersigned owners of a working interest or interests hereby acknowledges receipt of a true and correct copy of said Unit Agreement, and a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Operating Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Operating Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which will become a part of the Unit; and

WHEREAS, each of the undersigned represents that it is a Royalty Owner or Working Interest Owner, or both, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Royalty Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and each undersigned Working Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and said Unit Operating Agreement.

NOW THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests and royalty interest or interests does hereby ratify and confirm said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth below opposite its signature.

DATE: 11/1/78

[Signature]

DATE: 1/1/78

[Signature]

SINGLE ACKNOWLEDGMENT

STATE OF X

COUNTY OF X

The foregoing instrument was acknowledged before me this _____
day of 1st Dec, 1978, by W T Boyle.

Mendall
Notary Public in and for Spring
County, Miss

My Commission Expires:
7-23-1980

CORPORATE ACKNOWLEDGMENT

STATE OF X

COUNTY OF X

The foregoing instrument was acknowledged before me this 10
day of Dec, 1978, BY W T Boyle
for W T Boyle Company,
a corporation, on behalf of said corporation.

Mendall
Notary Public in and for Spring
County, Miss

My Commission Expires:
7-23-1980

RATIFICATION OF AGREEMENTS ENTITLED
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"
EAST VACUUM (GRAYBURG-SAN ANDRES) UNIT
LEA COUNTY, NEW MEXICO

KNOW ALL PERSONS BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of a royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, each of the undersigned owners of a working interest or interests hereby acknowledges receipt of a true and correct copy of said Unit Agreement, and a true and correct copy of that certain agreement dated September 1, 1978, entitled "Unit Operating Agreement, East Vacuum (Grayburg-San Andres) Unit, Lea County, New Mexico," which said agreement is hereinafter referred to as the Unit Operating Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which will become a part of the Unit; and

WHEREAS, each of the undersigned represents that it is a Royalty Owner or Working Interest Owner, or both, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Royalty Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and each undersigned Working Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement and said Unit Operating Agreement.

NOW THEREFORE, each of the undersigned who is the owner of a royalty interest or interests only does hereby ratify and confirm said Unit Agreement, and each of the undersigned who is the owner of a working interest or interests only or the owner of both a working interest or interests and royalty interest or interests does hereby ratify and confirm said Unit Agreement and said Unit Operating Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth below opposite its signature.

APPROVED AS TO: DATE: 22 Nov/78 TEXACO INC.
Contract WAT
Terms AK BY [Signature]
Form WAT Attorney-in-Fact

STATE OF TEXAS |
COUNTY OF MIDLAND |

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared _____, Attorney-in-Fact for TEXACO INC., known to me to be the person whose name is subscribed to the foregoing instrument, who acknowledged to me that he executed the same as the act and deed of the said TEXACO INC., for the purposes and consideration and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 22nd day of November, 1978.

[Signature]
Notary Public in and for
Midland County, Texas



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

January 25, 1979

Certificate of Effectiveness and
Recording Information--East Vacuum
Grayburg--San Andres Unit,
Lea County, New Mexico

Energy Minerals Department
State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dan Nutter
Chief Engineer

Gentlemen:

Attached are two copies of the Certificate of Effectiveness for the subject unit.

For your information, the following shows the recording information for the instruments filed to date in Lea County, New Mexico, pertaining to this unit:

1. Unit Agreement--Miscellaneous Records Book 356, Pages 86 through 107.
Recorded as attachments to Unit Agreement:
 - a. Ratifications to Unit and Unit Operating Agreements--Miscellaneous Records Book 356, Pages 108 through 157.
 - b. Statutory Unitization Order--Miscellaneous Records Book 356, Pages 158 through 163.
2. Unit Operating Agreement--Miscellaneous Records Book 356, Pages 164 through 191.
3. New Mexico State Land Office, Certificate of Approval--Miscellaneous Records Book 356, Page 192.
4. Certificate of Effectiveness--Miscellaneous Records Book 356, Page 284.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

J. W. Maharg, Chairman
Working Interest Owners Committee

RJR:dva
Attachments

cc: Mr. Jason W. Kellahin
P. O. Box 1769
Santa Fe, New Mexico 87501
Attachment

*File 6368
Case 100*

Misc 356 PAGE 284

CERTIFICATE OF EFFECTIVENESS

EAST VACUUM GRAYBURG-SAN ANDRES UNIT
LEA COUNTY NEW MEXICO

WHEREAS, that certain Unit Agreement and Unit Operating Agreement, East Vacuum Grayburg-San Andres Unit, Lea County, New Mexico, dated September 1, 1978, have been executed or ratified by Working Interest Owners owning a combined Participation of at least seventy-five percent (75%) and a counterpart of said Unit Agreement has been filed in the Office of County Clerk of Lea County, New Mexico, in Volume 356, Page 86, of the Miscellaneous Records; and,

WHEREAS, the Oil Conservation Division of the State of New Mexico by Order No. R-5871, dated November 27, 1978, did approve statutory unitization, pursuant to the "Statutory Unitization Act", Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation; and,

WHEREAS, said Unit Agreement was approved by the Commissioner of Public Lands of the State of New Mexico on November 22, 1978, and said Unit Agreement provides in Section 25 thereof, that the agreement shall become effective as of 7:00 o'clock A.M. of the first day of the calendar month next following approval by the Commission; and,

WHEREAS, under the terms of said Section 25, Unit Operator is instructed, within thirty (30) days after the effective date of said agreement, to file for record a certificate to the effect that the agreement became effective according to its terms and stating further the effective date;

NOW THEREFORE, Phillips Petroleum Company, Unit Operator of the East Vacuum Grayburg-San Andres Unit, does hereby certify and declare that said unit became effective as of 7:00 o'clock A.M., December 1, 1978.

IN WITNESS WHEREOF, Phillips Petroleum Company has executed this certificate on this 18th day of December, 1978.

PHILLIPS PETROLEUM COMPANY

BY: Fred Forward
Fred Forward, Attorney-in-Fact

STATE OF TEXAS X
 X
COUNTY OF ECTOR X

The foregoing instrument was acknowledged before me this 18th day of December, 1978, by Fred Forward, Attorney-in-Fact of Phillips Petroleum Company, a Delaware corporation, on behalf of said corporation.

STATE OF NEW MEXICO
COUNTY OF LEA
FILED

Dorothy V. Anderson Dorothy V. Anderson
Notary Public in and for Ector County, Texas
My commission expires the 30th day of June, 1980.

DEC 28 1978

at 11:30 o'clock 9 M
and recorded in Book 356
Page 284
Donna Benge, County Clerk

56461

1-2

Misc
356 PAGE 284

CERTIFICATE OF EFFECTIVENESS

EAST VACUUM GRAYBURG-SAN ANDRES UNIT
LEA COUNTY NEW MEXICO

WHEREAS, that certain Unit Agreement and Unit Operating Agreement, East Vacuum Grayburg-San Andres Unit, Lea County, New Mexico, dated September 1, 1978, have been executed or ratified by Working Interest Owners owning a combined Participation of at least seventy-five percent (75%) and a counterpart of said Unit Agreement has been filed in the Office of County Clerk of Lea County, New Mexico, in Volume 356, Page 86, of the Miscellaneous Records; and,

WHEREAS, the Oil Conservation Division of the State of New Mexico by Order No. R-5871, dated November 27, 1978, did approve statutory unitization, pursuant to the "Statutory Unitization Act", Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation; and,

WHEREAS, said Unit Agreement was approved by the Commissioner of Public Lands of the State of New Mexico on November 22, 1978, and said Unit Agreement provides in Section 25 thereof, that the agreement shall become effective as of 7:00 o'clock A.M. of the first day of the calendar month next following approval by the Commission; and,

WHEREAS, under the terms of said Section 25, Unit Operator is instructed, within thirty (30) days after the effective date of said agreement, to file for record a certificate to the effect that the agreement became effective according to its terms and stating further the effective date;

NOW THEREFORE, Phillips Petroleum Company, Unit Operator of the East Vacuum Grayburg-San Andres Unit, does hereby certify and declare that said unit became effective as of 7:00 o'clock A.M., December 1, 1978.

IN WITNESS WHEREOF, Phillips Petroleum Company has executed this certificate on this 18th day of December, 1978.

PHILLIPS PETROLEUM COMPANY

BY: Fred Forward
Fred Forward, Attorney-in-Fact

STATE OF TEXAS X
 X
COUNTY OF ECTOR X

The foregoing instrument was acknowledged before me this 18th day of December, 1978, by Fred Forward, Attorney-in-Fact of Phillips Petroleum Company, a Delaware corporation, on behalf of said corporation.

STATE OF NEW MEXICO
COUNTY OF LEA
FILED

Dorothy V. Anderson
Notary Public in and for Ector County, Texas
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Handwritten initials



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION

JERRY APODACA
 GOVERNOR

NICK FRANKLIN
 SECRETARY

POST OFFICE BOX 2088
 STATE LAND OFFICE BUILDING
 SANTA FE, NEW MEXICO 87501
 (505) 827-2434

Re: CASE NO. 6366
 ORDER NO. R-5871

Mr. Jason Kellahin
 Kellahin & Fox
 Attorneys at Law
 Post Office Box 1769
 Santa Fe, New Mexico

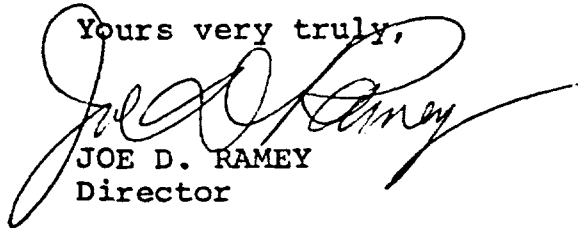
Applicant:

Phillips Petroleum Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,



JOE D. RAMEY
 Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
 Artesia OCC x
 Aztec OCC

Other _____
