

REPORT

INTEGRATED GEOTHERMAL WELL TESTING
PART IIC: TEST EXPERIENCES AT MAPCO'S CURRIER 2
- CHEMICAL DATA

PREPARED BY

DR. O. J. VETTER (VR) AND
DR. R. W. NICHOLSON (WPT)

The logo for Water Research features the word "WATER" in a stylized, outlined font, followed by "RESEARCH" in a solid, bold font. The text is underlined with a double-line effect.

3189C AIRWAY AVE. - COSTA MESA - CALIFORNIA 92626

SUBMITTED TO

UNITED STATES DEPARTMENT OF ENERGY
DIVISION OF GEOTHERMAL ENERGY

DISTRIBUTION LIST:

MR. DAN SLAGLE, MAPCO GEOTHERMAL	5 COPIES
MR. BILL BATES, McCULLOCH GEOTHERMAL	5 COPIES
MR. TOM COOK, REPUBLIC GEOTHERMAL	5 COPIES
MR. A. ADDUCI, U.S. DEPARTMENT OF ENERGY DIV. OF GEOTHERMAL ENERGY	5 COPIES
MR. C. McFARLAND	1 COPY
DR. O. J. VETTER, VETTER RESEARCH	1 COPY
DR. R. W. NICHOLSON, WELL PRODUCTION TESTING	1 COPY
VR FILE	4 COPIES
WPT FILE	3 COPIES

DATE OF ISSUANCE:

UR REPORT NO:

SIGNATURE(S):



INTRODUCTION

This Part IIC is the third section of three sections of Part II of Integrated Geothermal Well Testing. This section contains the chemical data obtained from Mapco's Currier II - 30 day well test. This test was conducted during June, 1980 at the Currier site. Discussions of the data contained herein are in Part IIA. The field data (pressures, temperatures, flow rates, etc.) are in Part IIB.

TABLE OF CONTENTS

(PART IIC)

	<u>Page</u>
INTRODUCTION	I
TABLE 1 - BRINE ANALYSES/BRINE DOWNSTREAM OF REACTOR (12 O'CLOCK POSITION-SAMPLE STATION 05-02) (AA & WET CHEMISTRY DATA).	1
TABLE 2 - ICP DATA	10
TABLE 3 - SI02 CONCENTRATION IN BRINE TREATMENT FACILITY .	15
TABLE 4 - STEAM CONDENSATE ANALYSES/STEAM DOWNSTREAM LOW PRESSURE SEPARATOR-C02 (SAMPLE STATION 03-02)	18
TABLE 5 - STEAM CONDENSATE ANALYSES/STEAM DOWNSTREAM LOW PRESSURE SEPARATOR-N2 AND C1 (SAMPLE STATION 03-02)	21
TABLE 6 - BRINE ANALYSES (BRINE DOWNSTREAM LOW PRESSURE SEPARATOR (3 O'CLOCK POSITION) (SAMPLE STATION 04-01)	24
TABLE 7 - STEAM CONDENSATE ANALYSES/STEAM DOWNSTREAM LOW PRESSURE SEPARATOR (SAMPLESTATION 03-02) ICP DATA	28
TABLE 8 - BRINE ANALYSES/BRINE DOWNSTREAM OF REACTOR (12 O'CLOCK POSITION-SAMPLE STATION 05-02) ADIABATIC FLASHING IN CURRIER #2	35

TABLE 1

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

BRINE ANALYSES/BRINE DOWNSTREAM OF REACTOR

(12 O'CLOCK POSITION-SAMPLE STATION 05-02)

(AA & WET CHEMISTRY DATA)

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
1	6/ 4/80	9:45: 0	59200	160000	25200	635.	10100
2	6/ 4/80	11: 0: 0	61100	159000	24300	640.	9100
3	6/ 4/80	12: 0: 0	59400	161000	24600	644.	8800
4	6/ 4/80	13: 0: 0	60000	158000	24800	650.	N/R
5	6/ 4/80	14: 0: 0	58400	158000	24800	650.	8500
6	6/ 4/80	15: 0: 0	58400	157000	24700	640.	N/R
7	6/ 4/80	16: 0: 0	58300	N/A	24400	640.	N/R
8	6/ 4/80	17: 0: 0	59500	155000	24800	634.	9400
9	6/ 4/80	18: 0: 0	58700	161000	24300	635.	9500
10	6/ 4/80	19: 0: 0	56900	155000	23400	630.	N/R
11	6/ 4/80	20: 0: 0	57000	156000	21700	6330	9500
12	6/ 5/80	6: 0: 0	42000	111000	15000	630.	N/R
13	6/ 5/80	7:30: 0	44600	117000	16700	420.	9500
14	6/ 5/80	8: 0: 0	44500	117000	16300	420.	N/R
15	6/ 5/80	9: 0: 0	43600	106000	14800	440.	9400
16	6/ 5/80	10: 0: 0	43200	97200	15000	440.	N/R
17	6/ 5/80	10:30: 0	42000	100000	13300	440.	9500
18	6/ 5/80	11: 0: 0	39000	101000	14300	440.	N/R
19	6/ 5/80	11:30: 0	38600	104000	13800	440.	N/R
20	6/ 5/80	12: 0: 0	38600	102000	13800	440.	N/R
21	6/ 5/80	12:30: 0	39500	105000	13800	440.	N/R
22	6/ 5/80	13: 0: 0	37800	104000	15200	440.	5910
23	6/ 5/80	13:30: 0	39500	105000	14300	440.	N/R
24	6/ 5/80	0:14:30	39400	102000	14900	404.	5910
25	6/ 5/80	15: 0: 0	39200	98300	13800	390.	N/R
26	6/ 5/80	15:30: 0	44000	112000	17700	395.	6500
27	6/ 5/80	16: 0: 0	43600	108000	17600	357.	6500
28	6/ 5/80	16:30: 0	40600	109000	15600	422.	5400
29	6/ 5/80	17: 0: 0	40300	101000	14300	400.	6190
30	6/ 5/80	17:30: 0	44000	105000	14700	360.	N/R
31	6/ 5/80	18: 0: 0	45200	96700	14300	420.	N/R
32	6/ 5/80	18:30: 0	46800	97100	14800	380.	N/R
33	6/ 5/80	19: 0: 0	45200	106000	14600	380.	N/R
34	6/ 5/80	19:30: 0	46400	107000	15600	400.	N/R
35	6/ 5/80	21: 0: 0	45200	107000	15200	417.	6190
36	6/ 5/80	21:30: 0	43200	103000	14400	369.	5350
37	6/ 5/80	22: 0: 0	42800	106000	14200	404.	5980
38	6/ 5/80	23: 0: 0	44400	108000	14800	400.	N/R
39	6/ 5/80	24: 0: 0	44000	106000	14800	390.	5950
40	6/ 6/80	1: 0: 0	45200	102000	14400	390.	N/R
41	6/ 6/80	2: 0: 0	45600	102000	14200	390.	N/R
42	6/ 6/80	3: 0: 0	49600	111000	14600	390.	5920
43	6/ 6/80	4: 0: 0	46000	113000	14800	390.	N/R
44	6/ 6/80	5: 0: 0	47200	113000	16400	390.	N/R
45	6/ 6/80	6: 0: 0	48800	107000	16000	440.	N/R
46	6/ 6/80	6:30: 0	50000	116000	17200	466.	7120
47	6/ 6/80	7: 0: 0	50000	118000	17200	469.	7120

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.
 N/A Not applicable. Sample was acidified.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
95	6/ 7/80	12:30: 0	N/R	N/R	N/R	N/R	N/R
96	6/ 7/80	13: 0: 0	46500	107000	14200	502.	7490
97	6/ 7/80	13:30: 0	N/R	N/R	N/R	N/R	N/R
98	6/ 7/80	14: 0: 0	47000	106000	13900	470.	7350
99	6/ 7/80	14:30: 0	N/R	N/R	N/R	N/R	N/R
100	6/ 7/80	15: 0: 0	45000	107000	13800	460.	7400
101	6/ 7/80	15:30: 0	N/R	N/R	N/R	N/R	N/R
102	6/ 7/80	16: 0: 0	45000	106000	13800	460.	7350
103	6/ 7/80	16:30: 0	N/R	N/R	N/R	N/R	N/R
104	6/ 7/80	17: 0: 0	47000	110000	13900	470.	7550
105	6/ 7/80	17:30: 0	N/R	N/R	N/R	N/R	N/R
106	6/ 7/80	18: 0: 0	46000	109000	14300	460.	7100
107	6/ 8/80	9:30: 0	N/R	N/R	N/R	N/R	N/R
108	6/ 8/80	10: 0: 0	51000	112000	14100	500.	7850
109	6/ 8/80	10:30: 0	N/R	N/R	N/R	N/R	N/R
110	6/ 8/80	11: 0: 0	49000	114000	15200	510.	7750
111	6/ 8/80	10:30: 0	N/R	N/R	N/R	N/R	N/R
112	6/ 8/80	11: 0: 0	42000	111000	14100	522.	7960
113	6/ 8/80	11:30: 0	N/R	N/R	N/R	N/R	N/R
114	6/ 8/80	12: 0: 0	44000	111000	13600	490.	7750
115	6/ 8/80	12:30: 0	N/R	N/R	N/R	N/R	N/R
116	6/ 8/80	13: 0: 0	49000	111000	14000	490.	7700
117	6/ 8/80	13:30: 0	N/R	N/R	N/R	N/R	N/R
118	6/ 8/80	14: 0: 0	47500	112000	14300	510.	7940
119	6/ 8/80	14:30: 0	N/R	N/R	N/R	N/R	N/R
120	6/ 8/80	15: 0: 0	47000	112000	13800	490.	7750
121	6/ 8/80	18:30: 0	N/R	N/R	N/R	N/R	N/R
122	6/ 8/80	19: 0: 0	48000	112000	13700	500.	7900
123	6/ 8/80	20: 0: 0	N/R	N/R	N/R	N/R	N/R
124	6/ 8/80	20:30: 0	50000	114000	14300	510.	7850
125	6/ 8/80	21: 0: 0	N/R	N/R	N/R	N/R	N/R
126	6/ 8/80	24: 0: 0	48000	114000	14400	520.	8050
127	6/ 9/80	1: 0: 0	N/R	N/R	N/R	N/R	N/R
128	6/ 9/80	1:60: 0	50100	114000	14400	520.	8630
129	6/ 9/80	2: 0: 0	N/R	N/R	N/R	N/R	N/R
130	6/ 9/80	2: 0: 0	50100	118000	15400	510.	8050
131	6/ 9/80	4: 0: 0	49500	118000	15200	510.	N/R
132	6/ 9/80	5: 0: 0	N/R	N/R	N/R	N/R	N/R
133	6/ 9/80	6: 0: 0	49500	118000	14100	500.	7800
134	6/ 9/80	6:30: 0	N/R	N/R	N/R	N/R	N/R
139	6/ 9/80	14:45: 0	49000	117000	14200	500.	7750
141	6/ 9/80	15:15: 0	N/R	N/R	N/R	N/R	N/R
142	6/ 9/80	15:35: 0	43500	104000	13400	485.	7710
145	6/ 9/80	17: 0: 0	N/R	N/R	N/R	N/R	N/R
148	6/ 9/80	18: 0: 0	46000	109000	14100	500.	7550
149	6/ 9/80	19: 0: 0	N/R	N/R	N/R	N/R	N/R
150	6/ 9/80	20: 0: 0	46000	109000	13600	517.	7590

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
48	6/ 6/80	7:30: 0	48800	117000	17200	480.	7150
49	6/ 6/80	8: 0: 0	48800	122000	16800	520.	N/R
50	6/ 6/80	8:30: 0	50000	121000	17200	480.	6500
51	6/ 6/80	9: 0: 0	50800	123000	16800	520.	N/R
52	6/ 6/80	9:30: 0	49600	127000	17200	520.	6500
53	6/ 6/80	10: 0: 0	48100	118000	16200	540.	N/R
54	6/ 6/80	10:30: 0	48800	117000	17200	N/R	N/R
55	6/ 6/80	11: 0: 0	49600	122000	17200	N/R	5400
56	6/ 6/80	11:30: 0	49600	122000	16800	N/R	N/R
57	6/ 6/80	12: 0: 0	49200	127000	17200	N/R	N/R
58	6/ 6/80	12:30: 0	50000	126000	17200	N/R	N/R
59	6/ 6/80	13: 0: 0	50000	129000	17600	N/R	6190
60	6/ 6/80	13:30: 0	47600	126000	17200	N/R	N/R
61	6/ 6/80	14: 0: 0	49200	139000	16800	505.	N/R
62	6/ 6/80	14:30: 0	48000	139000	16800	N/R	N/R
63	6/ 6/80	15: 0: 0	46800	136000	18000	N/R	N/R
64	6/ 6/80	15:30: 0	48400	139000	17200	N/R	N/R
65	6/ 6/80	16: 0: 0	48000	119000	16800	N/R	N/R
66	6/ 6/80	16:30: 0	46800	114000	16800	N/R	N/R
67	6/ 6/80	17: 0: 0	48000	115000	16800	N/R	N/R
68	6/ 6/80	18:10: 0	48000	113000	16800	520.	N/R
69	6/ 6/80	18:30: 0	51200	119000	17600	N/R	N/R
70	6/ 6/80	19: 0: 0	56000	118000	17200	N/R	N/R
71	6/ 6/80	19:30: 0	55200	119000	17200	N/R	5350
72	6/ 6/80	20: 0: 0	49600	119000	17600	N/R	N/R
73	6/ 6/80	20:30: 0	48000	120000	17200	N/R	5980
74	6/ 6/80	21: 0: 0	50000	117000	18000	N/R	N/R
75	6/ 6/80	22: 0: 0	48400	119000	16600	530.	N/R
76	6/ 6/80	23: 0: 0	49600	128000	N/R	N/R	N/R
77	6/ 6/80	24: 0: 0	48800	120000	N/R	N/R	N/R
78	6/ 7/80	1: 0: 0	48000	118000	N/R	N/R	N/R
79	6/ 7/80	2: 0: 0	49600	119000	16400	520.	N/R
80	6/ 7/80	3: 0: 0	50800	120000	N/R	N/R	N/R
81	6/ 7/80	4: 0: 0	52000	121000	17800	490.	7200
82	6/ 7/80	5: 0: 0	50400	124000	N/R	N/R	N/R
83	6/ 7/80	6: 0: 0	52800	130000	17200	500.	5920
84	6/ 7/80	7: 0: 0	N/R	N/R	N/R	N/R	N/R
85	6/ 7/80	7:30: 0	47000	128000	16300	495.	8250
86	6/ 7/80	8: 0: 0	45000	115000	16200	490.	7500
87	6/ 7/80	8:30: 0	N/R	N/R	N/R	N/R	N/R
88	6/ 7/80	9: 0: 0	47500	121000	18600	494.	7320
89	6/ 7/80	9:30: 0	N/R	N/R	N/R	N/R	N/R
90	6/ 7/80	10: 0: 0	47000	118000	16500	490.	N/R
91	6/ 7/80	10:30: 0	46500	118000	16300	520.	8200
92	6/ 7/80	11: 0: 0	46200	119000	15600	530.	N/R
93	6/ 7/80	11:30: 0	46000	120000	18800	560.	7450
94	6/ 7/80	12: 0: 0	45000	114000	18100	490.	7340

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
151	6/10/80	6:30: 0	52000	120000	15000	580.	8730
152	6/10/80	7: 0: 0	N/R	N/R	N/R	N/R	N/R
153	6/10/80	8: 0: 0	53500	118000	14700	550.	8450
154	6/10/80	9: 0: 0	N/R	N/R	N/R	N/R	N/R
155	6/10/80	10: 0: 0	51500	118000	14600	570.	9550
156	6/10/80	11: 0: 0	N/R	N/R	N/R	N/R	N/R
157	6/10/80	12: 0: 0	51000	118000	14800	530.	8500
158	6/10/80	13: 0: 0	N/R	N/R	N/R	N/R	N/R
159	6/10/80	14: 0: 0	51000	118000	15200	520.	8850
160	6/10/80	15: 0: 0	N/R	N/R	N/R	N/R	N/R
161	6/10/80	16: 0: 0	50500	118000	14600	490.	8450
162	6/10/80	17: 0: 0	N/R	N/R	N/R	N/R	N/R
163	6/10/80	18: 0: 0	50500	118000	14500	480.	8300
164	6/10/80	19: 0: 0	N/R	N/R	N/R	N/R	N/R
165	6/10/80	20: 0: 0	50500	118000	15100	550.	8400
166	6/10/80	21: 0: 0	N/R	N/R	N/R	N/R	N/R
167	6/10/80	22: 0: 0	50000	118000	15300	540.	8000
168	6/10/80	23: 0: 0	N/R	N/R	N/R	N/R	N/R
169	6/10/80	24: 0: 0	51000	118000	15400	567.	8840
170	6/11/80	1: 0: 0	52500	118000	15700	565.	9560
171	6/11/80	2: 0: 0	N/R	N/R	N/R	N/R	N/R
172	6/11/80	4: 0: 0	48500	117000	14600	500.	8100
173	6/11/80	5: 0: 0	N/R	N/R	N/R	N/R	N/R
174	6/11/80	6: 0: 0	49000	107000	14900	510.	8000
175	6/11/80	7: 0: 0	N/R	N/R	N/R	N/R	N/R
176	6/11/80	8: 0: 0	50500	115000	15000	520.	8300
181	6/11/80	9: 0: 0	N/R	N/R	N/R	N/R	N/R
184	6/11/80	10: 0: 0	50500	116000	14400	490.	8250
185	6/11/80	11: 0: 0	N/R	N/R	N/R	N/R	N/R
186	6/11/80	12: 0: 0	53000	128000	14800	520.	8600
187	6/11/80	13: 0: 0	N/R	N/R	N/R	N/R	N/R
189	6/11/80	14: 0: 0	53000	120000	14700	520.	8700
193	6/11/80	15: 0: 0	N/R	N/R	N/R	N/R	N/R
195	6/11/80	16: 0: 0	51500	118000	14900	510.	9400
198	6/11/80	17: 0: 0	N/R	N/R	N/R	N/R	N/R
201	6/11/80	18: 0: 0	53500	114000	15400	470.	9500
202	6/11/80	19: 0: 0	N/R	N/R	N/R	N/R	N/R
203	6/11/80	20: 0: 0	52500	119000	15100	530.	9800
204	6/11/80	21: 0: 0	N/R	N/R	N/R	N/R	N/R
205	6/11/80	22: 0: 0	54500	122000	15500	550.	9700
206	6/11/80	23: 0: 0	N/R	N/R	N/R	N/R	N/R
207	6/11/80	24: 0: 0	54000	131000	15400	560.	9850
208	6/12/80	1: 0: 0	N/R	N/R	N/R	N/R	N/R
209	6/12/80	2: 0: 0	57000	142000	16100	590.	10300
210	6/12/80	3: 0: 0	N/R	N/R	N/R	N/R	N/R
211	6/12/80	4: 0: 0	56500	144000	16300	623.	10400
212	6/12/80	5: 0: 0	N/R	N/R	N/R	N/R	N/R

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	NA	CL	CA	ZN	K
213	6/12/80 5: 0: 0	56000	146000	16300	656.	10900
214	6/12/80 6: 0: 0	N/R	N/R	N/R	N/R	N/R
215	6/12/80 8: 0: 0	57000	143000	16300	600.	10500
216	6/12/80 9: 0: 0	N/R	N/R	N/R	N/R	N/R
217	6/12/80 7: 0: 0	56000	147000	16200	590.	10400
218	6/12/80 8: 0: 0	54000	149000	16200	590.	10400
222	6/12/80 10:30: 0	N/R	N/R	N/R	N/R	N/R
223	6/12/80 11: 0: 0	54500	147000	15600	580.	10400
225	6/12/80 12: 0: 0	53500	151000	15500	580.	10400
229	6/12/80 13: 0: 0	N/R	N/R	N/R	N/R	N/R
231	6/12/80 14: 0: 0	53000	150000	15700	580.	9500
233	6/12/80 15: 0: 0	N/R	N/R	N/R	N/R	N/R
237	6/12/80 16: 0: 0	53000	151000	15600	550.	10800
239	6/12/80 17: 0: 0	48500	140000	15800	580.	10400
240	6/12/80 18: 0: 0	53000	136000	15700	580.	10700
242	6/12/80 18: 0: 0	N/R	N/R	N/R	N/R	N/R
244	6/12/80 19: 0: 0	N/R	145000	15800	580.	10400
245	6/12/80 20: 0: 0	52500	142000	15800	560.	10300
246	6/12/80 21: 0: 0	N/R	N/R	N/R	N/R	N/R
247	6/12/80 22: 0: 0	51000	145000	16000	590.	10300
248	6/12/80 23: 0: 0	N/R	N/R	N/R	N/R	N/R
249	6/13/80 1: 0: 0	43000	125000	13800	508.	8950
250	6/13/80 2: 0: 0	43300	129000	13800	460.	N/R
251	6/13/80 3: 0: 0	43500	126000	14000	460.	9200
252	6/13/80 4: 0: 0	45000	128000	14100	648.	9000
253	6/13/80 5: 0: 0	N/R	N/R	N/R	N/R	N/R
254	6/13/80 6: 0: 0	44500	128000	13400	480.	9250
255	6/13/80 7: 0: 0	N/R	N/R	N/R	N/R	N/R
257	6/13/80 8: 0: 0	43000	122000	13700	510.	9200
260	6/13/80 9: 0: 0	44000	131000	18100	500.	9200
265	6/13/80 12: 0: 0	46000	139000	14700	540.	8770
267	6/13/80 15: 0: 0	N/R	N/R	N/R	N/R	N/R
271	6/13/80 18: 0: 0	55000	135000	14600	560.	9700
273	6/13/80 24: 0: 0	53500	130000	14900	530.	9150
274	6/14/80 3: 0: 0	N/R	N/R	N/R	N/R	N/R
275	6/14/80 6: 0: 0	53000	137000	14600	530.	9700
277	6/14/80 9: 0: 0	N/R	N/R	N/R	N/R	N/R
279	6/14/80 9: 0: 0	N/R	N/R	N/R	N/R	N/R
283	6/14/80 12: 0: 0	54000	137000	14700	540.	9950
287	6/14/80 15: 0: 0	53000	140000	N/R	N/R	N/R
290	6/14/80 9: 0: 0	53500	138000	14800	530.	10000
291	6/14/80 21: 0: 0	53300	87300	N/R	N/R	N/R
292	6/15/80 3: 0: 0	52500	64100	14500	570.	9950
293	6/15/80 60: 0: 0	53100	129000	N/R	N/R	N/R
297	6/15/80 9: 0: 0	52500	148000	14800	580.	10000
301	6/15/80 12: 0: 0	54800	160000	N/R	N/R	N/R
305	6/15/80 15: 0: 0	55500	149000	15900	510.	10300

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably. N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
309	6/15/80	18: 0: 0	56000	139000	15800	550.	10800
310	6/15/80	21: 0: 0	N/R	134000	N/R	N/R	N/R
311	6/15/80	24: 0: 0	55000	149000	16800	550.	9950
312	6/15/80	24: 0: 0	N/R	131000	N/R	N/R	N/R
313	6/16/80	3: 0: 0	50000	130000	16400	620.	10500
314	6/16/80	6: 0: 0	N/R	142000	N/R	N/R	N/R
318	6/16/80	9: 0: 0	52000	132000	16600	600.	10500
326	6/16/80	15: 0: 0	N/R	144000	N/R	N/R	N/R
330	6/16/80	18: 0: 0	53000	142000	17200	610.	10200
331	6/16/80	21: 0: 0	N/R	134000	N/R	N/R	N/R
332	6/16/80	24: 0: 0	54500	136000	17400	610.	9930
333	6/17/80	3: 0: 0	N/R	137000	N/R	N/R	N/R
334	6/17/80	6: 0: 0	53000	130000	16400	600.	9600
338	6/17/80	9: 0: 0	N/R	124000	N/R	N/R	N/R
339	6/17/80	9:15: 0	47500	138000	15200	550.	8660
340	6/17/80	9:30: 0	N/R	131000	N/R	N/R	N/R
341	6/17/80	9:45: 0	47000	127000	16700	531.	8540
344	6/17/80	10: 0: 0	N/R	115000	N/R	N/R	N/R
345	6/17/80	10:15: 0	44000	125000	18500	527.	8660
346	6/17/80	10:30: 0	N/R	125000	N/R	N/R	N/R
348	6/17/80	12: 0: 0	47000	116000	14900	520.	9950
352	6/17/80	15: 0: 0	N/R	127000	N/R	N/R	N/R
356	6/17/80	18: 0: 0	47000	124000	14900	550.	9250
357	6/17/80	21: 0: 0	N/R	122000	N/R	N/R	N/R
358	6/17/80	24: 0: 0	49500	132000	15600	590.	9650
359	6/18/80	3: 0: 0	N/R	121000	N/R	N/R	N/R
360	6/18/80	6: 0: 0	48500	130000	15500	550.	9750
363	6/18/80	9: 0: 0	N/R	140000	N/R	N/R	N/R
368	6/18/80	12: 0: 0	45000	128000	15300	590.	9350
372	6/18/80	14: 0: 0	N/R	111000	N/R	N/R	N/R
373	6/18/80	14: 0: 0	42500	127000	0.02	590.	9300
376	6/18/80	18:30: 0	N/R	130000	N/R	N/R	N/R
378	6/18/80	21: 0: 0	49000	129000	15800	570.	9750
379	6/18/80	0: 0: 0	N/R	111000	N/R	N/R	N/R
380	6/19/80	3: 0: 0	49000	131000	15200	560.	9250
381	6/19/80	3: 0: 0	N/R	134000	N/R	N/R	N/R
382	6/19/80	6: 0: 0	45000	134000	15800	570.	8500
383	6/19/80	6: 0: 0	N/R	134000	N/R	N/R	N/R
386	6/19/80	9: 0: 0	49000	138000	15700	570.	9500
391	6/19/80	12: 0: 0	N/R	127000	N/R	N/R	N/R
395	6/19/80	15: 0: 0	47000	130000	15600	570.	9600
398	6/19/80	18:30: 0	N/R	118000	N/R	N/R	N/R
400	6/19/80	21: 0: 0	45000	130000	16000	580.	9600
401	6/19/80	24: 0: 0	N/R	133000	N/R	N/R	N/R
402	6/19/80	24: 0: 0	49500	136000	16000	570.	9750
403	6/20/80	3: 0: 0	N/R	N/R	N/R	N/R	N/R
404	6/20/80	6: 0: 0	49000	133000	15700	507.	9250

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL	CA	ZN	K
408	6/20/80	9: 0: 0	48500	133000	15800	600.	9350
412	6/20/80	12: 0: 0	N/R	N/R	N/R	N/R	N/R
415	6/20/80	15: 0: 0	50000	130000	16100	560.	9400
419	6/20/80	18: 0: 0	53200	132000	N/R	N/R	N/R
420	6/20/80	21: 0: 0	50500	129000	16000	600.	N/R
421	6/21/80	3: 0: 0	53400	131000	N/R	N/R	N/R
423	6/21/80	6: 0: 0	50000	133000	15600	580.	9750
431	6/21/80	13: 0: 0	54500	141000	N/R	N/R	N/R
433	6/21/80	15: 0: 0	51500	138000	16400	550.	9950
451	6/21/80	17: 0: 0	N/R	137000	N/R	N/R	N/R
454	6/21/80	18: 0: 0	51000	129000	16100	560.	10000
455	6/22/80	3: 0: 0	N/R	N/R	N/R	N/R	N/R
456	6/22/80	6: 0: 0	51000	136000	15900	553.	8700
459	6/22/80	9: 0: 0	N/R	N/R	N/R	N/R	N/R
462	6/22/80	11: 0: 0	50500	138000	16400	554.	9700
467	6/22/80	14: 0: 0	50000	134000	15600	555.	9120
472	6/22/80	17: 0: 0	N/R	N/R	N/R	N/R	N/R
477	6/22/80	20: 0: 0	52500	137000	15700	590.	8600
480	6/22/80	23: 0: 0	N/R	N/R	N/R	N/R	N/R
481	6/23/80	2: 0: 0	N/R	N/R	N/R	N/R	N/R
482	6/23/80	5: 0: 0	52000	125000	19700	559.	8330
483	6/23/80	8: 0: 0	53000	129000	19700	553.	9400
489	6/23/80	11: 0: 0	51500	133000	19300	550.	N/R
490	6/23/80	11: 0: 0	44200	137000	19700	547.	9120
494	6/23/80	14: 0: 0	54500	128000	19800	561.	9310
499	6/23/80	17: 0: 0	53500	132000	19800	550.	N/R
504	6/23/80	23: 0: 0	52500	132000	19900	540.	8250
505	6/24/80	2: 0: 0	51500	137000	18800	520.	N/R
506	6/24/80	5: 0: 0	50000	133000	18900	510.	9000
510	6/24/80	11: 0: 0	52000	135000	19300	520.	N/R
515	6/24/80	15: 0: 0	51500	134000	19000	520.	9400
569	6/27/80	5: 0: 0	51000	N/A	22500	550.	N/R
582	6/27/80	20: 0: 0	46500	118000	17100	460.	9400
583	6/27/80	23: 0: 0	47000	128000	18000	480.	9500
584	6/28/80	1: 0: 0	N/R	N/R	N/R	N/R	N/R
587	6/28/80	8: 0: 0	49500	128000	18200	490.	9550
591	6/28/80	11: 0: 0	N/R	N/R	N/R	N/R	N/R
597	6/28/80	13: 0: 0	48000	125000	15000	550.	9400
601	6/29/80	14: 0: 0	N/R	N/R	N/R	N/R	N/R
606	6/29/80	20: 0: 0	48500	129000	15500	570.	9350
607	6/29/80	1: 0: 0	N/R	N/R	N/R	N/R	N/R
608	6/29/80	5: 0: 0	46500	122000	14700	530.	8550
609	6/29/80	8: 0: 0	N/R	N/R	N/R	N/R	N/R
610	6/29/80	11: 0: 0	47000	126000	15300	550.	9000
619	6/29/80	14: 0: 0	N/R	N/R	N/R	N/R	N/R
627	6/29/80	17: 0: 0	48000	127000	15100	540.	9500
628	6/29/80	20: 0: 0	N/R	N/R	N/R	N/R	N/R

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.
 N/A Not applicable. Sample was acidified.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	NA	CL	CA	ZN	K
629	6/29/80 23: 0: 0	49500	128000	14700	530.	9150
630	6/30/80 1: 0: 0	N/R	N/R	N/R	N/R	N/R
631	6/30/80 5: 0: 0	49500	128000	14700	550.	9050
635	6/30/80 8: 0: 0	N/R	N/R	N/R	N/R	N/R
643	6/30/80 10:30: 0	50000	133000	15600	550.	9400
650	6/30/80 13:30: 0	N/R	N/R	N/R	N/R	N/R
651	6/30/80 17:15: 0	49500	140000	15500	580.	9350
657	6/30/80 20: 0: 0	N/R	N/R	N/R	N/R	N/R
658	6/30/80 23: 0: 0	50000	141000	15800	570.	9350
659	7/ 1/80 5: 0: 0	N/R	N/R	N/R	N/R	N/R
660	7/ 1/80 8: 0: 0	49500	134000	15000	570.	8530
665	7/ 1/80 11: 0: 0	N/R	N/R	N/R	N/R	N/R
684	6/24/80 1: 0: 0	52000	146000	16000	590.	8670
685	6/24/80 5: 0: 0	N/R	N/R	N/R	N/R	N/R
686	6/24/80 18: 0: 0	53000	143000	0.02	580.	9080
689	6/24/80 5: 0: 0	N/R	N/R	N/R	N/R	N/R
692	6/25/80 8: 0: 0	53500	146000	15900	580.	9050
699	6/25/80 11: 0: 0	N/R	N/R	N/R	N/R	N/R
700	6/25/80 14: 0: 0	54000	146000	16000	580.	9020
706	6/25/80 17: 0: 0	N/R	N/R	N/R	N/R	N/R
707	6/25/80 20: 0: 0	51000	148000	16500	530.	9700
708	6/26/80 3: 0: 0	N/R	N/R	N/R	N/R	N/R
711	6/26/80 6: 0: 0	50000	146000	15500	550.	9500
712	6/26/80 8: 0: 0	N/R	N/R	N/R	N/R	N/R
717	6/26/80 12: 0: 0	50500	145000	15800	580.	9600
720	6/26/80 15: 0: 0	N/R	N/R	N/R	N/R	N/R
724	6/26/80 18: 0: 0	49500	144000	16000	300.	9650
728	6/26/80 21: 0: 0	N/R	N/R	N/R	600.	N/R
729	6/26/80 24: 0: 0	50000	141000	15600	570.	9400
731	6/27/80 1: 0: 0	N/R	N/R	N/R	N/R	N/R
732	6/27/80 3: 0: 0	50500	142000	17200	590.	9600
733	6/27/80 8: 0: 0	N/R	N/R	N/R	N/R	N/R
739	6/27/80 11: 0: 0	50500	148000	17400	590.	9400
740	6/27/80 14: 0: 0	N/R	N/R	N/R	N/R	N/R
745	6/28/80 1: 0: 0	49500	142000	15800	600.	8520
746	6/28/80 11: 0: 0	N/R	N/R	N/R	N/R	N/R
749	6/28/80 13: 0: 0	48000	140000	15000	500.	9250
751	6/28/80 20: 0: 0	N/R	N/R	N/R	N/R	N/R
752	0/62/88 1: 0: 0	47500	134000	14900	500.	8470
753	6/29/80 8: 0: 0	N/R	N/R	N/R	N/R	N/R
754	6/29/80 11: 0: 0	N/R	N/R	N/R	N/R	N/R
758	7/ 1/80 14: 0: 0	48500	133000	18200	510.	8500
761	7/ 1/80 17:45: 0	49500	127000	18400	510.	8540
764	7/ 2/80 5: 0: 0	N/R	126000	N/R	N/R	8510
771	7/ 2/80 10: 0: 0	N/R	N/R	N/R	N/R	N/R

Values expressed in milligrams per liter. Milligrams per liter
 and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

TABLE 2

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

BRINE ANALYSES/BRINE DOWNSTREAM OF REACTOR

(12 O'CLOCK POSITION-SAMPLE STATION 05-02)

ICP DATA

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE,1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	NA	K	LI	CA	HG	BA	SR
797	6/ 4/80 9:45: 0	59200	10100	250	25200	439.	2200	14
798	6/ 4/80 11: 0: 0	61100	9100	250	24300	440.	2150	13
799	6/ 4/80 12: 0: 0	59400	8800	250	24600	439.	2180	14
800	6/ 4/80 17: 0: 0	60000	9400	250	24800	440.	2140	14
801	6/ 4/80 18: 0: 0	58700	9500	250	24300	439.	2100	13
802	6/ 5/80 13: 0: 0	37800	5910	170	15200	360.	1180	84
803	6/ 5/80 14:30: 0	39400	5910	160	14900	353.	1170	85
804	6/ 5/80 15:30: 0	44000	6500	170	17700	391.	1400	10
805	6/ 5/80 16: 0: 0	43600	6500	180	17600	390.	1380	99
806	6/ 5/80 16:30: 0	40600	5400	170	15600	359.	1230	90
807	6/ 5/80 21: 0: 0	45300	6190	170	15800	364.	1240	89
808	6/ 5/80 21:30: 0	43200	5350	150	14400	335.	1090	76
809	6/ 5/80 22: 0: 0	43400	5980	160	14200	357.	1190	82
810	6/ 6/80 3: 0: 0	49600	5920	160	14600	343.	1150	82
811	6/ 6/80 6:30: 0	49100	7120	190	15400	381.	1420	10
812	6/ 6/80 7: 0: 0	49700	7120	200	17200	384.	1430	10
813	6/ 6/80 7:30: 0	48800	7150	190	17200	392.	1500	10
814	6/ 7/80 4: 0: 0	52000	7200	190	18400	388.	1430	10
815	6/ 7/80 9: 0: 0	47500	7320	200	16700	392.	1510	10
816	6/ 7/80 12: 0: 0	45000	7340	200	15600	404.	1460	10
817	6/ 7/80 12:30: 0	46500	7490	190	14200	393.	1480	10
818	6/ 8/80 11: 0: 0	42000	7960	190	14100	401.	1580	11
819	6/ 8/80 14: 0: 0	47500	7940	180	14300	399.	1560	11
820	6/ 9/80 1:60: 0	50100	<20	<1.	20200	404.	1630	11
821	6/ 9/80 15:35: 0	43500	7710	190	13400	385.	1450	10
822	6/ 9/80 20: 0: 0	46000	<20	<1.	17900	384.	1460	99
823	6/10/80 6:30: 0	52000	8730	190	15000	413.	1780	12
824	6/10/80 8: 0: 0	53500	8450	170	14700	404.	1680	11
825	6/10/80 10: 0: 0	51500	9550	190	14600	410.	1730	11
826	6/10/80 24: 0: 0	51000	8840	180	15400	412.	1720	11
827	6/11/80 1: 0: 0	52500	9560	200	15700	406.	1700	11
828	6/12/80 2: 0: 0	57000	10300	190	16100	424.	1850	12
829	6/12/80 4: 0: 0	56500	10400	190	16300	426.	1900	12
830	6/12/80 5: 0: 0	56000	10900	200	16300	426.	1900	12
831	6/12/80 22: 0: 0	51000	10300	200	16000	418.	1830	12
832	6/13/80 1: 0: 0	43000	8950	210	13800	397.	1520	10
833	6/13/80 12: 0: 0	46000	8770	220	14700	400.	1590	11
834	6/16/80 24: 0: 0	54500	9930	250	17400	415.	1770	11
835	6/17/80 6: 0: 0	53000	9600	230	16400	411.	1770	12
836	6/17/80 9:15: 0	47500	8660	200	15200	394.	1530	10
837	6/17/80 9:45: 0	47000	8540	190	16700	391.	1500	10
838	6/17/80 10:15: 0	44000	8660	190	18500	403.	1540	11
839	6/22/80 6: 0: 0	51000	8700	180	15900	397.	1620	11
840	6/22/80 14: 0: 0	50000	9120	160	15600	397.	1610	11
841	6/23/80 5: 0: 0	52000	8330	170	19700	398.	1640	11
842	6/23/80 8: 0: 0	53000	9400	170	19700	395.	1620	11
843	6/23/80 11: 0: 0	54000	9120	170	19700	393.	1590	11

Values expressed in milligrams per liter. Milligrams per liter
 and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

AL <3.; AG <0.3; AS <10; AU <0.9; BE <0.1; CD <0.7; CE <10 ;CD <0.9
 CR <1.; CU <0.2; GA <7.; GE <8.; HG <3.; LA <0.3; MO <8.; NI <4.; SB <40
 SE <10; SN <10; TI <0.2; V <0.3; ZR <0.5; PO4 <10

(SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	B	FE	MN	PB	ZN	SI02
797	6/ 4/80 9:45: 0	249.	2200	789.	94.1	635.	120
798	6/ 4/80 11: 0: 0	221.	2240	791.	98.0	640.	110
799	6/ 4/80 12: 0: 0	248.	2230	795.	92.1	644.	120
800	6/ 4/80 17: 0: 0	254.	1930	788.	91.1	634.	89.
801	6/ 4/80 18: 0: 0	234.	1780	790.	81.0	635.	78.
802	6/ 5/80 13: 0: 0	156.	979.	508.	46.	440.	70.
803	6/ 5/80 14:30: 0	175.	1170	499.	24.	404.	180
804	6/ 5/80 15:30: 0	180.	931.	542.	30.	395.	65.
805	6/ 5/80 16: 0: 0	165.	952.	523.	35.	357.	30
806	6/ 5/80 16:30: 0	176.	1220	521.	26.	422.	170
807	6/ 5/80 21: 0: 0	177.	922.	520.	22.	417.	59.
808	6/ 5/80 21:30: 0	165.	849.	462.	18.	369.	50.
809	6/ 5/80 22: 0: 0	166.	1040	511.	43.	404.	73.
810	6/ 6/80 3: 0: 0	152.	1120	493.	20.	390.	160
811	6/ 6/80 6:30: 0	201.	1380	606.	51.	466.	86.
812	6/ 6/80 7: 0: 0	186.	1550	612.	53.	469.	120
813	6/ 6/80 7:30: 0	193.	1610	636.	61.	485.	130
814	6/ 7/80 4: 0: 0	193.	1280	612.	27.	474.	89.
815	6/ 7/80 9: 0: 0	220.	1400	649.	38.	494.	66.
816	6/ 7/80 12: 0: 0	201.	1600	651.	56.	487.	89.
817	6/ 7/80 12:30: 0	208.	1430	651.	44.	502.	75.
818	6/ 8/80 11: 0: 0	239.	1820	703.	72.0	522.	130
819	6/ 8/80 14: 0: 0	222.	1730	699.	51.	514.	110
820	6/ 9/80 1:60: 0	235.	2020	728.	76.7	535.	126.
821	6/ 9/80 15:35: 0	226.	1690	656.	29.	485.	69.
822	6/ 9/80 20: 0: 0	197.	1780	663.	38.	517.	150
823	6/10/80 6:30: 0	254.	2290	793.	112.	580.	120
824	6/10/80 8: 0: 0	248.	2200	761.	92.3	550.	120
825	6/10/80 10: 0: 0	231.	2270	781.	89.7	567.	120
826	6/10/80 24: 0: 0	267.	2220	781.	77.9	568.	170
827	6/11/80 1: 0: 0	246.	2210	767.	71.9	566.	140
828	6/12/80 2: 0: 0	289.	2440	844.	65.	607.	140
829	6/12/80 4: 0: 0	284.	2560	864.	67.5	624.	140
830	6/12/80 5: 0: 0	285.	2540	864.	66.2	656.	130
831	6/12/80 22: 0: 0	312.	2570	831.	62.	596.	210
832	6/13/80 1: 0: 0	243.	1480	710.	34.	508.	59.
833	6/13/80 12: 0: 0	267.	2150	756.	86.4	541.	150
834	6/16/80 24: 0: 0	288.	2430	837.	61.	593.	190
835	6/17/80 6: 0: 0	219.	2440	842.	65.9	599.	180
836	6/17/80 9:15: 0	222.	1810	762.	84.4	543.	100
837	6/17/80 9:45: 0	196.	1950	761.	123.	527.	150
838	6/17/80 10:15: 0	198.	1510	777.	118.	527.	51.
839	6/22/80 6: 0: 0	227.	2560	796.	68.3	553.	220
840	6/22/80 14: 0: 0	199.	2480	803.	73.2	555.	250
841	6/23/80 5: 0: 0	198.	2500	805.	71.0	559.	270
842	6/23/80 8: 0: 0	198.	2490	799.	71.4	554.	220
843	6/23/80 11: 0: 0	194.	2290	789.	70.5	547.	130

Values expressed in milligrams per liter. Milligrams per liter
and parts per million used interchangeably.
N/R indicates not requested to be analyzed.

AL <3.; AG <0.3; AS <10; AU <0.9; BE <0.1; CD <0.7; CE <10; CO <0.9
CR <1.; CU <0.2; GA <7.; GE <8.; HG <3.; LA <0.3; MD <8.; NI <4.; SB <40
SE <10; SN <10; TI <0.2; V <0.3; ZR <0.5; P04 <10

MAPCO'S CURRIER 2; 30DAY WELL TEST (JUNE,1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	NA	K	LI	CA	HG	BA	SR
844	6/23/80 14: 0: 0	54500	9130	170	19800	399.	1640	11
845	7/ 1/80 8: 0: 0	49500	8530	160	15000	384.	1460	10
846	6/24/80 1: 0: 0	52000	8670	170	16000	388.	1540	10
847	6/24/80 18: 0: 0	53000	9080	170	16000	392.	1620	11
848	6/25/80 8: 0: 0	53500	9050	170	15900	391.	1620	10
849	6/25/80 14: 0: 0	54000	9020	170	16000	397.	1620	11
850	6/28/80 1: 0: 0	49500	8520	170	15800	385.	1550	10
851	6/28/80 1: 0: 0	47500	8470	160	14900	374.	1460	10
852	7/ 1/80 17:45: 0	49500	8540	170	18400	383.	1510	10

Values expressed in milligrams per liter. Milligrams per liter
 and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

AL <3.; AG <0.3; AS <10; AU <0.9; BE <0.1; CD <0.7; CE <10 ;CO <0.9
 CR <1.; CU <0.2; GA <7.; GE <8.; HG <3.; LA <0.3; MO <8.; NI <4.; SB <40
 SE <10; SN <10; TI <0.2; V <0.3; ZR <0.5; PO4 <10

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. OF REACTOR (12 O'CLOCK POSITION)
 (SAMPLE STATION 05-02)

VR CODE	SAMPLE IDENTIFICATION	B	FE	MN	PB	ZN	SI02
844	6/23/80 14: 0: 0	190.	2500	808.	71.3	561.	270
845	7/ 1/80 8: 0: 0	185.	2080	756.	70.1	515.	110
846	6/24/80 1: 0: 0	205.	2230	773.	66.7	536.	130
847	6/24/80 18: 0: 0	193.	2250	792.	63.	545.	76.
848	6/25/80 8: 0: 0	186.	2230	800.	71.4	556.	110
849	6/25/80 14: 0: 0	194.	2280	814.	68.5	559.	160
850	6/28/80 1: 0: 0	203.	2440	791.	68.9	540.	240
851	6/28/80 1: 0: 0	182.	2110	744.	59.	516.	150
852	7/ 1/80 17:45: 0	190.	2270	780.	62.	538.	150

Values expressed in milligrams per liter. Milligrams per liter
 and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

AL <3.; AG <0.3; AS <10; AU <0.9; BE <0.1; CD <0.7; CE <10 ;CO <0.9
 CR <1.; CU <0.2; GA <7.; GE <8.; HG <3.; LA <0.3; MO <8.; NI <4.; SB <40

TABLE 3

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

SI02 CONCENTRATION IN BRINE

TREATMENT FACILITY

MAPCO'S CURRIER 2: 3ODAY WELL TEST (JUNE, 1980)
 SIO2 CONCENTRATION IN BRINE TREATMENT FACILITY

VR CODE	SAMPLE POINT	SAMPLE IDENTIFICATION		SIO2 *	SIO2 **
435	Before fluidized	6/19/80	8:30: 0	268.	256.
436	Btwn fluidized	6/19/80	8:30: 0	260.	241.
437	Chamber1 Top	6/19/80	8:30: 0	264.	258.
438	Chamber2 Top	6/19/80	8:30: 0	262.	243.
439	Chamber3 Top	6/19/80	8:30: 0	266.	253.
440	Chamber4 top	6/19/80	8:30: 0	248.	241.
441	Eff. tank 1	6/19/80	8:30: 0	248.	244.
442	Port2 tank 1	6/19/80	8:30: 0	262.	257.
443	Port3 tank 1	6/19/80	8:30: 0	248.	250.
444	Port4 tank 1	6/19/80	8:30: 0	250.	255.
445	Port5 tank1	6/19/80	8:30: 0	256.	250.
446	Inj. w-head	6/19/80	8:30: 0	236.	226.
447	Before Baker tanks	6/19/80	8:30: 0	254.	237.
448	Baker tank 1	6/19/80	8:30: 0	250.	238.
449	Baker tank 1	6/19/80	8:30: 0	250.	244.
450	Before filt.	6/19/80	8:30: 0	250.	258.
520	Before fluidized	6/22/80	18: 0: 0	312.	292.
521	Btwn fluidized	6/22/80	18: 0: 0	296.	306.
522	Chamber1 Top	6/22/80	18: 0: 0	290.	270.
523	Chamber2 Top	6/22/80	18: 0: 0	272.	224.
524	Chamber3 Top	6/22/80	18: 0: 0	258.	246.
525	Chamber4 top	6/22/80	18: 0: 0	288.	274.
526	Port2 tank 1	6/22/80	18: 0: 0	270.	300.
527	Port3 tank 1	6/22/80	18: 0: 0	272.	300.
528	Port4 tank 1	6/22/80	18: 0: 0	278.	310.
529	Port5 tank1	6/22/80	18: 0: 0	240.	278.
530	Eff. tank 1	6/22/80	18: 0: 0	274.	316.
531	Eff. all settling tanks	6/22/80	18: 0: 0	260.	298.
532	Line into Baker tanks	6/22/80	18: 0: 0	250.	250.
533	Baker tank 1	6/22/80	18: 0: 0	264.	280.
534	Baker tanks line to filte	6/22/80	18: 0: 0	268.	288.
535	Inj. w-head	6/22/80	18: 0: 0	268.	282.
536	Upstream FB1	6/26/80	19: 0: 0	296.	286.
537	Btwn FB & ST	6/26/80	19: 0: 0	218.	224.
538	ST1, CH1	6/26/80	19: 0: 0	310.	330.
539	ST1, CH2	6/26/80	19: 0: 0	298.	310.
540	ST1, CH3	6/26/80	19: 0: 0	298.	298.
541	ST1, CH4	6/26/80	19: 0: 0	290.	308.
542	ST1, P3	6/26/80	19: 0: 0	296.	312.
543	ST1, P4	6/26/80	19: 0: 0	296.	318.
544	ST1, P5	6/26/80	19: 0: 0	294.	308.
545	Downstr. ST1	6/26/80	19: 0: 0	248.	260.
546	Downstr. ST	6/26/80	19: 0: 0	288.	310.
547	Line into Baker tanks	6/26/80	19: 0: 0	290.	310.
548	BT2	6/26/80	19: 0: 0	232.	254.
549	Inj. w-head	6/26/80	19: 0: 0	286.	284.

* Analyzed by ICP.

** Analyzed by wet chemical method.

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 SIO2 CONCENTRATION IN BRINE TREATMENT FACILITY

VR CODE	SAMPLE POINT	SAMPLE IDENTIFICATION		SIO2 *	SIO2 **
550	Diluted filtrate	6/28/80	8:20: 0	282.	288.
551	Btwn.fluid.bed & settler	6/28/80	8:30: 0	286.	310.
552	Settling #1 Cell #1, Top	6/28/80	8:36: 0	256.	290.
553	Settling #1 Cell #3, Top	6/28/80	8:53: 0	258.	290.
554	Settling #1 Cell #4, Top	6/28/80	9: 0: 0	266.	290.
555	Settling #1 Port #4	6/28/80	9:12: 0	268.	294.
556	Settling #1 Port #5	6/28/80	9:20: 0	262.	292.
557	Settling #1 Cell #2	6/28/80	8:45: 0	266.	270.
558	Downstr. ST1	6/28/80	9:40: 0	270.	260.
559	Line into Baker tanks	6/28/80	10:45: 0	280.	266.
560	Baker tank 1	6/28/80	11: 0: 0	272.	292.
561	Baker tank 2	6/28/80	11: 5: 0	256.	258.
562	Inj. w-head	6/28/80	11:14: 0	238.	240.
563	Settling #1 Cell #4, Top	6/28/80	15:30: 0	264.	250.
564	Settling #4 Cell #4, Top	6/28/80	15:45: 0	260.	248.
778	Upstream FB2	7/ 1/80	9: 0: 0	290.	285.
779	Btwn FB & ST	7/ 1/80	9: 0: 0	280.	277.
780	Downstr. ST	7/ 1/80	9: 0: 0	266.	283.
781	Inj. w-head	7/ 1/80	9: 0: 0	256.	256.

* Analyzed by ICP.

** Analyzed by wet chemical method.

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.

TABLE 4

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

STEAM CONDENSATE ANALYSES/STEAM DOWNSTREAM

LOW PRESSURE SEPARATOR-C02

(SAMPLE STATION 03-02)

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 (STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRESS. SEP.)
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		CO2
138	6/ 9/80	13:35: 0	111000
146	6/ 9/80	17:30: 0	107000
177	6/11/80	9: 0: 0	146000
182	6/11/80	9: 0: 0	149000
191	6/11/80	15: 0: 0	130000
199	6/11/80	17: 0: 0	101000
221	6/12/80	9: 0: 0	105000
227	6/12/80	13: 0: 0	123000
234	6/12/80	16: 0: 0	132000
243	6/12/80	18: 0: 0	130000
261	6/13/80	9: 0: 0	99000
262	6/13/80	11: 0: 0	146000
268	6/13/80	16: 0: 0	150000
281	6/14/80	10: 0: 0	145000
285	6/14/80	13: 0: 0	129000
288	6/14/80	16: 0: 0	108000
294	6/15/80	7: 0: 0	97600
298	6/15/80	10: 0: 0	99400
302	6/15/80	13: 0: 0	85400
307	6/15/80	16: 0: 0	88600
315	6/16/80	7: 0: 0	94500
320	6/16/80	10: 0: 0	81500
324	6/16/80	13: 0: 0	81400
327	6/16/80	16: 0: 0	82200
336	6/17/80	7: 0: 0	90600
343	6/17/80	10: 0: 0	77300
349	6/17/80	13: 0: 0	121000
353	6/17/80	16: 0: 0	91800
361	6/18/80	7: 0: 0	89700
365	6/18/80	10: 0: 0	99500
371	6/18/80	13: 0: 0	125000
375	6/18/80	16: 0: 0	101000
385	6/19/80	8: 0: 0	135000
389	6/19/80	1: 0: 0	135000
397	6/19/80	16: 0: 0	106000
405	6/20/80	7: 0: 0	124000
409	6/20/80	11: 0: 0	118000
417	6/20/80	16: 0: 0	106000
426	6/21/80	7: 0: 0	933000
429	6/21/80	13: 0: 0	113000
452	6/21/80	17: 0: 0	109000
458	6/22/80	7:30: 0	113000
464	6/22/80	11: 0: 0	110000
471	6/22/80	14: 0: 0	90500
474	6/22/80	17: 0: 0	126000

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably. N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 (STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRESS. SEP.)
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		CO2
493	6/23/80	11: 0: 0	111000
498	6/23/80	14: 0: 0	102000
503	6/23/80	17: 0: 0	114000
508	6/24/80	8: 0: 0	106000
512	6/24/80	11: 0: 0	125000
518	6/24/80	15: 0: 0	117000
585	6/28/80	8: 0: 0	96700
594	6/28/80	12: 0: 0	91600
596	6/28/80	13: 0: 0	116000
603	6/29/80	20: 0: 0	104000
611	6/29/80	11: 0: 0	95800
618	6/29/80	14: 0: 0	154000
625	6/29/80	17: 0: 0	119000
637	6/30/80	8: 0: 0	105000
640	6/30/80	10: 0: 0	114000
649	6/30/80	13:30: 0	98000
656	6/30/80	17:30: 0	110000
661	7/ 1/80	8: 0: 0	112000
670	7/ 1/80	11:15: 0	114000
673	6/24/80	18: 0: 0	119000
674	6/25/80	15:30: 0	104000
676	6/26/80	8: 0: 0	90200
677	6/26/80	11:30: 0	96700
678	6/26/80	15: 0: 0	115000
679	6/26/80	16: 0: 0	114000
680	7/ 1/80	14: 0: 0	117000
681	7/ 1/80	17:30: 0	103000
682	7/ 2/80	5: 0: 0	105000
683	7/ 2/80	10: 0: 0	109000
694	6/25/80	11: 0: 0	87100

$$n = 74$$

$$\Sigma = 81631$$

$$\bar{X} = 110.327$$

$$S_x = 17.622$$

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

TABLE 5

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

STEAM CONDENSATE ANALYSES/STEAM DOWNSTREAM

LOW PRESSURE SEPARATOR-N2 AND C1

(SAMPLE STATION 03-02)

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 (STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRESS. SEP.)
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		NA	CL
137	6/ 9/80	13:20: 0	9.0	22.0
144	6/ 9/80	17: 0: 0	900.	2130
179	6/11/80	9: 0: 0	7.0	17.
190	6/11/80	15: 0: 0	57.0	340.
196	6/11/80	17: 0: 0	15.	36.0
219	6/12/80	9: 0: 0	19.0	44.6
226	6/12/80	13: 0: 0	3.8	9.1
235	6/12/80	16: 0: 0	4.0	9.3
258	6/13/80	9: 0: 0	3.0	7.4
263	6/13/80	11: 0: 0	2.0	3.8
269	6/13/80	16: 0: 0	3.0	6.9
276	6/14/80	7: 0: 0	4.0	8.4
280	6/14/80	1: 0: 0	5.0	9.2
284	6/14/80	13: 0: 0	5.0	11.
289	6/14/80	16: 0: 0	3.0	4.9
295	6/15/80	7: 0: 0	8.0	18.3
299	6/15/80	10: 0: 0	5.0	11.
303	6/15/80	13: 0: 0	6.0	11.
306	6/15/80	16: 0: 0	4.0	6.5
316	6/16/80	7: 0: 0	7.0	16.
319	6/16/80	10: 0: 0	5.0	10.
322	6/16/80	13: 0: 0	N/R	N/R
323	6/16/80	13: 0: 0	10.	6.7
328	6/16/80	16: 0: 0	3.0	5.1
335	6/17/80	7: 0: 0	7.0	26.4
342	6/17/80	10: 0: 0	260.	897.
350	6/17/80	13: 0: 0	55.0	137.
354	6/17/80	16: 0: 0	8.0	25.6
362	6/18/80	7: 0: 0	10.	32.1
366	6/18/80	10: 0: 0	4.0	18.5
370	6/18/80	13: 0: 0	13.	38.4
374	6/18/80	16: 0: 0	6.0	22.6
388	6/19/80	10: 0: 0	7.0	20.7
392	6/19/80	13: 0: 0	7.0	15.
393	6/19/80	13: 0: 0	8.0	15.
396	6/19/80	16: 0: 0	8.0	32.1
406	6/20/80	7: 0: 0	9.0	17.7
410	6/20/80	11: 0: 0	7.0	24.4
413	6/20/80	13: 0: 0	12.	24.8
416	6/20/80	16: 0: 0	6.0	13.
432	6/21/80	13: 0: 0	10.	20.4
457	6/22/80	7: 0: 0	4.0	12.
463	6/22/80	11: 0: 0	6.0	16.
470	6/22/80	14: 0: 0	7.0	19.0
473	6/22/80	17: 0: 0	5.0	15.

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably. N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 (STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRESS. SEP.)
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION	NA	CL
486	6/23/80 8: 0: 0	3.0	6.5
492	6/23/80 11: 0: 0	7.0	17.
497	6/23/80 14: 0: 0	6.0	17.
501	6/23/80 17: 0: 0	3000	7770
507	6/24/80 8: 0: 0	1080	3050
511	6/24/80 11: 0: 0	74.0	307.
516	6/24/80 15: 0: 0	97.0	337.
567	6/26/80 18: 0: 0	70.0	218.
586	6/28/80 8: 0: 0	15.	39.1
595	6/28/80 13: 0: 0	3.0	8.3
602	6/29/80 20: 0: 0	8.0	17.5
612	6/29/80 11: 0: 0	6800	N/R
617	6/29/80 14: 0: 0	78.0	310.
626	6/29/80 17: 0: 0	48.0	220.
636	6/30/80 8: 0: 0	12.	2640
638	6/30/80 8: 0: 0	22.0	140.
639	6/30/80 10: 0: 0	18.0	80.0
648	6/30/80 13:30: 0	1800	1800
654	6/30/80 17:30: 0	151.	470.
662	7/ 1/80 8: 0: 0	6100	16700
671	7/ 1/80 11:15: 0	7400	18500
675	6/25/80 17: 0: 0	N/R	N/R
687	6/24/80 18: 0: 0	130.	480.
693	6/25/80 8:30: 0	8900	24600
695	6/25/80 8:30: 0	6600	17000
696	6/25/80 11: 0: 0	3300	8170
703	6/25/80 15:30: 0	8500	20600
705	6/25/80 17: 0: 0	7000	21400
715	6/26/80 8: 0: 0	14.	40.0
716	6/26/80 11:30: 0	52.0	119.
722	6/26/80 15: 0: 0	25.0	179.
725	6/26/80 18: 0: 0	33.0	3520
734	6/27/80 8: 0: 0	1200	2870
736	6/27/80 11: 0: 0	5500	16400
741	6/27/80 14: 0: 0	5700	14600
755	6/29/80 11: 0: 0	6700	17000
759	7/ 1/80 14: 0: 0	6700	18000
760	7/ 1/80 17:30: 0	6600	16100
765	7/ 2/80 5: 0: 0	2800	8540
768	7/ 2/80 8: 0: 0	390.	1220
772	7/ 2/80 10: 0: 0	106.	3110

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

TABLE 6

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

BRINE ANALYSES (BRINE DOWNSTREAM
LOW PRESSURE SEPARATOR (3 O'CLOCK POSITION))

(SAMPLE STATION 04-01)

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE,1980)
 BRINE ANALYSES/BRINE, DOWNST. LOW PR. SEP. (3 O'CLOCK POSITION)
 (SAMPLE STATION 04-01)

VR CODE	SAMPLE IDENTIFICATION	NA	CL
136	6/ 9/80 13: 7: 0	69200	141000
140	6/ 9/80 14:45: 0	53800	135000
143	6/ 9/80 17: 0: 0	52700	124000
178	6/11/80 8: 0: 0	53600	132000
180	6/11/80 9: 0: 0	52100	131000
183	6/11/80 10: 0: 0	53600	131000
188	6/11/80 14: 0: 0	53000	132000
192	6/11/80 15: 0: 0	53100	132000
194	6/11/80 16: 0: 0	54300	112000
197	6/11/80 17: 0: 0	56100	137000
200	6/11/80 18: 0: 0	55400	132000
220	6/12/80 9: 0: 0	60200	145000
224	6/12/80 12: 0: 0	52300	130000
228	6/12/80 13: 0: 0	57500	144000
230	6/12/80 14: 0: 0	57500	144000
232	6/12/80 15: 0: 0	56200	140000
236	6/12/80 16: 0: 0	65900	141000
238	6/12/80 17: 0: 0	58600	145000
241	6/12/80 18: 0: 0	59400	136000
256	6/13/80 8: 0: 0	58600	118000
259	6/13/80 9: 0: 0	60200	126000
264	6/13/80 12: 0: 0	55800	119000
266	6/13/80 15: 0: 0	54600	133000
270	6/13/80 18: 0: 0	61400	131000
272	6/13/80 21: 0: 0	53000	133000
278	6/14/80 9: 0: 0	51700	141000
282	6/14/80 12: 0: 0	54500	133000
286	6/14/80 15: 0: 0	62100	134000
296	6/15/80 9: 0: 0	60100	147000
300	6/15/80 12: 0: 0	62100	181000
304	6/15/80 15: 0: 0	55600	149000
308	6/15/80 18: 0: 0	55000	144000
317	6/16/80 9: 0: 0	58200	143000
321	6/16/80 12: 0: 0	58200	143000
325	6/16/80 15: 0: 0	58200	142000
329	6/16/80 18: 0: 0	61200	140000
337	6/17/80 9: 0: 0	33600	122000
347	6/17/80 12: 0: 0	55700	117000
351	6/17/80 15: 0: 0	53000	109000
355	6/17/80 18: 0: 0	55200	125000
364	6/18/80 9: 0: 0	55700	117000
377	6/18/80 18:30: 0	58900	123000
387	6/19/80 9: 0: 0	59800	128000
390	6/19/80 12: 0: 0	59700	128000
394	6/19/80 15: 0: 0	61000	130000

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably. N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 BRINE ANALYSES/BRINE, DOWNST. LOW PR. SEP. (3 O'CLOCK POSITION)
 (SAMPLE STATION 04-01)

VR CODE	SAMPLE IDENTIFICATION	NA	CL
399	6/19/80 18:30: 0	59100	131000
407	6/20/80 9: 0: 0	60200	132000
411	6/20/80 12: 0: 0	59100	130000
414	6/20/80 15: 0: 0	59700	130000
418	6/20/80 18: 0: 0	59400	131000
422	6/21/80 3: 0: 0	59500	123000
424	6/21/80 6: 0: 0	54000	131000
430	6/21/80 13: 0: 0	59700	132000
434	6/21/80 15: 0: 0	54900	131000
453	6/21/80 18: 0: 0	53900	131000
461	6/22/80 9: 0: 0	61500	133000
466	6/22/80 11: 0: 0	61500	134000
469	6/22/80 14: 0: 0	63200	144000
476	6/22/80 17: 0: 0	61200	140000
479	6/22/80 20: 0: 0	53700	141000
484	6/23/80 8: 0: 0	53600	134000
491	6/23/80 11: 0: 0	61400	133000
496	6/23/80 14: 0: 0	62100	133000
500	6/23/80 17: 0: 0	62100	153000
509	6/24/80 8: 0: 0	60400	132000
513	6/24/80 11: 0: 0	60400	146000
517	6/24/80 15: 0: 0	60300	124000
568	6/26/80 18: 0: 0	60300	146000
588	6/28/80 8: 0: 0	59600	125000
592	6/28/80 11: 0: 0	54600	N/R
599	6/28/80 13: 0: 0	55900	137000
614	6/29/80 11: 0: 0	55600	118000
616	6/29/80 13: 0: 0	65100	N/R
620	6/29/80 14: 0: 0	58600	107000
623	6/29/80 17: 0: 0	49500	115000
633	6/30/80 8: 0: 0	56400	116000
641	6/30/80 10:30: 0	57900	123000
647	6/30/80 13:30: 0	51500	117000
652	6/30/80 17:30: 0	57700	123000
664	7/ 1/80 8: 0: 0	50400	123000
668	7/ 1/80 11:15: 0	58700	119000
688	6/24/80 19: 0: 0	60500	133000
690	6/25/80 8: 0: 0	65500	140000
697	6/25/80 11: 0: 0	63100	133000
702	6/25/80 14: 0: 0	61700	124000
704	6/25/80 17: 0: 0	60900	135000
709	6/26/80 3: 0: 0	58900	126000
710	6/26/80 6: 0: 0	59400	125000
714	6/26/80 8: 0: 0	53900	125000
718	6/26/80 12: 0: 0	53900	127000
721	6/26/80 15: 0: 0	59400	127000
723	6/26/80 16: 0: 0	61600	129000

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE,1980)
 BRINE ANALYSES/BRINE, DOWNST. LOW PR. SEP. (3 O'CLOCK POSITION)
 (SAMPLE STATION 04-01)

VR CODE	SAMPLE IDENTIFICATION	NA	CL
726	6/26/80 18: 0: 0	61400	N/R
727	6/26/80 20: 0: 0	43100	109000
730	6/26/80 24: 0: 0	59300	125000
735	6/27/80 8: 0: 0	68000	143000
738	6/27/80 11: 0: 0	57200	122000
742	6/27/80 14: 0: 0	55400	120000
744	6/27/80 17: 0: 0	54000	111000
747	6/28/80 11: 0: 0	57100	117000
750	6/28/80 20: 0: 0	48800	104000
756	7/ 1/80 14: 0: 0	59000	128000
763	7/ 1/80 17:45: 0	58200	121000
767	7/ 2/80 5: 0: 0	59100	131000
769	7/ 2/80 8: 0: 0	63100	141000
775	7/ 2/80 10: 0: 0	62400	135000

Values expressed in milligrams per liter. Milligrams per liter
 and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

TABLE 7

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

STEAM CONDENSATE ANALYSES/STEAM

DOWNSTREAM LOW PRESSURE SEPARATOR

(SAMPLESTATION 03-02)

ICP DATA

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		NA	K	LI	CA	MG	BA
853	6/ 9/80	13:20: 0	3.0	<0.2	0.04	6.05	<0.04	0.13
854	6/ 9/80	17: 0: 0	900.	183.	2.8	293.	4.80	23.9
855	6/11/80	9: 0: 0	7.0	<0.2	0.03	3.18	<0.04	0.12
856	6/16/80	16: 0: 0	3.0	<0.2	<0.01	1.69	<0.04	<0.03
857	6/17/80	10: 0: 0	260.	68.0	1.2	45.5	3.49	8.04
858	6/19/80	13: 0: 0	7.0	<0.2	0.03	2.11	<0.04	0.080
859	6/22/80	14: 0: 0	7.0	<0.2	0.03	2.66	<0.04	0.094
860	6/22/80	17: 0: 0	5.0	<0.2	0.02	1.81	<0.04	0.081
861	6/23/80	8: 0: 0	3.0	15.0	<0.01	0.945	<0.04	0.03
862	6/24/80	11: 0: 0	74.0	<0.2	0.34	26.1	0.074	1.76
863	6/25/80	8:30: 0	8900	1590	13.	3390	58.3	271.
864	6/29/80	11: 0: 0	6700	1240	11.	2620	44.6	194.
865	7/ 1/80	14: 0: 0	6700	1310	12.	2660	45.5	202.
866	7/ 2/80	10: 0: 0	106.	20.2	0.50	44.9	0.859	2.92

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		SR	B	AL	AG	AS	AU
853	6/ 9/80	13:20: 0	0.08	1.47	<0.03	<0.003	<0.1	<0.009
854	6/ 9/80	17: 0: 0	15.8	4.75	<0.03	<0.003	<0.1	<0.009
855	6/11/80	9: 0: 0	<0.07	0.545	<0.03	<0.003	<0.1	<0.009
856	6/16/80	16: 0: 0	<0.07	1.49	<0.03	<0.003	<0.1	<0.009
857	6/17/80	10: 0: 0	4.45	3.08	<0.03	<0.003	<0.1	<0.009
858	6/19/80	13: 0: 0	<0.07	1.38	<0.03	<0.003	<0.1	<0.009
859	6/22/80	14: 0: 0	<0.07	1.58	<0.03	<0.003	<0.1	<0.009
860	6/22/80	17: 0: 0	<0.07	1.74	<0.03	<0.003	<0.1	<0.009
861	6/23/80	8: 0: 0	<0.07	1.43	<0.03	<0.003	<0.1	<0.009
862	6/24/80	11: 0: 0	1.0	2.47	<0.03	<0.003	<0.1	<0.009
863	6/25/80	8:30: 0	186.	56.2	<0.3	<0.03	<1.	<0.09
864	6/29/80	11: 0: 0	136.	39.7	<0.3	<0.03	<1.	<0.09
865	7/ 1/80	14: 0: 0	138.	42.6	<0.3	<0.03	<1.	<0.09
866	7/ 2/80	10: 0: 0	1.9	3.29	<0.03	<0.003	<0.1	<0.009

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		BE	CD	CE	CO	CR	CU
853	6/ 9/80	13:20: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
854	6/ 9/80	17: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
855	6/11/80	9: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
856	6/16/80	16: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
857	6/17/80	10: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
858	6/19/80	13: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
859	6/22/80	14: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
860	6/22/80	17: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
861	6/23/80	8: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
862	6/24/80	11: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002
863	6/25/80	8:30: 0	<0.01	<0.07	<1.	<0.09	<0.1	<0.02
864	6/29/80	11: 0: 0	<0.01	<0.07	<1.	<0.09	<0.1	<0.02
865	7/ 1/80	14: 0: 0	<0.01	<0.07	<1.	<0.09	<0.1	<0.02
866	7/ 2/80	10: 0: 0	<0.001	<0.007	<0.1	<0.009	<0.01	<0.002

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		FE	GA	GE	HG	LA	MN
853	6/ 9/80	13:20: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.366
854	6/ 9/80	17: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	10.3
855	6/11/80	9: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.178
856	6/16/80	16: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.0493
857	6/17/80	10: 0: 0	7.18	<0.07	<0.08	<0.03	<0.003	2.08
858	6/19/80	13: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.0527
859	6/22/80	14: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.0580
860	6/22/80	17: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.0327
861	6/23/80	8: 0: 0	<0.003	<0.07	<0.08	<0.03	<0.003	0.0331
862	6/24/80	11: 0: 0	0.076	<0.07	<0.08	<0.03	<0.003	1.00
863	6/25/80	8:30: 0	393.	<0.6	<0.8	<0.3	<0.03	130.
864	6/29/80	11: 0: 0	135.	<0.6	<0.8	<0.3	<0.03	97.0
865	7/ 1/80	14: 0: 0	157.	<0.6	<0.8	<0.3	<0.03	101.
866	7/ 2/80	10: 0: 0	2.95	<0.07	<0.08	<0.03	<0.003	1.68

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION	MO	NI	PB	SB	SE	SN
853	6/ 9/80 13:20: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
854	6/ 9/80 17: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
855	6/11/80 9: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
856	6/16/80 16: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
857	6/17/80 10: 0: 0	<0.08	<0.04	2.04	<0.4	<0.1	<0.1
858	6/19/80 13: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
859	6/22/80 14: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
860	6/22/80 17: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
861	6/23/80 8: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
862	6/24/80 11: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1
863	6/25/80 8:30: 0	<0.8	<0.4	4.8	<4.	<1.	<1.
864	6/29/80 11: 0: 0	<0.8	<0.4	<0.5	<4.	<1.	<1.
865	7/ 1/80 14: 0: 0	<0.8	<0.4	<0.5	<4.	<1.	<1.
866	7/ 2/80 10: 0: 0	<0.08	<0.04	<0.05	<0.4	<0.1	<0.1

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

MAPCO'S CURRIER 2: 30DAY WELL TEST (JUNE, 1980)
 STEAM CONDENSATE ANALYSES/STEAM, DOWNSTR. LOW PRES. SEP.
 (SAMPLE STATION 03-02)

VR CODE	SAMPLE IDENTIFICATION		TI	V	ZN	ZR	PO4	SIO2
853	6/ 9/80	13:20: 0	<0.002	<0.003	0.421	<0.005	<0.1	<0.02
854	6/ 9/80	17: 0: 0	<0.002	<0.003	1.90	<0.005	<0.1	2.2
855	6/11/80	9: 0: 0	<0.002	<0.003	0.121	<0.005	<0.1	0.02
856	6/16/80	16: 0: 0	<0.002	<0.003	0.0701	<0.005	<0.1	<0.02
857	6/17/80	10: 0: 0	<0.002	<0.003	2.38	<0.005	<0.1	22.1
858	6/19/80	13: 0: 0	<0.002	<0.003	0.0425	<0.005	<0.1	<0.02
859	6/22/80	14: 0: 0	<0.002	<0.003	0.010	<0.005	<0.1	<0.02
860	6/22/80	17: 0: 0	<0.002	<0.003	<0.007	<0.005	<0.1	<0.02
861	6/23/80	8: 0: 0	<0.002	<0.003	0.0330	<0.005	<0.1	0.03
862	6/24/80	11: 0: 0	<0.002	<0.003	0.990	<0.005	<0.1	0.2
863	6/25/80	8:30: 0	<0.02	<0.03	84.7	<0.05	<1.	36.
864	6/29/80	11: 0: 0	<0.02	<0.03	47.2	<0.05	<1.	22.
865	7/ 1/80	14: 0: 0	<0.02	<0.03	53.5	<0.05	<1.	23.
866	7/ 2/80	10: 0: 0	<0.002	<0.003	0.449	<0.005	<0.1	0.3

Values expressed in milligrams per liter. Milligrams per liter and parts per million used interchangeably.
 N/R indicates not requested to be analyzed.

TABLE 8

MAPCO'S CURRIER 2 - 30 DAY

WELL TEST (JUNE, 1980)

BRINE ANALYSES/BRINE DOWNSTREAM OF REACTOR

(12 O'CLOCK POSITION-SAMPLE STATION 05-02)

ADIABATIC FLASHING IN CURRIER #2

ADIABATIC FLASHING IN CARRIER #2

Assumed: Bottomhole Temp. (deg F) =450
 Bottomhole Pres. (psi) =3400
 Brine molarity (calc. from flow data)=3.1
 Weight Percent CO2 in brine =1.8

Pres.(psi)	temp.(deg.F)	flash(%wt)	CO2 in steam(%wt)
0.387E+03	0.444E+03	0.114E+02	0.153E+02
0.365E+03	0.438E+03	0.118E+02	0.148E+02
0.344E+03	0.433E+03	0.123E+02	0.143E+02
0.324E+03	0.428E+03	0.128E+02	0.138E+02
0.306E+03	0.422E+03	0.132E+02	0.134E+02
0.288E+03	0.417E+03	0.137E+02	0.130E+02
0.271E+03	0.411E+03	0.141E+02	0.126E+02
0.254E+03	0.406E+03	0.146E+02	0.122E+02
0.239E+03	0.401E+03	0.151E+02	0.119E+02
0.224E+03	0.395E+03	0.155E+02	0.116E+02
0.211E+03	0.390E+03	0.159E+02	0.113E+02
0.197E+03	0.384E+03	0.164E+02	0.110E+02
0.185E+03	0.379E+03	0.168E+02	0.107E+02
0.173E+03	0.374E+03	0.173E+02	0.105E+02
0.162E+03	0.368E+03	0.177E+02	0.102E+02
0.151E+03	0.363E+03	0.181E+02	0.100E+02
0.141E+03	0.357E+03	0.186E+02	0.978E+01
0.132E+03	0.352E+03	0.190E+02	0.958E+01
0.123E+03	0.347E+03	0.194E+02	0.938E+01
0.114E+03	0.341E+03	0.198E+02	0.919E+01
0.106E+03	0.336E+03	0.203E+02	0.901E+01
0.985E+02	0.330E+03	0.207E+02	0.883E+01
0.913E+02	0.325E+03	0.211E+02	0.867E+01
0.846E+02	0.320E+03	0.215E+02	0.851E+01
0.783E+02	0.314E+03	0.219E+02	0.836E+01
0.724E+02	0.309E+03	0.223E+02	0.821E+01
0.668E+02	0.303E+03	0.227E+02	0.807E+01
0.616E+02	0.298E+03	0.232E+02	0.793E+01
0.568E+02	0.293E+03	0.236E+02	0.780E+01
0.522E+02	0.287E+03	0.240E+02	0.768E+01
0.480E+02	0.282E+03	0.244E+02	0.756E+01
0.440E+02	0.276E+03	0.247E+02	0.744E+01
0.403E+02	0.271E+03	0.251E+02	0.733E+01
0.369E+02	0.266E+03	0.255E+02	0.722E+01
0.337E+02	0.260E+03	0.259E+02	0.711E+01
0.307E+02	0.255E+03	0.263E+02	0.701E+01
0.279E+02	0.249E+03	0.267E+02	0.692E+01
0.254E+02	0.244E+03	0.271E+02	0.682E+01
0.230E+02	0.239E+03	0.275E+02	0.673E+01
0.209E+02	0.233E+03	0.278E+02	0.664E+01
0.189E+02	0.228E+03	0.282E+02	0.655E+01
0.170E+02	0.222E+03	0.286E+02	0.647E+01
0.154E+02	0.217E+03	0.290E+02	0.639E+01

TABLE 9
MAPCO'S CURRIER 2 - 30 DAY
WELL TEST (JUNE, 1980)
IDENTIFICATION OF SOLIDS ANALYZED
DURING AND AFTER FLOW TEST

HAPCO CURRIER 2 SOLID ANALYSES

VR Code	Sample ID	Date Sampled	Fe	SiO2	SEM	EDS	XRD	Remarks	Related VRC's
=====									
2457	#2	0/ 0/ 0			34	9	100	ID- fluidized bed effluent weight(ms)=55.7 weight(ms/l)=223. pulled 1st week of June,1980	0 0 0
2458	#3	0/ 0/ 0			0	10	100	ID-Fluidized bed effluent Weight(ms)=64.5 Weight(ms/l)=258. Pulled first week of June 1980.	0 0 0
2459	#4	0/ 0/ 0			0	11	100	ID-Fluidized bed effluent Weight(ms)=52.5 Weight(ms/l)=210. Pulled first week of June 1980.	0 0 0
2462	#1	0/ 0/ 0			36	14	101	ID-Settler #1 Effluent Weight(ms)=41.2 Weight(ms/l)=165. Pulled first week of June 1980.	0 0 0
2463	#2	0/ 0/ 0			0	15	101	ID-Settler #1 Effluent Weight(ms)=51.1 Weight(ms/l)=204. Pulled first week of June 1980.	0 0 0
2464	#3	0/ 0/ 0			38	16	101	ID-Settler #1 Effluent Weight(ms)=43.0 Weight(ms/l)=172. Pulled first week of June 1980.	0 0 0
2465	#4	0/ 0/ 0			0	17	101	ID-Settler #1 Effluent Weight(ms)=35.7 Weight(ms/l)=143. Pulled first week of June 1980.	0 0 0
2468	#1	0/ 0/ 0			41	22	0	ID-Reactor Weight(ms)=130.2 Weight(ms/l)=260. Pulled first week of June 1980.	0 0 0
2469	#2	0/ 0/ 0			42	23	0	ID-Reactor Weight(ms)=73.1 Weight(ms/l)=292. Pulled first week of June 1980.	0 0 0
2470	#4	0/ 0/ 0			43	24	0	ID-Reactor Weight(ms)=68.9 Weight(ms/l)=276. Pulled first week of June 1980.	0 0 0
2471	#6	0/ 0/ 0			44	25	0	ID-Reactor Weight(ms)=54.8 Weight(ms/l)=219. Pulled first week of June 1980.	0 0 0
2460	#3	6/17/80			0	12	100	ID-Fluidized bed effluent Weight(ms)=121.6 Weight(ms/l)=486.	0 0 0
2461	#4	6/17/80			0	13	100	ID-Fluidized bed effluent Weight(ms)=116.7 Weight(ms/l)=467.	0 0 0
2466	#5	6/17/80			37	18	101	ID-Settler #1 Effluent Weight(ms)=42.3 Weight(ms/l)=169. Pulled first week of June 1980.	0 0 0
2467	#6	6/17/80			0	19	101	ID-Settler #1 Effluent Weight(ms)=42.6 Weight(ms/l)=170. Pulled first week of June 1980.	0 0 0
2472	None	6/17/80			45	26	0	ID-Reactor Weight(ms)=186.2 Weight(ms/l)=745. 6/17/80	0 0 0
2473	None	6/17/80			46	27	0	ID-Reactor Weight(ms)=162.4 Weight(ms/l)=649. 6/17/80	0 0 0
2474	#1	6/18/80			39	20	0	ID-Injection Line Weight(ms)=28.0 Weight(ms/l)=111. 6/18/80	0 0 0
2475	#2	6/18/80			40	21	0	ID-Injection Line Weight(ms)=35.0 Weight(ms/l)=141. 6/18/80	0 0 0
2476	2	6/19/80	20.4	34.9	51	32	0	ID-Btwn fluid bed & set tanks Weight(ms)=47.7 Weight(ms/l)=191.	436 782 0
2477	3	6/19/80			52	33	0	ID-Chamber 1,tor;set tank 1 Weight(ms)=41.0 Weight(ms/l)=164.	437 0 0
2478	4	6/19/80			53	34	0		438 0 0
2479	5	6/19/80			54	35	0	ID-Chamber 3,tor;set tank 1 Weight(ms)=32.9 Weight(ms/l)=132.	439 0 0
2480	6	6/19/80	20.5	39.0	55	36	0	ID-Chamber 4,tor;set tank 1 Weight(ms)=25.2 Weight(ms/l)=101.	440 783 0
2481	7	6/19/80			56	37	0	ID-Effluent set tank 1 Weight(ms)=28.7 Weight(ms/l)=115.	441 0 0
2482	8	6/19/80			57	38	0	ID-2nd port from bottom of set tank 1 Weight(ms)=43.8 Weight(ms/l)=175	442 0 0
2483	9	6/19/80			58	39	0	ID-3rd port from bottom of set tank 1 Weight(ms)=31.3 Weight(ms/l)=125	443 0 0
2484	10	6/19/80			59	40	0	ID-4th port from bottom of set tank 1 Weight(ms)=30.5 Weight(ms/l)=122	444 0 0
2485	11	6/19/80			60	41	0	ID-5th port from bottom of set tank 1 Weight(ms)=28.2 Weight(ms/l)=113	445 0 0
2486	12	6/19/80			61	42	0	ID-Injection wellhead Weight(ms)=12.0 Weight(ms/l)=48.	446 0 0
2487	13	6/19/80	25.5	31.2	62	43	0	ID-Before Baker tanks Weight(ms)=32.0 Weight(ms/l)=128.	447 784 0
2488	14	6/19/80			63	44	0	ID-Baker tank 1 Weight(ms)=39.3 Weight(ms/l)=157.	448 0 0
2489	15	6/19/80			64	45	0	ID-Baker tank 2 Weight(ms)=208.8 Weight(ms/l)=835.	449 0 0
2490	16	6/19/80			65	46	0	ID-Before filters Weight(ms)=42.1 Weight(ms/l)=168.	450 0 0

VRC 436-454 are filtrates; SiO2 values are available.

Time sampled for VRC 2476-2490 is 08:30.

MAPCO CURRIER 2 SOLID ANALYSES

VR Code	Sample ID	Date Sampled	Fe	SiO2	SEM	EDS	XRD	Remarks	Related VRC's
2582	1	6/22/80			81	62	0	ID-Before fluid bed 1 Weight(ms)=52.8 Weight(ms/l)=211.	520 0 0
2583	2	6/22/80	17.0	39.1	82	63	0	ID-Btwn fluid bed 1 set tank Weight(ms)=63.4 Weight(ms/l)=254.	521 790 0
2584	3	6/22/80			83	64	0	ID-Chamber 1,top;set tank 1 Weight(ms)=44.7 Weight(ms/l)=179.	522 0 0
2585	4	6/22/80			84	65	0	ID-Chamber 2,top;set tank 1 Weight(ms)=33.8 Weight(ms/l)=135.	523 0 0
2586	5	6/22/80			85	66	0	ID-Chamber 3,top;set tank 1 Weight(ms)=33.2 Weight(ms/l)=133.	524 0 0
2587	6	6/22/80	20.1	40.6	86	67	0	ID-Chamber 4,top;set tank 1 Weight(ms)=31.0 Weight(ms/l)=124.	525 791 0
2588	7	6/22/80			87	68	0	ID-2 port frm btm of chamber 2;set tank 1 Wt.(ms)=99.7 Wt.(ms/l)=399.	526 0 0
2589	8	6/22/80			88	69	0	ID-3 port frm btm of chamber 2;set tank 1 Wt.(ms)=48.0 Wt.(ms/l)=192.	527 0 0
2590	9	6/22/80			89	70	0	ID-4 port frm btm of chamber 2;set tank 1 Wt.(ms)=54.0 Wt.(ms/l)=216.	528 0 0
2591	10	6/22/80			90	71	0	ID-5 port frm btm of chamber 2;set tank 1 Wt.(ms)=51.7 Wt.(ms/l)=207.	529 0 0
2592	11	6/22/80			91	72	0	ID-Effluent settling tank Weight(ms)=41.8 Weight(ms/l)=167.	530 0 0
2593	12	6/22/80	22.5	44.6	92	73	0	ID-Effluent all set tanks Weight(ms)=37.6 Weight(ms/l)=150.	531 792 0
2594	13	6/22/80	30.7	52.8	93	74	0	ID-Line into Baker tanks Weight(ms)=35.2 Weight(ms/l)=141.	532 793 0
2595	14	6/22/80			94	75	0	ID-Baker tank 1 Weight(ms)=39.2 Weight(ms/l)=157.	533 0 0
2596	16	6/22/80			95	76	0	ID-Line frm Baker tanks to filters Wt.(ms)=35.6 Wt.(ms/l)=142.	534 0 0
2597	17	6/22/80			96	77	0	ID-Injection wellhead Weight(ms)=31.4 Weight(ms/l)=126.	535 0 0
2588	1	6/26/80			97	78	0	ID-Upstream FBI Weight(ms)=55.5 Weight(ms/l)=222.	536 0 0
2589	2	6/26/80	19.9	54.2	0	79	0	ID-Between FBs and SFs Weight(ms)=43.6 Weight(ms/l)=174.	537 787 0
2570	3	6/26/80			98	80	0	ID-ST1,CH1 Weight(ms)=43.6 Weight(ms/l)=174.	538 0 0
2571	4	6/26/80			99	81	0	ID-ST1,CH2 Weight(ms)=39.2 Weight(ms/l)=157.	539 0 0
2572	5	6/26/80			100	82	0	ID-ST1,CH3 Weight(ms)=38.4 Weight(ms/l)=154.	540 0 0
2573	6	6/26/80	24.6	45.1	0	83	0	ID-ST1,CH4 Weight(ms)=32.7 Weight(ms/l)=131.	541 788 0
2574	8	6/26/80			101	84	0	ID-S1,P3 Weight(ms)=47.4 Weight(ms/l)=190.	542 0 0
2575	9	6/26/80			102	85	0	ID-ST1,P4 Weight(ms)=43.3 Weight(ms/l)=173.	543 0 0
2576	10	6/26/80			103	86	0	ID-ST1,PS Weight(ms)=41.3 Weight(ms/l)=165.	544 0 0
2577	11	6/26/80			104	87	0	ID-Downstream ST1 Weight(ms)=32.9 Weight(ms/l)=132.	545 0 0
2578	12	6/26/80	21.0	39.1	105	88	0	ID-Downstream STs Weight(ms)=30.6 Weight(ms/l)=122.	546 789 0
2579	13	6/26/80			106	89	0	ID-Line to Baker tank Weight(ms)=34.8 Weight(ms/l)=139.	547 0 0
2580	15	6/26/80			107	90	0	ID-BT 2 Weight(ms)=31.5 Weight(ms/l)=126.	548 0 0
2581	17	6/26/80			108	91	0	ID-Injection wellhead Weight(ms)=35.9 Weight(ms/l)=144.	549 0 0
2598	1	6/28/80			66	47	0	ID-Upstream fluidized bed Weight(ms)=72.2 Weight(ms/l)=289.	550 0 0
2599	2	6/28/80	19.5	35.8	67	48	0	ID-Btwn fluid bed 1 set Weight(ms)=60.8 Weight(ms/l)=243.	551 794 0
2600	3	6/28/80			68	49	0	ID-Set tank 1,cell 1 (top) Weight(ms)=21.4 Weight(ms/l)=86.	552 0 0
2601	4	6/28/80			69	50	0	ID-Set tank 1,cell 2 (top) Weight(ms)=22.3 Weight(ms/l)=89.	557 0 0
2602	5	6/28/80			70	51	0	ID-Set tank 1,cell 1 (top) Weight(ms)=13.5 Weight(ms/l)=54.	553 0 0
2603	6	6/28/80	25.3	38.5	71	52	0	ID-Set tank 1,cell 4 (top) Weight(ms)=20.9 Weight(ms/l)=84.	554 795 0
2604	7	6/28/80			72	53	0	ID-Set tank 1,port 4 Weight(ms)=24.8 Weight(ms/l)=99.	555 0 0
2605	8	6/28/80			73	54	0	ID-Set tank 1,port 5 Weight(ms)=24.6 Weight(ms/l)=98.	556 0 0
2606	9	6/28/80			74	55	0	ID-Downstream settling tank 1 Weight(ms)=31.4 Weight(ms/l)=126.	558 0 0
2607	11	6/28/80	21.8	40.6	75	56	0	ID-Line to Baker tanks Weight(ms)=48.8 Weight(ms/l)=195.	559 796 0
2608	12	6/28/80			76	57	0	ID-Baker tank 1 Weight(ms)=27.7 Weight(ms/l)=111.	560 0 0
2609	13	6/28/80			77	58	0	ID-Baker tank 2 Weight(ms)=34.0 Weight(ms/l)=136.	561 0 0
2610	14	6/28/80			78	59	0	ID-Injection wellhead Weight(ms)=29.5 Weight(ms/l)=118.	562 0 0
2611	15	6/28/80			79	60	0	ID-Set tank 1, cell 4 Weight(ms)=25.2 Weight(ms/l)=101.	563 0 0
2612	16	6/28/80			80	61	0	ID-Set tank 4, cell 4 Weight(ms)=25.9 Weight(ms/l)=104.	564 0 0
2491	1	7/ 1/80			47	28	0	ID-Upstream FB 2 Weight(ms)=65.6 Weight(ms/l)=262.	778 0 0
2492	2	7/ 1/80	24.6	37.1	48	29	0	ID-Between FBs and STs Weight(ms)=73.7 Weight(ms/l)=295.	779 785 0
2493	3	7/ 1/80	28.6	40.4	49	30	0	ID-Downstream STs Weight(ms)=43.4 Weight(ms/l)=174.	780 786 0
2494	5	7/ 1/80			50	31	0	ID-Injection wellhead Weight(ms)=37.2 Weight(ms/l)=149.	781 0 0

VR 520-564 are filtrates; SiO2 values are available.
 Time sampled for VRC 2582-2597 is 18:00.
 Time sampled for VRC 2568-2581 is not given.
 VR 550-564 are filtrates; SiO2 values are available.