

May 6, 1987

From: M.B. Pierce  
Superintendent  
Magma Electric Co

To: R.L. Tenney  
Manager of Operations  
Imperial Valley

Subject: Monthly Status Report, April 1987

#### I. Status

The facility has been on line 99.93 percent of the month, with gross generation of 8470 Megawatt hours and sales of 5487 Megawatt hours. The average brine flow has been 1.4 M lbs/hr (3050 gpm) at 349 degrees F in and 160 degrees F out. The half hour downtime was caused by an oil temperature switch on the main generator and gear assembly. The alarm and trip points of the switch were checked and reset and we have had no further problems.

#### II. Production Well Highlights

The production wells were on line 100 % of the month and have maintained a very steady production rate. Production well number 5 (48-7) has had no significant change in production rates since the scale inhibitor tests began February 3rd. Work is nearing completion on production well 44-7. The preliminary flow and temperature tests were very encouraging. The well will be ready for production by the third week of May.

111. Problems And Solutions:

With the onset of the summer months, the facility is plagued by increasing injection temperatures in the brine circuit. This in turn raises the injection pressure needed to force the brine into the wells. Methods to increase the brine injectivity are currently being explored, so that we may offset any rate reductions incurred from this condition.



Michael B. Pierce

MBP/jb

CC: A.L. Johnson  
A.W. Hoch  
T.C. Hinrichs  
R.L. Tenney  
B.C. McCabe  
A. Taylor  
P.M. Pankratz  
J.M. Leathers  
R.L. Walzel  
F. Teeters  
S.G. Stiger  
P.M. Wright  
M. Lipmann  
R.E. Corbaley  
Buck McCabe  
G.K. Crane  
S. Haggerty

| PLANT   | BRINE FLOW | TEMP IN | TEMP OUT  | GROSS MW | NET MW | HOURS | COOLING H2O | COND  | WGT BULK  | HEAT RATE | PLANT | TURBINE IN | TURBINE OUT |
|---------|------------|---------|-----------|----------|--------|-------|-------------|-------|-----------|-----------|-------|------------|-------------|
| APR 87  | LPS/HR     | DEGREES | DEGREES F | DAY      | DAY    | DAY   | DEGREES F   | PRESS | DEGREES F | LBS/KW    | EFF.  | DEGREES F. | DEGREES F.  |
| 1       | 1409867    | 349     | 157       | 294      | 175    | 24.0  | 62.7        | 43.3  | 64.0      | 115.1     | 15.4  | 300        | 144         |
| 2       | 1409867    | 349     | 157       | 294      | 193    | 24.0  | 63.3        | 44.0  | 68.0      | 115.1     | 15.4  | 300        | 145         |
| 3       | 1400867    | 349     | 158       | 280      | 187    | 23.5  | 64.0        | 44.7  | 64.0      | 117.6     | 15.2  | 300        | 144         |
| 4       | 1401867    | 349     | 158       | 294      | 194    | 24.0  | 64.0        | 44.0  | 65.3      | 114.4     | 15.6  | 300        | 145         |
| 5       | 1401000    | 349     | 158       | 280      | 183    | 24.0  | 62.7        | 44.0  | 63.0      | 120.1     | 14.9  | 300        | 145         |
| 6       | 1403000    | 349     | 156       | 280      | 191    | 24.0  | 65.0        | 45.7  | 64.7      | 120.3     | 14.9  | 300        | 145         |
| 7       | 1404000    | 347     | 160       | 294      | 186    | 24.0  | 67.3        | 47.3  | 65.0      | 114.6     | 15.9  | 302        | 147         |
| 8       | 1403333    | 349     | 160       | 280      | 193    | 24.0  | 68.7        | 49.3  | 68.3      | 120.3     | 15.0  | 300        | 147         |
| 9       | 1400000    | 349     | 160       | 280      | 183    | 24.0  | 68.0        | 50.3  | 68.7      | 120.0     | 15.0  | 300        | 143         |
| 10      | 1402333    | 349     | 161       | 280      | 190    | 24.0  | 68.6        | 50.5  | 62.0      | 120.2     | 15.1  | 300        | 148         |
| 11      | 1400867    | 350     | 161       | 280      | 179    | 24.0  | 70.0        | 51.4  | 59.3      | 120.1     | 15.0  | 300        | 140         |
| 12      | 1401867    | 350     | 160       | 280      | 184    | 24.0  | 67.6        | 49.3  | 54.3      | 126.1     | 14.9  | 360        | 147         |
| 13      | 1401000    | 350     | 160       | 294      | 187    | 24.0  | 57.3        | 48.0  | 58.3      | 114.4     | 15.7  | 300        | 147         |
| 14      | 1400000    | 350     | 159       | 280      | 184    | 23.0  | 66.7        | 49.0  | 58.3      | 120.0     | 14.7  | 300        | 147         |
| 15      | 1400000    | 350     | 160       | 280      | 184    | 24.0  | 67.3        | 47.0  | 60.0      | 120.0     | 15.0  | 300        | 147         |
| 16      | 1400000    | 350     | 160       | 280      | 189    | 24.0  | 69.0        | 50.8  | 60.6      | 120.0     | 15.0  | 300        | 148         |
| 17      | 1400000    | 350     | 160       | 280      | 179    | 24.0  | 70.3        | 51.6  | 62.0      | 120.0     | 15.0  | 300        | 149         |
| 18      | 1400000    | 350     | 160       | 290      | 178    | 24.0  | 69.0        | 51.3  | 57.0      | 120.0     | 15.0  | 300        | 148         |
| 19      | 1400000    | 350     | 158       | 280      | 187    | 24.0  | 65.6        | 46.6  | 53.0      | 120.0     | 14.8  | 300        | 145         |
| 20      | 1400000    | 350     | 157       | 294      | 192    | 24.0  | 63.7        | 45.3  | 51.0      | 114.3     | 15.5  | 300        | 145         |
| 21      | 1400867    | 350     | 157       | 294      | 189    | 24.0  | 63.6        | 45.3  | 55.6      | 114.3     | 15.5  | 300        | 144         |
| 22      | 1398867    | 348     | 158       | 280      | 187    | 24.0  | 65.5        | 47.0  | 59.8      | 115.7     | 15.0  | 300        | 145         |
| 23      | 1398333    | 349     | 160       | 280      | 181    | 24.0  | 67.1        | 49.0  | 63.3      | 119.7     | 15.1  | 300        | 147         |
| 24      | 1394333    | 349     | 160       | 280      | 175    | 24.0  | 68.5        | 50.8  | 61.6      | 119.5     | 15.1  | 300        | 147         |
| 25      | 1399000    | 349     | 161       | 266      | 175    | 24.0  | 71.0        | 52.8  | 63.6      | 126.2     | 14.4  | 300        | 143         |
| 26      | 1400000    | 349     | 161       | 294      | 173    | 24.0  | 71.0        | 52.6  | 64.8      | 114.3     | 15.9  | 300        | 149         |
| 27      | 1400000    | 349     | 162       | 266      | 174    | 24.0  | 72.7        | 53.7  | 66.7      | 126.3     | 14.4  | 300        | 150         |
| 28      | 1399000    | 349     | 162       | 266      | 172    | 21.0  | 73.0        | 55.0  | 67.3      | 126.2     | 14.5  | 300        | 151         |
| 29      | 1405000    | 349     | 162       | 280      | 171    | 24.0  | 73.7        | 55.3  | 66.3      | 120.4     | 15.2  | 300        | 150         |
| 30      | 1400000    | 349     | 161       | 280      | 176    | 24.0  | 73.3        | 54.0  | 65.0      | 120.0     | 15.1  | 300        | 147         |
| AVERAGE | 1400979    | 347     | 160       | 282      | 183    | 24    | 68          | 49    | 62        | 119       | 15    | 300        | 147         |
| TOTAL   | 1000011538 |         |           | 8470     | 5487   | 720   |             |       |           |           |       |            |             |

ON LINE PERCENTAGE = 99.93%

PEAK PERIOD AVERAGE = 7.57

MID PEAK AVERAGE = 8.03

OFF PEAK AVERAGE = 7.43

| MEGAWATTS<br>APRIL 87 | PEAK<br>PER DAY | MID PEAK<br>PER DAY | OFF PEAK<br>PER DAY | PEAK<br>AVERAGE | MID PEAK<br>AVERAGE | OFF PEAK<br>AVERAGE | TOTAL<br>PER DAY | AVERAGE<br>PER HOUR |
|-----------------------|-----------------|---------------------|---------------------|-----------------|---------------------|---------------------|------------------|---------------------|
| 1                     | 32              | 76                  | 87                  | 8.00            | 8.44                | 7.91                | 195              | 8.13                |
| 2                     | 31              | 76                  | 86                  | 7.75            | 8.44                | 7.82                | 193              | 8.04                |
| 3                     | 33              | 74                  | 80                  | 8.25            | 8.22                | 7.27                | 187              | 7.79                |
| 4                     |                 |                     | 194                 | 0.00            | 0.00                | 8.08                | 194              | 8.08                |
| 5                     |                 |                     | 183                 | 0.00            | 0.00                | 7.96                | 183              | 7.63                |
| 6                     | 32              | 74                  | 85                  | 8.00            | 8.22                | 7.73                | 191              | 7.96                |
| 7                     | 31              | 73                  | 82                  | 7.75            | 8.11                | 7.45                | 186              | 7.75                |
| 8                     | 31              | 72                  | 80                  | 7.75            | 8.00                | 7.27                | 183              | 7.63                |
| 9                     | 30              | 72                  | 81                  | 7.50            | 8.00                | 7.36                | 183              | 7.63                |
| 10                    | 30              | 71                  | 79                  | 7.50            | 7.89                | 7.18                | 180              | 7.50                |
| 11                    |                 |                     | 179                 | 0.00            | 0.00                | 7.46                | 179              | 7.46                |
| 12                    |                 |                     | 184                 | 0.00            | 0.00                | 7.67                | 184              | 7.67                |
| 13                    | 31              | 74                  | 82                  | 7.75            | 8.22                | 7.45                | 187              | 7.79                |
| 14                    | 30              | 73                  | 81                  | 7.50            | 8.11                | 7.36                | 184              | 7.67                |
| 15                    | 30              | 72                  | 81                  | 7.50            | 8.00                | 7.36                | 183              | 7.63                |
| 16                    | 29              | 71                  | 80                  | 7.25            | 7.89                | 7.27                | 180              | 7.50                |
| 17                    |                 |                     | 179                 | 0.00            | 0.00                | 7.46                | 179              | 7.46                |
| 18                    |                 |                     | 178                 | 0.00            | 0.00                | 7.42                | 178              | 7.41                |
| 19                    |                 |                     | 187                 | 0.00            | 0.00                | 7.79                | 187              | 7.79                |
| 20                    | 31              | 76                  | 85                  | 7.75            | 8.44                | 7.73                | 192              | 8.00                |
| 21                    | 30              | 75                  | 84                  | 7.50            | 8.33                | 7.64                | 189              | 7.88                |
| 22                    | 31              | 74                  | 82                  | 7.75            | 8.22                | 7.45                | 187              | 7.79                |
| 23                    | 30              | 71                  | 80                  | 7.50            | 7.89                | 7.27                | 181              | 7.54                |
| 24                    | 30              | 70                  | 79                  | 7.50            | 7.78                | 7.18                | 179              | 7.46                |
| 25                    |                 |                     | 175                 | 0.00            | 0.00                | 7.29                | 175              | 7.29                |
| 26                    |                 |                     | 175                 | 0.00            | 0.00                | 7.29                | 175              | 7.29                |
| 27                    | 28              | 69                  | 77                  | 7.00            | 7.67                | 7.00                | 174              | 7.25                |
| 28                    | 28              | 68                  | 76                  | 7.00            | 7.56                | 6.91                | 172              | 7.17                |
| 29                    | 28              | 67                  | 76                  | 7.00            | 7.44                | 6.91                | 171              | 7.13                |
| 30                    | 30              | 69                  | 77                  | 7.50            | 7.67                | 7.00                | 176              | 7.33                |
| TOTAL                 | 636             | 1517                | 3334                |                 |                     |                     | 5487             |                     |
| AVERAGE               | 30.3            | 72.2                | 111.1               | 7.57            | 8.03                | 7.43                | 183              | 7.62                |
| PEAK EARNINGS         |                 | 72912.00            |                     |                 |                     |                     |                  |                     |
| MID PEAK              |                 | 124043.30           |                     |                 |                     |                     |                  |                     |
| OFF PEAK              |                 | 196738.00           |                     |                 |                     |                     |                  |                     |
| BONUS PAYMENT         |                 | 12330.00            |                     |                 |                     |                     |                  |                     |
| TOTAL                 |                 | 406023.30           |                     |                 |                     |                     |                  |                     |

| POWER DATE | SPRAYS PANEL | WELLS PANEL | TOSHIBA PANEL | KVA PANEL | TELEC BFP PANEL | GROSS MW PANEL | MW BOUGHT 31 DK METER | MW SOLD 31 K METER | DEMAND METER |
|------------|--------------|-------------|---------------|-----------|-----------------|----------------|-----------------------|--------------------|--------------|
| APR B7     | 201          | 202         | 203           | 204       | 206             | 207            |                       |                    |              |
| 1          | 14.0         | 25.2        | 33.6          | 2.8       | 24.5            | 294.0          | 0.0                   | 195.0              | 4.1          |
| 2          | 15.4         | 21.0        | 33.6          | 4.2       | 24.5            | 294.0          | 0.0                   | 193.0              | 4.3          |
| 3          | 12.6         | 25.2        | 33.6          | 2.8       | 24.5            | 280.0          | 2.0                   | 187.0              | 4.3          |
| 4          | 12.6         | 21.0        | 33.6          | 4.2       | 24.5            | 294.0          | 0.0                   | 194.0              | 4.3          |
| 5          | 15.4         | 21.0        | 33.6          | 2.8       | 21.0            | 280.0          | 0.0                   | 183.0              | 4.3          |
| 6          | 15.4         | 21.0        | 33.6          | 2.8       | 21.0            | 280.0          | 0.0                   | 191.0              | 4.3          |
| 7          | 14.0         | 21.0        | 33.6          | 4.2       | 24.5            | 294.0          | 0.0                   | 186.0              | 4.3          |
| 8          | 14.0         | 21.0        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 183.0              | 4.3          |
| 9          | 14.0         | 21.0        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 183.0              | 4.3          |
| 10         | 15.4         | 25.2        | 37.8          | 4.2       | 24.5            | 280.0          | 0.0                   | 180.0              | 4.3          |
| 11         | 14.0         | 21.0        | 33.6          | 2.8       | 21.0            | 280.0          | 0.0                   | 179.0              | 4.3          |
| 12         | 14.0         | 21.0        | 33.6          | 4.2       | 24.5            | 294.0          | 0.0                   | 184.0              | 4.3          |
| 13         | 14.0         | 21.0        | 33.6          | 2.8       | 24.5            | 280.0          | 0.0                   | 187.0              | 4.3          |
| 14         | 14.0         | 25.2        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 184.0              | 4.3          |
| 15         | 14.0         | 25.2        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 183.0              | 4.3          |
| 16         | 14.0         | 21.0        | 33.6          | 2.8       | 21.0            | 280.0          | 0.0                   | 180.0              | 4.3          |
| 17         | 14.0         | 25.2        | 29.4          | 2.8       | 24.5            | 280.0          | 0.0                   | 179.0              | 4.3          |
| 18         | 15.4         | 21.0        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 178.0              | 4.3          |
| 19         | 15.4         | 21.0        | 33.6          | 2.8       | 24.5            | 280.0          | 0.0                   | 187.0              | 4.3          |
| 20         | 14.0         | 25.2        | 33.6          | 4.2       | 24.5            | 294.0          | 0.0                   | 192.0              | 4.3          |
| 21         | 14.0         | 21.0        | 37.8          | 2.8       | 24.5            | 294.0          | 0.0                   | 189.0              | 4.3          |
| 22         | 12.6         | 25.2        | 29.4          | 4.2       | 21.0            | 280.0          | 0.0                   | 187.0              | 4.3          |
| 23         | 15.4         | 21.0        | 33.6          | 2.8       | 24.5            | 280.0          | 0.0                   | 181.0              | 4.3          |
| 24         | 14.0         | 25.2        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 179.0              | 4.3          |
| 25         | 14.0         | 21.0        | 37.8          | 2.8       | 21.0            | 266.0          | 0.0                   | 175.0              | 0.0          |
| 26         | 15.4         | 25.2        | 29.4          | 4.2       | 24.5            | 294.0          | 0.0                   | 175.0              | 0.0          |
| 27         | 12.6         | 21.0        | 33.6          | 2.8       | 24.5            | 266.0          | 0.0                   | 174.0              | 0.0          |
| 28         | 14.0         | 21.0        | 33.6          | 2.8       | 24.5            | 266.0          | 0.0                   | 172.0              | 0.0          |
| 29         | 15.4         | 25.2        | 33.6          | 4.2       | 24.5            | 280.0          | 0.0                   | 171.0              | 0.0          |
| 30         | 14.0         | 25.2        | 33.6          | 2.8       | 24.5            | 280.0          | 0.0                   | 176.0              | 0.0          |
| AVERAGE    | 14.2         | 22.7        | 33.6          | 3.5       | 23.8            | 282.3          |                       | 182.9              |              |
| TOTAL      | 427.0        | 680.4       | 1008.0        | 105.0     | 714.0           | 8470.0         | 2.0                   | 5487.0             |              |

METER DIFFERENCE = 50.6 (GROSS MW + MW BOUGHT) - (MW SOLD + PARASITICS)

| WELLS  | WELL #1 | WELL #2 | WELL #3 | WELL #4 | WELL #5 | WELL #6 | WELL #7 | WELL #8 | WELL #9 | WELL #10 | TOTAL   |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| DATE   | FLOW    | FLOW    | FLOW    | FLOW    | FLOW    | FLOW    | FLOW    | FLOW    | FLOW    | FLOW     | BRINE   |
| APR 87 | 44-7A   | 44-7    | 44-7B   | 48-7A   | 48-7    | 88-7    | 63-7    | 61-7    | 81-7    | 83-7     | FLOW    |
| 1      |         |         | 1155000 | 1237000 | 1280000 | 1204000 | 1160000 | 1138000 | 1112000 | 150000   | 1436000 |
| 2      |         |         | 1157000 | 1236000 | 1281000 | 1201000 | 1160000 | 1137000 | 1111000 | 150000   | 1433000 |
| 3      |         |         | 1156000 | 1238000 | 1281000 | 1204000 | 1160000 | 1137000 | 1112000 | 150000   | 1438000 |
| 4      |         |         | 1154000 | 1234000 | 1281000 | 1207000 | 1160000 | 1137000 | 1112000 | 150000   | 1435000 |
| 5      |         |         | 1154000 | 1232000 | 1281000 | 1203000 | 1160000 | 1137000 | 1111000 | 150000   | 1428000 |
| 6      |         |         | 1158000 | 1233000 | 1281000 | 1203000 | 1160000 | 1137000 | 1111000 | 149000   | 1432000 |
| 7      |         |         | 1156000 | 1231000 | 1283000 | 1205000 | 1160000 | 1136000 | 1110000 | 148000   | 1429000 |
| 8      |         |         | 1159000 | 1231000 | 1282000 | 1204000 | 1160000 | 1135000 | 1110000 | 148000   | 1429000 |
| 9      |         |         | 1160000 | 1232000 | 1282000 | 1203000 | 1160000 | 1135000 | 1107000 | 148000   | 1429000 |
| 10     |         |         | 1161000 | 1234000 | 1281000 | 1202000 | 1160000 | 1135000 | 1109000 | 148000   | 1430000 |
| 11     |         |         | 1159000 | 1233000 | 1281000 | 1200000 | 1160000 | 1135000 | 1109000 | 148000   | 1425000 |
| 12     |         |         | 1157000 | 1232000 | 1280000 | 1201000 | 1160000 | 1135000 | 1107000 | 148000   | 1422000 |
| 13     |         |         | 1157000 | 1235000 | 1281000 | 1203000 | 1160000 | 1135000 | 1109000 | 148000   | 1428000 |
| 14     |         |         | 1158000 | 1232000 | 1280000 | 1202000 | 1160000 | 1135000 | 1111000 | 148000   | 1426000 |
| 15     |         |         | 1161000 | 1232000 | 1279000 | 1203000 | 1160000 | 1135000 | 1109000 | 148000   | 1427000 |
| 16     |         |         | 1161000 | 1233000 | 1280000 | 1203000 | 1159000 | 1134000 | 1109000 | 147000   | 1426000 |
| 17     |         |         | 1164000 | 1232000 | 1280000 | 1203000 | 1158000 | 1134000 | 1107000 | 146000   | 1426000 |
| 18     |         |         | 1157000 | 1233000 | 1281000 | 1203000 | 1160000 | 1133000 | 1107000 | 146000   | 1420000 |
| 19     |         |         | 1158000 | 1235000 | 1281000 | 1203000 | 1160000 | 1134000 | 1108000 | 146000   | 1425000 |
| 20     |         |         | 1158000 | 1235000 | 1282000 | 1202000 | 1160000 | 1135000 | 1108000 | 147000   | 1427000 |
| 21     |         |         | 1160000 | 1239000 | 1280000 | 1202000 | 1160000 | 1134000 | 1108000 | 148000   | 1431000 |
| 22     |         |         | 1162000 | 1232000 | 1280000 | 1200000 | 1160000 | 1134000 | 1107000 | 146000   | 1421000 |
| 23     |         |         | 1162000 | 1232000 | 1282000 | 1200000 | 1160000 | 1133000 | 1107000 | 146000   | 1422000 |
| 24     |         |         | 1163000 | 1230000 | 1282000 | 1200000 | 1160000 | 1133000 | 1106000 | 146000   | 1420000 |
| 25     |         |         | 1164000 | 1235000 | 1280000 | 1201000 | 1160000 | 1131000 | 1114000 | 144000   | 1429000 |
| 26     |         |         | 1168000 | 1235000 | 1285000 | 1198000 | 1159000 | 1131000 | 1115000 | 144000   | 1435000 |
| 27     |         |         | 1168000 | 1236000 | 1278000 | 1199000 | 1160000 | 1131000 | 1105000 | 144000   | 1421000 |
| 28     |         |         | 1167000 | 1235000 | 1280000 | 1201000 | 1159000 | 1132000 | 1105000 | 144000   | 1423000 |
| 29     |         |         | 1167000 | 1236000 | 1283000 | 1201000 | 1159000 | 1132000 | 1105000 | 144000   | 1427000 |
| 30     |         |         | 1165000 | 1234000 | 1282000 | 1204000 | 1159000 | 1132000 | 1106000 | 146000   | 1428000 |
| AVG    |         |         | 160200  | 233800  | 281000  | 202233  | 159767  | 134400  | 109033  | 147167   | 1427600 |

| INJECTION | 46-7B | WELL 46-7B | 46-7 | WELL 46-7 | 84-7 | WELL 84-7 | TOTAL      |
|-----------|-------|------------|------|-----------|------|-----------|------------|
| WELLS     | #1    | #1         | #3   | #3        | #4   | #4        | BRINE      |
| APR 87    | PSIG  | FLOW       | PSIG | FLOW      | PSIG | FLOW      | FLOW       |
| 1         | 465   | 990000     | 468  | 66000     | 445  | 384000    | 1440000    |
| 2         | 466   | 1000000    | 468  | 66000     | 448  | 378000    | 1444000    |
| 3         | 466   | 1010000    | 468  | 66000     | 447  | 378000    | 1454000    |
| 4         | 466   | 1010000    | 469  | 66000     | 447  | 378000    | 1454000    |
| 5         | 467   | 980000     | 470  | 66000     | 448  | 378000    | 1424000    |
| 6         | 468   | 980000     | 470  | 66000     | 449  | 378000    | 1424000    |
| 7         | 468   | 1000000    | 470  | 72000     | 450  | 378000    | 1450000    |
| 8         | 470   | 990000     | 470  | 72000     | 450  | 378000    | 1440000    |
| 9         | 470   | 990000     | 471  | 72000     | 450  | 384000    | 1446000    |
| 10        | 470   | 990000     | 473  | 66000     | 451  | 384000    | 1440000    |
| 11        | 470   | 990000     | 475  | 66000     | 450  | 384000    | 1440000    |
| 12        | 471   | 990000     | 475  | 66000     | 452  | 384000    | 1440000    |
| 13        | 472   | 990000     | 474  | 66000     | 451  | 384000    | 1440000    |
| 14        | 473   | 990000     | 475  | 66000     | 451  | 378000    | 1434000    |
| 15        | 473   | 1000000    | 476  | 66000     | 454  | 384000    | 1450000    |
| 16        | 474   | 1000000    | 474  | 66000     | 452  | 384000    | 1450000    |
| 17        | 475   | 990000     | 476  | 66000     | 454  | 384000    | 1440000    |
| 18        | 475   | 990000     | 480  | 66000     | 454  | 384000    | 1440000    |
| 19        | 473   | 990000     | 476  | 66000     | 450  | 378000    | 1434000    |
| 20        | 470   | 990000     | 474  | 66000     | 450  | 378000    | 1434000    |
| 21        | 470   | 990000     | 471  | 66000     | 450  | 378000    | 1434000    |
| 22        | 473   | 990000     | 477  | 66000     | 455  | 378000    | 1434000    |
| 23        | 476   | 990000     | 478  | 66000     | 458  | 378000    | 1434000    |
| 24        | 478   | 990000     | 480  | 66000     | 460  | 384000    | 1440000    |
| 25        | 481   | 1000000    | 481  | 66000     | 461  | 378000    | 1444000    |
| 26        | 480   | 1000000    | 482  | 66000     | 463  | 378000    | 1444000    |
| 27        | 482   | 990000     | 483  | 60000     | 462  | 378000    | 1428000    |
| 28        | 481   | 1000000    | 483  | 60000     | 462  | 378000    | 1438000    |
| 29        | 483   | 1010000    | 485  | 60000     | 462  | 378000    | 1448000    |
| 30        | 483   | 1010000    | 483  | 60000     | 461  | 372000    | 1442000    |
| AVERAGE   | 473   | 994333     | 475  | 65800     | 453  | 380000    | 1440133    |
| TOTAL     |       | 715920000  |      | 47376000  |      | 273600000 | 1036876000 |

| WELL NUMBER | WELLHEAD | TEMPERATURE | NITROGEN | ANNULUS | FLOW      | HOURS | AMPS | WFSH  | WFSH  | FLOW  | POWER CONSUMPTION |
|-------------|----------|-------------|----------|---------|-----------|-------|------|-------|-------|-------|-------------------|
| APRIL 87    | PSIG     | DEGREES F.  | PSIG     | PSIG    | LBS/HR    |       |      | FEET  | PSIG  | GPH   | KW/1,000,000 LBS  |
| 1           | 288      | 330         | 311      | 21      | 155000    | 24.0  | 115  | 739.5 | 305.7 | 348.8 | 616.1             |
| 2           | 287      | 330         | 325      | 21      | 157000    | 24.0  | 115  | 775.2 | 319.5 | 353.3 | 608.3             |
| 3           | 288      | 330         | 322      | 21      | 156000    | 24.0  | 116  | 767.6 | 316.5 | 351.0 | 617.5             |
| 4           | 288      | 330         | 328      | 21      | 154000    | 24.0  | 116  | 702.8 | 322.4 | 346.5 | 625.5             |
| 5           | 290      | 330         | 350      | 20      | 154000    | 24.0  | 115  | 841.5 | 344.0 | 346.5 | 620.1             |
| 6           | 290      | 330         | 326      | 20      | 158000    | 24.0  | 115  | 730.3 | 320.4 | 355.5 | 604.4             |
| 7           | 292      | 330         | 330      | 20      | 156000    | 24.0  | 116  | 790.5 | 324.3 | 351.0 | 617.5             |
| 8           | 293      | 330         | 323      | 20      | 159000    | 24.0  | 116  | 772.7 | 317.5 | 357.8 | 605.8             |
| 9           | 295      | 330         | 307      | 20      | 160000    | 24.0  | 116  | 731.8 | 301.8 | 360.0 | 602.0             |
| 10          | 296      | 330         | 309      | 20      | 161000    | 24.0  | 116  | 714.0 | 294.9 | 362.3 | 598.3             |
| 11          | 295      | 330         | 310      | 20      | 159000    | 24.0  | 116  | 739.5 | 304.7 | 357.8 | 605.8             |
| 12          | 295      | 330         | 307      | 20      | 157000    | 24.0  | 116  | 731.8 | 301.8 | 353.3 | 613.3             |
| 13          | 294      | 330         | 284      | 20      | 157000    | 24.0  | 116  | 675.2 | 279.7 | 353.3 | 613.3             |
| 14          | 295      | 329         | 284      | 19      | 153000    | 24.0  | 117  | 680.8 | 281.1 | 355.5 | 614.9             |
| 15          | 297      | 329         | 286      | 19      | 161000    | 24.0  | 117  | 680.8 | 281.1 | 362.3 | 603.5             |
| 16          | 297      | 329         | 308      | 19      | 161000    | 24.0  | 116  | 736.9 | 302.7 | 362.3 | 598.3             |
| 17          | 300      | 329         | 301      | 19      | 164000    | 24.0  | 116  | 719.1 | 295.9 | 369.0 | 587.4             |
| 18          | 301      | 329         | 306      | 18      | 157000    | 24.0  | 116  | 734.4 | 300.7 | 353.3 | 613.3             |
| 19          | 298      | 329         | 313      | 18      | 158000    | 24.0  | 116  | 752.3 | 307.6 | 355.5 | 609.7             |
| 20          | 296      | 329         | 311      | 18      | 152000    | 24.0  | 116  | 747.2 | 305.7 | 355.5 | 609.7             |
| 21          | 298      | 329         | 315      | 18      | 160000    | 24.0  | 116  | 757.3 | 307.6 | 360.0 | 602.0             |
| 22          | 300      | 328         | 312      | 13      | 162000    | 24.0  | 116  | 762.4 | 306.5 | 364.5 | 594.6             |
| 23          | 302      | 327         | 299      | 14      | 162000    | 24.0  | 115  | 703.8 | 285.0 | 364.5 | 594.6             |
| 24          | 305      | 329         | 300      | 14      | 163000    | 24.0  | 116  | 729.3 | 294.8 | 366.8 | 591.0             |
| 25          | 307      | 327         | 315      | 32      | 164000    | 24.0  | 116  | 721.7 | 309.8 | 369.0 | 587.4             |
| 26          | 305      | 327         | 312      | 32      | 168000    | 24.0  | 116  | 714.0 | 306.7 | 378.0 | 573.4             |
| 27          | 305      | 327         | 336      | 33      | 168000    | 24.0  | 116  | 772.7 | 330.5 | 376.0 | 573.4             |
| 28          | 307      | 327         | 315      | 33      | 167000    | 24.0  | 116  | 719.1 | 309.9 | 375.8 | 576.9             |
| 29          | 305      | 327         | 327      | 33      | 167000    | 24.0  | 115  | 749.7 | 321.6 | 375.8 | 571.8             |
| 30          | 302      | 327         | 337      | 33      | 165000    | 24.0  | 115  | 775.2 | 331.5 | 371.3 | 578.8             |
| AVERAGE     | 297      | 329         | 313      | 22      | 160200    | 24    | 116  | 743   | 308   | 360   | 601               |
| TOTAL       |          |             |          |         | 115344000 | 720.0 |      |       |       |       |                   |



| WELL NUMBER 4<br>APRIL 87 | WELLHEAD<br>PSIG | TEMPERATURE<br>DEGREES F. | NITROGEN<br>PSIG | AMMUNUS<br>FSIG | FLOW<br>LBS/HR | HOURS | AMPS | NPSH<br>FEET | NPSH<br>PSIG | FLOW<br>GPM | POWER CONSUMPTION<br>KW/1,000,000LBS |
|---------------------------|------------------|---------------------------|------------------|-----------------|----------------|-------|------|--------------|--------------|-------------|--------------------------------------|
| 1                         | 341              | 348                       | 219              | 92              | 237000         | 24.0  | 303  | 323.8        | 216.7        | 533.3       | 1061.7                               |
| 2                         | 342              | 348                       | 219              | 94              | 236000         | 24.0  | 302  | 318.8        | 216.7        | 531.0       | 1062.6                               |
| 3                         | 342              | 348                       | 220              | 94              | 238000         | 24.0  | 303  | 321.3        | 217.7        | 535.5       | 1057.2                               |
| 4                         | 341              | 348                       | 220              | 94              | 234000         | 24.0  | 304  | 321.3        | 217.7        | 526.5       | 1078.8                               |
| 5                         | 342              | 348                       | 220              | 92              | 232000         | 24.0  | 304  | 326.4        | 217.7        | 522.0       | 1086.1                               |
| 6                         | 343              | 348                       | 220              | 92              | 233000         | 24.0  | 303  | 326.4        | 217.7        | 524.3       | 1079.9                               |
| 7                         | 343              | 348                       | 220              | 91              | 231000         | 24.0  | 303  | 329.0        | 217.6        | 519.8       | 1089.2                               |
| 8                         | 345              | 348                       | 220              | 90              | 231000         | 24.0  | 302  | 331.5        | 217.6        | 519.8       | 1085.6                               |
| 9                         | 345              | 348                       | 220              | 90              | 232000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 10                        | 343              | 348                       | 220              | 90              | 234000         | 24.0  | 302  | 331.5        | 217.6        | 526.5       | 1071.7                               |
| 11                        | 343              | 348                       | 220              | 90              | 233000         | 24.0  | 302  | 331.5        | 217.6        | 524.3       | 1076.3                               |
| 12                        | 342              | 348                       | 220              | 90              | 232000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 13                        | 342              | 348                       | 220              | 90              | 235000         | 24.0  | 302  | 331.5        | 217.6        | 528.8       | 1067.2                               |
| 14                        | 343              | 348                       | 220              | 90              | 237000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 15                        | 343              | 348                       | 220              | 90              | 237000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 16                        | 343              | 348                       | 220              | 90              | 237000         | 24.0  | 302  | 331.5        | 217.6        | 524.3       | 1076.3                               |
| 17                        | 343              | 348                       | 220              | 90              | 237000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 18                        | 342              | 348                       | 220              | 90              | 233000         | 24.0  | 302  | 331.5        | 217.6        | 524.3       | 1075.3                               |
| 19                        | 340              | 348                       | 220              | 90              | 235000         | 24.0  | 302  | 331.5        | 217.6        | 528.8       | 1067.2                               |
| 20                        | 340              | 348                       | 220              | 91              | 235000         | 24.0  | 302  | 329.0        | 217.6        | 528.8       | 1067.2                               |
| 21                        | 342              | 348                       | 220              | 90              | 239000         | 24.0  | 302  | 331.5        | 217.6        | 537.8       | 1049.3                               |
| 22                        | 342              | 348                       | 220              | 90              | 232000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 23                        | 342              | 348                       | 220              | 90              | 232000         | 24.0  | 302  | 331.5        | 217.6        | 522.0       | 1081.0                               |
| 24                        | 345              | 348                       | 220              | 90              | 230000         | 24.0  | 302  | 331.5        | 217.6        | 517.5       | 1090.4                               |
| 25                        | 341              | 348                       | 220              | 90              | 235000         | 24.0  | 302  | 331.5        | 217.6        | 528.8       | 1067.2                               |
| 26                        | 342              | 348                       | 220              | 90              | 235000         | 24.0  | 302  | 331.5        | 217.6        | 528.8       | 1067.2                               |
| 27                        | 342              | 348                       | 222              | 90              | 236000         | 24.0  | 302  | 336.6        | 219.6        | 531.0       | 1062.6                               |
| 28                        | 341              | 348                       | 222              | 88              | 235000         | 24.0  | 302  | 341.7        | 219.6        | 528.8       | 1067.2                               |
| 29                        | 340              | 348                       | 222              | 90              | 236000         | 24.0  | 302  | 336.6        | 219.6        | 531.0       | 1062.6                               |
| 30                        | 342              | 348                       | 222              | 90              | 234000         | 24.0  | 301  | 336.6        | 219.6        | 526.5       | 1068.2                               |
| AVERAGE                   | 342              | 348                       | 220              | 91              | 233800         | 24    | 302  | 330          | 218          | 526         | 1074                                 |
| TOTAL                     |                  |                           |                  |                 | 168336000      | 720.0 |      |              |              |             |                                      |

| WELL NUMBER 5<br>APRIL 87 | WELLHEAD<br>PSIG | TEMPERATURE<br>DEGREES F. | NITROGEN<br>PSIG | ANNULUS<br>PSIG | FLOW<br>LBS/HR | HOURS | AKPS | NPSH<br>FEET | NPSH<br>PSIG | FLOW<br>GPM | POWER CONSUMPTION<br>KW/1,000,000LBS |
|---------------------------|------------------|---------------------------|------------------|-----------------|----------------|-------|------|--------------|--------------|-------------|--------------------------------------|
| 1                         | 341              | 349                       | 272              | 102             | 280000         | 24.0  | 250  | 433.5        | 268.9        | 630.0       | 741.4                                |
| 2                         | 342              | 349                       | 272              | 102             | 281000         | 24.0  | 250  | 433.5        | 268.9        | 632.3       | 738.8                                |
| 3                         | 343              | 345                       | 275              | 102             | 291000         | 24.0  | 250  | 441.2        | 271.8        | 632.3       | 738.8                                |
| 4                         | 342              | 349                       | 275              | 102             | 281000         | 24.0  | 250  | 441.2        | 271.8        | 632.3       | 738.8                                |
| 5                         | 342              | 350                       | 273              | 101             | 281000         | 24.0  | 250  | 439.6        | 269.9        | 632.3       | 738.9                                |
| 6                         | 343              | 349                       | 272              | 101             | 281000         | 24.0  | 250  | 436.0        | 268.9        | 632.3       | 738.8                                |
| 7                         | 341              | 349                       | 273              | 101             | 283000         | 24.0  | 251  | 439.6        | 269.9        | 636.8       | 736.5                                |
| 8                         | 342              | 349                       | 275              | 101             | 282000         | 24.0  | 251  | 443.7        | 271.8        | 634.5       | 739.1                                |
| 9                         | 343              | 349                       | 272              | 101             | 282000         | 24.0  | 250  | 436.0        | 268.9        | 634.5       | 736.2                                |
| 10                        | 343              | 349                       | 272              | 101             | 281000         | 24.0  | 250  | 436.0        | 268.9        | 632.3       | 738.8                                |
| 11                        | 343              | 349                       | 272              | 101             | 281000         | 24.0  | 250  | 436.0        | 268.9        | 632.3       | 738.8                                |
| 12                        | 344              | 349                       | 272              | 101             | 280000         | 24.0  | 250  | 436.0        | 268.9        | 630.0       | 741.4                                |
| 13                        | 343              | 349                       | 272              | 101             | 281000         | 24.0  | 250  | 436.0        | 268.9        | 632.3       | 738.8                                |
| 14                        | 342              | 349                       | 272              | 103             | 280000         | 24.0  | 250  | 431.0        | 268.9        | 630.0       | 741.4                                |
| 15                        | 343              | 349                       | 273              | 102             | 279000         | 24.0  | 250  | 436.0        | 269.9        | 627.8       | 744.1                                |
| 16                        | 342              | 349                       | 273              | 102             | 280000         | 24.0  | 251  | 436.0        | 269.9        | 630.0       | 744.4                                |
| 17                        | 340              | 350                       | 273              | 105             | 280000         | 24.0  | 252  | 428.4        | 269.9        | 630.0       | 747.4                                |
| 18                        | 342              | 349                       | 272              | 102             | 281000         | 24.0  | 250  | 433.5        | 268.9        | 632.3       | 738.8                                |
| 19                        | 343              | 349                       | 272              | 102             | 281000         | 24.0  | 250  | 433.5        | 268.9        | 632.3       | 738.8                                |
| 20                        | 342              | 349                       | 272              | 102             | 282000         | 24.0  | 250  | 433.5        | 268.9        | 634.5       | 736.2                                |
| 21                        | 342              | 349                       | 272              | 102             | 280000         | 24.0  | 250  | 433.5        | 268.9        | 630.0       | 741.4                                |
| 22                        | 344              | 349                       | 272              | 102             | 280000         | 24.0  | 250  | 433.5        | 268.9        | 630.0       | 741.4                                |
| 23                        | 342              | 350                       | 271              | 101             | 282000         | 24.0  | 250  | 433.5        | 267.9        | 634.5       | 736.2                                |
| 24                        | 343              | 349                       | 272              | 102             | 282000         | 24.0  | 250  | 433.5        | 268.9        | 634.5       | 736.2                                |
| 25                        | 343              | 349                       | 272              | 102             | 280000         | 24.0  | 250  | 433.5        | 268.9        | 630.0       | 741.4                                |
| 26                        | 342              | 349                       | 272              | 102             | 285000         | 24.0  | 250  | 433.5        | 268.9        | 641.3       | 728.4                                |
| 27                        | 344              | 349                       | 272              | 102             | 278000         | 24.0  | 250  | 433.5        | 268.9        | 625.5       | 746.8                                |
| 28                        | 342              | 349                       | 272              | 102             | 280000         | 24.0  | 250  | 433.5        | 268.9        | 630.0       | 741.4                                |
| 29                        | 342              | 349                       | 272              | 102             | 283000         | 24.0  | 250  | 433.5        | 268.9        | 636.8       | 733.6                                |
| 30                        | 343              | 349                       | 272              | 102             | 282000         | 24.0  | 250  | 433.5        | 268.9        | 634.5       | 736.2                                |
| AVERAGE                   | 342              | 349                       | 272              | 102             | 281000         | 24    | 250  | 435          | 269          | 632         | 739                                  |
| TOTAL                     |                  |                           |                  |                 | 29232000       | 720.0 |      |              |              |             |                                      |

| BELL NUMBER &<br>APRIL 87 | WELLHEAD<br>PSIG | TEMPERATURE<br>DEGREES F. | NITROGEN<br>PSIG | ANNUOUS<br>PSIG | FLOW<br>LBS/HR | HOURS | AMPS | NPSH<br>FEET | MPSH<br>PSIG | FLOW<br>GPM | POWER CONSUMPTION<br>KW/1,000,000LBS |
|---------------------------|------------------|---------------------------|------------------|-----------------|----------------|-------|------|--------------|--------------|-------------|--------------------------------------|
| 1                         | 343              | 350                       | 239              | 98              | 204000         | 24.0  | 199  | 359.5        | 236.4        | 459.0       | 810.0                                |
| 2                         | 344              | 350                       | 239              | 98              | 201000         | 24.0  | 199  | 359.5        | 236.4        | 452.3       | 822.1                                |
| 3                         | 345              | 350                       | 239              | 98              | 204000         | 24.0  | 199  | 359.5        | 236.4        | 459.0       | 810.0                                |
| 4                         | 344              | 350                       | 240              | 97              | 207000         | 24.0  | 199  | 364.7        | 237.4        | 465.8       | 798.3                                |
| 5                         | 345              | 350                       | 240              | 97              | 203000         | 24.0  | 199  | 364.7        | 237.4        | 456.8       | 814.0                                |
| 6                         | 344              | 350                       | 240              | 98              | 203000         | 24.0  | 198  | 362.1        | 237.4        | 456.8       | 809.9                                |
| 7                         | 342              | 350                       | 240              | 98              | 205000         | 24.0  | 199  | 362.1        | 237.4        | 461.3       | 806.1                                |
| 8                         | 343              | 350                       | 240              | 98              | 204000         | 24.0  | 199  | 362.1        | 237.4        | 459.0       | 810.0                                |
| 9                         | 344              | 350                       | 240              | 99              | 203000         | 24.0  | 199  | 359.5        | 237.4        | 456.8       | 814.0                                |
| 10                        | 344              | 350                       | 240              | 99              | 202000         | 24.0  | 199  | 359.5        | 237.4        | 454.5       | 818.1                                |
| 11                        | 344              | 350                       | 240              | 100             | 200000         | 24.0  | 199  | 357.0        | 237.4        | 450.0       | 826.2                                |
| 12                        | 344              | 350                       | 240              | 99              | 201000         | 24.0  | 199  | 359.5        | 237.4        | 452.3       | 822.1                                |
| 13                        | 343              | 356                       | 240              | 99              | 203000         | 24.0  | 199  | 359.5        | 237.4        | 456.8       | 814.0                                |
| 14                        | 343              | 350                       | 240              | 98              | 202000         | 24.0  | 199  | 362.1        | 237.4        | 454.5       | 818.1                                |
| 15                        | 343              | 350                       | 240              | 99              | 203000         | 24.0  | 199  | 359.5        | 237.4        | 456.8       | 814.0                                |
| 16                        | 343              | 350                       | 240              | 99              | 203000         | 24.0  | 199  | 359.5        | 237.4        | 456.8       | 814.0                                |
| 17                        | 340              | 350                       | 239              | 98              | 205000         | 24.0  | 199  | 359.5        | 236.4        | 461.3       | 806.1                                |
| 18                        | 342              | 350                       | 240              | 98              | 203000         | 24.0  | 199  | 362.1        | 237.4        | 456.8       | 814.0                                |
| 19                        | 342              | 350                       | 240              | 98              | 203000         | 24.0  | 199  | 362.1        | 237.4        | 456.8       | 814.0                                |
| 20                        | 342              | 350                       | 239              | 98              | 202000         | 24.0  | 199  | 359.5        | 236.4        | 454.5       | 814.0                                |
| 21                        | 343              | 350                       | 238              | 98              | 202000         | 24.0  | 198  | 357.0        | 235.4        | 454.5       | 814.0                                |
| 22                        | 340              | 350                       | 240              | 98              | 200000         | 24.0  | 198  | 362.1        | 237.4        | 450.0       | 822.1                                |
| 23                        | 345              | 350                       | 240              | 98              | 200000         | 24.0  | 199  | 362.1        | 237.4        | 450.0       | 826.2                                |
| 24                        | 344              | 350                       | 240              | 98              | 200000         | 24.0  | 198  | 362.1        | 237.4        | 450.0       | 822.1                                |
| 25                        | 343              | 350                       | 240              | 98              | 201000         | 24.0  | 199  | 362.1        | 237.4        | 452.3       | 822.1                                |
| 26                        | 342              | 350                       | 240              | 98              | 198000         | 24.0  | 199  | 362.1        | 237.4        | 445.5       | 834.6                                |
| 27                        | 345              | 350                       | 240              | 98              | 199000         | 24.0  | 200  | 362.1        | 237.4        | 447.8       | 834.6                                |
| 28                        | 344              | 350                       | 240              | 98              | 201000         | 24.0  | 200  | 362.1        | 237.4        | 452.3       | 826.3                                |
| 29                        | 343              | 350                       | 239              | 98              | 201000         | 24.0  | 199  | 359.5        | 236.4        | 452.3       | 822.1                                |
| 30                        | 340              | 350                       | 239              | 98              | 204000         | 24.0  | 199  | 359.5        | 236.4        | 459.0       | 810.0                                |
| AVERAGE                   | 343              | 350                       | 240              | 98              | 202233         | 24    | 199  | 361          | 237          | 455         | 817                                  |
| TOTAL                     |                  |                           |                  |                 | 14560800       | 720.0 |      |              |              |             |                                      |

| WELL NUMBER 7<br>APRIL 87 | WELLHEAD<br>PSIG | TEMPERATURE<br>DEGREES F. | NITROGEN<br>PSIG | ANNULUS<br>PSIG | FLOW<br>LBS/HR | HOURS | AMPS | NPSH<br>FEET | NPSH<br>PSIG | FLOW<br>GPM | POWER CONSUMPTION<br>KW/1,000,000LBS |
|---------------------------|------------------|---------------------------|------------------|-----------------|----------------|-------|------|--------------|--------------|-------------|--------------------------------------|
| 1                         | 284              | 350                       | 338              | 92              | 160000         | 24.0  | 112  | 627.3        | 333.5        | 360.0       | 581.3                                |
| 2                         | 285              | 350                       | 340              | 92              | 160000         | 24.0  | 113  | 632.4        | 335.5        | 360.0       | 586.5                                |
| 3                         | 286              | 350                       | 345              | 92              | 160000         | 24.0  | 113  | 645.2        | 340.4        | 360.0       | 586.5                                |
| 4                         | 285              | 351                       | 338              | 92              | 160000         | 24.0  | 112  | 627.3        | 333.5        | 360.0       | 581.3                                |
| 5                         | 288              | 350                       | 336              | 92              | 160000         | 24.0  | 113  | 622.2        | 331.5        | 360.0       | 586.5                                |
| 6                         | 284              | 350                       | 341              | 92              | 160000         | 24.0  | 112  | 634.9        | 336.5        | 360.0       | 581.3                                |
| 7                         | 289              | 350                       | 336              | 92              | 160000         | 24.0  | 113  | 622.2        | 331.5        | 360.0       | 586.5                                |
| 8                         | 289              | 350                       | 345              | 91              | 160000         | 24.0  | 112  | 647.7        | 340.4        | 360.0       | 581.3                                |
| 9                         | 290              | 350                       | 343              | 91              | 160000         | 24.0  | 112  | 642.6        | 338.4        | 360.0       | 581.3                                |
| 10                        | 291              | 350                       | 346              | 91              | 160000         | 24.0  | 113  | 650.3        | 341.3        | 360.0       | 586.5                                |
| 11                        | 290              | 350                       | 346              | 91              | 160000         | 24.0  | 113  | 650.3        | 341.3        | 360.0       | 586.5                                |
| 12                        | 290              | 350                       | 346              | 90              | 160090         | 24.0  | 113  | 652.8        | 341.3        | 360.0       | 586.5                                |
| 13                        | 290              | 350                       | 348              | 90              | 160000         | 24.0  | 113  | 657.9        | 343.3        | 360.0       | 586.5                                |
| 14                        | 291              | 350                       | 345              | 92              | 160000         | 24.0  | 113  | 645.2        | 340.4        | 360.0       | 586.5                                |
| 15                        | 292              | 350                       | 352              | 91              | 160000         | 24.0  | 113  | 665.6        | 347.2        | 360.0       | 586.5                                |
| 16                        | 294              | 350                       | 350              | 91              | 159000         | 24.0  | 112  | 660.4        | 345.3        | 357.8       | 584.9                                |
| 17                        | 295              | 350                       | 350              | 91              | 158000         | 24.0  | 112  | 660.4        | 345.3        | 355.5       | 588.6                                |
| 18                        | 296              | 350                       | 345              | 92              | 160000         | 24.0  | 112  | 645.2        | 340.4        | 360.0       | 581.3                                |
| 19                        | 295              | 350                       | 345              | 92              | 160000         | 24.0  | 113  | 645.2        | 340.4        | 360.0       | 586.5                                |
| 20                        | 291              | 350                       | 345              | 92              | 160000         | 24.0  | 113  | 645.2        | 340.4        | 360.0       | 586.5                                |
| 21                        | 292              | 350                       | 345              | 92              | 160000         | 24.0  | 112  | 645.2        | 340.4        | 360.0       | 581.3                                |
| 22                        | 295              | 350                       | 348              | 91              | 160000         | 24.0  | 113  | 655.3        | 343.3        | 360.0       | 586.5                                |
| 23                        | 296              | 350                       | 348              | 91              | 160000         | 24.0  | 113  | 655.3        | 343.3        | 360.0       | 586.5                                |
| 24                        | 296              | 350                       | 350              | 91              | 160000         | 24.0  | 113  | 660.4        | 345.3        | 360.0       | 586.5                                |
| 25                        | 301              | 350                       | 351              | 91              | 160000         | 24.0  | 113  | 663.0        | 346.3        | 360.0       | 586.5                                |
| 26                        | 300              | 350                       | 350              | 91              | 159000         | 24.0  | 113  | 660.4        | 345.3        | 357.8       | 590.2                                |
| 27                        | 302              | 350                       | 355              | 92              | 160000         | 24.0  | 112  | 670.7        | 350.2        | 360.0       | 581.3                                |
| 28                        | 301              | 350                       | 356              | 92              | 159000         | 24.0  | 113  | 673.2        | 351.2        | 357.8       | 590.2                                |
| 29                        | 300              | 350                       | 351              | 92              | 159000         | 24.0  | 113  | 660.4        | 346.3        | 357.8       | 590.2                                |
| 30                        | 297              | 350                       | 352              | 92              | 159000         | 24.0  | 114  | 663.0        | 347.3        | 357.8       | 595.4                                |
| AVERAGE                   | 292              | 350                       | 346              | 91              | 159767         | 24    | 113  | 650          | 342          | 359         | 586                                  |
| TOTAL                     |                  |                           |                  |                 | 115032000      | 720.0 |      |              |              |             |                                      |

| WELL NUMBER B | WELLHEAD | TEMPERATURE | NITROGEN | ANNULUS | FLOW     | HOURS | AMPS | NPSH  | NPSH  | FLOW  | POWER CONSUMPTION |
|---------------|----------|-------------|----------|---------|----------|-------|------|-------|-------|-------|-------------------|
| APRIL 87      | PSIG     | DEGREES F.  | PSIG     | PSIG    | LBS/HR   |       |      | FEET  | PSIG  | GPM   | KW/1,000,000LBS   |
| 1             | 293      | 352         | 277      | 102     | 132000   | 24.0  | 114  | 446.2 | 273.8 | 310.5 | 686.0             |
| 2             | 295      | 352         | 282      | 103     | 137000   | 24.0  | 114  | 456.5 | 276.7 | 308.3 | 691.0             |
| 3             | 296      | 352         | 285      | 103     | 137000   | 24.0  | 114  | 464.1 | 281.7 | 308.3 | 691.0             |
| 4             | 295      | 352         | 281      | 103     | 137000   | 24.0  | 114  | 453.9 | 277.8 | 308.3 | 691.0             |
| 5             | 297      | 352         | 280      | 103     | 137000   | 24.0  | 114  | 451.3 | 276.8 | 308.3 | 691.0             |
| 6             | 298      | 352         | 280      | 103     | 137000   | 24.0  | 114  | 451.3 | 276.8 | 308.3 | 691.0             |
| 7             | 299      | 352         | 286      | 102     | 136000   | 24.0  | 114  | 469.2 | 282.6 | 306.0 | 696.1             |
| 8             | 300      | 352         | 285      | 101     | 135000   | 24.0  | 114  | 469.2 | 281.6 | 303.8 | 701.2             |
| 9             | 300      | 352         | 285      | 103     | 135000   | 24.0  | 114  | 464.1 | 281.7 | 303.8 | 701.2             |
| 10            | 302      | 352         | 285      | 104     | 135000   | 24.0  | 114  | 461.5 | 281.7 | 303.8 | 701.2             |
| 11            | 303      | 352         | 287      | 104     | 135000   | 24.0  | 114  | 466.7 | 283.7 | 303.8 | 701.2             |
| 12            | 300      | 352         | 288      | 104     | 135000   | 24.0  | 114  | 469.2 | 284.6 | 303.8 | 701.2             |
| 13            | 301      | 352         | 286      | 104     | 135000   | 24.0  | 114  | 464.1 | 282.7 | 303.8 | 701.2             |
| 14            | 301      | 352         | 286      | 102     | 135000   | 24.0  | 114  | 469.2 | 282.6 | 303.8 | 701.2             |
| 15            | 302      | 353         | 286      | 102     | 135000   | 24.0  | 114  | 469.2 | 282.6 | 303.8 | 701.2             |
| 16            | 304      | 352         | 285      | 102     | 134000   | 24.0  | 114  | 466.7 | 281.7 | 301.5 | 706.5             |
| 17            | 304      | 352         | 287      | 102     | 134000   | 24.0  | 114  | 471.7 | 283.6 | 301.5 | 706.5             |
| 18            | 305      | 352         | 285      | 103     | 133000   | 24.0  | 114  | 464.1 | 281.7 | 299.3 | 711.8             |
| 19            | 305      | 352         | 285      | 103     | 134000   | 24.0  | 114  | 464.1 | 281.7 | 301.5 | 706.5             |
| 20            | 304      | 353         | 285      | 101     | 135000   | 24.0  | 114  | 469.2 | 281.6 | 303.8 | 701.2             |
| 21            | 302      | 353         | 282      | 102     | 134000   | 24.0  | 114  | 459.0 | 278.7 | 301.5 | 706.5             |
| 22            | 305      | 353         | 285      | 101     | 134000   | 24.0  | 115  | 469.2 | 281.6 | 301.5 | 712.7             |
| 23            | 305      | 353         | 285      | 101     | 133000   | 24.0  | 115  | 469.2 | 281.6 | 299.3 | 718.0             |
| 24            | 307      | 353         | 285      | 101     | 133000   | 24.0  | 114  | 469.2 | 281.6 | 299.3 | 711.8             |
| 25            | 311      | 353         | 290      | 101     | 131000   | 24.0  | 115  | 482.0 | 286.6 | 294.8 | 729.0             |
| 26            | 312      | 353         | 290      | 101     | 131000   | 24.0  | 115  | 482.0 | 286.6 | 294.8 | 729.0             |
| 27            | 310      | 353         | 290      | 101     | 131000   | 24.0  | 115  | 482.0 | 286.6 | 294.8 | 729.0             |
| 28            | 312      | 353         | 290      | 100     | 137000   | 24.0  | 114  | 484.5 | 286.5 | 297.0 | 717.2             |
| 29            | 311      | 353         | 291      | 100     | 132000   | 24.0  | 115  | 487.0 | 287.5 | 297.0 | 723.3             |
| 30            | 308      | 353         | 291      | 100     | 132000   | 24.0  | 114  | 487.0 | 287.5 | 297.0 | 717.2             |
| AVERAGE       | 303      | 352         | 286      | 102     | 134400   | 24    | 114  | 468   | 282   | 302   | 706               |
| TOTAL         |          |             |          |         | 96766000 | 720.0 |      |       |       |       |                   |

| WELL NUMBER 9<br>APRIL 07 | WELLHEAD<br>PSIG | TEMPERATURE<br>DEGREES F. | NITROGEN<br>PSIG | ANNULUS<br>PSIG | FLOW<br>LBS/HR | HOURS | AMPS | NPSH<br>FEET | NPSH<br>PSIG | FLOW<br>GPM | POWER CONSUMPTION<br>KW/1,000,000LBS |
|---------------------------|------------------|---------------------------|------------------|-----------------|----------------|-------|------|--------------|--------------|-------------|--------------------------------------|
| 1                         | 278              | 348                       | 329              | 93              | 112000         | 24.0  | 116  | 601.8        | 324.7        | 252.0       | 860.1                                |
| 2                         | 278              | 348                       | 350              | 93              | 111000         | 24.0  | 117  | 655.3        | 345.3        | 249.8       | 875.3                                |
| 3                         | 278              | 348                       | 337              | 92              | 112000         | 24.0  | 117  | 624.8        | 332.5        | 252.0       | 867.5                                |
| 4                         | 280              | 348                       | 301              | 90              | 112000         | 24.0  | 117  | 538.1        | 297.1        | 252.0       | 867.5                                |
| 5                         | 280              | 348                       | 300              | 90              | 111000         | 24.0  | 116  | 535.5        | 296.2        | 249.8       | 867.8                                |
| 6                         | 281              | 348                       | 345              | 90              | 111000         | 24.0  | 117  | 650.3        | 340.3        | 249.8       | 875.3                                |
| 7                         | 283              | 348                       | 337              | 92              | 110000         | 24.0  | 116  | 624.8        | 332.5        | 247.5       | 875.7                                |
| 8                         | 281              | 348                       | 299              | 94              | 110000         | 24.0  | 117  | 522.8        | 295.3        | 247.5       | 883.2                                |
| 9                         | 283              | 348                       | 319              | 91              | 109000         | 24.0  | 116  | 581.4        | 314.8        | 245.3       | 883.7                                |
| 10                        | 285              | 348                       | 308              | 92              | 109000         | 24.0  | 116  | 550.8        | 304.1        | 245.3       | 883.7                                |
| 11                        | 284              | 348                       | 320              | 95              | 109000         | 24.0  | 117  | 573.8        | 315.9        | 245.3       | 891.3                                |
| 12                        | 281              | 348                       | 300              | 91              | 109000         | 24.0  | 117  | 532.9        | 296.2        | 245.3       | 891.3                                |
| 13                        | 283              | 348                       | 317              | 92              | 109000         | 24.0  | 118  | 573.8        | 312.9        | 245.3       | 899.0                                |
| 14                        | 284              | 348                       | 351              | 93              | 111000         | 24.0  | 117  | 657.9        | 346.3        | 249.8       | 875.3                                |
| 15                        | 285              | 348                       | 344              | 94              | 109000         | 24.0  | 117  | 647.6        | 341.4        | 245.3       | 891.3                                |
| 16                        | 288              | 348                       | 334              | 92              | 109000         | 24.0  | 118  | 617.1        | 329.6        | 245.3       | 899.0                                |
| 17                        | 290              | 348                       | 301              | 92              | 107000         | 24.0  | 118  | 532.9        | 297.2        | 240.8       | 915.8                                |
| 18                        | 290              | 348                       | 338              | 94              | 107000         | 24.0  | 117  | 622.2        | 333.5        | 240.8       | 908.0                                |
| 19                        | 287              | 348                       | 334              | 94              | 108000         | 24.0  | 118  | 612.0        | 329.6        | 243.0       | 907.3                                |
| 20                        | 285              | 348                       | 330              | 92              | 108000         | 24.0  | 118  | 606.9        | 325.7        | 243.0       | 907.3                                |
| 21                        | 285              | 348                       | 332              | 94              | 108000         | 24.0  | 118  | 606.9        | 327.7        | 243.0       | 907.3                                |
| 22                        | 288              | 348                       | 328              | 93              | 107000         | 24.0  | 118  | 599.3        | 323.7        | 240.8       | 915.8                                |
| 23                        | 290              | 348                       | 305              | 90              | 107000         | 24.0  | 118  | 548.3        | 301.1        | 240.8       | 915.8                                |
| 24                        | 288              | 348                       | 335              | 93              | 106000         | 24.0  | 118  | 617.1        | 330.6        | 238.5       | 924.4                                |
| 25                        | 295              | 348                       | 333              | 95              | 114000         | 24.0  | 118  | 606.9        | 328.7        | 256.5       | 859.5                                |
| 26                        | 296              | 348                       | 335              | 95              | 115000         | 24.0  | 118  | 612.0        | 330.6        | 258.8       | 852.1                                |
| 27                        | 294              | 348                       | 345              | 96              | 105000         | 24.0  | 118  | 634.9        | 340.5        | 236.3       | 933.2                                |
| 28                        | 295              | 348                       | 344              | 96              | 105000         | 24.0  | 118  | 632.4        | 339.5        | 236.3       | 933.2                                |
| 29                        | 293              | 348                       | 324              | 95              | 105000         | 24.0  | 119  | 583.9        | 319.8        | 236.3       | 941.1                                |
| 30                        | 290              | 348                       | 346              | 95              | 106000         | 24.0  | 118  | 640.1        | 341.4        | 238.5       | 924.4                                |
| AVERAGE                   | 286              | 348                       | 327              | 93              | 109033         | 24    | 117  | 598          | 323          | 245         | 874                                  |
| TOTAL                     |                  |                           |                  |                 | 78504000       | 720.0 |      |              |              |             |                                      |

| WELL NUMBER 101 | WELLHEAD | TEMPERATURE | NITROGEN | ANNULUS | FLOW     | HOURS | AMPS | NPSH  | NPSH  | FLOW  | POWER CONSUMPTION |
|-----------------|----------|-------------|----------|---------|----------|-------|------|-------|-------|-------|-------------------|
| APRIL B7        | PSIG     | DEGREES F.  | PSIG     | PSIG    | LBS/HR   |       |      | FEET  | PSIG  | GPM   | KW/1,000,000LBS   |
| 1               | 285      | 348         | 281      | 61      | 150000   | 24.0  | 119  | 561.0 | 277.0 | 337.5 | 658.8             |
| 2               | 284      | 348         | 280      | 60      | 150000   | 24.0  | 119  | 561.0 | 276.0 | 337.5 | 658.8             |
| 3               | 286      | 348         | 281      | 55      | 150000   | 24.0  | 118  | 576.3 | 276.9 | 337.5 | 653.2             |
| 4               | 285      | 348         | 280      | 50      | 150000   | 24.0  | 118  | 586.5 | 275.8 | 337.5 | 653.2             |
| 5               | 286      | 348         | 280      | 53      | 150000   | 24.0  | 118  | 578.8 | 275.9 | 337.5 | 653.2             |
| 6               | 287      | 348         | 279      | 51      | 149000   | 24.0  | 118  | 581.4 | 274.8 | 335.3 | 657.6             |
| 7               | 289      | 348         | 280      | 51      | 148000   | 24.0  | 118  | 583.9 | 275.8 | 333.0 | 662.1             |
| 8               | 289      | 348         | 280      | 45      | 146000   | 24.0  | 119  | 559.3 | 275.7 | 333.0 | 667.7             |
| 9               | 290      | 348         | 279      | 47      | 148000   | 24.0  | 120  | 551.6 | 274.8 | 333.0 | 673.3             |
| 10              | 292      | 348         | 282      | 43      | 148000   | 24.0  | 120  | 609.4 | 277.6 | 333.0 | 673.3             |
| 11              | 291      | 348         | 280      | 39      | 148000   | 24.0  | 119  | 614.6 | 275.6 | 333.0 | 667.7             |
| 12              | 290      | 348         | 280      | 40      | 148000   | 24.0  | 119  | 612.0 | 275.6 | 333.0 | 667.7             |
| 13              | 290      | 348         | 280      | 37      | 148000   | 24.0  | 119  | 619.7 | 275.6 | 333.0 | 667.7             |
| 14              | 293      | 348         | 281      | 34      | 148000   | 24.0  | 119  | 629.8 | 276.5 | 333.0 | 667.7             |
| 15              | 293      | 348         | 281      | 33      | 148000   | 24.0  | 119  | 632.4 | 276.5 | 333.0 | 667.7             |
| 16              | 296      | 348         | 280      | 32      | 147000   | 24.0  | 119  | 632.4 | 275.5 | 330.8 | 672.2             |
| 17              | 297      | 348         | 280      | 32      | 146000   | 24.0  | 119  | 632.4 | 275.5 | 328.5 | 676.8             |
| 18              | 296      | 348         | 281      | 30      | 146000   | 24.0  | 119  | 640.1 | 276.4 | 328.5 | 676.8             |
| 19              | 294      | 348         | 280      | 32      | 146000   | 24.0  | 119  | 632.4 | 275.5 | 328.5 | 676.8             |
| 20              | 292      | 348         | 280      | 30      | 147000   | 24.0  | 118  | 637.5 | 275.4 | 330.8 | 666.6             |
| 21              | 293      | 348         | 280      | 30      | 148000   | 24.0  | 118  | 637.5 | 275.4 | 333.0 | 662.1             |
| 22              | 295      | 348         | 280      | 30      | 146000   | 24.0  | 119  | 637.5 | 275.4 | 328.5 | 676.8             |
| 23              | 295      | 348         | 280      | 30      | 146000   | 24.0  | 119  | 637.5 | 275.4 | 328.5 | 676.8             |
| 24              | 296      | 348         | 283      | 30      | 146000   | 24.0  | 119  | 645.2 | 278.4 | 328.5 | 676.8             |
| 25              | 303      | 348         | 285      | 30      | 144000   | 24.0  | 119  | 650.3 | 280.3 | 324.0 | 686.2             |
| 26              | 304      | 348         | 285      | 30      | 144000   | 24.0  | 119  | 650.3 | 280.3 | 324.0 | 686.2             |
| 27              | 302      | 348         | 285      | 30      | 144000   | 24.0  | 120  | 650.3 | 280.3 | 324.0 | 692.0             |
| 28              | 303      | 348         | 285      | 30      | 144000   | 24.0  | 119  | 650.3 | 280.3 | 324.0 | 686.2             |
| 29              | 301      | 348         | 285      | 29      | 144000   | 24.0  | 119  | 652.8 | 280.3 | 324.0 | 686.2             |
| 30              | 298      | 348         | 285      | 29      | 146000   | 24.0  | 119  | 652.8 | 280.3 | 328.5 | 676.8             |
| AVERAGE         | 293      | 348         | 281      | 38      | 147167   | 24    | 119  | 619   | 277   | 331   | 671               |
| TOTAL           |          |             |          |         | 10596000 | 720.0 |      |       |       |       |                   |