

PALM VALLEY NO. 3

WELL TEST REPORT

L.N. FRANKS,  
MAGELLAN PETROLEUM (N.T.) LIMITED

APRIL 1989.

DEPT. OF MINES & ENERGY  
DO NOT REMOVE



P01012



PR 73/015 E

INDEX

OPERATIONS REPORT

CALIBRATION REPORT

PRESSURE DATA

FLOW DATA

OPERATIONS REPORT

27.4.89. Dead Weight Test Gauges.  
Start Rig-up for flowing test.

28.4.89. Complete Rig-up.  
Well flowing @ 6,000 MH<sup>3</sup>

1005 Start test.

1020 Pressure up lubricator.  
Monitor pressure @ surface

1040 R.I.H.

1052 @ 1,000'

1102 R.I.H.

1108 @ 2,000'

1118 R.I.H.

1123 @ 3,000'

1133 R.I.H.

1138 @ 4,000'

1148 R.I.H.

1153 @ 5,000'

1203 R.I.H.

1205 @ 5,250'

1213 R.I.H.

1215 @ 5,500'

1223 R.I.H.

1224 @ 5,750'

1234 R.I.H.

1236 @ 6,000'

1245 R.I.H.

1246 @ 6,155' datum.

Monitor flowing well.  
Flow rate = 6,000MH<sup>3</sup>

29.4.89. Continue to monitor flowing well.  
Flow rate = 6,000 MH<sup>3</sup>

30.4.89. Continue to monitor flowing well.  
Flow rate = 6,000 MH<sup>3</sup>

1245 End of flow test, start flowing gradient.

1245 P.O.O.H.

1251 @ 6,000'

1300 P.O.O.H.

1304 @ 5,750'

1312 P.O.O.H.

1316 @ 5,500'

1325 P.O.O.H.

1328 @ 5,250'

1337 P.O.O.H.

1342 @ 5,000'

1350 P.O.O.H.

1404 @ 4,000'

1414 P.O.O.H.

1430 @ 3,000'

1440 P.O.O.H.

1454 @ 2,000'

1503 P.O.O.H.

1514 @ 1,000'

1523 P.O.O.H.

1538 @ 0' surface  
Monitor well @ surface.

1555 Shut swab valve.  
Bleed down lubricator.

1603 Allow gauges to stabilise @ 0 pressure.

1618 END OF TEST.

CALIBRATION REPORT27.4.89.Barometric P. = 914.8K.P.A.EDL-119SPP-019

|       | <u>Run 1</u> | <u>Run 2</u> | <u>Run 1</u> | <u>Run 2</u> |
|-------|--------------|--------------|--------------|--------------|
| 0     | 125          | 121          | 87           | 90           |
| 0000  | 1123         | 1112         | 1090         | 1082         |
| 2000  | 2118         | 2107         | 2086         | 2079         |
| 3000  | 3112         | 3101         | 3083         | 3084         |
| 4000  | 4107         | 4105         | 4080         | 4081         |
| 5000  | 5102         | 5100         | 5085         | 5077         |
| 6000  | 6106         | 6095         | 6082         | 6074         |
| 7000  | 7091         | 7090         | 7079         | 7071         |
| 8000  | 8089         | 8088         | 8077         | 8069         |
| 9000  | 9087         | 9086         | 9067         | 9068         |
| 10000 | 10085        | 10084        | 10075        | 10067        |
| 11000 | 11083        | 11082        | 11065        | 11065        |
| 12000 | 12081        | 12080        | 12072        | 12064        |
| 13000 | 13079        | 13078        | 13062        | 13062        |
| 14000 | 14077        | 14067        | 14052        | 14053        |
| 15000 | 15075        | 15065        | 15053        | 15054        |
| 16000 | 16073        | 16063        | 16046        | 16055        |
| 17000 | 17061        | 17052        | 17047        | 17047        |
| 18000 | 18052        | 18052        | 18050        | 18041        |
| 19000 | 19054        | 19053        | 19045        | 19045        |
| 20000 | 20046        | 20046        | 20040        | 20040        |

5.5.89Barometric P. = 916.5

| 0     | 125   | 131   | 80    | 91    |
|-------|-------|-------|-------|-------|
| 1000  | 1124  | 1122  | 1082  | 1093  |
| 2000  | 2118  | 2126  | 2079  | 2080  |
| 3000  | 3113  | 3111  | 3075  | 3086  |
| 4000  | 4117  | 4115  | 4072  | 4082  |
| 5000  | 5112  | 5110  | 5078  | 5079  |
| 6000  | 6106  | 6114  | 6074  | 6076  |
| 7000  | 7110  | 7109  | 7071  | 7072  |
| 8000  | 8108  | 8107  | 8070  | 8071  |
| 9000  | 9106  | 9105  | 9069  | 9070  |
| 10000 | 10104 | 10103 | 10067 | 10068 |
| 11000 | 11102 | 11101 | 11057 | 11058 |
| 12000 | 12109 | 12099 | 12056 | 12057 |
| 13000 | 13098 | 13097 | 13055 | 13055 |
| 14000 | 14096 | 14095 | 14045 | 14054 |
| 15000 | 15093 | 15092 | 15046 | 15047 |
| 16000 | 16090 | 16090 | 16047 | 16048 |
| 17000 | 17088 | 17087 | 17040 | 17040 |
| 18000 | 18088 | 18078 | 18043 | 18034 |
| 19000 | 19090 | 19080 | 19038 | 19038 |
| 20000 | 20082 | 20082 | 20033 | 20033 |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 28 Apr 89 | 10: 5: 5 | METRIC             | 161.0               | 14.1        | 110.0               | 15.8       |
|           | 10: 6: 0 | 1 min              | 161.0               | 14.1        | 110.0               | 15.9       |
|           | 10: 7: 0 |                    | 161.0               | 14.2        | 110.0               | 16.0       |
|           | 10: 8: 0 |                    | 133.0               | 14.2        | 84.0                | 16.0       |
|           | 10: 9: 0 |                    | 133.0               | 14.3        | 84.0                | 16.1       |
|           | 10:10: 2 |                    | 133.0               | 14.3        | 84.0                | 16.2       |
|           | 10:11: 2 |                    | 133.0               | 14.3        | 84.0                | 16.2       |
|           | 10:12: 2 |                    | 133.0               | 14.4        | 84.0                | 16.3       |
|           | 10:13: 2 |                    | 133.0               | 14.4        | 84.0                | 16.4       |
|           | 10:14: 1 |                    | 133.0               | 14.5        | 84.0                | 16.4       |
|           | 10:15: 1 |                    | 132.0               | 14.5        | 85.0                | 16.4       |
|           | 10:16: 1 |                    | 132.0               | 14.5        | 85.0                | 16.5       |
|           | 10:17: 1 |                    | 132.0               | 14.6        | 85.0                | 16.5       |
|           | 10:18: 2 |                    | 132.0               | 14.6        | 85.0                | 16.6       |
|           | 10:19: 2 |                    | 132.0               | 14.7        | 85.0                | 16.6       |
|           | 10:20: 2 |                    | 132.0               | 14.7        | 85.0                | 16.7       |
|           | 10:20:22 |                    | 132.0               | 14.7        | 85.0                | 16.7       |
|           | 10:23:49 |                    | 10066.0             | 19.7        | 10053.0             | 16.9       |
|           | 10:24: 1 |                    | 10057.0             | 19.8        | 10053.0             | 16.9       |
|           | 10:25: 1 |                    | 10030.0             | 19.6        | 10053.0             | 17.0       |
|           | 10:26: 1 |                    | 10031.0             | 19.4        | 10053.0             | 17.1       |
|           | 10:27: 1 |                    | 10041.0             | 19.1        | 10053.0             | 17.1       |
|           | 10:28: 2 |                    | 10042.0             | 18.8        | 10044.0             | 17.1       |
|           | 10:29: 2 |                    | 10052.0             | 18.6        | 10044.0             | 17.2       |
|           | 10:30: 2 |                    | 10071.0             | 18.4        | 10053.0             | 17.2       |
|           | 10:31: 2 |                    | 10071.0             | 18.2        | 10053.0             | 17.3       |
|           | 10:32: 1 |                    | 10072.0             | 18.1        | 10053.0             | 17.3       |
|           | 10:33: 1 |                    | 10072.0             | 18.0        | 10053.0             | 17.3       |
|           | 10:34: 1 |                    | 10082.0             | 17.8        | 10053.0             | 17.4       |
|           | 10:35: 1 |                    | 10073.0             | 17.7        | 10045.0             | 17.4       |
|           | 10:36: 2 |                    | 10083.0             | 17.6        | 10045.0             | 17.5       |
|           | 10:37: 2 |                    | 10083.0             | 17.5        | 10053.0             | 17.5       |
|           | 10:38: 2 |                    | 10083.0             | 17.5        | 10045.0             | 17.6       |
|           | 10:39: 2 |                    | 10084.0             | 17.4        | 10054.0             | 17.6       |
|           | 10:40: 2 |                    | 10084.0             | 17.3        | 10054.0             | 17.7       |
|           | 10:40:26 |                    | 10084.0             | 17.3        | 10054.0             | 17.7       |
|           | 10:52:17 |                    | 10329.0             | 32.2        | 10028.0             | 18.2       |
|           | 10:53: 2 |                    | 10338.0             | 32.4        | 10037.0             | 18.3       |
|           | 10:54: 2 |                    | 10337.0             | 32.5        | 10028.0             | 18.3       |
|           | 10:55: 2 |                    | 10346.0             | 32.5        | 10028.0             | 18.4       |
|           | 10:56: 2 |                    | 10346.0             | 32.5        | 10028.0             | 18.5       |
|           | 10:57: 2 |                    | 10346.0             | 63.0        | 10028.0             | 18.5       |
|           | 10:58: 2 |                    | 10355.0             | 32.6        | 10020.0             | 18.6       |
|           | 10:59: 2 |                    | 10355.0             | 32.6        | 10020.0             | 18.7       |
|           | 11: 0: 2 |                    | 10364.0             | 32.6        | 10020.0             | 18.8       |
|           | 11: 1: 0 |                    | 10364.0             | 32.6        | 10020.0             | 18.8       |
|           | 11: 2: 0 |                    | 10364.0             | 32.6        | 10011.0             | 18.9       |
|           | 11: 2:32 |                    | 10364.0             | 32.6        | 10020.0             | 19.0       |
|           | 11: 9: 0 |                    | 10819.0             | 38.6        | 10021.0             | 19.4       |
|           | 11:10: 2 |                    | 10819.0             | 38.6        | 10021.0             | 19.4       |
|           | 11:11: 2 |                    | 10871.0             | 39.0        | 10021.0             | 19.5       |
|           | 11:12: 2 |                    | 10862.0             | 39.2        | 10012.0             | 19.5       |
|           | 11:13: 2 |                    | 10862.0             | 39.1        | 10012.0             | 19.5       |
|           | 11:14: 1 |                    | 10862.0             | 39.1        | 10012.0             | 19.6       |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 28 Apr 89 | 11:15:   | 1 METRIC           | 10889.0             | 39.2        | 10012.0             | 19.6       |
|           | 11:16:   | 1 min              | 10889.0             | 39.2        | 10004.0             | 19.7       |
|           | 11:17:   |                    | 10889.0             | 39.1        | 10004.0             | 19.7       |
|           | 11:18:   |                    | 10889.0             | 39.1        | 10004.0             | 19.8       |
|           | 11:18:30 |                    | 10889.0             | 39.1        | 10004.0             | 19.8       |
|           | 11:23:   |                    | 11245.0             | 46.5        | 10004.0             | 20.1       |
|           | 11:24:   |                    | 11234.0             | 46.9        | 10004.0             | 20.2       |
|           | 11:25:   |                    | 11233.0             | 47.0        | 10004.0             | 20.3       |
|           | 11:26:   |                    | 11233.0             | 47.0        | 10005.0             | 20.3       |
|           | 11:27:   |                    | 11242.0             | 47.1        | 10005.0             | 20.4       |
|           | 11:28:   |                    | 11251.0             | 47.1        | 10005.0             | 20.5       |
|           | 11:29:   |                    | 11260.0             | 47.1        | 10005.0             | 20.6       |
|           | 11:30:   |                    | 11278.0             | 47.2        | 10014.0             | 20.7       |
|           | 11:31:   |                    | 11296.0             | 47.2        | 10014.0             | 20.8       |
|           | 11:32:   |                    | 11305.0             | 47.2        | 10014.0             | 21.0       |
|           | 11:33:   |                    | 11306.0             | 47.2        | 10014.0             | 21.0       |
|           | 11:33:20 |                    | 11324.0             | 47.2        | 10006.0             | 21.1       |
|           | 11:38:   |                    | 11703.0             | 53.4        | 10006.0             | 21.5       |
|           | 11:39:   |                    | 11694.0             | 53.8        | 10007.0             | 21.5       |
|           | 11:40:   |                    | 11703.0             | 53.9        | 10007.0             | 21.6       |
|           | 11:41:   |                    | 11712.0             | 54.0        | 10007.0             | 21.7       |
|           | 11:42:   |                    | 11721.0             | 54.0        | 10007.0             | 21.8       |
|           | 11:43:   |                    | 11721.0             | 54.0        | 10016.0             | 21.9       |
|           | 11:44:   |                    | 11757.0             | 54.1        | 10016.0             | 21.9       |
|           | 11:45:   |                    | 11757.0             | 54.1        | 10016.0             | 22.0       |
|           | 11:46:   |                    | 11757.0             | 54.1        | 10016.0             | 22.0       |
|           | 11:47:   |                    | 11766.0             | 54.1        | 10016.0             | 22.1       |
|           | 11:48:   |                    | 11766.0             | 54.1        | 10016.0             | 22.2       |
|           | 11:48:25 |                    | 11776.0             | 54.1        | 10016.0             | 22.2       |
|           | 11:52:45 |                    | 12208.0             | 59.1        | 10017.0             | 22.5       |
|           | 11:53:   |                    | 12199.0             | 59.2        | 10017.0             | 22.5       |
|           | 11:53:38 |                    | 12198.0             | 59.4        | 10017.0             | 22.6       |
|           | 11:55:38 |                    | 12216.0             | 59.5        | 10009.0             | 22.7       |
|           | 11:56:   |                    | 12216.0             | 59.5        | 10009.0             | 22.8       |
|           | 11:57:   |                    | 12226.0             | 59.6        | 10009.0             | 22.8       |
|           | 11:58:   |                    | 12226.0             | 59.6        | 10000.0             | 22.9       |
|           | 11:59:   |                    | 12226.0             | 59.6        | 10000.0             | 22.9       |
|           | 12: 0:   |                    | 12226.0             | 59.6        | 10000.0             | 22.9       |
|           | 12: 1:   |                    | 12235.0             | 59.6        | 10000.0             | 22.9       |
|           | 12: 2:   |                    | 12244.0             | 59.6        | 10000.0             | 22.9       |
|           | 12: 3:   |                    | 12244.0             | 59.6        | 10000.0             | 22.9       |
|           | 12: 3:19 |                    | 12244.0             | 59.6        | 9992.0              | 22.9       |
|           | 12: 5:28 |                    | 12371.0             | 60.5        | 10000.0             | 22.9       |
|           | 12: 6:   |                    | 12370.0             | 60.6        | 10000.0             | 22.9       |
|           | 12: 7:   |                    | 12370.0             | 60.6        | 10000.0             | 22.9       |
|           | 12: 8:   |                    | 12379.0             | 60.7        | 10000.0             | 22.9       |
|           | 12: 9:   |                    | 12389.0             | 60.7        | 10000.0             | 22.9       |
|           | 12:10:   |                    | 12389.0             | 60.7        | 10000.0             | 22.9       |
|           | 12:11:   |                    | 12389.0             | 60.7        | 10000.0             | 22.9       |
|           | 12:12:   |                    | 12389.0             | 60.7        | 10000.0             | 22.9       |
|           | 12:12:37 |                    | 12398.0             | 60.7        | 10000.0             | 22.9       |
|           | 12:14:34 |                    | 12506.0             | 61.5        | 9991.0              | 22.8       |
|           | 12:15:   |                    | 12506.0             | 61.6        | 10000.0             | 22.8       |
|           | 12:16:   |                    | 12506.0             | 61.6        | 9991.0              | 22.8       |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 28 Apr 89 | 12:17:   | 1 METRIC           | 12506.0             | 61.7        | 9991.0              | 22.8       |
|           | 12:18:   | 1 1 min            | 12515.0             | 61.7        | 9991.0              | 22.8       |
|           | 12:19:   | 0                  | 12515.0             | 61.7        | 9991.0              | 22.8       |
|           | 12:20:   | 0                  | 12524.0             | 61.7        | 10000.0             | 22.9       |
|           | 12:21:   | 0                  | 12524.0             | 61.7        | 9992.0              | 22.9       |
|           | 12:22:   | 0                  | 12524.0             | 61.7        | 9992.0              | 22.9       |
|           | 12:22:26 |                    | 12524.0             | 61.7        | 9992.0              | 22.9       |
|           | 12:24:20 |                    | 12651.0             | 62.4        | 9992.0              | 22.9       |
|           | 12:25:   | 0                  | 12642.0             | 62.5        | 10000.0             | 22.9       |
|           | 12:26:   | 0                  | 12642.0             | 62.6        | 10000.0             | 23.0       |
|           | 12:27:   | 0                  | 12642.0             | 62.6        | 10000.0             | 23.0       |
|           | 12:28:   | 0                  | 12642.0             | 62.6        | 9992.0              | 23.0       |
|           | 12:29:   | 0                  | 12633.0             | 62.6        | 9992.0              | 23.0       |
|           | 12:30:   | 0                  | 12633.0             | 62.6        | 9992.0              | 23.0       |
|           | 12:31:   | 0                  | 12623.0             | 62.6        | 9992.0              | 23.1       |
|           | 12:32:   | 0                  | 12614.0             | 62.6        | 9983.0              | 23.1       |
|           | 12:33:   | 0                  | 12614.0             | 62.6        | 10001.0             | 23.2       |
|           | 12:33:25 |                    | 12605.0             | 62.6        | 10001.0             | 23.2       |
|           | 12:36:29 |                    | 12668.0             | 63.1        | 10001.0             | 23.5       |
|           | 12:37:   | 2                  | 12659.0             | 63.2        | 9984.0              | 23.5       |
|           | 12:38:   | 2                  | 12650.0             | 63.2        | 10001.0             | 23.6       |
|           | 12:39:   | 2                  | 12641.0             | 63.3        | 9993.0              | 23.6       |
|           | 12:40:   | 2                  | 12641.0             | 63.3        | 9993.0              | 23.6       |
|           | 12:41:   | 0                  | 12641.0             | 63.3        | 9984.0              | 23.6       |
|           | 12:42:   | 0                  | 12641.0             | 63.3        | 9984.0              | 23.6       |
|           | 12:43:   | 0                  | 12623.0             | 63.3        | 9993.0              | 23.6       |
|           | 12:44:   | 0                  | 12623.0             | 63.3        | 9993.0              | 23.6       |
|           | 12:45:   | 2                  | 12623.0             | 63.3        | 10010.0             | 23.5       |
|           | 12:45:26 |                    | 12623.0             | 63.3        | 10010.0             | 23.5       |
|           | 12:47:   | 2                  | 12686.0             | 63.6        | 10036.0             | 23.5       |
|           | 12:48:   | 0                  | 12686.0             | 63.6        | 10036.0             | 23.4       |
|           | 12:49:   | 0                  | 12686.0             | 63.6        | 10036.0             | 23.3       |
|           | 12:50:   | 0                  | 12677.0             | 63.6        | 10036.0             | 23.3       |
|           | 12:51:   | 0                  | 12677.0             | 63.6        | 10036.0             | 23.2       |
|           | 12:52:   | 2                  | 12677.0             | 63.6        | 10035.0             | 23.1       |
|           | 12:53:   | 2                  | 12677.0             | 63.7        | 10044.0             | 23.1       |
|           | 12:54:   | 2                  | 12677.0             | 63.7        | 10035.0             | 23.0       |
|           | 12:55:   | 2                  | 12668.0             | 63.7        | 10044.0             | 23.0       |
|           | 12:56:   | 2                  | 12659.0             | 63.6        | 10044.0             | 22.9       |
|           | 12:57:   | 2                  | 12659.0             | 63.6        | 10052.0             | 22.9       |
|           | 12:58:   | 2                  | 12649.0             | 63.6        | 10052.0             | 22.8       |
|           | 12:59:   | 2                  | 12649.0             | 63.6        | 10052.0             | 22.8       |
|           | 13: 0:   | 2                  | 12649.0             | 63.6        | 10052.0             | 22.7       |
|           | 13: 1:   | 2                  | 12649.0             | 63.6        | 10052.0             | 22.7       |
|           | 13: 2:   | 2                  | 12649.0             | 63.6        | 10052.0             | 22.7       |
|           | 13: 3:   | 2                  | 12649.0             | 63.6        | 10061.0             | 22.7       |
|           | 13: 4:   | 0                  | 12640.0             | 63.6        | 10061.0             | 22.7       |
|           | 13: 5:   | 0                  | 12640.0             | 63.6        | 10061.0             | 22.8       |
|           | 13: 6:   | 0                  | 12640.0             | 63.6        | 10061.0             | 22.8       |
|           | 13: 7:   | 0                  | 12640.0             | 63.6        | 10061.0             | 22.9       |
|           | 13: 7:46 | 1 hr               | 12631.0             | 63.6        | 10061.0             | 22.9       |
|           | 14: 0:   | 0                  | 12540.0             | 63.6        | 10015.0             | 26.6       |
|           | 15: 0:   | 0                  | 12531.0             | 63.6        | 10034.0             | 27.7       |
|           | 16: 0:   | 0                  | 12440.0             | 63.6        | 10011.0             | 24.3       |



| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 28 Apr 89 | 17: 0: 0 | METRIC             | 12494.0             | 63.6        | 10039.0             | 20.3       |
|           | 18: 0: 1 | 1 hr               | 12485.0             | 63.6        | 10018.0             | 17.1       |
|           | 19: 0: 1 |                    | 12503.0             | 63.6        | 10026.0             | 15.9       |
|           | 20: 0: 1 |                    | 12513.0             | 63.6        | 10008.0             | 15.9       |
|           | 21: 0: 1 |                    | 12421.0             | 63.6        | 9930.0              | 16.0       |
|           | 22: 0: 0 |                    | 12467.0             | 63.6        | 9956.0              | 15.8       |
|           | 23: 0: 0 |                    | 12485.0             | 63.6        | 9973.0              | 15.5       |
| 29 Apr 89 | 0: 0: 13 |                    | 12385.0             | 63.6        | 9886.0              | 15.5       |
|           | 1: 0: 0  |                    | 12540.0             | 63.6        | 10017.0             | 15.5       |
|           | 2: 0: 0  |                    | 12567.0             | 63.6        | 10017.0             | 15.5       |
|           | 3: 0: 0  |                    | 12604.0             | 63.7        | 10060.0             | 15.3       |
|           | 4: 0: 0  |                    | 12558.0             | 63.6        | 10025.0             | 15.2       |
|           | 5: 0: 2  |                    | 12567.0             | 63.6        | 10025.0             | 15.2       |
|           | 6: 0: 2  |                    | 12595.0             | 63.7        | 10025.0             | 15.1       |
|           | 7: 0: 2  |                    | 12631.0             | 63.7        | 10042.0             | 15.0       |
|           | 8: 0: 2  |                    | 12622.0             | 63.7        | 10025.0             | 15.6       |
|           | 8:19:39  |                    | 12622.0             | 63.7        | 10027.0             | 16.7       |
|           | 9: 0: 2  |                    | 12604.0             | 63.7        | 10010.0             | 17.6       |
|           | 10: 0: 2 |                    | 12604.0             | 63.7        | 10003.0             | 19.4       |
|           | 11:17: 6 |                    | 12622.0             | 63.7        | 10012.0             | 19.8       |
|           | 12: 0: 1 |                    | 12604.0             | 63.7        | 9989.0              | 21.6       |
|           | 13: 0: 1 |                    | 12512.0             | 63.7        | 9904.0              | 22.6       |
|           | 14: 0: 1 |                    | 12576.0             | 63.7        | 9998.0              | 21.3       |
|           | 15: 0: 1 |                    | 12604.0             | 63.7        | 9991.0              | 22.5       |
|           | 16: 0: 1 |                    | 12485.0             | 63.7        | 9901.0              | 21.0       |
|           | 17: 0: 1 |                    | 12485.0             | 63.7        | 9908.0              | 19.6       |
|           | 18: 0: 1 |                    | 12558.0             | 63.8        | 9967.0              | 18.3       |
|           | 19: 0: 1 |                    | 12512.0             | 63.8        | 9932.0              | 17.5       |
|           | 20: 0: 2 |                    | 12512.0             | 63.8        | 9923.0              | 17.2       |
|           | 21: 0: 2 |                    | 12531.0             | 63.8        | 9897.0              | 17.0       |
|           | 22: 0: 2 |                    | 12540.0             | 63.8        | 9905.0              | 16.9       |
|           | 23: 0: 2 |                    | 12558.0             | 63.8        | 9923.0              | 16.9       |
| 30 Apr 89 | 0: 0: 13 |                    | 12622.0             | 63.9        | 9983.0              | 16.9       |
|           | 1: 0: 2  |                    | 12658.0             | 63.9        | 10027.0             | 16.8       |
|           | 2: 0: 2  |                    | 12667.0             | 63.9        | 10053.0             | 16.7       |
|           | 3: 0: 2  |                    | 12649.0             | 63.9        | 10044.0             | 16.7       |
|           | 4: 0: 2  |                    | 12658.0             | 64.0        | 10052.0             | 16.5       |
|           | 5: 0: 0  |                    | 12658.0             | 64.0        | 10052.0             | 16.5       |
|           | 6: 0: 0  |                    | 12658.0             | 64.0        | 10061.0             | 16.1       |
|           | 7: 0: 0  |                    | 12676.0             | 64.0        | 10069.0             | 15.6       |
|           | 8: 0: 0  |                    | 12658.0             | 64.0        | 10052.0             | 16.5       |
|           | 8:30:46  |                    | 12667.0             | 64.0        | 10053.0             | 17.4       |
|           | 9: 0: 1  |                    | 12649.0             | 64.0        | 10045.0             | 18.0       |
|           | 10: 0: 1 |                    | 12594.0             | 64.1        | 10039.0             | 19.9       |
|           | 12:36:46 |                    | 12621.0             | 64.1        | 10013.0             | 25.0       |
|           | 12:45: 0 |                    | 12612.0             | 64.1        | 10012.0             | 24.9       |
|           | 12:45:35 |                    | 12612.0             | 64.1        | 10004.0             | 24.9       |
|           | 12:51:10 |                    | 12567.0             | 63.8        | 10004.0             | 24.8       |
|           | 12:52: 4 | 1 min              | 12567.0             | 63.8        | 10003.0             | 24.8       |
|           | 12:53: 0 |                    | 12567.0             | 63.8        | 10003.0             | 24.8       |
|           | 12:54: 0 |                    | 12567.0             | 63.8        | 10012.0             | 24.7       |
|           | 12:55: 0 |                    | 12567.0             | 63.8        | 10012.0             | 24.7       |
|           | 12:56: 0 |                    | 12567.0             | 63.8        | 10012.0             | 24.7       |
|           | 12:57: 2 |                    | 12567.0             | 63.8        | 10012.0             | 24.7       |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 30 Apr 89 | 12:58: 2 | METRIC             | 12576.0             | 63.8        | 10003.0             | 24.7       |
|           | 12:59: 2 | 1 min              | 12567.0             | 63.8        | 10003.0             | 24.7       |
|           | 12:59:37 |                    | 12567.0             | 63.8        | 10003.0             | 24.7       |
|           | 13: 3:59 |                    | 12486.0             | 63.1        | 10021.0             | 24.6       |
|           | 13: 4: 2 |                    | 12486.0             | 63.1        | 10021.0             | 24.7       |
|           | 13: 5: 2 |                    | 12486.0             | 63.1        | 10012.0             | 24.6       |
|           | 13: 6: 2 |                    | 12495.0             | 63.1        | 10012.0             | 24.7       |
|           | 13: 7: 2 |                    | 12504.0             | 63.1        | 10012.0             | 24.7       |
|           | 13: 8: 0 |                    | 12504.0             | 63.1        | 10012.0             | 24.7       |
|           | 13: 9: 0 |                    | 12504.0             | 63.1        | 10004.0             | 24.8       |
|           | 13:10: 0 |                    | 12495.0             | 63.1        | 10012.0             | 24.9       |
|           | 13:11: 0 |                    | 12495.0             | 63.1        | 10012.0             | 25.0       |
|           | 13:11:42 |                    | 12495.0             | 63.1        | 10013.0             | 25.0       |
|           | 13:16:44 |                    | 12332.0             | 62.2        | 9996.0              | 25.3       |
|           | 13:17: 2 |                    | 12323.0             | 62.2        | 10013.0             | 25.3       |
|           | 13:18: 2 |                    | 12332.0             | 62.2        | 10013.0             | 25.4       |
|           | 13:19: 2 |                    | 12332.0             | 62.2        | 10005.0             | 25.4       |
|           | 13:20: 2 |                    | 12323.0             | 62.2        | 10013.0             | 25.5       |
|           | 13:21: 2 |                    | 12323.0             | 62.2        | 10013.0             | 25.5       |
|           | 13:22: 2 |                    | 12323.0             | 62.2        | 10005.0             | 25.5       |
|           | 13:23: 2 |                    | 12323.0             | 62.2        | 10005.0             | 25.6       |
|           | 13:24: 2 |                    | 12323.0             | 62.2        | 9996.0              | 25.6       |
|           | 13:24:27 |                    | 12314.0             | 62.2        | 10005.0             | 25.6       |
|           | 13:28:37 |                    | 12205.0             | 61.3        | 9996.0              | 25.6       |
|           | 13:29: 1 |                    | 12214.0             | 61.3        | 10005.0             | 25.6       |
|           | 13:30: 1 |                    | 12214.0             | 61.3        | 10014.0             | 25.6       |
|           | 13:31: 1 |                    | 12214.0             | 61.3        | 10014.0             | 25.6       |
|           | 13:32: 1 |                    | 12214.0             | 61.2        | 10005.0             | 25.6       |
|           | 13:33: 1 |                    | 12214.0             | 61.2        | 10005.0             | 25.6       |
|           | 13:34: 1 |                    | 12214.0             | 61.2        | 10013.0             | 25.6       |
|           | 13:35: 1 |                    | 12205.0             | 61.2        | 9996.0              | 25.5       |
|           | 13:36: 1 |                    | 12205.0             | 61.2        | 10005.0             | 25.5       |
|           | 13:37: 0 |                    | 12205.0             | 61.2        | 10005.0             | 25.5       |
|           | 13:37:24 |                    | 12205.0             | 61.2        | 10013.0             | 25.4       |
|           | 13:41:52 |                    | 12088.0             | 60.3        | 9996.0              | 25.3       |
|           | 13:42: 1 |                    | 12088.0             | 60.3        | 9996.0              | 25.3       |
|           | 13:43: 1 |                    | 12097.0             | 60.2        | 10013.0             | 25.2       |
|           | 13:44: 1 |                    | 12097.0             | 60.2        | 10004.0             | 25.2       |
|           | 13:45: 1 |                    | 12097.0             | 60.2        | 10013.0             | 25.1       |
|           | 13:46: 1 |                    | 12097.0             | 60.2        | 10004.0             | 25.1       |
|           | 13:47: 1 |                    | 12097.0             | 60.2        | 10004.0             | 25.1       |
|           | 13:48: 1 |                    | 12097.0             | 60.2        | 10013.0             | 25.1       |
|           | 13:49: 1 |                    | 12097.0             | 60.2        | 10004.0             | 25.1       |
|           | 13:49:30 |                    | 12106.0             | 60.2        | 10013.0             | 25.1       |
|           | 14: 4:21 |                    | 11665.0             | 54.9        | 10005.0             | 25.8       |
|           | 14: 5: 0 |                    | 11665.0             | 54.8        | 10005.0             | 25.9       |
|           | 14: 6: 0 |                    | 11674.0             | 54.8        | 10005.0             | 26.0       |
|           | 14: 7: 0 |                    | 11665.0             | 54.7        | 10006.0             | 26.0       |
|           | 14: 8: 0 |                    | 11665.0             | 54.7        | 10006.0             | 26.0       |
|           | 14: 9: 0 |                    | 11674.0             | 54.8        | 10014.0             | 26.1       |
|           | 14:10: 0 |                    | 11665.0             | 54.7        | 10006.0             | 26.1       |
|           | 14:11: 0 |                    | 11674.0             | 54.7        | 10006.0             | 26.1       |
|           | 14:12: 0 |                    | 11665.0             | 54.7        | 10006.0             | 26.1       |
|           | 14:13: 1 |                    | 11656.0             | 54.7        | 9997.0              | 26.1       |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE -<br>PRESSURE | 119<br>TEMP | PROBE -<br>PRESSURE | 19<br>TEMP |
|-----------|----------|--------------------|---------------------|-------------|---------------------|------------|
| 30 Apr 89 | 14:13:43 | METRIC             | 11656.0             | 54.7        | 9997.0              | 26.1       |
|           | 14:30: 6 | 1 min              | 11255.0             | 48.0        | 10014.0             | 25.7       |
|           | 14:31: 2 |                    | 11238.0             | 47.9        | 10022.0             | 25.7       |
|           | 14:32: 2 |                    | 11238.0             | 47.9        | 10022.0             | 25.7       |
|           | 14:33: 2 |                    | 11229.0             | 47.8        | 10014.0             | 25.7       |
|           | 14:34: 2 |                    | 11220.0             | 47.8        | 10014.0             | 25.7       |
|           | 14:35: 0 |                    | 11211.0             | 47.8        | 10022.0             | 25.7       |
|           | 14:36: 0 |                    | 11229.0             | 47.8        | 10014.0             | 25.7       |
|           | 14:37: 0 |                    | 11247.0             | 47.9        | 10014.0             | 25.7       |
|           | 14:38: 0 |                    | 11229.0             | 47.9        | 10022.0             | 25.7       |
|           | 14:39: 1 |                    | 11220.0             | 47.8        | 10014.0             | 25.7       |
|           | 14:40: 1 |                    | 11229.0             | 47.8        | 10014.0             | 25.7       |
|           | 14:40:41 |                    | 11229.0             | 47.8        | 10005.0             | 25.7       |
|           | 14:54:40 |                    | 10856.0             | 40.2        | 10013.0             | 25.5       |
|           | 14:55: 1 |                    | 10857.0             | 40.1        | 10013.0             | 25.5       |
|           | 14:56: 1 |                    | 10848.0             | 40.0        | 10013.0             | 25.5       |
|           | 14:57: 1 |                    | 10839.0             | 39.9        | 10022.0             | 25.5       |
|           | 14:58: 1 |                    | 10821.0             | 39.9        | 10013.0             | 25.5       |
|           | 14:59: 2 |                    | 10813.0             | 39.8        | 10013.0             | 25.5       |
|           | 15: 0: 2 |                    | 10803.0             | 39.8        | 10005.0             | 25.5       |
|           | 15: 1: 2 |                    | 10812.0             | 39.8        | 10005.0             | 25.5       |
|           | 15: 2: 2 |                    | 10803.0             | 39.8        | 10013.0             | 25.5       |
|           | 15: 3: 0 |                    | 10803.0             | 39.8        | 10005.0             | 25.5       |
|           | 15: 3:24 |                    | 10803.0             | 39.8        | 10005.0             | 25.5       |
|           | 15:14:10 |                    | 10450.0             | 33.7        | 10005.0             | 25.8       |
|           | 15:15: 1 |                    | 10450.0             | 33.6        | 10014.0             | 25.9       |
|           | 15:16: 1 |                    | 10451.0             | 33.6        | 10014.0             | 25.9       |
|           | 15:17: 1 |                    | 10433.0             | 33.5        | 10014.0             | 25.9       |
|           | 15:18: 1 |                    | 10424.0             | 33.5        | 10014.0             | 25.9       |
|           | 15:19: 2 |                    | 10424.0             | 33.5        | 10014.0             | 25.9       |
|           | 15:20: 2 |                    | 10415.0             | 33.5        | 10014.0             | 25.8       |
|           | 15:21: 2 |                    | 10406.0             | 33.4        | 10014.0             | 25.8       |
|           | 15:22: 2 |                    | 10406.0             | 33.4        | 10014.0             | 25.8       |
|           | 15:23: 0 |                    | 10406.0             | 33.4        | 10014.0             | 25.8       |
|           | 15:23:23 |                    | 10397.0             | 33.4        | 10005.0             | 25.8       |
|           | 15:38: 9 |                    | 10397.0             | 33.4        | 10005.0             | 25.6       |
|           | 15:39: 1 |                    | 10101.0             | 28.5        | 10013.0             | 25.5       |
|           | 15:40: 1 |                    | 10104.0             | 27.9        | 10013.0             | 25.5       |
|           | 15:41: 1 |                    | 10116.0             | 27.4        | 10005.0             | 25.5       |
|           | 15:42: 1 |                    | 10127.0             | 27.0        | 10013.0             | 25.4       |
|           | 15:43: 1 |                    | 10120.0             | 26.6        | 10013.0             | 25.4       |
|           | 15:44: 1 |                    | 10130.0             | 26.4        | 10022.0             | 25.4       |
|           | 15:45: 1 |                    | 10122.0             | 26.1        | 10030.0             | 25.3       |
|           | 15:46: 1 |                    | 10132.0             | 25.9        | 10039.0             | 25.3       |
|           | 15:47: 1 |                    | 10115.0             | 25.7        | 10022.0             | 25.2       |
|           | 15:48: 1 |                    | 10125.0             | 25.5        | 10030.0             | 25.2       |
|           | 15:49: 1 |                    | 10117.0             | 25.4        | 10021.0             | 25.2       |
|           | 15:50: 1 |                    | 10108.0             | 25.2        | 10021.0             | 25.1       |
|           | 15:51: 1 |                    | 10100.0             | 25.1        | 10021.0             | 25.1       |
|           | 15:52: 1 |                    | 10119.0             | 24.9        | 10030.0             | 25.0       |
|           | 15:53: 1 |                    | 10101.0             | 24.8        | 10021.0             | 25.0       |
|           | 15:54: 1 |                    | 10102.0             | 24.7        | 10030.0             | 25.0       |
|           | 15:55: 1 |                    | 10102.0             | 24.6        | 10038.0             | 25.0       |
|           | 15:55:45 |                    | 10103.0             | 24.5        | 10030.0             | 24.9       |

| DATE      | TIME     | UNITS/<br>INTERVAL | PROBE - 119<br>PRESSURE | TEMP | PROBE - 19<br>PRESSURE | TEMP |
|-----------|----------|--------------------|-------------------------|------|------------------------|------|
| 30 Apr 89 | 16: 3:30 | METRIC             | 204.0                   | 20.1 | 103.0                  | 23.9 |
|           | 16: 4: 0 | 1 min              | 204.0                   | 20.1 | 103.0                  | 23.8 |
|           | 16: 5: 0 |                    | 194.0                   | 20.2 | 103.0                  | 23.8 |
|           | 16: 6: 0 |                    | 185.0                   | 20.3 | 102.0                  | 23.7 |
|           | 16: 7: 0 |                    | 184.0                   | 20.3 | 102.0                  | 23.7 |
|           | 16: 8: 1 |                    | 175.0                   | 20.4 | 102.0                  | 23.7 |
|           | 16: 9: 1 |                    | 165.0                   | 20.5 | 102.0                  | 23.6 |
|           | 16:10: 1 |                    | 165.0                   | 20.6 | 102.0                  | 23.6 |
|           | 16:11: 1 |                    | 156.0                   | 20.6 | 102.0                  | 23.6 |
|           | 16:12: 1 |                    | 155.0                   | 20.7 | 102.0                  | 23.6 |
|           | 16:13: 1 |                    | 146.0                   | 20.7 | 102.0                  | 23.6 |
|           | 16:14: 1 |                    | 146.0                   | 20.8 | 102.0                  | 23.6 |
|           | 16:15: 1 |                    | 146.0                   | 20.9 | 102.0                  | 23.6 |
|           | 16:16: 0 |                    | 136.0                   | 20.9 | 102.0                  | 23.5 |
|           | 16:17: 0 |                    | 136.0                   | 21.0 | 102.0                  | 23.5 |
|           | 16:18: 0 |                    | 136.0                   | 21.0 | 102.0                  | 23.5 |

Date 15/05/89

MAGELLAN PETROLEUM

Time 12:32:10

Int

Hours 54.2

Read

Units

13000.

12200.

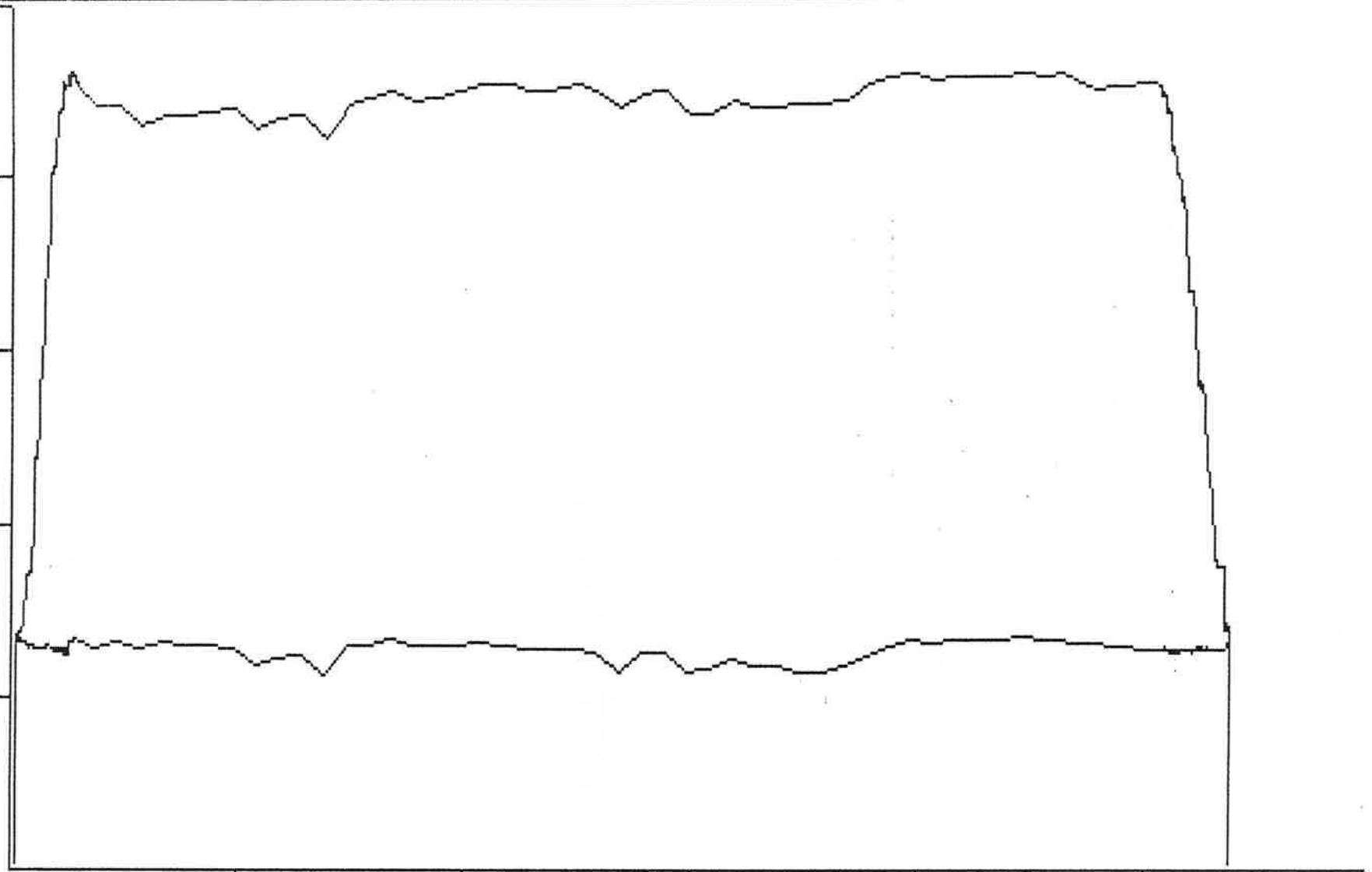
11400.

10600.

9800.

9000.

1 1  
1 1 0.01 10.01 20.01 30.00 40.00 50.00 60.00



PAGE # 1 - CALIBRATION DATA - (LAST CHANGED 20:01:53 24/06/88)

|                       |       |                         |                     |
|-----------------------|-------|-------------------------|---------------------|
| DP AT 4 MA. KPA.      | .00   | TEMPERATURE BASE DEG.C. | 15.00               |
| DP AT 20 MA. KPA.     | 25.00 | PRESSURE BASE KPA.      | 101.3               |
| PRESS. AT 4 MA. KPA.  | 0     | ATMOS. PRESSURE KPA.    | 90.5                |
| PRESS. AT 20 MA. KPA. | 12000 | RELATIVE DENSITY        | .6310               |
| RTD IN USE            |       | CARBON DIOXIDE %        | .05                 |
|                       |       | NITROGEN %              | 1.77                |
| PIPE ID. CM.          | 7.366 | SPECIFIC HEAT RATIO     | 1.29                |
| ORIFICE ID. CM.       | 3.875 | FLANGE TAP -            | DOWNSTREAM PRESSURE |

- CALCULATED DATA -

FB 495.599 FG 1.2589 FFB 1.0030 FTB .9981

- HOURLY AVERAGES ANALOG DATA -

=====

FW.AVG. FOR DAY: D.P KPA. 19.49 STATIC PRESS. KPA. 9784 TEMP.DEG.C 64.6

=====

TODAY : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00

DP, AM: 19.33 19.08 18.99 19.04 19.10 19.06 19.05 19.01 .00 .00 .00 .00

KPA PM: .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00

SP, AM: 9764 9751 9733 9705 9676 9645 9615 9672 0 0 0 0

KPA PM: 0 0 0 0 0 0 0 0 0 0 0 0

TMP,AM: 64.6 64.7 64.7 64.7 64.6 64.7 65.0 65.0 .0 .0 .0 .0

'C' PM: .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

=====

FW.AVG. FOR DAY: D.P KPA. 19.72 STATIC PRESS. KPA. 9781 TEMP.DEG.C 64.7

=====

DAY-1 : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00

DP, AM: 19.31 19.28 19.29 19.28 19.23 19.22 19.24 19.23 19.47 19.65 19.68 19.81

KPA PM: 19.84 20.09 19.86 19.58 19.59 19.56 19.85 19.47 19.61 19.49 19.66 19.60

SP, AM: 9781 9762 9738 9712 9686 9655 9623 9669 9870 9859 9849 9840

KPA PM: 9826 9802 9803 9831 9835 9840 9819 9841 9834 9825 9797 9778

TMP,AM: 64.7 64.6 64.7 64.9 64.7 64.8 64.7 64.7 64.6 64.8 64.8 64.8

'C' PM: 64.5 64.3 64.3 64.3 64.3 64.5 64.7 64.6 64.5 64.6 64.4 64.4

=====

FW.AVG. FOR DAY: D.P KPA. 20.00 STATIC PRESS. KPA. 9772 TEMP.DEG.C 64.9

=====

DAY-2 : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00

DP, AM: 19.59 19.49 19.42 19.38 19.43 19.40 19.36 19.52 19.80 20.01 20.05 20.11

KPA PM: 20.16 20.22 19.95 19.92 20.14 20.21 20.10 19.84 19.70 19.52 19.58 19.59

SP, AM: 9776 9758 9735 9710 9684 9653 9622 9669 9855 9836 9831 9822

KPA PM: 9815 9807 9820 9828 9814 9805 9799 9810 9820 9833 9812 9792

TMP,AM: 65.2 65.2 65.2 65.3 65.2 65.1 65.2 64.9 64.8 64.9 65.0 65.0

'C' PM: 64.7 64.5 64.4 64.3 64.4 64.4 64.6 64.7 64.7 64.8 64.6 64.7

\*\*\* HISTORICAL DATA REPORT \*\*\* COMPUTER # 3 TIME 08:02:18 DATE 07/05/89

PAGE # 2 - HOURLY AVERAGES ANALOG INPUTS -

```
=====
FW.AVG. FOR DAY: D.P KPA. 20.68 STATIC PRESS. KPA. 9724 TEMP.DEG.C 65.0
=====
DAY-3 : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00
=====
DP. AM: 20.25 20.30 20.34 20.26 20.29 19.92 19.75 19.81 20.02 20.30 20.35 20.43
KPA PM: 20.50 20.38 20.44 20.40 20.80 20.78 20.38 19.96 19.90 20.04 19.83 19.68

SP. AM: 9745 9730 9704 9681 9658 9648 9642 9651 9829 9842 9833 9822
KPA PM: 9813 9817 9808 9802 9782 9755 9770 9800 9818 9809 9808 9793

TMP.AM: 65.5 65.5 65.3 65.3 65.3 65.4 65.4 65.3 65.3 65.1 65.1 64.9
'C' PM: 64.8 64.8 64.5 64.4 64.4 64.6 64.8 64.9 65.1 65.0 65.1 65.1
=====
```

```
=====
FW.AVG. FOR DAY: D.P KPA. 22.32 STATIC PRESS. KPA. 9759 TEMP.DEG.C 63.6
=====
DAY-4 : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00
=====
DP. AM: 20.46 20.56 20.46 20.49 20.43 20.38 20.25 20.33 20.67 20.89 21.01 20.85
KPA PM: 20.79 21.19 21.81 21.58 21.26 21.34 21.08 20.46 20.17 20.51 20.75 20.69

SP. AM: 9757 9739 9722 9708 9692 9676 9663 9680 9795 9803 9796 9798
KPA PM: 9794 9777 9718 9688 9666 9649 9662 9712 9769 9773 9760 9746

TMP.AM: 64.7 64.7 64.8 64.9 65.1 65.2 65.1 65.1 65.2 65.1 65.0 64.9
'C' PM: 64.9 64.6 64.3 64.6 64.6 64.7 64.7 65.0 65.1 65.2 65.2 65.2
=====
```

```
=====
FW.AVG. FOR DAY: D.P KPA. 19.16 STATIC PRESS. KPA. 9785 TEMP.DEG.C 64.7
=====
DAY-5 : 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00
=====
DP. AM: .00 .00 .00 .00 .00 .00 .00 .00 26.53 26.18 25.90 25.85
KPA PM: 25.23 24.65 23.88 23.55 22.93 21.75 21.67 21.34 21.12 20.86 20.68 20.49

SP. AM: 0 0 0 0 0 0 0 0 10151 9898 9849 9821
KPA PM: 9818 9806 9806 9777 9709 9725 9690 9706 9721 9737 9754 9761

TMP.AM: .0 .0 .0 .0 .0 .0 .0 .0 51.0 59.1 61.6 62.6
'C' PM: 63.0 63.2 63.8 63.5 63.9 64.5 64.4 64.3 64.4 64.6 64.7 64.7
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| DAY     | 00:00 | 01:00  | 02:00 | 03:00  | 04:00 | 05:00  | 06:00 | 07:00  | 08:00 | 09:00  | 10:00 | 11:00 |
|---------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|
| TODAY : | 5789  | 5747   | 5729  | 5726   | 5726  | 5710   | 5696  | 5709   | 0     | 0      | 0     | 0     |
| SM3 PM: | 0     | 0      | 0     | 0      | 0     | 0      | 0     | 0      | 0     | 0      | 0     | 0     |
| 24 HR : | SM3=  | 139574 | FPV=  | 1.0613 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9998  | FTF=  | .9246 |
| - 1 AM: | 5788  | 5778   | 5773  | 5760   | 5748  | 5733   | 5726  | 5743   | 5842  | 5863   | 5866  | 5884  |
| SM3 PM: | 5884  | 5918   | 5879  | 5842   | 5845  | 5847   | 5874  | 5831   | 5851  | 5833   | 5849  | 5834  |
| 24 HR : | SM3=  | 140301 | FPV=  | 1.0612 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9998  | FTF=  | .9245 |
| - 2 AM: | 5822  | 5803   | 5780  | 5767   | 5768  | 5754   | 5737  | 5778   | 5883  | 5908   | 5904  | 5910  |
| SM3 PM: | 5917  | 5929   | 5894  | 5892   | 5921  | 5933   | 5914  | 5877   | 5860  | 5836   | 5840  | 5834  |
| 24 HR : | SM3=  | 141220 | FPV=  | 1.0609 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0017 | FTF=  | .9241 |
| - 3 AM: | 5908  | 5912   | 5911  | 5893   | 5889  | 5829   | 5803  | 5816   | 5904  | 5954   | 5958  | 5969  |
| SM3 PM: | 5976  | 5961   | 5972  | 5962   | 6015  | 6001   | 5943  | 5891   | 5886  | 5903   | 5871  | 5845  |
| 24 HR : | SM3=  | 143209 | FPV=  | 1.0606 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9999  | FTF=  | .9240 |
| - 4 AM: | 5953  | 5963   | 5943  | 5939   | 5922  | 5910   | 5889  | 5905   | 5990  | 6026   | 6041  | 6021  |
| SM3 PM: | 6012  | 6066   | 6137  | 6093   | 6039  | 6044   | 6011  | 5934   | 5909  | 5960   | 5990  | 5975  |
| 24 HR : | SM3=  | 144591 | FPV=  | 1.0621 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9986  | FTF=  | .9259 |
| - 5 AM: | 5753  | 5732   | 5674  | 5442   | 3228  | 5      | 0     | 0      | 3011  | 6876   | 6265  | 6306  |
| SM3 PM: | 6658  | 6574   | 6463  | 6413   | 6298  | 6133   | 6110  | 6069   | 6042  | 6006   | 5984  | 5959  |
| 24 HR : | SM3=  | 118966 | FPV=  | 1.0612 | Y=    | 1.0003 | FR=   | 1.0002 | FA=   | 1.0016 | FTF=  | .9244 |
| - 6 AM: | 5805  | 5785   | 5788  | 5772   | 5854  | 5897   | 5851  | 5820   | 5844  | 5868   | 5896  | 5909  |
| SM3 PM: | 5884  | 5858   | 5849  | 5836   | 5813  | 5815   | 5810  | 5775   | 5740  | 5746   | 5728  | 5761  |
| 24 HR : | SM3=  | 140683 | FPV=  | 1.0612 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9999  | FTF=  | .9247 |
| - 7 AM: | 5839  | 5838   | 5824  | 5814   | 5789  | 5775   | 5750  | 5746   | 5828  | 5915   | 5980  | 5999  |
| SM3 PM: | 5999  | 6005   | 5949  | 5900   | 5825  | 5792   | 5784  | 5802   | 5787  | 5869   | 5859  | 5818  |
| 24 HR : | SM3=  | 142439 | FPV=  | 1.0606 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0016 | FTF=  | .9241 |
| - 8 AM: | 6000  | 5937   | 5889  | 5935   | 5915  | 5875   | 5857  | 5870   | 6017  | 6031   | 6002  | 6027  |
| SM3 PM: | 6075  | 6130   | 5987  | 6102   | 6046  | 5956   | 5974  | 5999   | 5945  | 5941   | 5938  | 5894  |
| 24 HR : | SM3=  | 144305 | FPV=  | 1.0610 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0016 | FTF=  | .9247 |
| - 9 AM: | 5832  | 5822   | 5805  | 5796   | 5784  | 5778   | 5757  | 5760   | 5793  | 5964   | 5917  | 5963  |
| SM3 PM: | 6020  | 6229   | 6198  | 6217   | 6163  | 6111   | 6088  | 6075   | 6097  | 6065   | 6054  | 6073  |
| 24 HR : | SM3=  | 141814 | FPV=  | 1.0608 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9999  | FTF=  | .9241 |
| -10 AM: | 5969  | 5946   | 5902  | 5972   | 5944  | 5926   | 5906  | 5929   | 6036  | 6065   | 6062  | 6088  |
| SM3 PM: | 6080  | 6072   | 6014  | 5986   | 5947  | 5927   | 5901  | 5881   | 5866  | 5858   | 5854  | 5843  |
| 24 HR : | SM3=  | 143190 | FPV=  | 1.0610 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9957  | FTF=  | .9243 |
| -11 AM: | 5760  | 5744   | 5713  | 5702   | 5658  | 5656   | 5667  | 5667   | 5721  | 5749   | 5804  | 5801  |
| SM3 PM: | 5824  | 5942   | 6294  | 6166   | 6107  | 6068   | 6064  | 6062   | 6037  | 6036   | 6029  | 5992  |
| 24 HR : | SM3=  | 139233 | FPV=  | 1.0609 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9999  | FTF=  | .9242 |



| DAY     | 00:00 | 01:00  | 02:00 | 03:00  | 04:00 | 05:00  | 06:00 | 07:00  | 08:00 | 09:00  | 10:00 | 11:00 |
|---------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|
| -12 AM: | 5826  | 5802   | 5791  | 5773   | 5790  | 5783   | 5772  | 5785   | 5870  | 5897   | 5915  | 5903  |
| SM3 PM: | 5872  | 5910   | 5888  | 5855   | 5850  | 5846   | 5847  | 5841   | 5834  | 5787   | 5785  | 5766  |
| 24 HR : | SM3=  | 140685 | FPV=  | 1.0610 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0017 | FTF=  | .9243 |
| -13 AM: | 5906  | 5886   | 5861  | 5841   | 5828  | 5819   | 5799  | 5850   | 5926  | 5931   | 5925  | 5922  |
| SM3 PM: | 5936  | 5939   | 5927  | 5908   | 5903  | 5888   | 5875  | 5875   | 5868  | 5855   | 5847  | 5838  |
| 24 HR : | SM3=  | 143217 | FPV=  | 1.0609 | Y=    | 1.0004 | FR=   | 1.0001 | FA=   | 1.0016 | FTF=  | .9243 |
| -14 AM: | 5845  | 5834   | 5815  | 5804   | 5788  | 5775   | 5765  | 5755   | 5799  | 5821   | 5852  | 5961  |
| SM3 PM: | 6313  | 6217   | 6159  | 6147   | 6096  | 6127   | 6061  | 6022   | 5996  | 5978   | 5953  | 5925  |
| 24 HR : | SM3=  | 140888 | FPV=  | 1.0608 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0017 | FTF=  | .9240 |
| -15 AM: | 5943  | 5919   | 5895  | 5870   | 5842  | 5819   | 5797  | 5820   | 5929  | 5932   | 5932  | 5927  |
| SM3 PM: | 5927  | 5935   | 5946  | 5914   | 5906  | 5894   | 5892  | 5885   | 5881  | 5876   | 5872  | 5859  |
| 24 HR : | SM3=  | 144274 | FPV=  | 1.0607 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9998  | FTF=  | .9240 |
| -16 AM: | 5931  | 5903   | 5877  | 5842   | 5825  | 5821   | 5805  | 5854   | 5930  | 5944   | 6272  | 6237  |
| SM3 PM: | 6179  | 6156   | 6167  | 6169   | 6124  | 6073   | 6059  | 6033   | 6028  | 6007   | 6008  | 5983  |
| 24 HR : | SM3=  | 143977 | FPV=  | 1.0609 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9998  | FTF=  | .9241 |
| -17 AM: | 5778  | 5766   | 5754  | 5747   | 5737  | 5712   | 5694  | 5740   | 5812  | 5849   | 6139  | 6270  |
| SM3 PM: | 6198  | 6150   | 6174  | 6149   | 6187  | 6113   | 6059  | 6014   | 6035  | 6011   | 6001  | 5958  |
| 24 HR : | SM3=  | 139765 | FPV=  | 1.0610 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9998  | FTF=  | .9243 |
| -18 AM: | 5923  | 5897   | 5853  | 5836   | 5815  | 5798   | 5768  | 5801   | 5885  | 5913   | 5900  | 5903  |
| SM3 PM: | 5912  | 5913   | 5895  | 5884   | 5876  | 5873   | 5853  | 5839   | 5829  | 5789   | 5784  | 5789  |
| 24 HR : | SM3=  | 143604 | FPV=  | 1.0609 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0017 | FTF=  | .9242 |
| -19 AM: | 5852  | 5839   | 5803  | 6022   | 5984  | 5941   | 5916  | 5981   | 6066  | 6156   | 6119  | 6134  |
| SM3 PM: | 6127  | 6109   | 6099  | 6069   | 6053  | 6068   | 6009  | 6009   | 6004  | 5982   | 5945  | 5964  |
| 24 HR : | SM3=  | 140910 | FPV=  | 1.0610 | Y=    | 1.0004 | FR=   | 1.0001 | FA=   | .9999  | FTF=  | .9243 |
| -20 AM: | 5961  | 5977   | 5965  | 5931   | 5941  | 5898   | 5895  | 5944   | 6006  | 5998   | 4633  | 5973  |
| SM3 PM: | 5969  | 5960   | 5944  | 5936   | 5920  | 5911   | 5906  | 5898   | 5894  | 5881   | 5878  | 5865  |
| 24 HR : | SM3=  | 144758 | FPV=  | 1.0612 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9987  | FTF=  | .9245 |
| -21 AM: | 5979  | 5954   | 5957  | 5928   | 5924  | 5912   | 5889  | 5938   | 6010  | 6115   | 6152  | 6227  |
| SM3 PM: | 6169  | 6126   | 6118  | 6134   | 6113  | 6089   | 6030  | 6045   | 5990  | 5969   | 5973  | 5986  |
| 24 HR : | SM3=  | 144852 | FPV=  | 1.0614 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | 1.0016 | FTF=  | .9246 |
| -22 AM: | 5750  | 5738   | 5730  | 5716   | 5706  | 5693   | 5679  | 5759   | 5817  | 6168   | 6197  | 6170  |
| SM3 PM: | 6139  | 6140   | 6150  | 6167   | 6125  | 6106   | 6054  | 6060   | 6057  | 6032   | 6010  | 5979  |
| 24 HR : | SM3=  | 139968 | FPV=  | 1.0620 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9997  | FTF=  | .9254 |
| -23 AM: | 5829  | 5809   | 5792  | 5776   | 5796  | 5765   | 5752  | 5836   | 5892  | 5910   | 5929  | 5948  |
| SM3 PM: | 5942  | 5954   | 5923  | 5889   | 5872  | 5913   | 5911  | 5857   | 5816  | 5856   | 5814  | 5771  |
| 24 HR : | SM3=  | 141213 | FPV=  | 1.0620 | Y=    | 1.0003 | FR=   | 1.0001 | FA=   | .9996  | FTF=  | .9253 |

| DAY     | 00:00 | 01:00                                                         | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 |
|---------|-------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -24 AM: | 5846  | 5911                                                          | 5872  | 5875  | 5844  | 5827  | 5830  | 5914  | 5988  | 5984  | 5967  | 5963  |
| SM3 PM: | 5983  | 6005                                                          | 5982  | 5962  | 5932  | 5919  | 5905  | 5877  | 5858  | 5852  | 5854  | 5827  |
| 24 HR : | SM3=  | 141996 FPV= 1.0616 Y= 1.0003 FR= 1.0001 FA= .9999 FTF= .9247  |       |       |       |       |       |       |       |       |       |       |
| -25 AM: | 5861  | 5856                                                          | 5848  | 5837  | 5853  | 5856  | 5847  | 5848  | 5855  | 5912  | 5927  | 5977  |
| SM3 PM: | 6005  | 6005                                                          | 5984  | 5953  | 5953  | 5929  | 5988  | 5949  | 5943  | 5916  | 5897  | 5884  |
| 24 HR : | SM3=  | 141698 FPV= 1.0612 Y= 1.0003 FR= 1.0001 FA= .9965 FTF= .9243  |       |       |       |       |       |       |       |       |       |       |
| -26 AM: | 5934  | 5922                                                          | 5891  | 5883  | 5876  | 5865  | 5852  | 5889  | 5965  | 6004  | 5981  | 5985  |
| SM3 PM: | 5985  | 5964                                                          | 5911  | 5921  | 5891  | 5931  | 5932  | 5896  | 5890  | 5857  | 5883  | 5896  |
| 24 HR : | SM3=  | 142802 FPV= 1.0618 Y= 1.0003 FR= 1.0001 FA= 1.0016 FTF= .9252 |       |       |       |       |       |       |       |       |       |       |
| -27 AM: | 5936  | 5950                                                          | 5906  | 5897  | 5879  | 5883  | 5857  | 5904  | 5984  | 6030  | 6009  | 6044  |
| SM3 PM: | 6050  | 6034                                                          | 5984  | 5955  | 5980  | 5959  | 5952  | 5950  | 5946  | 5937  | 5935  | 5941  |
| 24 HR : | SM3=  | 142957 FPV= 1.0618 Y= 1.0003 FR= 1.0001 FA= 1.0016 FTF= .9251 |       |       |       |       |       |       |       |       |       |       |
| -28 AM: | 5928  | 5920                                                          | 5914  | 5908  | 5892  | 5857  | 5893  | 5925  | 5985  | 5987  | 5987  | 6022  |
| SM3 PM: | 6003  | 5989                                                          | 5996  | 5995  | 6001  | 5985  | 5969  | 5989  | 5986  | 5966  | 5947  | 5938  |
| 24 HR : | SM3=  | 142788 FPV= 1.0626 Y= 1.0003 FR= 1.0001 FA= 1.0016 FTF= .9264 |       |       |       |       |       |       |       |       |       |       |
| -29 AM: | 5789  | 5849                                                          | 5845  | 5837  | 5820  | 5798  | 5833  | 5831  | 5841  | 5884  | 5912  | 6081  |
| SM3 PM: | 6016  | 6006                                                          | 5967  | 5986  | 6023  | 6000  | 5981  | 5967  | 5986  | 5971  | 5966  | 5964  |
| 24 HR : | SM3=  | 140928 FPV= 1.0615 Y= 1.0003 FR= 1.0001 FA= 1.0016 FTF= .9248 |       |       |       |       |       |       |       |       |       |       |
| -30 AM: | 5795  | 5772                                                          | 5754  | 5791  | 5860  | 5700  | 5725  | 5770  | 5877  | 5965  | 5970  | 5946  |
| SM3 PM: | 5981  | 5952                                                          | 5976  | 5957  | 5898  | 5863  | 5855  | 5849  | 5830  | 5819  | 5804  | 5784  |
| 24 HR : | SM3=  | 140753 FPV= 1.0612 Y= 1.0003 FR= 1.0001 FA= .9999 FTF= .9242  |       |       |       |       |       |       |       |       |       |       |
| -31 AM: | 5801  | 5721                                                          | 5803  | 5800  | 5772  | 5743  | 5716  | 5772  | 5833  | 5926  | 6093  | 6017  |
| SM3 PM: | 6002  | 5993                                                          | 5946  | 5984  | 5952  | 5939  | 5855  | 5814  | 5814  | 5820  | 5800  | 5798  |
| 24 HR : | SM3=  | 141629 FPV= 1.0613 Y= 1.0003 FR= 1.0001 FA= 1.0017 FTF= .9241 |       |       |       |       |       |       |       |       |       |       |
| -32 AM: | 0     | 0                                                             | 0     | 0     | 0     | 0     | 0     | 0     | 5968  | 5970  | 5955  | 5983  |
| SM3 PM: | 6136  | 5950                                                          | 5962  | 5943  | 5965  | 6068  | 6073  | 5990  | 5843  | 5924  | 5921  | 5850  |
| 24 HR : | SM3=  | 143171 FPV= 1.0616 Y= 1.0003 FR= 1.0001 FA= .9999 FTF= .9244  |       |       |       |       |       |       |       |       |       |       |