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TABLE 2  
WATER ANALYSIS

LOCATION: LANGLEY MATIX QUEEN, WELL NO. 3  
DATE SAMPLED: APRIL 15, 1983

WELL NO.:  
SAMPLE POINT:

| CONSTITUENTS              | PPM                | MEQ PER LITER |
|---------------------------|--------------------|---------------|
| SODIUM + POTASSIUM (NA+K) | 34030              | 1479.624      |
| CALCIUM (CA)              | 1120               | 55.888        |
| MAGNESIUM (MG)            | 5685               | 467.648       |
| IRON (FE)                 | 0                  | 0.0           |
| FLUORIDE (F)              | 12                 | 0.215         |
| CARBONATE (CO3)           | 0                  | 0.0           |
| BICARBONATE (HCO3)        | 1598               | 26.191        |
| SULFATE (SO4)             | 4900               | 102.067       |
| CHLORIDE (CL)             | 65500              | 1875.965      |
| SILICA (SiO2)             | 0                  | 0.0           |
| STROPHIUM (SR)            | 0                  | 0.0           |
| TOTAL DISSOLVED SOLIDS    | 113845             |               |
| PH AT 20 DEG C            | 7.60               |               |
| TOTAL ALKALINITY          | 0 PPM AS CaCO3     |               |
| TOTAL HARDNESS            | 26196 PPM AS CaCO3 |               |

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TABLE 3  
WATER ANALYSIS

| MIXTURE OF 90 PERCENT JH-8           |  | CALCULATED         |               |
|--------------------------------------|--|--------------------|---------------|
| CONSTITUENTS                         |  | PPM                | MEQ PER LITER |
| SODIUM + POTASSIUM (NA+K)            |  | 50995              | 2217.263      |
| CALCIUM (CA) <del>measured</del>     |  | 4396               | 219.360       |
| MAGNESIUM (MG) <del>measured</del>   |  | 1798               | 147.903       |
| ALUMINUM (A) <del>measured</del>     |  | 0                  | 0.0           |
| IRON (FE) <del>measured</del>        |  | 1                  | 0.013         |
| CARBONATE (CO3) <del>measured</del>  |  | 0                  | 0.0           |
| ACETONATE (HCO3) <del>measured</del> |  | 670                | 10.981        |
| SULFATE (SO4) <del>measured</del>    |  | 2537               | 53.887        |
| CHLORIDE (CL) <del>measured</del>    |  | 89450              | 2523.384      |
| SILICA (SiO2) <del>measured</del>    |  | 0                  | 0.0           |
| STRENGTH (SR) <del>measured</del>    |  | 0                  | 0.0           |
| TOTAL DISSOLVED SOLIDS               |  | 149897             |               |
| PH AT 20 DEG C                       |  | 6.57               |               |
| TOTAL ALKALINITY                     |  | 0 PPM AS CaCO3     |               |
| TOTAL HARDNESS                       |  | 18377 PPM AS CaCO3 |               |

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...CALCULATED

20 PERCENT LM-3

PPM

MEAD PAPER LITING

49110

2135.303

4032

201.197

2230

133.440

□

20

0.036

•

0.0

22

12.669

2344

33.241

00698

2451.449

6

0.0

○

00

145891

145891

6.6

6.6

0 FROM AS CAC03

0 FROM AS CAC03

19246 PPM AS CAC03

19246 PPM AS CAC03

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TABLE 5  
WATER ANALYSIS

Most likely

| CALCULATED                 |                 |              | MEQ PER LITER |
|----------------------------|-----------------|--------------|---------------|
| MIXTURE OF 70 PERCENT JB-8 | 30 PERCENT LM-3 |              |               |
| CONSTITUENTS               |                 | PPM          |               |
| SODIUM + POTASSIUM (NA+K)  | 47225           |              | 2053.343      |
| CALCIUM (CA)               | 3659            |              | 152.033       |
| MAGNESIUM (MG)             | 2662            |              | 213.976       |
| BARIUM (BA)                | 0               |              | 0.0           |
| IRON (FE)                  | 4               |              | 0.072         |
| CARBONATE (CO3)            | 0               |              | 0.0           |
| BICARBONATE (HCO3)         | 876             |              | 14.358        |
| SULFATE (SO4)              | 3101            |              | 64.594        |
| CHLORIDE (CL)              | 84350           |              | 2379.713      |
| SILICA (SiO2)              | 0               |              | 0.0           |
| STRONTIUM (SR)             | 0               |              | 0.0           |
| TOTAL DISSOLVED SOLIDS     | 141886          |              |               |
| PH AT 20 DEG C             | 6.30            |              |               |
| TOTAL ALKALINITY           | 0               | PPM AS CaCO3 |               |
| TOTAL HARDNESS             | 20116           | PPM AS CaCO3 |               |

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TABLE 5  
WATER ANALYSIS

| MIXTURE OF 60 PERCENT JB-R | CALCULATED                                       |                    | 40 PERCENT LM-3 | MEQ PER LITER |
|----------------------------|--------------------------------------------------|--------------------|-----------------|---------------|
|                            | CONSTITUENTS                                     | PPM                |                 |               |
|                            | SODIUM + POTASSIUM (NA+K)                        | 45340              |                 | 1971.383      |
|                            | CALCIUM (CA) <del>ammmmmmmmmmmmmmmmm</del>       | 3304               |                 | 164.870       |
|                            | MAGNESIUM (MG) <del>ammmmmmmmmmmmmmmmm</del>     | 3094               |                 | 254.512       |
|                            | CHLORIDE (CL) <del>ammmmmmmmmmmmmmmmm</del>      | 0                  |                 | 0.0           |
|                            | IRON (FE) <del>ammmmmmmmmmmmmmmmm</del>          | 5                  |                 | 0.089         |
|                            | CARBONATE (CO3) <del>ammmmmmmmmmmmmmmmm</del>    | 0                  |                 | 0.0           |
|                            | BICARBONATE (HCO3) <del>ammmmmmmmmmmmmmmmm</del> | 979                |                 | 16.046        |
|                            | SULFATE (SO4) <del>ammmmmmmmmmmmmmmmm</del>      | 3358               |                 | 69.947        |
|                            | CHLORIDE (CL) <del>ammmmmmmmmmmmmmmmm</del>      | 81600              |                 | 2307.578      |
|                            | SILICA (SIO2) <del>ammmmmmmmmmmmmmmmm</del>      | 0                  |                 | 0.0           |
|                            | STRONTIUM (SR) <del>ammmmmmmmmmmmmmmmm</del>     | 0                  |                 | 0.0           |
|                            | TOTAL DISSOLVED SOLIDS                           | 137880             |                 |               |
| PH AT 20 DEG C             |                                                  | 5.21               |                 |               |
| TOTAL ALKALINITY           |                                                  | 0 PPM AS CaCO3     |                 |               |
| TOTAL HARDNESS             |                                                  | 20984 PPM AS CaCO3 |                 |               |

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TABLE 7  
WATER ANALYSIS

| MIXTURE OF 50 PERCENT JB-3 |  | CALCULATED      |              | MEQ PER LITER |
|----------------------------|--|-----------------|--------------|---------------|
| CONSTITUENTS               |  | 50 PERCENT LM-3 | PPM          |               |
| SODIUM + POTASSIUM (NA+K)  |  | 43455           |              | 1333.973      |
| CALCIUM (CA)               |  | 2940            |              | 146.705       |
| MAGNESIUM (MG)             |  | 3526            |              | 290.049       |
| BARIUM (BA)                |  | 0               |              | 0.0           |
| IRON (FE)                  |  | 6               |              | 0.107         |
| CARBONATE (CO3)            |  | 0               |              | 0.0           |
| BICARBONATE (HCO3)         |  | 1093            |              | 17.750        |
| SULFATE (SO4)              |  | 3615            |              | 75.300        |
| CHLORIDE (CL)              |  | 79250           |              | 2435.642      |
| SILICA (SIO2)              |  | 0               |              | 0.0           |
| STRONTIUM (SR)             |  | 0               |              | 0.0           |
| TOTAL DISSOLVED SOLIDS     |  | 133875          |              |               |
| PH AT 20 DEG C             |  | 7.03            |              |               |
| TOTAL ALKALINITY           |  | 0               | PPM AS CaCO3 |               |
| TOTAL HARDNESS             |  | 21354           | PPM AS CaCO3 |               |

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LM-3

MEQ PER LITER

1507.464

123.542

325.503

D.C.

0.125

0.0

19-439

30-654

2163.707

0-0

00

129869

7-14

0 ppm  $\text{As}_2\text{CO}_3$

22719 PPM AS CACTO3

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|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

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TABLE 93  
WATER ANALYSIS

| CALCULATED                 |                 |              | MED PER LITER |  |
|----------------------------|-----------------|--------------|---------------|--|
| MIXTURE OF 30 PERCENT JB-8 | 70 PERCENT LM-3 | PPM          |               |  |
| CONSTITUENTS               |                 |              |               |  |
| SODIUM + POTASSIUM (NA+K)  | 39685           |              | 1721.00+      |  |
| CALCIUM (CA)               | 2212            |              | 110.379       |  |
| MAGNESIUM (MG)             | 4389            |              | 361.039       |  |
| BARIUM (BA)                | 0               |              | 0.0           |  |
| IRON (FE)                  | 8               |              | 0.143         |  |
| CARBONATE (CO3)            | 0               |              | 0.0           |  |
| BICARBONATE (HCO3)         | 1289            |              | 21.127        |  |
| SULFATE (SO4)              | 4129            |              | 36.007        |  |
| CHLORIDE (CL)              | 74150           |              | 2091.771      |  |
| SILICA (SiO2)              | 0               |              | 0.0           |  |
| STRONTIUM (SR)             | 0               |              | 0.0           |  |
| TOTAL DISSOLVED SOLIDS     | 125862          |              |               |  |
| PH AT 20 DEG C             | 7.26            |              |               |  |
| TOTAL ALKALINITY           | 0               | PPM AS CaCO3 |               |  |
| TOTAL HARDNESS             | 23588           | PPM AS CaCO3 |               |  |

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TABLE 10  
WATER ANALYSIS

CALCULATED

| MIXTURE OF 20 PERCENT     | JR-8 | 80 PERCENT         | LM-3          |  |
|---------------------------|------|--------------------|---------------|--|
| CONSTITUENTS              |      | PPM                | MEG PER LITER |  |
| SODIUM + POTASSIUM (NA+K) |      | 37600              | 1643.544      |  |
| CALCIUM (CA)              |      | 1843               | 92.215        |  |
| MAGNESIUM (MG)            |      | 4821               | 396.575       |  |
| POTASSIUM (K)             |      | 0                  | 0.0           |  |
| IRON (FE)                 |      | 10                 | 0.179         |  |
| CARBONATE (CO3)           |      | 0                  | 0.0           |  |
| BICARBONATE (HCO3)        |      | 1392               | 22.315        |  |
| SULFATE (SO4)             |      | 4336               | 91.360        |  |
| CHLORIDE (CL)             |      | 71600              | 2019.836      |  |
| SILICA (SiO2)             |      | 0                  | 0.0           |  |
| FLUORIDE (F)              |      | 0                  | 0.0           |  |
| TOTAL DISSOLVED SOLIDS    |      | 121857             |               |  |
| PH AT 20 DEG C            |      | 7.37               |               |  |
| TOTAL ALKALINITY          |      | 0 PPM AS CaCO3     |               |  |
| TOTAL HARDNESS            |      | 24457 PPM AS CaCO3 |               |  |

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TABLE 11  
WATER ANALYSIS

| CALCULATED                |            |                    |            |          |
|---------------------------|------------|--------------------|------------|----------|
| MIXTURE OF                | 10 PERCENT | JB-8               | 90 PERCENT | LM-3     |
| CONSTITUENTS              |            |                    |            |          |
| PPM                       |            |                    |            |          |
| SODIUM + POTASSIUM (NA+K) |            |                    | 35915      | 1861.174 |
| CALCIUM (CA)              |            |                    | 1434       | 74.052   |
| MAGNESIUM (MG)            |            |                    | 5253       | 432.112  |
| BARIUM (BA)               |            |                    | 0          | 0.0      |
| IRON (FE)                 |            |                    | 11         | 0.197    |
| CARBONATE (CO3)           |            |                    | 0          | 0.0      |
| BICARBONATE (HCO3)        |            |                    | 1495       | 24.503   |
| SULFATE (SO4)             |            |                    | 4643       | 96.714   |
| CHLORIDE (CL)             |            |                    | 69050      | 1947.900 |
| SILICA (SIO2)             |            |                    | 0          | 0.0      |
| STRONTIUM (SR)            |            |                    | 0          | 0.0      |
| TOTAL DISSOLVED SOLIDS    |            |                    | 117851     |          |
| PH AT 20 DEG C            |            | 7.49               |            |          |
| TOTAL ALKALINITY          |            | 0 PPM AS CaCO3     |            |          |
| TOTAL HARDNESS            |            | 25326 PPM AS CaCO3 |            |          |

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TABLE 12  
WATER ANALYSIS

| MEASURED PH AND TOTAL ALKALINITY VALUES<br>FOR MIXTURES OF JB-8 AND LM-3 WATERS |      |                     |                                                  |
|---------------------------------------------------------------------------------|------|---------------------|--------------------------------------------------|
| PERCENT COMPOSITION<br>(VOLUME)                                                 | LM-3 | PH AT<br>20.0 DEG C | TOTAL<br>ALKALINITY<br>(AS PPM $\text{CaCO}_3$ ) |
| 100                                                                             | 0    | 6.45                | 0                                                |
| 90                                                                              | 10   | 6.57                | 0                                                |
| 80                                                                              | 20   | 6.68                | 0                                                |
| 70                                                                              | 30   | 6.80                | 0                                                |
| 60                                                                              | 40   | 6.91                | 0                                                |
| 50                                                                              | 50   | 7.03                | 0                                                |
| 40                                                                              | 60   | 7.14                | 0                                                |
| 30                                                                              | 70   | 7.26                | 0                                                |
| 20                                                                              | 80   | 7.37                | 0                                                |
| 10                                                                              | 90   | 7.49                | 0                                                |
| 0                                                                               | 100  | 7.60                | 0                                                |

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TABLE 13  
WATER ANALYSIS

CALCIUM CARBONATE STABILITY INDEX  
JM-8 - LM-3 WATERS  
SI = PH-PCA-PALK-K

| WATER ANALYSIS |      | K        |          | CA   | PCA  | HCO3 | PALK | PH   | SI       |          |
|----------------|------|----------|----------|------|------|------|------|------|----------|----------|
| (100 (50 F))   |      | 20 DEG C | 20 DEG C | BPM  |      | PPM  |      |      | 20 DEG C | 20 DEG C |
| 1              | LM-3 | 2.5504   | 3.22     | 4760 | 0.93 | 567  | 2.03 | 6.45 | 0.27     | 0.27     |
| 2              | LM-3 | 2.7070   | 3.24     | 4396 | 0.96 | 670  | 1.96 | 6.57 | 0.41     | 0.41     |
| 3              | LM-3 | 2.7436   | 3.25     | 4032 | 1.00 | 773  | 1.90 | 6.68 | 0.53     | 0.53     |
| 4              | LM-3 | 2.8902   | 3.26     | 3668 | 1.04 | 876  | 1.84 | 6.80 | 0.66     | 0.66     |
| 5              | LM-3 | 2.9363   | 3.27     | 3304 | 1.08 | 979  | 1.79 | 6.91 | 0.76     | 0.76     |
| 6              | LM-3 | 2.9833   | 3.28     | 2940 | 1.13 | 1083 | 1.75 | 7.03 | 0.86     | 0.86     |
| 7              | LM-3 | 2.9300   | 3.30     | 2576 | 1.19 | 1186 | 1.71 | 7.14 | 0.93     | 0.93     |
| 8              | LM-3 | 2.9769   | 3.32     | 2212 | 1.26 | 1289 | 1.68 | 7.26 | 1.00     | 1.00     |
| 9              | LM-3 | 2.9233   | 3.34     | 1848 | 1.34 | 1392 | 1.64 | 7.37 | 1.05     | 1.05     |
| 10             | LM-3 | 2.8699   | 3.36     | 1484 | 1.43 | 1495 | 1.61 | 7.49 | 1.09     | 1.09     |
| 11             | LM-3 | 2.8165   | 3.37     | 1120 | 1.55 | 1598 | 1.58 | 7.60 | 1.09     | 1.09     |

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TABLE 14  
WATER ANALYSIS

CALCIUM SULFATE STABILITY  
J1-8 - LM-3 WATERS  
KSPA = (CA MOLE/LITER) (SO4 MOLE/LITER)

| CA<br>MOL/L | SO4<br>MOL/L | KSPA      | CHLORIDE<br>PPM | KSPC<br>20 DEG C | REMARKS             | OP1-D CASO4<br>PPM |
|-------------|--------------|-----------|-----------------|------------------|---------------------|--------------------|
| 0.11374     | 0.02426      | 0.0028807 | 92000           | 0.0029976        | NO CASO4 DEPOSITION |                    |
| 0.10900     | 0.02593      | 0.0029538 | 89450           | 0.0030107        | NO CASO4 DEPOSITION |                    |
| 0.10900     | 0.00961      | 0.0029784 | 86900           | 0.0030209        | NO CASO4 DEPOSITION |                    |
| 0.09152     | 0.03228      | 0.0029543 | 84350           | 0.0030274        | NO CASO4 DEPOSITION |                    |
| 0.03244     | 0.03495      | 0.0028817 | 81800           | 0.0030298        | NO CASO4 DEPOSITION |                    |
| 0.07335     | 0.03753      | 0.0027505 | 79250           | 0.0030273        | NO CASO4 DEPOSITION |                    |
| 0.06427     | 0.04031      | 0.0025907 | 76700           | 0.0030193        | NO CASO4 DEPOSITION |                    |
| 0.05519     | 0.04298      | 0.0023722 | 74150           | 0.0030052        | NO CASO4 DEPOSITION |                    |
| 0.04611     | 0.04565      | 0.0021052 | 71600           | 0.0029844        | NO CASO4 DEPOSITION |                    |
| 0.03703     | 0.04833      | 0.0017896 | 69050           | 0.0029565        | NO CASO4 DEPOSITION |                    |
| 0.02714     | 0.05101      | 0.0014254 | 66500           | 0.0029216        | NO CASO4 DEPOSITION |                    |

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TABLE 15  
WATER ANALYSIS

BARIUM SULFATE STABILITY  
J8-3 - LM-3 WATERS  
KSP = (BA MOL/L) (SO4 MOL/L)

| STATION | DATE | TIME | TEMP | PH   | BA<br>MOL/L | SO4<br>MOL/L | KSP (X10-3) | CHLORIDE<br>PPM | KSPC (X10-9)<br>20 DEG C | REMARKS             | PFT-3 BASO4<br>PPM |
|---------|------|------|------|------|-------------|--------------|-------------|-----------------|--------------------------|---------------------|--------------------|
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.02426      | 0.0         | 92000           | 16.84868                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.02693      | 0.0         | 89450           | 16.50607                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.02901      | 0.0         | 86900           | 16.16209                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.03228      | 0.0         | 84350           | 15.81623                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.03496      | 0.0         | 81800           | 15.46731                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.03763      | 0.0         | 79250           | 15.11473                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.04031      | 0.0         | 76700           | 14.75767                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.04298      | 0.0         | 74150           | 14.40194                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.04566      | 0.0         | 71600           | 14.02879                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.04833      | 0.0         | 69050           | 13.64789                 | NO BASO4 DEPOSITION |                    |
| 100     | 10-1 | 10-1 | 10-1 | 10-1 | 0.0         | 0.05101      | 0.0         | 66500           | 13.22797                 | NO BASO4 DEPOSITION |                    |

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TABLE 17  
WATER ANALYSIS

STICONTIUM SULFATE STABILITY  
J8-8 - LM-3 WATERS  
KSP = (SR MOL/L) (SO4 MOL/L)

SO4 MOL/L KSP(X10-3) CHLORIDE PPM KSPC(X10-7) 25DEG C REMARKS PPT-O SRSO4 PFM

0.0 0.0 0.0 92000 177.33934 NO SRSO4 DEPOSITION

0.0 0.0 0.0 89450 186.10477 NO SRSO4 DEPOSITION

0.0 0.0 0.0 86900 184.84308 NO SRSO4 DEPOSITION

0.0 0.0 0.0 84350 162.35010 NO SRSO4 DEPOSITION

0.0 0.0 0.0 81800 163.79344 NO SRSO4 DEPOSITION

0.0 0.0 0.0 79250 165.16202 NO SRSO4 DEPOSITION

0.0 0.0 0.0 76700 166.44279 NO SRSO4 DEPOSITION

0.0 0.0 0.0 74150 167.62236 NO SRSO4 DEPOSITION

0.0 0.0 0.0 71600 168.68510 NO SRSO4 DEPOSITION

0.0 0.0 0.0 69050 169.61330 NO SRSO4 DEPOSITION

0.0 0.0 0.0 66500 170.38678 NO SRSO4 DEPOSITION

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