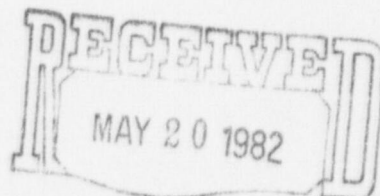




KERR-McGEE NUCLEAR CORPORATION

POST OFFICE BOX 218 • GRANTS, NEW MEXICO 87020

May 13, 1982



RADIATION PROTECTION BUREAU

Mr. G. W. Stewart
Radiation Protection Bureau
Environmental Improvement Division
P. O. Box 968
Santa Fe, New Mexico 87503

Dear Mr. Stewart:

Enclosed is our Tails Report for the First Quarter of 1982.

Respectfully,

KERR-McGEE NUCLEAR CORPORATION


Jerry Patterson

JP:hc

Enclosure

9803270391 820331
PDR ADOCK 04008905
C PDR

RR-McGEE NUCLEAR CORPORATION
Grants, New Mexico

TAILINGS REPORT

1st. Quarter, 1982

INPUT TO PONDS

	<u>Tons</u>	<u>Acre Ft.</u>
Solids to Ponds:	<u>509,451</u>	<u>-</u>
Mill solution to Ponds:	<u>611,005</u>	<u>450.1</u>
Water to Ponds:	<u>29,900</u>	<u>22.0</u>
Total	<u>640,905</u>	<u>472.1</u>

STATUS OF PONDS

<u>Pond No.</u>	<u>Evaporation Area Acres</u>	<u>Average Depth Feet</u>	<u>Solution Volume Acre Feet</u>
1	<u>24.1</u>	<u>1.8</u>	<u>43.4</u>
2	<u>33.6</u>	<u>1.9</u>	<u>63.8</u>
3	<u>12.2</u>	<u>1.6</u>	<u>19.5</u>
4	<u>Dry</u>	<u>--</u>	<u>--</u>
5	<u>Dry</u>	<u>--</u>	<u>--</u>
6	<u>Dry</u>	<u>--</u>	<u>--</u>
7	<u>9.9</u>	<u>4.2</u>	<u>41.8</u>
8	<u>28.2</u>	<u>7.4</u>	<u>207.7</u>
9	<u>23.6</u>	<u>2.0</u>	<u>47.0</u>
10	<u>1.6</u>	<u>1.4</u>	<u>2.2</u>
11	<u>28.3</u>	<u>4.2</u>	<u>117.7</u>
12	<u>22.4</u>	<u>5.5</u>	<u>124.3</u>
13	<u>16.8</u>	<u>3.7</u>	<u>62.3</u>
14	<u>20.8</u>	<u>3.7</u>	<u>77.2</u>
15	<u>24.1</u>	<u>5.1</u>	<u>122.9</u>
16	<u>19.5</u>	<u>5.3</u>	<u>102.6</u>
17	<u>19.5</u>	<u>6.2</u>	<u>121.1</u>
18	<u>27.2</u>	<u>1.3</u>	<u>36.7</u>
19	<u>34.8</u>	<u>5.5</u>	<u>192.1</u>
20	<u>29.0</u>	<u>4.4</u>	<u>128.5</u>
21	<u>21.0</u>	<u>4.9</u>	<u>103.7</u>
TOTAL	<u>396.6</u>	<u>4.1</u>	<u>1614.5</u>

POND ELEVATIONS

<u>Pond No.</u>	<u>Elevation, Ft.</u>	<u>Elevation Change, Ft.</u>
1	<u>7010.95</u>	<u>+ 0.22</u>
2	<u>6984.75</u>	<u>+ 0.75</u>
3	<u>6923.06</u>	<u>- 0.10</u>
4	<u>Dry</u>	<u>-</u>
5	<u>Dry</u>	<u>-</u>
6	<u>Dry</u>	<u>-</u>
7	<u>6994.38</u>	<u>- 0.25</u>
8	<u>7016.40</u>	<u>+ 0.80</u>
9	<u>6920.29</u>	<u>+ 0.73</u>
10	<u>6908.95</u>	<u>+ 0.13</u>
11	<u>6936.16</u>	<u>- 0.13</u>
12	<u>6929.55</u>	<u>+ 3.08</u>
13	<u>6921.51</u>	<u>- 0.23</u>
14	<u>6915.21</u>	<u>+ 0.08</u>
15	<u>6908.10</u>	<u>- 0.34</u>
16	<u>6901.16</u>	<u>+ 0.03</u>
17	<u>6896.51</u>	<u>+ 2.76</u>
18	<u>6888.35</u>	<u>+0.57</u>
19	<u>6884.72</u>	<u>+ 1.68</u>
20	<u>6877.83</u>	<u>+ 0.88</u>
21	<u>6901.64</u>	<u>+ 2.44</u>

Tailings Report (Continued) 1st. Quarter, 1982

RELATIVE EVAPORATION RATE

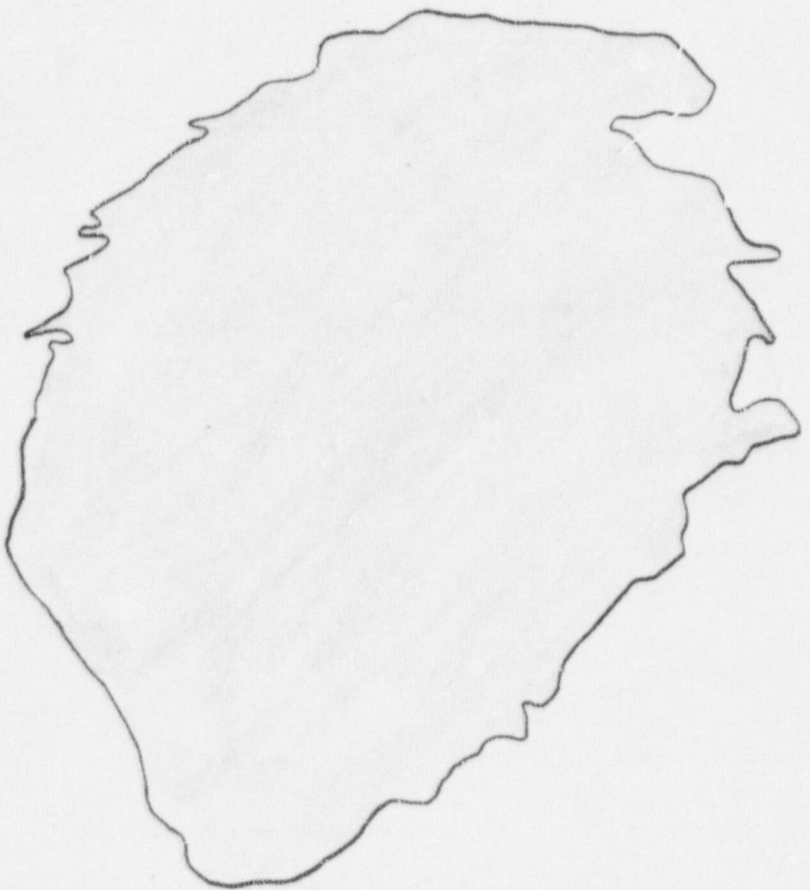
Evaporation	<u>5.0"</u>
Precipitation	<u>2.2"</u>
Relative Evaporation	<u>2.8"</u>

OBSERVATION WELLS - WATER ELEVATION

<u>Well</u>	<u>Collar Elevations</u>	<u>Elevation - Ft.</u>	<u>Change - Ft.</u>
A-1	6920.7	<u>6914.3</u>	<u>+ 0.10</u>
B-2	6923.4	<u>6918.5</u>	<u>- 0.40</u>
C-3	6927.8	<u>6920.0</u>	<u>+ 0.20</u>
D-4	6929.4	<u>6918.2</u>	<u>+ 0.20</u>
E-5	6923.2	<u>6916.8</u>	<u>+ 0.10</u>
44	6922.5	<u>6817.0</u>	<u>- 0.90</u>

OBSERVATION WELLS - SOLUTION ASSAYS

<u>Well</u>	<u>U, mg/l</u>	<u>Cl, mg/l</u>	<u>TDS, mg/l</u>	<u>pH</u>	<u>Radium, pCi/l</u>
A-1	<u>.11</u>	<u>3577</u>	<u>19098</u>	<u>6.57</u>	<u>3.4</u>
B-2	<u>.03</u>	<u>2745</u>	<u>12374</u>	<u>3.78</u>	<u>2.3</u>
C-3	<u>.02</u>	<u>2978</u>	<u>14038</u>	<u>4.01</u>	<u>3.2</u>
D-4	<u>.09</u>	<u>2628</u>	<u>8288</u>	<u>4.59</u>	<u>12.2</u>
E-5	<u>.09</u>	<u>2072</u>	<u>8890</u>	<u>7.88</u>	<u>.80</u>
44	<u>.04</u>	<u>48</u>	<u>1682</u>	<u>7.94</u>	<u>.74</u>
Decant Pond	<u>14.3</u>	<u>2457</u>	<u>57012</u>	<u>1.46</u>	<u>4386</u>



KERR-MCGEE NUCLEAR - POND #1

Solution Elevation 7010.95
Average Depth 1.8 Ft.

Solution Area 24.1 Ac.
Solution Volume 43.4 Ac.Ft.

Date April 2, 1982



KERR-MCGEE NUCLEAR - POND #2

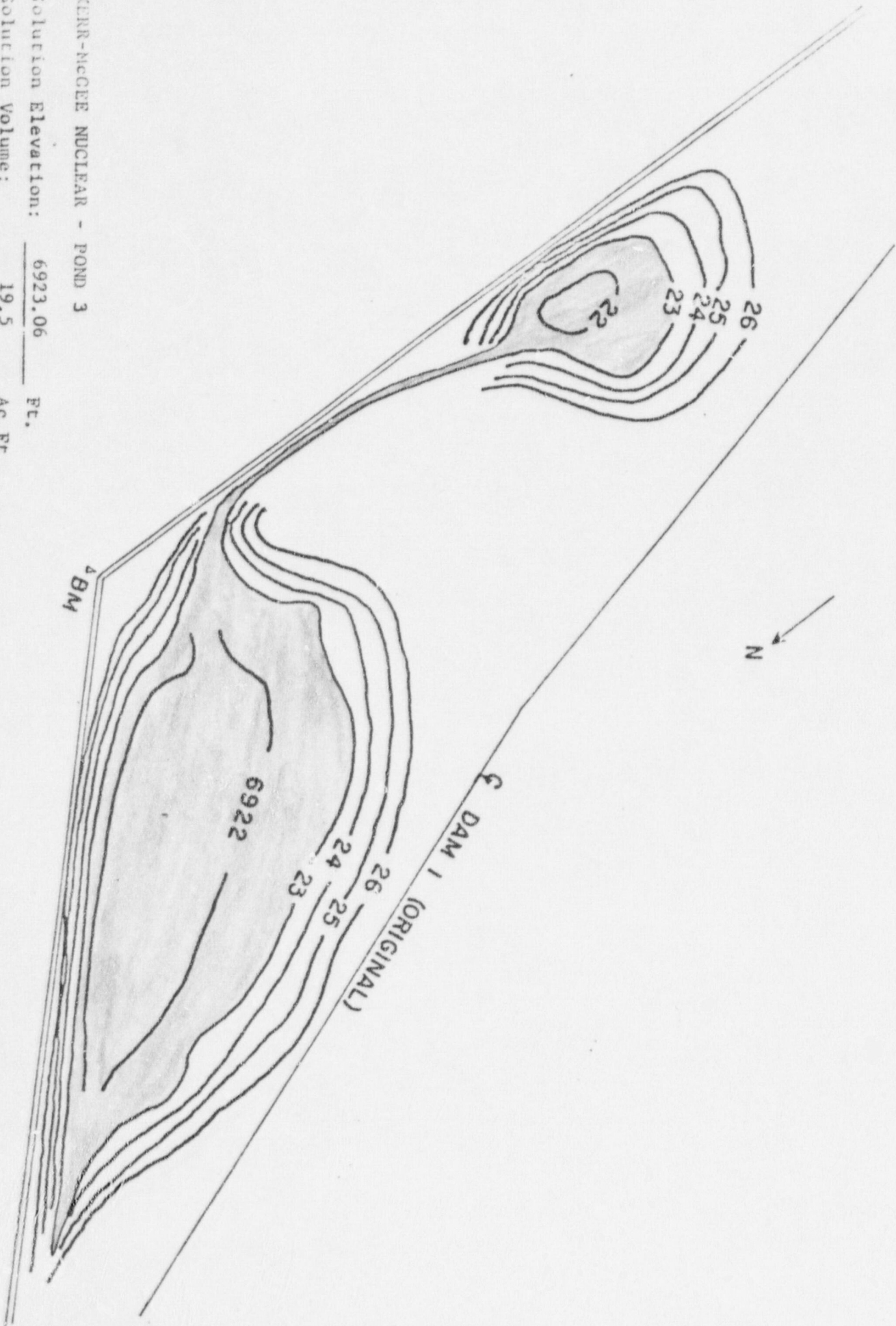
Solution Elevation	<u>6984.75</u>
Average Depth	<u>1.9 Ft.</u>
Solution Area	<u>33.6 Ac.</u>
Solution Volume	<u>63.8 Ac.Ft.</u>

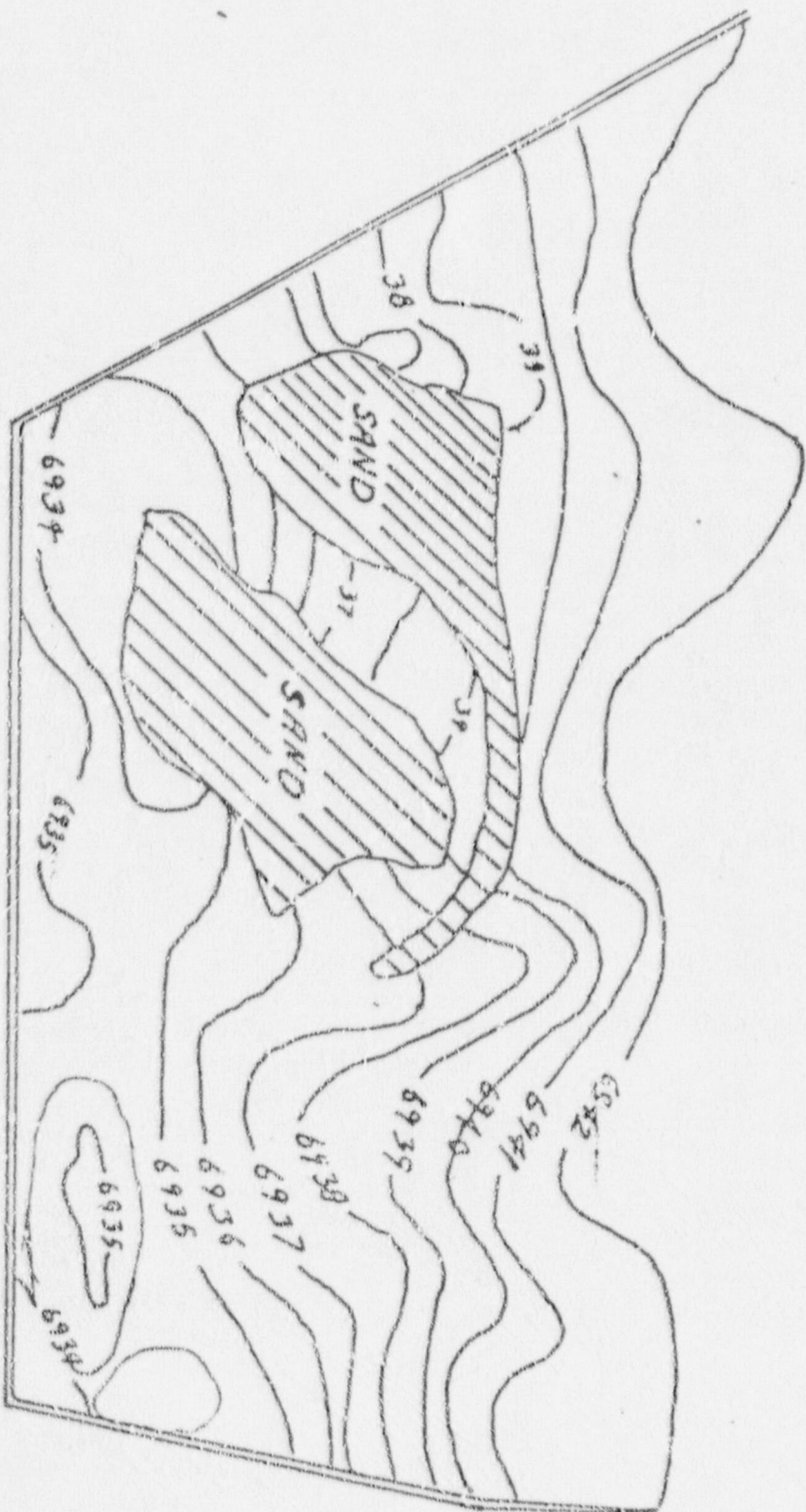
Date April 2, 1982

KERR-MCGEE NUCLEAR - POND 3

Solution Elevation:	6923.06	Ft.
Solution Volume:	19.5	Ac.Ft.
Evaporation Area:	12.2	Ac.

Date: April 2, 1982





KERR-MCCLE NUCLEAR CORP., Pond No. 4

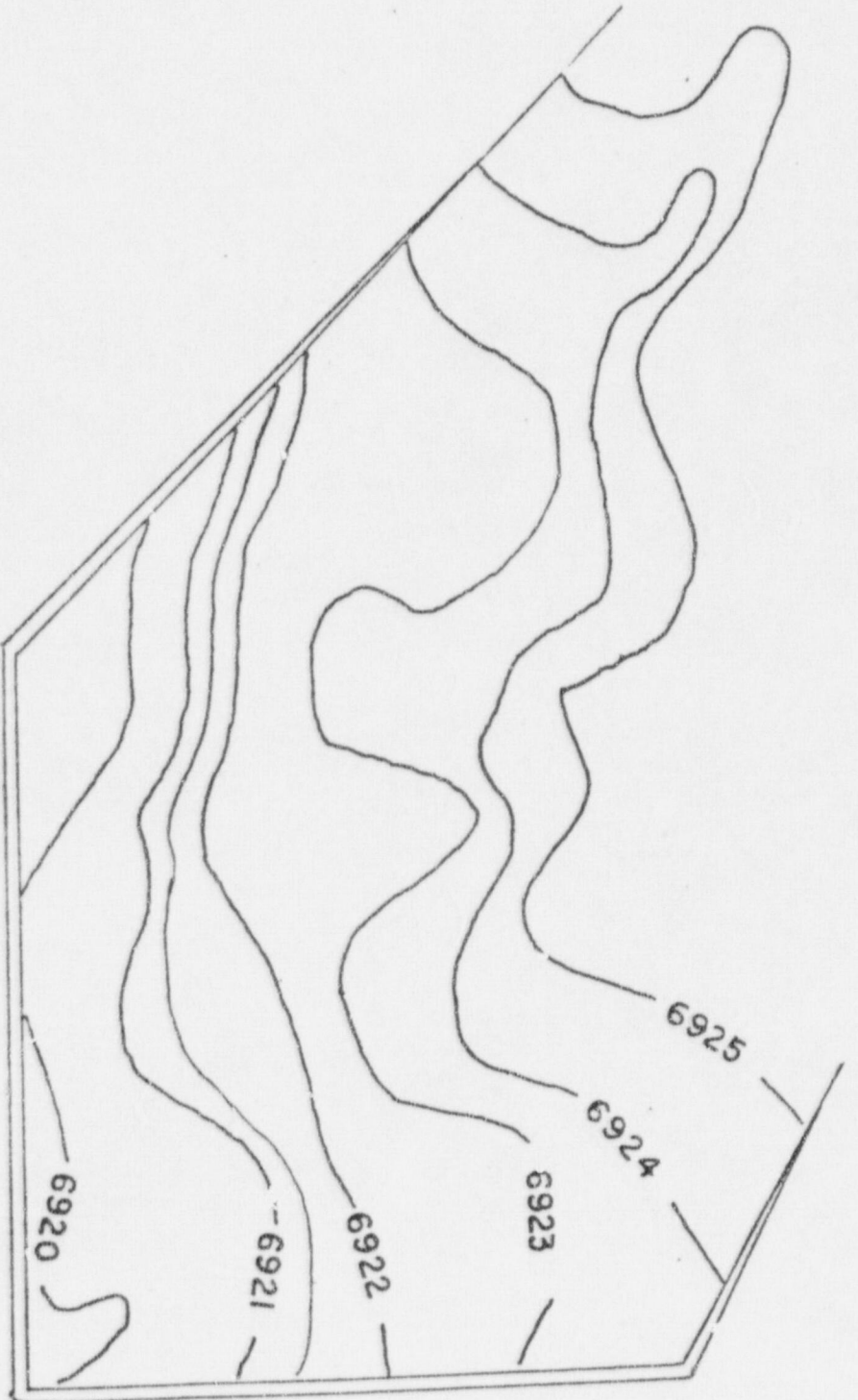
Solution Elevation: DRY

Average Depth:

Solution Area Acres

Solution Volume: Acre Ft.

Date:



KERR-MCGEE NUCLEAR CORPORATION POND NO. 6

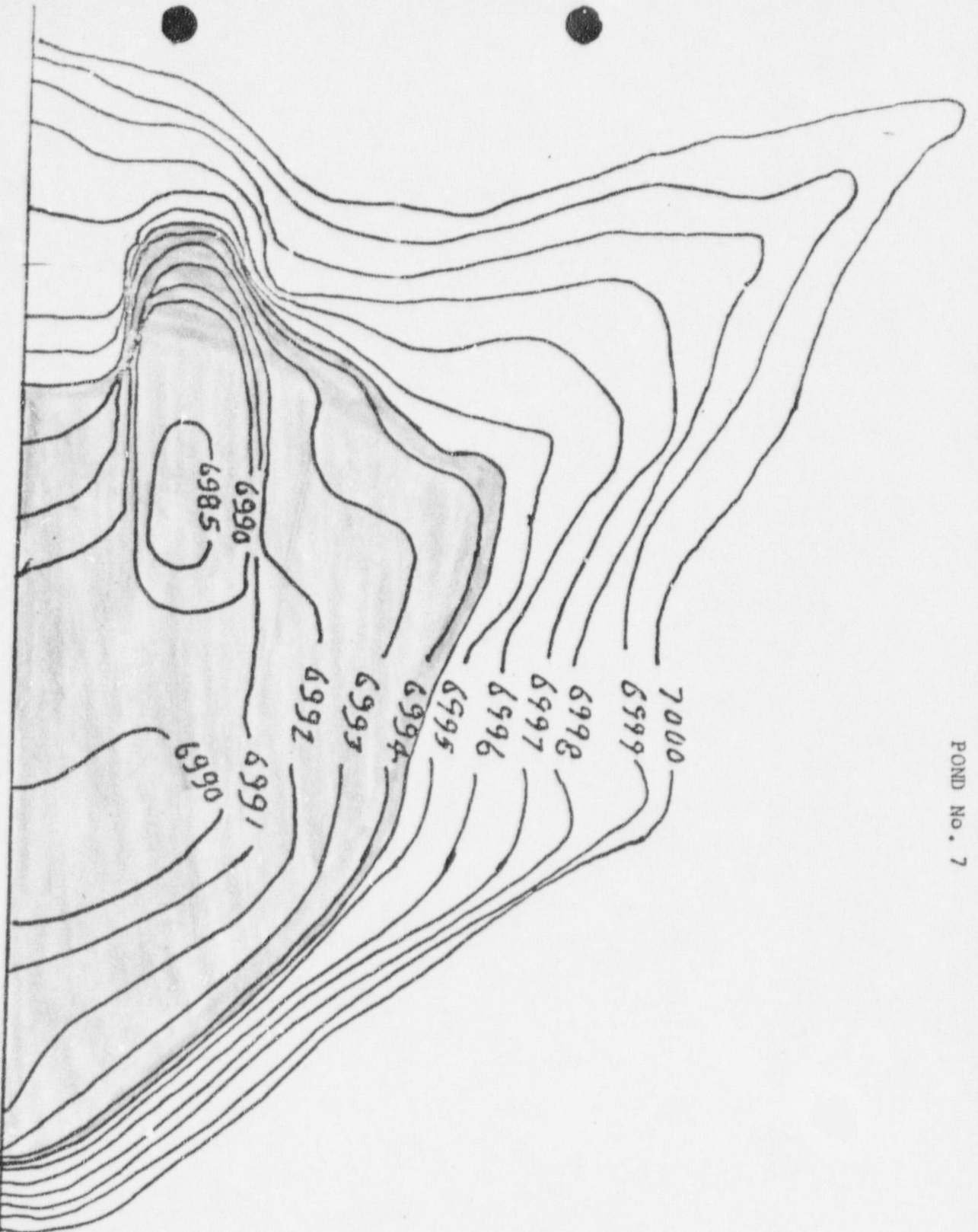
Solution Elevation DRY

Average Depth Ft.

Solution Area Acres

Solution Volume Acre Ft.

Date



KERR-MCGEE NUCLEAR - POND 7

Solution Elevation 6994.38

Average Depth 4.2 Ft.

Solution Area 9.9 Acres

Solution Volume 41.8 Acre/Ft.

Date April 2, 1982



KERR-MCGEE NUCLEAR - POND NO. 8

Solution Elevation 7016.4

Average Depth 7.4 Ft.

Solution Area 28.2 Acres

Solution Volume 207.7 Acre Feet

Date April 2, 1982