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Prepared For:

**WESTERN NUCLEAR, INC.**  
**Jeffrey City, Wyoming**

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**SPLIT ROCK CORRELATION RESULTS  
AND  
SCOPING SURVEY**

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## 1.0 INTRODUCTION

During the fall of 1995, a comprehensive radiological scoping survey was initiated to collect data necessary to delineate the lateral and vertical extent of contamination at the Split Rock Site, and to develop a radiological correlation between external gamma radiation exposure rate measurements and  $^{226}\text{Ra}$  concentrations in soil. The scoping and correlation surveys were conducted using a protocol that had been developed during 1993-1995 at the WNI Sherwood project site near Wellpinit, Washington, that was subsequently described in a December 1995 proposed radiological verification program submitted to NRC.

In designing this program, the following five key objectives were identified:

1. Determine the background concentrations of  $^{226}\text{Ra}$ ,  $^{230}\text{Th}$ , and U-nat for the site soils.
2. Develop a correlation between external gamma radiation measurements and  $^{226}\text{Ra}$  concentrations in site soils.
3. Determine if an association exists between  $^{226}\text{Ra}$  and  $^{230}\text{Th}$ , and  $^{226}\text{Ra}$  and U-nat, such that cleanup of soils having excess  $^{226}\text{Ra}$  results in any necessary cleanup of  $^{230}\text{Th}$  or U-nat.
4. Determine the approximate lateral and vertical extent of contaminated soils.



5. Assimilate the information obtained from the first four objectives into a comprehensive radiological verification program which will result in the collection of sufficient verification data to allow for the release of all areas outside of the reclamation cover system, for unrestricted use.

The Split Rock Mill Site proposed radiological verification program was designed to demonstrate final compliance with applicable regulatory standards and guidance regarding cleanup of by-product materials, e.g., windblown tailing. The verification program was submitted to the Nuclear Regulatory Commission (NRC) on December 15, 1995. The document included a narrative of the relevant site history, a description of the technical considerations and design elements which formed the basis for the program design, and the procedures which would be used to demonstrate radiological compliance of affected areas not within the boundary of the reclamation cover system. The intent of the December, 1995, submittal was to secure NRC approval of the radiological verification program proposed by Western Nuclear, Inc. (WNI), prior to the anticipated March, 1996, promulgation of the NRC "15 mrem" standard. This NRC approval of the December, 1995, submittal would therefore grandfather WNI from purview of the forthcoming "15 mrem" standard.

This report describes how these objectives were met, presents the results of the 1995 comprehensive scoping survey and subsequent analysis of the data, and identifies areas where further investigation is warranted.

## 1.1 Data Quality Objectives

All data contained in this report were collected in strict observance of NRC recommended DQOs described in the December, 1995 submittal, and which are repeated below:

1. sufficient data should be obtained from a site review and scoping survey to clearly delineate areas of potential contamination;
2. all radiological verification data should be obtained using methods which are reliable, reproducible and operator independent;
3. evaluation of radiological data obtained in support of compliance demonstration should be statistically based and defensible;
4. surveys should be performed at a frequency and density sufficient to adequately demonstrate compliance; and
5. periodic performance checks should be performed on both field survey equipment and laboratory analytic results to ensure continued data quality.

## 2.0 DETERMINATION OF BACKGROUND

A total of 15 locations were selected as sites to sample for background constituents. These locations are shown in Figure 1. The sites were selected at locations outside of the granite formations which surround the Split Rock Tailing Impoundment to minimize the potential of obtaining contaminated samples.

Each of the sites were sampled in the 0- to 6-inch increment, and 5 of the 15 locations were sampled at the 6- to 12-inch increment for a total of 21 samples. The rationale behind occasional sampling of the 6- to 12-inch increment was to periodically compare this increment to the surface 0- to 6-inch increment to demonstrate that the surface sample was not contaminated. The results of the radiochemical analyses are provided in Table 1.

In reviewing the laboratory results, background surface samples 1 and 2 were qualified as anomalous. These anomalous samples were not used to determine background concentrations since their inclusion would bias the average upward. Therefore, background concentrations for the constituents of interest were based on the mean of the remaining 19 samples. The arithmetic background mean values are as follows:

U-nat =	2.1 pCi/g
Th-230 =	1.3
Ra-226 =	1.0

As shown in Table 1, sample adequacy analyses were run in accordance with NUREG/CR-5849 to determine if sufficient data were obtained to support these values as the mean background concentrations. The results of these analyses indicate that

sufficient data were obtained even when samples BS-1 and BS-2-0-6 are eliminated from the data set.

## **2.1 Unexpected Results**

In an effort to fill out the data set by replacing anomalous samples 1 and 2 with two non-anomalous background samples, two new locations were sampled. The location of the new samples was in the general vicinity of the original samples (i.e., north of the impoundment and outside of the rocks) but at a significant distance from the original samples. The results on the new samples were similar in that they also showed elevated radionuclide concentrations. As discussed in Section 5.1.2, it is apparent that these elevated concentrations must be evaluated further.

## **2.2 Summary**

Sufficient data have been collected to establish background radionuclide concentrations. However, a region north of the tailing impoundment and outside of the granite formations has been identified as anomalous and will likely require additional scoping studies.

### 3.0 GAMMA-RADIUM CORRELATION

Eighty-eight grids were soil sampled and the laboratory determined  $^{226}\text{Ra}$  concentration was correlated against the external gamma radiation measurements taken from the corresponding grids. These gamma radium correlations were then used to determine the action levels to be used for cleanup and final verification.

#### 3.1 Integrated Correlation

Gamma measurements were taken in each of the correlation grids using each of 5 instruments by the integrated survey method described in Section 3.4.1 of the Split Rock Radiological Verification Program (WNI, 1995). The corrected gamma measurements for each instrument were averaged together for each grid. The mean gamma measurement and the corresponding laboratory results are given in Table 2.

The corrected-mean correlation was developed by linear regression and the 90% confidence and prediction limits were established. The action level at the lower 90% prediction limit corresponding to 6.0 pCi/g  $^{226}\text{Ra}$  (5 pCi/g above the background average of 1.0 pCi/g) was determined to be 2,274 counts for a 150 second counting period, with an  $R^2$  value of 0.76. The correlation plot is provided in Figure 2.

The use of a statistical evaluation involving prediction limits requires the use of the lower 90% prediction limit in order to minimize the number of false negatives (i.e., where gamma results indicate a grid is "clean", but soil data show residual radionuclide concentrations exceed the applicable standard). The concept of minimizing false negatives is critical to the credibility of the program since confirmation samples will be taken in approximately 10% of the verification grids to demonstrate that the gamma



measurements successfully represented the population of residual radioactive materials in affected areas.

### **3.2. Composite Correlation**

The laboratory determined  $^{226}\text{Ra}$  concentrations were correlated against gamma measurements taken using the composite counting method described in Section 3.4.1 of the Split Rock Radiological Verification Program (WNI, 1995). The results of this correlation, shown in Figures 3 and 4, indicate an action level of 2,167 counts in 120 seconds for the #98631 instrument and 1,952 counts in 120 seconds for the #110644 instrument. The data are provided in Table 3.

### **3.3 Summary**

Radium-226 concentrations in soil were successfully correlated against external gamma radiation measurements at the Split Rock Site. This correlation, coupled with representative soil sampling, will be the basis upon which to proceed with final cleanup and verification.

#### 4.0 DETERMINATION OF ASSOCIATIONS

A total of 88 grids were sampled and analyzed for  $^{226}\text{Ra}$ ,  $^{230}\text{Th}$  and U-nat. These data were reviewed to determine if an association exists between  $^{226}\text{Ra}$  and  $^{230}\text{Th}$ ; and  $^{226}\text{Ra}$  and U-nat, such that cleanup of soils having excess  $^{226}\text{Ra}$  results in any necessary cleanup of  $^{230}\text{Th}$  and/or U-nat.

#### 4.1 Radium/Thorium Association

Upon review of laboratory data, one out of the 88 grids sampled has been identified where, under the strict definition, an association does not exist between  $^{226}\text{Ra}$  and  $^{230}\text{Th}$ . This grid, #3-923890, exhibited concentrations of  $U_{\text{total}}$ ,  $^{230}\text{Th}$ , and  $^{226}\text{Ra}$  at 11.96, 6.27, and 5.56 pCi/g, respectively, which would result in a  $^{226}\text{Ra}$  concentration of 6.04 pCi/g at 1000 years due to ingrowth of  $^{226}\text{Ra}$  from  $^{230}\text{Th}$ . However, two factors must be considered:

1. The U:Ra, U:Th and Ra:Th ratios support the definition of equilibrium (i.e., U:Ra and U:Th < 3:1 and Ra:Th  $\approx$  1). Therefore this grid does not represent a spill area, i.e., an area characterized by elevated  $^{230}\text{Th}$  without elevated  $^{226}\text{Ra}$ .
2. Even though this grid shows an apparent lack of association, there is a 90% probability that gamma surveys would identify this grid as requiring cleanup, in which case, the  $^{230}\text{Th}$  would be cleaned up as well. Note from Table 4 that the scoping surveys did in fact identify this grid as requiring cleanup.

Therefore, an association between  $^{226}\text{Ra}$  and  $^{230}\text{Th}$  has been adequately demonstrated for all areas of the Split Rock Site.

## 4.2 Radium/Uranium Association

In reviewing the uranium results, one non-typical case was identified:

One grid (#3-537506) was identified which exhibited a  $U_{\text{total}}$  concentration of 33.96 pCi/g with a  $^{226}\text{Ra}$  concentration of 4.90 pCi/g. Since this grid is clearly out of equilibrium, (i.e.,  $U_{\text{total}}:^{226}\text{Ra} > 6:1$ ) the standard of 30 pCi/g  $U_{\text{total}}$  above background applies and the grid is out of association. This grid is shown on Figure 5.

Based on process knowledge, it has been determined that the uranium grid in question is in an area of former ore stockpiling and high groundwater tables. It is known that some of the ores processed in the Split Rock Mill were identified as having high uranium concentrations and low daughter product concentrations. Further, borings in this sector show no contamination to depth, thereby eliminating the potential for soil contamination via groundwater. Consequently, soil in grid #3-537506 likely indicates an isolated area which will require 100% soil sampling since gamma surveys will not necessarily result in adequate cleanup of  $U_{\text{total}}$ .

## 4.3 Summary

One grid (#3-537506) was identified as being out of association between  $^{226}\text{Ra}$  and  $U_{\text{nat}}$ . It is likely that the area surrounding this grid will require 100% soil sampling since gamma surveys will not necessarily result in cleanup of  $U_{\text{nat}}$  to required levels. The

size of the area which will likely require 100% soil sampling will have to be approved by the NRC. This appears to be an isolated anomaly and only the immediate vicinity of grid #3-537506 needs to be verified with 100% soil sampling.

Only 1 out of 88 grids sampled was out of association for  $^{230}\text{Th}$ . However, given that This grid is in equilibrium and would have been cleaned up due to the conservative action limits of the gamma-radium correlation, it does not appear that this grid should constitute an area requiring 100% soil sampling.

The scoping survey has adequately demonstrated that the Split Rock Site, with the exception of the area adjacent to grid #3-537506 described above, can be cleaned up and verified using the gamma surveying procedures presented in the December 1995 submittal. Further, since such an association was demonstrated, it is proposed that all confirmation samples should be analyzed only for  $^{226}\text{Ra}$ .

## **5.0 SCOPING SURVEY**

Using the action limits established by the gamma-radium correlation, a comprehensive scoping survey was conducted to delineate the lateral and vertical extent of contamination at the Split Rock Site. The lateral extent was investigated using surface gamma measurements and laboratory analysis of surface soil samples. The vertical extent was investigated by laboratory analysis of soil samples taken from several borings to a depth of 10 feet.

Based on the results of the scoping survey, grid maps identifying grids which exceed the action limit of 2,274 counts for gamma measurements or 6.0 pCi/g for soil samples were prepared. The failing grids are plotted in red and the passing grids are plotted in green on the drawings which accompany this report.

### **5.1 Lateral Extent**

#### **5.1.1 Vicinity of Tailing Impoundment**

As shown on Drawing 1, the major portion of failing grids are to the northeast, with some concentration of grids on either side of the main access from the haul road to the office. Other elevated grids can be seen scattered around the periphery. All scoping data used to generate the drawings are provided in Table 4.

Of particular note, is the fact that the extent of contamination in the areas beyond the northeast saddle and across the road in the northwest valley were not bounded. Additionally, since no data were obtained in the areas occupied by the rock crushing



operations located to the north of the impoundment, characterization, cleanup and final verification will be required for these areas.

### **5.1.2 North Area**

As discussed in Section 2.2, four samples, taken as part of the background characterization, have been identified as exhibiting elevated radionuclide concentrations. These sample locations are shown on Figure 6. While all of these samples exhibit radionuclide concentrations below the regulatory limits, it is likely that additional scoping surveys will be conducted to determine if any areas exist which exceed the regulatory limits.

### **5.1.3 Estimated Cleanup Area**

Based on the scoping surveys and a rough overage to account for areas beyond the northeast saddle, it is estimated that over 170 acres will require cleanup and verification. This 170 acre area is shown outlined on Figure 6. This does not include any estimate for areas occupied by the crushing operation, the area west of the road in the northwest valley, or in the north area outside of the rock outcrops.

## **5.2 Vertical Extent**

A total of 15 borings were made at locations around the site as shown in Figure 7. The borings were sampled in 1 foot increments to a depth of 10 feet. The analytical data for the borings are given in Tables 5 through 19.

From these data it was observed that borings 7, 8, and 9 show  $^{226}\text{Ra}$  contamination above the limit to a depth of 1 foot. Borings 4, 6, 7, and 9 display elevated  $^{226}\text{Ra}$  and

<sup>230</sup>Th concentrations at depth, none of which exceed the limit. Borings 2, and 12 exhibit elevated U-total concentrations at depth, but again, not in excess of the limit.

Given these results, core sampling for contamination at depth does not appear to be necessary for final verification. It should be recognized however, that since elevated concentrations were observed at depth, the potential exists that isolated areas may be identified during cleanup where deeper excavation will be required.

### **5.3 Total Volume**

Based on the area estimate of 170 acres and an excavation depth of approximately 12 inches, the cleanup volume is estimated to be in excess of 270,000 cubic yards.

### **5.4 Summary**

The scoping survey has identified approximately 170 acres or 270,000 cubic yard of material to be cleaned up. This does not include any estimate for areas occupied by the crushing operation, the area west of the road in the northwest valley, or in the north area outside of the rock outcrops.

Careful consideration must be given to the sequencing of cleanup activities. In this regard, the following alternatives have been identified:

1. Contaminated material could be excavated then stockpiled and stabilized in place until such time as it could be disposed of in the ground water storage ponds. The obvious difficulty with this approach is the large volume of material; double-handling 270,000+ cubic yards would be very

- costly, as would stabilization. Further, future use of the ponds is unknown. It is not apparent that NRC would allow stockpiling of such a large volume of windblown tailing for an extended and indefinite period of time prior to final reclamation. Additionally, radiological verification may again be required.
2. Complete cover placement and then excavate a "hole" in the cover for disposal of contaminated soils. This does not seem reasonable now given that 270,000 cubic yards spread 1 foot thick covers 170 acres which is more than the estimate 128 acres of impoundment yet to be covered.
  3. A third alternative would be to wait until all reclamation is complete and the ground water storage ponds are ready to be filled, at which time, cleanup and verification of contaminated soils would begin and contaminated soils could be disposed of directly into the ground water storage ponds. The problem with this scenario is that it is unknown how long the ground water storage ponds will be in use, and WNI may be subjected to the pending 15 mrem requirements if progress is not made in pursuing and implementing an approved cleanup and verification plan.
  4. Due to the erosional dynamics of the site, it is apparent that final verification can be conducted only after all source material has been stabilized. Therefore, WNI might begin cleanup concurrent with cover placement this year in order to dispose of the 270,000 cubic yards that have been identified, and to obtain detailed knowledge of the vertical extent of contamination by pursuing contaminated horizons as they are exposed and identified. Once all areas impacted by windblown tailing have been remediated, and the windblown tailing sources stabilized, final verification could proceed and areas of redistributed tailing identified and

remediated. These additional materials would be excavated, stockpiled, and stabilized for eventual burial in the ground water storage ponds.

## 6.0 CONCLUSION

The data presented in this report demonstrates that WNI was successful in obtaining sufficient data to support the methods and procedures proposed in the December, 1995 submittal to NRC. The data presented included:

1. sufficient data to characterize background concentrations of the radionuclides of interest;
2. sufficient data to obtain a strong statistical correlation between external gamma radiation measurements and  $^{226}\text{Ra}$  concentrations in soil;
3. the determination that an association exists between  $^{226}\text{Ra}$  and  $^{230}\text{Th}$ , and  $^{226}\text{Ra}$  and  $U_{\text{total}}$  across the majority of the site, with only one isolated area which warrants further attention; and
4. the determination of the approximate lateral and vertical extent of contaminated soils with the exception of the eastern extent of the northeast valley, and the north area.

Based on the findings discussed in this report, the following actions are proposed:

1. additional scoping surveys will be performed in the spring of 1996 to delineate the extent of windblown tailing contamination east of the northeast saddle, and west of the road in the northwest valley;
2. additional scoping surveys will be performed in the spring of 1996 to investigate the elevated radionuclide concentrations observed in background samples 1 and 2;
3. the radiological verification program submitted in December 1995 will be amended to propose eliminating analysis for  $U_{total}$  and  $^{230}Th$  in confirmation samples;
4. the radiological verification program submitted in December 1995 will be amended to provide for 100% soil sampling in the area adjacent to the tailing impoundment in the vicinity of grid 3-537506; and
5. with the exception of the isolated grids shown on Figure 6, all areas south of the tailing impoundment and in the southwest valley will be determined to be clean and require no further verification of compliance with applicable radiological cleanup standards.

The data presented in this report provide the basis for approval of the WNI final radiological verification program as presented in the December, 1995, submittal to NRC, with the modifications described above.



TABLE 1. BACKGROUND SAMPLE RESULTS

Sample #	U-total	Th-230	Ra-226
BS-1-0-6*	2.211 ± 0.15	2.86 ± 0.19	3.83 ± 0.15
BS-2-0-6*	2.568 ± 0.171	1.78 ± 0.15	3.28 ± 0.12
BS-2-6-12*	1.199 ± 0.108	0.681 ± 0.092	0.754 ± 0.08
BS-1-0-6	3.764 ± 0.207	2.51 ± 0.16	4.38 ± 0.19
BS-2-0-6	1.552 ± 0.128	1.26 ± 0.11	2.34 ± 0.11
BS-2-6-12	1.011 ± 0.065	0.720 ± 0.081	0.556 ± 0.069
BS-3-0-6	1.722 ± 0.13	0.978 ± 0.097	1.178 ± 0.082
BS-4-0-6	3.114 ± 0.186	1.74 ± 0.13	1.249 ± 0.086
BS-4-6-12	2.325 ± 0.15	1.16 ± 0.11	0.904 ± 0.075
BS-5-0-6	4.24 ± 0.222	1.51 ± 0.12	1.16 ± 0.10
BS-6-0-6	2.386 ± 0.157	1.42 ± 0.11	0.879 ± 0.080
BS-6-6-12	2.017 ± 0.138	1.39 ± 0.12	0.954 ± 0.082
BS-7-0-6	2.566 ± 0.165	1.35 ± 0.12	0.990 ± 0.081
BS-8-0-6	2.386 ± 0.157	1.28 ± 0.11	1.124 ± 0.086
BS-8-6-12	2.295 ± 0.158	1.54 ± 0.12	1.200 ± 0.087
BS-9-0-6	1.257 ± 0.076	0.688 ± 0.082	0.556 ± 0.065
BS-10-0-6	1.06 ± 0.07	0.594 ± 0.078	0.515 ± 0.061
BS-10-6-12	1.361 ± 0.084	1.009 ± 0.095	0.614 ± 0.070
BS-11-0-6	1.466 ± 0.119	0.889 ± 0.092	0.588 ± 0.066
BS-12-0-6	1.298 ± 0.079	0.765 ± 0.084	0.632 ± 0.069
BS-13-0-6	3.457 ± 0.193	2.620 ± 0.17	1.540 ± 0.093
BS-14-0-6	2.575 ± 0.157	1.85 ± 0.14	1.146 ± 0.090
BS-15-0-6	1.557 ± 0.087	1.690 ± 0.13	1.784 ± 0.096
BS-16-0-6	1.311 ± 0.079	1.35 ± 0.12	1.295 ± 0.089
n	19	19	19
MEAN	2.07	1.29	0.99
S <sub>x</sub>	0.86	0.49	0.35
t	2.10	2.10	2.10
n <sub>b</sub>	18.98	15.74	13.81

SAMPLE ADEQUACY CALCULATED WITHOUT BS-1-0-6 AND BS-2-0-6

\* DENOTES NEW BACKGROUND SAMPLE

SAMPLE ADEQUACY CALCULATED IN ACCORDANCE WITH  
NUREG/CR-5849 pg. 8.15

$$n_B = \left[ \frac{t_{95.5\%,df} \cdot S_x}{0.2 \cdot x_B} \right]^2$$

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TABLE 2. INTEGRATED CORRELATION DATA

GRID ID	MEAN	
	GAMMA	Ra-226
1-089124	2133	2.590 ± 0.120
1-090125	2040	2.230 ± 0.120
1-091042	1836	0.903 ± 0.077
1-095130	2311	4.630 ± 0.150
1-100135	1852	0.968 ± 0.089
1-101136	1882	1.198 ± 0.088
1-129165	2199	2.620 ± 0.120
1-158195	2306	3.540 ± 0.140
1-159196	2150	2.070 ± 0.110
1-169206	2078	1.740 ± 0.110
1-170207	2556	8.210 ± 0.190
1-181140	1834	1.710 ± 0.096
1-202240	2007	2.120 ± 0.110
1-203241	2198	2.520 ± 0.110
1-206244	3111	9.140 ± 0.200
1-242208	1847	1.092 ± 0.079
1-310276	1765	1.073 ± 0.077
1-401356	3946	15.100 ± 0.250
1-511458	2367	3.580 ± 0.120
1-606548	1692	0.751 ± 0.073
1-625568	1650	0.825 ± 0.077
1-745686	1711	1.472 ± 0.088
1-859800	1670	1.070 ± 0.080
2-017002	1759	1.050 ± 0.079
2-065060	1661	1.145 ± 0.086
2-092086	2338	4.580 ± 0.150
2-107104	1871	1.154 ± 0.091
2-121114	1959	2.430 ± 0.110
2-140130	2138	3.280 ± 0.130
2-155150	2496	4.680 ± 0.140
2-165164	3356	10.510 ± 0.230
2-223200	3480	5.65 ± 0.16
2-268236	3531	8.63 ± 0.2
2-324298	3305	7.12 ± 0.18
2-387364	2886	9.37 ± 0.19
2-417400	3030	2.27 ± 0.12
2-465448	3068	5.98 ± 0.16
2-491470	2921	6.35 ± 0.17
2-544528	2585	4.26 ± 0.12
2-548576	3221	9.530 ± 0.200
2-549577	2722	5.270 ± 0.160
2-553581	2582	3.720 ± 0.130
2-554582	3074	8.060 ± 0.190
2-557585	3218	9.270 ± 0.200
2-561589	1842	1.126 ± 0.084
2-565593	1973	1.690 ± 0.100
2-566594	2016	1.970 ± 0.110
2-576604	2126	3.390 ± 0.130
2-578606	2313	2.430 ± 0.120
2-583611	2757	4.000 ± 0.140
2-584612	3065	4.370 ± 0.150

TABLE 2. INTEGRATED CORRELATION DATA

GRID ID	MEAN		
	GAMMA	Ra-226	
2-586614	2758	4.120 ±	0.130
2-606634	2262	1.640 ±	0.100
2-607635	2333	2.290 ±	0.110
2-608636	2427	2.800 ±	0.120
2-612640	2426	2.800 ±	0.120
2-613641	2713	6.380 ±	0.170
2-614642	2791	7.490 ±	0.190
2-616644	1862	1.500 ±	0.092
2-617645	2001	2.240 ±	0.110
2-618646	2585	6.430 ±	0.170
2-621649	2926	5.930 ±	0.170
2-629657	3122	12.500 ±	0.230
2-631659	2214	1.326 ±	0.062
2-634662	2388	1.870 ±	0.110
2-637665	2331	2.720 ±	0.130
2-638666	2033	3.000 ±	0.130
2-643671	1856	0.858 ±	0.076
2-649677	2604	4.800 ±	0.150
2-653646	2145	2.46 ±	0.11
2-767754	2323	3.87 ±	0.14
2-821810	2249	3.55 ±	0.13
2-927954	2712	5.690 ±	0.150
3-471438	2126	2.72 ±	0.11
3-537506	2602	4.9 ±	0.16
3-599568	2509	4.72 ±	0.15
3-729698	2200	6.07 ±	0.196
3-845812	3390	8.97 ±	0.19
3-923890	2749	5.56 ±	0.17
3-959954	2579	3.070 ±	0.120
3-971966	2308	5.780 ±	0.160
3-987982	2045	2.240 ±	0.110
4-211146	1852	1.558 ±	0.095
4-344278	1838	1.567 ±	0.094
4-449384	2161	1.308 ±	0.090
4-472408	1834	1.129 ±	0.088
4-599536	1781	1.274 ±	0.085
4-652633	1894	2.140 ±	0.110

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TABLE 3. COMPOSITE CORRELATION DATA

GRID ID	98631	110644	Ra-226
1-089124	1883	1661	2.590 ± 0.120
1-090125	2017	1839	2.230 ± 0.120
1-091042	1970	1736	0.903 ± 0.077
1-095130	1859	1646	4.630 ± 0.150
1-100135	1809	1685	0.968 ± 0.089
1-101136	2061	1810	1.198 ± 0.088
1-129165	2320	2078	2.620 ± 0.120
1-158195	1966	1812	3.540 ± 0.140
1-159196	1749	1567	2.070 ± 0.110
1-169206	2236	2044	1.740 ± 0.110
1-170207	2934	2581	8.210 ± 0.190
1-181140	1905	1725	1.710 ± 0.096
1-202240	1978	1791	2.120 ± 0.110
1-203241	2130	1978	2.520 ± 0.110
1-206244	2766	2518	9.140 ± 0.200
1-242208	1876	1771	1.092 ± 0.079
1-310276	2088	2014	1.073 ± 0.077
1-401356	4955	4489	15.100 ± 0.250
1-511458	2690	2449	3.580 ± 0.120
1-606548	2025	1926	0.751 ± 0.073
1-625568	1918	1706	0.825 ± 0.077
1-745686	1656	1442	1.472 ± 0.088
1-859800	1952	1762	1.070 ± 0.080
2-017002	2018	1938	1.050 ± 0.079
2-065060	1930	1708	1.145 ± 0.086
2-092086	2362	2071	4.580 ± 0.150
2-107104	2202	1982	1.154 ± 0.091
2-121114	2310	2085	2.430 ± 0.110
2-140130	2601	2270	3.280 ± 0.130
2-155150	2516	2180	4.680 ± 0.140
2-165164	3164	2868	10.510 ± 0.230
2-223200	2644	2255	5.65 ± 0.16
2-268236	3031	3244	8.63 ± 0.2
2-324298	2711	2297	7.12 ± 0.18
2-387364	2942	2731	9.37 ± 0.19
2-417400	2855	2683	2.27 ± 0.12
2-465448	2892	2373	5.98 ± 0.16
2-491470	2628	2126	6.35 ± 0.17
2-544528	2525	2111	4.26 ± 0.12
2-548576	3159	2830	9.530 ± 0.200
2-549577	2621	2334	5.270 ± 0.160
2-553581	2221	2150	3.720 ± 0.130
2-554582	2670	2512	8.060 ± 0.190
2-557585	2699	2525	9.270 ± 0.200
2-561589	1725	1554	1.126 ± 0.084
2-565593	2152	2018	1.690 ± 0.100
2-566594	2332	2157	1.970 ± 0.110
2-576604	2293	2238	3.390 ± 0.130
2-578606	2096	1836	2.430 ± 0.120
2-583611	2415	2237	4.000 ± 0.140
2-584612	2046	1997	4.370 ± 0.150

TABLE 3. COMPOSITE CORRELATION DATA

GRID ID	98631	110644	Ra-226
2-586614	2227	2006	4.120 ± 0.130
2-606634	1950	1849	1.640 ± 0.100
2-607635	2168	2081	2.290 ± 0.110
2-608636	2380	2106	2.800 ± 0.120
2-612640	1823	1698	2.800 ± 0.120
2-613641	2123	2014	6.380 ± 0.170
2-614642	2579	2294	7.490 ± 0.190
2-616644	1907	1820	1.500 ± 0.092
2-617645	2149	1981	2.240 ± 0.110
2-618646	2341	2205	6.430 ± 0.170
2-621649	2472	2368	5.930 ± 0.170
2-629657	3232	2939	12.500 ± 0.230
2-631659	1705	1658	1.326 ± 0.062
2-634662	1739	1622	1.870 ± 0.110
2-637665	2049	1927	2.720 ± 0.130
2-638666	2293	2116	3.000 ± 0.130
2-643671	1695	1701	0.858 ± 0.076
2-649677	2426	2300	4.800 ± 0.150
2-653646	2383	1836	2.46 ± 0.11
2-767754	2350	1855	3.87 ± 0.14
2-821810	2100	1659	3.55 ± 0.13
2-927954	2703	2464	5.690 ± 0.150
3-471438	2195	1955	2.72 ± 0.11
3-537506	2687	2475	4.9 ± 0.16
3-599568	2264	2023	4.72 ± 0.15
3-729698	2304	2149	6.07 ± 0.196
3-845812	3346	3070	8.97 ± 0.19
3-923890	2877	2478	5.56 ± 0.17
3-959954	2543	2349	3.070 ± 0.120
3-971966	2080	1850	5.780 ± 0.160
3-987982	2060	1866	2.240 ± 0.110
4-211146	1696	1652	1.558 ± 0.095
4-344278	1819	1795	1.567 ± 0.094
4-449384	1808	1673	1.308 ± 0.090
4-472408	2016	1846	1.129 ± 0.088
4-599536	1897	1752	1.274 ± 0.085
4-652633	1784	1687	2.140 ± 0.110

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**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226		Th_230		U_tot		Grid Status	Grid Id
09/22/95	RS-50 Integrated		1803							Verified	1-073026
09/22/95	RS-50 Integrated		1819							Verified	1-077028
09/22/95	RS-50 Integrated		1688							Verified	1-080030
09/22/95	RS-50 Integrated		1713							Verified	1-083032
09/22/95	RS-50 Integrated		1755							Verified	1-084034
09/26/95	RS-50 Integrated		1655							Verified	1-089040
12/29/95	Laboratory Analyses	J95-3		0.903 ± 0.077	1.100 ± 0.110	2.14 ± 0.14				Verified	1-091042
09/26/95	RS-50 Integrated		1830							Verified	1-091042
09/26/95	RS-20 Soil Sample	J95-3								Pending	1-091042
01/01/95	RS-50 Integrated		1836							Verified	1-091042
09/26/95	RS-50 Integrated		1712							Verified	1-093044
09/26/95	RS-50 Integrated		1728							Verified	1-095046
09/22/95	RS-50 Integrated		1758							Verified	1-167128
09/22/95	RS-50 Integrated		1579							Verified	1-168126
09/22/95	RS-50 Integrated		1769							Verified	1-171130
09/22/95	RS-50 Integrated		1793							Verified	1-174132
09/22/95	RS-50 Integrated		1757							Verified	1-176134
09/26/95	RS-50 Integrated		1782							Verified	1-177136
09/26/95	RS-50 Integrated		1825							Verified	1-179138
12/29/95	Laboratory Analyses	J95-3		1.710 ± 0.096	1.490 ± 0.140	1.99 ± 0.20				Verified	1-181140
09/26/95	RS-20 Soil Sample	J95-3								Pending	1-181140
09/26/95	RS-50 Integrated		1803							Verified	1-181140
01/01/95	RS-50 Integrated		1834							Verified	1-181140
09/26/95	RS-50 Integrated		1876							Verified	1-223206
09/26/95	RS-50 Integrated		1842							Verified	1-241210
12/29/95	Laboratory Analyses	J95-3		1.092 ± 0.079	1.140 ± 0.110	1.78 ± 0.13				Verified	1-242208
09/26/95	RS-50 Integrated		1939							Verified	1-242208
09/26/95	RS-20 Soil Sample	J95-3								Pending	1-242208
01/01/95	RS-50 Integrated		1847							Verified	1-242208
09/26/95	RS-50 Integrated		1801							Verified	1-245212
09/22/95	RS-50 Integrated		1704							Verified	1-248214
09/22/95	RS-50 Integrated		1700							Verified	1-251216
09/26/95	RS-50 Integrated		1701							Verified	1-291274
09/26/95	RS-50 Integrated		1632							Verified	1-306272
09/26/95	RS-50 Integrated		1736							Verified	1-309278
12/29/95	Laboratory Analyses	J95-3		1.073 ± 0.077	1.010 ± 0.100	1.62 ± 0.12				Verified	1-310276
09/26/95	RS-50 Integrated		1739							Verified	1-310276
09/26/95	RS-20 Soil Sample	J95-3								Pending	1-310276
01/01/95	RS-50 Integrated		1765							Verified	1-310276
09/26/95	RS-50 Integrated		1723							Verified	1-313280
09/26/95	RS-50 Integrated		1645							Verified	1-316282
09/26/95	RS-50 Integrated		1672							Verified	1-319284
09/26/95	RS-50 Integrated		1657							Verified	1-369340
09/26/95	RS-50 Integrated		1572							Verified	1-387344
09/26/95	RS-50 Integrated		1702							Verified	1-388342
09/26/95	RS-50 Integrated		1608							Verified	1-391346
09/26/95	RS-50 Integrated		1701							Verified	1-394348
09/26/95	RS-50 Integrated		1668							Verified	1-397350
09/26/95	RS-50 Integrated		1576							Verified	1-398352
09/26/95	RS-50 Integrated		1616							Verified	1-400354
12/29/95	Laboratory Analyses	J95-3		15.100 ± 0.247	12.600 ± 0.630	21.33 ± 0.67				Failed	1-401356
09/26/95	RS-20 Soil Sample	J95-3								Pending	1-401356
09/26/95	RS-50 Integrated		3720							Failed	1-401356
01/01/95	RS-50 Integrated		3946							Failed	1-401356
09/26/95	RS-50 Integrated		1656							Verified	1-403358
09/26/95	RS-50 Integrated		1673							Verified	1-405360

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
09/26/95	RS-50 Integrated		1620				Verified	1-407362
09/26/95	RS-50 Integrated		1886				Verified	1-409364
09/28/95	RS-50 Integrated		1884				Verified	1-411366
09/26/95	RS-50 Integrated		1817				Verified	1-487436
09/26/95	RS-50 Integrated		1794				Verified	1-491438
09/26/95	RS-50 Integrated		1860				Verified	1-494440
09/26/95	RS-50 Integrated		1864				Verified	1-497442
09/26/95	RS-50 Integrated		1711				Verified	1-498444
09/26/95	RS-50 Integrated		1725				Verified	1-500446
09/26/95	RS-50 Integrated		1771				Verified	1-501448
09/26/95	RS-50 Integrated		1693				Verified	1-503450
09/26/95	RS-50 Integrated		1772				Verified	1-505452
09/28/95	RS-50 Integrated		1732				Verified	1-507454
09/28/95	RS-50 Integrated		1864				Verified	1-509456
12/18/95	Laboratory Analyses	J95-12		3.580 ± 0.121	7.880 ± 0.450	3.65 ± 0.21	Verified	1-511458
09/28/95	RS-50 Integrated		2297				Failed	1-511458
09/28/95	RS-20 Soil Sample	J95-12					Pending	1-511458
01/01/95	RS-50 Integrated		2367				Failed	1-511458
09/28/95	RS-50 Integrated		1523				Verified	1-513460
09/28/95	RS-50 Integrated		2214				Verified	1-515462
12/29/95	Laboratory Analyses	J95-3		0.751 ± 0.073	1.000 ± 0.120	1.30 ± 0.12	Verified	1-606548
09/26/95	RS-20 Soil Sample	J95-3					Pending	1-606548
09/26/95	RS-50 Integrated		1853				Verified	1-606548
01/01/95	RS-50 Integrated		1692				Verified	1-606548
09/26/95	RS-50 Integrated		1804				Verified	1-609550
09/26/95	RS-50 Integrated		1778				Verified	1-610552
09/26/95	RS-50 Integrated		1675				Verified	1-612554
09/26/95	RS-50 Integrated		1812				Verified	1-613556
09/26/95	RS-50 Integrated		1774				Verified	1-615558
09/26/95	RS-50 Integrated		1777				Verified	1-617560
09/26/95	RS-50 Integrated		1832				Verified	1-619562
09/26/95	RS-50 Integrated		1690				Verified	1-621564
09/26/95	RS-50 Integrated		1644				Verified	1-623566
12/18/95	Laboratory Analyses	J95-12		0.825 ± 0.077	1.100 ± 0.100	1.86 ± 0.13	Verified	1-625568
09/28/95	RS-20 Soil Sample	J95-12					Pending	1-625568
09/26/95	RS-50 Integrated		1639				Verified	1-625568
01/01/95	RS-50 Integrated		1650				Verified	1-625568
09/26/95	RS-50 Integrated		2845				Failed	1-627570
09/26/95	RS-50 Integrated		1617				Verified	1-728668
09/28/95	RS-50 Integrated		1693				Verified	1-730670
09/28/95	RS-50 Integrated		1558				Verified	1-731672
09/28/95	RS-50 Integrated		1571				Verified	1-733674
09/28/95	RS-50 Integrated		1639				Verified	1-735676
09/28/95	RS-50 Integrated		1659				Verified	1-737678
09/28/95	RS-50 Integrated		1665				Verified	1-739680
09/26/95	RS-50 Integrated		1678				Verified	1-741682
09/26/95	RS-50 Integrated		1610				Verified	1-743684
12/18/95	Laboratory Analyses	J95-12		1.472 ± 0.088	1.160 ± 0.110	1.79 ± 0.13	Verified	1-745686
09/28/95	RS-20 Soil Sample	J95-12					Pending	1-745686
09/26/95	RS-50 Integrated		1706				Verified	1-745686
01/01/95	RS-50 Integrated		1711				Verified	1-745686
09/26/95	RS-50 Integrated		1683				Verified	1-850790
09/28/95	RS-50 Integrated		1656				Verified	1-851792
09/28/95	RS-50 Integrated		1708				Verified	1-853794
09/28/95	RS-50 Integrated		1635				Verified	1-855796
09/28/95	RS-50 Integrated		1692				Verified	1-857798



**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226		Th_230		U_tot		Grid Status	Grid Id
2/18/95	Laboratory Analyses	J95-12		1.070	± 0.080	0.749	± 0.088	1.53	± 0.12	Verified	1-859800
09/28/95	RS-20 Soil Sample	J95-12								Pending	1-859800
09/28/95	RS-50 Integrated		1722							Verified	1-859800
01/01/95	RS-50 Integrated		1670							Verified	1-859800
09/28/95	RS-50 Integrated		1822							Verified	1-861802
09/26/95	RS-50 Integrated		1771							Verified	1-863804
09/26/95	RS-50 Integrated		1440							Verified	1-865806
09/26/95	RS-50 Integrated		1417							Verified	1-867808
09/26/95	RS-50 Integrated		1438							Verified	1-869810
09/26/95	RS-50 Integrated		1498							Verified	1-871812
09/26/95	RS-50 Integrated		1470							Verified	1-873816
09/26/95	RS-50 Integrated		1413							Verified	1-874814
12/18/95	Laboratory Analyses	J95-12		1.050	± 0.079	0.707	± 0.084	1.36	± 0.11	Verified	2-017002
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-017002
09/28/95	RS-50 Integrated		1676							Verified	2-017002
01/01/95	RS-50 Integrated		1759							Verified	2-017002
09/26/95	RS-50 Integrated		1703							Verified	2-019004
09/26/95	RS-50 Integrated		1711							Verified	2-021006
09/26/95	RS-50 Integrated		1500							Verified	2-023016
09/26/95	RS-50 Integrated		1702							Verified	2-024008
09/26/95	RS-50 Integrated		1664							Verified	2-026010
09/26/95	RS-50 Integrated		1599							Verified	2-028014
09/26/95	RS-50 Integrated		1649							Verified	2-029012
09/26/95	RS-50 Integrated		1634							Verified	2-045042
09/26/95	RS-50 Integrated		1511							Verified	2-046034
09/26/95	RS-50 Integrated		1455							Verified	2-048036
09/26/95	RS-50 Integrated		1549							Verified	2-050040
09/26/95	RS-50 Integrated		1429							Verified	2-051038
09/26/95	RS-50 Integrated		1530							Verified	2-054044
12/18/95	Laboratory Analyses	J95-12		1.145	± 0.086	0.820	± 0.150	0.97	± 0.10	Verified	2-065060
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-065060
09/26/95	RS-50 Integrated		1760							Verified	2-065060
01/01/95	RS-50 Integrated		1661							Verified	2-065060
09/26/95	RS-50 Integrated		1715							Verified	2-066058
09/26/95	RS-50 Integrated		3694							Failed	2-068064
09/26/95	RS-50 Integrated		1733							Verified	2-069062
09/28/95	RS-50 Integrated		1861							Verified	2-079076
09/28/95	RS-50 Integrated		1681							Verified	2-080074
09/28/95	RS-50 Integrated		3806							Failed	2-084078
09/28/95	RS-50 Integrated		1993							Verified	2-091088
12/18/95	Laboratory Analyses	J95-12		4.580	± 0.147	3.270	± 0.200	1.75	± 0.12	Verified	2-092086
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-092086
09/28/95	RS-50 Integrated		2389							Failed	2-092086
01/01/95	RS-50 Integrated		2338							Failed	2-092086
09/28/95	RS-50 Integrated		1887							Verified	2-099096
09/28/95	RS-50 Integrated		2430							Failed	2-100094
12/18/95	Laboratory Analyses	J95-12		1.154	± 0.091	1.080	± 0.110	1.37	± 0.11	Verified	2-107104
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-107104
09/28/95	RS-50 Integrated		1960							Verified	2-107104
01/01/95	RS-50 Integrated		1871							Verified	2-107104
09/28/95	RS-50 Integrated		1646							Verified	2-108102
09/28/95	RS-50 Integrated		1834							Verified	2-112106
12/18/95	Laboratory Analyses	J95-12		2.430	± 0.114	1.670	± 0.130	1.46	± 0.11	Verified	2-121114
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-121114
09/28/95	RS-50 Integrated		1956							Verified	2-121114
01/01/95	RS-50 Integrated		1959							Verified	2-121114

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226		Th_230		U_tot		Grid Status	Grid Id
09/28/95	RS-50 Integrated		1713							Verified	2-122118
09/28/95	RS-50 Integrated		2041							Verified	2-123116
09/28/95	RS-50 Integrated		1863							Verified	2-128120
09/28/95	RS-50 Integrated		1980							Verified	2-139132
12/18/95	Laboratory Analyses	J95-12		3.280 ± 0.128	2.330 ± 0.170	1.28 ± 0.10				Verified	2-140130
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-140130
09/28/95	RS-50 Integrated		2154							Verified	2-140130
01/01/95	RS-50 Integrated		2138							Verified	2-140130
09/28/95	RS-50 Integrated		1867							Verified	2-142136
09/28/95	RS-50 Integrated		1933							Verified	2-143134
09/28/95	RS-50 Integrated		1837							Verified	2-148138
12/18/95	Laboratory Analyses	J95-12		4.680 ± 0.143	2.880 ± 0.190	1.80 ± 0.13				Verified	2-155150
09/28/95	RS-50 Integrated		2416							Failed	2-155150
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-155150
01/01/95	RS-50 Integrated		2496							Failed	2-155150
09/28/95	RS-50 Integrated		1837							Verified	2-156154
09/28/95	RS-50 Integrated		2012							Verified	2-157152
12/18/95	Laboratory Analyses	J95-12		10.510 ± 0.226	7.240 ± 0.410	2.89 ± 0.18				Failed	2-165164
09/28/95	RS-50 Integrated		3265							Failed	2-165164
09/28/95	RS-20 Soil Sample	J95-12								Pending	2-165164
01/01/95	RS-50 Integrated		3356							Failed	2-165164
09/28/95	RS-50 Integrated		2335							Failed	2-166162
09/12/95	RS-50 Integrated		2656							Failed	2-209186
09/12/95	RS-50 Integrated		2546							Failed	2-211188
09/12/95	RS-50 Integrated		2572							Failed	2-213190
09/12/95	RS-50 Integrated		2585							Failed	2-215192
09/12/95	RS-50 Integrated		2289							Failed	2-217194
09/12/95	RS-50 Integrated		2824							Failed	2-219196
09/12/95	RS-50 Integrated		3298							Failed	2-221198
12/11/95	Laboratory Analyses	J95-2		5.650 ± 0.161	4.569 ± 0.281	3.18 ± 0.17				Verified	2-223200
09/15/95	RS-20 Soil Sample	J95-2								Pending	2-223200
09/12/95	RS-50 Integrated		3604							Failed	2-223200
01/01/95	RS-50 Integrated		3480							Failed	2-223200
09/12/95	RS-50 Integrated		3826							Failed	2-225202
09/12/95	RS-50 Integrated		3437							Failed	2-227204
09/12/95	RS-50 Integrated		2077							Verified	2-229206
09/12/95	RS-50 Integrated		3057							Failed	2-231208
09/12/95	RS-50 Integrated		2774							Failed	2-265238
09/12/95	RS-50 Integrated		2521							Failed	2-266234
12/11/95	Laboratory Analyses	J95-2		8.630 ± 0.195	6.158 ± 0.341	3.48 ± 0.19				Failed	2-268236
09/15/95	RS-20 Soil Sample	J95-2								Pending	2-268236
09/12/95	RS-50 Integrated		3739							Failed	2-268236
01/01/95	RS-50 Integrated		3531							Failed	2-268236
09/12/95	RS-50 Integrated		2288							Failed	2-271242
09/12/95	RS-50 Integrated		2810							Failed	2-272240
09/12/95	RS-50 Integrated		1997							Verified	2-275244
09/12/95	RS-50 Integrated		2168							Verified	2-278246
09/12/95	RS-50 Integrated		3024							Failed	2-281248
09/12/95	RS-50 Integrated		2731							Failed	2-282250
09/12/95	RS-50 Integrated		2299							Failed	2-284252
09/12/95	RS-50 Integrated		2173							Verified	2-285254
09/12/95	RS-50 Integrated		2561							Failed	2-287256
09/12/95	RS-50 Integrated		2017							Verified	2-289258
09/12/95	RS-50 Integrated		3112							Failed	2-291260
09/12/95	RS-50 Integrated		2015							Verified	2-293262
09/12/95	RS-50 Integrated		1937							Verified	2-295264



**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
2/11/95	Laboratory Analyses	J95-2		7.120 ± 0.179	3.964 ± 0.237	1.80 ± 0.12	Failed	2-324298
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-324298
09/12/95	RS-50 Integrated		3738				Failed	2-324298
01/01/95	RS-50 Integrated		3305				Failed	2-324298
09/12/95	RS-50 Integrated		2826				Failed	2-326300
09/12/95	RS-50 Integrated		2659				Failed	2-329302
09/12/95	RS-50 Integrated		2803				Failed	2-330304
09/12/95	RS-50 Integrated		2697				Failed	2-332306
09/12/95	RS-50 Integrated		2327				Failed	2-333308
09/12/95	RS-50 Integrated		2555				Failed	2-335310
09/12/95	RS-50 Integrated		2102				Verified	2-337312
09/12/95	RS-50 Integrated		1982				Verified	2-339314
09/12/95	RS-50 Integrated		2361				Failed	2-341316
09/12/95	RS-50 Integrated		2049				Verified	2-343318
09/12/95	RS-50 Integrated		2454				Failed	2-345320
09/12/95	RS-50 Integrated		3276				Failed	2-347322
09/12/95	RS-50 Integrated		1917				Verified	2-374350
09/12/95	RS-50 Integrated		2720				Failed	2-376352
09/12/95	RS-50 Integrated		2664				Failed	2-377354
09/12/95	RS-50 Integrated		2193				Verified	2-379356
09/12/95	RS-50 Integrated		2695				Failed	2-381358
09/12/95	RS-50 Integrated		2250				Verified	2-383360
09/12/95	RS-50 Integrated		1922				Verified	2-385362
12/11/95	Laboratory Analyses	J95-2		9.370 ± 0.191	5.016 ± 0.293	2.01 ± 0.13	Failed	2-387364
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-387364
09/12/95	RS-50 Integrated		2942				Failed	2-387364
01/01/95	RS-50 Integrated		2886				Failed	2-387364
09/12/95	RS-50 Integrated		2013				Verified	2-389366
09/12/95	RS-50 Integrated		2793				Failed	2-391368
09/12/95	RS-50 Integrated		4007				Failed	2-393370
09/12/95	RS-50 Integrated		5326				Failed	2-395372
09/13/95	RS-50 Integrated		3105				Failed	2-415398
12/11/95	Laboratory Analyses	J95-2		2.270 ± 0.116	4.356 ± 0.268	1.98 ± 0.13	Verified	2-417400
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-417400
09/13/95	RS-50 Integrated		3282				Failed	2-417400
01/01/95	RS-50 Integrated		3030				Failed	2-417400
09/13/95	RS-50 Integrated		2781				Failed	2-419402
09/13/95	RS-50 Integrated		1968				Verified	2-421404
09/12/95	RS-50 Integrated		1928				Verified	2-423406
09/12/95	RS-50 Integrated		2312				Failed	2-425408
09/12/95	RS-50 Integrated		2745				Failed	2-427410
09/12/95	RS-50 Integrated		2165				Verified	2-429412
09/12/95	RS-50 Integrated		3084				Failed	2-431414
09/13/95	RS-50 Integrated		2609				Failed	2-451434
09/13/95	RS-50 Integrated		3110				Failed	2-453436
09/12/95	RS-50 Integrated		2192				Verified	2-455438
09/12/95	RS-50 Integrated		3093				Failed	2-457440
09/12/95	RS-50 Integrated		2312				Failed	2-459442
09/12/95	RS-50 Integrated		2463				Failed	2-461444
09/12/95	RS-50 Integrated		3065				Failed	2-463446
12/11/95	Laboratory Analyses	J95-2		5.980 ± 0.158	4.039 ± 0.243	2.45 ± 0.15	Verified	2-465448
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-465448
09/12/95	RS-50 Integrated		3433				Failed	2-465448
01/01/95	RS-50 Integrated		3068				Failed	2-465448
09/14/95	RS-50 Integrated		7170				Failed	2-467450
12/11/95	Laboratory Analyses	J95-2		6.350 ± 0.166	3.770 ± 0.241	2.24 ± 0.14	Failed	2-491470

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226		Th_230		U_tot		Grid Status	Grid Id
09/15/95	RS-20 Soil Sample	J95-2								Pending	2-491470
09/12/95	RS-50 Integrated		3250							Failed	2-491470
01/01/95	RS-50 Integrated		2921							Failed	2-491470
09/12/95	RS-50 Integrated		2058							Verified	2-493472
09/12/95	RS-50 Integrated		2273							Verified	2-497476
09/12/95	RS-50 Integrated		2512							Failed	2-499478
09/12/95	RS-50 Integrated		2594							Failed	2-501480
09/12/95	RS-50 Integrated		2864							Failed	2-503482
09/12/95	RS-50 Integrated		2248							Verified	2-505484
09/14/95	RS-50 Integrated		2239							Verified	2-507486
09/14/95	RS-50 Integrated		9163							Failed	2-509490
09/14/95	RS-50 Integrated		2329							Failed	2-510488
09/28/95	RS-50 Integrated		2016							Verified	2-531514
09/28/95	RS-50 Integrated		1877							Verified	2-533516
09/13/95	RS-50 Integrated		2443							Failed	2-535518
09/12/95	RS-50 Integrated		2103							Verified	2-537520
09/13/95	RS-50 Integrated		2085							Verified	2-540522
09/13/95	RS-50 Integrated		1981							Verified	2-542524
12/11/95	Laboratory Analyses	J95-2		4.260 ± 0.124	3.811 ± 0.243	2.00 ± 0.14				Verified	2-544528
09/15/95	RS-20 Soil Sample	J95-2								Pending	2-544528
09/14/95	RS-50 Integrated		2620							Failed	2-544528
01/01/95	RS-50 Integrated		2585							Failed	2-544528
09/14/95	RS-50 Integrated		2365							Failed	2-545526
09/28/95	RS-50 Integrated		1839							Verified	2-563550
09/14/95	RS-50 Integrated		2272							Verified	2-565552
09/14/95	RS-50 Integrated		2290							Failed	2-567562
09/13/95	RS-50 Integrated		2147							Verified	2-568554
09/13/95	RS-50 Integrated		1789							Verified	2-570556
09/14/95	RS-50 Integrated		2168							Verified	2-572560
09/14/95	RS-50 Integrated		2049							Verified	2-573558
09/14/95	RS-50 Integrated		2182							Verified	2-589586
09/14/95	RS-50 Integrated		2043							Verified	2-590578
09/14/95	RS-50 Integrated		1755							Verified	2-592580
09/14/95	RS-50 Integrated		1992							Verified	2-594584
09/14/95	RS-50 Integrated		1815							Verified	2-595582
09/14/95	RS-50 Integrated		1949							Verified	2-598588
09/14/95	RS-50 Integrated		1862							Verified	2-611608
09/14/95	RS-50 Integrated		1759							Verified	2-612602
09/14/95	RS-50 Integrated		1684							Verified	2-614606
09/14/95	RS-50 Integrated		2099							Verified	2-615604
09/14/95	RS-50 Integrated		1832							Verified	2-618610
09/14/95	RS-50 Integrated		1765							Verified	2-631626
09/14/95	RS-50 Integrated		1791							Verified	2-632624
09/14/95	RS-50 Integrated		1907							Verified	2-633622
09/14/95	RS-50 Integrated		1824							Verified	2-636630
09/14/95	RS-50 Integrated		1954							Verified	2-637628
09/14/95	RS-50 Integrated		1909							Verified	2-649644
09/14/95	RS-50 Integrated		2124							Verified	2-650642
09/14/95	RS-50 Integrated		1903							Verified	2-652648
12/11/95	Laboratory Analyses	J95-2		2.460 ± 0.108	1.926 ± 0.146	1.90 ± 0.13				Verified	2-653646
09/15/95	RS-20 Soil Sample	J95-2								Pending	2-653646
09/14/95	RS-50 Integrated		2224							Verified	2-653646
01/01/95	RS-50 Integrated		2145							Verified	2-653646
09/14/95	RS-50 Integrated		2101							Verified	2-661660
09/14/95	RS-50 Integrated		2021							Verified	2-662658
09/14/95	RS-50 Integrated		2117							Verified	2-669666



**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
09/18/95	RS-50 Integrated		3307				Failed	2-672668
09/18/95	RS-50 Integrated		2079				Verified	2-676674
09/18/95	RS-50 Integrated		2552				Failed	2-680678
09/18/95	RS-50 Integrated		2315				Failed	2-687684
09/19/95	RS-50 Integrated		1791				Verified	2-688682
09/18/95	RS-50 Integrated		2196				Verified	2-695692
09/19/95	RS-50 Integrated		1760				Verified	2-696690
09/18/95	RS-50 Integrated		2728				Failed	2-706702
09/18/95	RS-50 Integrated		2346				Failed	2-711704
09/19/95	RS-50 Integrated		1659				Verified	2-712698
09/18/95	RS-50 Integrated		2627				Failed	2-733724
09/18/95	RS-50 Integrated		1993				Verified	2-739726
09/19/95	RS-50 Integrated		1693				Verified	2-740714
09/18/95	RS-50 Integrated		2668				Failed	2-761752
12/11/95	Laboratory Analyses	J95-2		3.870 ± 0.140	3.294 ± 0.210	4.42 ± 0.20	Verified	2-767754
09/18/95	RS-50 Integrated		2508				Failed	2-767754
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-767754
01/01/95	RS-50 Integrated		2323				Failed	2-767754
09/19/95	RS-50 Integrated		1826				Verified	2-768742
09/18/95	RS-50 Integrated		2766				Failed	2-789780
09/18/95	RS-50 Integrated		2159				Verified	2-795782
09/19/95	RS-50 Integrated		1811				Verified	2-796770
12/11/95	Laboratory Analyses	J95-2		3.550 ± 0.128	3.433 ± 0.220	5.18 ± 0.23	Verified	2-821810
09/18/95	RS-50 Integrated		2367				Failed	2-821810
09/15/95	RS-20 Soil Sample	J95-2					Pending	2-821810
01/01/95	RS-50 Integrated		2249				Verified	2-821810
09/18/95	RS-50 Integrated		2012				Verified	2-827812
09/19/95	RS-50 Integrated		2395				Failed	2-828798
09/18/95	RS-50 Integrated		2054				Verified	2-902866
09/18/95	RS-50 Integrated		1950				Verified	2-908868
09/25/95	RS-50 Integrated		2796				Failed	2-921948
09/25/95	RS-50 Integrated		2698				Failed	2-923950
09/25/95	RS-50 Integrated		2786				Failed	2-925952
12/29/95	Laboratory Analyses	J95-3		5.690 ± 0.154	2.950 ± 0.200	2.09 ± 0.17	Verified	2-927954
09/26/95	RS-20 Soil Sample	J95-3					Pending	2-927954
09/25/95	RS-50 Integrated		2829				Failed	2-927954
01/01/95	RS-50 Integrated		2712				Failed	2-927954
09/25/95	RS-50 Integrated		2679				Failed	2-929956
09/25/95	RS-50 Integrated		2619				Failed	2-931958
09/25/95	RS-50 Integrated		2488				Failed	2-933960
09/25/95	RS-50 Integrated		2409				Failed	2-935962
09/25/95	RS-50 Integrated		2481				Failed	2-937964
09/25/95	RS-50 Integrated		2404				Failed	2-939966
09/25/95	RS-50 Integrated		2410				Failed	2-941968
09/25/95	RS-50 Integrated		2308				Failed	2-943970
09/25/95	RS-50 Integrated		2351				Failed	2-945972
09/25/95	RS-50 Integrated		2051				Verified	2-981984
09/25/95	RS-50 Integrated		3106				Failed	2-983986
09/25/95	RS-50 Integrated		3601				Failed	2-989992
09/25/95	RS-50 Integrated		3705				Failed	2-991994
09/19/95	RS-50 Integrated		2144				Verified	3-067026
09/19/95	RS-50 Integrated		2014				Verified	3-070028
09/18/95	RS-50 Integrated		1833				Verified	3-078040
09/18/95	RS-50 Integrated		1867				Verified	3-084042
09/19/95	RS-50 Integrated		2010				Verified	3-153112
09/19/95	RS-50 Integrated		1851				Verified	3-156114

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
07/18/95	RS-50 Integrated		1858				Verified	3-164126
09/15/95	RS-50 Integrated		2118				Verified	3-235194
09/15/95	RS-50 Integrated		1823				Verified	3-237196
09/15/95	RS-50 Integrated		1959				Verified	3-239206
09/15/95	RS-50 Integrated		1849				Verified	3-240198
09/15/95	RS-50 Integrated		1920				Verified	3-242200
09/15/95	RS-50 Integrated		2050				Verified	3-244204
09/15/95	RS-50 Integrated		1931				Verified	3-249208
09/15/95	RS-50 Integrated		1832				Verified	3-315276
09/15/95	RS-50 Integrated		1861				Verified	3-317278
09/15/95	RS-50 Integrated		1807				Verified	3-321290
09/15/95	RS-50 Integrated		2148				Verified	3-326288
09/15/95	RS-50 Integrated		1861				Verified	3-330292
09/15/95	RS-50 Integrated		2053				Verified	3-391354
09/15/95	RS-50 Integrated		1932				Verified	3-393356
09/15/95	RS-50 Integrated		1977				Verified	3-395358
09/15/95	RS-50 Integrated		2083				Verified	3-399370
09/15/95	RS-50 Integrated		1845				Verified	3-404368
09/15/95	RS-50 Integrated		2518				Failed	3-405366
09/15/95	RS-50 Integrated		2128				Verified	3-461428
09/15/95	RS-50 Integrated		2161				Verified	3-463430
09/15/95	RS-50 Integrated		2064				Verified	3-465432
12/11/95	Laboratory Analyses	J95-2		2.720 ± 0.109	3.559 ± 0.228	24.46 ± 0.70	Verified	3-471438
09/15/95	RS-50 Integrated		2230				Verified	3-471438
09/15/95	RS-20 Soil Sample	J95-2					Pending	3-471438
1/01/95	RS-50 Integrated		2126				Verified	3-471438
3/15/95	RS-50 Integrated		2092				Verified	3-473442
09/15/95	RS-50 Integrated		2014				Verified	3-474440
09/28/95	RS-50 Integrated		1711				Verified	3-521490
09/15/95	RS-50 Integrated		1938				Verified	3-523492
09/15/95	RS-50 Integrated		2251				Verified	3-525494
10/10/95	RS-50 Integrated		1812				Verified	3-527496
10/10/95	RS-50 Integrated		1715				Verified	3-529498
09/14/95	RS-50 Integrated		1943				Verified	3-533502
09/14/95	RS-50 Integrated		2201				Verified	3-535504
12/11/95	Laboratory Analyses	J95-2		4.900 ± 0.156	5.874 ± 0.328	33.96 ± 0.92	Failed	3-537506
09/15/95	RS-20 Soil Sample	J95-2					Pending	3-537506
09/14/95	RS-50 Integrated		2798				Failed	3-537506
01/01/95	RS-50 Integrated		2602				Failed	3-537506
09/14/95	RS-50 Integrated		2172				Verified	3-539508
09/14/95	RS-50 Integrated		1745				Verified	3-585554
09/14/95	RS-50 Integrated		2110				Verified	3-587556
09/14/95	RS-50 Integrated		2008				Verified	3-589558
10/10/95	RS-50 Integrated		1736				Verified	3-591560
10/10/95	RS-50 Integrated		1845				Verified	3-593562
10/10/95	RS-50 Integrated		1910				Verified	3-595564
09/14/95	RS-50 Integrated		2117				Verified	3-597566
12/11/95	Laboratory Analyses	J95-2		4.720 ± 0.149	4.542 ± 0.261	7.14 ± 0.28	Verified	3-599568
09/15/95	RS-20 Soil Sample	J95-2					Pending	3-599568
09/14/95	RS-50 Integrated		2615				Failed	3-599568
01/01/95	RS-50 Integrated		2509				Failed	3-599568
3/14/95	RS-50 Integrated		2168				Verified	3-601570
09/14/95	RS-50 Integrated		2772				Failed	3-603572
09/14/95	RS-50 Integrated		1925				Verified	3-655624
09/14/95	RS-50 Integrated		1837				Verified	3-657626
10/10/95	RS-50 Integrated		2022				Verified	3-659628



**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
7/10/95	RS-50 Integrated		1937				Verified	3-661630
09/14/95	RS-50 Integrated		1985				Verified	3-663632
09/14/95	RS-50 Integrated		2075				Verified	3-665634
09/14/95	RS-50 Integrated		1844				Verified	3-667636
09/14/95	RS-50 Integrated		2121				Verified	3-717686
09/14/95	RS-50 Integrated		1944				Verified	3-719688
09/14/95	RS-50 Integrated		1855				Verified	3-721690
09/14/95	RS-50 Integrated		1964				Verified	3-723692
09/14/95	RS-50 Integrated		2113				Verified	3-725694
09/14/95	RS-50 Integrated		2171				Verified	3-727696
12/11/95	Laboratory Analyses	J95-2		6.070 ± 0.163	2.987 ± 0.203	5.23 ± 0.21	Failed	3-729698
09/15/95	RS-20 Soil Sample	J95-2					Pending	3-729698
09/14/95	RS-50 Integrated		2378				Failed	3-729698
01/01/95	RS-50 Integrated		2200				Verified	3-729698
09/14/95	RS-50 Integrated		2328				Failed	3-731700
09/14/95	RS-50 Integrated		2402				Failed	3-779748
09/14/95	RS-50 Integrated		2282				Failed	3-781750
09/14/95	RS-50 Integrated		2046				Verified	3-783752
09/14/95	RS-50 Integrated		2141				Verified	3-785754
09/14/95	RS-50 Integrated		2135				Verified	3-787756
09/14/95	RS-50 Integrated		2307				Failed	3-789758
09/14/95	RS-50 Integrated		2339				Failed	3-791760
09/14/95	RS-50 Integrated		2429				Failed	3-793762
09/14/95	RS-50 Integrated		3116				Failed	3-795764
12/11/95	Laboratory Analyses	J95-2		8.970 ± 0.190	12.222 ± 0.588	7.33 ± 0.28	Failed	3-845812
7/15/95	RS-20 Soil Sample	J95-2					Pending	3-845812
3/12/95	RS-50 Integrated		3533				Failed	3-845812
01/01/95	RS-50 Integrated		3390				Failed	3-845812
09/13/95	RS-50 Integrated		2390				Failed	3-847814
09/13/95	RS-50 Integrated		2345				Failed	3-849816
09/13/95	RS-50 Integrated		2909				Failed	3-851818
09/13/95	RS-50 Integrated		2904				Failed	3-853820
09/13/95	RS-50 Integrated		2935				Failed	3-855822
09/13/95	RS-50 Integrated		2089				Verified	3-857824
09/14/95	RS-50 Integrated		1951				Verified	3-859826
09/12/95	RS-50 Integrated		2109				Verified	3-861828
09/12/95	RS-50 Integrated		2072				Verified	3-863830
09/12/95	RS-50 Integrated		2321				Failed	3-909876
09/13/95	RS-50 Integrated		2096				Verified	3-911878
09/13/95	RS-50 Integrated		2322				Failed	3-913880
09/13/95	RS-50 Integrated		2683				Failed	3-915882
09/13/95	RS-50 Integrated		2558				Failed	3-917884
09/13/95	RS-50 Integrated		2417				Failed	3-919886
09/13/95	RS-50 Integrated		2760				Failed	3-921888
12/11/95	Laboratory Analyses	J95-2		5.560 ± 0.167	6.270 ± 0.329	11.96 ± 0.40	Failed	3-923890
09/15/95	RS-20 Soil Sample	J95-2					Pending	3-923890
09/13/95	RS-50 Integrated		2976				Failed	3-923890
01/01/95	RS-50 Integrated		2749				Failed	3-923890
09/14/95	RS-50 Integrated		2431				Failed	3-925892
09/14/95	RS-50 Integrated		2633				Failed	3-927894
9/25/95	RS-50 Integrated		2009				Verified	3-929896
3/25/95	RS-50 Integrated		2212				Verified	3-931898
09/15/95	RS-50 Integrated		2269				Verified	3-951942
12/29/95	Laboratory Analyses	J95-3		3.070 ± 0.117	3.620 ± 0.240	3.00 ± 0.19	Verified	3-959954
09/26/95	RS-20 Soil Sample	J95-3					Pending	3-959954
09/25/95	RS-50 Integrated		2660				Failed	3-959954

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
7/01/95	RS-50 Integrated		2579				Failed	3-959954
09/25/95	RS-50 Integrated		2397				Failed	3-961956
09/25/95	RS-50 Integrated		2267				Verified	3-963958
12/29/95	Laboratory Analyses	J95-3		5.780 ± 0.164	1.880 ± 0.140	2.53 ± 0.14	Verified	3-971966
09/26/95	RS-20 Soil Sample	J95-3					Pending	3-971966
09/25/95	RS-50 Integrated		2575				Failed	3-971966
01/01/95	RS-50 Integrated		2308				Failed	3-971966
09/25/95	RS-50 Integrated		1805				Verified	3-973968
09/25/95	RS-50 Integrated		1646				Verified	3-975970
09/25/95	RS-50 Integrated		1323				Verified	3-983978
09/25/95	RS-50 Integrated		1781				Verified	3-985980
12/29/95	Laboratory Analyses	J95-3		2.240 ± 0.113	1.880 ± 0.150	26.28 ± 0.73	Verified	3-987982
09/26/95	RS-20 Soil Sample	J95-3					Pending	3-987982
09/25/95	RS-50 Integrated		2031				Verified	3-987982
01/01/95	RS-50 Integrated		2045				Verified	3-987982
09/21/95	RS-50 Integrated		1583				Verified	4-206142
09/21/95	RS-50 Integrated		1794				Verified	4-208152
12/29/95	Laboratory Analyses	J95-3		1.558 ± 0.095	1.110 ± 0.110	2.27 ± 0.14	Verified	4-211146
09/25/95	RS-20 Soil Sample	J95-3					Pending	4-211146
09/21/95	RS-50 Integrated		1995				Verified	4-211146
01/01/95	RS-50 Integrated		1852				Verified	4-211146
09/21/95	RS-50 Integrated		1790				Verified	4-213150
09/21/95	RS-50 Integrated		1768				Verified	4-214148
09/21/95	RS-50 Integrated		1662				Verified	4-217156
09/21/95	RS-50 Integrated		1652				Verified	4-218154
09/21/95	RS-50 Integrated		1687				Verified	4-223158
09/21/95	RS-50 Integrated		2480				Failed	4-224094
09/21/95	RS-50 Integrated		1726				Verified	4-339274
09/21/95	RS-50 Integrated		1674				Verified	4-341284
09/21/95	RS-50 Integrated		1647				Verified	4-342276
12/29/95	Laboratory Analyses	J95-3		1.567 ± 0.094	1.620 ± 0.130	3.25 ± 0.17	Verified	4-344278
09/25/95	RS-20 Soil Sample	J95-3					Pending	4-344278
09/21/95	RS-50 Integrated		1829				Verified	4-344278
01/01/95	RS-50 Integrated		1838				Verified	4-344278
09/21/95	RS-50 Integrated		1760				Verified	4-346282
09/21/95	RS-50 Integrated		1637				Verified	4-347280
09/21/95	RS-50 Integrated		1606				Verified	4-350288
09/21/95	RS-50 Integrated		1598				Verified	4-351286
09/21/95	RS-50 Integrated		1592				Verified	4-356290
09/26/95	RS-50 Integrated		1925				Verified	4-446382
12/29/95	Laboratory Analyses	J95-3		1.308 ± 0.090	1.290 ± 0.140	2.06 ± 0.14	Verified	4-449384
09/26/95	RS-20 Soil Sample	J95-3					Pending	4-449384
09/26/95	RS-50 Integrated		2288				Failed	4-449384
01/01/95	RS-50 Integrated		2161				Verified	4-449384
09/26/95	RS-50 Integrated		1924				Verified	4-452388
09/26/95	RS-50 Integrated		2001				Verified	4-453390
09/21/95	RS-50 Integrated		1667				Verified	4-469406
09/21/95	RS-50 Integrated		1690				Verified	4-471416
12/29/95	Laboratory Analyses	J95-3		1.129 ± 0.088	1.370 ± 0.120	1.99 ± 0.13	Verified	4-472408
09/25/95	RS-20 Soil Sample	J95-3					Pending	4-472408
09/21/95	RS-50 Integrated		1799				Verified	4-472408
07/01/95	RS-50 Integrated		1834				Verified	4-472408
09/21/95	RS-50 Integrated		1680				Verified	4-474410
09/21/95	RS-50 Integrated		1636				Verified	4-476414
09/21/95	RS-50 Integrated		1616				Verified	4-477412
09/21/95	RS-50 Integrated		1694				Verified	4-480420

**Table 4 - Jeffrey City Reconnaissance Database**

Sample Date	WNI Standard Operating Procedure	Lot #	Gamma Reading	Ra_226	Th_230	U_tot	Grid Status	Grid Id
07/21/95	RS-50 Integrated		1633				Verified	4-481418
09/22/95	RS-50 Integrated		1812				Verified	4-573510
09/22/95	RS-50 Integrated		1866				Verified	4-576512
09/22/95	RS-50 Integrated		1729				Verified	4-579514
09/22/95	RS-50 Integrated		1736				Verified	4-580516
09/26/95	RS-50 Integrated		1645				Verified	4-582518
09/26/95	RS-50 Integrated		1568				Verified	4-583520
09/26/95	RS-50 Integrated		1640				Verified	4-585522
09/26/95	RS-50 Integrated		1653				Verified	4-589526
09/26/95	RS-50 Integrated		1698				Verified	4-591528
09/21/95	RS-50 Integrated		1675				Verified	4-597534
12/29/95	Laboratory Analyses	J95-3		1.274 ± 0.085	1.250 ± 0.120	2.27 ± 0.14	Verified	4-599536
09/25/95	RS-20 Soil Sample	J95-3					Pending	4-599536
09/21/95	RS-50 Integrated		1723				Verified	4-599536
01/01/95	RS-50 Integrated		1781				Verified	4-599536
09/21/95	RS-50 Integrated		1573				Verified	4-601546
09/21/95	RS-50 Integrated		1714				Verified	4-602538
09/21/95	RS-50 Integrated		1652				Verified	4-604540
09/21/95	RS-50 Integrated		1577				Verified	4-606544
09/21/95	RS-50 Integrated		1556				Verified	4-607542
09/21/95	RS-50 Integrated		1742				Verified	4-610548
09/21/95	RS-50 Integrated		1806				Verified	4-640621
09/21/95	RS-50 Integrated		1762				Verified	4-642623
09/21/95	RS-50 Integrated		1828				Verified	4-644625
09/21/95	RS-50 Integrated		1774				Verified	4-648629
07/21/95	RS-50 Integrated		1810				Verified	4-650631
12/29/95	Laboratory Analyses	J95-3		2.140 ± 0.108	2.210 ± 0.170	4.07 ± 0.20	Verified	4-652633
09/25/95	RS-20 Soil Sample	J95-3					Pending	4-652633
09/21/95	RS-50 Integrated		1849				Verified	4-652633
01/01/95	RS-50 Integrated		1894				Verified	4-652633
09/21/95	RS-50 Integrated		1785				Verified	4-654635
09/21/95	RS-50 Integrated		1704				Verified	4-656637
09/21/95	RS-50 Integrated		1917				Verified	4-658639

NOTE: RECORDS DATED 01/01/95 ARE CALCULATED MEAN GAMMA VALUES BASED ON INDIVIDUAL READINGS FROM 5 INSTRUMENTS FOR PURPOSES OF THE GAMMA-RADIUM CORRELATION, AS DISCUSSED IN SECTION 3.1. THE ACTUAL DATE OF THE INDIVIDUAL GAMMA SURVEYS USED TO DETERMINE THE MEAN ARE CONTEMPORARY WITH OTHER SURVEYS.



TABLE 5. BORING LOCATION 1

BHR-1: 6311.0'	U-total		Th-230		Ra-226	
0.0-1.0	23.30 ±	0.80	12.81 ±	0.71	4.65 ±	0.13
1.0-2.0	2.01 ±	0.16	1.25 ±	0.13	0.971 ±	0.082
2.0-3.0	2.25 ±	0.16	1.39 ±	0.14	0.762 ±	0.069
3.0-4.0	1.58 ±	0.14	1.26 ±	0.14	1.027 ±	0.085
4.0-5.0	2.03 ±	0.16	1.27 ±	0.13	1.130 ±	0.093
5.0-6.0	2.10 ±	0.16	1.78 ±	0.16	1.463 ±	0.098
6.0-7.0	2.92 ±	0.19	2.01 ±	0.17	1.64 ±	0.11
7.0-8.0	2.37 ±	0.17	1.71 ±	0.16	1.155 ±	0.09
8.0-9.0	2.21 ±	0.16	1.37 ±	0.14	0.961 ±	0.076
9.0-10.0	1.62 ±	0.13	1.05 ±	0.12	0.764 ±	0.079

TABLE 7. BORING LOCATION 3

BHR-3: 6325.9'	U-total		Th-230		Ra-226	
0.0-1.0	2.46 ±	0.14	1.42 ±	0.14	1.281 ±	0.089
1.0-2.0	1.50 ±	0.11	1.15 ±	0.13	0.909 ±	0.080
2.0-3.0	1.43 ±	0.10	0.92 ±	0.11	0.788 ±	0.064
3.0-4.0	1.34 ±	0.10	1.11 ±	0.12	0.998 ±	0.086
4.0-5.0	1.85 ±	0.13	1.24 ±	0.13	0.926 ±	0.080
5.0-6.0	1.44 ±	0.10	0.98 ±	0.11	0.879 ±	0.078
6.0-7.0	1.44 ±	0.11	0.91 ±	0.11	0.995 ±	0.088
7.0-8.0	1.39 ±	0.12	0.97 ±	0.11	0.938 ±	0.081
8.0-9.0	1.98 ±	0.14	1.29 ±	0.13	0.959 ±	0.087
9.0-10.0	1.75 ±	0.11	1.11 ±	0.12	0.935 ±	0.084

TABLE 9. BORING LOCATION 5

BHR-5: 6435.9'	U-total		Th-230		Ra-226	
0.0-1.0	1.71 ±	0.13	1.33 ±	0.15	2.060 ±	0.095
1.0-2.0	0.91 ±	0.09	0.66 ±	0.10	0.688 ±	0.075
2.0-3.0	1.02 ±	0.10	0.614 ±	0.093	0.551 ±	0.065
3.0-4.0	1.42 ±	0.12	0.84 ±	0.11	0.840 ±	0.076
4.0-5.0	1.48 ±	0.11	1.10 ±	0.12	1.087 ±	0.081
5.0-6.0	1.30 ±	0.11	0.79 ±	0.11	0.844 ±	0.076
6.0-7.0	1.32 ±	0.11	0.85 ±	0.11	0.840 ±	0.072
7.0-8.0	1.28 ±	0.10	0.67 ±	0.11	0.849 ±	0.077
8.0-9.0	1.42 ±	0.11	1.11 ±	0.12	1.103 ±	0.089
9.0-10.0	1.45 ±	0.11	0.84 ±	0.11	0.687 ±	0.074

TABLE 11. BORING LOCATION 7

BHR-7: 6442.2'	U-total		Th-230		Ra-226	
0.0-1.0	1.93 ±	0.13	2.99 ±	0.21	7.93 ±	0.18
1.0-2.0	1.19 ±	0.10	0.79 ±	0.11	1.319 ±	0.084
2.0-3.0	1.10 ±	0.10	0.71 ±	0.10	1.467 ±	0.084
3.0-4.0	1.19 ±	0.11	0.59 ±	0.12	0.554 ±	0.071
4.0-5.0	2.58 ±	0.16	6.34 ±	0.39	7.29 ±	0.18
5.0-6.0	1.01 ±	0.09	0.777 ±	0.098	0.955 ±	0.080
6.0-7.0	1.04 ±	0.10	0.575 ±	0.086	0.911 ±	0.074
7.0-8.0	1.00 ±	0.09	0.627 ±	0.091	0.522 ±	0.063
8.0-9.0	1.32 ±	0.11	0.84 ±	0.10	0.731 ±	0.074
9.0-10.0	0.00 ±	0.00	±	±	±	±

TABLE 6. BORING LOCATION 2

BHR-2: 6294.8'	U-total		Th-230		Ra-226	
0.0-1.0	5.32 ±	0.27	3.04 ±	0.22	2.25 ±	0.12
1.0-2.0	1.32 ±	0.12	0.99 ±	0.11	0.723 ±	0.069
2.0-3.0	1.17 ±	0.12	0.690 ±	0.098	0.526 ±	0.059
3.0-4.0	1.44 ±	0.13	0.75 ±	0.10	0.505 ±	0.055
4.0-5.0	2.22 ±	0.16	1.23 ±	0.13	0.794 ±	0.066
5.0-6.0	1.79 ±	0.14	0.89 ±	0.11	0.564 ±	0.061
6.0-7.0	2.25 ±	0.17	0.77 ±	0.10	0.650 ±	0.066
7.0-8.0	1.76 ±	0.14	0.569 ±	0.084	0.661 ±	0.068
8.0-9.0	4.56 ±	0.25	0.76 ±	0.10	0.590 ±	0.067
9.0-10.0	2.51 ±	0.17	0.76 ±	0.10	0.520 ±	0.072

TABLE 8. BORING LOCATION 4

BHR-4: 6432.7'	U-total		Th-230		Ra-226	
0.0-1.0	2.89 ±	0.14	2.67 ±	0.2	2.38 ±	0.11
1.0-2.0	1.51 ±	0.11	1.56 ±	0.15	3.21 ±	0.13
2.0-3.0	1.66 ±	0.11	1.56 ±	0.15	1.738 ±	0.098
3.0-4.0	0.94 ±	0.08	0.669 ±	0.095	0.599 ±	0.066
4.0-5.0	1.46 ±	0.10	1.40 ±	0.13	0.964 ±	0.084
5.0-6.0	1.34 ±	0.10	0.95 ±	0.10	0.922 ±	0.082
6.0-7.0	1.73 ±	0.12	1.17 ±	0.12	1.050 ±	0.087
7.0-8.0	1.36 ±	0.10	0.94 ±	0.10	1.147 ±	0.090
8.0-9.0	1.75 ±	0.11	1.15 ±	0.11	0.954 ±	0.081
9.0-10.0	1.29 ±	0.10	1.02 ±	0.12	0.830 ±	0.078

TABLE 10. BORING LOCATION 6

BHR-6: 6481.2'	U-total		Th-230		Ra-226	
0.0-1.0	1.58 ±	0.13	2.74 ±	0.21	4.71 ±	0.12
1.0-2.0	2.02 ±	0.14	2.54 ±	0.18	3.69 ±	0.13
2.0-3.0	2.00 ±	0.14	1.32 ±	0.12	3.64 ±	0.13
3.0-4.0	1.05 ±	0.10	0.569 ±	0.077	0.620 ±	0.071
4.0-5.0	1.08 ±	0.10	0.837 ±	0.093	0.864 ±	0.082
5.0-6.0	1.06 ±	0.10	0.647 ±	0.085	0.655 ±	0.069
6.0-7.0	0.99 ±	0.10	0.658 ±	0.088	0.873 ±	0.078
7.0-8.0	1.08 ±	0.10	0.654 ±	0.083	0.598 ±	0.071
8.0-9.0	1.03 ±	0.10	0.627 ±	0.093	0.689 ±	0.070
9.0-10.0	0.97 ±	0.09	0.601 ±	0.079	0.584 ±	0.069

TABLE 12. BORING LOCATION 8

BHR-8: 6425.0'	U-total		Th-230		Ra-226	
0.0-1.0	0.89 ±	0.08	0.626 ±	0.079	5.61 ±	0.18
1.0-2.0	2.33 ±	0.14	1.42 ±	0.12	1.64 ±	0.10
2.0-3.0	1.38 ±	0.11	0.905 ±	0.097	1.177 ±	0.089
3.0-4.0	1.25 ±	0.11	0.794 ±	0.088	0.699 ±	0.074
4.0-5.0	1.02 ±	0.09	0.689 ±	0.086	0.869 ±	0.079
5.0-6.0	0.80 ±	0.09	0.592 ±	0.086	0.500 ±	0.067
6.0-7.0	1.00 ±	0.09	0.605 ±	0.084	0.633 ±	0.072
7.0-8.0	0.89 ±	0.08	0.510 ±	0.079	0.594 ±	0.071
8.0-9.0	0.96 ±	0.09	0.618 ±	0.086	0.596 ±	0.063
9.0-10.0	0.00 ±	0.00	±	±	±	±



TABLE 13. BORING LOCATION 9

BHR-9: 6410.7'	U-total		Th-230		Ra-226	
0.0-1.0	2.06 ±	0.13	2.74 ±	0.20	6.90 ±	0.18
1.0-2.0	1.26 ±	0.10	0.78 ±	0.10	0.732 ±	0.074
2.0-3.0	1.98 ±	0.13	2.51 ±	0.20	2.93 ±	0.12
3.0-4.0	1.27 ±	0.10	0.82 ±	0.10	0.691 ±	0.076
4.0-5.0	1.67 ±	0.12	2.07 ±	0.17	3.98 ±	0.14
5.0-6.0	1.23 ±	0.10	0.88 ±	0.11	0.795 ±	0.081
6.0-7.0	1.27 ±	0.10	0.82 ±	0.10	0.623 ±	0.073
7.0-8.0	1.04 ±	0.10	0.555 ±	0.086	0.652 ±	0.065
8.0-9.0	1.17 ±	0.16	0.73 ±	0.11	0.738 ±	0.075
9.0-10.0	1.13 ±	0.10	0.682 ±	0.088	0.634 ±	0.064

TABLE 15. BORING LOCATION 11

BHR-11: 6310.1'	U-total		Th-230		Ra-226	
0.0-1.0	6.98 ±	0.44	3.85 ±	0.25	3.26 ±	0.14
1.0-2.0	2.70 ±	0.16	1.72 ±	0.16	1.60 ±	0.11
2.0-3.0	2.96 ±	0.17	2.00 ±	0.17	1.67 ±	0.11
3.0-4.0	2.14 ±	0.14	1.60 ±	0.15	1.75 ±	0.11
4.0-5.0	2.17 ±	0.14	1.73 ±	0.16	1.89 ±	0.11
5.0-6.0	1.74 ±	0.12	1.36 ±	0.14	1.489 ±	0.095
6.0-7.0	2.12 ±	0.14	1.21 ±	0.12	1.232 ±	0.093
7.0-8.0	1.71 ±	0.13	1.11 ±	0.12	1.098 ±	0.086
8.0-9.0	1.45 ±	0.11	0.768 ±	0.095	0.672 ±	0.075
9.0-10.0	1.05 ±	0.10	0.437 ±	0.074	0.590 ±	0.073

TABLE 17. BORING LOCATION 13

BHR-13: 6318.8'	U-total		Th-230		Ra-226	
0.0-1.0	1.37 ±	0.13	1.33 ±	0.14	0.747 ±	0.079
1.0-2.0	1.56 ±	0.14	1.13 ±	0.12	0.896 ±	0.082
2.0-3.0	1.40 ±	0.14	1.17 ±	0.12	1.364 ±	0.097
3.0-4.0	1.58 ±	0.14	1.31 ±	0.13	1.417 ±	0.091
4.0-5.0	1.52 ±	0.16	1.08 ±	0.12	1.208 ±	0.092
5.0-6.0	1.38 ±	0.14	1.01 ±	0.11	0.799 ±	0.079
6.0-7.0	1.33 ±	0.13	0.97 ±	0.11	0.757 ±	0.079
7.0-8.0	1.35 ±	0.14	1.16 ±	0.13	0.749 ±	0.082
8.0-9.0	1.59 ±	0.14	0.94 ±	0.11	0.994 ±	0.085
9.0-10.0	1.11 ±	0.11	0.750 ±	0.096	0.775 ±	0.073

TABLE 19. BORING LOCATION 15

BHR-15: 6309.8'	U-total		Th-230		Ra-226	
0.0-1.0	1.30 ±	0.10	0.85 ±	0.10	0.734 ±	0.075
1.0-2.0	1.20 ±	0.10	0.90 ±	0.10	0.744 ±	0.075
2.0-3.0	1.36 ±	0.10	0.88 ±	0.10	0.906 ±	0.082
3.0-4.0	1.41 ±	0.11	0.88 ±	0.10	0.625 ±	0.075
4.0-5.0	1.53 ±	0.11	0.92 ±	0.10	0.703 ±	0.082
5.0-6.0	1.27 ±	0.10	0.798 ±	0.099	0.756 ±	0.077
6.0-7.0	1.25 ±	0.10	0.84 ±	0.10	0.696 ±	0.079
7.0-8.0	1.40 ±	0.11	0.95 ±	0.11	0.687 ±	0.077
8.0-9.0	1.41 ±	0.11	0.817 ±	0.093	0.916 ±	0.079
9.0-10.0	1.76 ±	0.14	1.14 ±	0.12	0.664 ±	0.070

TABLE 14. BORING LOCATION 10

BHR-10: 6393.9'	U-total		Th-230		Ra-226	
0.0-1.0	1.07 ±	0.09	0.691 ±	0.092	2.16 ±	0.11
1.0-2.0	1.02 ±	0.09	0.685 ±	0.089	0.672 ±	0.071
2.0-3.0	1.26 ±	0.10	0.787 ±	0.098	0.834 ±	0.076
3.0-4.0	1.13 ±	0.09	0.791 ±	0.097	0.684 ±	0.076
4.0-5.0	1.08 ±	0.09	0.752 ±	0.094	0.541 ±	0.068
5.0-6.0	0.98 ±	0.09	0.649 ±	0.090	0.658 ±	0.073
6.0-7.0	1.20 ±	0.10	0.97 ±	0.11	0.701 ±	0.072
7.0-8.0	0.95 ±	0.15	0.664 ±	0.094	0.498 ±	0.066
8.0-9.0	1.16 ±	0.10	0.685 ±	0.095	0.602 ±	0.070
9.0-10.0	1.03 ±	0.09	0.639 ±	0.090	0.557 ±	0.069

TABLE 16. BORING LOCATION 12

BHR-12: 6299.0'	U-total		Th-230		Ra-226	
0.0-1.0	6.01 ±	0.26	1.74 ±	0.16	1.74 ±	0.11
1.0-2.0	5.92 ±	0.27	1.52 ±	0.14	1.292 ±	0.098
2.0-3.0	5.20 ±	0.24	1.65 ±	0.15	1.100 ±	0.090
3.0-4.0	5.32 ±	0.24	1.18 ±	0.12	1.127 ±	0.093
4.0-5.0	3.30 ±	0.18	1.15 ±	0.12	1.284 ±	0.089
5.0-6.0	4.10 ±	0.19	0.99 ±	0.12	0.959 ±	0.083
6.0-7.0	2.02 ±	0.13	0.85 ±	0.10	0.886 ±	0.078
7.0-8.0	1.95 ±	0.13	1.15 ±	0.12	0.965 ±	0.083
8.0-9.0	1.81 ±	0.13	0.724 ±	0.096	0.991 ±	0.076
9.0-10.0	2.60 ±	0.15	1.73 ±	0.15	0.950 ±	0.078

TABLE 18. BORING LOCATION 14

BHR-14: 6354.5'	U-total		Th-230		Ra-226	
0.0-1.0	2.38 ±	0.19	1.15 ±	0.12	1.132 ±	0.091
1.0-2.0	1.56 ±	0.14	1.21 ±	0.12	0.953 ±	0.083
2.0-3.0	1.20 ±	0.13	0.91 ±	0.10	0.711 ±	0.080
3.0-4.0	1.32 ±	0.14	1.02 ±	0.11	0.920 ±	0.088
4.0-5.0	1.65 ±	0.16	1.14 ±	0.12	1.405 ±	0.099
5.0-6.0	1.40 ±	0.14	1.21 ±	0.12	1.231 ±	0.094
6.0-7.0	1.18 ±	0.12	0.95 ±	0.10	1.009 ±	0.085
7.0-8.0	1.06 ±	0.11	0.89 ±	0.10	0.688 ±	0.077
8.0-9.0	1.13 ±	0.12	0.782 ±	0.095	0.708 ±	0.079
9.0-10.0	1.17 ±	0.11	0.825 ±	0.097	0.775 ±	0.079

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LOCATION	NORTHING	EASTING	ELEVATION
BS-1*	13321.9	13087.1	6269.8
BS-1	12846.7	13105.2	6271.0
BS-2*	11565.8	11101.3	6315.2
BS-2	10646.6	11338.2	6382.9
BS-3	11376.0	10974.0	6323.3'
BS-4	10362.5	8485.8	6308.7'
BS-5	8348.5	5592.0	6309.6'
BS-6	7325.8	5857.0	6349.0'
BS-7	7388.6	5422.2	6325.5'
BS-8	6394.9	5425.3	6352.7'
BS-9	3221.6	13071.2	6338.7'
BS-10	3902.7	14226.5	6319.7'
BS-11	5833.7	15885.3	6297.0'
BS-12	5219.4	13677.5	6346.3'
BS-13	2963.1	9825.4	6379.2'
BS-14	3486.1	11140.2	6378.9'
BS-15	11140.2	16454.5	6426.8'
BS-16	9437.3	17687.5	6359.9'

\* NEW BACKGROUND SAMPLES

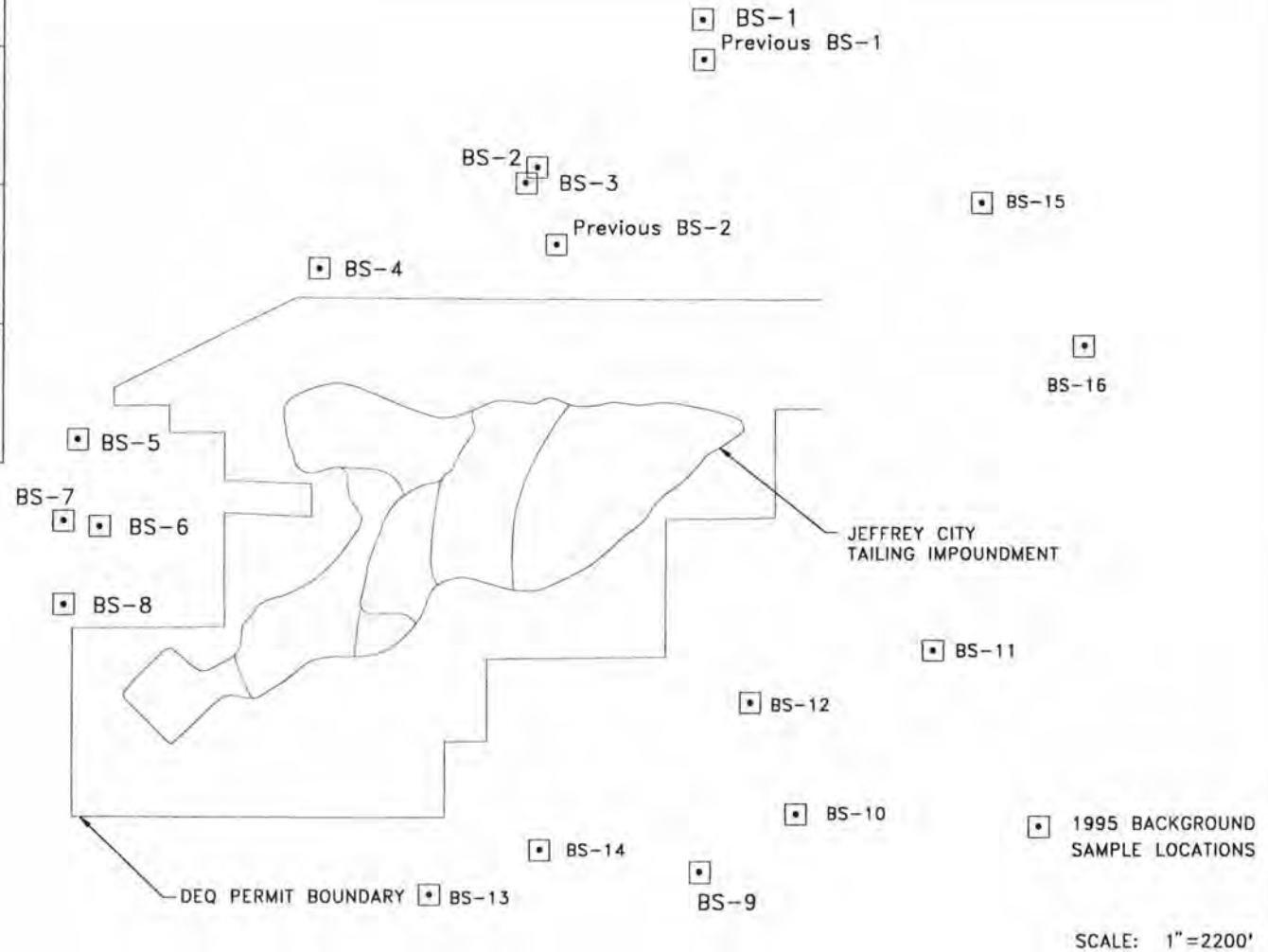


FIGURE 1  
1995 BACKGROUND SAMPLE LOCATIONS

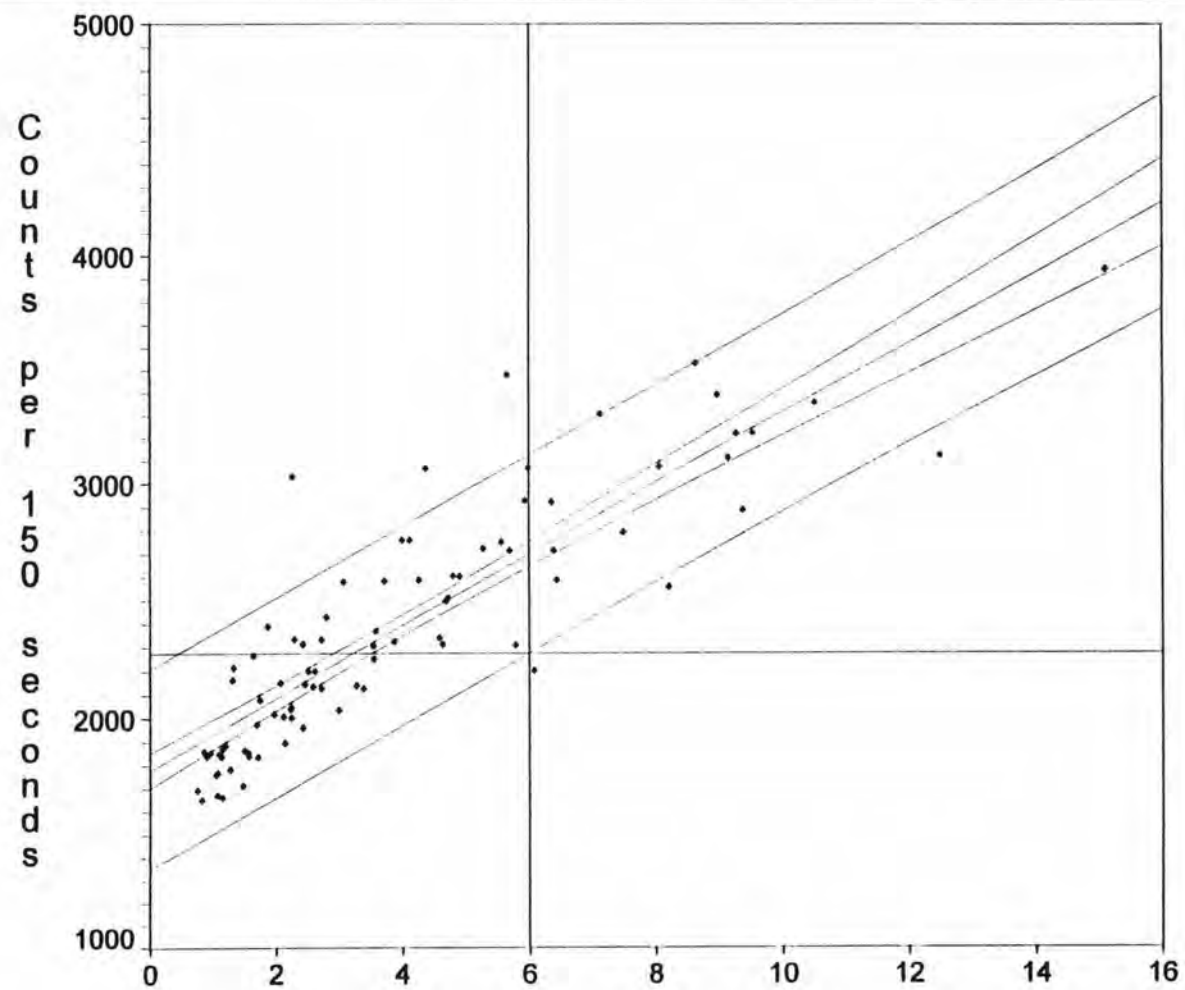
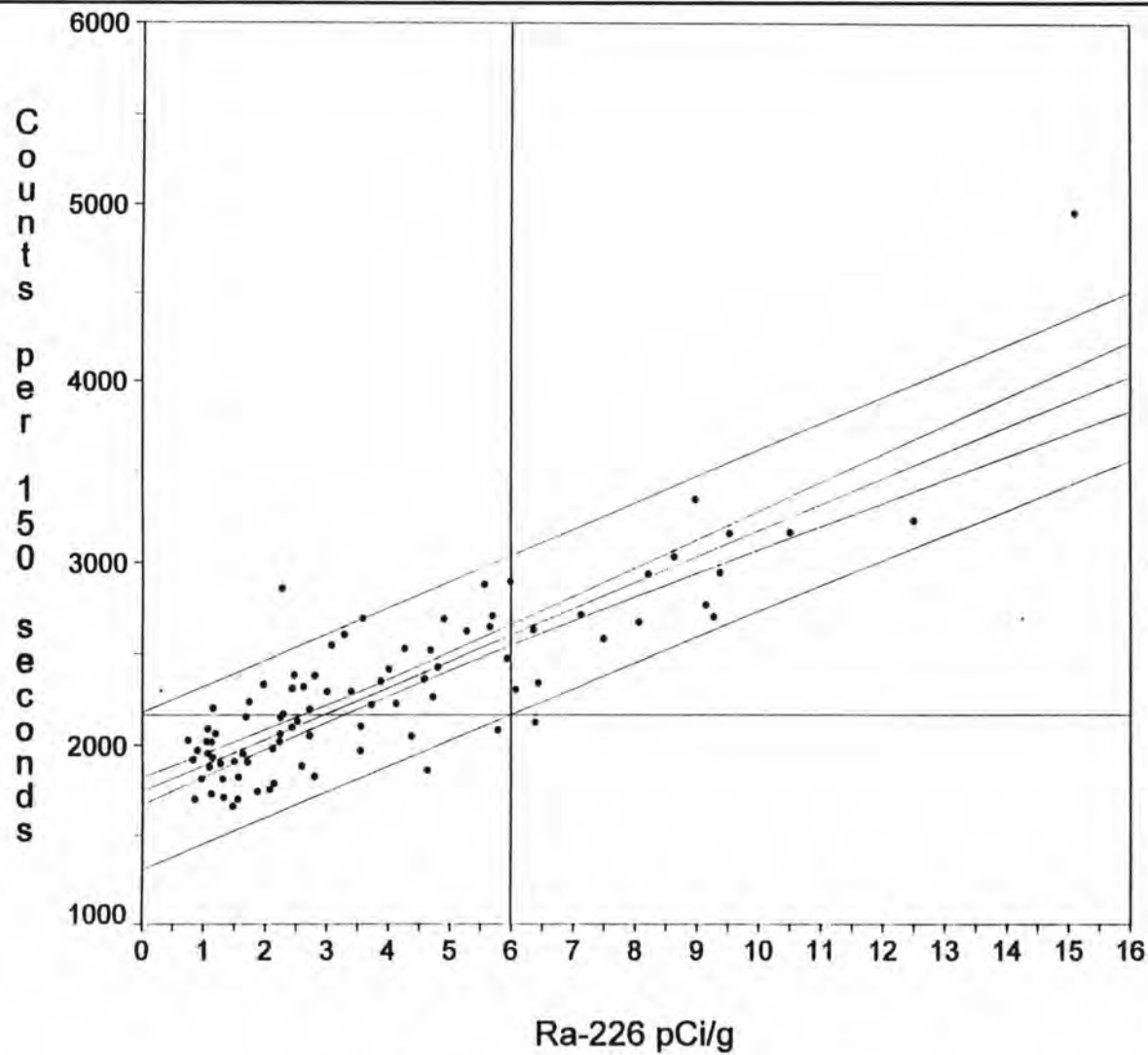


FIGURE 2  
INTEGRATED COUNT CORRELATION

Date:	Jan., 1996
Project:	09-355
File:	Title



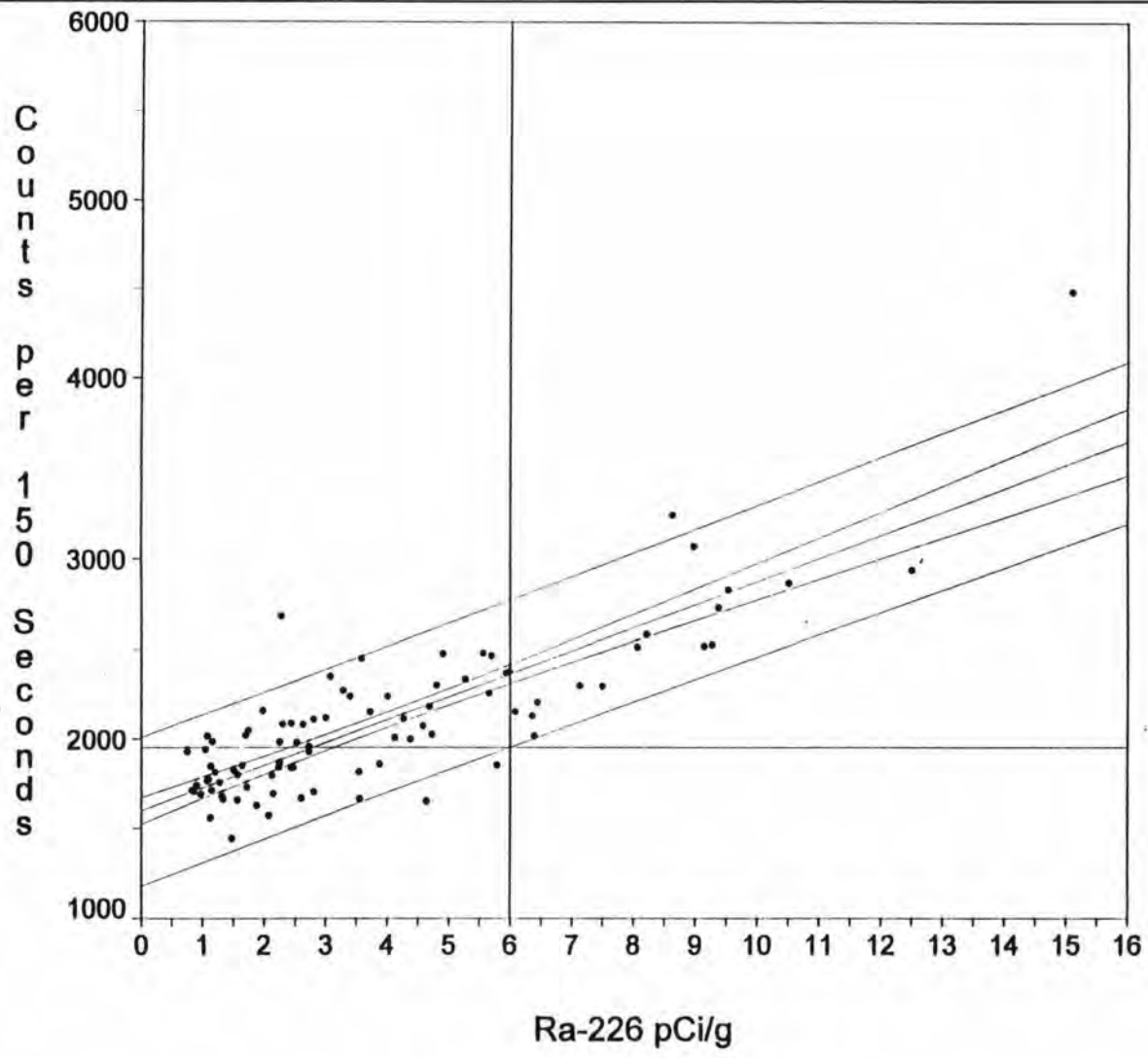
Slope = 143:1 Count = 2167@6.00 pCi/g

Rsq = 0.7264



FIGURE 3  
COMPOSITE CORRELATION FOR 98631

Date:	Jan., 1996
Project:	09-355
File:	Title



Slope = 128:1 Count = 1952@6.00 pCi/g

Rsq = 0.7045



FIGURE 4  
COMPOSITE CORRELATION FOR 110644

Date:	JAN. 1996
Project:	09-355
File:	TITLE

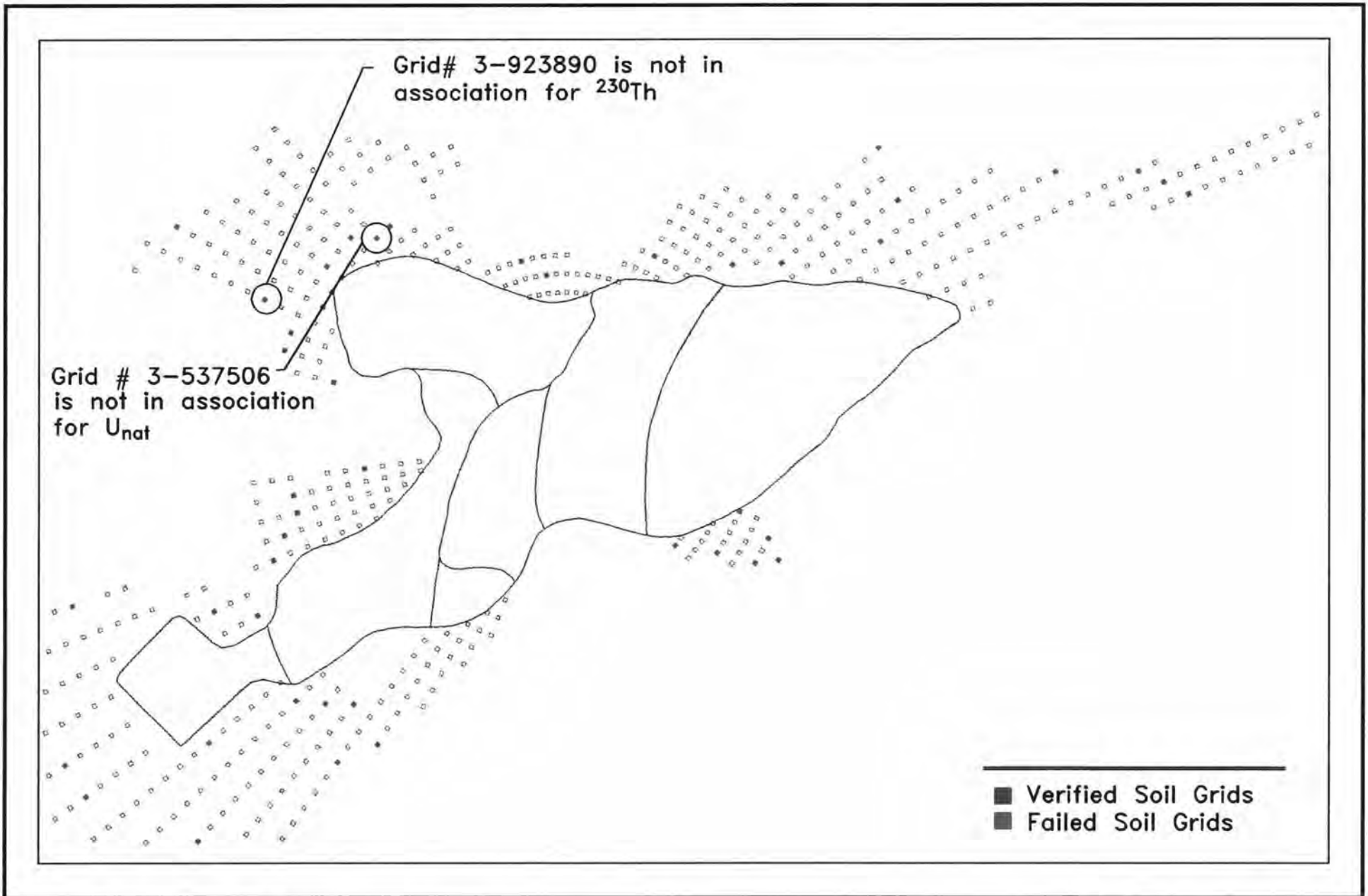


FIGURE 5  
QUESTIONABLE ASSOCIATION GRIDS

Date:	JAN, 1996
Project:	09-355
File:	QUESGRID



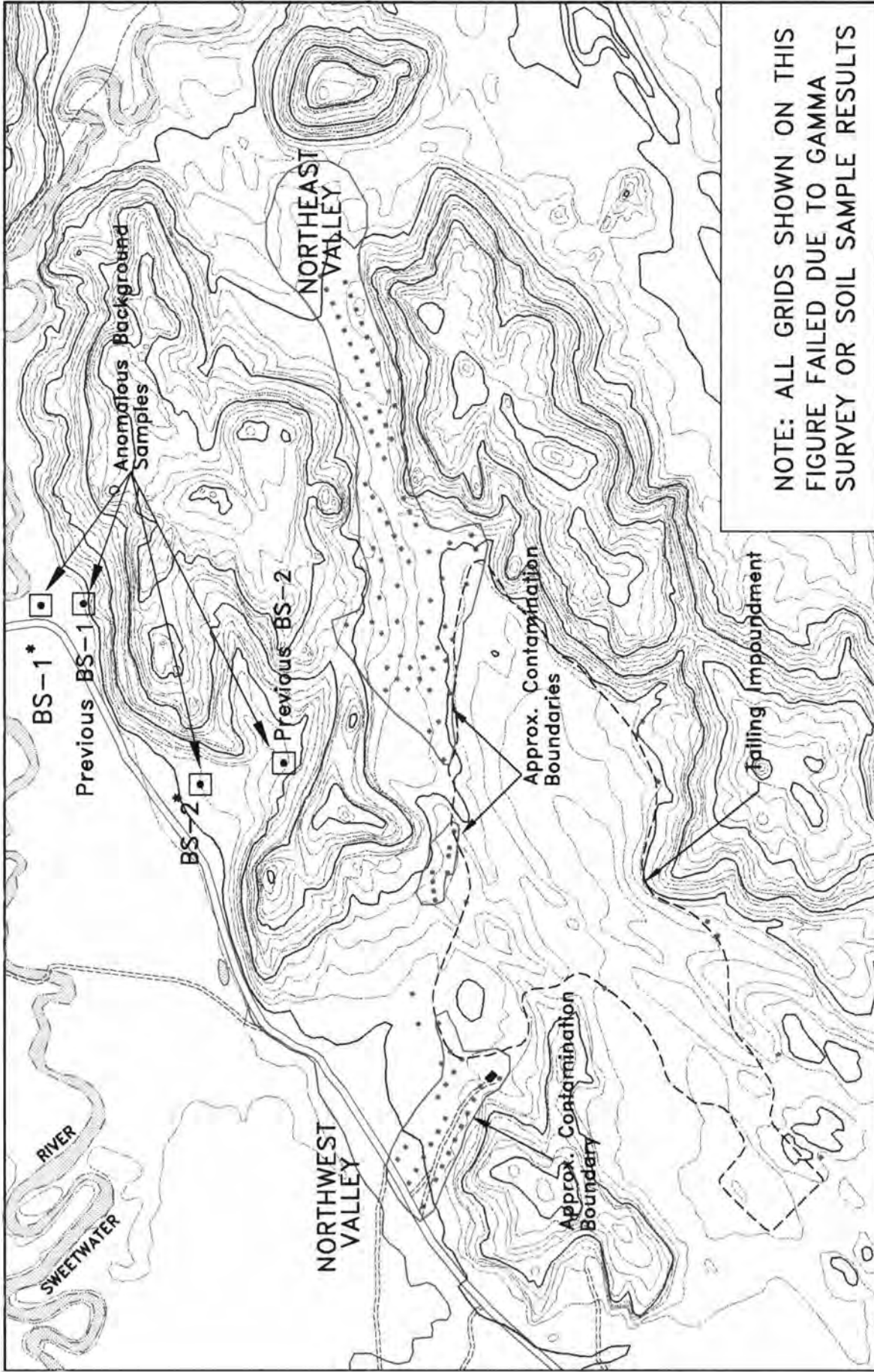
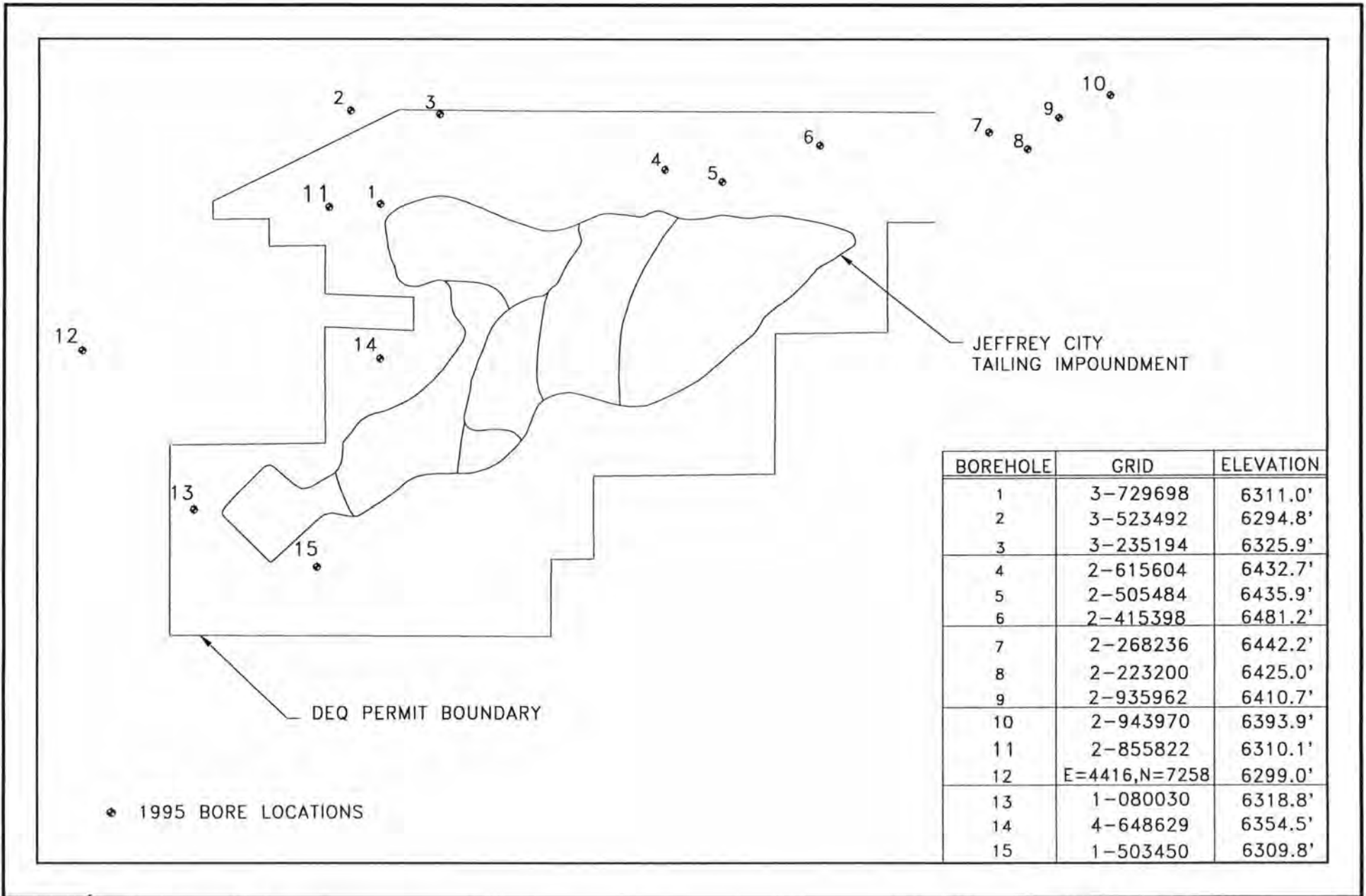


FIGURE 6  
 SPLIT ROCK MILL SITE  
 AREA OF CONTAMINATION



BOREHOLE	GRID	ELEVATION
1	3-729698	6311.0'
2	3-523492	6294.8'
3	3-235194	6325.9'
4	2-615604	6432.7'
5	2-505484	6435.9'
6	2-415398	6481.2'
7	2-268236	6442.2'
8	2-223200	6425.0'
9	2-935962	6410.7'
10	2-943970	6393.9'
11	2-855822	6310.1'
12	E=4416,N=7258	6299.0'
13	1-080030	6318.8'
14	4-648629	6354.5'
15	1-503450	6309.8'



FIGURE 7  
1995 BORE LOCATIONS

Date: JAN., 1996  
Project: 09-355  
File: BOREFIG

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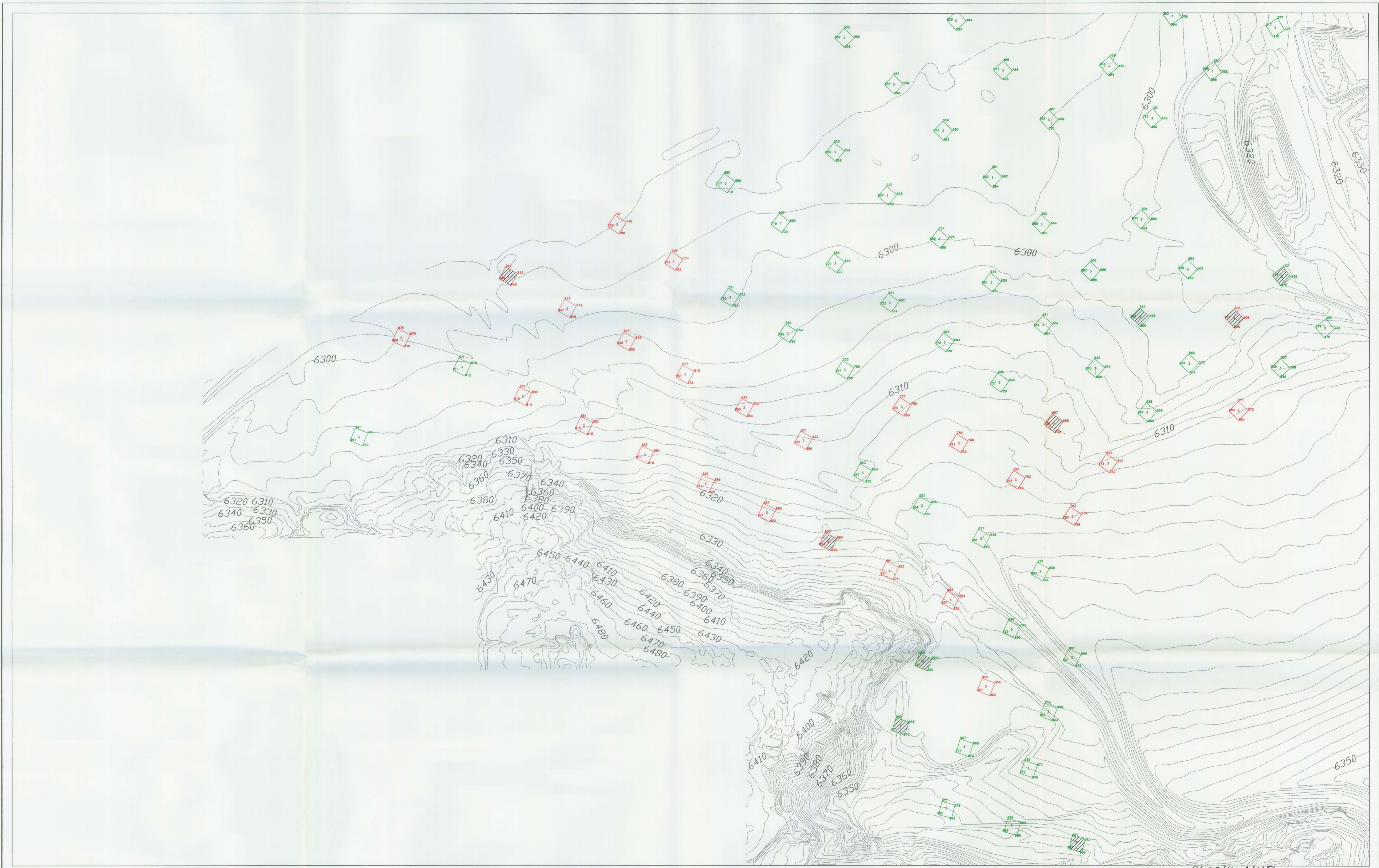
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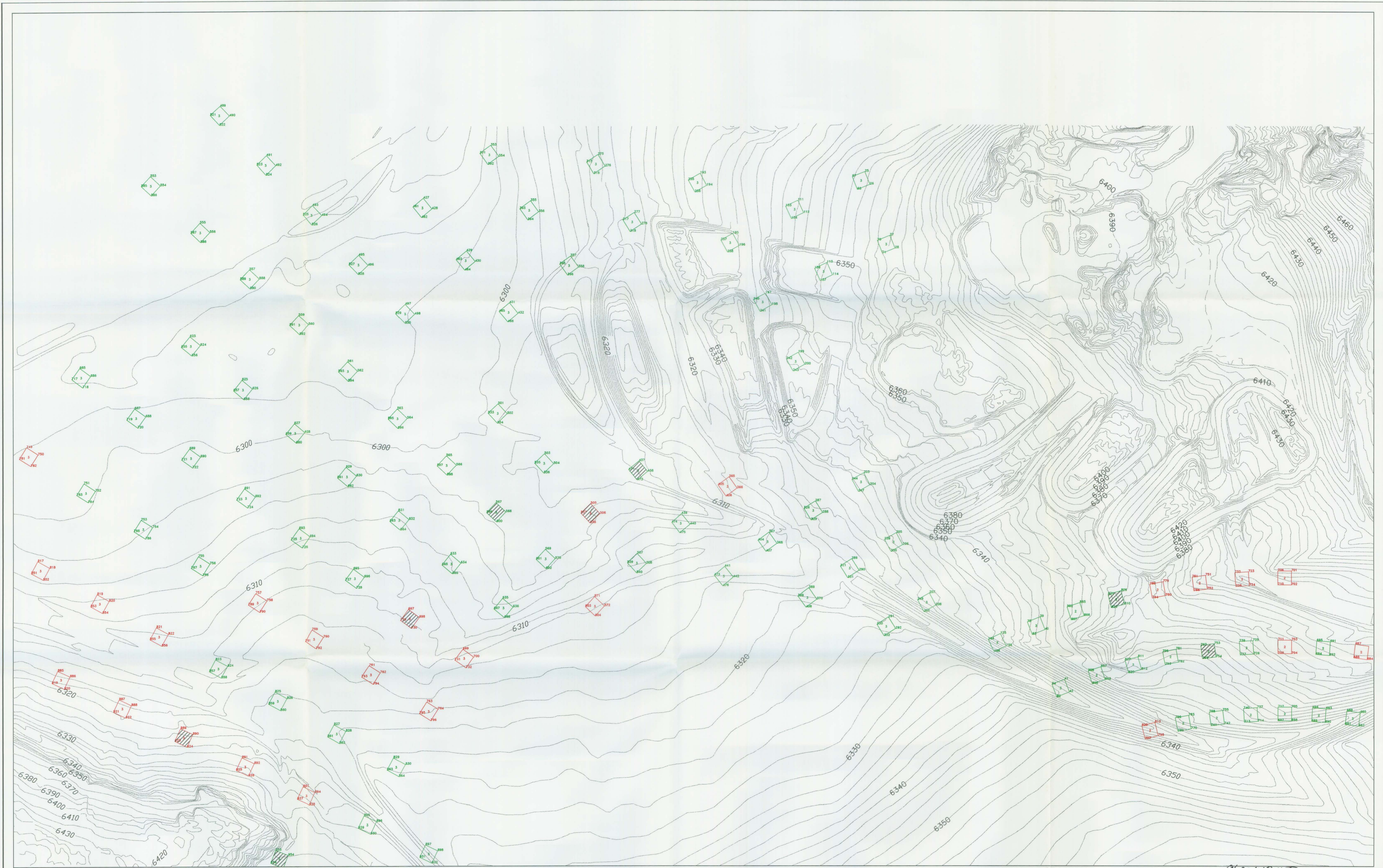


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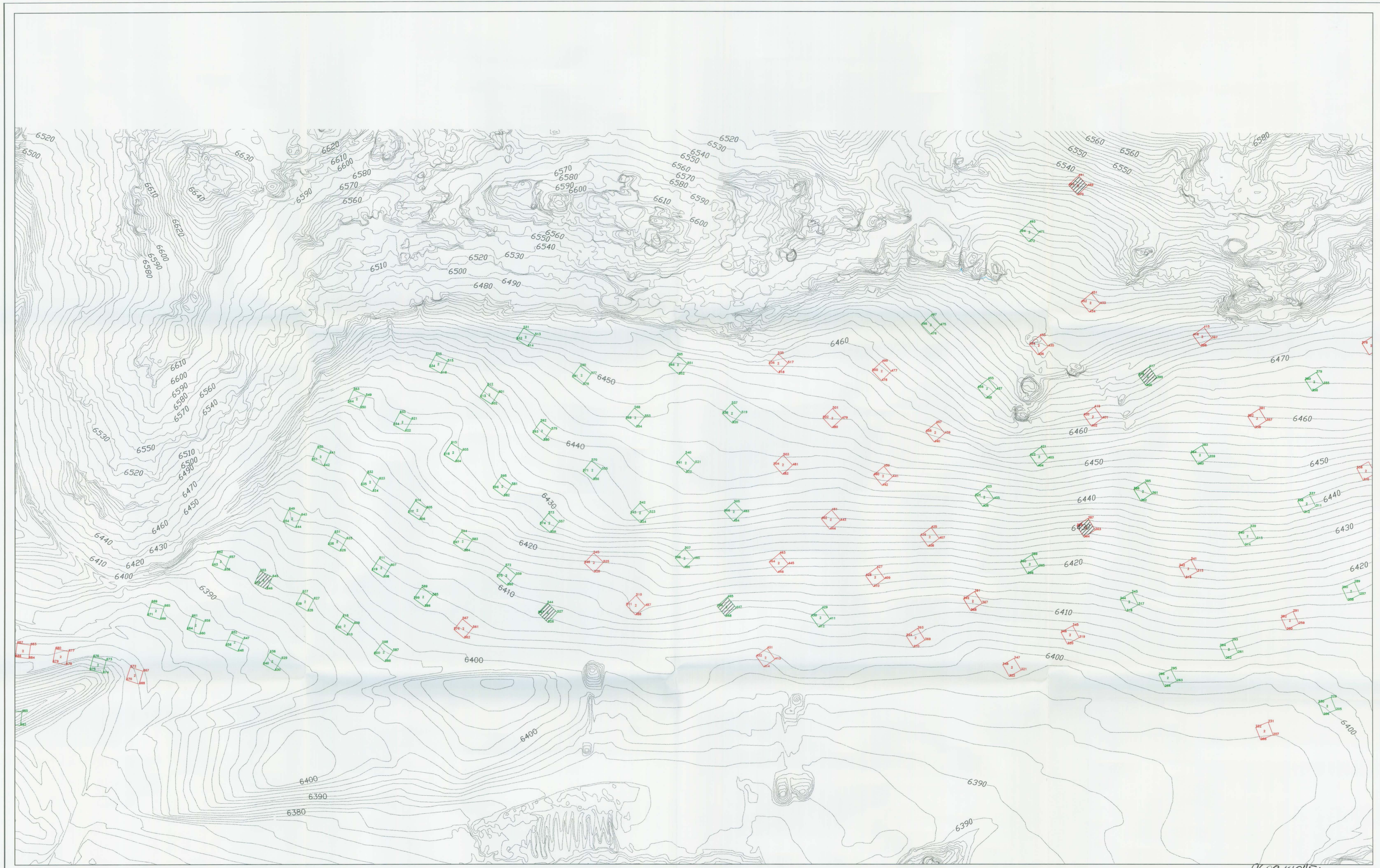


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


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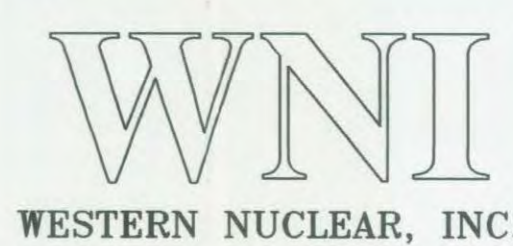
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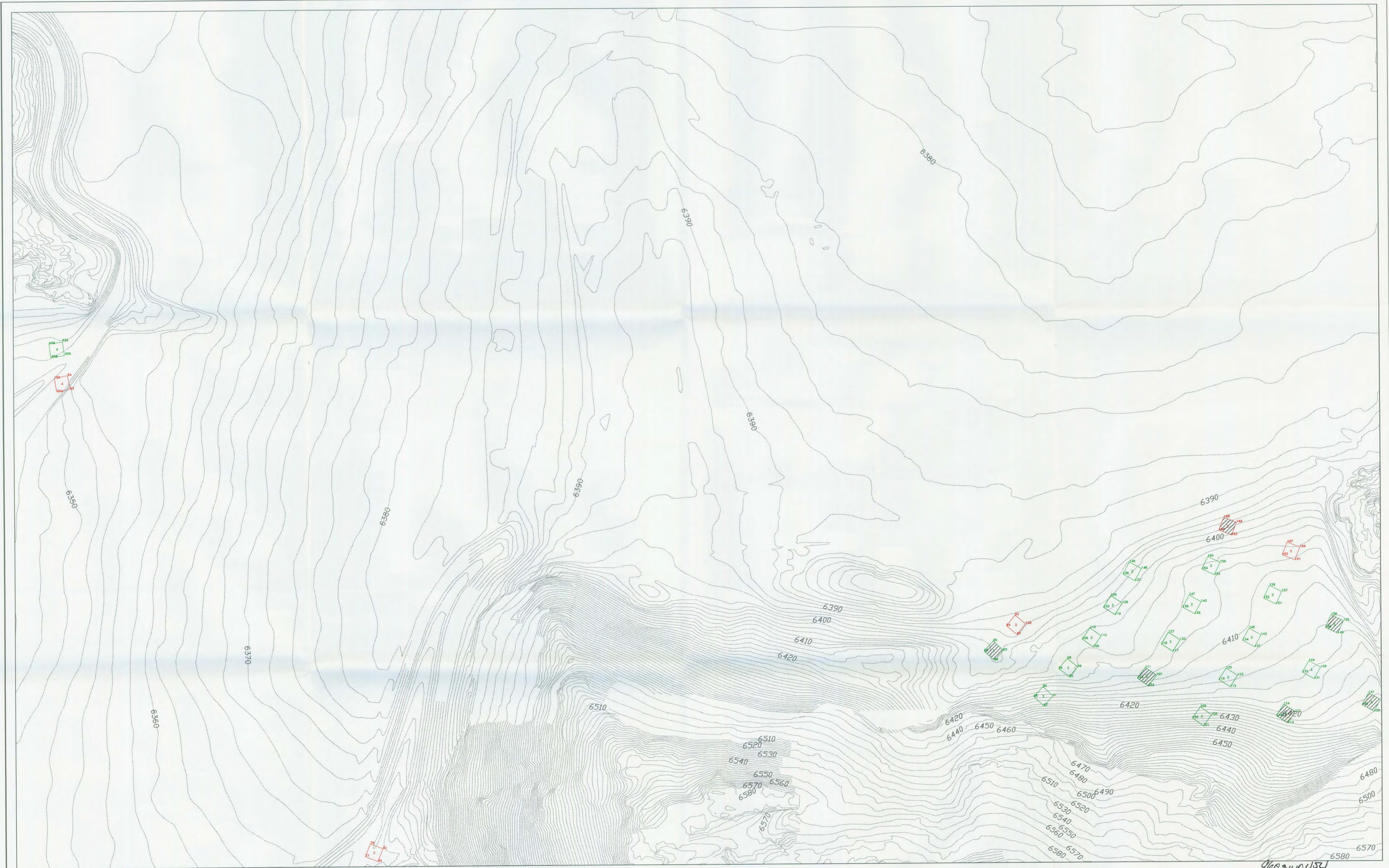
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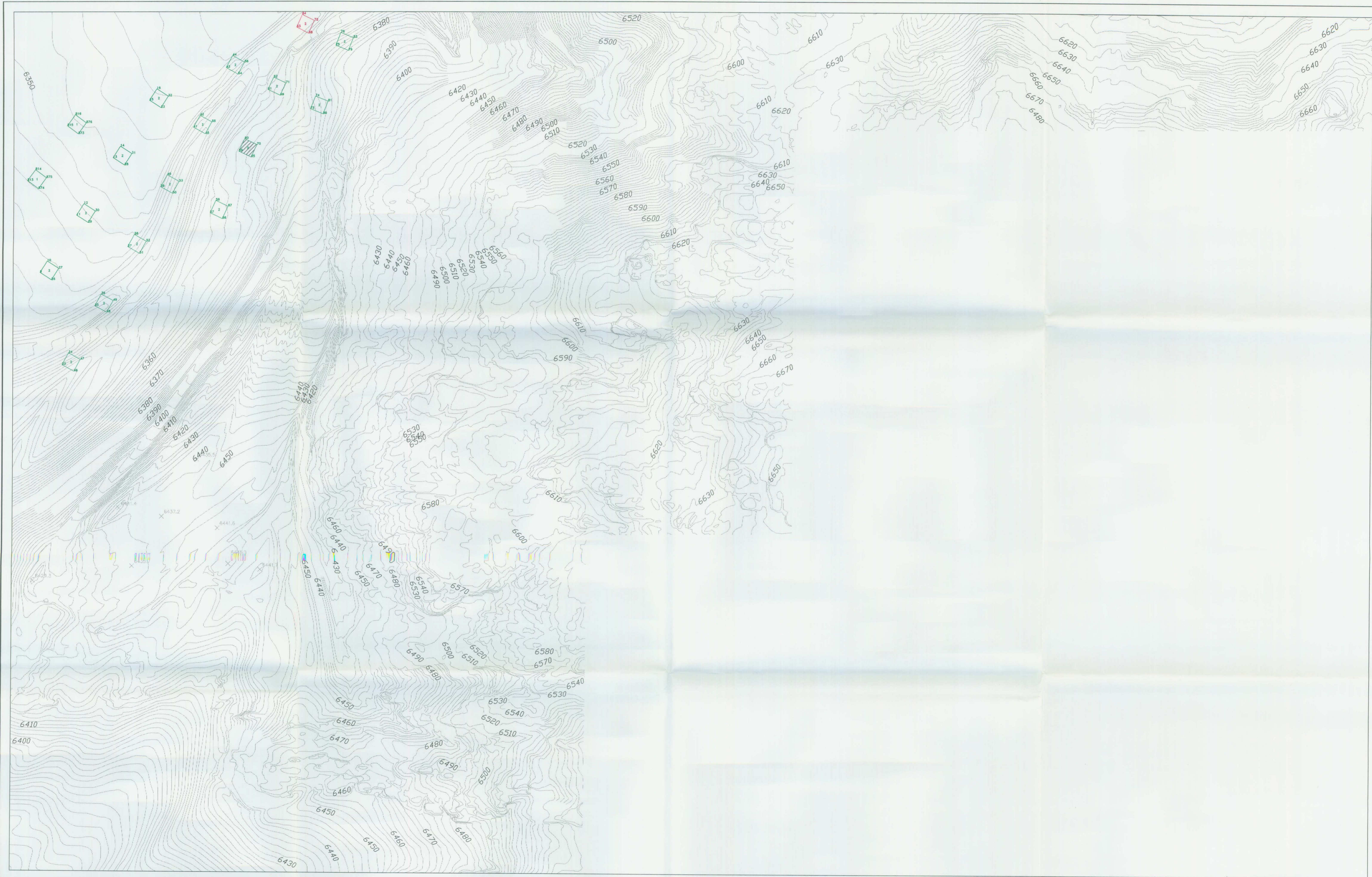
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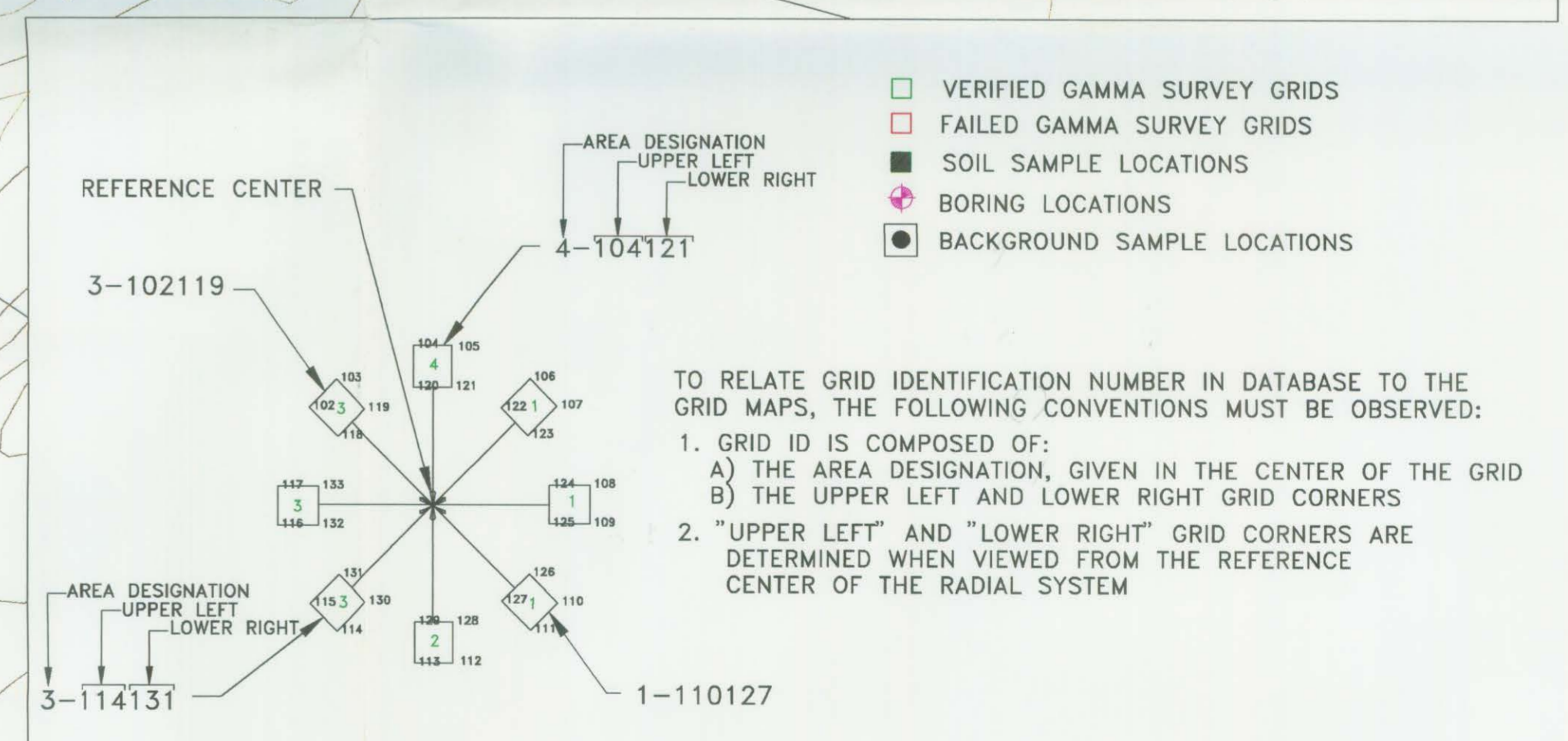
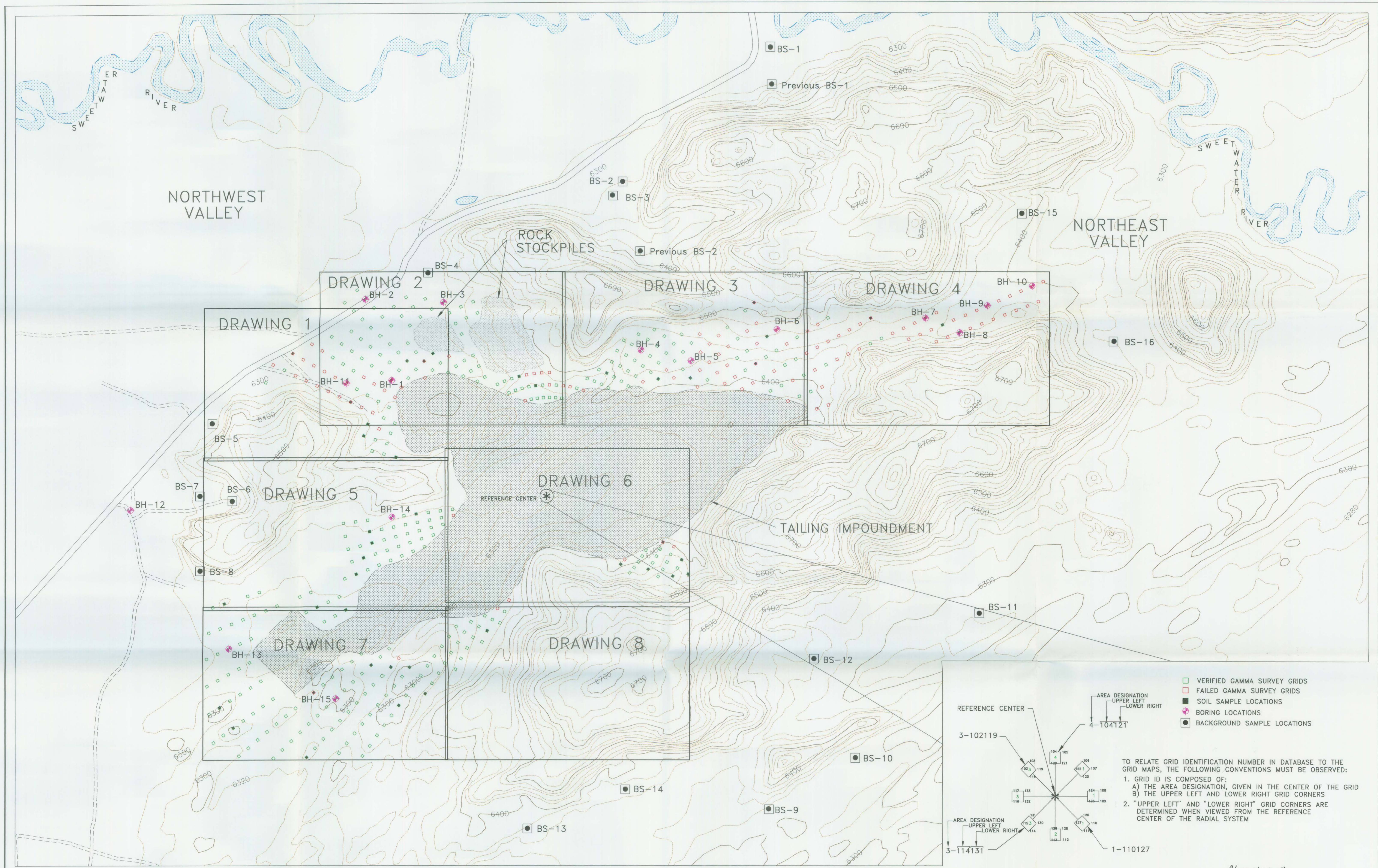


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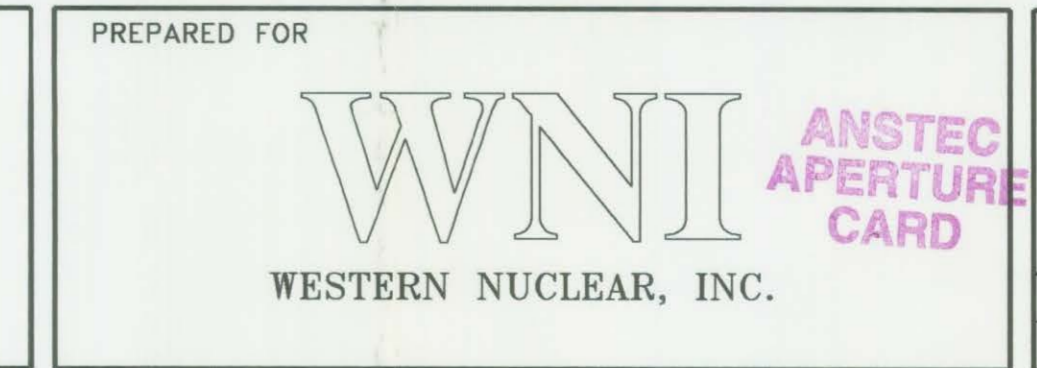
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