

**RADIOLOGIC AND ENGINEERING ASSESSMENT**

FOR

DOE ID NO.: GJ-00110-RS  
ADDRESS: 2524 MESA AVENUE

JULY 1985

FOR

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT OFFICE

ALBUQUERQUE OPERATIONS OFFICE

DEPARTMENT OF ENERGY

BY

BENDIX FIELD ENGINEERING CORPORATION  
P.O. Box 1569  
Grand Junction, Colorado 81502

APPROVED BY

M.K. Tucker *MDH*  
M. TUCKER  
DOE PROJECT ENGINEER

DATE

July 9, 1985

REA00110:REA-609

8508020129 850709  
PDR WASTE  
WM-54 PDR

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 EXECUTIVE SUMMARY . . . . .	1
1.1 Introduction . . . . .	1
1.2 Evaluation and Recommendation . . . . .	1
2.0 PROPERTY DESCRIPTION . . . . .	2
2.1 General Description . . . . .	2
2.2 Existing Facilities and Structures . . . . .	2
3.0 RADIOLOGIC SURVEY . . . . .	4
3.1 Introduction . . . . .	4
3.2 Gamma Exposure-Rate Surveys . . . . .	4
3.2.1 Exterior Findings . . . . .	4
3.2.2 Interior Findings . . . . .	4
3.3 Boreholes, Soil Samples, and Other Measurements . . . . .	4
3.4 Radon/Radon Daughter Concentration . . . . .	4
3.5 Extent of Contamination . . . . .	5
4.0 RECOMMENDED REMEDIAL ACTION . . . . .	6
4.1 Decontamination and Restoration . . . . .	6
4.2 Evaluation of Recommended Remedial Action . . . . .	6
5.0 REFERENCES . . . . .	7
6.0 APPENDIX . . . . .	8

## 1.0 EXECUTIVE SUMMARY

### 1.1 Introduction

The location, DOE ID No. GJ-00110-RS, is a single-family residence located at 2524 Mesa Avenue, Grand Junction, Colorado.

The purpose of this assessment is to evaluate the extent of uranium millsite contamination at this property and present a recommendation based on this assessment.

### 1.2 Evaluation and Recommendation

It is recommended that no remedial action be performed on this property (as discussed in Section 4.0) and that a Property Completion Report be prepared for use in the DOE certification process. The identified residual radioactive material found on this property is tailings; the estimated volume is: exterior, 6 cu. yd.; interior, 0 cu. yd.

Clean-up of the interior of this residence was previously performed by CDH under GJRAP.

## 2.0 PROPERTY DESCRIPTION

### 2.1 General Description

Address: 2524 Mesa Avenue, Grand Junction, Colorado

Zoning: Residential (RSF-8)

Lot Size: Approximately 6,900 sf (0.2 acre)

Legal Description: E 60 Ft of W 180 Ft of Lot 12, Block 2, Melrose Subdivision, City of Grand Junction, State of Colorado.

Point of Reference: This property is located approximately 2 miles northeast of the State of Colorado Tailings Repository. Appendix Figure 2.1 shows the property location relative to its surroundings.

Utilities: Utility locations are shown in Appendix Figure 2.2.

Electrical:	Overhead
Gas:	Underground
Telephone:	Overhead
Sewer:	Underground
Water:	Underground
Cable TV:	Overhead

Bordering Properties:

North:	Alley
South:	Mesa Avenue
East:	Single-family residence
West:	Single-family residence

### 2.2 Existing Facilities and Structures

Primary Structure:

Type:	Single-story residence
Size:	Approximately 2,188 sf including basement
Construction Date:	1958
Construction:	Wood-frame
Foundation:	Concrete wall on spread footing
Footing Depth:	Approximately 81" to bottom of footing from grade
Basement:	Yes (partial)
Crawl Space:	Yes (partial)
Condition:	Good

Other Structures:

Type:	Shed
Size:	Approximately 25 sf
Construction:	Wood-frame
Foundation:	Concrete slab-on-grade
Condition:	Good

General Remarks:

Structures, utilities, landscaping, and other special features of this property are included in Appendix Figure 2.2.

Historical Data:

This structure is not over 50 years old. Therefore, it does not meet the eligibility criteria for consideration of inclusion on the National Register of Historic Places.

### 3.0 RADIOLOGIC SURVEY

#### 3.1 Introduction

Radiologic data were collected by Bendix at DOE ID No. GJ-00110-RS on May 31, 1985. Data collection methods were performed in accordance with procedures fully described in the Radiologic Support Operations Procedures Manual GJ-07(84) (Bendix Field Engineering Corporation, 1984). These data were evaluated to determine the areal and vertical extent of uranium mill tailings contamination at this property as well as any other contaminated material that may have originated from the millsite.

A review of historical information from the files of the Colorado Department of Health (CDH) and the inclusion data from Oak Ridge National Laboratory (ORNL) was conducted. These records indicate elevated gamma readings associated with the sidewalk that extends from the primary structure to the city sidewalk, along the eastern property boundary, and the foundation of the primary structure.

The Bendix radiologic survey was designed to investigate the entire property, with emphasis on previously identified areas of contamination. Conclusions based upon data analyses are discussed in Section 3.5, Extent of Contamination. Photocopies of the Official Survey Report, team leader notes, deconvolution graphs, and Exterior Gamma Scan map are included in the Appendix (Section 6.0).

#### 3.2 Gamma Exposure-Rate Surveys

##### 3.2.1 Exterior Findings

Background Readings: 15 to 17 uR/h  
Highest Outside Gamma Reading (HOG): 42 uR/h

Exterior radium-concentration measurements are presented in Appendix Table 3.1. Grid-point survey results are shown in Appendix Figure 3.1.

##### 3.2.2 Interior Findings

Remedial action was performed on the interior of the primary structure under the GJRAP program in August of 1977; therefore, no interior gamma survey was performed by Bendix.

#### 3.3 Boreholes, Soil Samples, and Other Measurements

Areas which displayed elevated gamma levels were further investigated; these areas are shown in Appendix Figure 3.2. Data from these investigations are included in Appendix Table 3.1.

#### 3.4 Radon/Radon Daughter Concentration (RDC)

Determined by CDH: 0.008 gross working level (WL) after remedial action. No additional measurements were taken by Bendix.



### 3.5 Extent of Contamination

Appendix Figure 3.3 shows identified areas and estimated depths of contamination on this property, based on assessments of all measurements taken. As noted in this figure, areas recommended for remedial action that contain identified residual radioactive materials are:

- (AREA A) The 6-inch-thick concrete sidewalk that extends from the primary structure to the city sidewalk is contaminated (approximately 87 sf).
- (AREA B) The concrete stoop located at the south entrance of the primary structure is contaminated. The stoop is 28 inches in height (approximately 30 sf).
- (AREA C) A deposit of soil along the eastern property boundary is contaminated to a depth of 6 inches (approximately 84 sf).
- (AREA D) A small 5-inch-thick concrete pad at the north end of the carport is contaminated (approximately 3 sf).

#### 4.0 RECOMMENDED REMEDIAL ACTION

##### 4.1 Decontamination and Restoration

We do not recommend decontamination and restoration of this property. It is recommended that no remedial action be performed and that a brief Property Completion Report be prepared for use in the DOE certification process.

##### 4.2 Evaluation of Recommended Remedial Action

The recommendation that no remedial action be performed on this property is made because the levels of radioactivity on this property fall below the EPA Standards (40 CFR 192):

- (1) 5 pCi/g, averaged over the first 15 cm of soil below the surface; and
- (2) 15 pCi/g, averaged over 15-cm-thick layers of soil more than 15 cm below the surface.

Appendix Table 4.1 presents the area and volume calculations of contamination present on the property. Appendix Table 4.2 presents the calculations for concentrations of Radium-226 in soil for this location.



## 5.0 REFERENCES

ARIX, A Professional Corporation, Procedures Manual for the Grand Junction Remedial Action Program, for Colorado Department of Health, Radiation Control Division, and the U.S. Department of Energy, 1983.

Bendix Field Engineering Corporation, Procedures Manual Radiologic Support Operations Grand Junction Vicinity Properties, (GJ-07), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Engineering, Construction, and Land Support Manual Grand Junction Vicinity Properties Project, (GJ-08), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Grand Junction Vicinity Properties Operating Manual, (GJ-16) for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Vicinity Properties General Construction Specification, for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Environmental Assessment of Preliminary Cleanup Activities at Offsite Properties Contaminated by Tailings from the Grand Junction Inactive Uranium Millsite, (GJ-04), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1983.

U.S. Department of Energy, Programmatic Memorandum of Agreement (DOE No. DE-GM04-84AL28460) between the U.S. Department of Energy, the Advisory Council on Historic Preservation, and the Colorado State Historic Preservation Officer, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Department of Energy, Vicinity Properties Management and Implementation Manual, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Environmental Protection Agency, Standards for Remedial Action at Inactive Uranium Processing Sites (40 CFR Part 192), Washington, D.C., 1983.

## 6.0 APPENDIX

This Appendix contains the following:

Appendix Tables:

Table 3.1	Radium Concentrations at Exterior Locations
Table 4.1	Area and Volume Calculations
Table 4.2	Calculations for Concentration of Radium-226 in Soil

Appendix Figures:

Figure 2.1	Vicinity Map
Figure 2.2	Site Plan
Figure 3.1	Exterior Grid-Point Exposure Rates
Figure 3.2	Exterior Sample Locations
Figure 3.3	Estimated Extent of Contamination

Official Survey Report

Team Leader Notes

Deconvolution Graphs (Apparent Radium-226 Concentration)

Exterior Gamma Scan - Field Map

## Radium Concentrations at Exterior Locations

DOE ID #GJ-00110-RS

2524 Mesa Avenue

Page 1 of 4

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
1	160240	00	DS	1.8		*	Background DC = 0 inches
		03	TC	2.7		*	
		06	TC	3.1		*	
		09	TC	3.4		*	
		12	TC	3.5		*	
		15	TC	3.6		*	
		18	TC	3.5		*	
		21	TC	3.5		*	
		24	TC	3.5		*	
		27	TC	3.4		*	
		30	TC	3.1		*	
		33	TC	3.1		*	
		36	TC	3.1		*	
		39	TC	3.0		*	
2	180283	00	DS	4.8		*	Next to east fence
		06	DS	1.5		*	
3	182240	03	TC	2.8		*	Sewer DC = 0 inches
		06	TC	3.0		*	
		09	TC	3.2		*	
		12	TC	3.4		*	
		15	TC	3.4		*	
		18	TC	3.5		*	
		21	TC	3.6		*	
		24	TC	3.7		*	
		27	TC	3.8		*	
		30	TC	3.6		*	
		33	TC	3.3		*	
		36	TC	3.1		*	
		39	TC	3.0		*	
		42	TC	3.0		*	
		45	TC	3.0		*	
		48	TC	3.1		*	
		51	TC	3.1		*	
		54	TC	3.2		*	
		57	TC	3.3		*	
		60	TC	3.3		*	
		63	TC	3.3		*	
		66	TC	3.4		*	
		69	TC	3.2		*	
4	184233	00	DS	9.2		*	Concrete block

## Radium Concentrations at Exterior Locations

DOE ID #GJ-00110-RS

2524 Mesa Avenue

Page 2 of 4

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
5	198282	00	DS	1.3		*	East side of primary structure
		06	DS	1.1		*	
6	200239	00	DS	1.7		*	On driveway Horizontal
		[06]	DS	14.2		*	
7	200281	03	TC	3.5		*	DC = 0 inches
		06	TC	3.4		*	
		09	TC	3.4		*	
		12	TC	3.4		*	
		15	TC	3.4		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.4		*	
		30	TC	3.4		*	
		33	TC	3.3		*	
		36	TC	3.3		*	
		39	TC	3.2		*	
		42	TC	3.2		*	
		45	TC	3.3		*	
		48	TC	3.3		*	
		51	TC	3.3		*	
		54	TC	3.4		*	
		57	TC	3.4		*	
8	204225	00	DS	<1.0		*	West side of Primary structure
		06	DS	1.5		*	
9	220268	03	TC	2.8		*	Water line DC = 0 inches
		06	TC	2.9		*	
		09	TC	3.0		*	
		12	TC	3.0		*	
		15	TC	3.1		*	
		18	TC	3.1		*	
		21	TC	3.2		*	
		24	TC	3.3		*	
		27	TC	3.2		*	
		30	TC	3.2		*	

## Radium Concentrations at Exterior Locations

DOE ID #GJ-00110-RS

2524 Mesa Avenue

Page 3 of 4

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
9	220268	33	TC	3.3		*	
		36	TC	3.2		*	
		39	TC	3.2		*	
		42	TC	3.2		*	
		45	TC	3.2		*	
		48	TC	3.3		*	
		51	TC	3.3		*	
		54	TC	3.3		*	
		57	TC	3.3		*	
		60	TC	3.4		*	
		63	TC	3.3		*	
		66	TC	3.5		*	
10	220283	00	DS	1.5		*	
		06	DS	<1.0		*	
11	222260	00	DS	12.0		*	Concrete porch
12	226262	00	DS	2.1		*	Next to porch
		06	DS	1.8		*	beside steps
13	227260	00	DS	5.9		*	On sidewalk
14	227261	00	DS	3.2		*	Beside sidewalk
		06	DS	<1.0		*	
		12	DS	<1.0		*	
		12	DS	1.7		*	Horizontal
15	230281	00	DS	2.4		*	Gas line
		06	DS	2.4		*	
		14	DS	1.5		*	
16	250262	00	DS	1.9		*	On grass
		06	DS	1.2		*	

## Radium Concentrations at Exterior Locations

DOE ID #GJ-00110-RS

2524 Mesa Avenue

Page 4 of 4

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
17	254260	00	DS	4.8		*	Sidewalk
18	256260	00	DS	<1.0		*	City sidewalk

Measurement Types: GB = GAD-6 Borehole  
GS = GAD-6 Surface  
DS = Delta Scintillometer  
TC = Total Count Borehole  
SS = Soil Sample  
BH = Combined GAD-6 and  
Total Count Borehole

Notes: DC = Depth of Contamination  
\* = No Soil Sample Taken  
[n] = Reading Taken n-Inches  
Above Floor or Ground  
Date of Survey = 05-31-85  
Team Leader = DF



Table 4.1  
Area and Volume Calculations  
DOE ID No. GJ-00110-RS

Page 1 of 1

<u>AREA</u>	<u>CALCULATIONS(ft)</u>	<u>SF</u>	<u>DEPTH(ft)</u>	<u>CF</u>	<u>CUBIC YARDS</u>
EXTERIOR					
	Concrete				
A	29 x 3 =	87	x 0.5 =	44	
B	6 x 5 =	30	x 2.0 =	60	
D	1 x 3 =	3	x 0.4 =	1	
	Volume of Concrete			= 105 =	105/27 = 4
	Contaminated Fill				
C	21 x 4 =	84	x 0.5 =	42	
	Volume of Fill			= 42 =	42/27 = 2
	TOTAL VOLUME - EXTERIOR				= 6

NOTE: Total square feet of Areas A + B + C + D = 204 square feet  
204 square feet = 18.7 square meters

See Appendix Figure 3.3 For Areas

=====

$$C_{avg} = \frac{C_c \times A_c + C_b (100m^2 - A_c)}{100m^2}$$

Where

$C_{avg}$  = Concentration average (pCi/g)

$C_c$  = Concentration of Contamination (pCi/g)

$A_c$  = Area of Concentration (m<sup>2</sup>)

$C_b$  = Background Concentration (pCi/g)

$$C_{avg} = \frac{14.2 \times 18.7 + 2 (100 - 18.7)}{100}$$

$$C_{avg} = 3.5 < 7$$

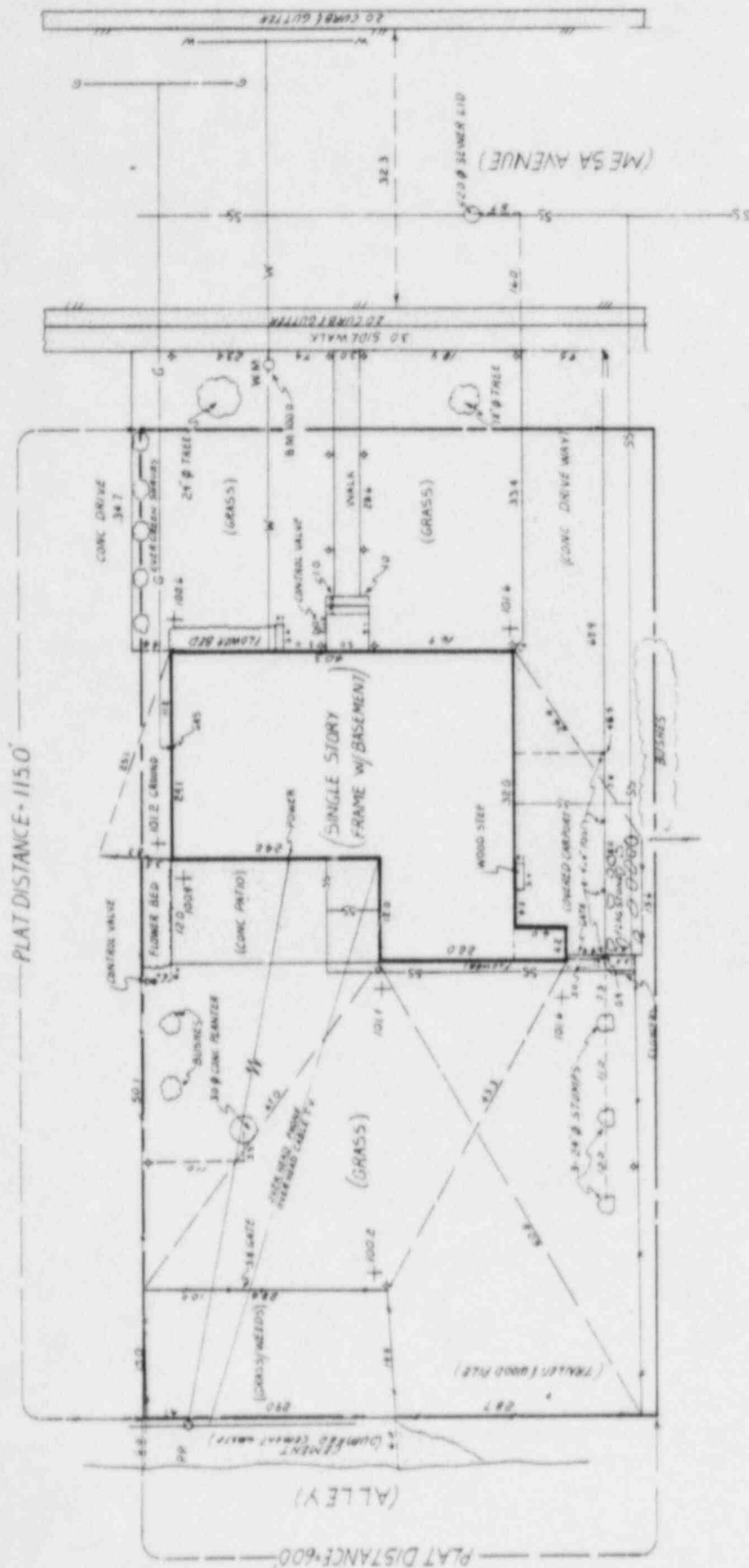
Therefore, concentration does not meet EPA Standards of 7 pCi/g

NOTE: Background Radium concentration for this area is 2 pCi/g

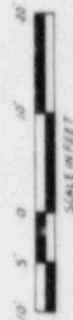
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LR062885  
REA00110/REA-609/LMR





LEGAL DESCRIPTION  
THE EAST 60 FT OF THE WEST 180 FEET  
OF LOT 12, BLOCK 2, MELROSE SUBDIVISION  
MESA COUNTY, COLORADO



This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a legal survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

U.S. DEPARTMENT OF ENERGY

GRAND JUNCTION PROJECT OFFICE, COLORADO

ADDRESS 2524 MESA AVENUE

GRAND JUNCTION, COLORADO

SURV. 81.8/15-17-83

DRAWING NO. 3-2-46a-1

DATE 10/10/85

67-00110-R5

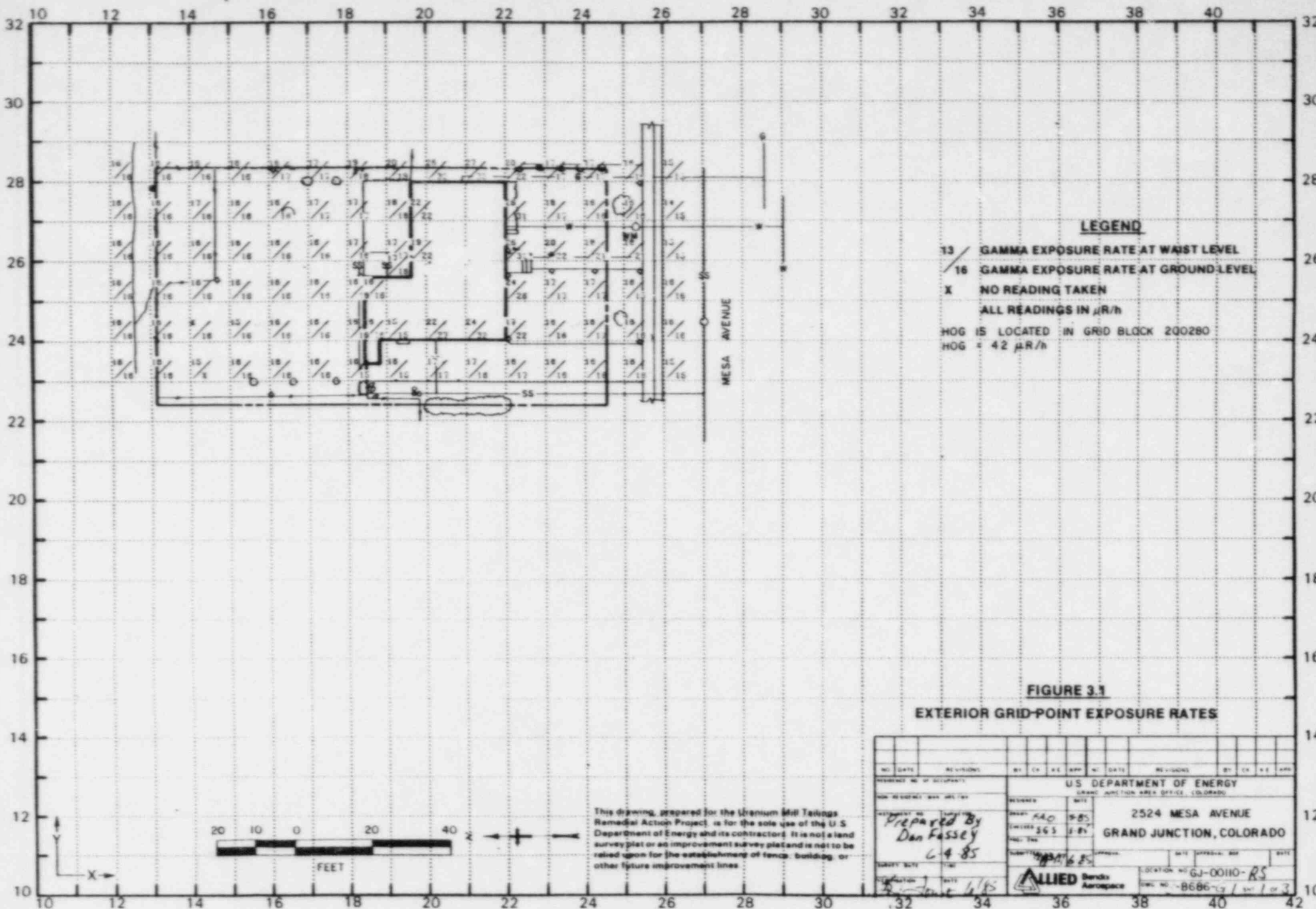
ALLIED

Survey Engineering Corporation

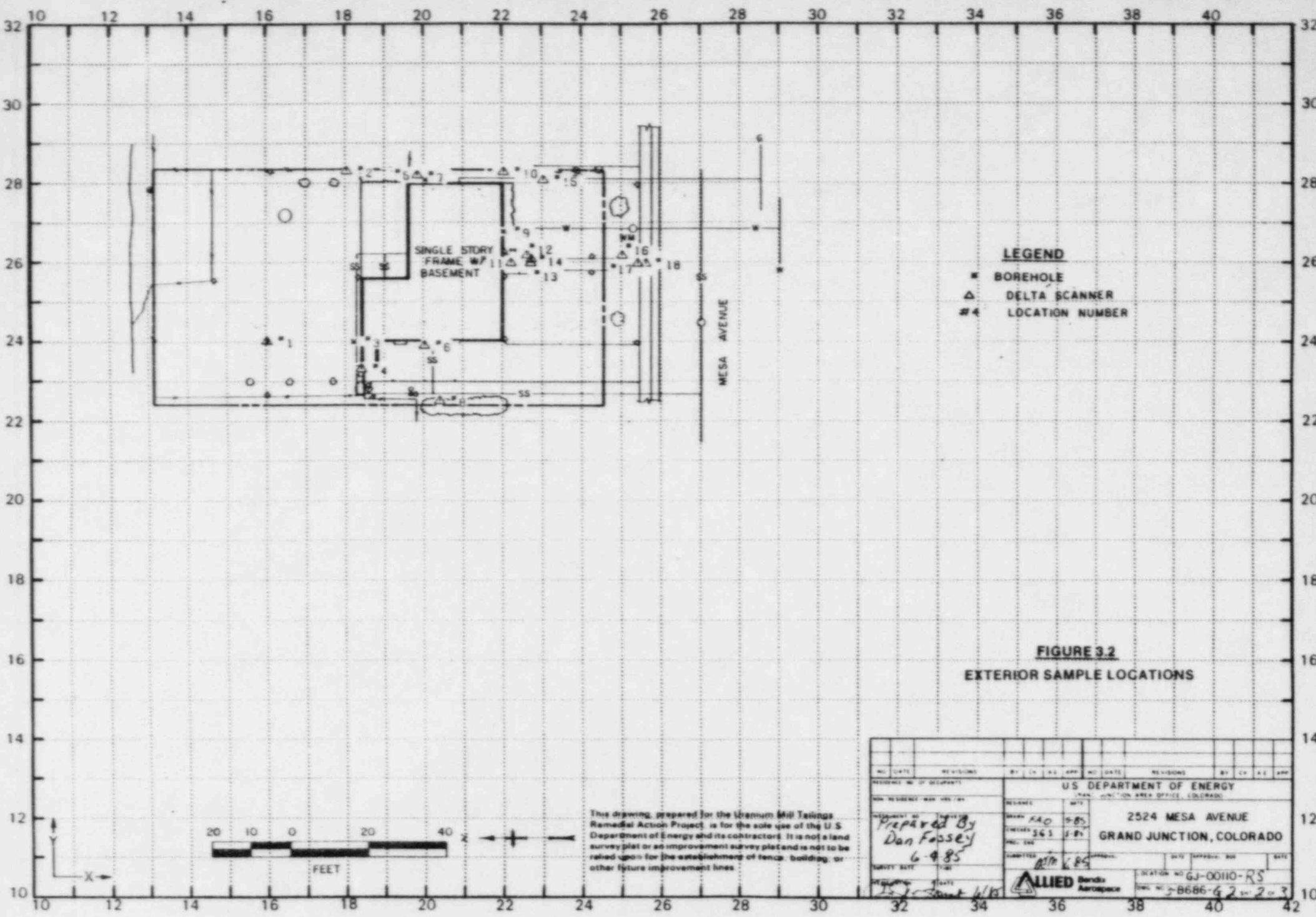
Grand Junction, Colorado

CR. NCE

SHEET 1 OF 1







**LEGEND**

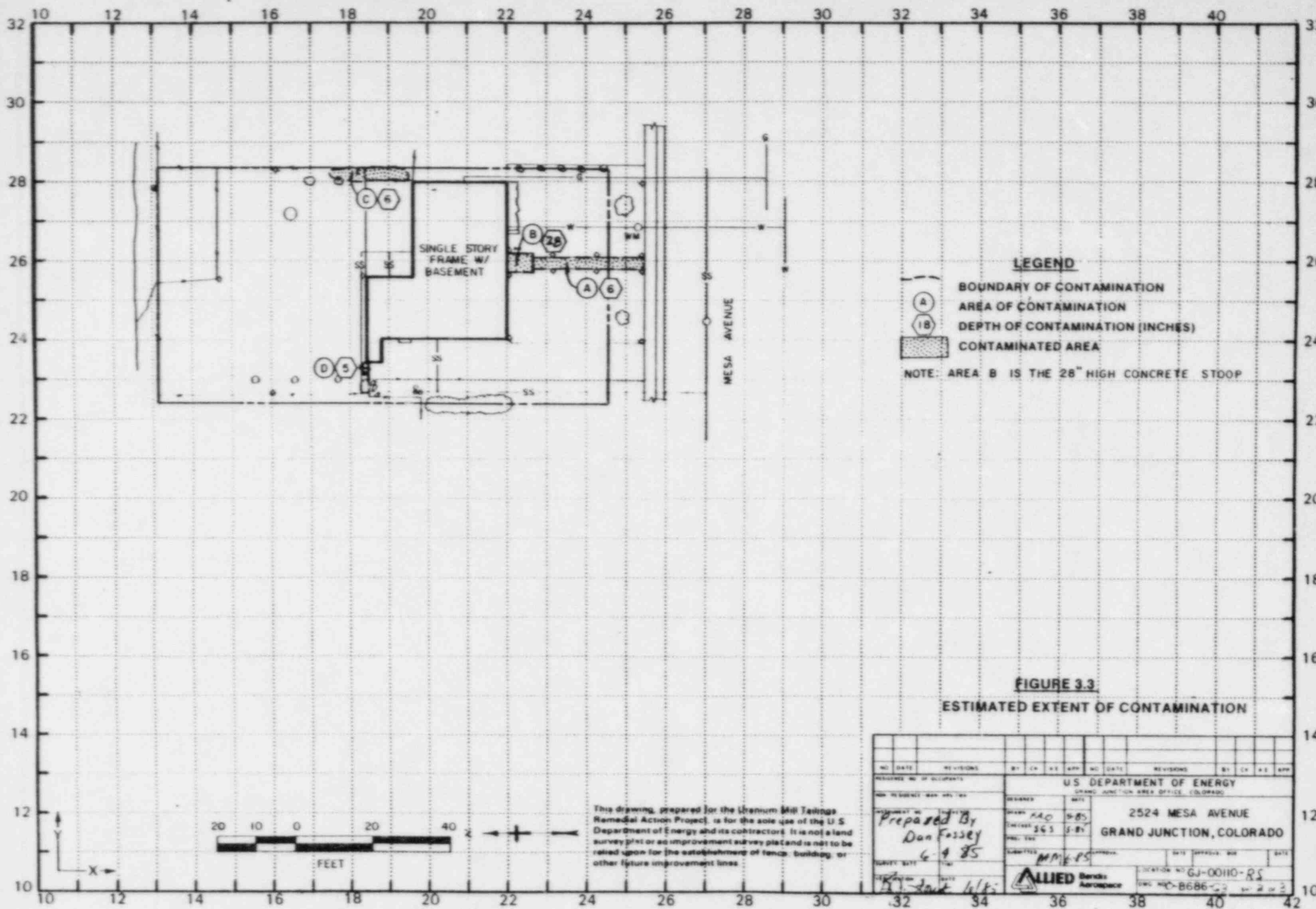
- BOREHOLE
- △ DELTA SCANNER
- #4 LOCATION NUMBER

**FIGURE 3.2**

**EXTERIOR SAMPLE LOCATIONS**

NO. DATE		REVISIONS		BY	CHK	DATE	APP	NO. DATE		REVISIONS		BY	CHK	DATE	APP
RESIDENTIAL NO. OF OCCUPANTS								U.S. DEPARTMENT OF ENERGY							
NON-RESIDENTIAL MAX. NO. / YR.								PLANT, GRAND JUNCTION AREA OFFICE, COLORADO							
PREPARED BY <i>Prepared By Dan Fossey 6-85</i>								2524 MESA AVENUE GRAND JUNCTION, COLORADO							
DRAWN <i>KAO</i> CHECKED <i>SAS</i> PROJ. ENG.								DATE <i>6-85</i> APPROVAL <i>ALLIED</i>							
SURVEY SITE <i>12-2-85</i>								LOCATION NO. <i>GJ-00110-RS</i> TOWNSHIP NO. <i>36-86-42</i>							





**FIGURE 3.3**  
**ESTIMATED EXTENT OF CONTAMINATION**

NO. DATE REVISIONS BY CH X3 APP NO. DATE REVISIONS BY CH X3 APP			
PROJECT NO. OF OCCUPANTS			
PREPARED BY Dan Fossey 6-4-85		DESIGNED BY DATE CHECKED BY DATE SUBMITTED BY DATE	
SURVEY DATE DATE		DATE APPROVAL BY DATE	
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION AREA OFFICE, COLORADO		2524 MESA AVENUE GRAND JUNCTION, COLORADO	
LOCATION NO. GJ-00110-RS		DATE AC-B686-2	
ALLIED BROS. Aerospace		DATE 2 OF 2	

U.S. DEPARTMENT OF ENERGY  
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT  
GRAND JUNCTION VICINITY PROPERTIES

Official Survey Report

Property Address 2524 Mesa Avenue

Property Owner Leonard and Connie Heighes

Address of Owner (if different from above) \_\_\_\_\_

Report Prepared By Daniel P. Fossey

I. PRESENCE/ABSENCE OF RESIDUAL RADIOACTIVE MATERIALS

☐ No evidence of residual radioactive material on surveyed property.

☒ Residual radioactive materials found at the following locations:

☒ In open areas.

☒ Under or around exterior improvements.

☐ Under or around a typically nonoccupied structure.

☐ Under or around a typically occupied structure.

II. RESULTS OF RADIOLOGIC ASSESSMENT

☐ Levels of radiation from residual radioactive materials, if any, do not exceed EPA Standards and no action is required under the Uranium Mill Tailings Remedial Action Project.

☒ Levels of radiation from residual radioactive materials exceed EPA Standards such that Remedial Action is recommended and will be accomplished, with your consent, as soon as budget and schedule permit.

cc:

G. A. Franz, III, GJ/CDH

J. Themelis, Mgr. UMTRA Proj. Off.

HIG = N/A uR/h  
HOG = 42 uR/h

ALLIED Bendix  
Aerospace

Bendix Field Engineering Corporation  
Grand Junction Operations  
Grand Junction, Colorado

Date: May 31, 1985  
To: Files  
From: Dan Fossey  
Subject: Team Leader Notes - GJ-00110-RS

Address: 2524 Mesa Avenue  
Owner: Leonard and Connie Heighes  
Telephone: 245-0346

Team Members

D. Fossey (Team Leader)	R. Wilkins
L. Kula	M. Gilfillan
S. Larsen	

Instruments

See Equipment Summary sheet.

Team members arrived on the site at 7:30 AM.

Colorado Department of Health (CDH) data indicates that remedial action was performed on the interior of this residence in August of 1977. In view of this fact, no interior survey was performed by the team members.

Upon arrival, the property owner (Mr. Heighes) had several questions as to why we were not going to conduct an interior survey. These questions were directed to D. Mackler.

Elevated gamma readings were recorded around the primary structure. Further investigation showed the elevated gamma readings were originating from the concrete basement walls. No contamination was discovered in the soil around the basement.

Team Leader Notes

Dan Fossey

GJ-00110-RS

May 31, 1985

Page 2

There appears to be spillover contamination from the property on the east side, adjacent to 2524 Mesa Avenue. Elevated gamma readings were also discovered and recorded along the west boundary. It appears that these elevated gamma readings were originating from the primary structure located at 2514 Mesa Avenue.

The team members and I were unable to contact the property owners on either side of 2524 Mesa Avenue.

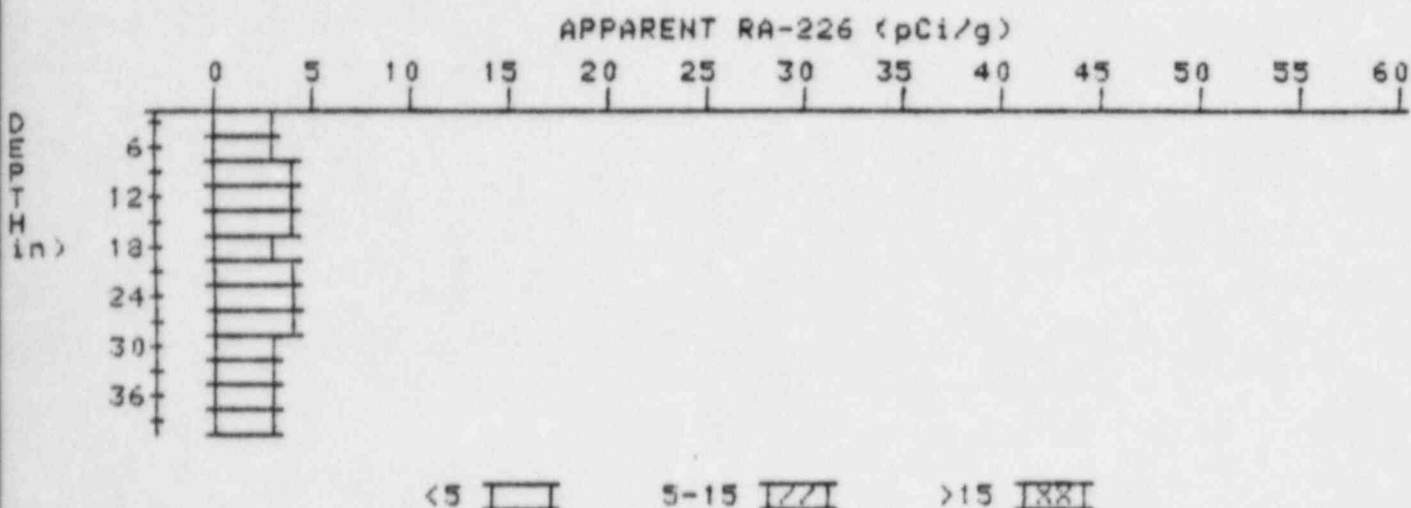
Rain showers were encountered during the survey of this property.

All team members were frisked following the survey and returned to the compound at 12:30 PM.

# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

1

PROPERTY NUMBER: GJ-00110-RS  
HOLE NUMBER: 1  
LOCATION: 160240

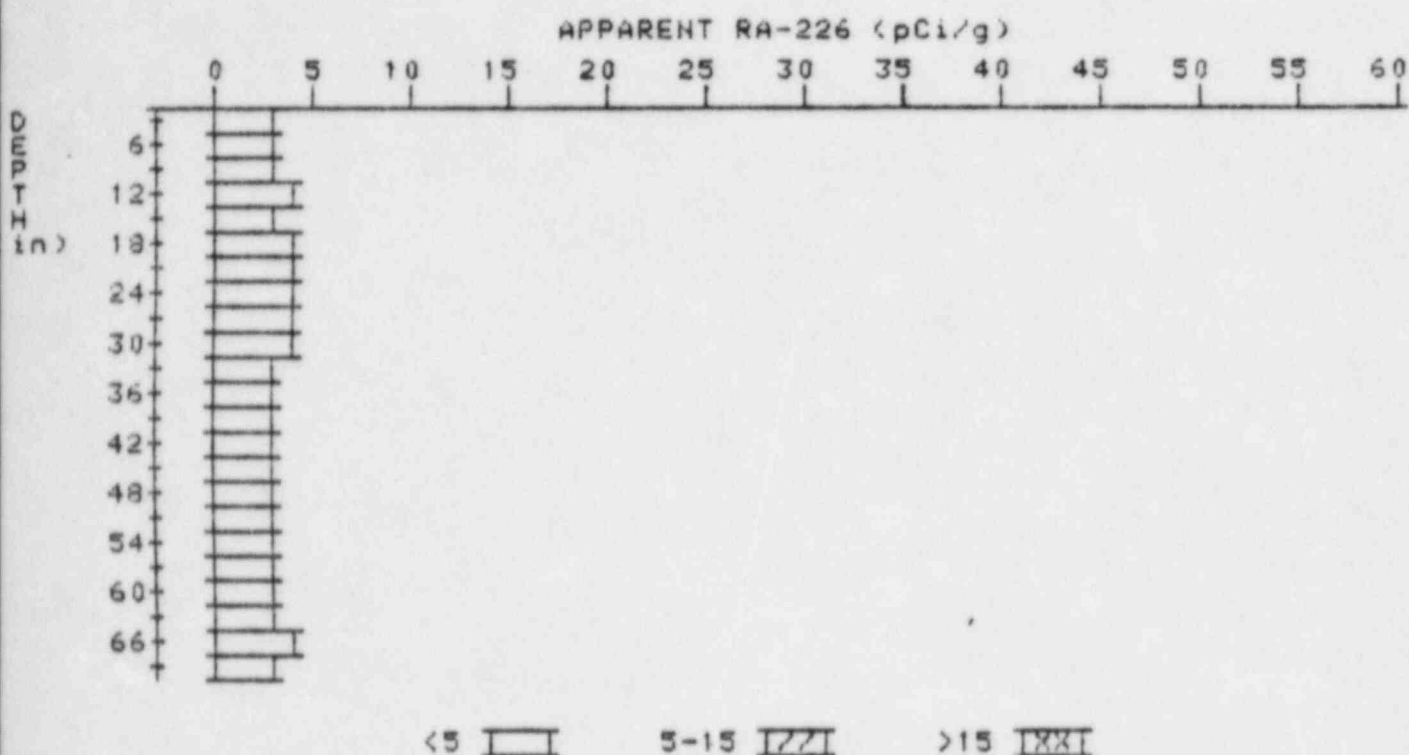


Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.7	2.7
6	3.1	3.3
9	3.4	3.8
12	3.5	3.5
15	3.6	4.0
18	3.5	3.3
21	3.5	3.5
24	3.5	3.7
27	3.4	3.8
30	3.1	2.6
33	3.1	3.1
36	3.1	3.3
39	3.0	3.0

# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

3

PROPERTY NUMBER: GJ-00110-RS  
HOLE NUMBER: 3  
LOCATION: 182240



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.8	2.8
6	3.0	3.0
9	3.2	3.2
12	3.4	3.3
15	3.4	3.2
18	3.5	3.5
21	3.6	3.6
24	3.7	3.7
27	3.8	4.3
30	3.6	3.8
33	3.3	3.1
36	3.1	2.9
39	3.0	2.8
42	3.0	3.0
45	3.0	2.8



48  
51  
54  
57  
60  
63  
66  
69

3.1  
3.1  
3.2  
3.3  
3.3  
3.3  
3.4  
3.2

3.3  
2.9  
3.2  
3.5  
3.3  
3.1  
3.9  
3.2

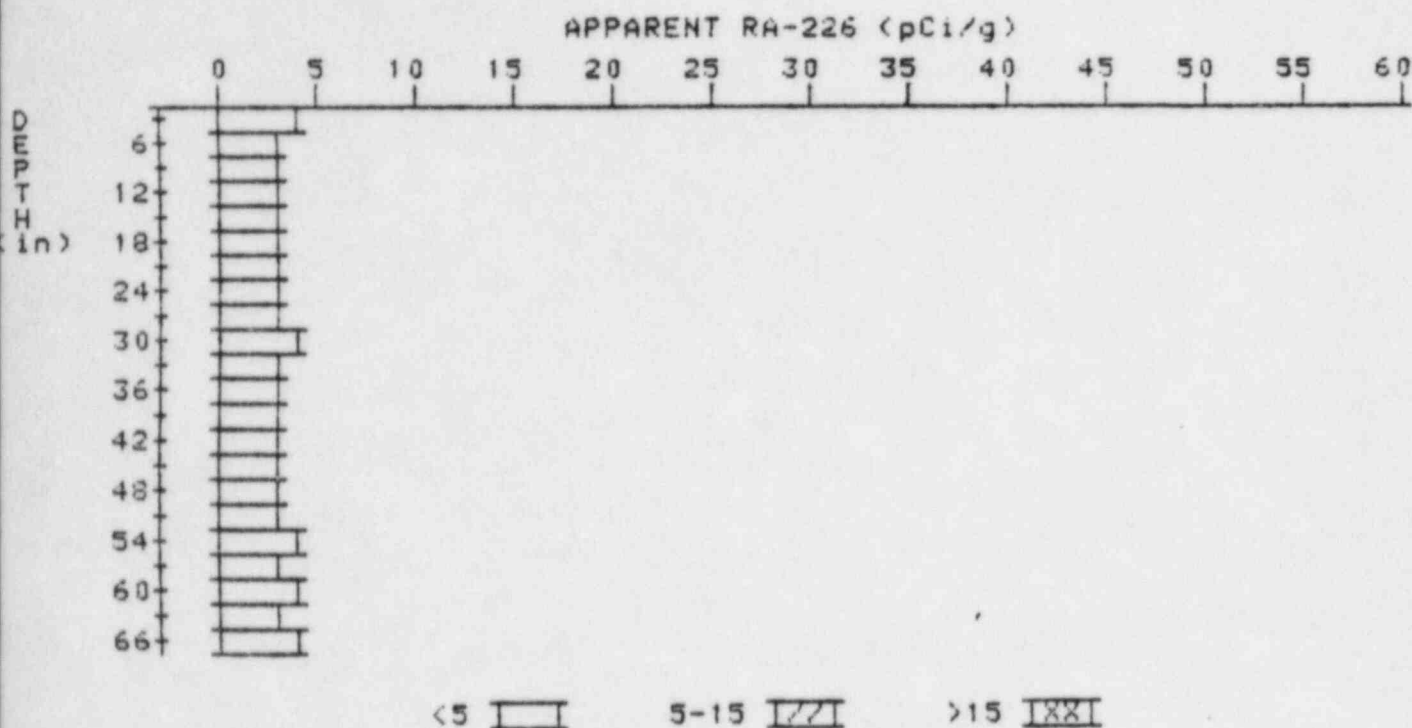
# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

7

PROPERTY NUMBER: GJ-00110-RS

HOLE NUMBER: 7

LOCATION: 200281



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.5	3.5
6	3.4	3.2
9	3.4	3.4
12	3.4	3.4
15	3.4	3.4
18	3.4	3.4
21	3.4	3.4
24	3.4	3.4
27	3.4	3.4
30	3.4	3.6
33	3.3	3.1
36	3.3	3.5
39	3.2	3.0
42	3.2	3.0
45	3.3	3.5
48	3.3	3.3

51  
54  
57  
60  
63  
66

3.3  
3.4  
3.4  
3.5  
3.6  
3.9

3.1  
3.6  
3.2  
3.5  
3.2  
3.9

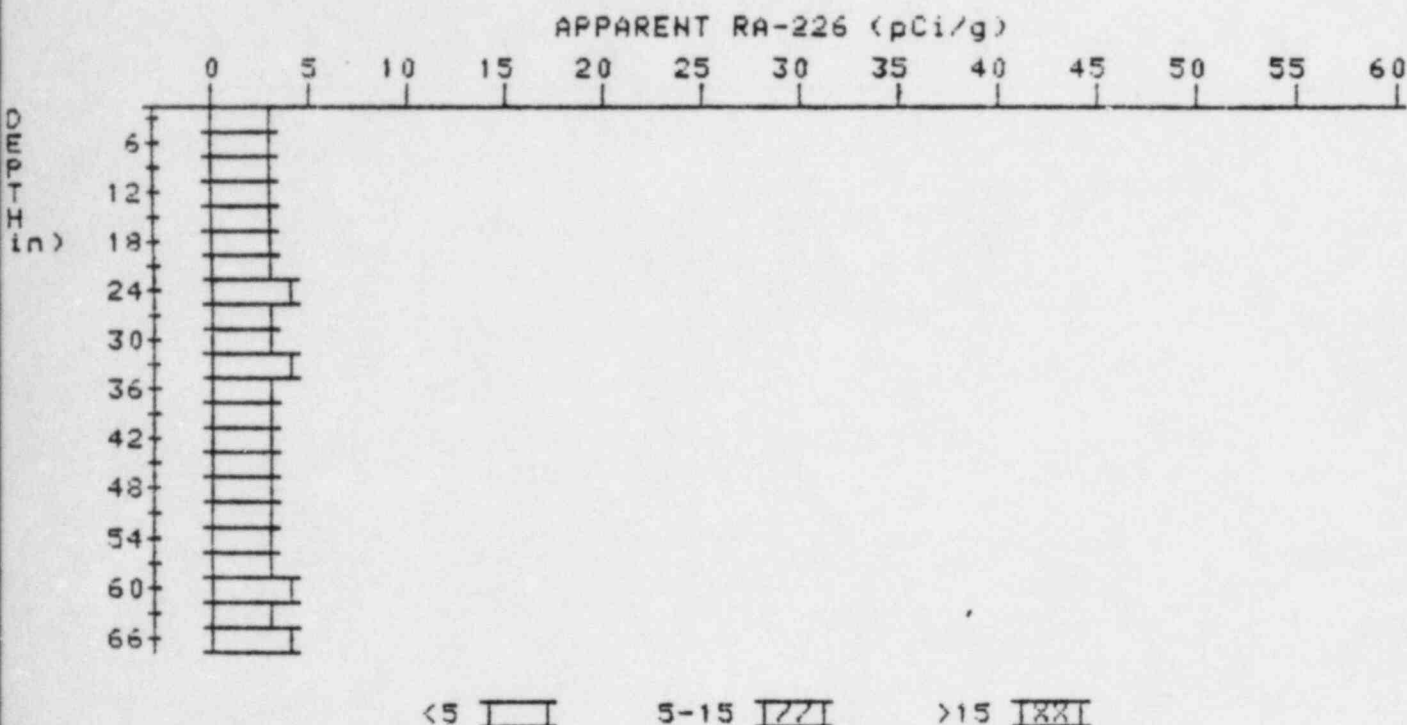
# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

9

PROPERTY NUMBER: GJ-00110-RS

HOLE NUMBER: 9

LOCATION: 220268



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.8	2.8
6	2.9	2.9
9	3.0	3.2
12	3.0	2.8
15	3.1	3.3
18	3.1	2.9
21	3.2	3.2
24	3.3	3.7
27	3.2	3.0
30	3.2	3.0
33	3.3	3.7
36	3.2	3.0
39	3.2	3.2
42	3.2	3.2
45	3.2	3.0
48	3.3	3.5

51	3.3	3.3
54	3.3	3.3
57	3.3	3.1
60	3.4	3.8
63	3.3	2.8
66	3.5	3.5

