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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
450 Hills, Richland, Washington

September 24, 1992

FROM/APPROVAL: Paul M. Pak Date 10/22/92
Paul M. Pak, 200 Aggregate Area Unit Manager, RL (A5-19)

APPROVAL: Pamela A Innis for Date 10/22/92
Douglas R. Sherwood, 200 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: Dib Goswami Date 10/22/92
Dib Goswami, 200 Aggregate Area Unit Manager, WA Dept of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

Attachment #1	-	Meeting Summary
Attachment #2	-	Agenda
Attachment #3	-	Attendance
Attachment #4	-	Action Item Status List
Attachment #5	-	Status of 200 Aggregate Area Management Study Program
Attachment #6	-	200 AAMS Geophysical Logging and Groundwater Sampling Field Activities Update
Attachment #7	-	Spectral Gamma-ray Borehole Surveys for 200 AAMS Status Report

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Prepared by: Kay Kimmel Date: 10/22/92
Suzanne Clarke, Kay Kimmel, GSSC (A4-35)

Concurrence by: M D Gafow Date: 10-22-92
Curt Wittreich, WHC Coordinator (H4-55)

Attachment #1
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
September 24, 1992

Meeting and Summary of Commitments and Agreements

1. SIGNING OF THE AUGUST 200 AREA UNIT MANAGER'S MEETING MINUTES: Meeting minutes were reviewed and approved with no changes.

2. ACTION ITEM UPDATE: See Attachment 4 for status (before September meeting)

   All Action Items are closed.

3. NEW ACTION ITEMS (INITIATED September 24, 1992):

   No new action items were initiated.

4. STATUS 200 AGGREGATE AREA MANAGEMENT STUDIES

   - Michael Galgoul updated the status of the Aggregate Area (see attachment #5).

   - Field Programs Status - Steve Trent presented the geophysical logging and groundwater sampling activities (see attachment #6).

   - Results of the Borehole Logging - Randy Price presented the spectral gamma-ray borehole surveys (see attachment #7).

5. INFORMATION ITEMS/INFORMAL AGREEMENTS:

   - PUREX will be the last revised document in the source AAMSR series to be transmitted as a "Draft B" showing regulator comment dispositions; B Plant, Semiworks and 200 North source AAMSRs will incorporate regulator comments into Draft A and transmit the finalized document as Revision 0. This change does not apply to groundwater AAMSRs. The decision to issue Draft B versions for the Groundwater AAMSRs will be made after receipt of regulator comments due mid-October.

   - The 200 East Groundwater AAMSR has been marked as follows:

     - Text generic to all ten AAMSRs, and which has previously undergone regulatory review has been highlighted by twin vertical bars in the text. Shading in the Table of Contents indicates those sections containing text generic to all ten AAMSRs.

     - Text generic to only the groundwater AAMSRs has been highlighted with a single vertical bar in the text.

   - RL will provide minutes of the meeting between RL and the regulators for the purpose of finalizing the U-Plant and Z-Plant AAMSRs held on September 1, 1992.

- The EPA has completed the review of T plant Draft B and concurred with DOE to issue T Plant Revision 0.

6. AGREEMENT:

- The U Plant Revision 0 will include the following changes based on RL and EPA comments on 200 East GW and Semiworks:

  a) Chapter 6, Page 6-13, Sec. 6.4, Line 14 - Deleted "(when enacted)" after "...Federal Facilities Compliance Act."

  b) Chapter 7, Page 7-3, Sec. 7.1, Deleted paragraph discussing potential land use and the Hanford Site Remedial Action Environmental Impact Statement.

  c) Chapter 8, Page 8-25, Sec. 8.3.2, Line 9 - Changed EII 4.2 "Interim Control of Unknown Suspected Hazardous and Mixed Waste" to EII 4.3, "Control of CERCLA and Other Past-Practice Investigation Derived Waste".

Attachment #2
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
September 24, 1992

Agenda

- Aggregate Area Management Study Program Status - Curt Wittreich
- Field Program Status - Steve Trent
- Results of the Borehole Logging - Steve Trent

Attachment #3
200 Aggregate Area and
200-UP-2 Operable Unit Manager's Meeting
Official Attendance Record
September 24, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
KAY KIMMEL	Kay Kimmel	SWEC	GSSC	509-372-0610
Dib Goswami	[illegible]	Ecology	OUM	509-546-4301
STEVE TRENT	[illegible]	WHC	Geosciences	509-376-7226
RANDALL PRICE	Randall Price	WHC	GEO SCIENCES	509-376-9148
Dave Erb	David B. Erb	WHC	200/300 Env. Engr	509-372-1402
J.W. Fassett	J.W. Fassett	WHC	Geophysics	509-376-4224
Ward Staubitz	[illegible]	USGS	EPA Support	206-593-6570
Rich Carlson	Richard A Carlson	WHC	200/300 Area RI Mgr.	(509) 376-9027
Rhett Trauberger	Rhett Trauberger	WHC	B&T ARMSR PLANT	(509) 372-1258
Diana Sickle	Diana Sickle	WHC	E&R Program	(509) 372-3141
Billie Mauss	Billie Mauss	Ecology	OUM	(509) 546-2993
PAMELA INNIS	Pamela Innis	EPA	UNIT MANAGER	509/376-4919
Dennis Faulk	[illegible]	EPA	Unit Mngr	376-863
Janet Franco	Janet Franco	ODOE Oregon Energy	Observer	(503) 378-3187
Neil Morton	Neil Morton	PRC	EPA Support	206-624-2692
Bill Kane	William F. Kane	Parametrix	Ecology Support	206-822-8880
CHUCK CLINE	Charles L. Cline	Ecology	Hydrogeo.	206 438-7556
Jeff Lerch	[illegible]	WHC	OSM	509-373-3419
Michael Galgoul	[illegible]	WHC	Tech Cor.	509-376-2038

Attachment #4

Action Item Status List
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
September 24, 1992

Item No.	Action/Source of Action	Status

No Action Items.

200 AGGREGATE AREA MANAGEMENT STUDY PROGRAM

Curtis D. Wittreich
Technical Coordinator

Steven J. Trent
Field Activities Coordinator

September 24, 1992

Status
200 Aggregate Area Management Study Program

09/22/92

Area	Aggregate Area	AAMS Type	AAMS Report	Regulator Comments Due	M-27-00 Milestones
200 West	U Plant	Source	Preparing Rev. 0		1/92
	Z Plant	Source	Preparing Rev. 0		2/92
	S Plant	Source	Draft B Under Final Regulator Check		3/92
	T Plant	Source	Preparing Rev. 0		4/92
	200 West	Groundwater	Draft A Under Regulator Review	10/15/92	8/92*
200 East	PUREX	Source	Preparing Draft B		5/92
	B Plant	Source	Preparing Rev. 0		6/92
	Semi-Works	Source	Dispositioning Regulator Comments	9/14/92	7/92
	200 East	Groundwater	Draft A Prepared for Transmittal to Regulators	11/16/92	9/92
200 North	200 North	Source	Draft A Under Regulator Review	10/15/92	8/92

200 AAMS GEOPHYSICAL LOGGING AND GROUNDWATER SAMPLING FIELD ACTIVITIES UPDATE

GEOPHYSICS

●SPECTRAL GAMMA-RAY LOGGING COMPLETED TO DATE:

299-W22-75	216-S-21 CRIB	U PLANT
299-W23-4	216-U-12 CRIB	U PLANT
299-W19-11	216-U-1 CRIB	U PLANT
299-W19-6	216-U-2 CRIB	U PLANT
299-W18-10	216-Z-18 CRIB	Z PLANT
299-W15-63	216-Z-5 CRIB	Z PLANT
299-W15-5	216-Z-9 CRIB	Z PLANT
299-W15-7	216-Z-7 CRIB	Z PLANT
299-W18-5	216-Z-7 CRIB	Z PLANT
299-W22-21	216-S-18 CRIB	S PLANT
299-W22-32	216-S-7 CRIB	S PLANT
299-W22-74	216-S-20 CRIB	S PLANT
299-W26-1	216-S-5 CRIB	S PLANT
299-W26-61	216-S-6 CRIB	S PLANT
299-W11-18	216-T-35 CRIB	T PLANT
299-W11-70	216-T-26 CRIB	T PLANT
299-W14-4	216-T-23 CRIB	T PLANT
299-W11-11	216-T-18 CRIB	T PLANT
299-W15-4	216-T-19 CRIB	T PLANT
299-W15-210	216-T-21:24	T PLANT
299-W11-61	216-T-6 CRIB	T PLANT
299-W11-7	216-T-8 CRIB	T PLANT
299-W11-81	216-T-14:17	T PLANT
299-E24-160	216-A-10 CRIB	PUREX
299-E17-3	216-A-27 CRIB	PUREX
299-E25-191	216-A-30 CRIB	PUREX
299-E26-53	216-A-24 CRIB	PUREX
299-E17-9	216-A-36 CRIB	PUREX
➡ 299-E24-2	216-A-5 CRIB	PUREX
299-E33-24	216-B-57 CRIB	B PLANT
299-E33-14	216-B-56 CRIB	B PLANT
299-E33-290	216-B-14:19	B PLANT
299-E33-21	216-B-14:19	B PLANT
299-E28-18	216-B-62 CRIB	B PLANT
299-E33-36	216-B-61 CRIB	B PLANT
➡ 299-E13-1	BC CRIBS	B PLANT
➡ 299-E13-3	BC CRIBS	B PLANT
➡ 299-E28-61	216-B-9 CRIB	B PLANT
➡ 299-E28-25	216-B-5 CRIB	B PLANT
➡ 299-E13-5	BC CRIBS	B PLANT
➡ 299-E28-16	216-B-12 CRIB	B PLANT
299-E27-1	216-C-9 CRIB	SEMIWKS
299-E27-5	216-C-10 CRIB	SEMIWKS

➡ *WELLS LOGGED SINCE LAST UMM*

GEOPHYSICS (CONTINUED)

- ACCESS TO SURFACE CONTAMINATED ZONES
  - ALL WELLS LOCATED OUTSIDE OF SURFACE CONTAMINATED ZONES WILL HAVE BEEN LOGGED BY EARLY NEXT WEEK
  - EQUIPMENT TO SUPPORT LOGGING OUTSIDE OF SURFACE CONTAMINATED ZONES HAS BEEN ORDERED
- RELEASE OF SPECTRAL GAMMA-RAY LOGGING REPORT REV. 0 DELAYED
  - WORK ON REVISION 1 IS PROGRESSING; TENTATIVE RELEASE DATA IS 10/31/92
- SUMMARY OF SPECTRAL GAMMA-RAY LOGGING RESULTS TO BE PRESENTED

GROUNDWATER SAMPLING

- PHASE II GROUNDWATER SAMPLING COMPLETED
  - 8 WELLS COULD NOT BE SAMPLED DUE TO CONSTRUCTION CONSTRUCTION CHARACTERISTICS OR DECLINING WATER TABLE
  - ANALYTICAL DATA ARE BEING RECEIVED AND EXAMINED

Spectral Gamma-ray Borehole Surveys for 200 AAMS

Status Report

Presented September 24, 1992
by R. K. Price

I. Objective of Spectral Gamma Survey

A. Acquire Continuous Survey thru depth range Containing manmade radionuclides.

B. Screening, count time appx 30s ea 0.5 ft

C. Select one borehole per disposal site

II. Spectral Gamma Survey Data Reduction

A. Identify radionuclies

B. Compute apparent decay activity

Apply casing correction (max 0.40")

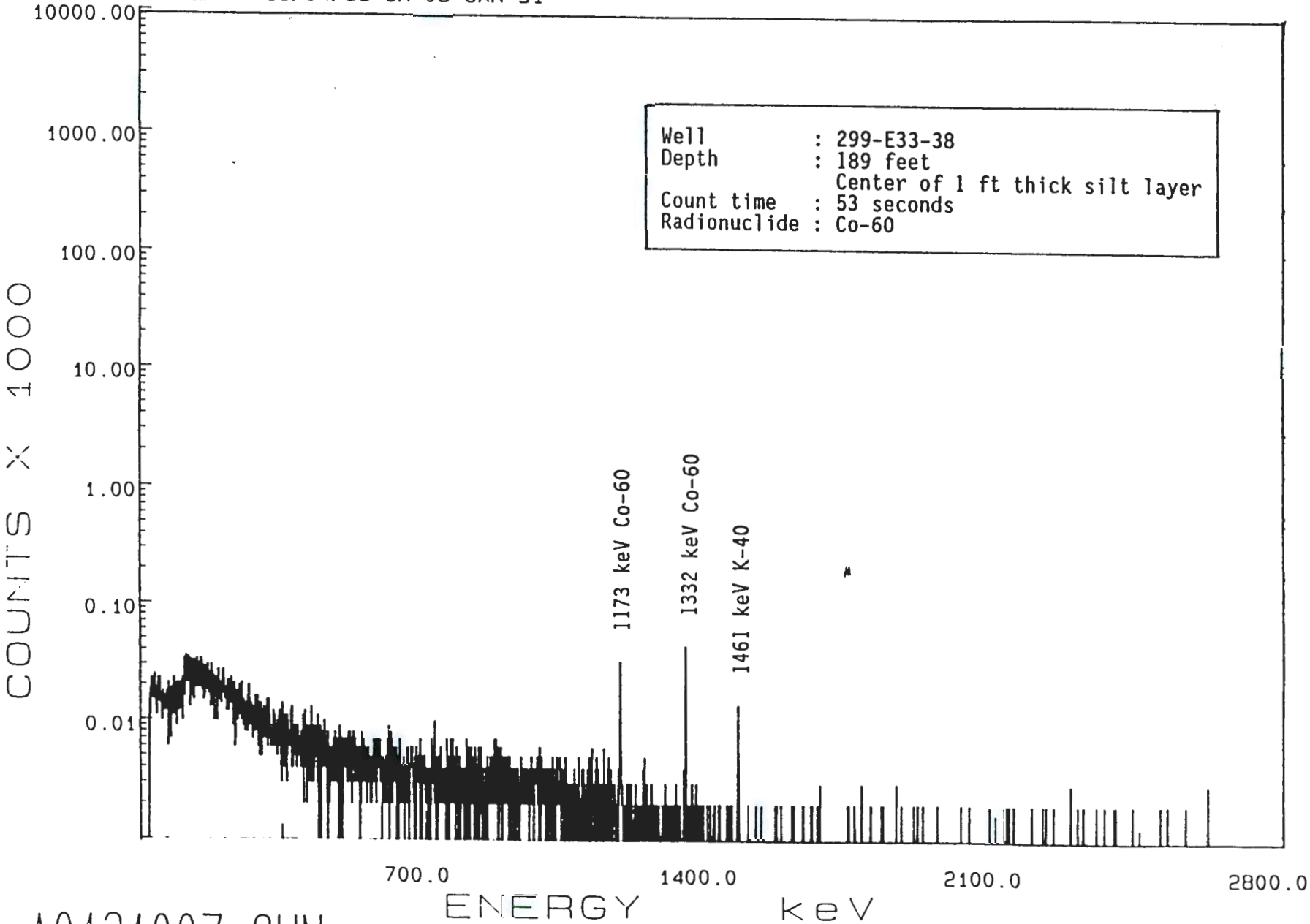
No Water correction for 200W AAMS

C. Plotted data includes

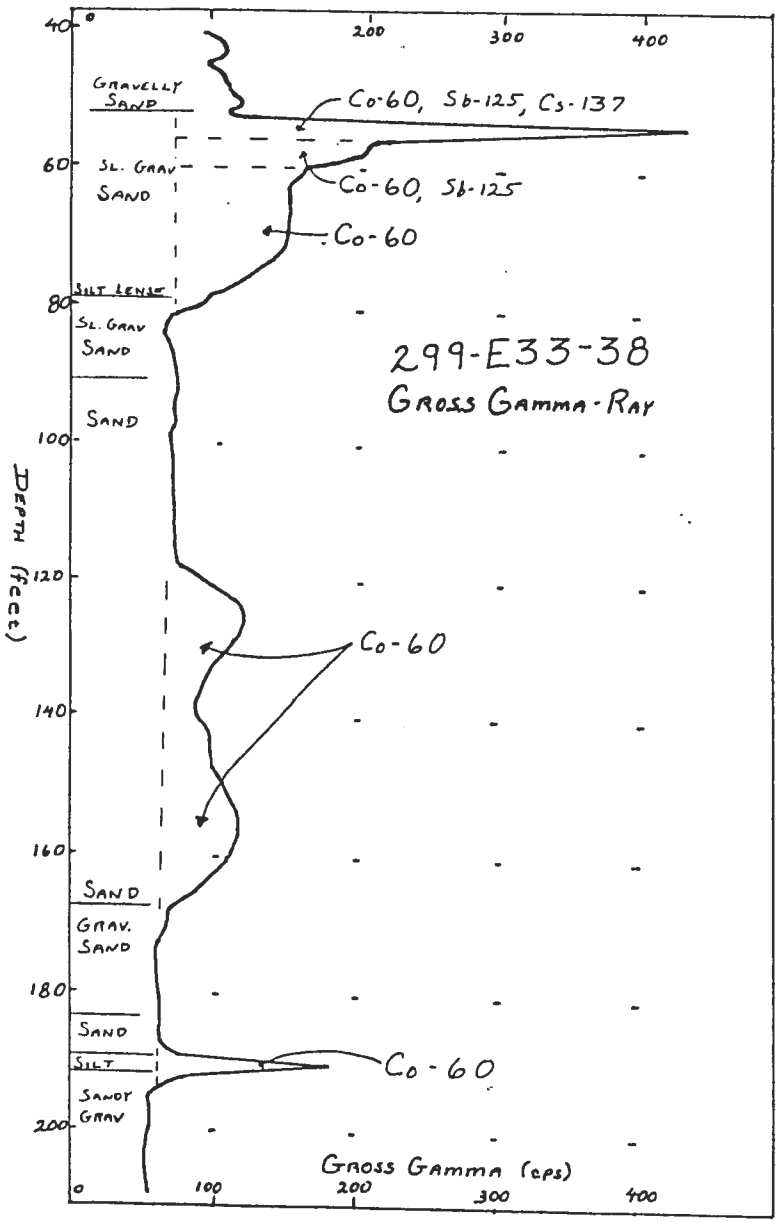
Well construction & Lithology

9 2 1 2 7 1 7 1 3 1 3

TYPE = -1 MCA # 01 SEGMENT # 01 SEQUENCE # 0
REALTIME = 54.16 SECONDS, LIVETIME = 53.80 SECONDS
DATA COLLECTED AT 11:04:38 ON 09-JAN-91



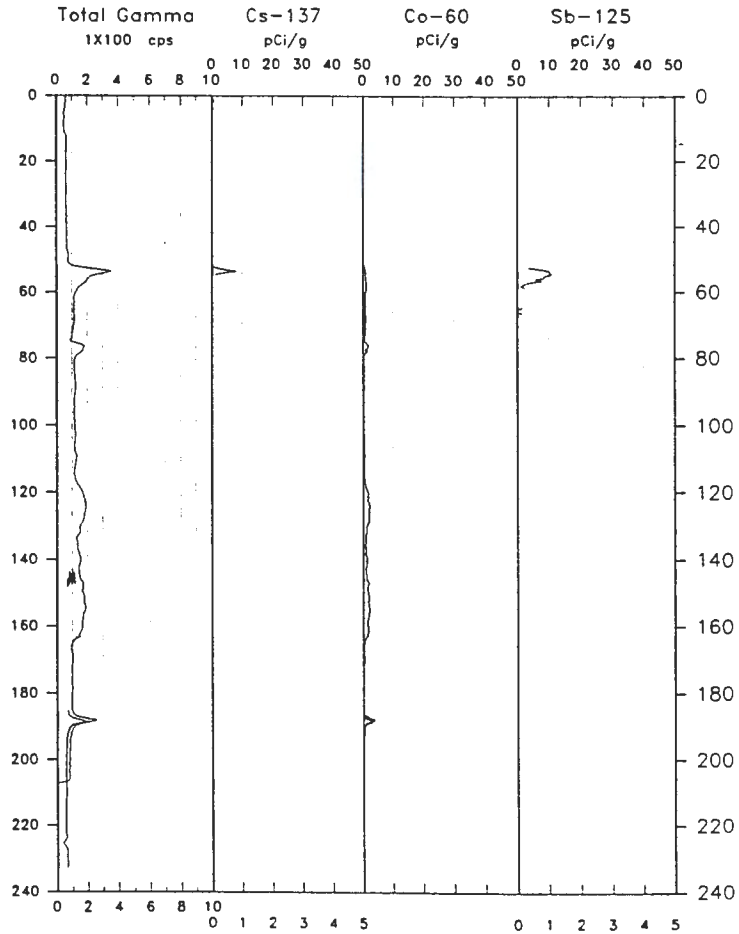
A0131007.CHN SAMPLE: Well 299-E33-38 Depth 189 ft



RLS Spectral Gamma–Ray Borehole Survey

Project: 200–BP–1 Log Date: Dec 31, 90

Borehole: 299–E33–38 Anal. Date: Aug 27, 92



TYPE = -1 MCA # 01 SEGMENT # 01 SEQUENCE # 0
REALTIME = 83.06 SECONDS, LIVETIME = 82.28 SECONDS
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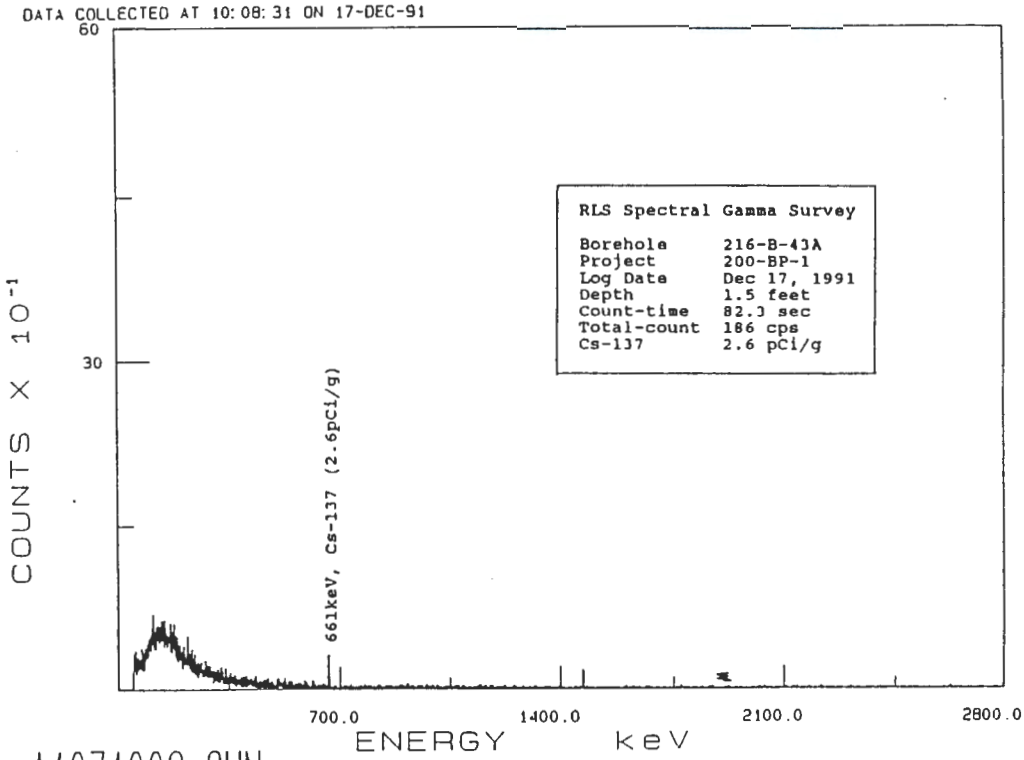

A1071002.CHN SAMPLE: Cs-137= 2.6pCi/g Tot-Gamma= 186cps Depth=1.5'
RLS HPGe-18% Borehole 216-B-43A

TYPE = -1 MCA # 01 SEGMENT # 01 SEQUENCE # 0
REALTIME = 54.02 SECONDS, LIVETIME = 49.68 SECONDS
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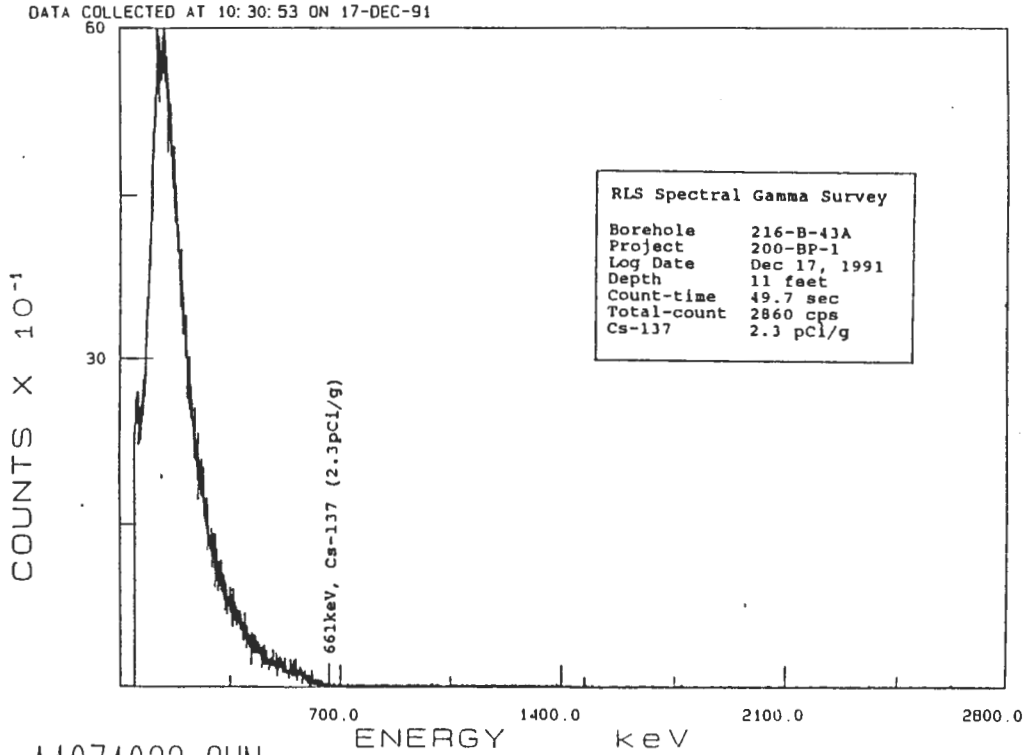
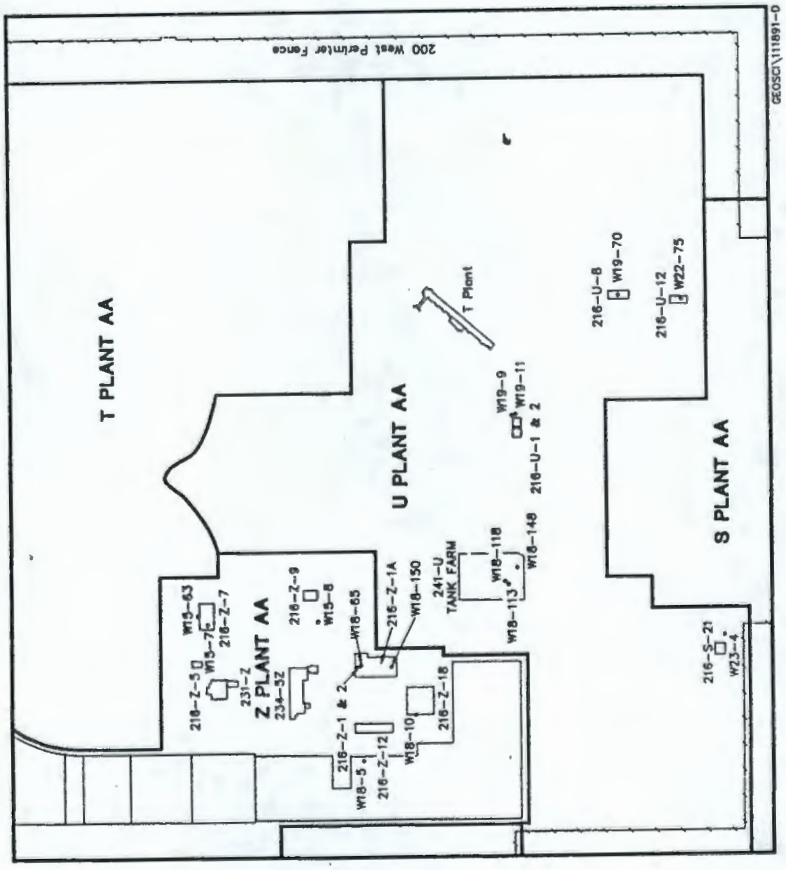


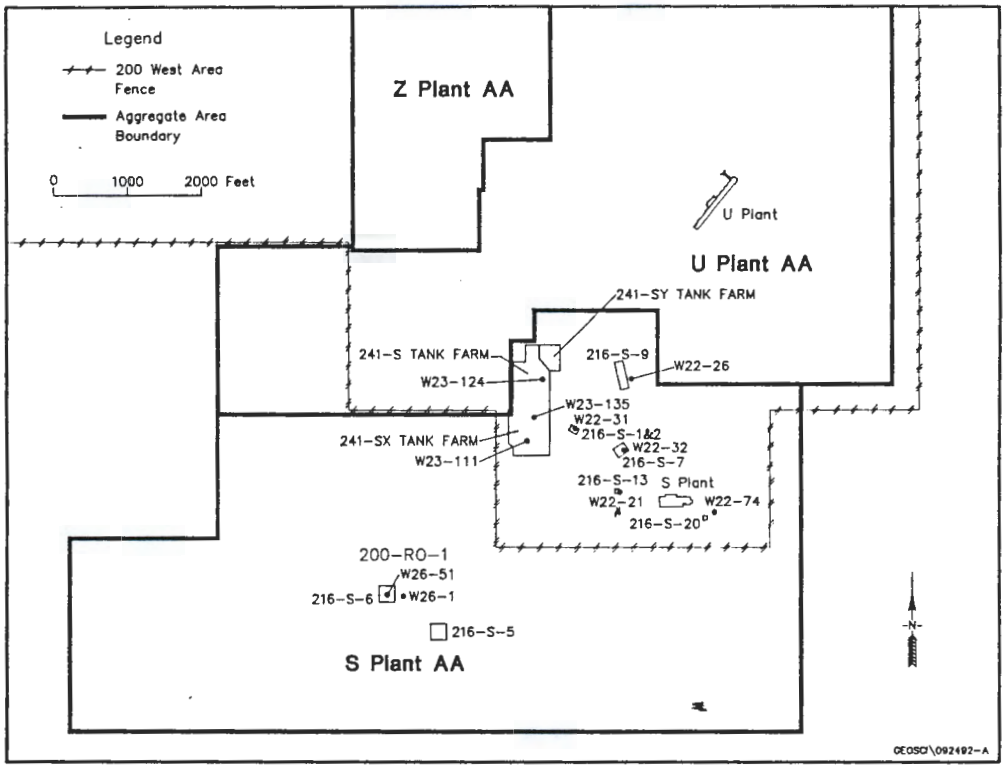
A1071022.CHN SAMPLE: Cs-137= 2.3pCi/g Tot-Gamma=2860cps Depth=11'
RLS HPGe-18% Borehole 216-B-43A

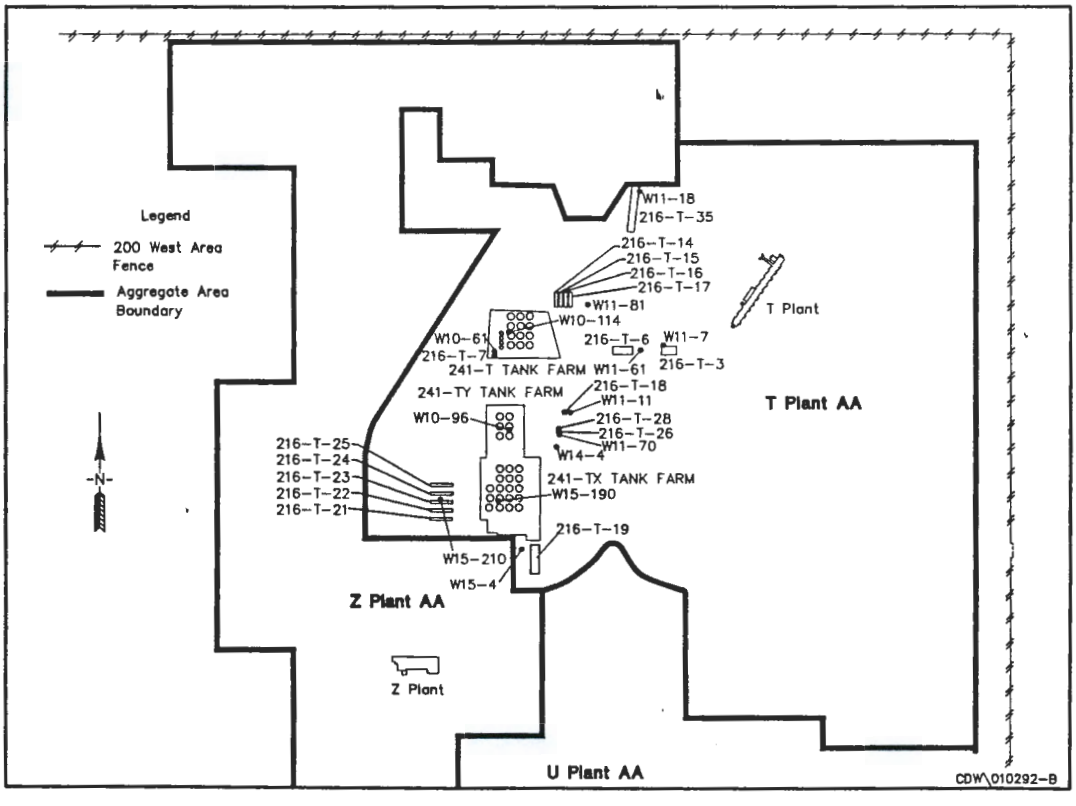
Borehole ID	Disposal Site	Cesium-137 Depth[1]	Cesium-137 pCi/g[2]	Cobalt-60 Depth[1]	Cobalt-60 pCi/g[2]	Other[3] Depth[1]	Other[3] pCi/g[2]	Other[3] Depth[1]	Other[3] pCi/g[2]
299-W11-11	216-T-18 Crib	59'	10,000	95'	5	-		-	
299-W11-18	216-T-35 Crib	53'	2,100	100'	26	-		Eu-154 59'	20
299-W11-61	216-T-6 Crib	55'	2,800	-		-		-	
299-W11-70	216-T-26 Crib	123'	33,000	144'[4]	2	Eu-152 87'	8	Eu-154 92'	400
299-W11-81	T-14:T-17 Cribs[5]	48'[4]	19,000	48'[4]	2	-		-	
299-W14-4	216-T-28 Crib	140'[4]	1,450	140'[4]	6	Eu-152 94'	4	Eu-154 140'[4]	130
299-W15-4	216-T-19 Crib	162'	33,000	-		-		-	
299-W15-7	216-Z-7 Crib	13'	1	308'[4]	60	-		Eu-154 308'[4]	30
299-W15-8	216-Z-9 Crib	195'	1	-		Pu-239 106'	300K[6]	Pa-233 121'	20
299-W15-63	216-Z-5 Crib	1'	1	146'[4]	30	-		Eu-154 146'[4]	13
299-W15-210	T-21:T-24 Cribs[5]	94'	32,000	-		-		-	
299-W18-5	216-Z-12 Crib	-		-		-		Pa-233 258'	60
299-W18-10	216-Z-18 Crib	48'	10	-		Am-241 48'	320K[6]	Pa-233 54'	10
299-W19-9	216-U-2 Crib	14'	55	-		U-238 94'	60	U-235 90'	2
299-W19-11	216-U-1 Crib	82'	4,300	54'	1	U-238 55'	900	U-235[7]	
299-W22-21	216-S-13 Crib	214'	1	-		U-238 213'	300	U-235 214'	25
299-W22-32	216-S-7 Crib	204'	10,000	226'[4]	1	-		-	
299-W22-74	216-S-20 Crib	-		40'	2	-		-	
299-W22-75	216-U-12 Crib	59'	16,000	-		U-238 80'	500	U-235 80'	20
299-W23-4	216-S-21 Crib	-		60'	11	-		-	
299-W26-1	216-S-5 Crib	51'	33,000	-		-		-	
299-W26-51	216-S-6 Crib	92'	10,000	-		-		-	

[1]Maximum depth where radionuclide was identified; Not necessarily depth of maximum decay activity
[2]Maximum decay activity observed for radionuclide; Not necessarily at maximum depth of borehole
[3]Name of Man-made radionuclide is entered in table
[4]Maximum depth of borehole survey
[5]Borehole is associated with multiple cribs constructed in close proximity
[6]Decay activity in thousands of pCi/g or units of nCi/g; 1000 pCi/g = 1 nCi/g
[7]High decay activity of Cesium-137 at 662keV is probably masking U-235 Gamma-ray at 186keV



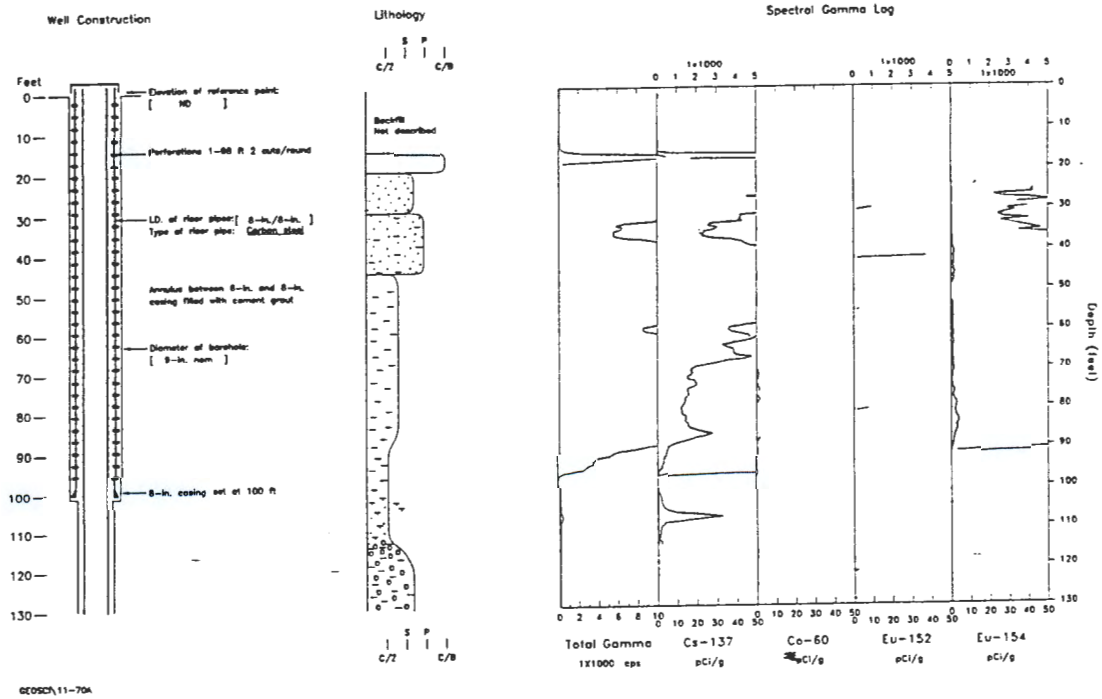
9 2 1 2 7 5 7 0 8 5 6


Legend
200 West Area Fence
Aggregate Area Boundary
0 1000 2000 Feet
Z Plant AA
U Plant
U Plant AA
241-SY TANK FARM
241-S TANK FARM
W23-124
216-S-9
W22-26
W23-135
W22-31
216-S-1&2
W22-32
216-S-7
241-SX TANK FARM
W23-111
216-S-13
S Plant
W22-21
W22-74
216-S-20
200-RO-1
W26-51
216-S-6
W26-1
216-S-5
S Plant AA
N
GEOSCI\092492-A


Legend
200 West Area Fence
Aggregate Area Boundary
W11-18
216-T-35
216-T-14
216-T-15
216-T-16
216-T-17
W11-81
T Plant
W10-114
W10-61
216-T-7
241-T TANK FARM
W11-61
216-T-6
W11-7
216-T-3
241-TY TANK FARM
216-T-18
W11-11
T Plant AA
W10-96
216-T-28
216-T-26
W11-70
W14-4
216-T-25
216-T-24
216-T-23
216-T-22
216-T-21
241-TX TANK FARM
W15-190
216-T-19
W15-210
W15-4
Z Plant AA
Z Plant
U Plant AA
N
CDW\010292-B

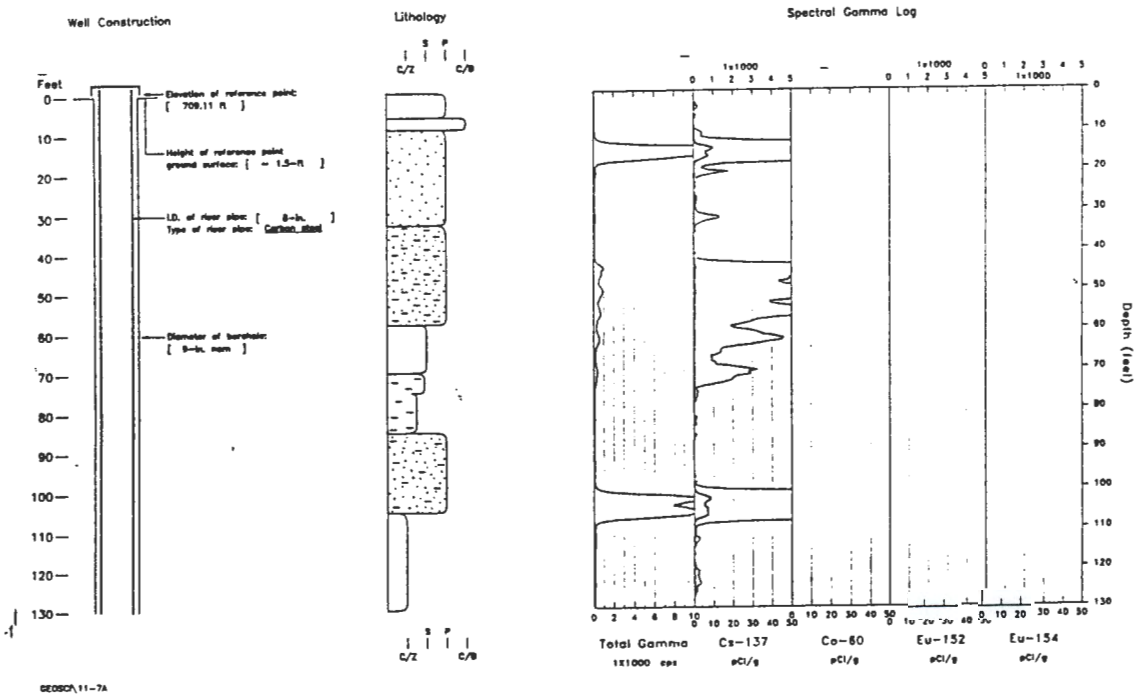
RLS Spectral Gamma Ray Borehole Survey

Well 299-W11-70 | Crib 216-T-26 | Log Date 2/27/92



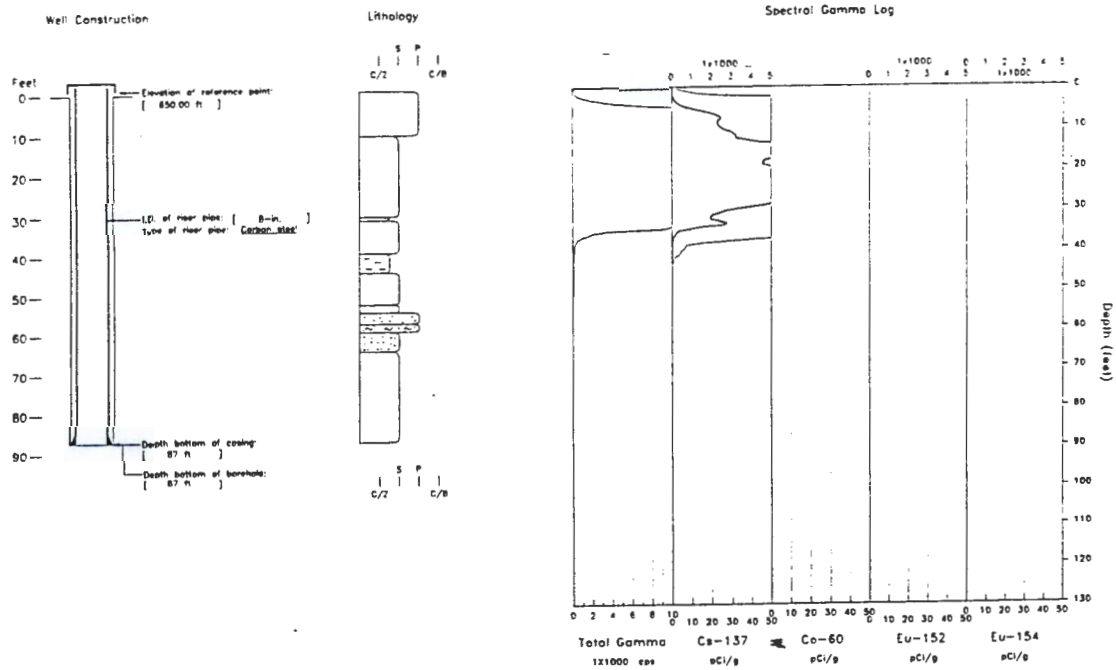
RLS Spectral Gamma Ray Borehole Survey

Well 299-W11-7 | Crib 216-T-3 | Log Date 5/11,14,15/92



RLS Spectral Gamma Ray Borehole Survey

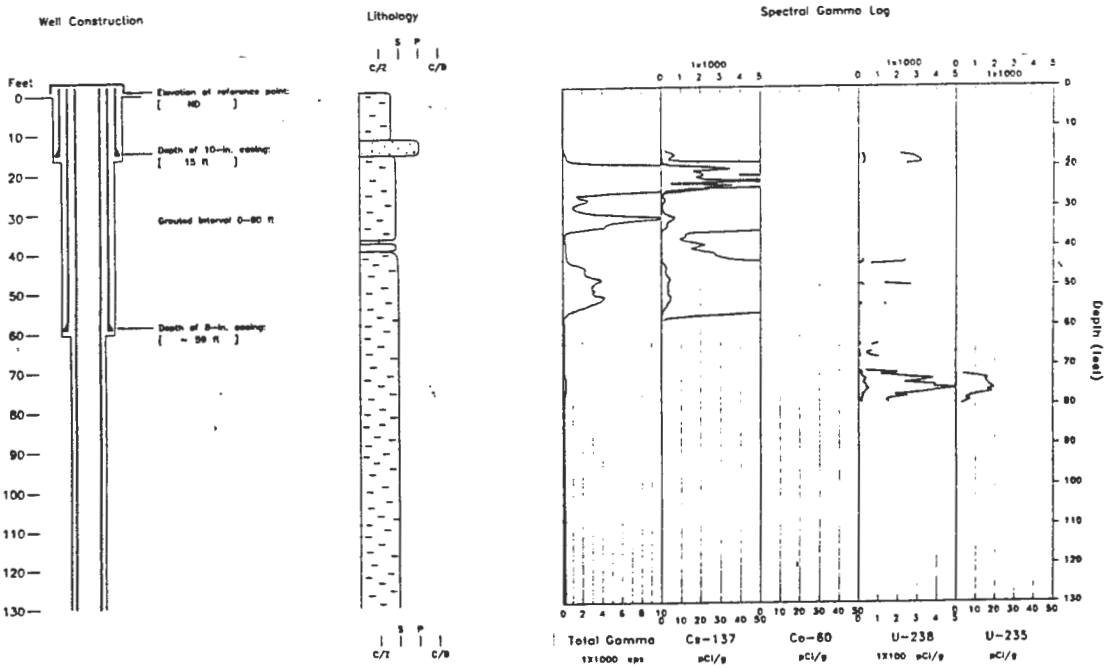
Well 299-W26-1 | Crib 216-S-5 | Log Date 12/13/91



GEOSCI\26-1A

RLS Spectral Gamma Ray Borehole Survey

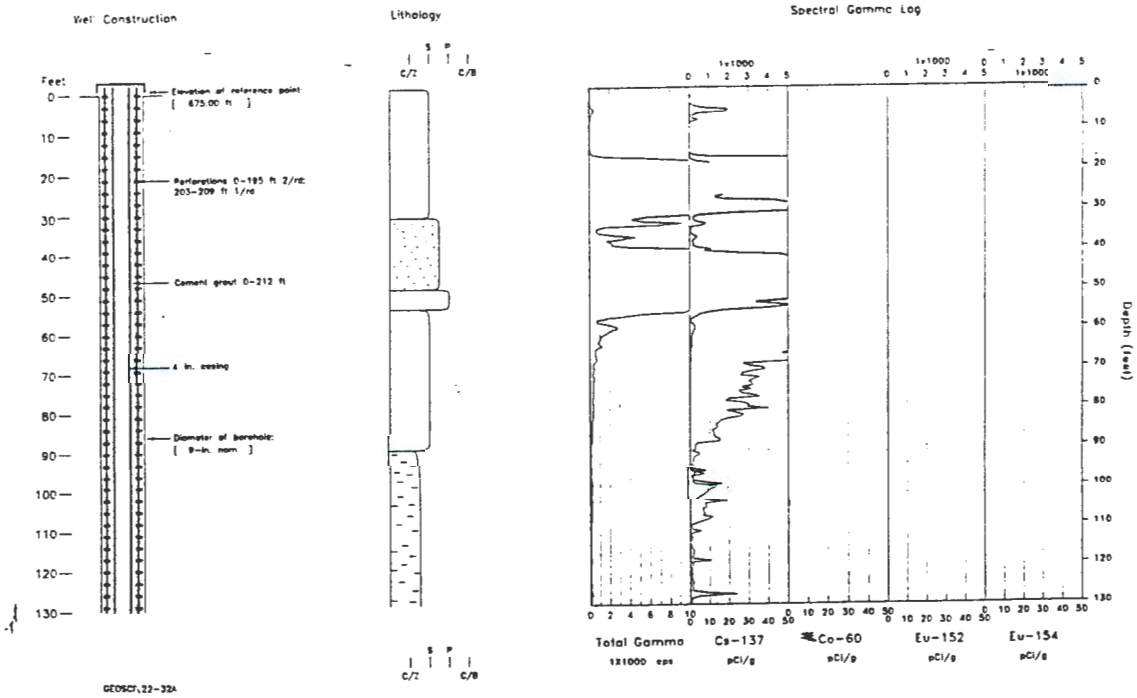
Well 299-W22-75 | Crib U-12 | Log Date 12/05/91



GEOSCI\22-75A

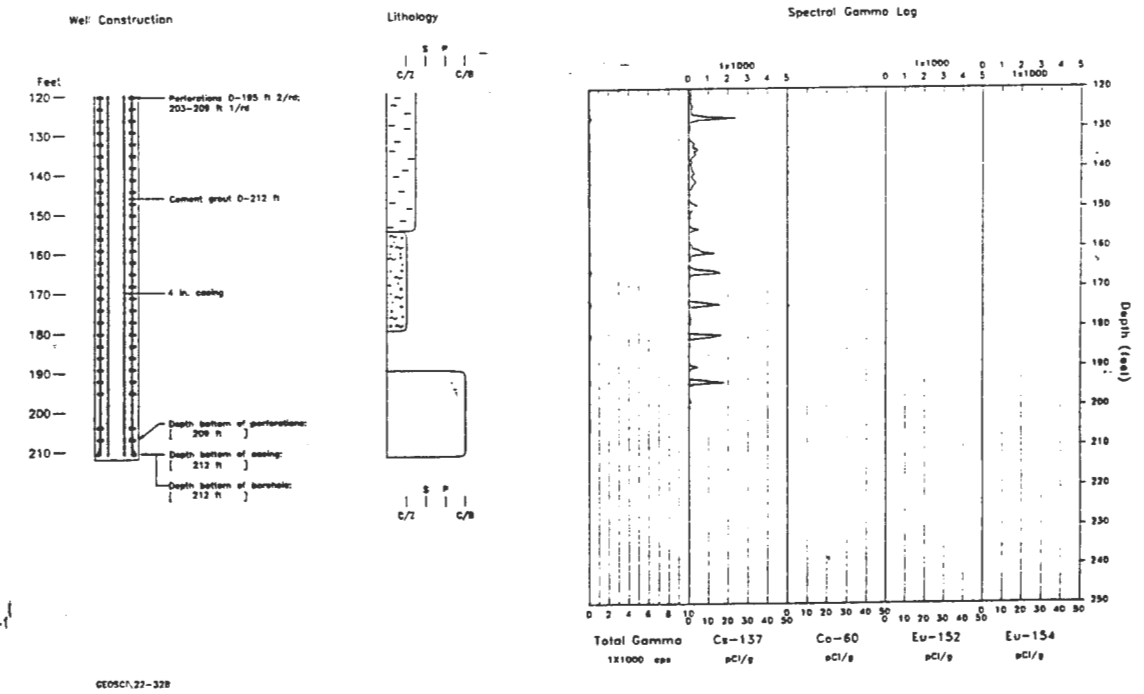
RLS Spectral Gamma Ray Borehole Survey

Well 299-W22-32 | Crib 216-S-7 | Log Date 2/18/91



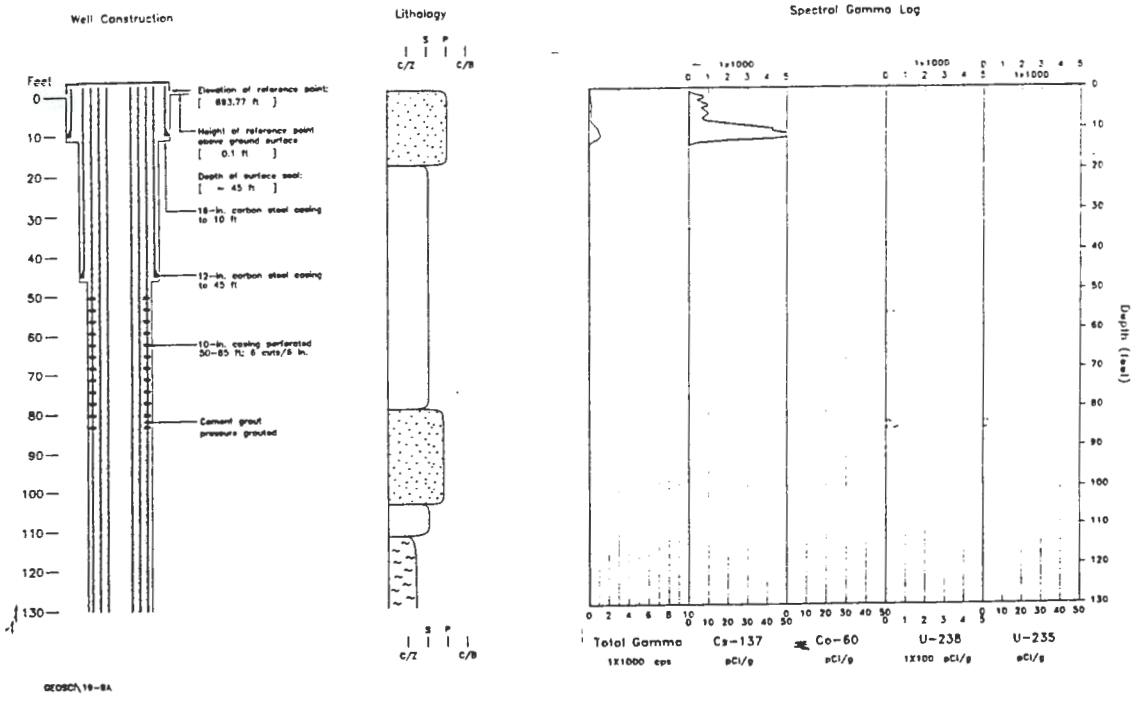
RLS Spectral Gamma Ray Borehole Survey (Page 2)

Well 299-W22-32 | Crib 216-S-7 | Log Date 2/18/91



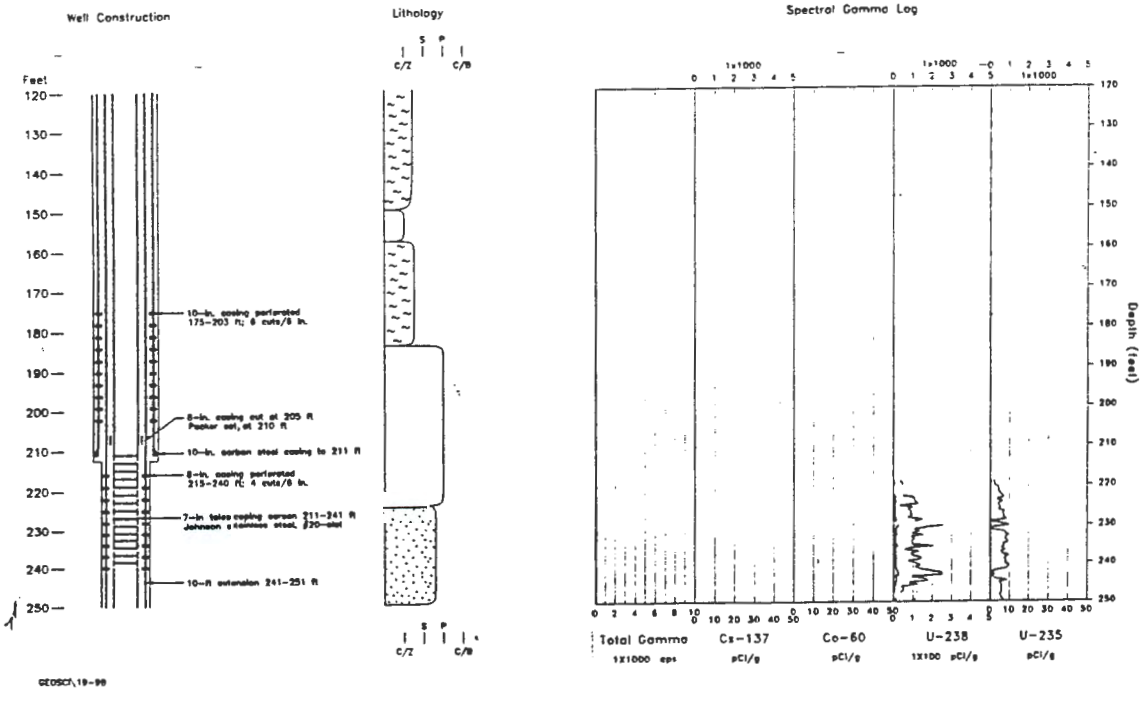
RLS Spectral Gamma Ray Borehole Survey

Well 299-W19-9 | Crib 216-U-2 | Log Date 4/27/92



RLS Spectral Gamma Ray Borehole Survey (Page 2)

Well 299-W19-9 | Crib 216-U-2 | Log Date 4/27/92



Summary of RLS Borehole Surveys for 200 East AAMS

Borehole ID	Disposal Site	Log Date
299-E13-1	B-C Cribs	8/31/92
299-E13-3	B-C Cribs	9/03/92
299-E13-5	B-C Cribs	9/22/92
299-E17-3	216-A-27	9/01/92
299-E17-9	216-A-36	8/26/92
299-E24-2	216-A-10	9/18/92
299-E24-160	216-A-10	7/23/92
299-E25-191	216-A-30	7/31/92
299-E26-53	216-A-24	8/14/92
299-E27-1	216-C-9	8/13/92
299-E27-5	216-C-10	8/24/92
299-E28-18	216-B-62	8/06/92
299-E28-25	216-B-5	9/12/92
299-E28-61	216-B-9	9/09/92
299-E33-14	216-B-56	7/30/92
299-E33-21	B35 - B41 Cribs	8/04/92
299-E33-24	216-B-57	7/14/92
299-E33-26	216-B-61	8/11/92
299-E33-290	218-E-18 Burial	8/01/92
299-E28-16	216-B-8	9/24/92
299-E33-20	216-B-11	
299-E33-58	216-B-7	

Future Plans

I. Resolve Data Reduction Back-log

II. Data Analysis / Interpretation

Geology, stratigraphy, minerology

Hydrology, soil retention

Disposal history, well construction records

III. OTD project: Spectral gamma spatial resolution

FY94 Phase: EPA Approval of RLS type data

Distribution

Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
September 24, 1992

Julie K. Erickson . . . . . Chief, DOE-RL, ERD/ERB (A5-19)
Roger D. Freeberg . . . . . Chief, Rstr. Br., DOE-RL, ERD/EPB (A5-19)
Mike Thompson . . . . . DOE-RL, EAP/RPB (A5-15)
Diane Clark . . . . . DOE-RL, TSD/SSB (A5-55)
Mary Harmon . . . . . DOE-HQ (EM-442)
Suzanne Clarke . . . . . SWEC, GSSC to DOE-RL (A4-35)
Kirth Erickson . . . . . SWEC, GSSC to DOE-RL (A4-35)

Doug Sherwood . . . . . 200 Aggregate Area Manager, EPA (B5-01)
Ward Staubitz . . . . . USGS, Support to EPA
Audree DeAngeles . . . . . PRC, Support to EPA

Dib Goswami . . . . . WDOE (Kennewick)
Darci Teel . . . . . WDOE (Kennewick)
Larry Goldstein . . . . . WDOE (Lacey)

Lynn Albin . . . . . Washington Dept. of Health

Richard D. Wojtasek . . . . . WHC, Program. Manager (L4-92)
Curt Wittreich . . . . . WHC, (H4-55)
Tom Wintczak . . . . . WHC, (L4-92)
Mel Adams . . . . . WHC, (H4-55)
L.D. Arnold . . . . . WHC, (B2-35)
Rich Carlson . . . . . WHC, (H4-55)
M.J. Galgoul . . . . . WHC, (H4-55)

Chris Abraham . . . . . GAO (A1-80)

ADMINISTRATIVE RECORD: 200 AAMS; Care of EDMC, WHC (H4-22)

This list has been updated. Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.