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March 11, 1992

Meeting Minutes Transmittal/Approval
Status of 200 AAMS Activities
450 Hills Street, Rm 47
February 26, 1992

From/ Appvl.: Allan C. Harris Date: 3/25/92
 Allan Harris, 200 Aggregate Area Unit Manager, RL (A5-19)

Appvl.: Doug Sherwood Date: 3/25/92
 Doug Sherwood, 200 Aggregate Area Unit Manager, EPA (B5-01)

Appvl.: Larry Goldstein for LG Date: 3/25/92
 Larry Goldstein, 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 - 200 Aggregate Area Management Study Program status report
- Attachment #6 - Status of field programs report
- Attachment #7 - 200-UP-2 Work Plan status report
- Attachment #8 - Presentation on borehole logging report

Prepared by: William J. Tuzer Date: 3/25/92
GSSC

Concurrence by: [Signature] Date: 3/25/92
WHC RI Coordinator



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Attachment #1

Meeting Summary

Status of 200 AAMS Activities
February 26, 1992

- 9 2 1 2 5 4 8 0 4 1 4
1. C. D. Wittreich (WHC) reported on the status of the 200 Area AAMSs, see attachment 5 for copies of the viewgraphs. Regulator comments on the U Plant AAMS, submitted at the end of January 1992, are due by March 16. A tentative date of March 23rd was proposed for a meeting to go over the regulator's major comments on the U Plant AAMS. C. Cline (Ecology) indicated that a letter from L. Goldstein was forthcoming concerning issues on what facilities will be included in the CERCLA program for the U Plant aggregate area, and that these issues will involve regulatory representatives in addition to those involved in the review of the AAMS report. It was suggested that parallel efforts to resolve technical and programmatic issues will be required.

Action Item: WHC will arrange a U Plant AAMS comment disposition meeting with the regulators for the week after the comments due date, March 16th. Action to C. D. Wittreich (2/26/92).

The draft Z Plant AAMS report will be released to the regulators by the end of February. It was verified that U Plant is an Ecology-lead aggregate area and Z Plant is EPA lead. D. ~~Sherwood~~ ^{SEWARD} is the EPA lead on the U Plant AAMS and D. ~~Falk~~ ^{FOLK} is the EPA lead on the Z Plant AAMS.

C. Wittreich discussed revisions to the flowchart for the data evaluation process; the flowchart in Attachment 5 is the revised version, which will be used in the Z Plant AAMS. An initial box was added directly tying decisions for ERAs to the HPPIS, and secondary decisions not affecting the final recommendations were removed. The flowchart in the U Plant AAMS will be revised in the final document.

2. S. J. Trent provided status for the field activities, see Attachment 6. He first reported on progress in geophysical borehole logging. Nine wells have been logged to date, three more than the six that were scheduled by this point in time. There had been a site shut-down due to potential venting from single-shell tanks, which kept the logging crew from access to the majority of the additional wells to be logged. It is hoped to make up logging of those wells scheduled for February in March.

In regard to groundwater sampling, Phase 1 sample data is coming in. The phase 2 sampling start date, scheduled for February 24, has been delayed as a result of audit findings regarding the 200-BP-1 RI. This situation affects all sampling other than RCRA sampling done through PNL. Sampling is delayed while deficiencies in the sampling procedures are rectified, which is expected to be completed in two weeks. The audit identified the need for additional proceduralization and management control of the process. EIIs will be modified to be more clear and specific.

Attachment #1
Page 2 of 2

Fitness-for-use evaluations for the 200 West wells has been completed, and for the 200 East wells should be completed by the end of the week of February 23rd.

3. M. J. Galgoul reported progress on the 200-UP-2 Work Plan, see Attachment 7. Work has begun toward the milestone date of June 1992. The work plan will not duplicate the detailed information presentation in the U Plant AAMS; an overhead showing the correspondence between the AAMS outline and the work plan outline is included. Recommendations in the U Plant AAMS for reassignment of groundwater and several facilities from UP-2 to other OUs were discussed.

Action Item: DOE will initiate the paperwork for changing the content and/or boundaries of the 200-UP-2 OU. Action to Allan Harris (2/26/92).

4. R. K. Price made a presentation on the use of gross gamma logging to assist spectral gamma logging in locating probable zones of man-made radionuclides, see Attachment 8. The presentation and discussions concerned analysis of the relative sensitivities of the available tools operating in Hanford borehole/well conditions and dealing with the multiple radionuclides that may be encountered.

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Attachment #3

Attendance
200 AAMS Operable Unit Managers Meeting
February 1992

Name	Org.	O.U. Role	Phone
<u>BILL FRYER</u>	<u>SWEC</u>	<u>GSSC</u>	<u>(509) 376-9830</u>
<u>Joe King</u>	<u>SWEC</u>	<u>GSSC</u>	<u>(509) 376-4726</u>
<u>Frank [unclear]</u>	<u>[unclear]</u>	<u>[unclear]</u>	<u>() [unclear]</u>
<u>Hal Downey</u>	<u>WHC</u>	<u>ER-Program off</u>	<u>(509) 376-8589</u>
<u>Allen C. Harris</u>	<u>DOE</u>	<u>O.U. Manager</u>	<u>(509) 376-4939</u>
<u>Bob Byrd</u>	<u>PNL</u>	<u>-</u>	<u>(509) 376 9345</u>
<u>Word Stambatz</u>	<u>USGS</u>	<u>EPA Support</u>	<u>(206) 593-6570</u>
<u>RA CARLSON</u>	<u>WHC</u>	<u>WHC</u>	<u>(509) 376-9027</u>
<u>MIKE BAENRE</u>	<u>USCE</u>	<u>-</u>	<u>(509) 376 1275</u>
<u>Brian Drost</u>	<u>USGS</u>	<u>EPA Support</u>	<u>(206) 593-6570</u>
<u>Jon Sprecher</u>	<u>Btc</u>	<u>Ecology Support</u>	<u>(206) 244-7005</u>
<u>Rich Hibbard</u>	<u>Ecology</u>	<u>-</u>	<u>(206) 493-9367</u>
<u>Dora Teel</u>	<u>Ecology</u>	<u>CEPLIA</u>	<u>(509) 545-2312</u>
<u>Clara Cline</u>	<u>"</u>	<u>"</u>	<u>(206) 438-7556</u>
<u>PAMELA INNIS</u>	<u>EPA</u>	<u>O.U. Mgr</u>	<u>(509) 376-4919</u>
<u>Donna [unclear]</u>	<u>PRC</u>	<u>EPA Contractor</u>	<u>(206) 621-2002</u>
<u>Dennis Faulk</u>	<u>EPA</u>	<u>O.U. manager</u>	<u>(509) 376-8631</u>
<u>RANDALL PRICE</u>	<u>WHC</u>	<u>GEOPHYSICS</u>	<u>(509) 376-9148</u>
<u>STEVE TRENT</u>	<u>WHC</u>	<u>GEOLOGY</u>	<u>(509) 376-7226</u>
<u>JULIE ERICKSON</u>	<u>DOE</u>	<u>Br. Chief/ERB</u>	<u>(509) 376-3603</u>
<u>MICHAEL GALGOUL</u>	<u>WHC</u>	<u>ENV ENG</u>	<u>(509) 376-2038</u>
<u>Mark Buckmaster</u>	<u>WHC</u>	<u>EEG</u>	<u>(509) 376-1792</u>
<u>Dave Einar</u>	<u>EPA</u>	<u>-</u>	<u>(509) 376-3883</u>
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ATTACHMENT #3
200 Aggregate Area
Attendance
February 26, 1992

NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Bill Fryer	SWEC	GSSC	509-376-9830
Joe King	SWEC	GSSC	509-376-4726
Lisa Chetnik Treichel	EM-442	DOE-HQ	301-903-8177
Hal Downey	WHC	ER-Program	509-376-5539
Allan C. Harris	DOE	OU Mgr.	509-376-4339
Bob Bryce	PNL		509-3767-8345
Ward Staubitz	USGS	EPA Support	206-593-6510
R.A. Carlson	WHC	WHC	509-376-9027
Mike Baehre	USACE	Unit Mgr.	509-376-1275
Brian Drost	USGS	EPA Support	206-593-6510
Jon Sprecher	B & L	Ecology Support	503-244-7005
Rich Hibbard	Ecology	CERCLA	206-493-9367
Darci Teel	Ecology	CERCLA	509-545-2312
Chuck Cline	Ecology	OU Mgr.	206-438-7556
Pamela Innis	EPA	OU Mgr.	509-376-4919
Donna Lacombe	PRC	EPA Contractor	206-624-2692
Dennis Faulk	EPA	Unit Mgr.	509-376-8631
Randall Price	WHC	Geophysics	509-376-9148
Steve Trent	WHC	Geology	509-376-7226
Julie Erickson	DOE	Br. Chief/ERB	509-376-3603
Michael Galgoul	WHC	Env. Eng.	509-376-2038
Mark Buckmaster	WHC	EEG	509-376-1792
Dave Einar	EPA		509-376-3883

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Attachment #4

Action Item Status List

Status of 200 Aggregate Area Activities
February 26, 1992

Item No.	Action/Source of Action	Status
2AAMS.1	Identify and implement the actions that are required to install the calibration pits for the borehole logging equipment. Action: Allan Harris (9/19/91)	Open
2AAMS.2	A map of the 200 West Area is to be provided to the regulators. All of the wells that have been located should be shown. Action: Steve Trent (WHC) (11/21/91)	Open
2AAMS.3	A discussion is to be held on the integration of the 100 Area and the 200 Aggregate Area logging programs at the meeting on 1/8/92. Action: Steve Trent (WHC) (12/17/91)	Open

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200 AGGREGATE AREA MANAGEMENT STUDY PROGRAM

Curtis D. Wittreich
Technical Coordinator

Steven J. Trent
Field Activities Coordinator

Michael J. Galgoul
200-UP-2 OU Work Plan Coordinator

February 26, 1992

Status 200 Aggregate Area Management Study Program

02/26/92

Area	Aggregate Area	AAMS Type	AAMS Report	Regulator Comments Due	M-27-00 Milestones
200 West	U Plant	Source	Draft A Submitted for Regulator Review	3/16/92	1/92
	Z Plant	Source	Draft A Completed		2/92
	S Plant	Source	Drafted-On Schedule		3/92
	T Plant	Source	Drafted-On Schedule		4/92
	200 West	Ground Water	On Schedule		9/92
200 East	PUREX	Source	On Schedule		5/92
	B Plant	Source	On Schedule		6/92
	Semi-Works	Source			7/92
	200 East	Ground Water			9/92
200 North	200 North	Source			8/92

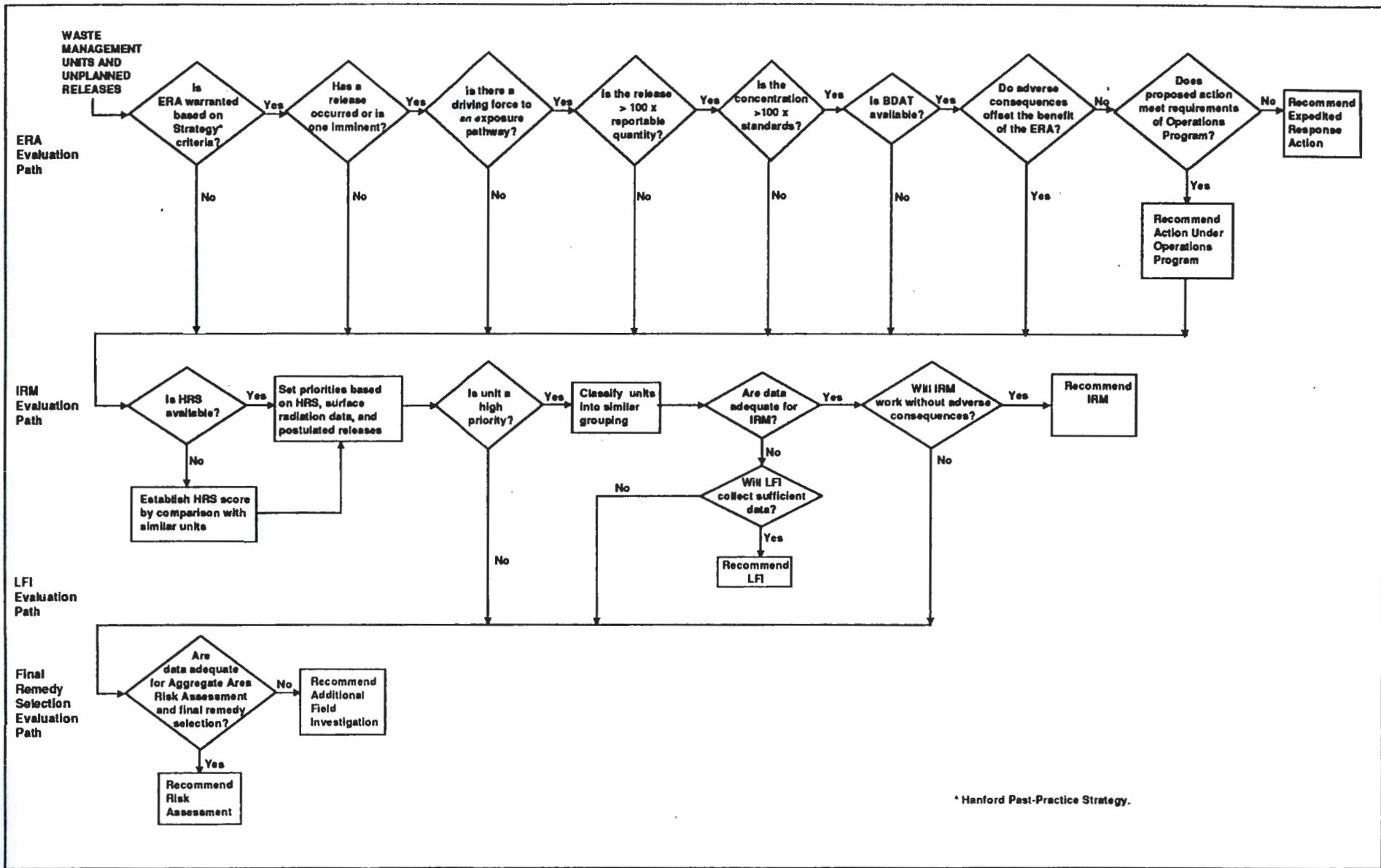


Figure 9-1. 200 Aggregate Area Management Study Data Evaluation Process.

200-UP-2 WORK PLAN STATUS -

- **Work Has Been Initiated**

RECOMMENDATIONS FROM THE U PLANT SOURCE AGGREGATE AREA MANAGEMENT STUDY REPORT

The 200-UP-2 Operable Unit Should Be Redefined As Follows:

- **Investigation Of Groundwater Should Be Included The 200 West Groundwater AAMS.**
- **The Geographic Boundaries Should Be Redefined To Include The 216-U-14 Ditch System Which Includes The 207-U Retention Basin In The 200-UP-1 Operable Unit**
- **Investigation Of The 216-U-17 Crib Should be Deffered**
- **Investigation Of The 241-WR Vault Should Be Deffered**

**TABLE SHOWING THE RELATIONSHIP AMONG THE 200-UP-2 WORK PLAN, RESCOPE 200-UP-2 WORK PLAN, AND THE
U PLANT AGGREGATE AREA MANAGEMENT STUDY REPORT**

200-UP-2 WORK PLAN	RESCOPE 200-UP-2 WORK PLAN
1.0 INTRODUCTION	1.0 INTRODUCTION
2.0 OPERABLE UNIT BACKGROUND AND SETTING	2.0 OU BACKGROUND AND SETTING (SUMMARIZE U PLANT AAMSR SECTIONS 2 & 3)
2.1 OPERABLE UNIT SITE DESCRIPTION	
2.2 PHYSICAL SETTING	
3.0 INITIAL EVALUATION	3.0 INITIAL EVALUATION (SUMMARIZE U PLANT AAMSR SECTIONS 4,5,6 & 7)
3.1 KNOWN AND SUSPECTED CONTAMINATION	
3.2 PRELIMINARY ARARs	
3.3 POTENTIAL IMPACTS TO HUMAN HEALTH & ENVIR.	
3.4 PRELIMINARY REMEDIAL ACTION OBJ. AND ALT.	
4.0 WORK PLAN RATIONALE	4.0 WORK PLAN RATIONALE (SUMMARIZE U PLANT AAMSR SECTIONS 8 & 9)
5.0 REMEDIAL INVESTIGATION (PHASE I)	5.0 REMEDIAL INVESTIGATION (INCLUDING THE SAP)
6.0 REMEDIAL ALTERNATIVES DEVELOPMENT AND SCREENING (FS PHASE I/II)	6.0 REMEDIAL ALTERNATIVES DEVELOPMENT AND SCREENING (FOCUSED FEASIBILITY STUDY)
7.0 OU CHARACTERIZATION & TREATABILITY (RI PHASE II)	(NOT APPLICABLE)
8.0 REMEDIAL ALTERNATIVES ANALYSIS (FS PHASE III)	(NOT APPLICABLE)
9.0 PROJECT SCHEDULE	9.0 PROJECT SCHEDULE
10.0 REFERENCES	10.0 REFERENCES
ATT 1 SAMPLING AND ANALYSIS PLAN	ATT 1 QAPP
ATT 2-5 HSP, PMP, DMP, & CRP	(REFERENCE U PLANT AAMSR APPENDIX AS PART OF DOCUMENT)

GENERAL TOPIC

CAN THE GROSS-GAMMA ASSIST THE SPECTRAL-GAMMA
IN LOCATING ZONES OF PROBABLE MAN-MADE RADIONUCLIDES?

OR

WILL THE GROSS-GAMMA MISS INTERVALS CONTAINING
MAN-MADE RADIONUCLIDES?

Attachment #8

PREPARED BY: GEOPHYSICS TEAM, FEBRUARY 1992
REVIEW OF BOREHOLES LOGGED BY BOTH THE GROSS-GAMMA AND SPECTRAL GAMMA

TOPICS OF PRESENTATIONS

LOGGING EQUIPMENT COMPARISON

PROBLEM CALIBRATING GROSS-GAMMA FOR MULTIPLE RADIONUCLIDES

STEEL CASING INFLUENCE ON GROSS-GAMMA RESPONSES

EXAMPLES OF GROSS-GAMMA LOG SURVEYS:

200 EAST

200 WEST

100 AREA (D)

CONCLUSION

LOGGING EQUIPMENT COMPARISON

	PNL GROSS-GAMMA	RLS SPECTRAL-GAMMA
LOGGING SPEED:	5 FT/MIN	0.3 - 5 FT/MIN
GAMMA ENERGY CUTOFF:	< 59.5 KEV (NO CASING)	< 59.5 KEV (IN CASING)
MAXIMUM COUNT RATE:	14,000 CPS (SATURATED)	100,000 CPS (SATURATED 250K)
MAXIMUM COUNT TIME:	6 SEC PER 0.5 FT.	UP TO 1000 SEC

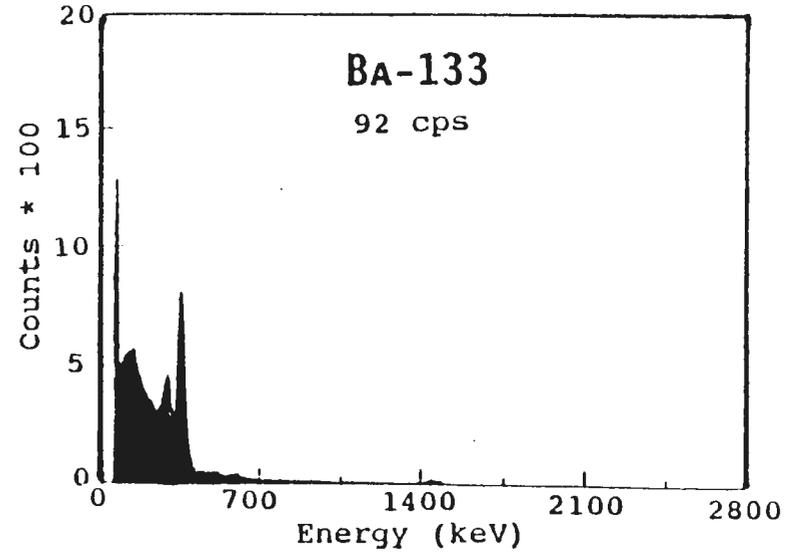
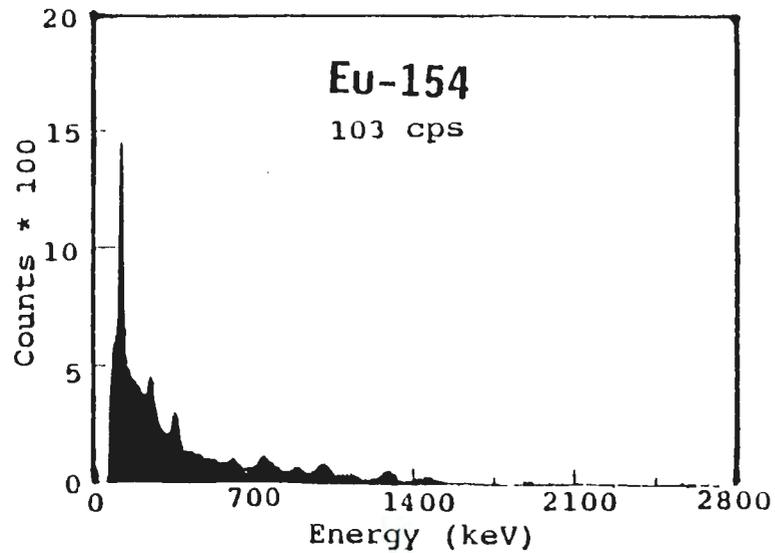
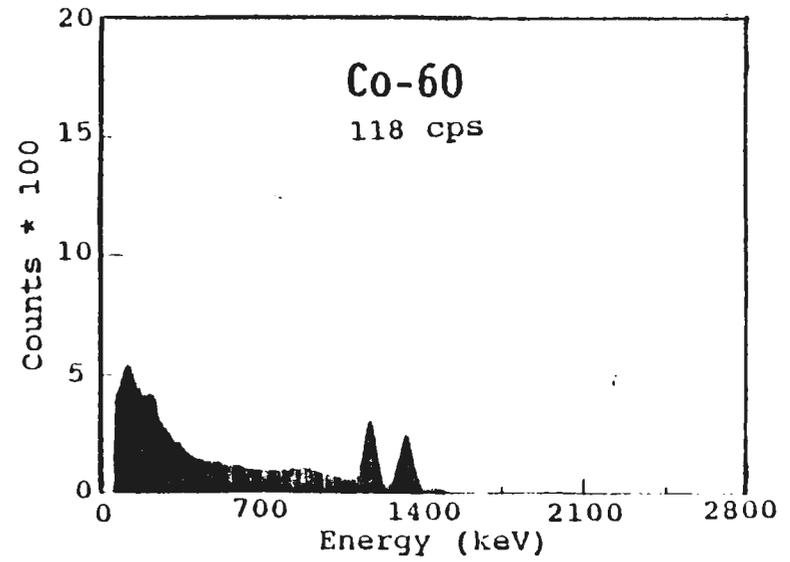
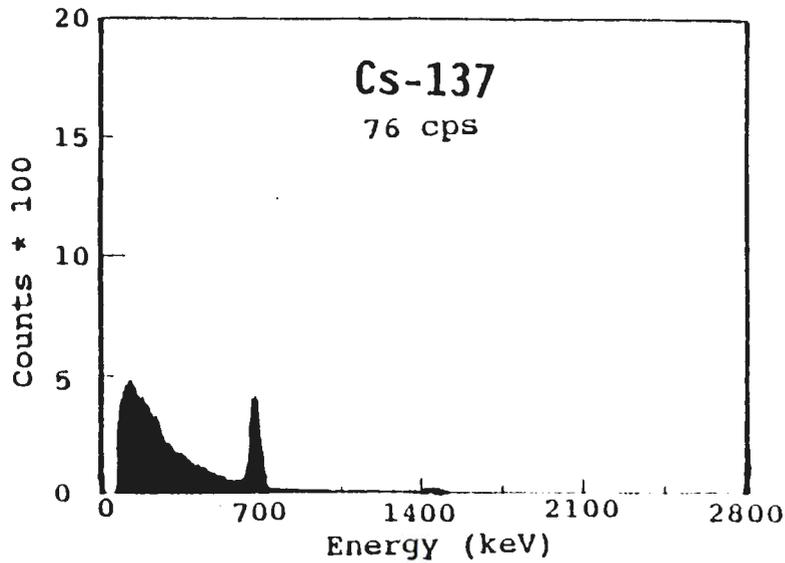
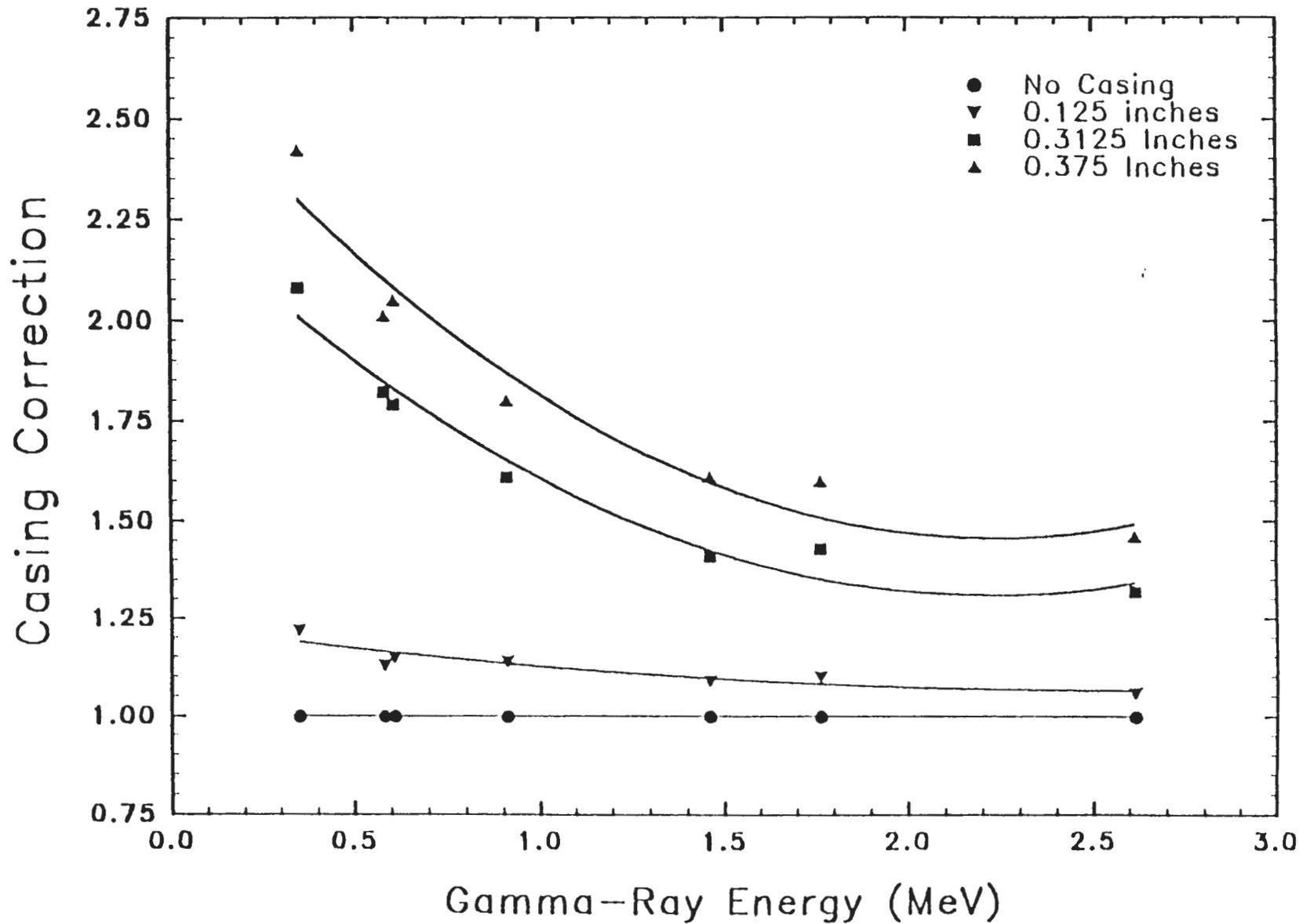


FIGURE 1: SODIUM IODIDE SPECTRA OF SELECTED RADIONUCLIDES

Steel Casing Correction



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Figure 2

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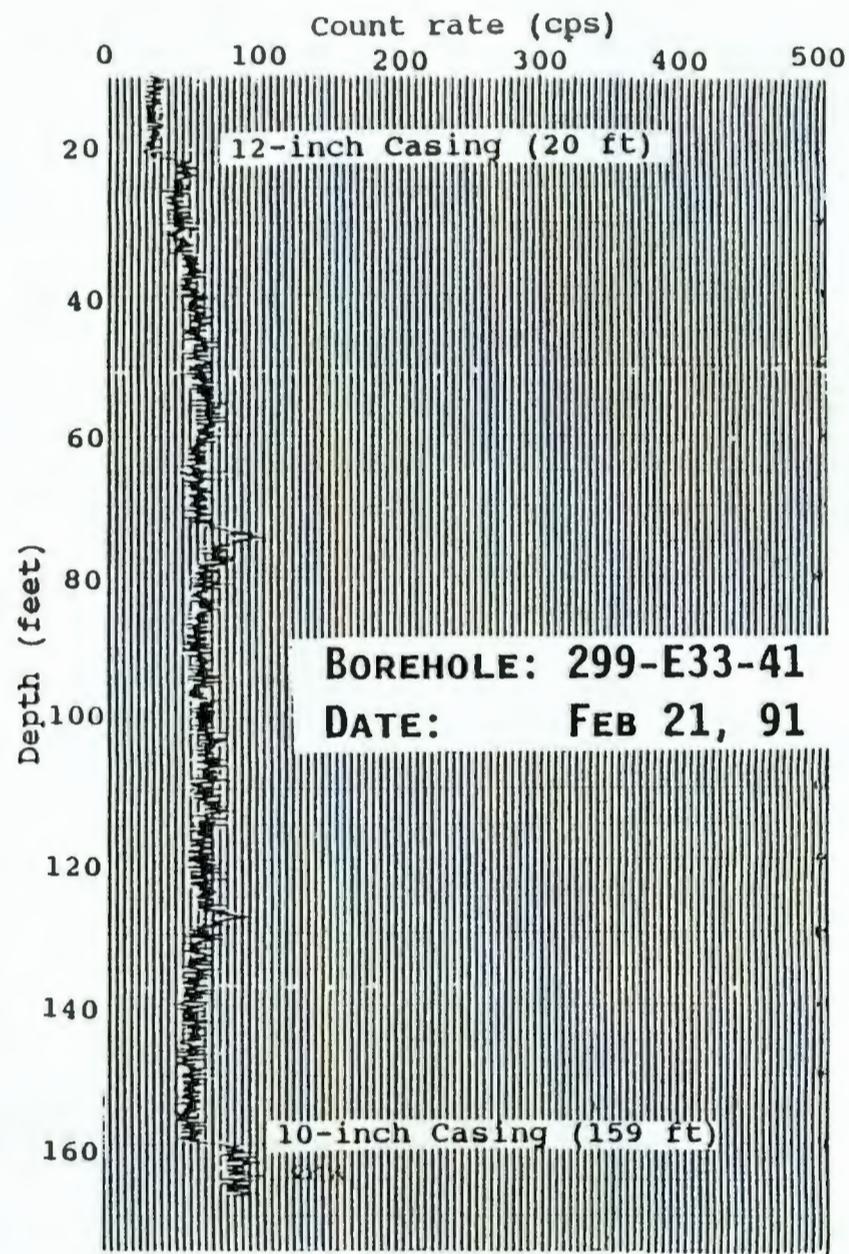
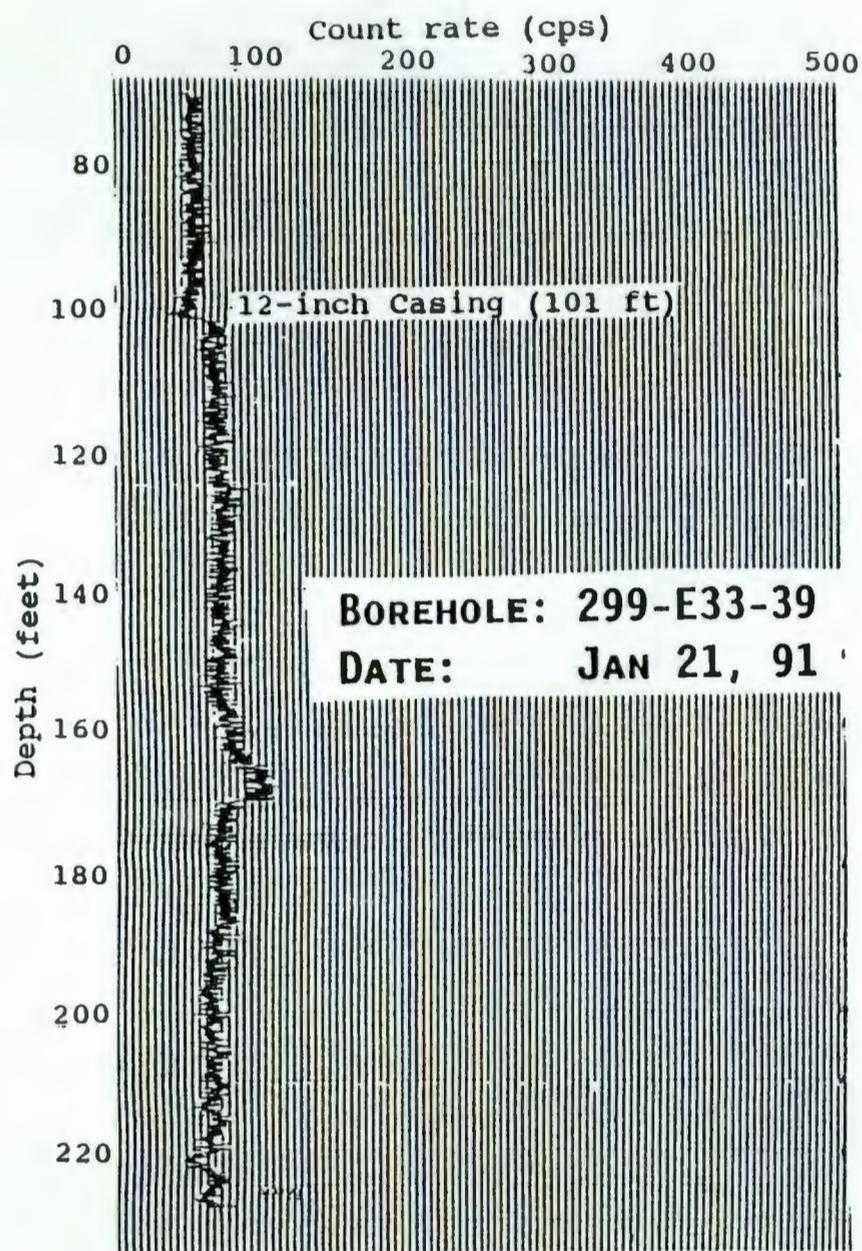


FIGURE 3: GROSS-GAMMA LOG OF NATURAL AND MAN-MADE RADIONUCLIDES IN 200 EAST

9 2 1 2 6 4 3 0 4 6 2

BOREHOLE: 299-W22-39

DATE: JAN 24, 91

BOREHOLE: 299-W18-171

DATE: FEB 21, 91

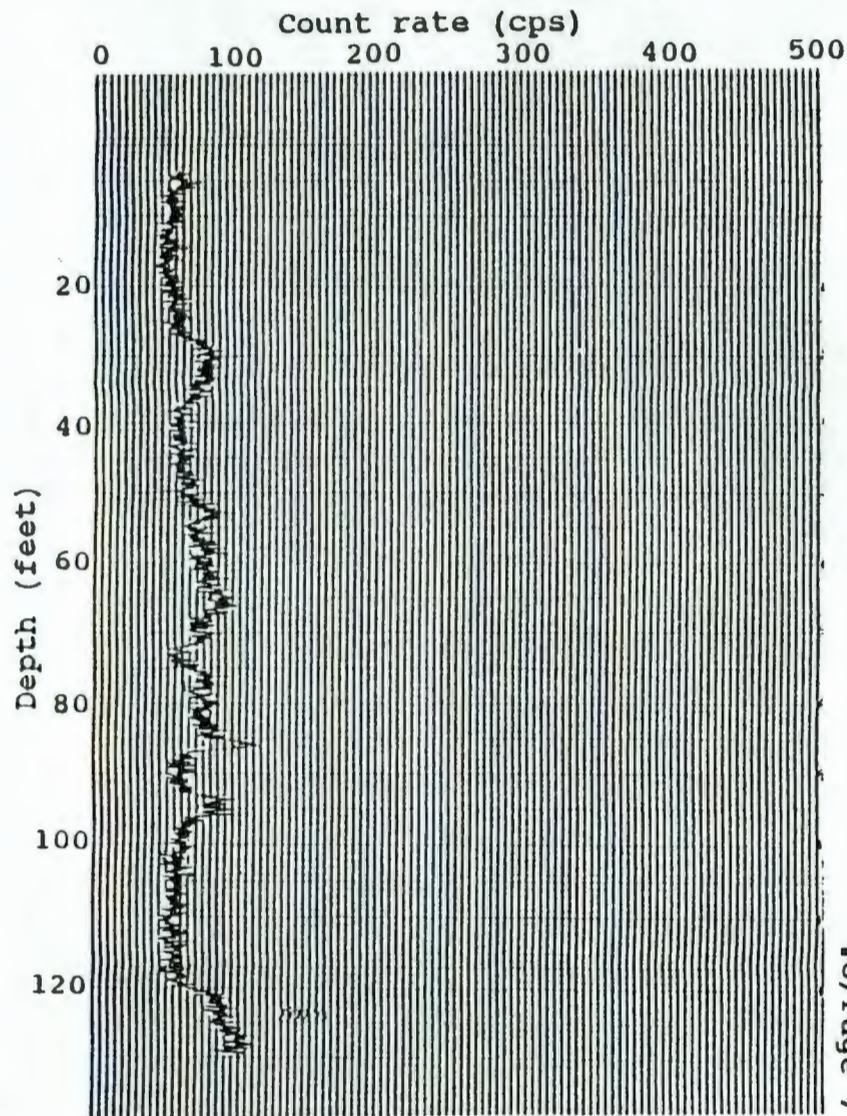
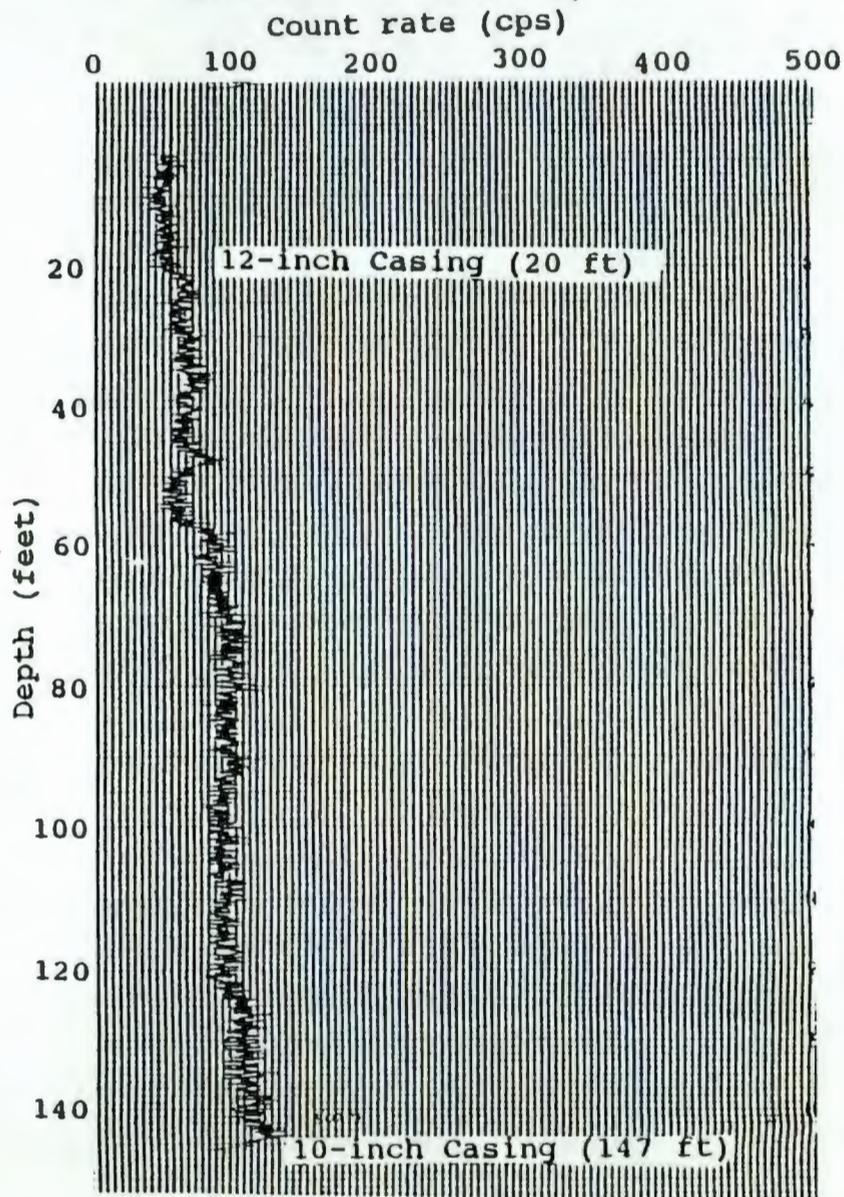


FIGURE 4: GROSS-GAMMA LOG OF NATURAL AND MAN-MADE RADIONUCLIDES IN 200 WEST

9 2 1 2 6 4 8 0 4 6 3

BOREHOLE: 199-D8-55

DATE: DEC 18, 91

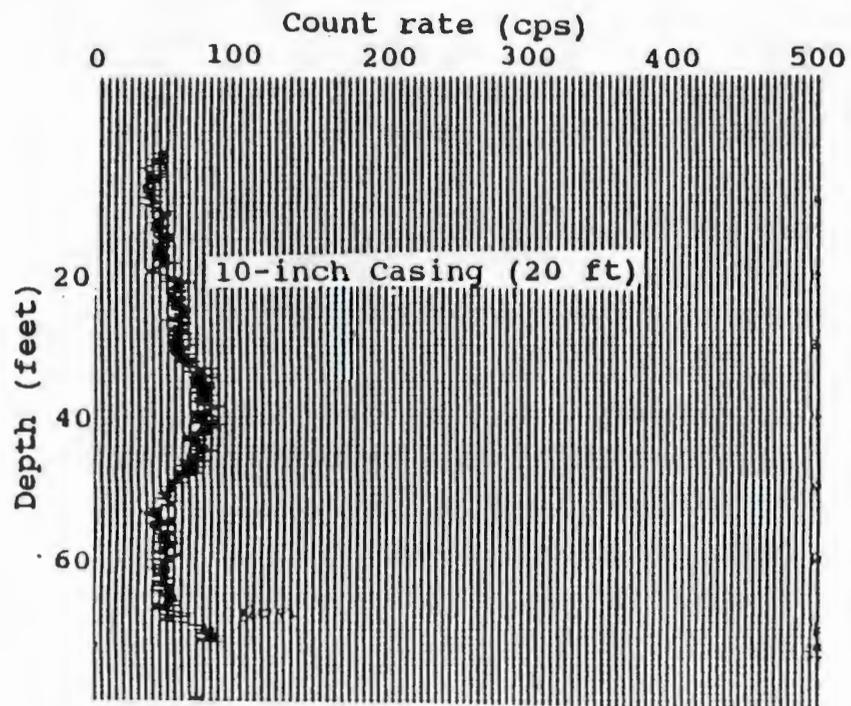


FIGURE 5: GROSS-GAMMA LOG OF NATURAL AND MAN-MADE RADIONUCLIDES AT 100-D

CONCLUSION

THE GROSS-GAMMA IS NOT ALWAYS CAPABLE OF IDENTIFYING
THE PRESENCE OF MAN-MADE RADIONUCLIDES BY GAMMA ACTIVITY
ABOVE THE NATURAL VARIATIONS COMMON IN THE SUBSURFACE.

Distribution

Status of 200 Aggregate Area Activities
February 26, 1992

Donna Lacombe, PRC	Ronald D. Izatt (A6-95)
Ward Staubitz, USGS	Director, DOE-RL, ERD
Doug Fassett, SWEC (A4-35)	Donald E. Gerton (A6-80)
Linda Powers, WHC (B2-35)	Director, DOE-RL, WMD
Tom Wintczak, WHC (B2-15)	Roger D. Freeberg (A6-95)
Mel Adams, WHC (H4-55)	Chief, Rstr. Br., DOE-RL/ERD
Wayne Johnson, WHC (H4-55)	Steven H. Wisness (A6-95)
Rich Carlson, WHC (H4-55)	Tri-Party Agreement Proj. Mgr
Brian Sprouse, WHC (H4-22)	Richard D. Wojtasek (B2-15)
Bill Price, WHC (S0-03)	Prgm. Mgr. WHC
Ralph O. Patt,	Mary Harmon, DOE-HQ (EM-442)
OR Water Resources Dept.	
Mike Thompson, DOE (A6-95)	
Diane Clark, DOE (A5-55)	
Mark Buckmaster, WHC (H4-55)	
Don Praast, GAO (A1-80)	
Curt Wittreich, WHC (H4-55)	
L.D. Arnold, WHC (B2-35)	

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

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

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