JUN 02 1992 (20)

ENGINEERING DATA TRANSMITTAL

0023927

Page 1 of 1

1. EDT 133058

To: (Receiving Organization) Distribution

3. From: (Originating Organization) GEOSCIENCES GROUP

4. Related EDT No: N/A

7. Purchase Order No: N/A

Proj/Prog/Dept/Div: W-017H

6. Cog/Proj Engr: BA WILLIAMS

9. Equip/Component No: N/A

Originator Remarks: SUPPORTING DATA FOR WELL CONSTRUCTION VARIANCE REQUEST (WELL W18-32)

10. System/Bldg/Facility: N/A

12. Major Assm Dwg No: N/A

Receiver Remarks:

13. Permit/Permit Application No N/A

14. Required Response Date:

DATA TRANSMITTED

(B) Document/Drawing No.	(C) Sheet No.	(D) Rev No.	(E) Title or Description of Data Transmitted	(F) Impact Level	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
WHC-SD-EN-TI-035		0	W18-32 RCRA WELL DATA	4	2/3	1	

KEY

Impact Level (F)	Reason for Transmittal (G)	Disposition (H) & (I)
1, 2, 3, or 4 see MRP 5.43 and EP-1.7	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

SIGNATURE/DISTRIBUTION

(See Impact Level for required signatures)

(H) Disp	17. (J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp
1	Cog./Proj. Eng	BA Williams	5/18/92	H4-56						
1	Cog./Proj. Eng. Mgr.	A.J. Knepp	6/1/92							
2	QA									
1	Safety									
	R.B. Mercer	R B Mercer	28 MAY 92	H4-56						
6	R.L. Jackson	RL Jackson	5/27/92	H4-56						
	W.R. THACKABERRY	W.R. Thackaberry	5-28-92	H4-16						

OCT 1992 RECEIVED EDMC

Signature of EDT Originator	Date	19. Authorized Representative for Receiving Organization	Date	20. A.J. Knepp Cognizant/Project Engineer's Manager	Date	21. DOE APPROVAL (if required) Ltr No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
	5/18/92				5/28/92	

BD-7400-172 (2/89)

Date Received: 6/2/92	INFORMATION RELEASE REQUEST	Reference: WHC-CM-3-4

Complete for all Types of Release

Purpose

- [] Speech or Presentation
  - [] Full Paper
  - [] Summary
  - [] Abstract
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  - (Check only one suffix)
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- [] Software/Database
- [] Controlled Document
- [X] Other

ID Number (include revision, volume, etc.): WHC-SD-EN-TI-035, Rev. 0

List attachments.

Date Release Required: 5-18-92

Title: W18-32 RCRA WELL DATA

Unclassified Category: UC-NA

Impact Level: 4

New or novel (patentable) subject matter? [X] No [] Yes
If "Yes", has disclosure been submitted by WHC or other company?
[X] No [] Yes Disclosure No(s).

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Date(s) of Conference or Meeting: NA

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Title of Journal: NA

CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval: Name (printed) / Signature / Date
Classification/Unclassified Controlled Nuclear Information	[]	[X]	
Patent - General Counsel	[X]	[]	SW BERGLIN [signature] 5/1/92
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Applied Technology/Export Controlled Information or International Program	[]	[X]	
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Publication Services	[]	[X]	
Other Program/Project	[]	[X]	

Information conforms to all applicable requirements. The above information is certified to be correct.

	Yes	No
References Available to Intended Audience	[X]	[]
Transmit to DOE-HQ/Office of Scientific and Technical Information	[]	[X]

Author/Requestor (Printed/Signature): B. A. WILLIAMS [signature] Date: 5/15/92

Intended Audience: [] Internal [] Sponsor [X] External

Responsible Manager (Printed/Signature): A. J. KNEPP [signature] for 5/15/92 Date

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

Stamp is required before release. Release is contingent upon resolution of mandatory comments.

APPROVED FOR RELEASE — OFFICIAL DOCUMENT — U.B. — Date 6/2/92

Date Cancelled

Date Disapproved

WHC-SD-EN-TI-035, REV. 0

ID Number

Lead Author	Phone	MSIN	Other Author(s) or Requestor
B. A. WILLIAMS	6-3416	H4-56	

Project or Program	Lead Org Code	Sponsor Agency (DOE, DOT, NRC, USGS, etc.)
ER	81231	DOE

Editor	Phone	MSIN	DOE/HQ Program (DP, EH, EM, NE, etc.)
			EM

Mandatory Comments (Only mandatory comments are to be documented. All other comments should be made on a copy of the information submitted for review and returned to the author.)	Reviewer Name & Signature	Date	Resolution	Reviewer Name & Signature	Date

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Patent Status	[ ]	[ ]			

N/A

Responsible Manager (Printed/Signature)

Additional Information

ID Number WHC-SD-EN-TI-035, REV. 0

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- [] Project or program manager concurs with the issuance of this report.
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- [] If a journal article, the reference style agrees with guidance from the client or journal publisher.
- [] Contributions from authors of other organizations indicated in the comment section of this form.
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- [] Document reports or reflects quality technical work.
- [] Scientific methodology used is logical and reasonable.
- [] Inferences and conclusions are soundly based.

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- [] Inventions
- [] New software developments
- [] Information meets environmental compliance.

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- [] All reviews are complete and this publication or presentation is approved for release (after resolution of mandatory comments).

SUPPORTING DOCUMENT

1. Total Pages 13

2. Title	3. Number	4. Rev. No.
W18-32 RCRA Well Data	WHC-SD-EN-TI-035	0

5. Key Words

Supporting Information for request for Washington Ecology Variance (well construction)

6. Author

B. A. Williams
Name (Type or Print)

5/22/92
Signature

WHC - Geosciences R331F
Organization/Charge Code W81231

7. Abstract

This document presents a request and supporting documentation to the State of Washington Department of Ecology for a variance as required in the WAC 173-160 for the nonconformance of RCRA well 299-W18-32. This well was constructed as part of the 1992 Hanford Federal Facility and Consent Order M-24-00. The nonconformance was identified during the completion of this well. A portion of the 10" drilling shoe was inadvertently detached from the 10" temporary casing and remains in the borehole within the screened interval. Because retrieving the drilling shoe is technically impossible, this document recommends that the well be sampled as is and that data generated from the well be "flagged" to denote the potential impact of the nonconformance on the data.

APPROVED FOR PUBLIC RELEASE
V. Rickland 6/2/92

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9. Impact Level
4

10. A. J. Knepp
Authorized Manager's Name (Type or Print)

5/28/92
Authorized Manager's Signature

Specify Distribution Limit External

11. RELEASE STAMP

OFFICIAL RELEASE BY WHC (20)
DATE JUN 02 1992
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WHC-SD-EN-TI-035, Rev. 0

APPENDIX

299-W18-32

WHC-SD-EN-TI-035 REV 0

FIELD ACTIVITY REPORT – CABLE TOOL RIG

Date	Well No.	Rig Model	Rig No.	Contract/Work Order No.	Start Card No.	Report No.
3-17-92	299-W18-32	n/a	n/a	W017 LL86	082909	30

Purpose	Reference	Location
RCRA GW Monitor Well Completion	WHC-SD-EN-AP-015.	200W U-farm

Casing Size	Set At	Type	Shoe Size	Casing Start Depth	Casing End Depth
12"	143.8 ft.	CS	1.12	148.8'	10.6'
10"	–	CS	94'	Depth Started 136.7	Depth Ended 10.0'

Reference/Measuring Point	Total Shift Footage
land surface	126.7'

Start Time	0700
End Time	1530
Time	6.75'
Contractor Time	1.75
Total Time	8.50

Materials Used: 161 sk 8-20 Bent. Crumbles.

Contract Line Items: n/a

Personnel
Operator _____ Lic No. 175
Print & Sign Name (Acceptance)
D. Lothe - Driller
Other:
D. Hickman - helper
B. Taylor SSO
D. Thornton - operator
P. Anderson
L. Weingeist Geo

Depth (feet) From	Depth (feet) To	Drilling Method (HT DB ST)	Description of Operations/Remarks
			0700 - arrive on site
			0700 - 0715 - driller works on logs.
			0715 - 0930 Back pull Casing
			0745 - 0830 pull 10" Casing - last 10" shoe
			0830 - 0915 place and weld 12" casing (puller head)
			SSO checks borehole, no elevated readings
			3 ft stainless steel well riser removed
			4.9 ft. of 12" casing added (puller head)
			0915 - 1200 continue pulling 12" casing and adding crumbles
			1035 SSO checks borehole, PID, LEL < det.
			1200 - 1240 lunch
			1240 - 1415 resume pulling 12"
			1400 SSO checks borehole; PID, LEL < det.
			1415 - 1505. waiting for grout pump
			1505 - End of Day leave Site Summary: no Jetting; no circ; no H2O
			DT - 1¼ hr - lack of Grout Plant.

Report By Paul Anderson
Title Geologist
Signature Paul W. Anderson

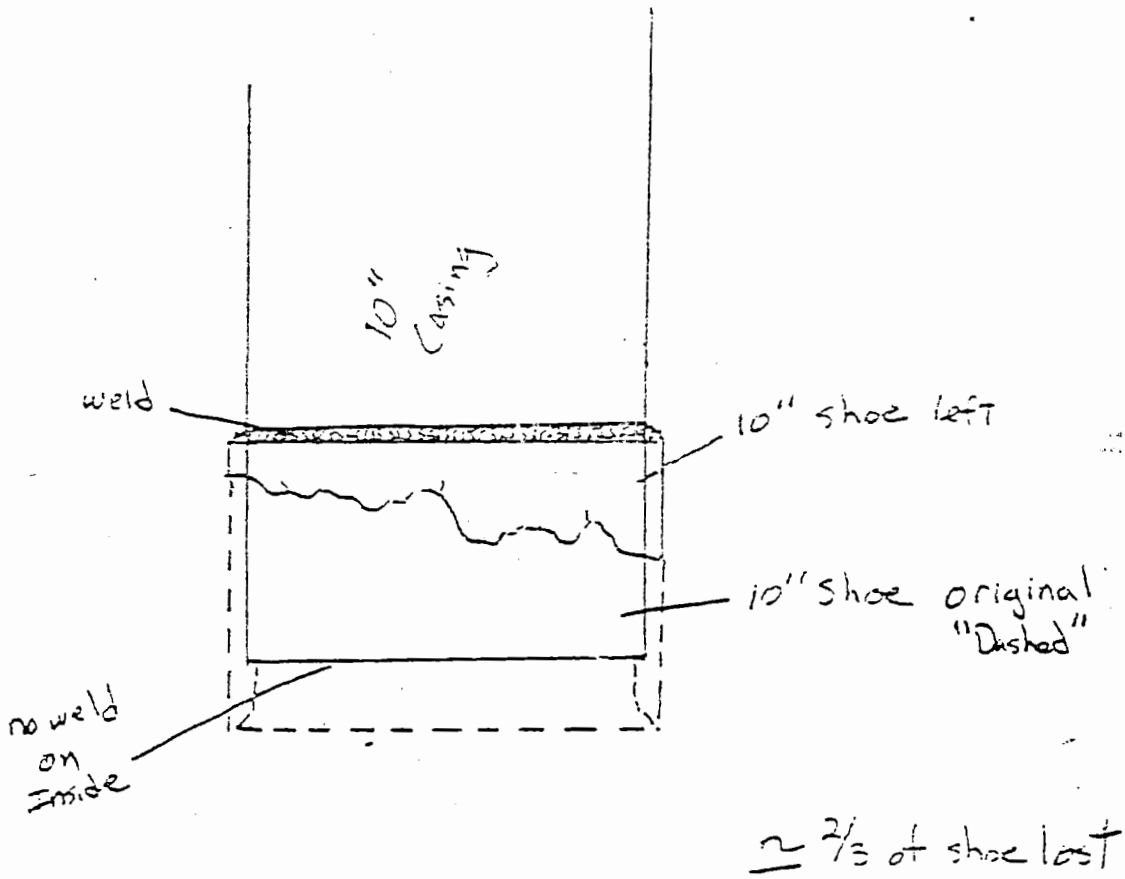
Reviewed By _____
Title _____ Date _____
Signature _____

Distribution: White – Group File Custodian Yellow – Group Files Pink – Project Coordinator Goldenrod – Team Leader BC-6000-290 (02/90)

WHC-SD-EN-TI-035, REV 0

FIELD ACTIVITY REPORT – DRAWING CONTINUATION PAGE

Date	Well No.	Continuation of Report No.
3-7-92	299-W18-32	30



Report By R. Wangerz	Reviewed By
Title Well Site Geologist	Title Date
Signature	Signature

WHC-SD-EN-TI-035, REV 0

WELL SUMMARY SHEET

Boring or Well No. 299-W18-32

Sheet 1 of

In 200 West Area, west of "U" tank farm

Project W-017 LLBG

on

Drilling Contractor Kaiser Engineers Hanford

Daniel Ludtke

Drilling Method and Equipment cable tool / drive barrel, hand tool

ed By Paul W. Anderson / Paul Anderson (Sign/Print Name) Date 1/27/92

Reviewed By E.C. Rafuse / E.C. Rafuse (Sign/Print Name) Date 2/29/92

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Diagram		Graphic Log	Lithologic Description
s. casing (temporary) to		5.0		slightly gravelly SAND
0 ft		10.0		slightly gravelly SAND
t Cut 100.4-1.6'		15.0		slightly gravelly SAND
		20.0		slightly gravelly SAND
Dash Crumbs.		25.0		slightly gravelly SAND
9L4 - 10.0'		30.0		slightly gravelly SAND
		35.0		gravelly SAND
		40.0		sandy GRAVEL (36-41 ft.)
		45.0		SAND
"c.s casing (temporary)		50.0		SAND
-- 143.58 ft.		55.0		SAND
		60.0		SAND
T204 4" S.S. Cap in		65.0		SAND
201.69 - -4.1'		70.0		SAND
		75.0		SAND
		80.0		SAND
		85.0		SAND
		90.0		SAND
		95.0		SAND
		100.0		sandy GRAVEL (begins at 97 ft)
		105.0		gravelly SAND
		110.0		SAND (begins at 107 ft)
		115.0		SAND
		120.0		sandy clayey SILT (begins at 119.5 ft)
		125.0		SAND
		130.0		SAND (silt lense 128.3-128.9 ft)
		135.0		SAND
		140.0		silty clayey SAND
143.88		145.0		silty clayey SAND
		150.0		CALICHE
RWA 2/28/92		155.0		sandy GRAVEL
		160.0		sandy GRAVEL
		165.0		sandy GRAVEL

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WELL SUMMARY SHEET

Boring or Well No. 299-W19-32

Sheet 2 of 2

Location 200W, west of "U" tank farm

Project W-017 UBC

Elevation

Drilling Contractor Kaiser Engineers Hanford

Driller Darryl Ludtke

Drilling Method and Equipment cable tool / hard tool

Prepared By Paul Anderson / Paul Anderson (Sign/Print Name) Date 2/27/92

Reviewed By E.C. [illegible] / E.C. [illegible] (Sign/Print Name) Date 2/29/92

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Diagram		Graphic Log	Lithologic Description
304 4" ID casing - 201.64' - 41'		170.0		sandy GRAVEL
30 mesh Bent Crumbles.		175.0		sandy GRAVEL
10.0' - 191.4'		180.0		sandy GRAVEL
2" ⌀ carbon steel casing		185.0		sandy GRAVEL
set at 221.79 ft		190.0		sandy GRAVEL
Bent. Pellets. 191.4 - 194.8		195.0		sandy GRAVEL
Minus Driving Shoe		200.0		sandy GRAVEL
20-40 Silica Sand 223.2' - 194.8		205.0		sandy GRAVEL
10 set 4" ID T304 screen		210.0		sandy GRAVEL
222.08' - 201.64'		215.0		sandy GRAVEL
		220.0		sandy GRAVEL
Silt 225' - 223.2'		225.0		sandy silty GRAVEL
T.D. 225.0'				

2-6000-384 (04-90

WHC-SD-EN-TI-035, REV 0

BOREHOLE LOG

Boring or Well No. 299-W18-32

Sheet 10 of

Location 200 West, west of "U" tank farm

Project W-017 UBC

Elevation

Drilling Contractor Kaiser Engineers Hanford

Driller Darryl Luttrell

Drilling Method and Equipment cable tool / hard tool

Prepared By Paul Wilkinson / Paul Anderson (Sign/Print Name) Date 2/28/92

Reviewed By (Sign/Print Name) Date

Depth (feet)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description: Soil Classification, Particle Size Distribution, Color, Moisture Content, Sorting, Angularity, Mineralogy, Reaction to HCL	Comments: Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
80.0	2 lith. 1 rad. 1 moist	HT.		180.0' sandy GRAVEL	PID check 2/28/92 @ 1150
				70% round to subround gravel; size distribution probably same as previous samples	
				90% mafic, 10% felsic; 30% sand; 10% coarse fragments of gravel; 10% medium, 10% fine	moisture content unknown
				60% mafic (basalt) 40% felsic (quartz, quartzite, meta siltstone) poorly sorted, cemented, no reaction to 10% HCL; 5Y 6/1 gray - dry - 5Y 3/1 very dark gray - wet	
85.0	2 lith 1 rad 1 moist	HT		185.0' sandy GRAVEL	
				same as above with some clay	PID check 3-2-92 0100
					moisture content unknown
					oily sheen on cuttings
					check CCl4 = 10 ppm
190.0	2 lith 1 rad 1 moist	HT		190.0' sandy GRAVEL	PID = 1.6 ppm 3-3-92 @ 1000
				same as above with less clay than @ 185 FT	sample 3-3-92 @ 0945
					moisture content unknown
					oily sheen on cuttings more pronounced than at 185 FT.
					@ 192 FT PID = 5.7 ppm
					CCl4 = 11 ppm
195.0	2 lith 1 rad moist	HT		195.0' sandy GRAVEL	PID = 4 ppm @ 1320 3-3-92
				same as above	sample @ 1340 3-3-92
					no oily sheen

BOREHOLE LOG

Boring or Well No. 299-W18-32

Sheet 1 of

Location 200 West, west of Utah Farm Project W017-L086 WHC-VI-EN-77-035 REV

Elevation Drilling Contractor KEH

Driller Darrel Wolfe Drilling Method and Equipment Cable tool RE224

Prepared By K.J. Scott Rathbun (Sign/Print Name) Date 3-6-92 Reviewed By (Sign/Print Name) Date

Depth (Feet)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description: Soil Classification, Particle Size Distribution, Color, Moisture Content, Sorting, Angularity, Mineralogy, Reaction to HCl	Comments: Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
200.0	21.4h 1 rad 1 moist	FT		200' Sandy GRAVEL	PID < Det
				same as above w/ some silt	sample 3-4-92 @ 1100
					moisture content unknown
205.0	21.4h 1 rad 1 moist	FT		205' Sandy GRAVEL some silt	PID = 7 ppm @ 1400 3-4-92
				same as above	CCl_4 Tube = 16 ppm
				pulverized gravel from hard tool	CCl_4 shut out when
				cuttings consists of 90% basalt	casing is driven to 202' and
				5% Quartz and Sandstone	10 gal H_2O added to borehole
				5% Granite and Gneiss	moisture content unknown
				trace volcanics	Hard formation 208'-212'
					(casing drives hard)
210.0	21.4h 1 rad 1 moist	FT		210' Sandy GRAVEL some silt	PID < Det
				same as above	sample 3-5-92 @ 1400
					moisture content unknown
215.0	21.4h 1 rad 1 moist	FT		215' Sandy GRAVEL some silt	PID < Det
				same as above	sample 3-5-92 @ 0900
					encountered water @
					1217 FT
TD					

A-6000-382 (04/90)

WHC-SD-EN-TI-029 Rev 0

BOREHOLE LOG

Boring or Well No. 299-W18-32

Sheet 12 of 2

Location 200 West, west of U tank farm

Project W017-LLBG

Elevation

Drilling Contractor KEH

Driller Darryl Ludike

Drilling Method and Equipment Cable tool BE22th / hard tool, drive barrel

Prepared By K.J. Smith (Sign/Print Name)

Date

Reviewed By (Sign/Print Name)

Date

Depth (feet)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description: Soil Classification, Particle Size Distribution, Color, Moisture Content, Sorting, Angularity, Mineralogy, Reaction to HCL	Comments: Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
220.0	21th 1 rad 1 moist	FT		220' Sandy GRAVEL, some silt	PID det 3692
				same as above	sample @ 1400
					moisture characterized?
					Road crew spraying herbicide on road shoulders adjacent to well @ 1400 7-6-92
	21th. 1 rad. 1 moist	D.S.		225.0': sandy silty GRAVEL	PID det. 3/9/92 @ 1355
225.0				70% sand to angular gravel; 40% very coarse cobbles, 10% coarse, 10% medium, 10% fine-cobbles; 40% silt; 20% sand; 10% very coarse, 5% medium, 5% fine; 80% silt (quartz, quartzite, feldspar); 20% mafic; 10% silt + trace clay; cemented, poorly sorted, no reaction to 10% HCl, slightly moist, 2.5Y 4/4 olive brown - wet; 2.5Y 7/4 pale yellow - dry	

A-6000-382 (04/90)

FIELD ACTIVITY REPORT – CABLE TOOL RIG

Date	Well No.	Rig Model	Rig No.	Contract/Work Order No.	Start Card No.	Report No.
4-7-92	299-W18-32	N/A	N/A	W013LLBG	082509	32

Purpose	Reference	Location
RCRA GW MONITORING WELL	WHC-SD-EN-AP-015 REV 0	200 WEST.

Casing Size	Set At	Type	Shoe Size	Casing Start Depth	Casing End Depth
—	N/A	—		N/A	N/A
				Depth Started N/A	Depth Ended N/A.

Start Time	0745
End Time	0845
Time	1.0
Contractor Time	Ø
Total Time	1.0

Reference/Measuring Point: GROUND SURFACE

Total Shift Footage: Ø

Materials Used: N/A

Contract Line Items: N/A

Personnel
Operator N/A Lic No. —
Print & Sign Name (Acceptance)
A. PATTON - GEOPHYS/PM
Other: M. EDGERTON - SSO
MD SWEENEY - GEO.

Depth (feet) From	Depth (feet) To	Drilling Method (HT DB ST)	Description of Operations/Remarks
			0745 ARRIVE ONSITE. A. PATTON AT 299-W18-247.
			WAITING TO LOG W18-32. CONTACT
			M. EDGERTON TO GET SSO CHECK OF
			BOREHOLE TO BEGIN MAGNETIC LOG.
			0800 M. EDGERTON CHECKS BOREHOLE/INSTL: CLO
			BEGIN SETUP OF MAGNETIC LOG.
			0806 TAG BOTTOM OF CASING @ 221.2' BLS.
			SOFT TAG - SOME SEDIMENT IN
			BOTTOM OF WELL.
			0813 MAGNETIC LOG PROBE IN WELL.
			0815 BEGIN LOGGING RUN #1
			0831 END LOGGING RUN #1
			0832 BEGIN LOGGING RUN #2
			0840 END LOGGING RUN #2
			0845 RETURN TO 299-W18-247.

Report By MD SWEENEY
Title GEOLOGIST
Signature [signature]

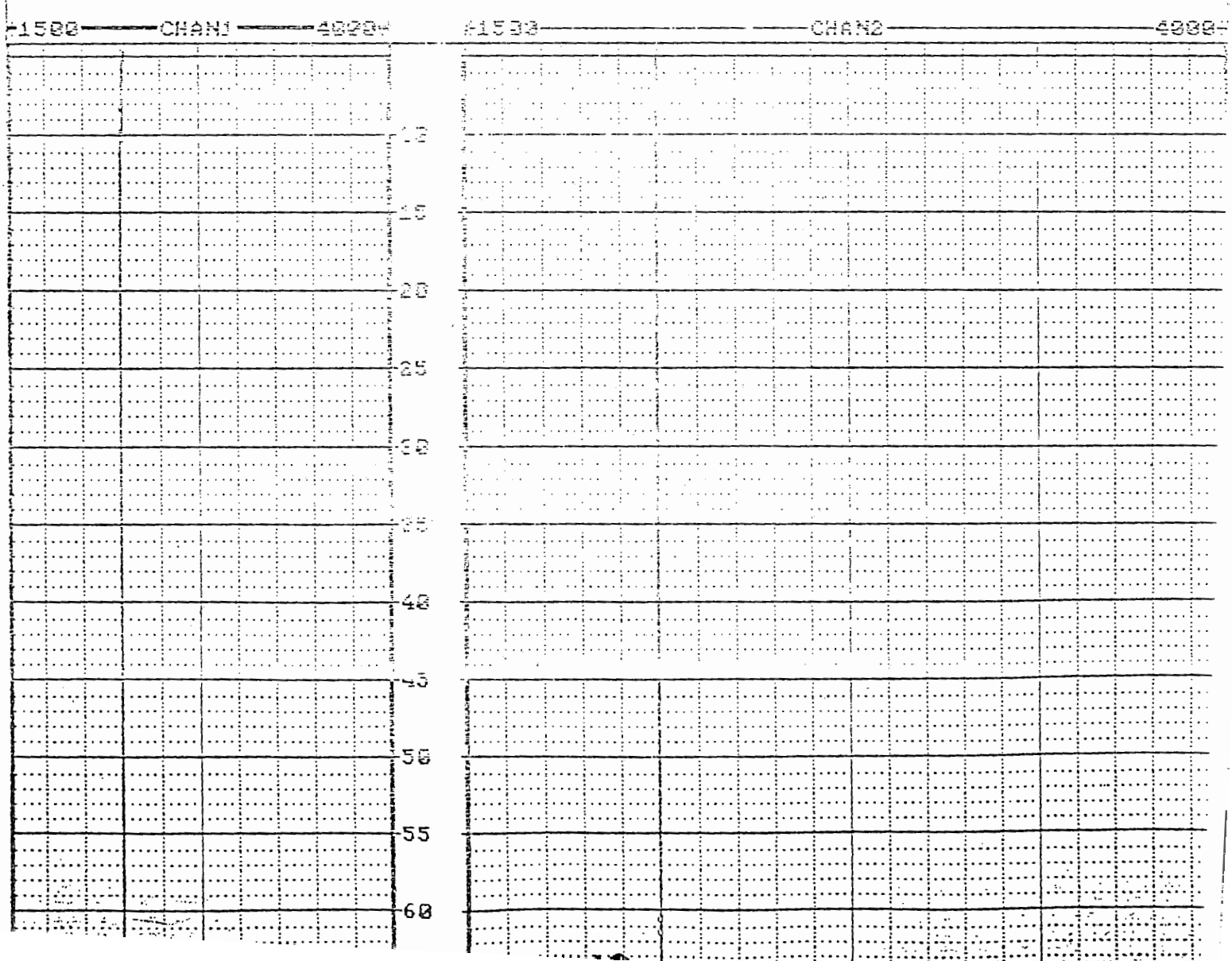
Reviewed By
Title Date
Signature

Distribution: White – Group File Custodian Yellow – Group Files Pink – Project Coordinator Goldenrod – Team Leader BC-6000-290 (02

WHC-SD-EN-TI-035, REV0

299-W18-32 Magnetic 220.2'-4.9' 4/7/92

OUT:E:\LLBG\299W1832.TA1 (ON) Revs:1091 Bytes:89675 Free:23320K
4.8 1.2 2257.6 2113.5 1593.8 457.9 5000.0 4863.1 4814.467



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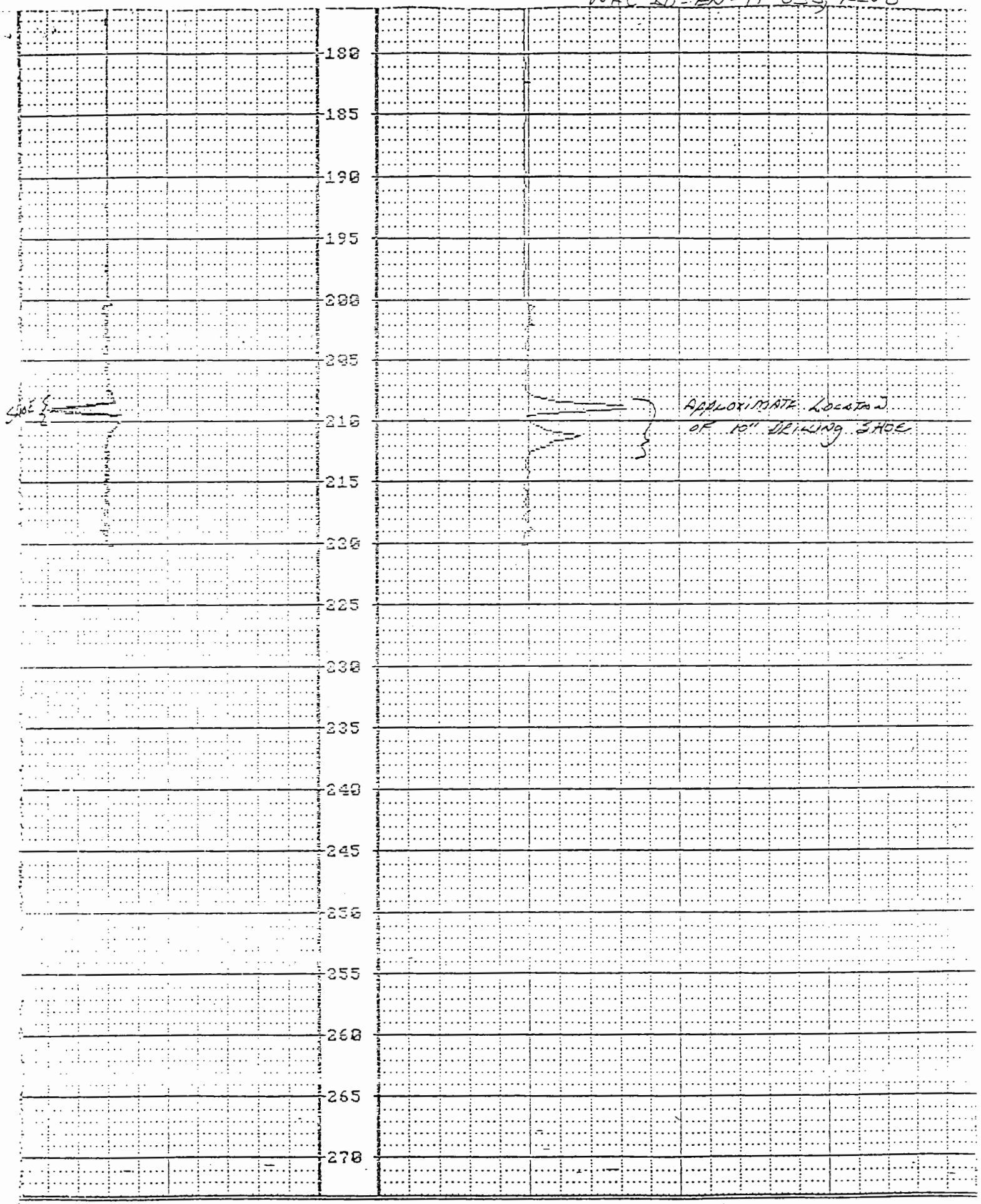

OUT:E:\LLBG\299W1832.TA1 (ON) Recs:14 Bytes:977 Free:23398K
229.2 1.2 2255.3 2099.0 1591.0 461.6 5000.0 4858.6 4814.1

1500 CHAN1 4000 1500 CHAN2 4000