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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 158868

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) 200/300 Area Remedial Investigation Group	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: ER	6. Cog. Engr.: S. J. Trent	7. Purchase Order No.: N/A
8. Originator Remarks: Document for review/release.		9. Equip./Component No.: N/A
11. Receiver Remarks:		10. System/Bldg./Facility: N/A
		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A



15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Impact Level	Reason for Trans- mittal	Orig- inator Dispo- sition	Receiv- er Dispo- sition
1	WHC-SD-EN-DP-028	N/A	0	Semiworks Geologic and Geophysics Data Package for the 200 Aggregate Area Management Study	4			

16. KEY			
Impact Level (F)	Reason for Transmittal (G)		Disposition (H) & (I)
1, 2, 3, or 4 (see MRP 5.43)	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

17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)										(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
1	1	Cog. Eng. S. J. Trent	<i>S. J. Trent</i>	6/3/92	H4-56						
1	1	Cog. Mgr. R. A. Carlson	<i>R. A. Carlson</i>	6/3/92	H4-55						
		QA									
		Safety									
		Env.									
1	1	C. D. Wittreich	<i>C. D. Wittreich</i>		H4-55						

18. S. J. Trent <i>S. J. Trent</i> 4/3/92 Signature of EDT Originator Date	19. Authorized Representative Date for Receiving Organization	20. R. A. Carlson 6/3/92 Cognizant/Project Engineer's Manager Date	21. DOE APPROVAL (if required) Ltr. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
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SUPPORTING DOCUMENT

1. Total Pages 28

2. Title

Semiworks Geologic and Geophysics Data Package for the 200 Aggregate Area Management Study

3. Number

WHC-SD-EN-DP-028

4. Rev No.

0

5. Key Words

Geophysics, Data Package, Semiworks, AAMS, Geology

**APPROVED FOR
PUBLIC RELEASE**

6/23/92 D. Dales

6. Author

Name: S. J. Trent

S. J. Trent 6/3/92
Signature

Organization/Charge Code 81232/PH22A

7. Abstract

WHC, 1992, *Semiworks Geologic and Geophysics Data Package for the 200 Aggregate Area Management Study*, WHC-SD-EN-DP-028, Rev. 0, prepared by M. A. Chamness, S. M. Goodwin, S. S. Teel, Pacific Northwest Laboratory for Westinghouse Hanford Company, Richland, Washington.

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10. RELEASE STAMP

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9. Impact Level 4

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INTRODUCTION

This data package includes all of the geologic and geophysical information requested by the Westinghouse Hanford Company (WHC) for the Semi-Works (C-Plant) aggregate area. This information includes a listing of all of the boreholes within this aggregate area as defined by WHC and amended by the Pacific Northwest Laboratory. Geophysical data (Table 1) includes the type of log, date, and interval logged for each of the above wells, as well as the location where these data are stored. Table 2 includes the types of geologic data available for each of these wells (i.e., driller's log, geologist's log) and any other related data (sieve, CaCO_3 content, moisture content, and chemical analyses). Table 3 provides a summary of the well construction information for each well including drill depth, completion depth, screened interval, and coordinates. As-built diagrams for the following wells are provided in the Appendix.

299-E24-7
299-E24-8
299-E27-1
299-E27-5
299-E27-11
299-E27-126
299-E27-127
299-E27-128
299-E27-129
299-E27-130
299-E27-131
299-E27-132
299-E27-133
299-E27-138
299-E27-140
299-E34-2

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TABLE 1. TABLE OF GEOPHYSICAL LOGS FOR SEMI-WORKS AAMS

AAMS	WELL	LOG RUN	DATE	TOP	BOTTOM	LOGGED BY	LOGGER	PROBE #	LOG LOCATION
SW	299-E24-7	NAT. GAMMA	5/12/59	0	320	PNL	V.L. McGHAN		\$
SW	299-E24-7	TEMP	3/7/62	314	442	PNL	V.L. McGHAN		£
SW	299-E24-7	TEMP	5/1/62	314	415	PNL	V.L. McGHAN		£
SW	299-E24-7	TEMP	5/28/62	314	414	PNL	V.L. McGHAN		£
SW	299-E24-7	TEMP	11/6/62	314	414	PNL	V.L. McGHAN		£
SW	299-E24-7	TEMP	1/16/63	314	414	PNL	V.L. McGHAN		£
SW	299-E24-7	NAT. GAMMA	5/20/63	0	414	PNL	V.L. McGHAN		Ø
SW	299-E24-7	TEMP	8/2/63	311	414	PNL	V.L. McGHAN		£
SW	299-E24-7	NEUTRON	6/11/65	0	310	PNL	V.L. McGHAN		√
SW	299-E24-7	TEMP	2/12/74	314	414	PNL	V.L. McGHAN		£
SW	299-E24-8	NAT. GAMMA	5/12/59	0	295	PNL	V.L. McGHAN		\$
SW	299-E24-8	NAT. GAMMA	5/17/63	0	374	PNL	V.L. McGHAN		Ø
SW	299-E24-8	NAT. GAMMA	4/18/68	0	318	PNL	V.L. McGHAN		Ø
SW	299-E24-8	NAT. GAMMA	5/4/76	5	322	PNL	V.L. McGHAN		"
SW	299-E24-8	DENSITY	11/16/76	4	323	PNL	V.L. McGHAN		¢
SW	299-E24-8	DENSITY	11/16/76	4	323	PNL	V.L. McGHAN		1
SW	299-E24-8	NEUTRON	2/9/77	4	322	PNL	V.L. McGHAN		5
SW	299-E27-1	NAT. GAMMA	5/12/59	0	280	PNL	V.L. McGHAN		\$
SW	299-E27-1	TEMP	3/6/62	278	315	PNL	V.L. McGHAN		£
SW	299-E27-1	TEMP	5/1/62	279	316	PNL	V.L. McGHAN		£
SW	299-E27-1	TEMP	11/6/62	278	316	PNL	V.L. McGHAN		£
SW	299-E27-1	TEMP	1/16/63	277	316	PNL	V.L. McGHAN		£
SW	299-E27-1	NAT. GAMMA	5/17/63	0	316	PNL	V.L. McGHAN		Ø
SW	299-E27-1	TEMP	8/2/63	277	316	PNL	V.L. McGHAN		£
SW	299-E27-1	TEMP	12/23/63	277	316	PNL	V.L. McGHAN		£
SW	299-E27-1	NEUTRON	6/23/65	0	275	PNL	V.L. McGHAN		√
SW	299-E27-1	TEMP	2/4/74	276	302	PNL	V.L. McGHAN		£
SW	299-E27-1	NAT. GAMMA	7/14/87	3	322	PNL	V.L. McGHAN	NG-001	"
SW	299-E27-5	NAT. GAMMA	5/20/63	0	338	PNL	V.L. McGHAN		Ø
SW	299-E27-5	NEUTRON	6/23/65	0	279	PNL	V.L. McGHAN		√
SW	299-E27-5	NAT. GAMMA	4/18/68	0	334	PNL	V.L. McGHAN		Ø
SW	299-E27-5	TEMP	3/4/74	280	333	PNL	V.L. McGHAN		£
SW	299-E27-5	NAT. GAMMA	5/4/76	5	333	PNL	V.L. McGHAN		"

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TABLE 1. TABLE OF GEOPHYSICAL LOGS FOR SEMI-WORKS AAMS

AAMS	WELL	LOG RUN	DATE	TOP	BOTTOM	LOGGED BY	LOGGER	PROBE #	LOG LOCATION
SW	299-E27-5	DENSITY	6/17/76	3	333	PNL	V.L. McGHAN		¢
SW	299-E27-5	NEUTRON	2/9/77	5	333	PNL	V.L. McGHAN		∞
SW	299-E27-5	NEUTRON	3/22/77	4	333	PNL	V.L. McGHAN		∞
SW	299-E27-11	NAT. GAMMA	7/12/89	4	148	PNL	V.L. McGHAN	CG 27A97	08
SW	299-E27-11	NAT. GAMMA	7/21/89	120	263	PNL	V.L. McGHAN	CG 27A97	08
SW	299-E27-126	NOT LOGGED							
SW	299-E27-127	NOT LOGGED							
SW	299-E27-128	NOT LOGGED							
SW	299-E27-129	NOT LOGGED							
SW	299-E27-130	NOT LOGGED							
SW	299-E27-131	NOT LOGGED							
SW	299-E27-132	NOT LOGGED							
SW	299-E27-133	NAT. GAMMA	3/20/84	5	49	PNL	V.L. McGHAN	CG 27A97	∞
SW	299-E27-138	NOT LOGGED							
SW	299-E27-140	NOT LOGGED							
Ø	Gamma Scintillation		PNL Sigma V	Small Notebook					
	200 East Area		Room 2521						
	299-E13-1 to								
	299-E34-1								
∞	Gamma Logs		PNL Sigma V	Large Notebook					
	200 East Area		Room 2521						
£	Temperature Logs		PNL Sigma V	Small Notebook					

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TABLE 1. TABLE OF GEOPHYSICAL LOGS FOR SEMI-WORKS AAMS

AAMS	WELL	LOG RUN	DATE	TOP	BOTTOM	LOGGED BY	LOGGER	PROBE #	LOG LOCATION
	200 East Area		Room 2606						
	299-E13-1 to		Bottom drawer of file cabinet						
	299-E34-1								
√	Neutron Logs		PNL Sigma V	Small Notebook					
	200 East Area		Room 2606						
	299-E13-1 to		Bottom drawer of file cabinet						
	299-W26-3								
ε	Density Logs		PNL Sigma V	Large Notebook					
	200 East Area		Room 2606						
	299-E13-1 to		Bottom drawer of file cabinet						
	299-E34-6								
∞	Neutron Logs		PNL Sigma V	Large Notebook					
	200 East Area		Room 2606						
	299-E13-1 to		Bottom drawer of file cabinet						
	299-E34-6								
§	Gamma-Scintillation		PNL Sigma V	Medium Notebook					
	200 East Area		Room 2521						
	299-E13-1 to								
	299-E33-61								
¶	Density (w/out source)		PNL Sigma V	Large Notebook					
	200 East Area		Room 2521						
	299-E13-1 to								
	299-E33-75								

TABLE 2. SAMPLE DATA FOR SEMI-WORKS (C-PLANT) AGGREGATE AREA

Well	Log Type	Sieved	CaCO3	Molsture	Chemistry	Archived	Source/Comments
299-E24-7	D	Y	Y			Yes	
299-E24-8	D	Y	Y			Yes	
299-E27-1	D	Y	Y			Yes	
299-E27-5	D	YL	YL			Yes	
299-E27-11	G			Y	TOC, VOC, anions, alpha, beta	Yes	Goodwin and Bjornstad, 1990
299-E27-126	D				Field Rad	Yes	
299-E27-127	D	Y	Y		Field Rad	Yes	
299-E27-128	D				Field Rad	Yes	
299-E27-129	D				Field Rad	Yes	
299-E27-130	D				Field Rad	Yes	
299-E27-131	D				Field Rad	Yes	
299-E27-132	D				Field Rad	Yes	
299-E27-133	D				Field Rad	Yes	
299-E27-138	D,G				Field Rad		
299-E27-140	D,G				Field Rad	Yes	
299-E34-2	D,G	YL*			XRF, TC, IC, OC, CEC	Yes	PNL Files; Last et al. 1989
(See notes on following page)							

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TABLE 2. SAMPLE DATA FOR SEMI-WORKS (C-PLANT) AGGREGATE AREA**Notes**

G--Geologic Logs

D--Drillers Logs

(Logs are contained in PNL files unless otherwise noted)

Y--Data Available

YL--Data are available but is limited (gaps of 10ft or more)

*--Silt/clay ratio data available in PNL files

Field Rad.--Data are available in driller's logs for field measurements of radiation (GM counter).

Abbreviations for chemical constituents:

TC = total carbon

TOC = total organic carbon

VOC = volatile organic compounds

OC = organic Carbon

IC = inorganic Carbon

CEC = cation exchange capacity

XRF = x-ray fluorescence

All sieve/CaCO₃ data are from the ROCSAN data base unless another source is indicated

Archive lithologic samples are stored in the 2101-M Sample Library

(Reference citations are shown on page 7)

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REFERENCES FOR GEOLOGIC INFORMATION

Goodwin, S. M. and B. N. Bjornstad. 1990. 200-East and 200-West Areas Low-Level Burial Grounds Borehole Summary Report. WHC-MR-0204, prepared by Pacific Northwest Laboratory for Westinghouse Hanford Company, Richland, Washington.

Last, G. V., B. N. Bjornstad, M. P. Bergeron, D. W. Wallace, D. R. Newcomer, J. A. Schramke, M. A. Chamness, C. S. Cline, S. P. Airhart, and J. S. Wilbur. 1989. Hydrogeology of the 200 Areas Low-Level Burial Grounds - An Interim Report. PNL-6820, Pacific Northwest Laboratory, Richland, Washington.

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TABLE 3. SEMI-WORKS (C-PLANT) WELL CONSTRUCTION

Well	Drill Depth	Completed Depth	Screen Top	Screen Bottom	Date Started	Date Completed	Casing Elevation	Hanford Coordinates North	Hanford Coordinates West
299-E24-7	450	415	305	350	24-Oct-56	30-Nov-56	716.01	39630.52	50813
299-E24-8	382	323	280	372	30-Apr-57	31-May-57	688.81	41962	50346
299-E27-1	332	322	262	331	11-Mar-48	30-Apr-48	681.05	42833	50440
299-E27-5	335	333	262	333	29-Aug-62	31-Oct-62	685.01	42075	49881
299-E27-11	264	251	230	251	27-Jun-89	18-Oct-89	643.29	44557.6	49990.3
299-E27-126	35	Abandoned			11-Dec-80	15-Dec-80		42182	50687
299-E27-127	35	Abandoned			15-Dec-80	16-Dec-80		42132	50687
299-E27-128	35	Abandoned			17-Dec-80	17-Dec-80		42181	50687
299-E27-129	35	Abandoned			18-Dec-80	19-Dec-80		42092	50727
299-E27-130	35	Abandoned			19-Dec-80	22-Dec-80		42132	50724
299-E27-131	35	Abandoned			23-Dec-80	26-Dec-80		42086	50767
299-E27-132	35	Abandoned			29-Dec-80	30-Dec-80		42177	50767
299-E27-133	50	Abandoned			14-Sep-82	17-Sep-82		42080	50220
299-E27-138	25	Abandoned			27-Jan-84	27-Jan-84		42810	50100
299-E27-140	40	Abandoned			20-Jan-84	6-Feb-84		42270	50550
299-E34-2	241.5	240	219.9	240.25	18-Jul-87	30-Sep-87	630.8	45076	50048

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APPENDIX

AS-BUILT DIAGRAMS

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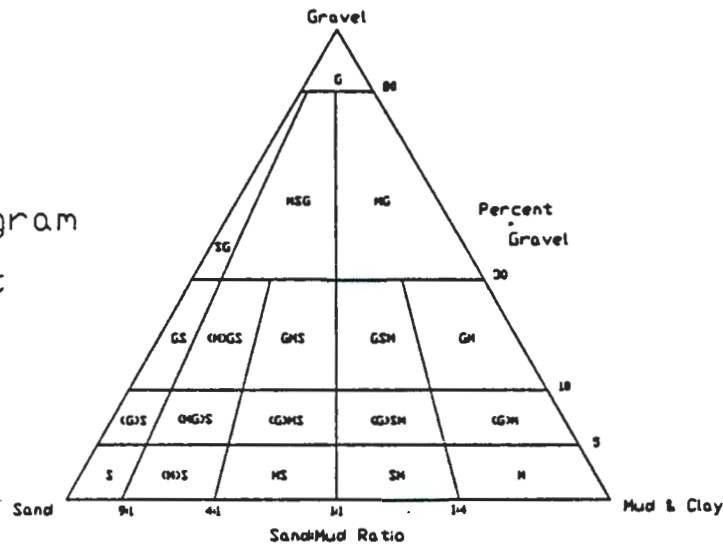
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Lithology Classification Pattern Key

	M	Mud		G	Gravel		GS	Gravelly Sand
	SM	Sandy Mud		SG	Sandy Gravel		(G)S	Slightly Gravelly Sand
	GM	Gravelly Mud		MG	Muddy Gravel		GMS	Gravelly Muddy Sand
	(G)M	Slightly Gravelly Mud		MSG	Muddy Sandy Gravel		(G)MS	Slightly Gravelly Muddy Sand
	GSM	Gravelly Sandy Mud		S	Sand		(M)GS	Slightly Muddy Gravelly Sand
	(G)SM	Slightly Gravelly Sandy Mud		MS	Muddy Sand		(GM)S	Slightly Gravelly Slightly Muddy Sand
	MISSING	Data Unknown		(M)S	Slightly Muddy Sand			

Ternary Diagram
for Sediment
Code Names



* Sampling Method Used

- ROTARY
- ▣ AIR ROTARY
- MUD ROTARY
- HARD TOOL
- △ BACK HOE
- ◇ AUGER
- × OTHER METHOD
- DRIVE BARREL
- SPLIT SPOON
- ▲ AIR PERCUSSION

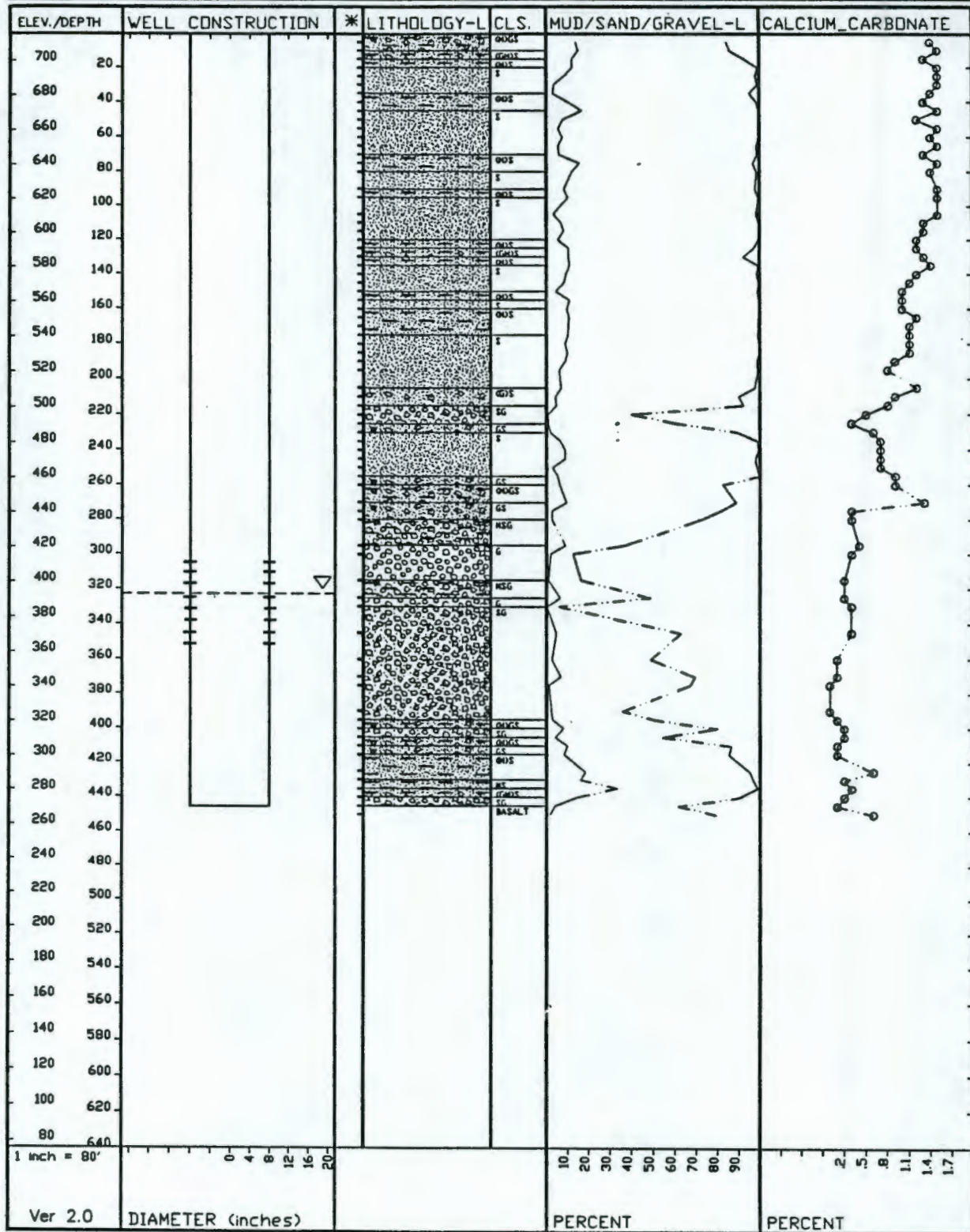
Sand/Mud/Gravel Column



Well Construction Pattern Key

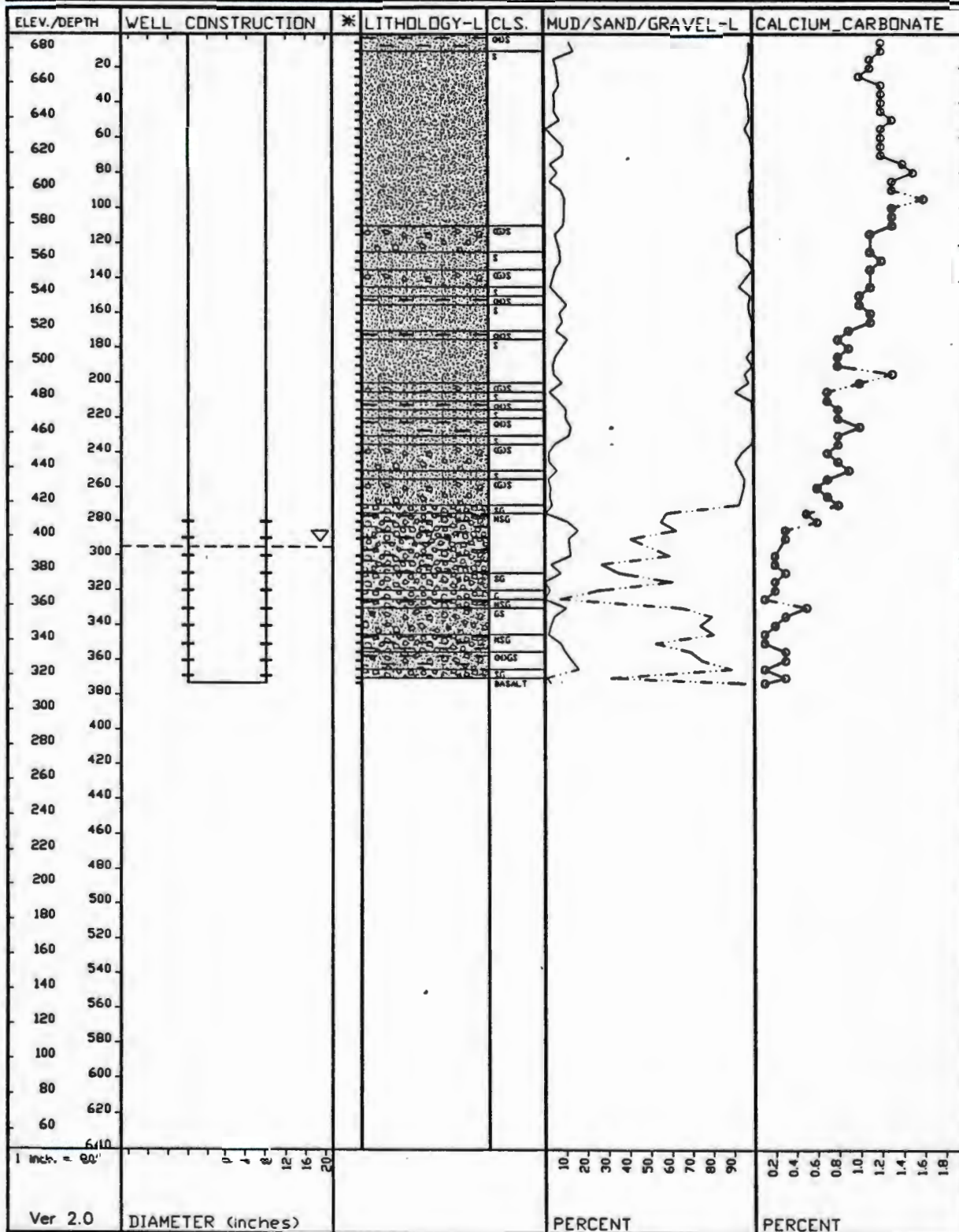
	CEMENT GROUT		BENTONITE PELLETS		VOLCLAY GROUT
	GRANULAR BENTONITE		CHEMICAL GROUT		OTHER FILL TYPE
	GRAVEL PACK		SAND PACK		SCREEN
	BACKFILL		CONCRETE	- P	PUMP LOCATION
			BENTONITE SLURRY	▽	WATER LEVEL

WELL NAME	299-E24-7	COMPLETION DATE	11/29/56
CASING ELEV.	716.01 Feet	INITIAL	
WELL DEPTH	450.00 Feet	DEPTH TO WATER	323 ft
DRILL DEPTH	450.00 Feet		
COORDINATES	N-S 39630.52 P		
	E-W -50813 P		
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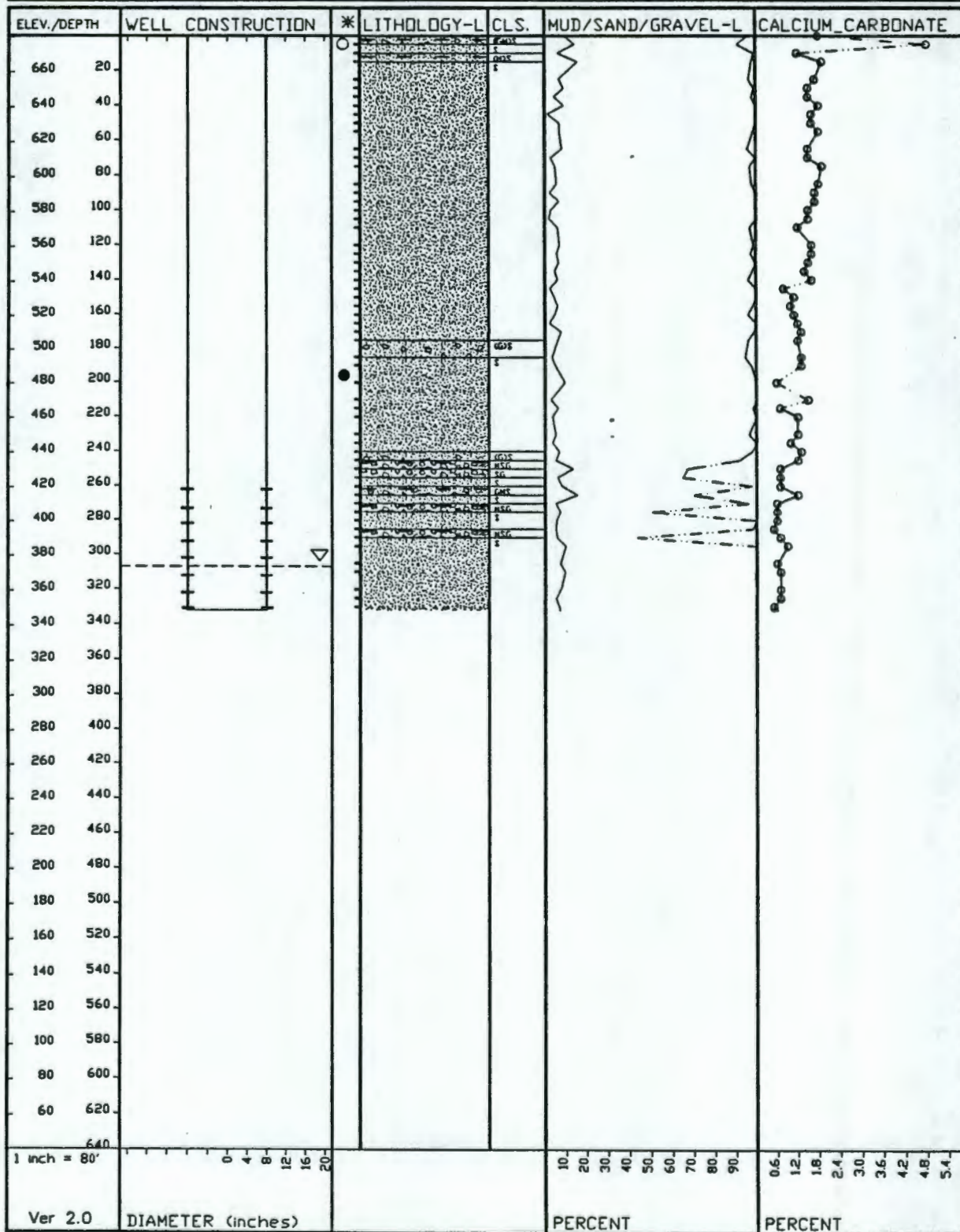
WELL NAME	299-E24-8	COMPLETION DATE	05/23/57
CASING ELEV.	688.81 Feet	INITIAL	
WELL DEPTH	382.00 Feet	DEPTH TO WATER	295 ft
DRILL DEPTH	382.00 Feet		
COORDINATES	N-S 41962 P		
	E-W -50346 P		

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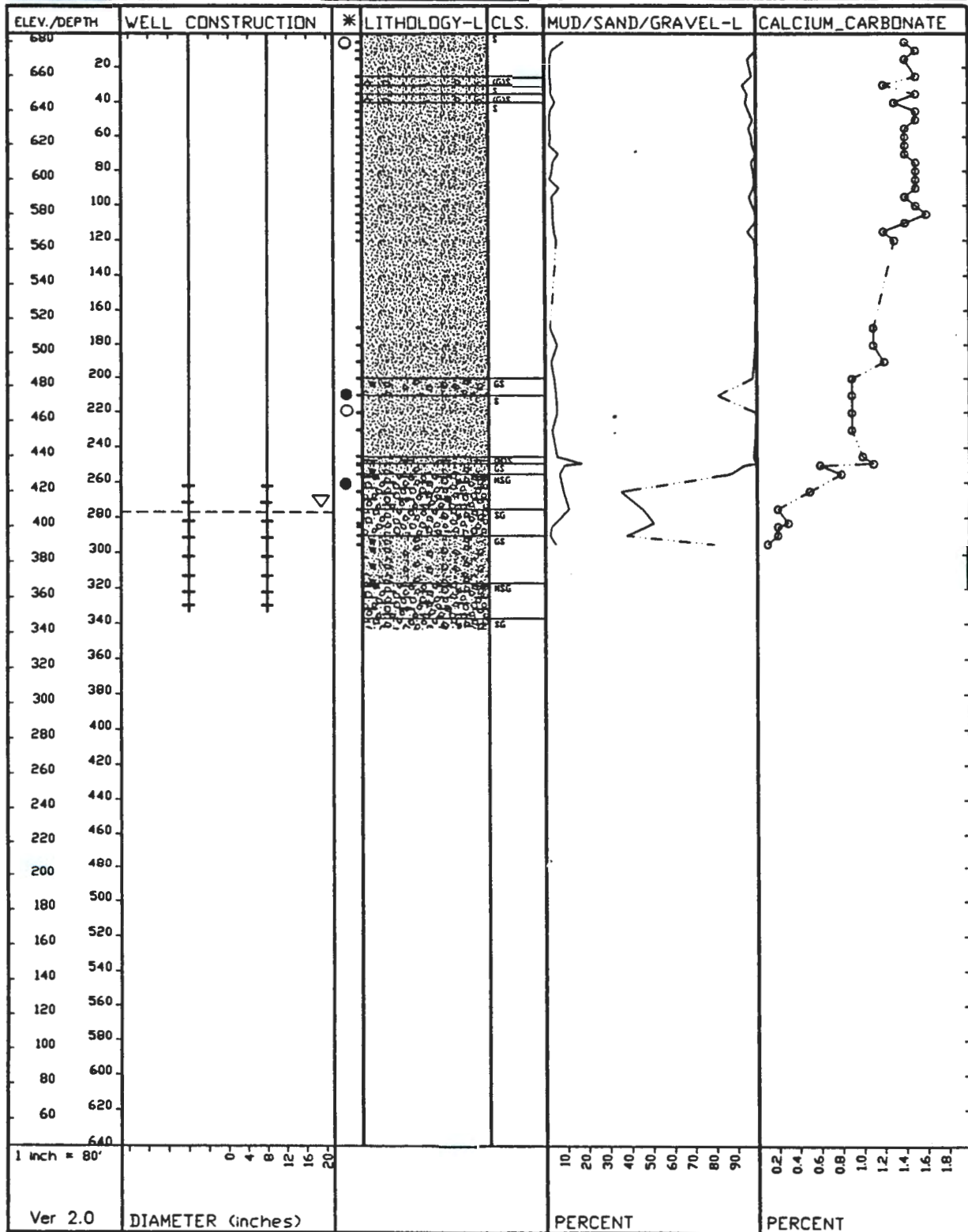


WELL NAME	299-E27-1	COMPLETION DATE	04/06/48
CASING ELEV.	681.05 Feet	INITIAL	
WELL DEPTH	332.00 Feet	DEPTH TO WATER	307 ft
DRILL DEPTH	332.00 Feet		
COORDINATES	N-S 42833 P		
	E-W -50440 P		

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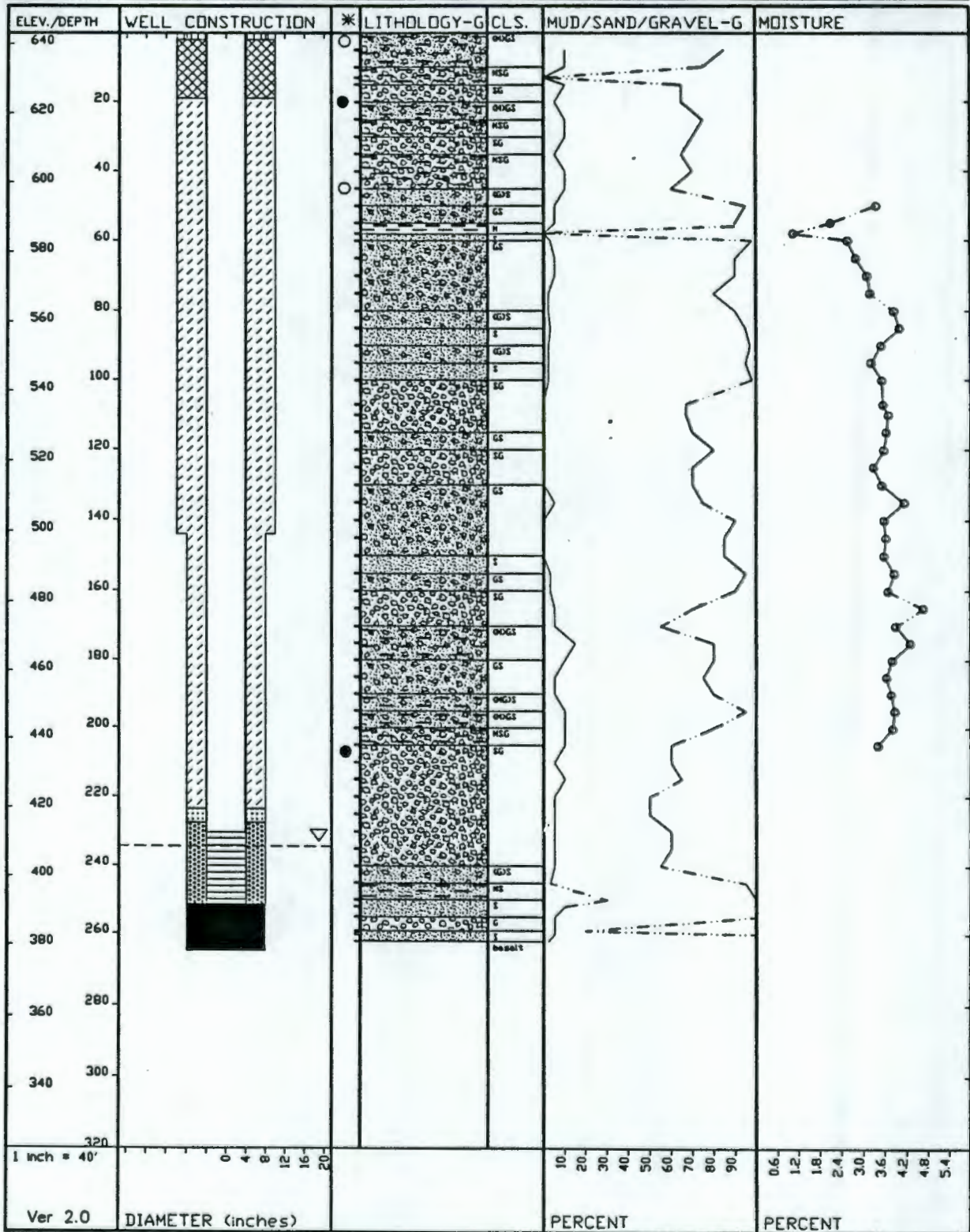


WELL NAME	299-E27-5	COMPLETION DATE	09/27/62
CASING ELEV.	685.01 Feet	INITIAL	
WELL DEPTH	333.00 Feet	DEPTH TO WATER	277.0 ft
DRILL DEPTH	335.00 Feet		
COORDINATES	N-S	42075 P	
	E-W	=49881 P	
			PAGE 1 of 1



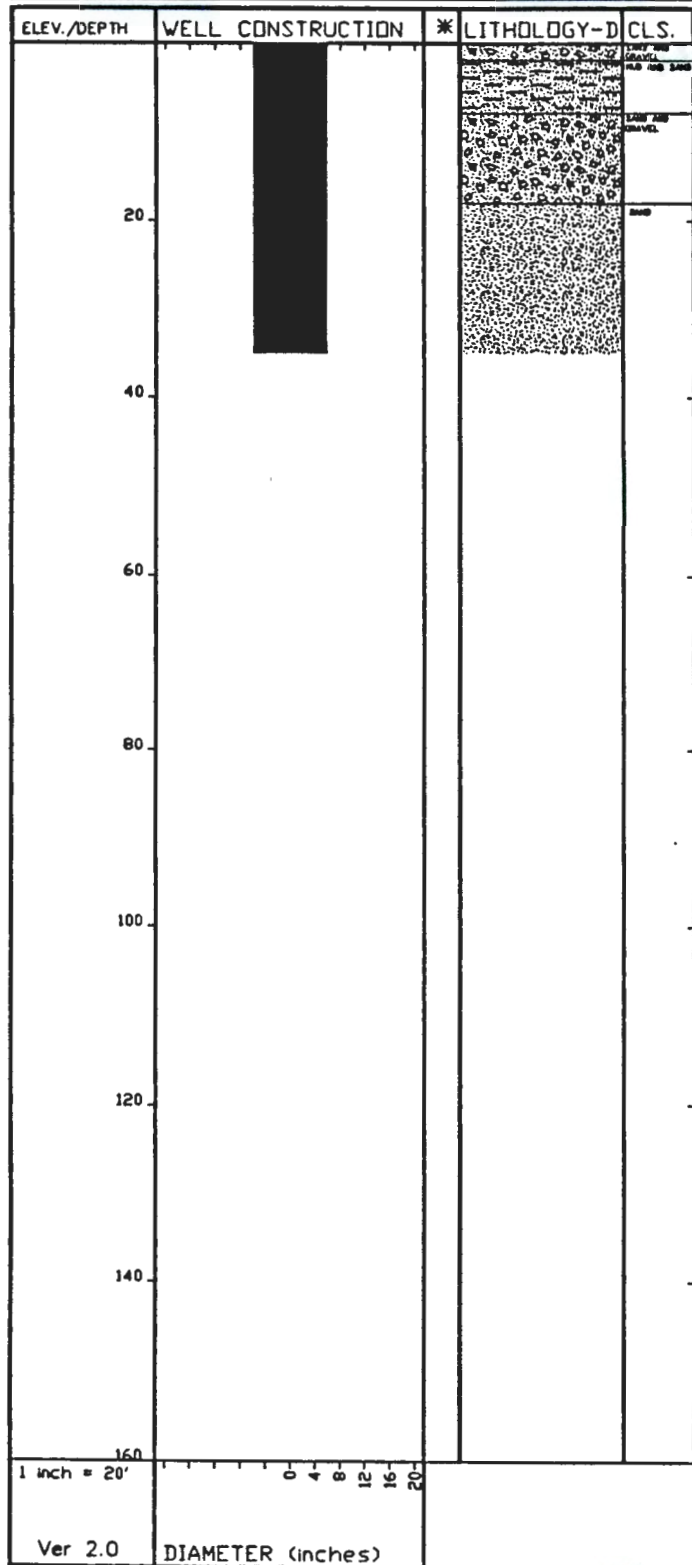
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WELL NAME	299-E27-11	COMPLETION DATE	10/18/89
CASING ELEV.	643.29 Feet	INITIAL	
WELL DEPTH	251.38 Feet	DEPTH TO WATER	234.4 ft
DRILL DEPTH	264.70 Feet		
COORDINATES	N-S 44557.6 P		
	E-W -49990.3 P		
		PAGE	1 of 1



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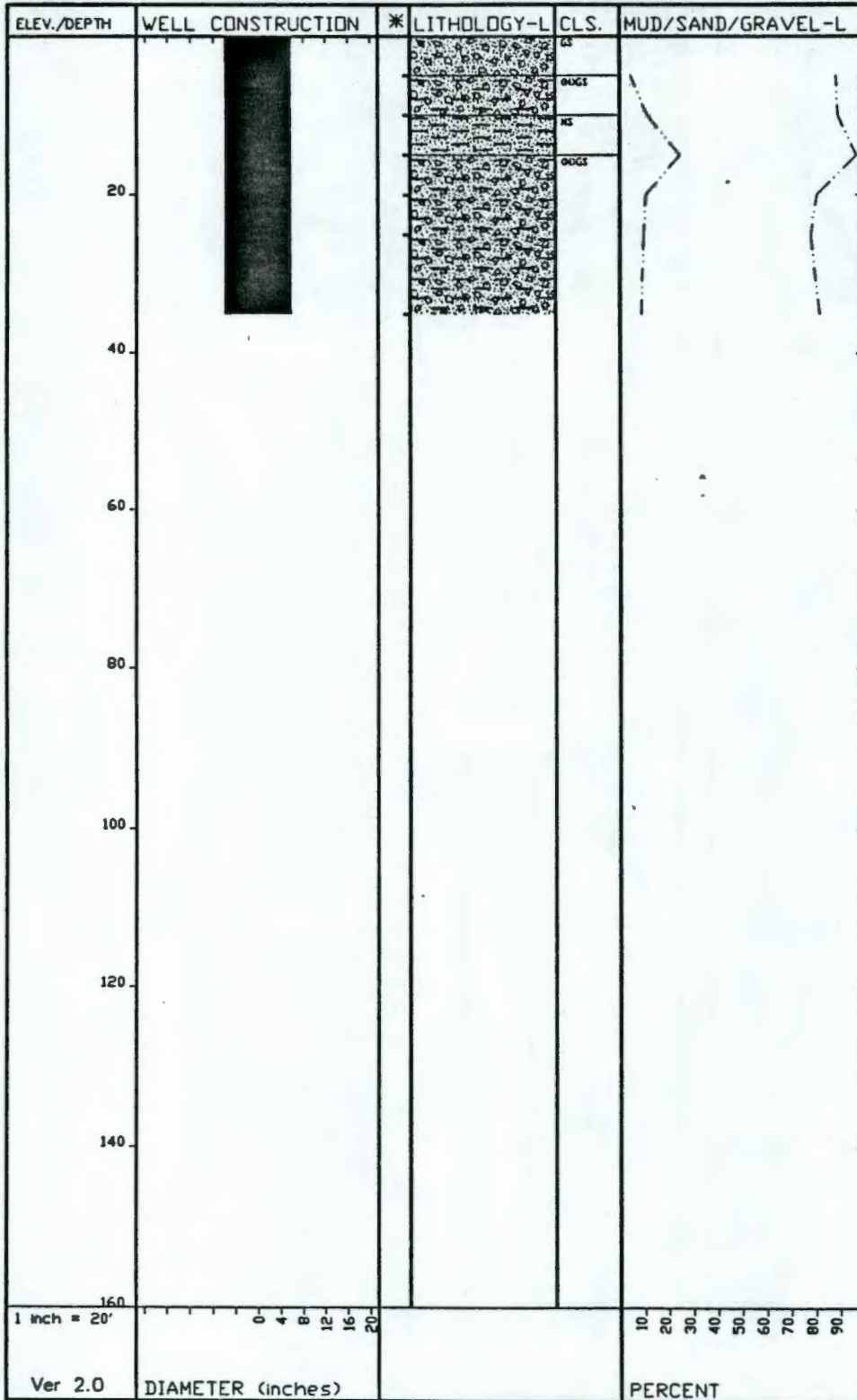
WELL NAME	299-E27-126	COMPLETION DATE	12/15/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S 42182 P		
	E-W -50687 P		
			PAGE 1 of 1



9413203.0114

WELL NAME	299-E27-127	COMPLETION DATE	12/16/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S 42132 P		
	E-W -50687 P		

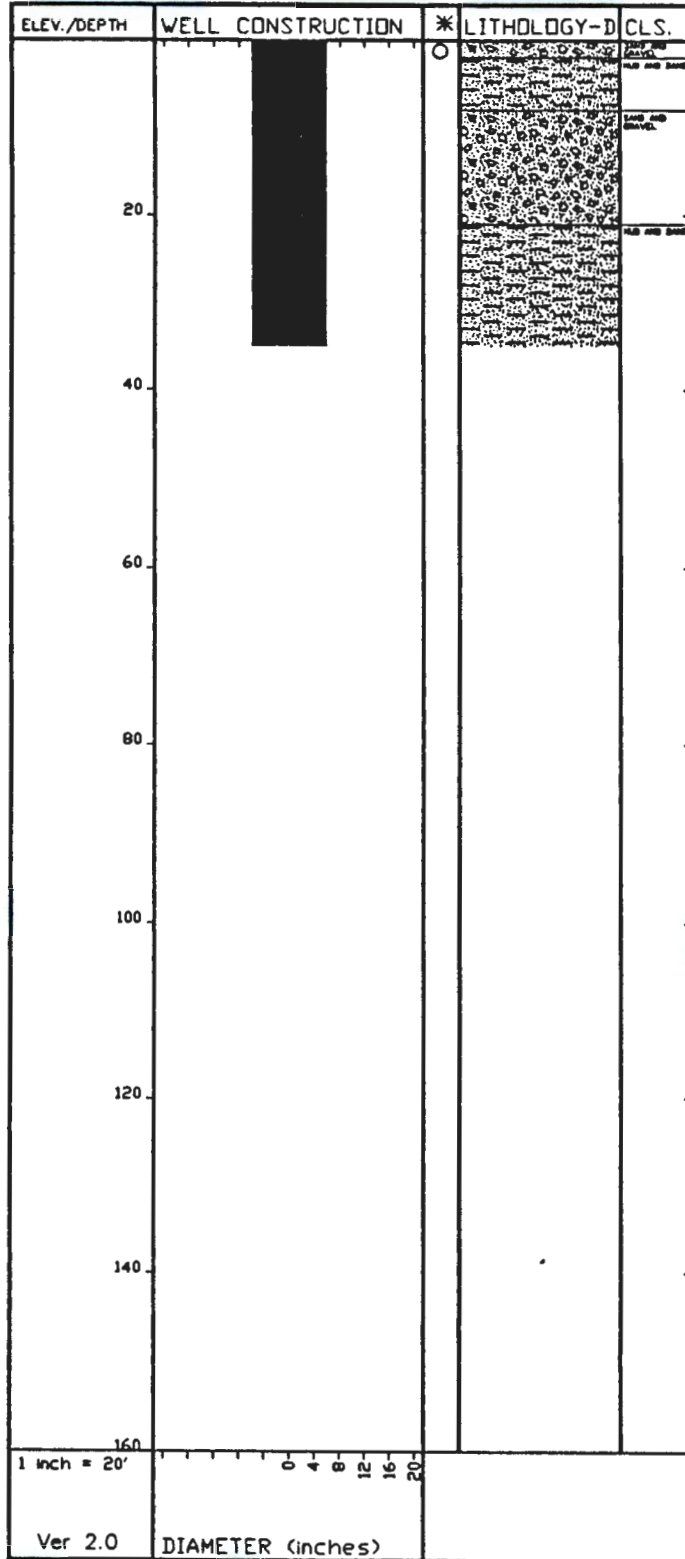
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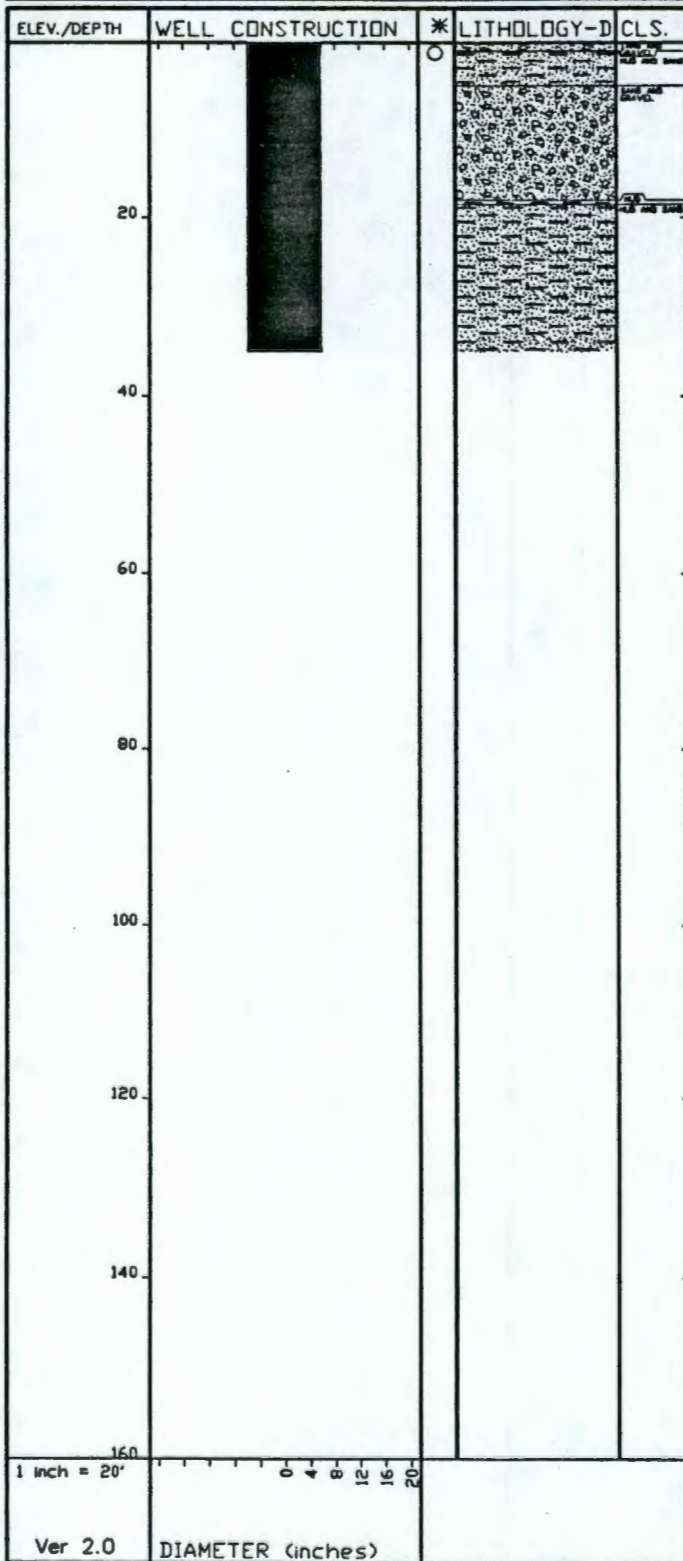
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WELL NAME	299-E27-128	COMPLETION DATE	12/17/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S 42181 P		
	E-W -50687 P		
			PAGE 1 of 1



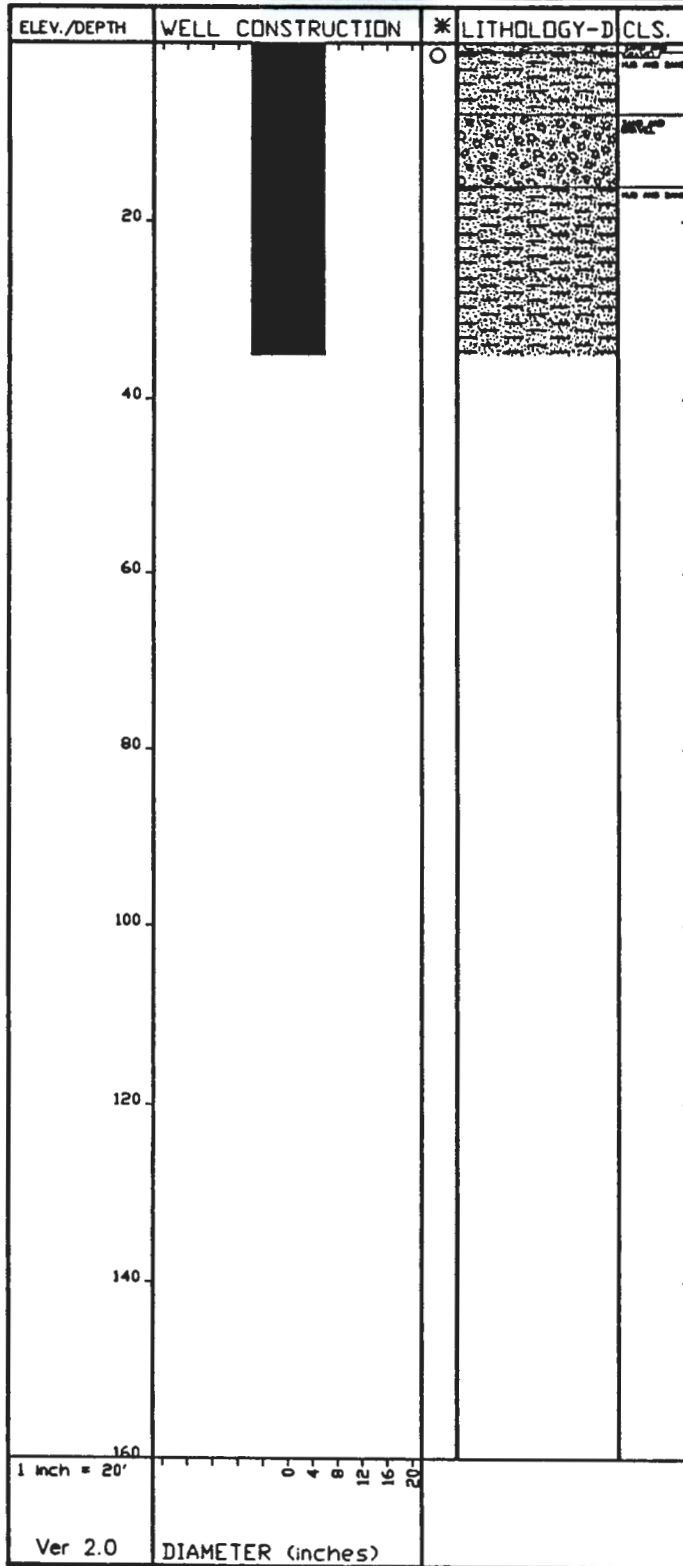
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WELL NAME	299-E27-129	COMPLETION DATE	12/19/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S 42092 P		
	E-W -50727 P		
			PAGE 1 of 1



9413203.0117

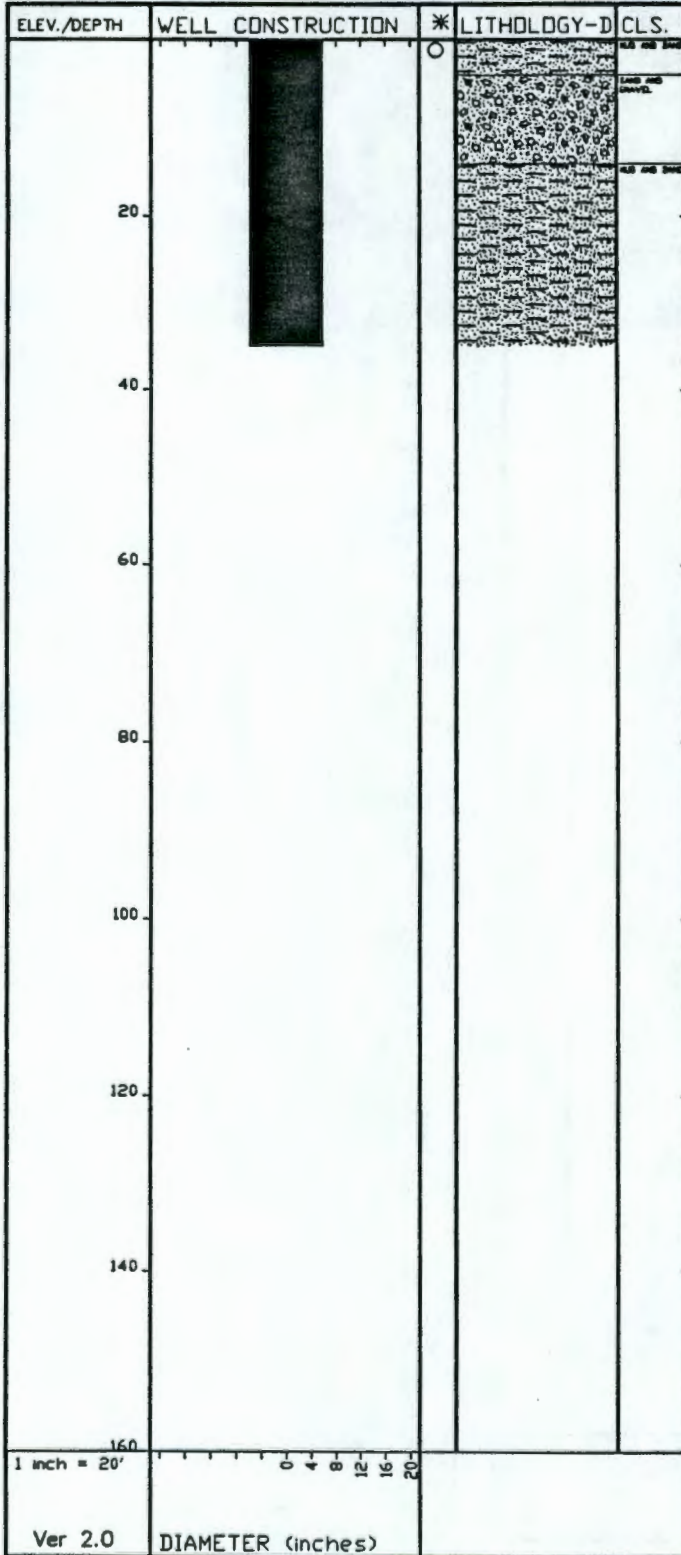
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CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S 42132 P		
	E-W -50724 P		
			PAGE 1 of 1



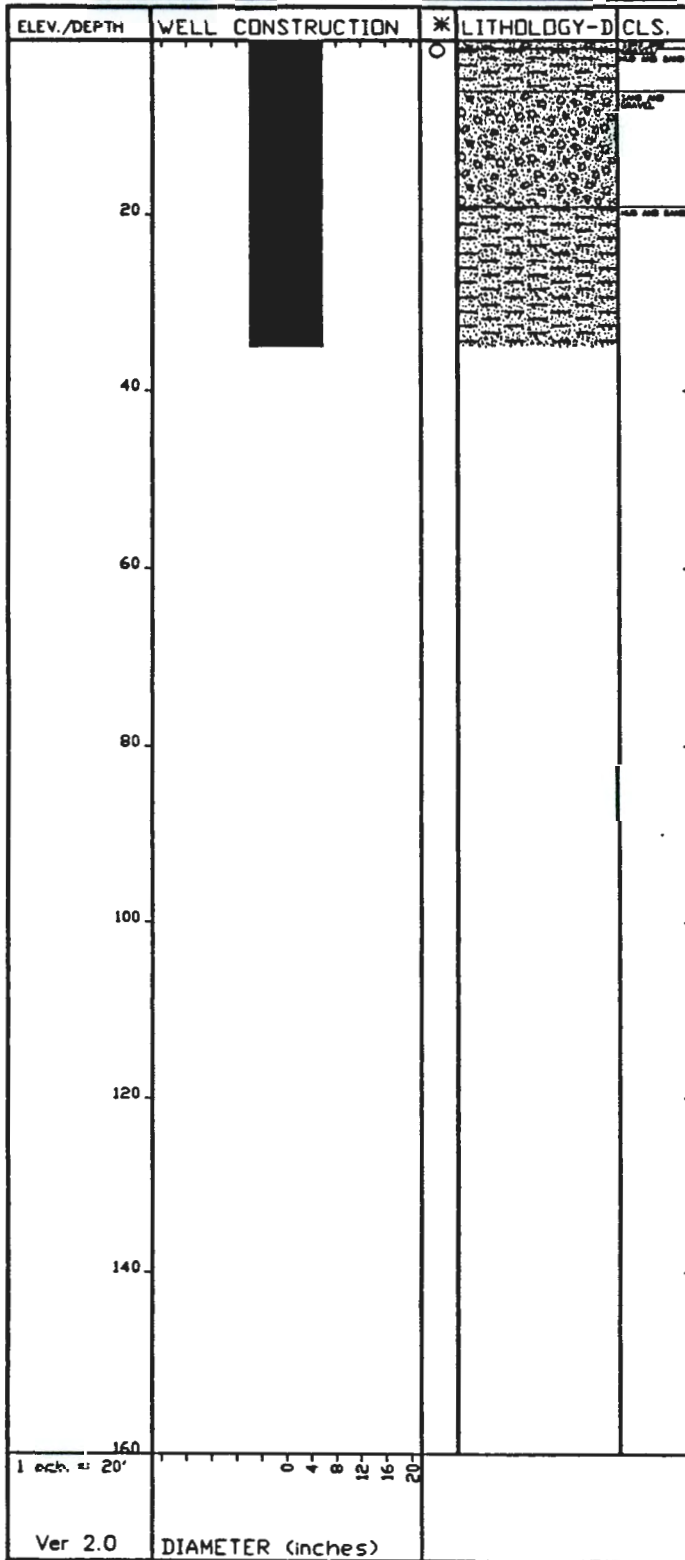
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WELL NAME	299-E27-131	COMPLETION DATE	12/26/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S	42086 P	
	E-W	-50767 P	

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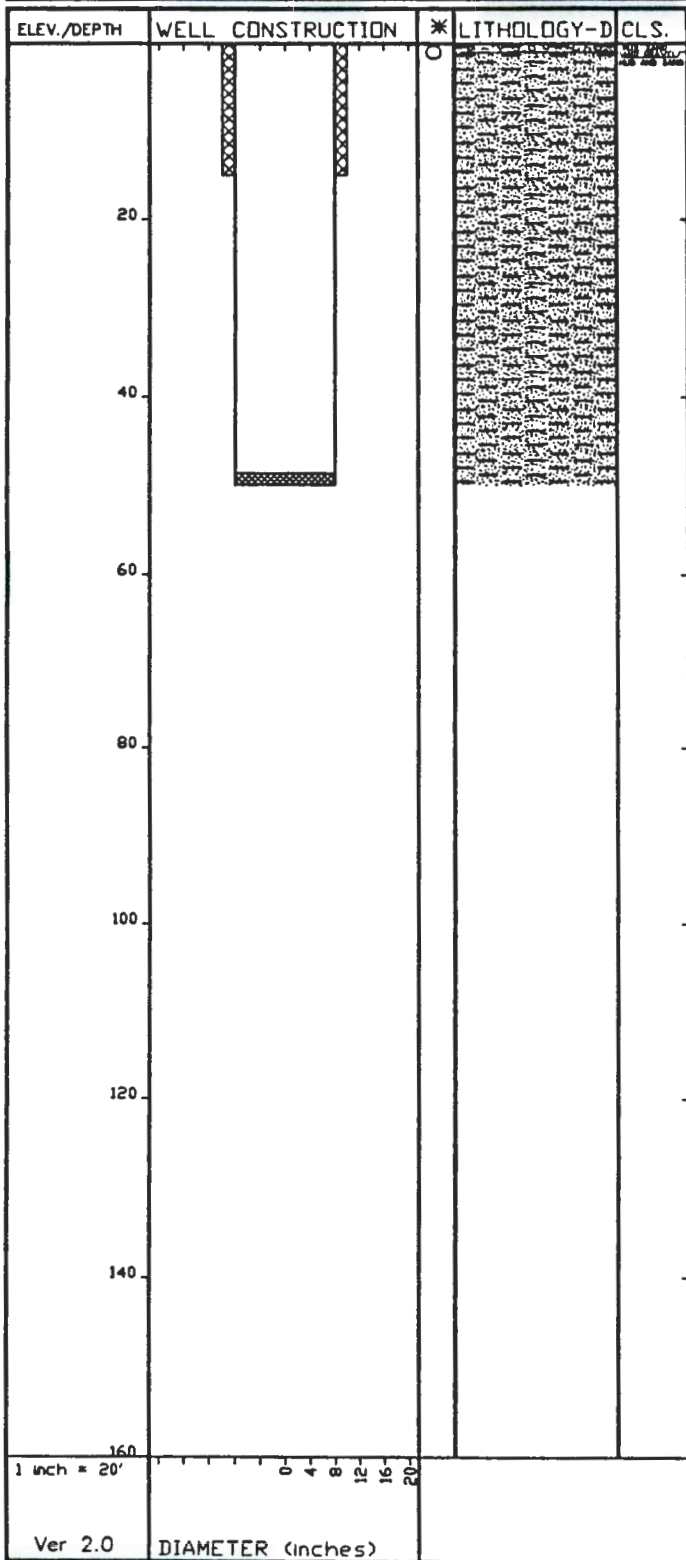
WELL NAME	299-E27-132	COMPLETION DATE	12/30/80
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	35.00 Feet		
COORDINATES	N-S	42177 P	
	E-W	=50767 P	
			PAGE 1 of 1



9413203.0120

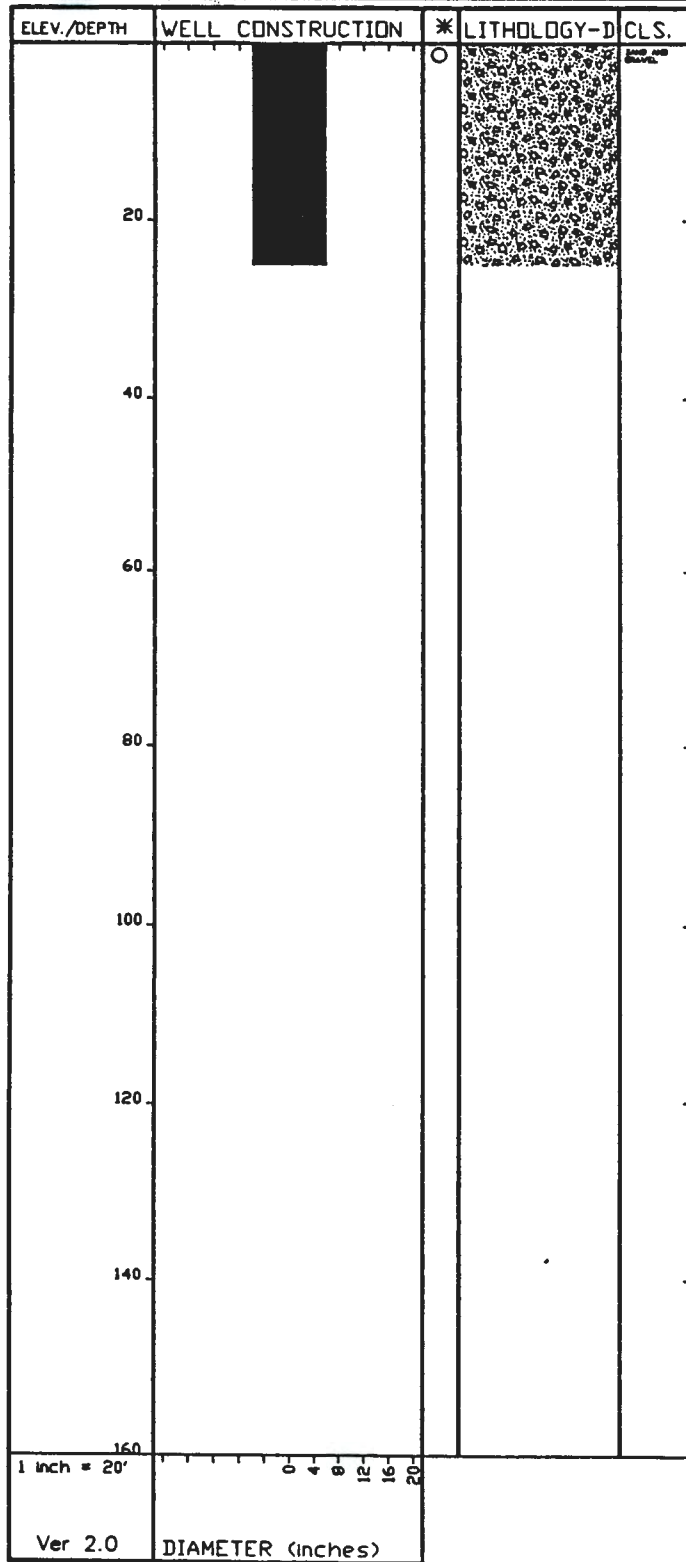
WELL NAME	299-E27-133	COMPLETION DATE	09/17/82
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	50.00 Feet	DEPTH TO WATER	N/A
DRILL DEPTH	50.00 Feet		
COORDINATES	N-S 42080 P		
	E-W -50220 P		

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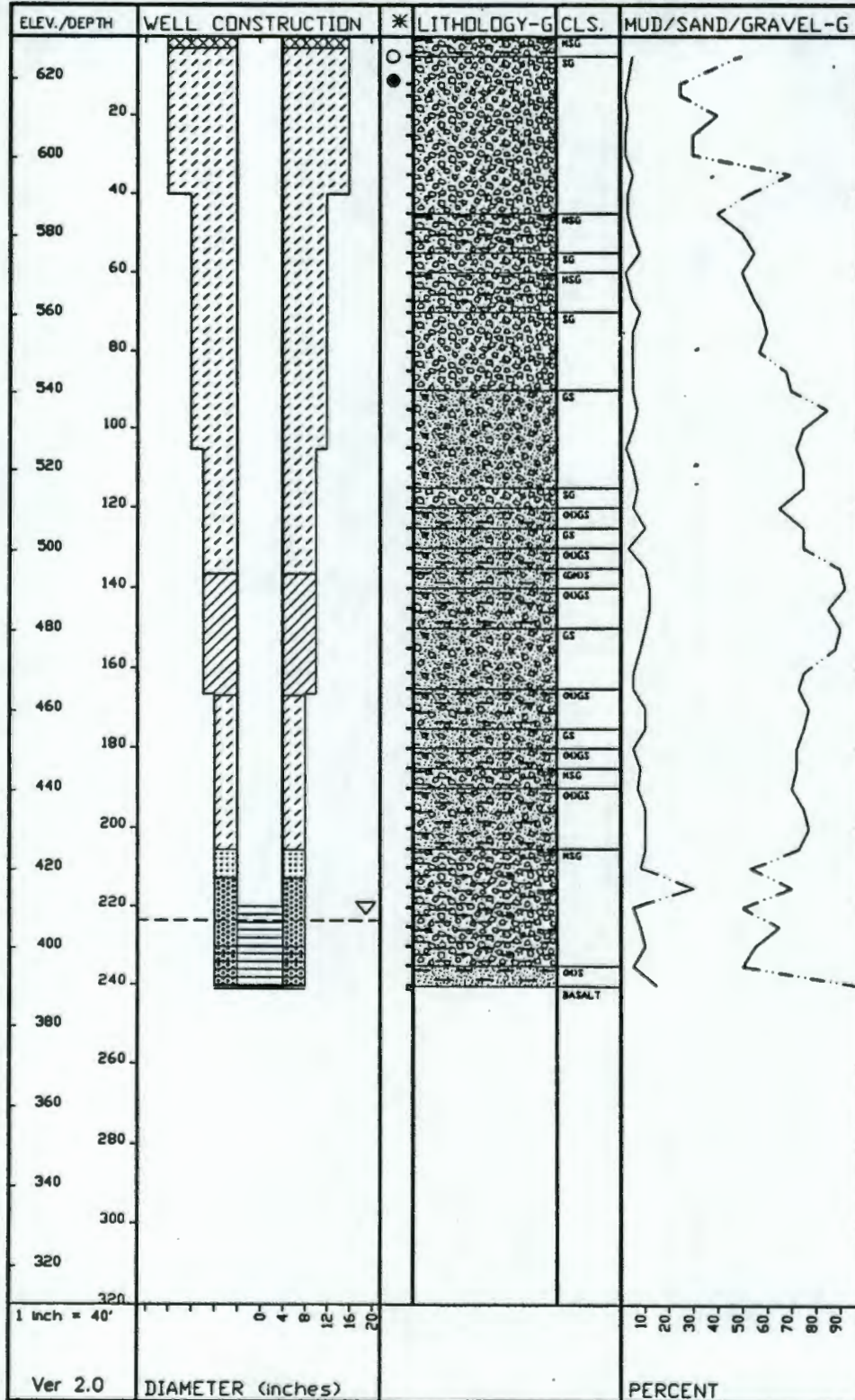
WELL NAME	299-E27-138	COMPLETION DATE	01/27/84
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	25.00 Feet		
COORDINATES	N-S 42810 P		
	E-W -50100 P		
			PAGE 1 of 1



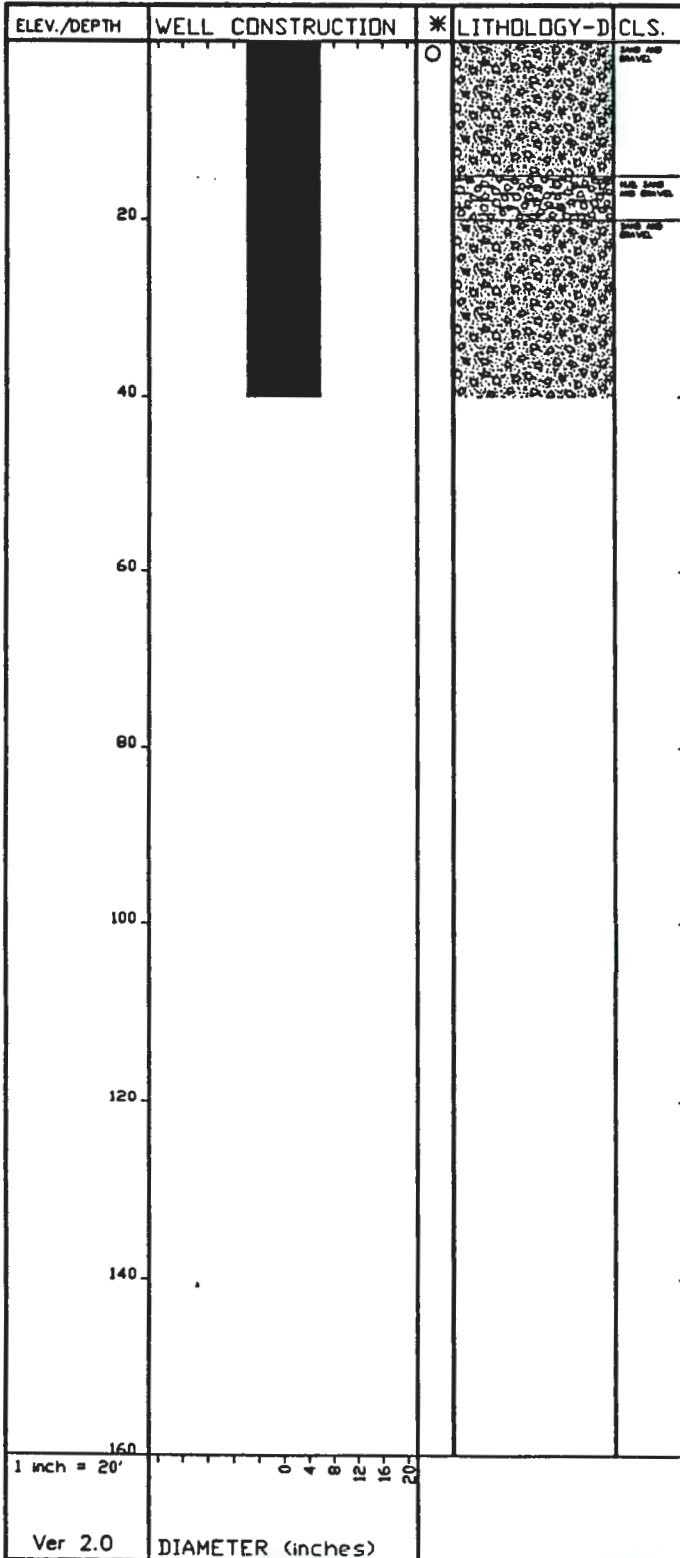
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WELL NAME	299-E34-2	COMPLETION DATE	09/30/87
CASING ELEV.	630.80 Feet	INITIAL	
WELL DEPTH	239.92 Feet	DEPTH TO WATER	223.5 ft
DRILL DEPTH	241.50 Feet		
COORDINATES	N-S 45076 P		
	E-W -50048 P		

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WELL NAME	299-E27-140	COMPLETION DATE	02/06/84
CASING ELEV.	Missing	INITIAL	
WELL DEPTH	ABANDONED	DEPTH TO WATER	N/A
DRILL DEPTH	40.00 Feet		
COORDINATES	N-S 42270 P		
	E-W -50550 P		
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			If Previously Cleared, List Document No. MAY 27 1992		
			Date Clearance Required 5/28/92		
			OFFICE REC'D		
Title Semiworks (C-Plant) Aggregate Area Management Study Geologic Data Package					
Lead Author Name, Payroll Number, Phone, Mailstop (MSIN) MA Chamness/3C490/376-1964/K6-96			Other Author(s) Name(s) SM Goodwin, SS.Teel		
Project or Program Title Data Packages			Lead Org. Code D7D81	Editor Name (if edited), Phone	Client WHC
If 1830, Project No. and B&R No. 18651 820201000			If Related Services, TD No. (and FIN No. if NRC)		If Non-1830, Contract No.

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