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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 156730

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
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15. DATA TRANSMITTED

(A) Item No.	(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
1	WHC-SD-EN-DP-027	N/A	0	200 North 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

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1	1	Cog.Eng. S. J. Trent	SJ Trent	8/4/92	H4-56						
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18.	19.	20.	21. DOE APPROVAL (if required)
SJ Trent S. J. Trent Signature of EDT Originator — Date 8-5-92	Authorized Representative for Receiving Organization — Date	RACarlson R. A. Carlson Cognizant/Project Engineer's Manager — Date 8/4/92	Ltr. No. [] Approved [] Approved w/comments [] Disapproved w/comments

BD-7400-172-2 (07/89) (EF) GEF097

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SUPPORTING DOCUMENT

1. Total Pages 20

2. Title

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

3. Number

WHC-SD-EN-DP-027

4. Rev No.

0

5. Key Words

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APPROVED FOR PUBLIC RELEASE

V. Berkland 8/5/92

6. Author

Name: S. J. Trent

Signature 8/4/92

Organization/Charge Code 81232/PH22A

7. Abstract

WHC, 1992, *200 North Geologic and Geophysics Data Package for the 200 Aggregate Area Management Study*, WHC-SD-EN-DP-027, Rev. 0, prepared by M. A. Chamness, D. L. McAlister, J. P. McDonald, A. W. Pearson, and R. E. Lewis, Pacific Northwest Laboratory for Westinghouse Hanford Company, Richland, Washington.

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9. Impact Level 4

10. RELEASE STAMP

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DATE AUG 05 1992
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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 200 North 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-E32-2
299-E33-30
699-36-61B
699-40-62
699-44-64
699-47-60
699-48-71
699-51-63
699-55-55
699-55-57
699-55-60A
699-55-60B

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TABLE 1. GEOPHYSICAL LOGS FOR 200N AAMS

AAMS	WELL	LOG RUN	DATE	TOP	BOTTOM	LOGGED BY	LOGGER	PROBE #	LOG LOCATION
200N	699-55-60A	NOT LOGGED							
200N	699-55-60B	TEMP.	1/23/74	170	286	PNL			LOG MISSING
200N	699-55-60B	TEMP.	12/2/80	173	273	PNL	V.L. McGHAN		à
200N	699-55-60B	NAT. GAMMA	12/2/80	4	284	PNL	V.L. McGHAN		ß
200N	699-55-60B	NEUTRON	12/2/80	7	284	PNL	V.L. McGHAN		ß
200N	699-55-60B	DENSITY	12/2/80	4	284	PNL	V.L. McGHAN		∂
	à	Temperature Logs		Large Notebook					
		600 Area		PNL					
		699-50-28B to		Sigma V					
		699-97-51		Room 2606					
	ß	Filed Logs		PNL					
				Sigma V					
				Room 2606					
	∂	600 Area (Density)		Large Notebook					
		600-40-1 to		PNL					
		699-97-51A		Sigma V					
				Room 2606					

TABLE 2. SAMPLE DATA FOR 200 NORTH AGGREGATE AREA

Well	Log Type	Sieved	CaCO3	Moisture	Chemistry	Archived	Source/Comments
299-E32-2	D,G	Y		Y	TOC, VOC, A, B, AN	Y	Barton et al. 1990 / AQUIFER TEST
299-E33-30	D,G	Y		Y	TOC, VOC, A, B, AN	Y	Barton et al. 1990 / AQUIFER TEST
699-36-61B	D	Y	Y			Y	
699-40-62	D	YL	YL	N		Y	
699-44-64	D	Y	Y			Y	
699-47-60	D	Y	Y			Y	
699-48-71	D	Y	Y			Y	
699-51-63	D	Y	Y			Y	
699-55-55	G	YL	YL	Y		Y	
699-55-57	D	Y	Y			Y	
699-55-60A	D						AQUIFER TEST
699-55-60B	D						AQUIFER TEST

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)

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

VOC = volatile organic compounds

TOC = total ontile organic compounds

A = gross alphtotal organic carbon

B = beta

AN = anions

(Reference citations are shown on page 5)

TABLE 3. 200 NORTH AGGREGATE AREA WELL CONSTRUCTION DATA

Well	Drill Depth	Completed Depth	Screen Top	Screen Bottom	Date Started	Date Completed	Casing Elevation	Hanford Coordinates North	Hanford Coordinates West
299-E32-2	289.06	277.75	257.75	277.75	8/14/87	9/30/87	670.06	45904	56565
299-E33-30	280.1	275	255	275	8/29/87	9/30/87	663.7	45903	55660
699-36-61B	568	380	330	400	11/30/59	2/4/60	749.26	36463	60685
699-40-62	384	369	335	374	12/14/48	1/17/49	747.78	40300	61500
699-44-64	452	357	316	442	10/22/59	1/27/60	725.6	44053	63751
699-47-60	287	273	235	277	6/23/48	7/20/48	649.84	47137	60286
699-48-71	305	285	239	302	8/4/56	9/26/56	688.15	47838	70660
699-51-63	184.5	183	157	183	9/27/56	11/6/56	571.84	51449	63060
699-55-55	312	169.58	148.35	169.3	9/28/90	12/3/91	563.32	54669	54641
699-55-57	180	180	139	169	5/15/75	5/16/75	566.66	54608	57208
699-55-60A	233	231	190	230	8/16/43	12/15/43	572.89	55100	60100
699-55-60B	288	288	230	285	6/8/44	7/20/44	573.68	55425	60140

REFERENCES FOR GEOLOGIC INFORMATION

Barton, K. R. O., L. A. Doremus, T. J. Gilmore, G. V. Last, and J. V. Borghese. 1990. Borehole Completion Data Package for Low-Level Burial Grounds - 1990. WHC-MR-0205, prepared by Pacific Northwest Laboratory for Westinghouse Hanford Company, Richland, Washington.

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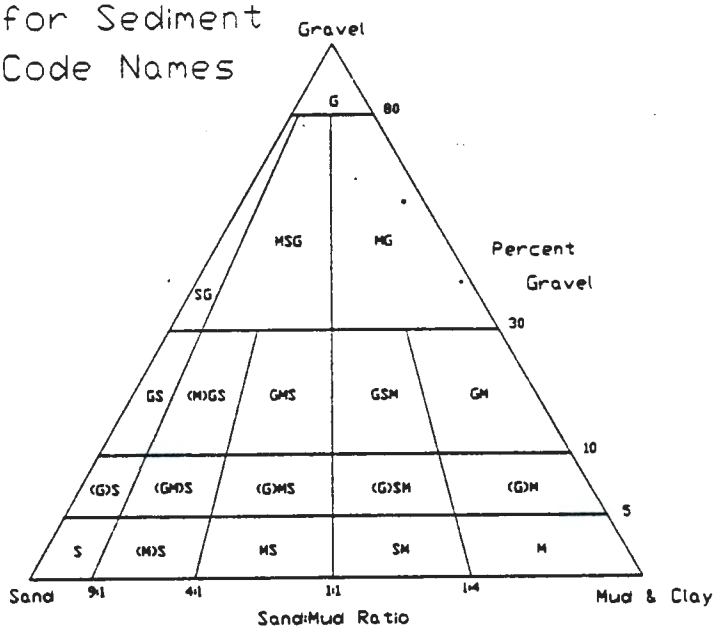
APPENDIX

AS-BUILT DIAGRAMS

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	B	Basalt
				CA	Caliche

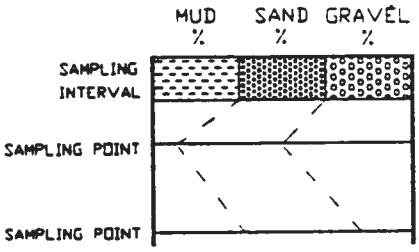
Ternary Diagram for Sediment Code Names



✳ Sampling Method Column

□	R	Rotary	●	H	Hard Tool
⊠	AR	Air Rotary	○	D	Drive Barrel
■	MR	Mud Rotary	●	S	Split Spoon
△	B	Back Hoe	◇	A	Auger
▲	AP	Air Percussion	×		Other Method

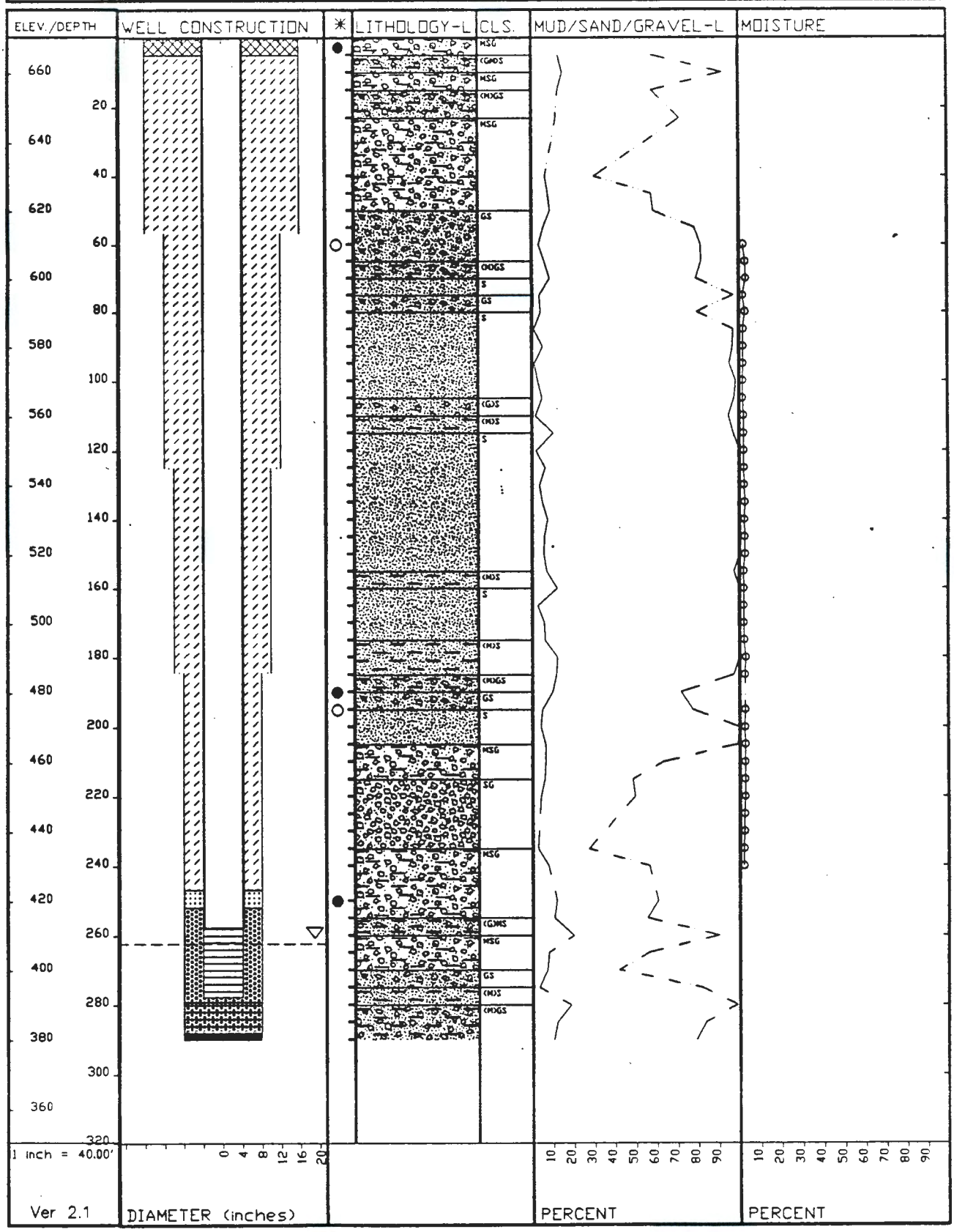
Mud/Sand/Gravel Column



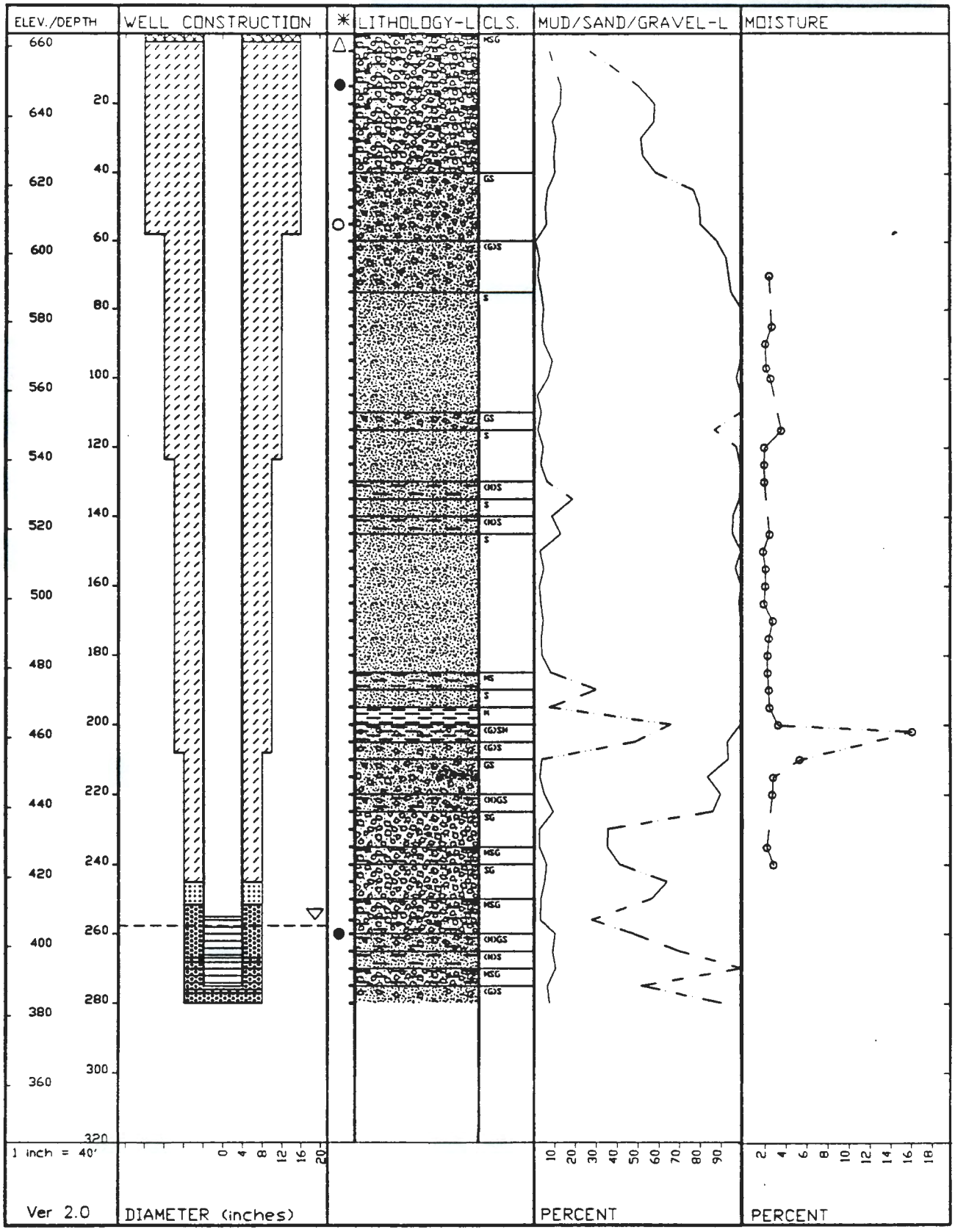
Well Construction Pattern Key

CG	Cement Grout	BP	Bentonite Pellets		Perforated Permanent Casing
GB	Granular Bentonite	CE	Chemical Grout	– P	Pump Location
GP	Gravel Pack	SP	Sand Pack	DATE	Most Recent Water Level
BF	Backfill	CC	Concrete		Initial Water Level
BE	Bentonite Slurry	VG	Volclay Grout		
	Other Fill Type		Screen		

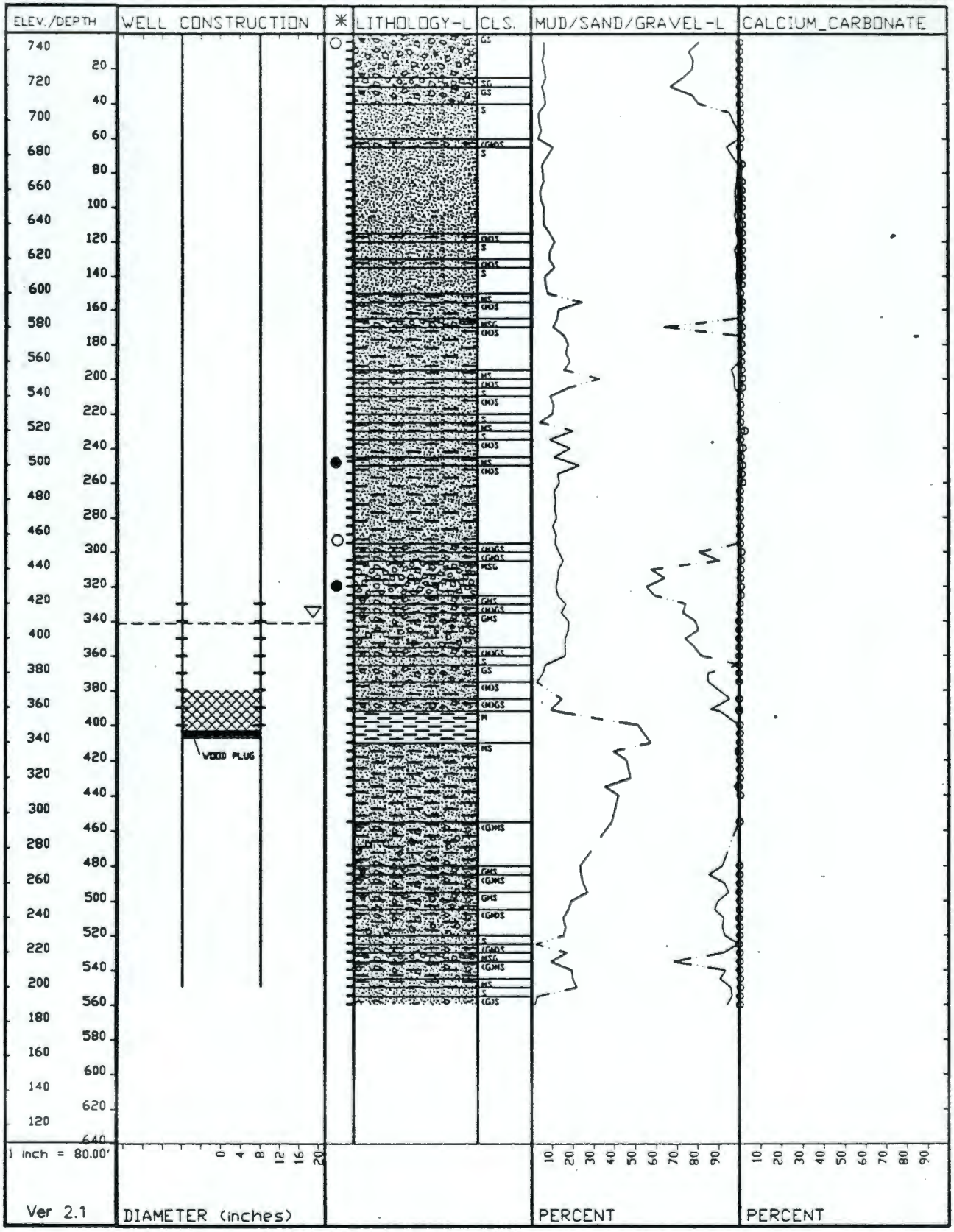
WELL NAME	299-E32-2	COMPLETION DATE	09/30/87
CASING ELEV.	670.06 Feet	INITIAL DEPTH TO WATER	262.33 ft
WELL DEPTH	277.75 Feet		
DRILL DEPTH	290.00 Feet		
COORDINATES N-S	45904 P		
E-W	-56565 P	PAGE	1 of 1



WELL NAME	299-E33-30	COMPLETION DATE	09/30/87
CASING ELEV.	663.70 Feet	INITIAL DEPTH TO WATER	257.57 ft
WELL DEPTH	275.00 Feet		
DRILL DEPTH	280.10 Feet		
COORDINATES N-S	45903 P		
E-W	-55660 P	PAGE	1 of 1



WELL NAME	699-36-61B	COMPLETION DATE	02/04/60
CASING ELEV.	749.26 Feet	INITIAL DEPTH TO WATER	341.0 ft
WELL DEPTH	380.00 Feet		
DRILL DEPTH	568.00 Feet		
COORDINATES N-S	36463 P		
E-W	-60685 P	PAGE	1 of 1



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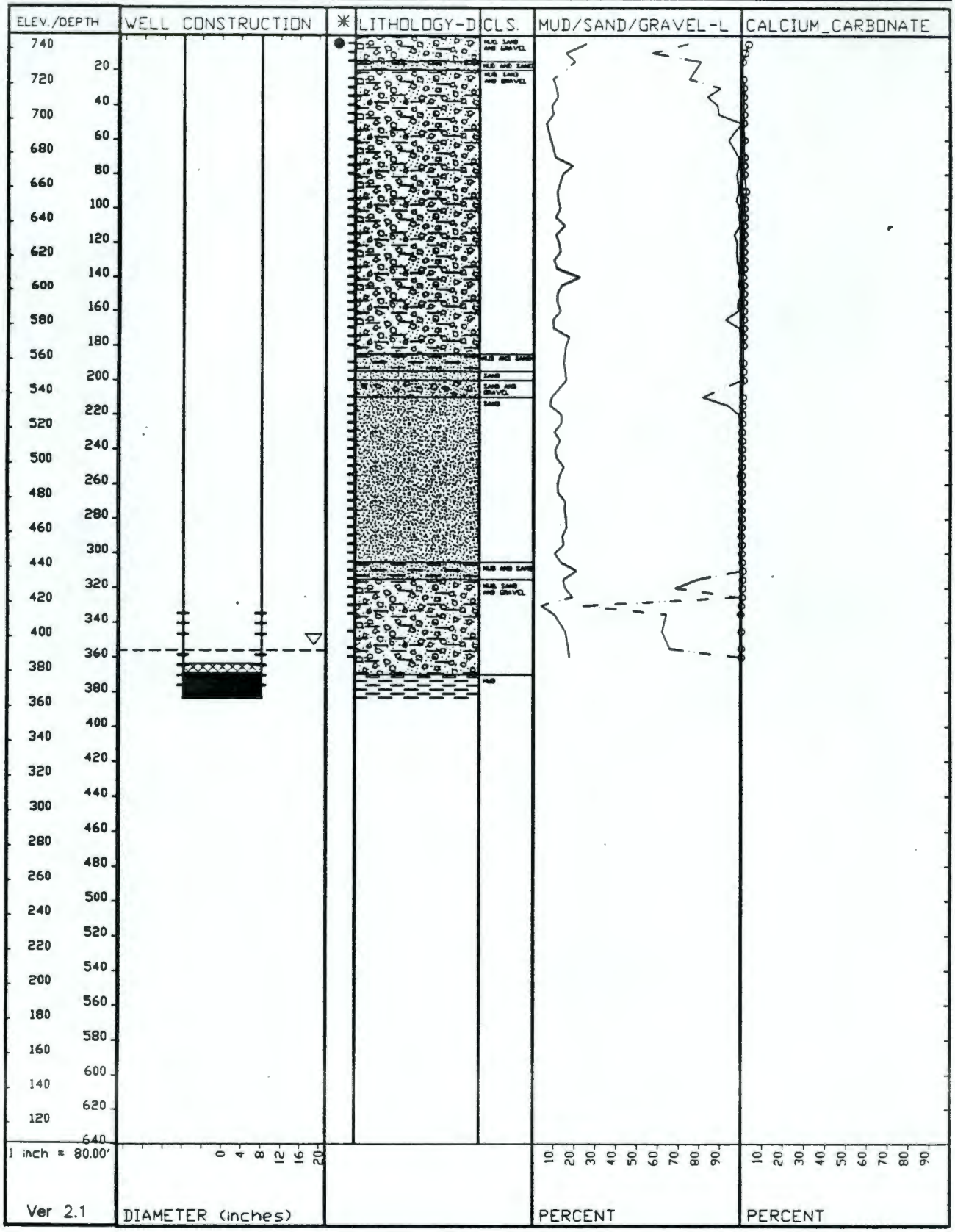
WELL NAME	699-40-62	COMPLETION DATE	01/17/49
CASING ELEV.	747.78 Feet	INITIAL DEPTH TO WATER	356.0 ft
WELL DEPTH	364.00 Feet		
DRILL DEPTH	384.00 Feet		
COORDINATES N-S	40300 P		
E-W	-61500 P	PAGE	1 of 1



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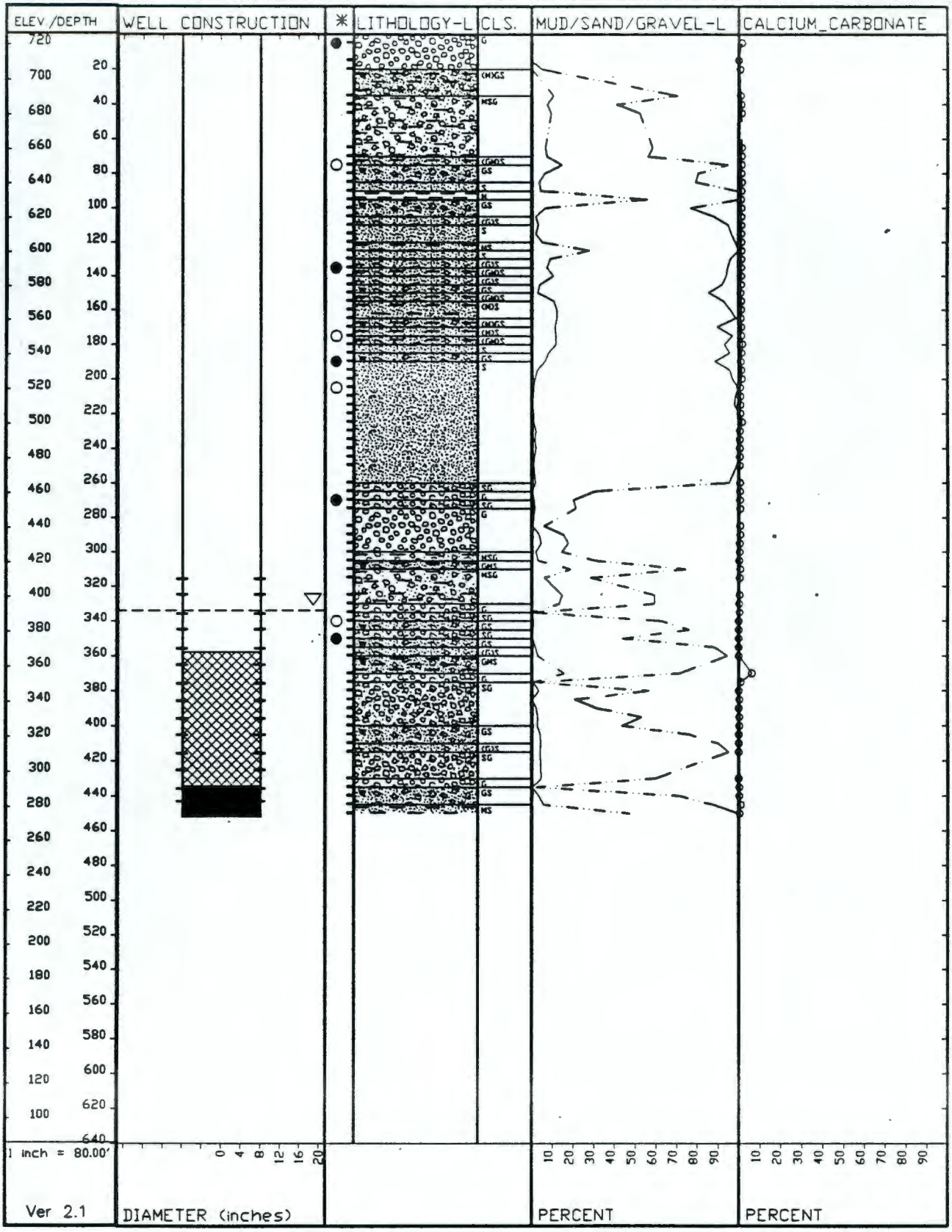
WELL NAME	699-44-64	COMPLETION DATE	01/31/60
CASING ELEV.	725.60 Feet	INITIAL DEPTH TO WATER	334.0 ft
WELL DEPTH	358.00 Feet		
DRILL DEPTH	452.00 Feet		
COORDINATES N-S	44053 P		
E-W	-63751 P	PAGE	1 of 1



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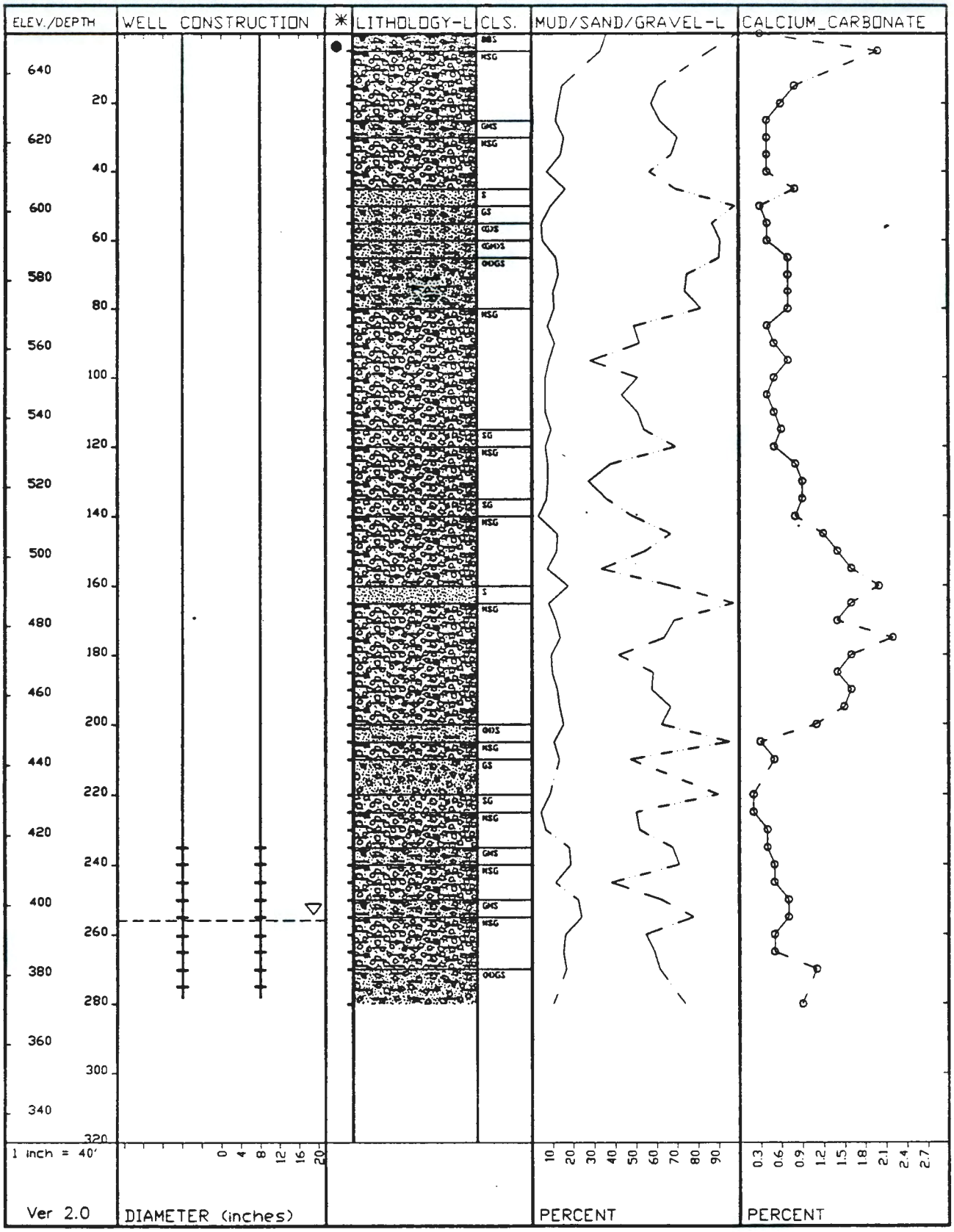
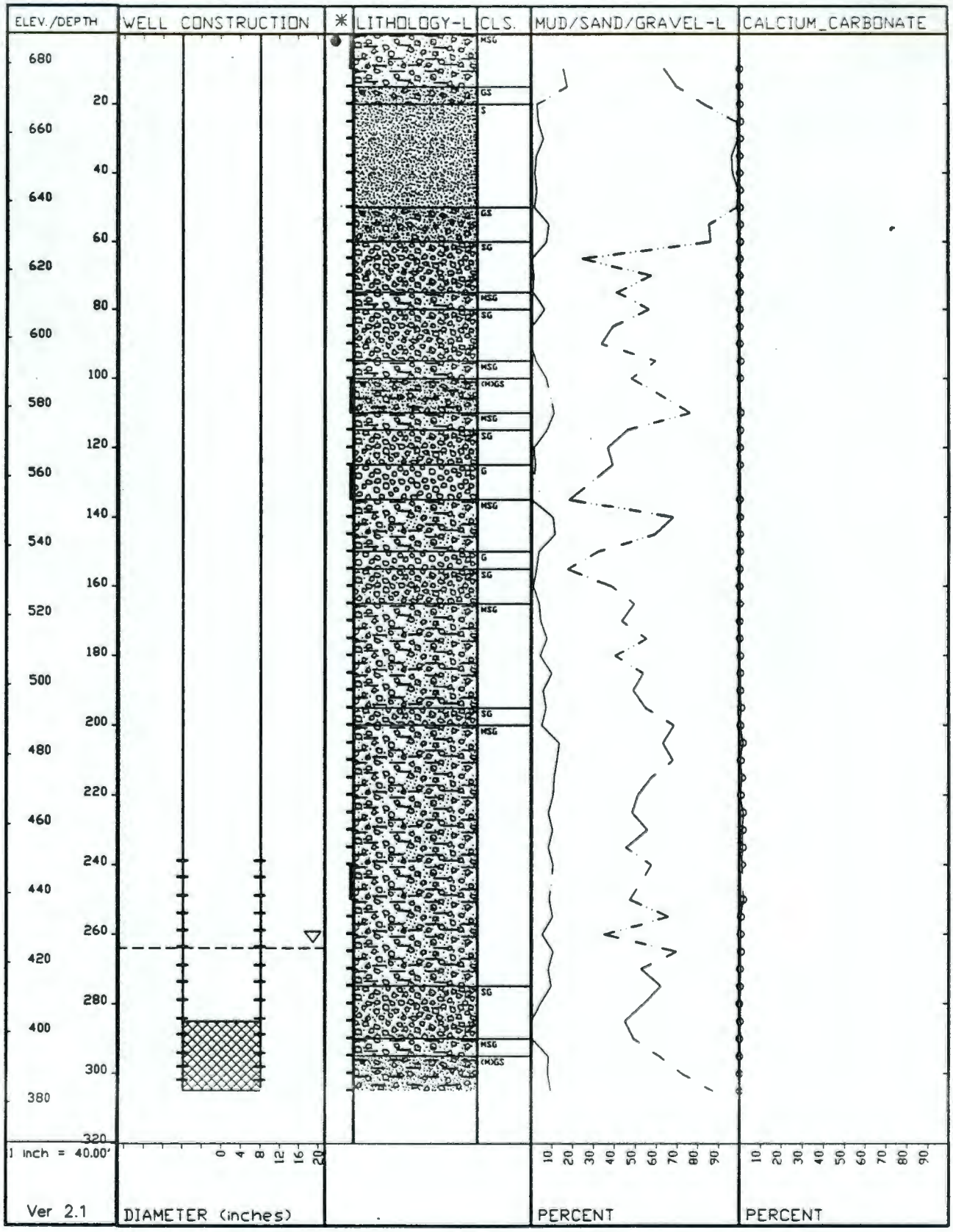
WELL NAME	699-47-60	COMPLETION DATE	07/20/48
CASING ELEV.	651.52 Feet	INITIAL	
WELL DEPTH	278.00 Feet	DEPTH TO WATER	256 ft
DRILL DEPTH	287.00 Feet		
COORDINATES N-S	47137 P		
E-W	-60286 P	PAGE	1 of 1



WELL NAME	699-48-71	COMPLETION DATE	09/26/56
CASING ELEV.	688.15 Feet	INITIAL DEPTH TO WATER	264.0 ft
WELL DEPTH	285.00 Feet		
DRILL DEPTH	305.00 Feet		
COORDINATES N-S	47838 P		
E-W	-70660 P	PAGE	1 of 1



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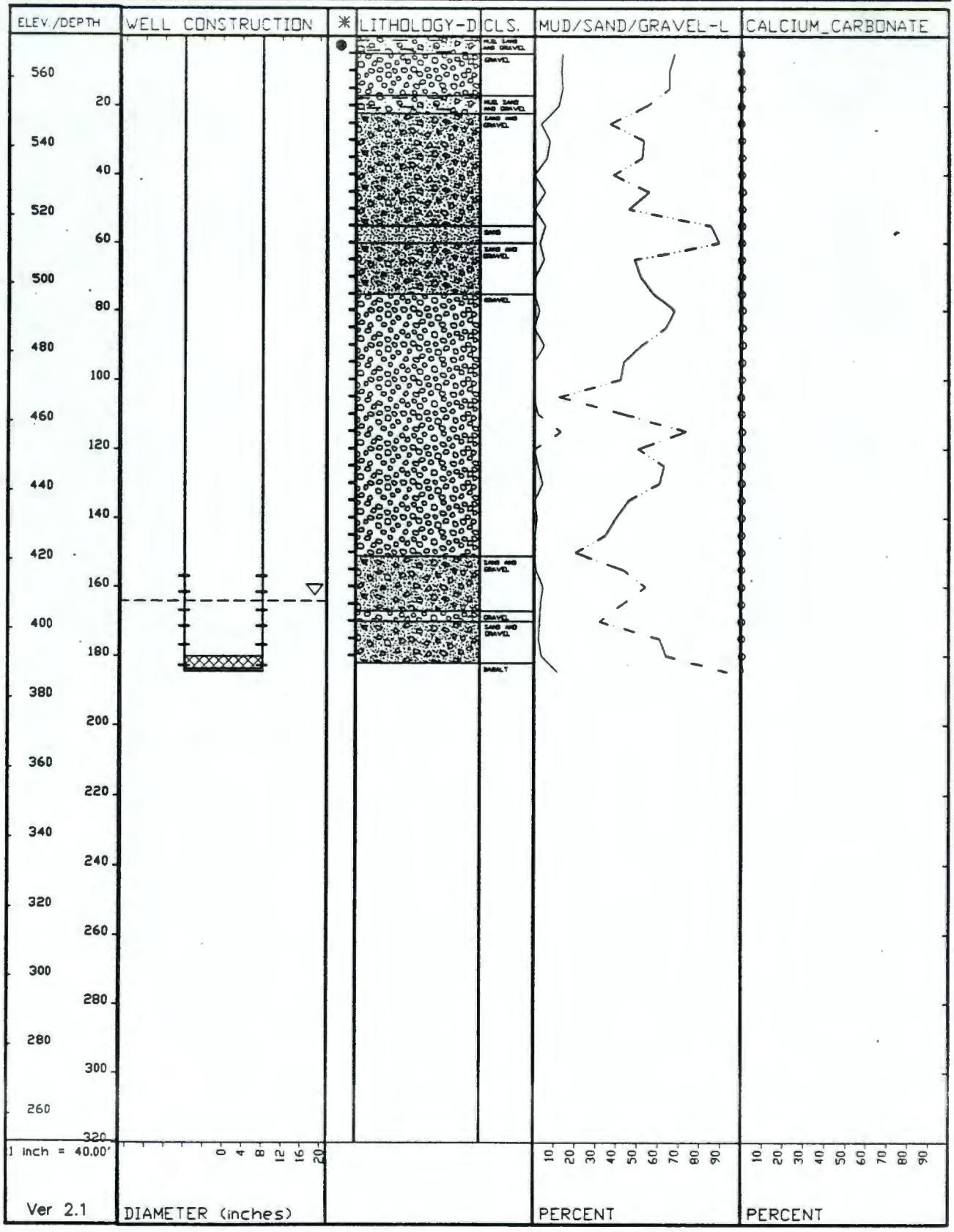
WELL NAME	699-51-63	COMPLETION DATE	11/06/56
CASING ELEV.	571.84 Feet	INITIAL DEPTH TO WATER	164.0 ft
WELL DEPTH	183.50 Feet		
DRILL DEPTH	184.60 Feet		
COORDINATES N-S	51449 P		
E-W	-63060 P	PAGE	1 of 1



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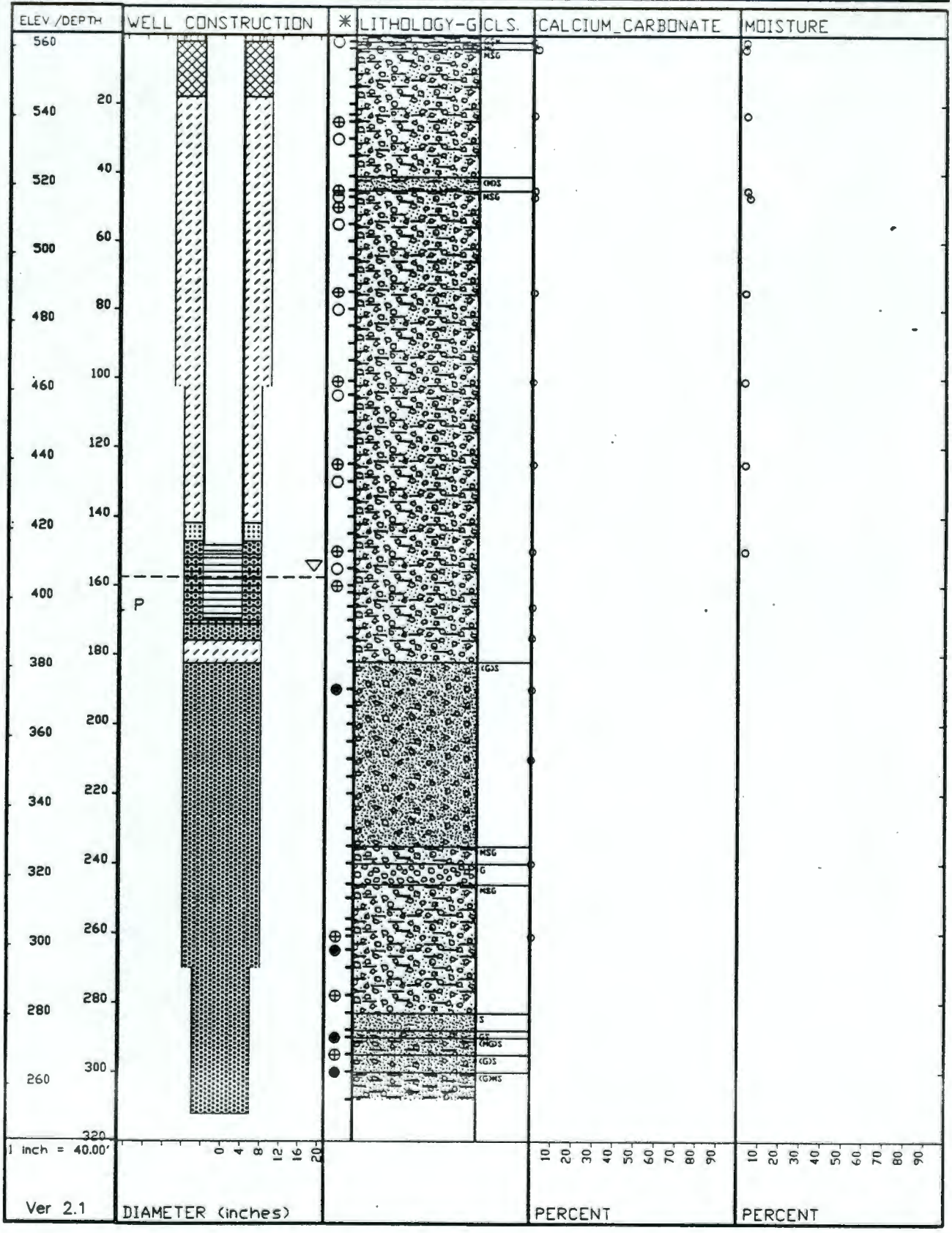
WELL NAME	699-55-55	COMPLETION DATE	12/03/91
CASING ELEV.	563.58 Feet	INITIAL DEPTH TO WATER	157.45 ft
WELL DEPTH	169.58 Feet		
DRILL DEPTH	312.00 Feet		
COORDINATES N-S	140150 LAMBERT NAD83		
E-W	573227.1 LAMBERT NAD83	PAGE	1 of 1



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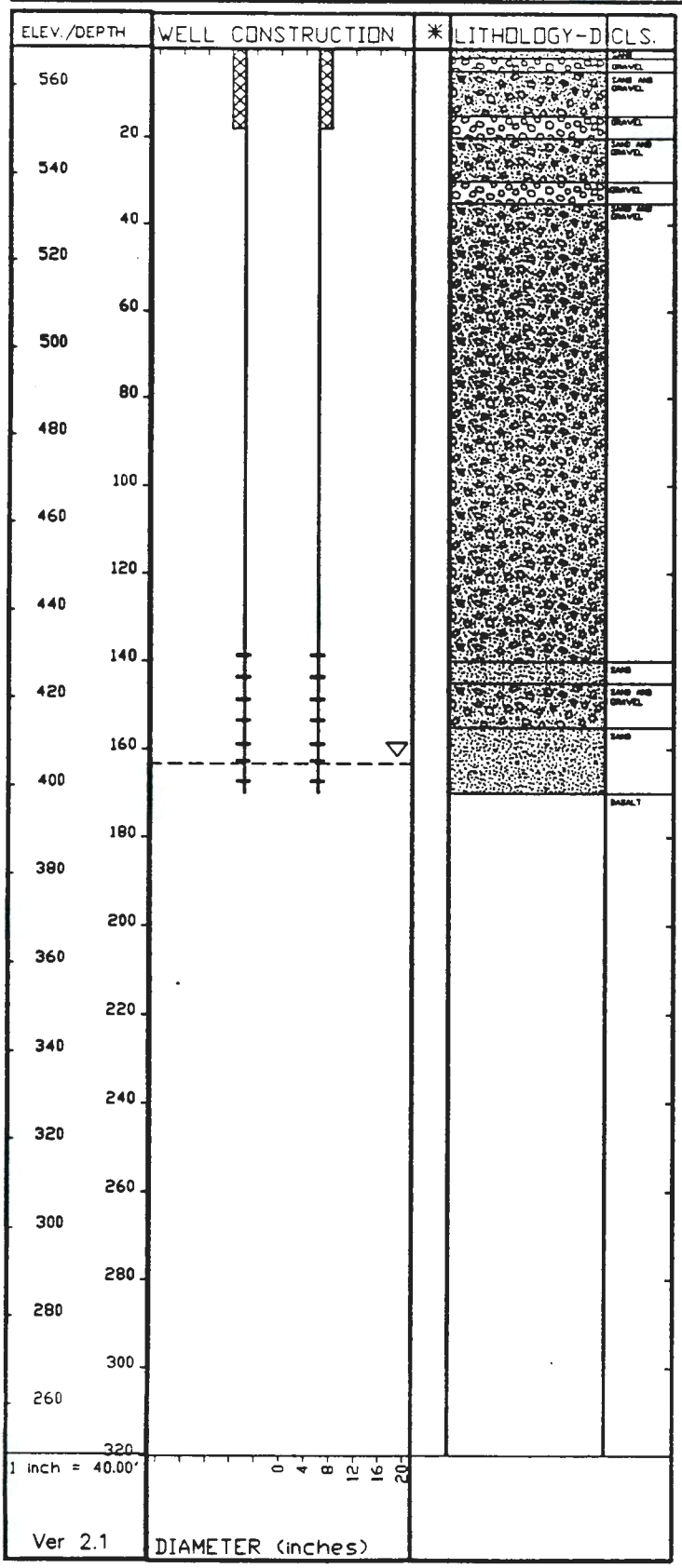
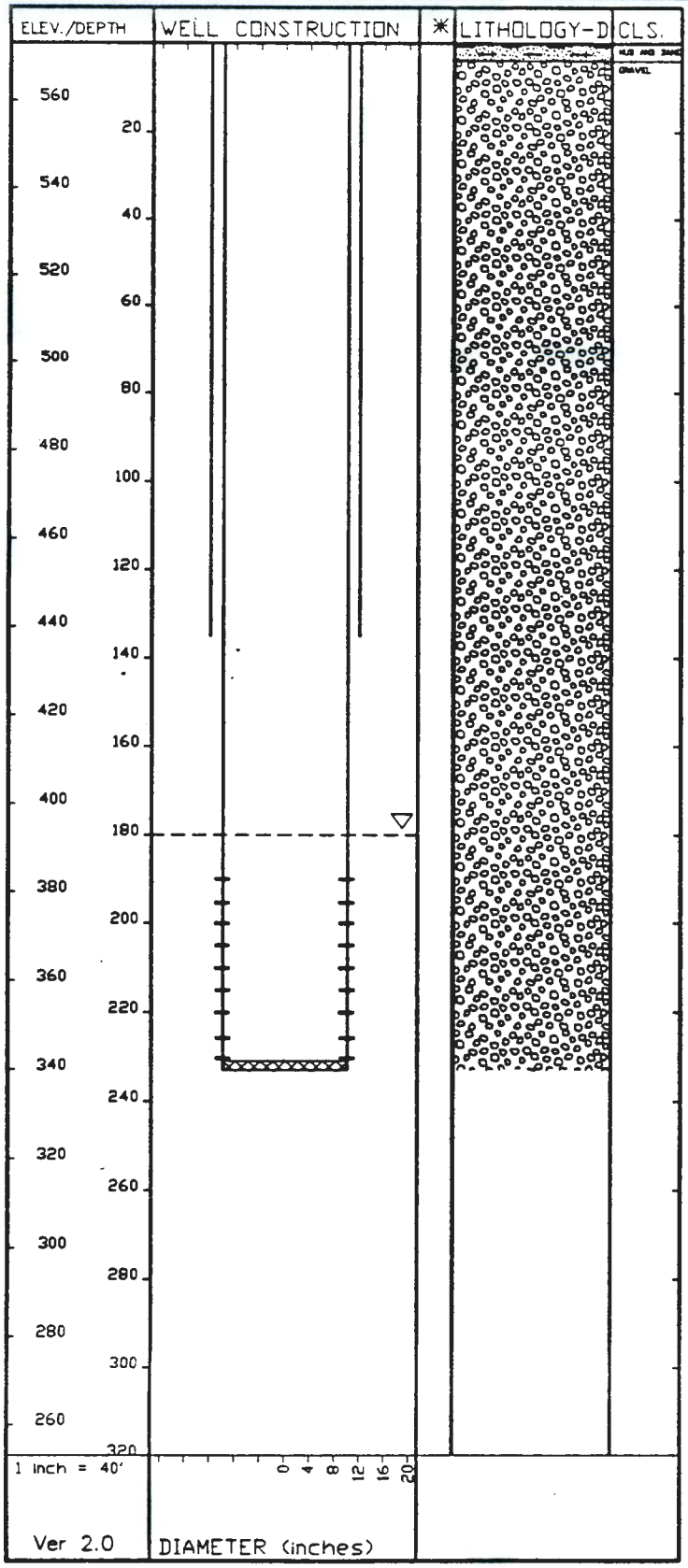
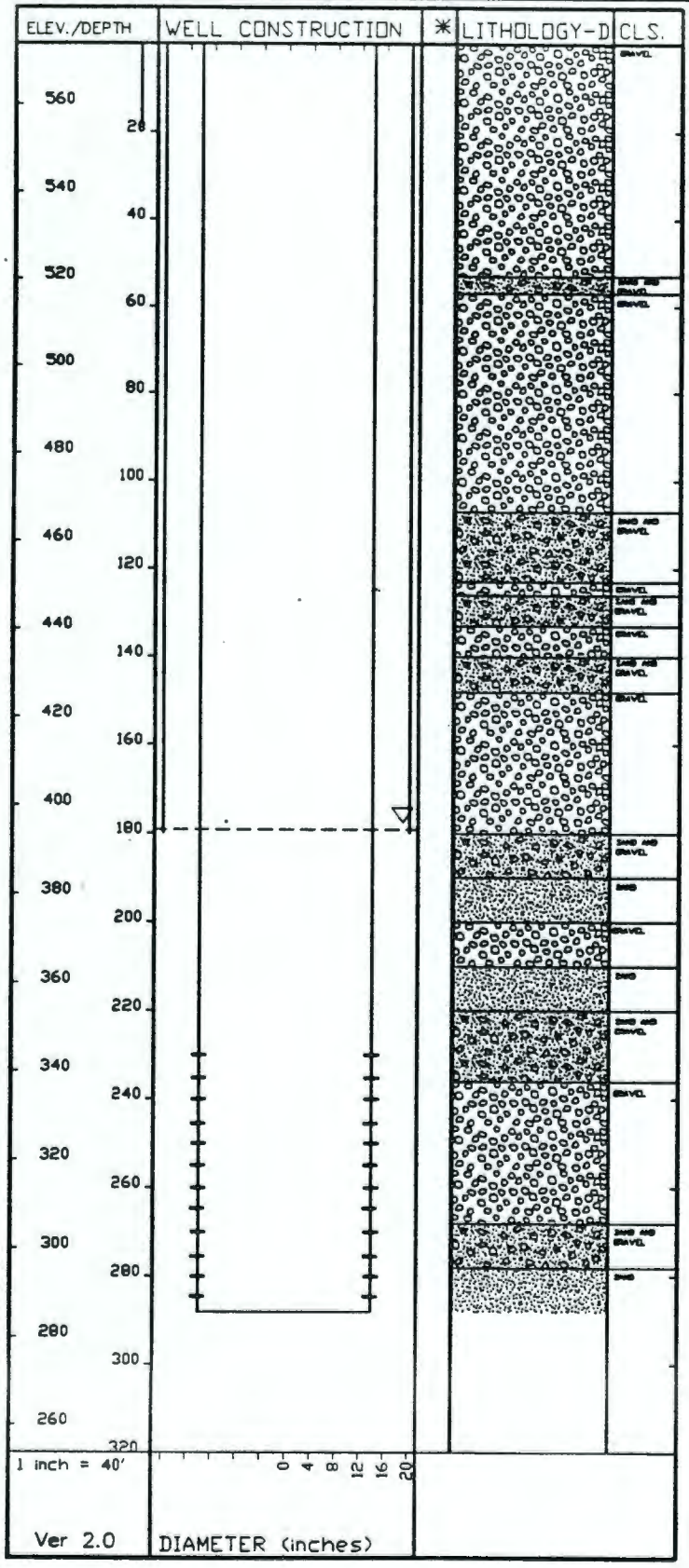
WELL NAME	699-55-57	COMPLETION DATE	05/16/75
CASING ELEV.	568.22 Feet	INITIAL DEPTH TO WATER	163.2 ft
WELL DEPTH	180.00 Feet		
DRILL DEPTH	180.00 Feet		
COORDINATES N-S	54608 P		
E-W	-57208 P	PAGE	1 of 1



WELL NAME	699-55-60A	COMPLETION DATE	12/15/43
CASING ELEV.	572.89 Feet	INITIAL DEPTH TO WATER	180 ft
WELL DEPTH	231.00 Feet		
DRILL DEPTH	233.00 Feet		
COORDINATES N-S	55100 P		
E-W	-60100 P	PAGE	1 of 1



WELL NAME	699-55-60B	COMPLETION DATE	07/20/44
CASING ELEV.	573.68 Feet	INITIAL DEPTH TO WATER	179.07 ft
WELL DEPTH	288.00 Feet		
DRILL DEPTH	288.00 Feet		
COORDINATES N-S	55425 P		
E-W	-60140 P	PAGE	1 of 1



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List attachments.

Date Release Required: August 7, 1992

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Unclassified Category: UC- N/A

Impact Level: 4

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Legal - General Counsel	[]	[X]	Williamson 8/5/92 V.B.
Applied Technology/Export Controlled Information or International Program	[]	[X]	
WHC Program/Project	[]	[X]	
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RL Program/Project	[]	[X]	
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Other Program/Project	[]	[X]	

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EDT No.: 156730 ECN No.: N/A

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M. A. Chamness	K6-96	X		
D. B. Erb	H4-55	X		
J. W. Fassett	G6-50	X		
M. J. Galgoul	H4-55	X		
D. G. Horton	H4-56	X		
R. L. Jackson	H4-56	X		
A. J. Knepp	H4-56	X		
G. J. Koizumi	G6-50	X		
S. E. Kos	H4-56	X		
G. V. Last	K6-96	X		
R. E. Lewis	K6-96	X		
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D. L. Parker	H4-55	X		
A. W. Pearson	K6-96	X		
R. K. Price	G6-50	X		
G. D. Spice	H4-56	X		
S. S. Teel	K6-96	X		
S. J. Trent (10)	H4-56	X		
M. A. Wasemiller	H4-55	X		
C. D. Wittreich (5)	H4-55	X		
Central Files	L8-04	X		
EDMC (2)	H4-22	X		
IRM Clearance	H4-17	X		