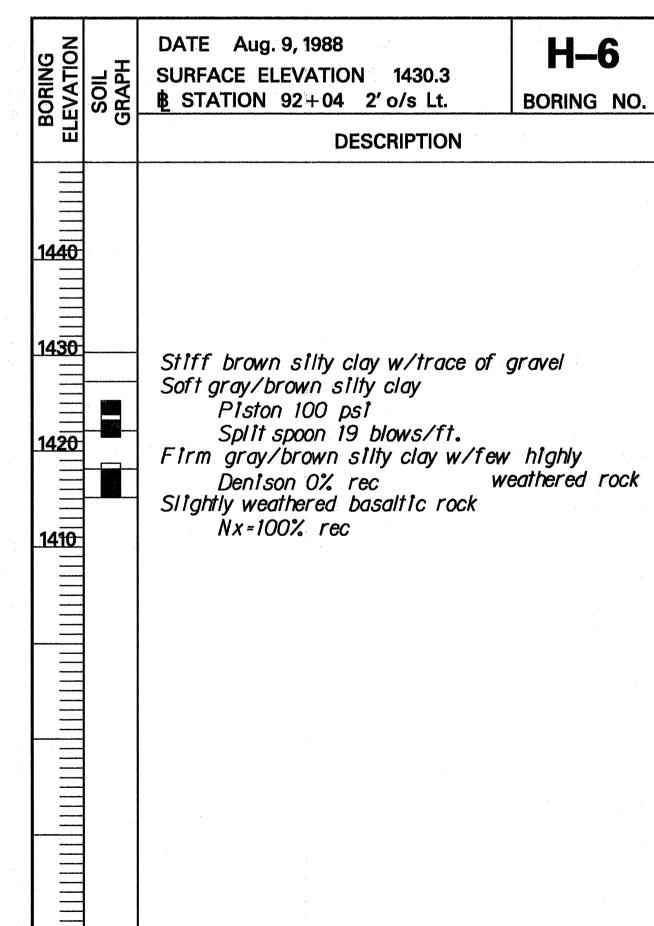


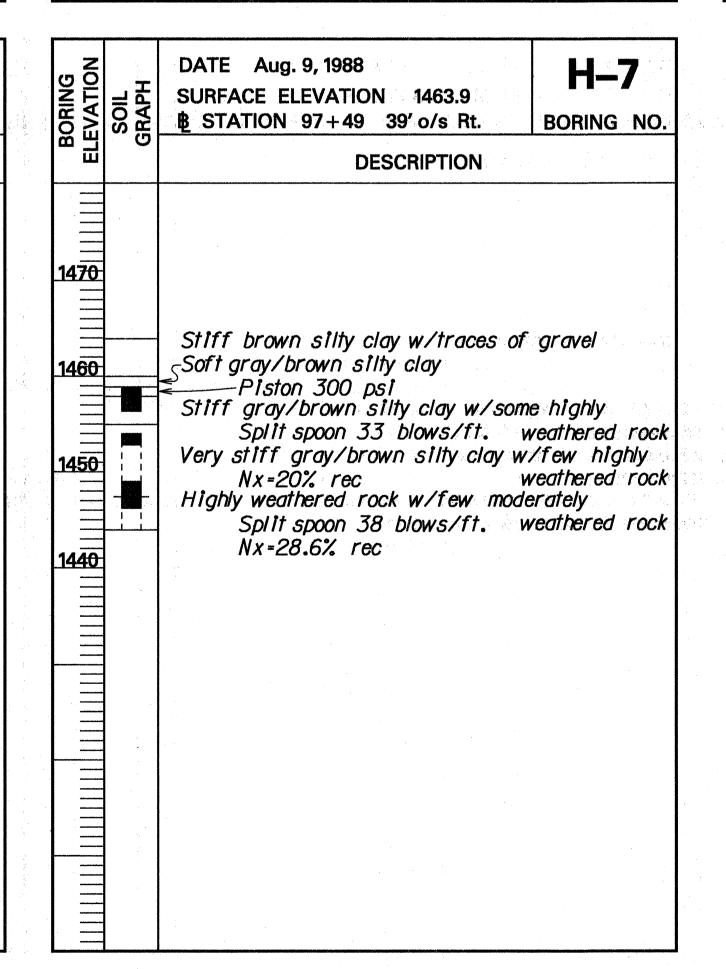
BORING ELEVATION SOIL GRAPH	DATE Aug. 3, 1988  SURFACE ELEVATION 1129.9  B STATION 53+80 30' o/s Lt.  BORING NO.
1130 1110 1110 1100 1090	Firm brown silty clay  Nx=100% rec Unweathered basaltic rock Nx=70% rec Cavity  Nx=100% rec Nx=100% rec Nx=90% rec Highly weathered rock, unweathered & vesicular Nx=60% rec basaltic rock Nx=100% rec Unweathered basaltic rock Nx=52% rec  Unweathered fractured vesicular basaltic rock Nx=100% rec Nx=93% rec

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BORING	SOIL GRAPH	DATE Aug. 4, 1988  SURFACE ELEVATION 1223.1  B STATION 60+15 3' o/s Rt.  DESCRIPTION  H—3  BORING NO.
1230		Firm brown silty clay w/few gravel  Split spoon 17 blows/0.2 ft.  Nx=83% rec  Unweathered basaltic rock  Nx=90% rec  Nx=10% rec  Highly weathered rock  Split spoon 45/0.1-23/0.1 blows/ft.  Nx=90% rec  Unweathered fractured vesicular basaltic rock  Nx=100% rec  Unweathered basaltic rock

			HAWAII	HAW.	37C-0
BORING ELEVATION	SOIL GRAPH	DATE Aug. 8, 1988 SURFACE ELEVATION 131 LE STATION 74+77 2' o/s DESCRIP	Lt.	H-4	NO.
1320		Stiff brown silty clay  Denison=30% rec  Soft brown silty clay  Split spoon 8 blows  Moderately & highly weath  w/traces of st  Split spoon 19/0.5-30/  Nx=56.8% rec  Moderately weathered rock  Nx=100% rec	ered basa iff brown /0.1-10/0	silty clay	

BORING	GRAPH	DATE Aug. 5, 1988 SURFACE ELEVATION 1362.8 BE STATION 82+07 9' o/s Rt.	H-5 BORING NO.
	0	DESCRIPTION	
13 <del>70</del> 1360 1340		Denison=75% rec Split spoon 14 blows/0.2 ft. Stiff brown silty clay  Nx=100% rec Unweathered basaltic rock	





STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

## BORING LOG

HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE II
Hamakua Ditch to Kula Junction
PROJECT NO. 37C-01-92

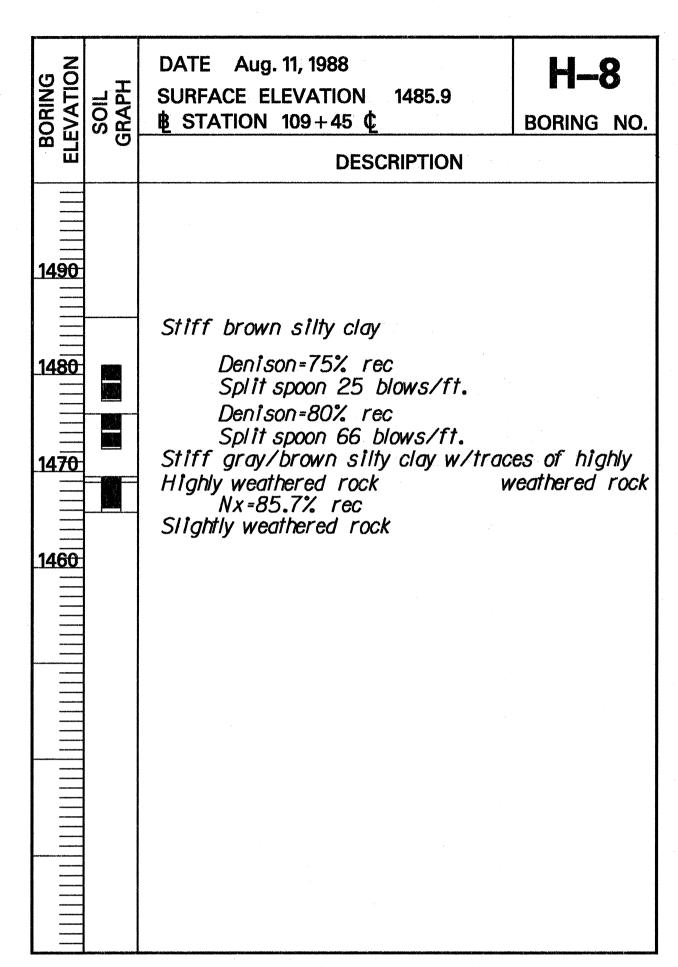
SHEET No. 1 OF 2 SHEETS

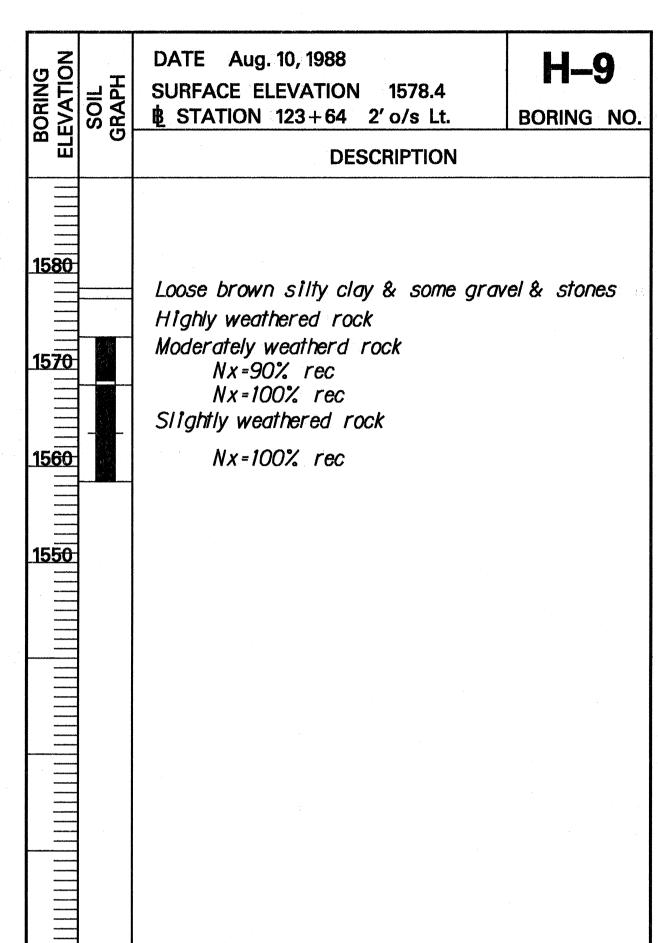
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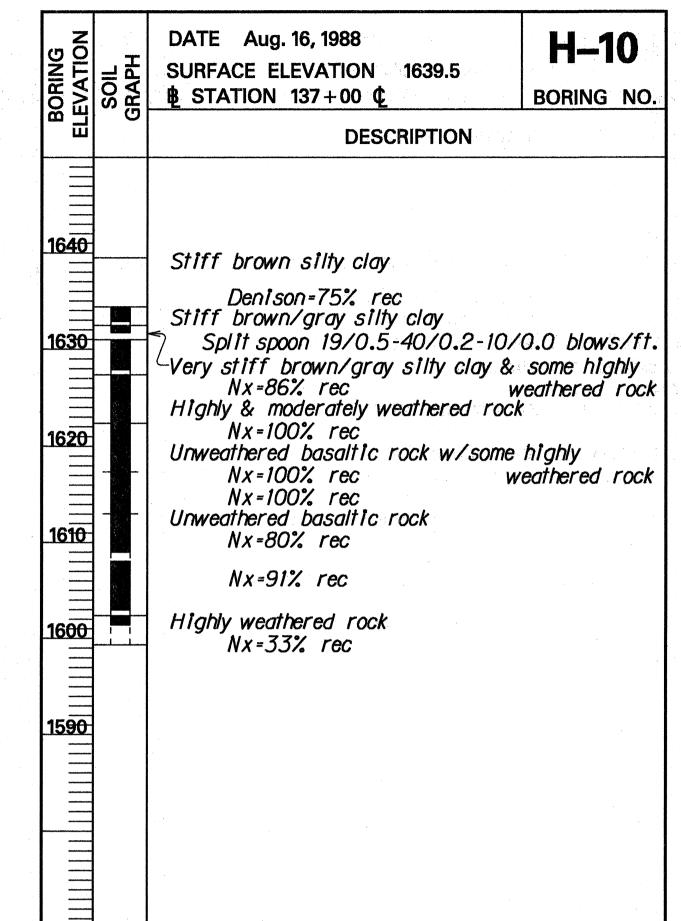
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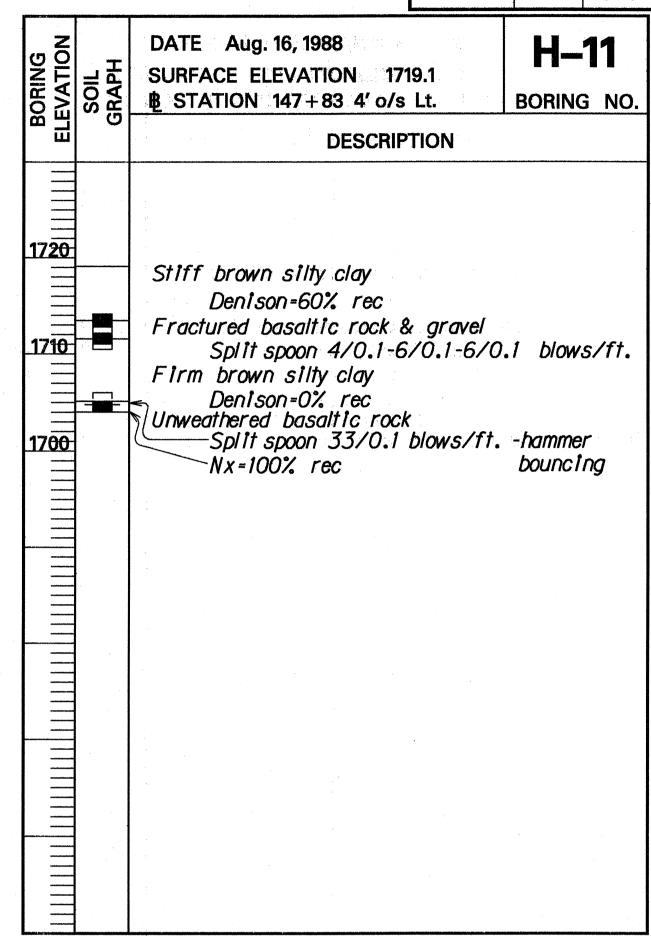
FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET TOTAL SHEETS

HAWAII HAW. 37C-01-92 1992 22 66









| SURVEY PLOTTED BY | DATE | DATE | DATE | DRAWN BY | TRACED BY | CHECKED BY | CHEC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

## BORING LOG

HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE II
Hamakua Ditch to Kula Junction
PROJECT NO 370-01-92

PROJECT NO. 37C-01-92

Date: July 1990

SHEET No. 2 OF 2 SHEETS