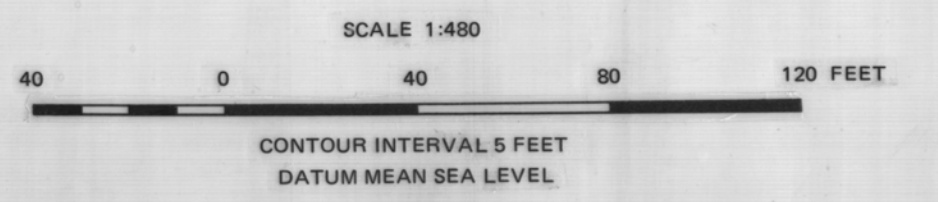
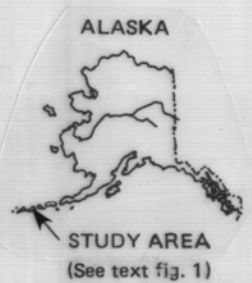
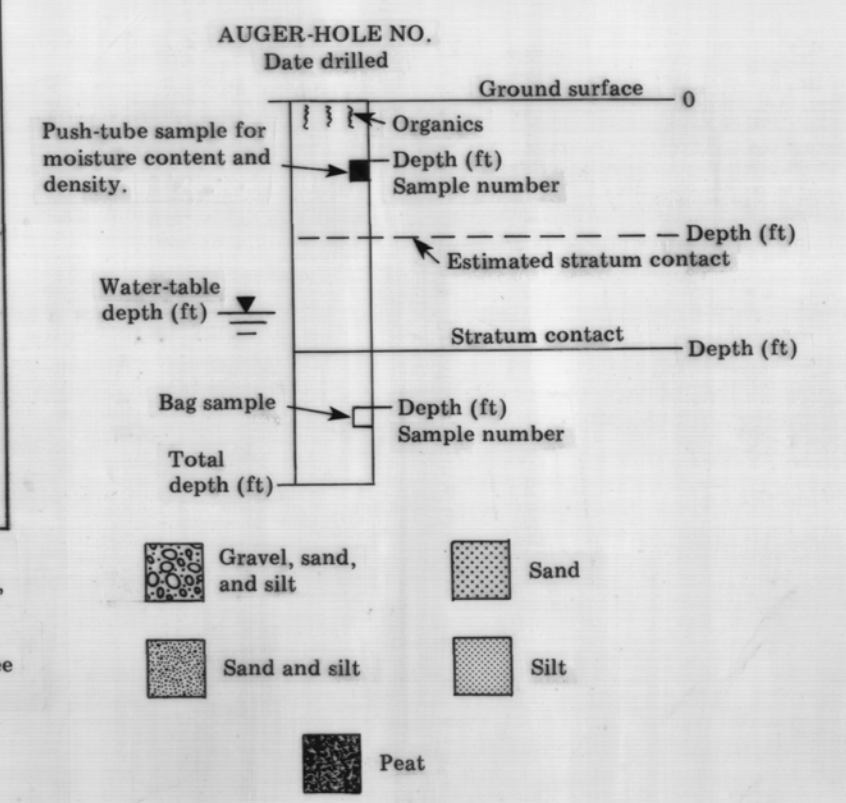


Topographic base by R.A. Combelick (see plate B-1).  
ST-1 Resource-confirmation well drilled by Republic Geothermal, Inc. in 1983.

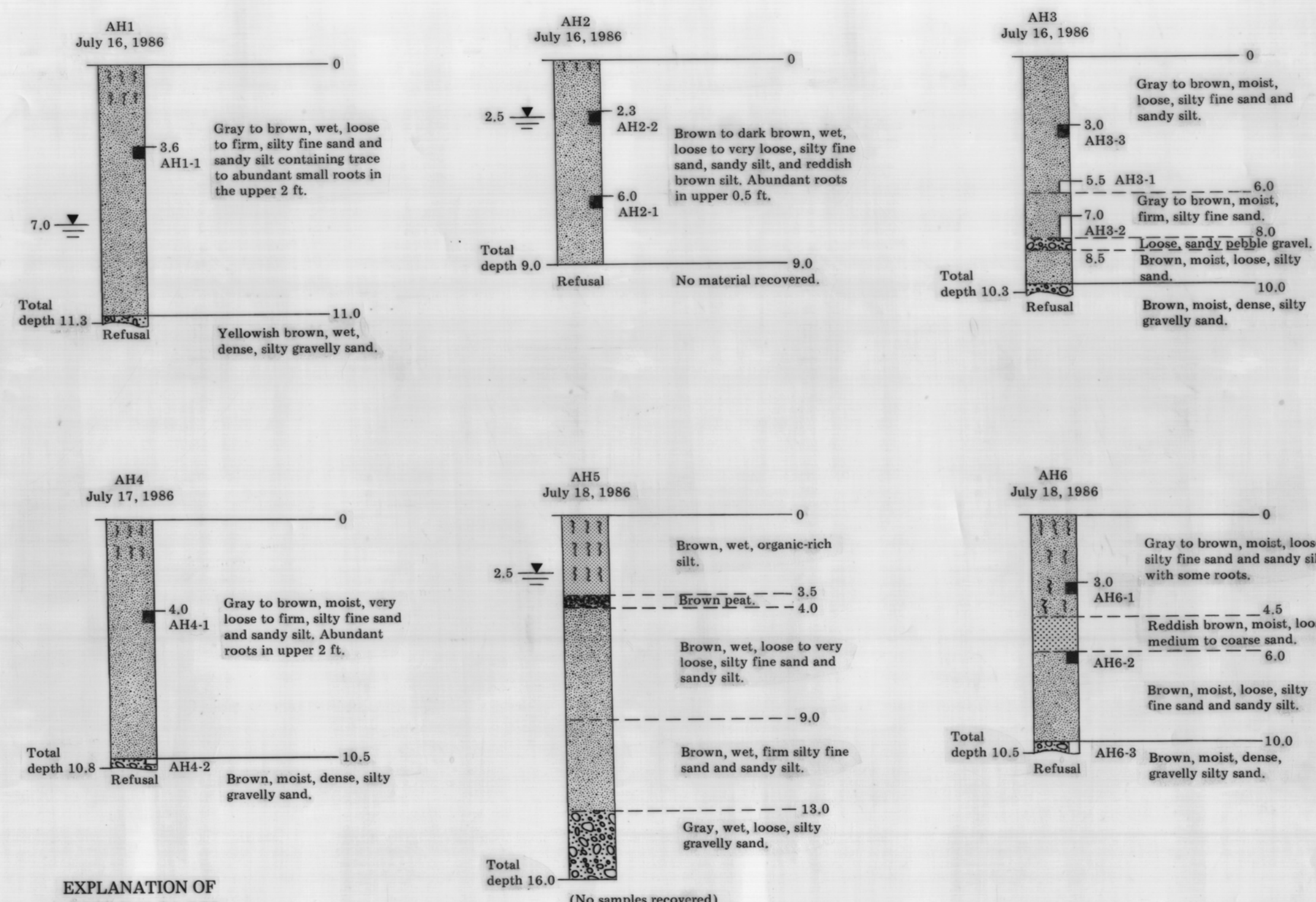


Field assistance by R.D. Allely, D.F. Jones, David Denig-Chakroff, S.J. Carrick, and C.E. Holmes. Seismic-refraction data processed and interpreted by R.D. Allely (see appendix A).

EXPLANATION OF AUGER-HOLE LOGS



AUGER-HOLE LOGS

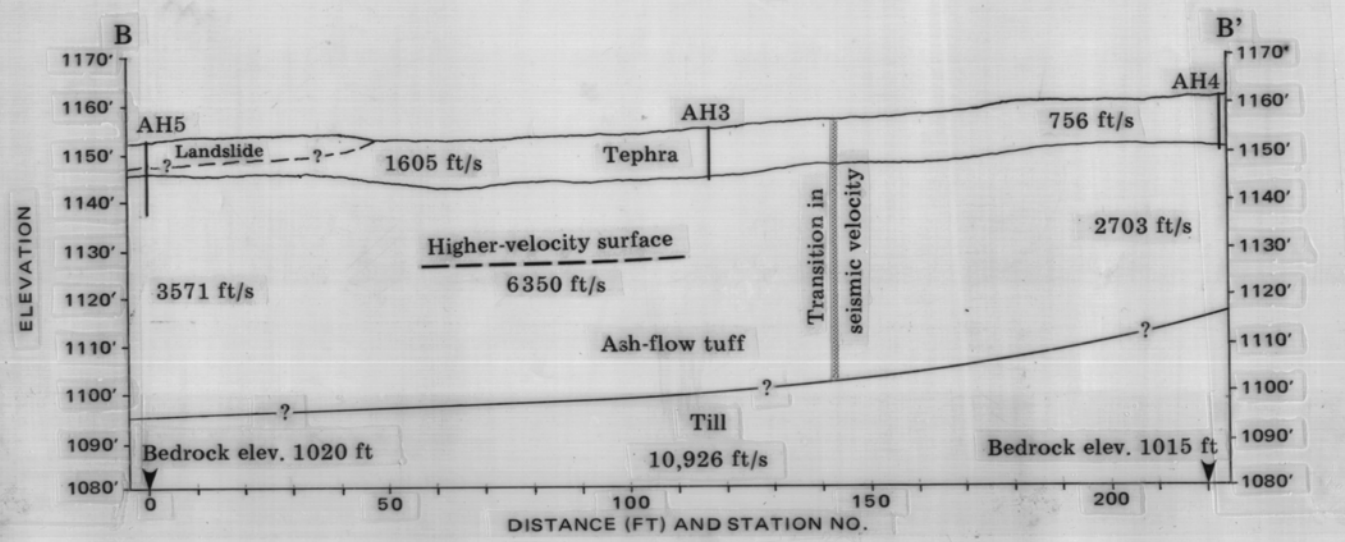
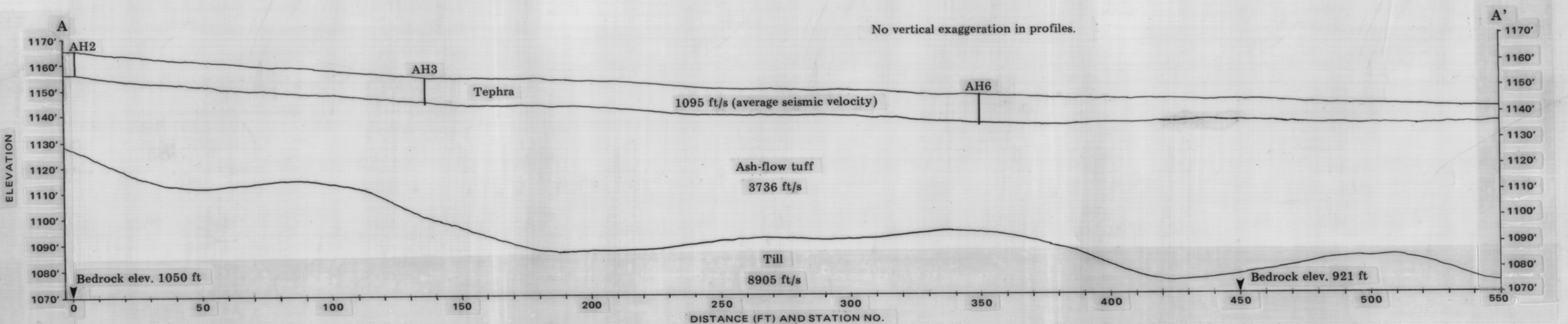


ANALYTICAL DATA

SAMPLE #	WET DENSITY (PCF)	WATER CONTENT	DRY DENSITY (PCF)	% GRAVEL (#4+)	% SAND (#4-#200)	% SILT+CLAY (#200-)	% ORGANICS
AH1-1	107.7	39.4%	77.3	0	58	42	<5
AH2-1	101.4	85.5%	61.3	0	85	34	<5
AH2-2	96.2	83.8%	58.8	0	51	48	<5
AH3-1	*	*	*	0	67	33	<5
AH3-2	*	*	*	0	59	41	<5
AH3-3	95.1	73.7%	54.8	0	63	37	<5
AH4-1	106.2	47.3%	72.1	0	88	32	<5
AH4-2	*	*	*	21	84	15	<5
AH5-1	103.0	46.5%	70.3	0	56	44	<5
AH5-2	104.0	43.0%	72.8	0	69	31	<5
AH5-3	*	*	*	9	70	21	<5

\* Not determined

SEISMIC-REFRACTION PROFILES



DESCRIPTION OF MAP UNITS

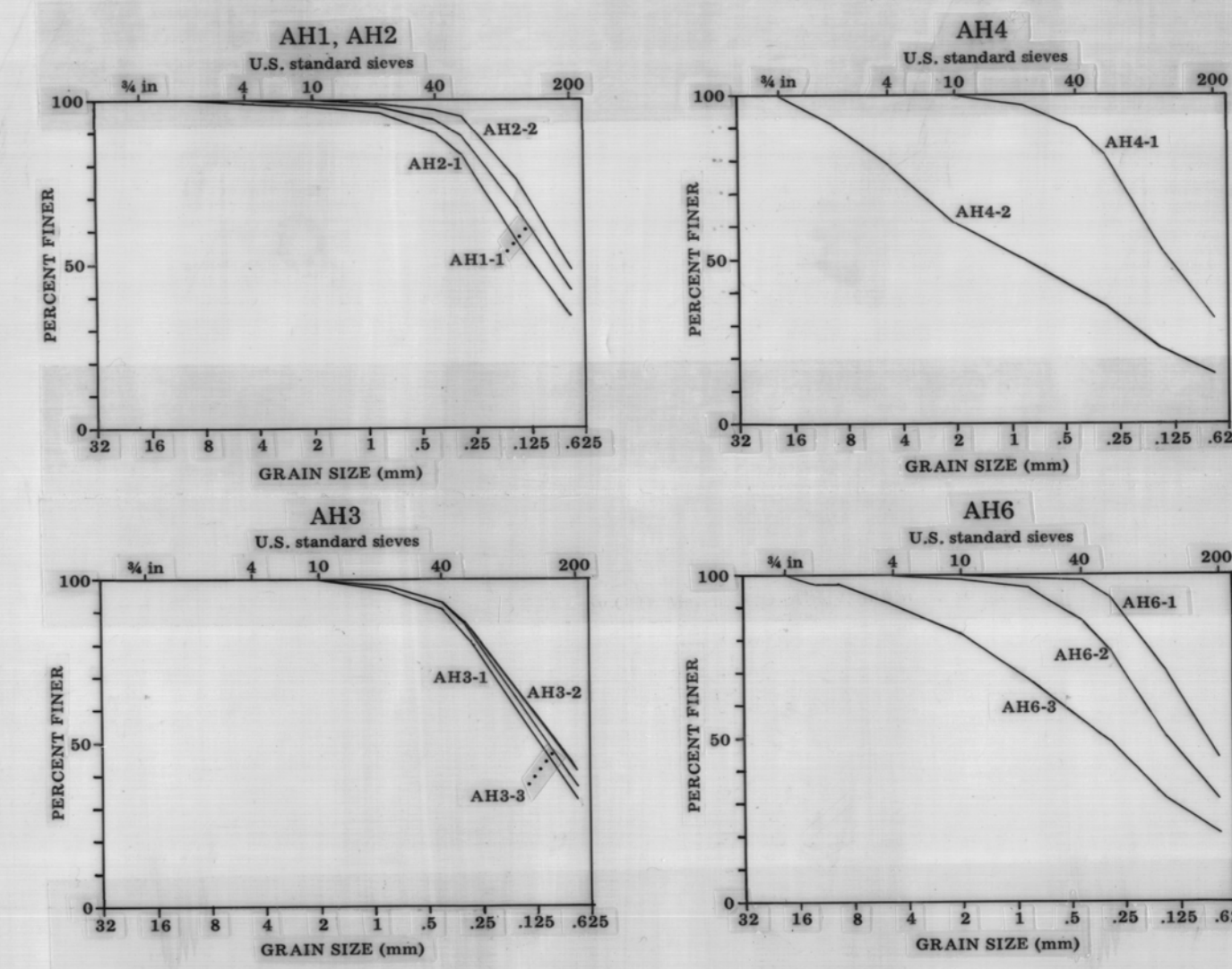
- t TEPHRA - Stratified, loose to firm, silty fine sand and sandy silt (volcanic ash) with scattered organic material. Thickness is 9 to 13 ft. Permeability is low, drainage is poor to fair. Fair as foundation material. Easily excavated. Overlies nonstratified, compact silty gravelly sand (ashflow tuff).
- ls LANDSLIDE DEPOSIT - Nonstratified, loose to very loose, silty fine sand and sandy silt with abundant organic material and scattered pebbles and cobbles. Estimated thickness is 0 to 10 ft. Surface is hummocky with some closed depressions. Permeability is low, drainage is poor. Poor as foundation material. Easily excavated.

MAP SYMBOLS

- Auger-hole location
- - - Approximate geologic contact.

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GRAIN-SIZE DISTRIBUTIONS OF AUGER-HOLE SAMPLES



ENGINEERING GEOLOGY OF THE PROPOSED SITE FOR A GEOTHERMAL POWER PLANT ON UNALASKA ISLAND, ALASKA

By  
R.A. Combelick

1986