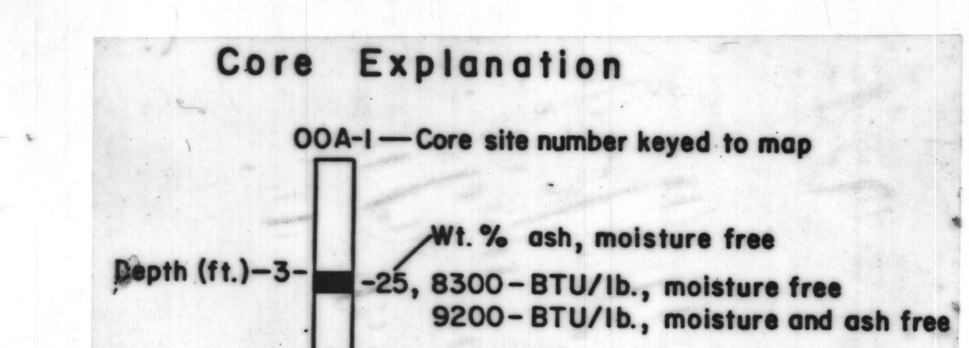
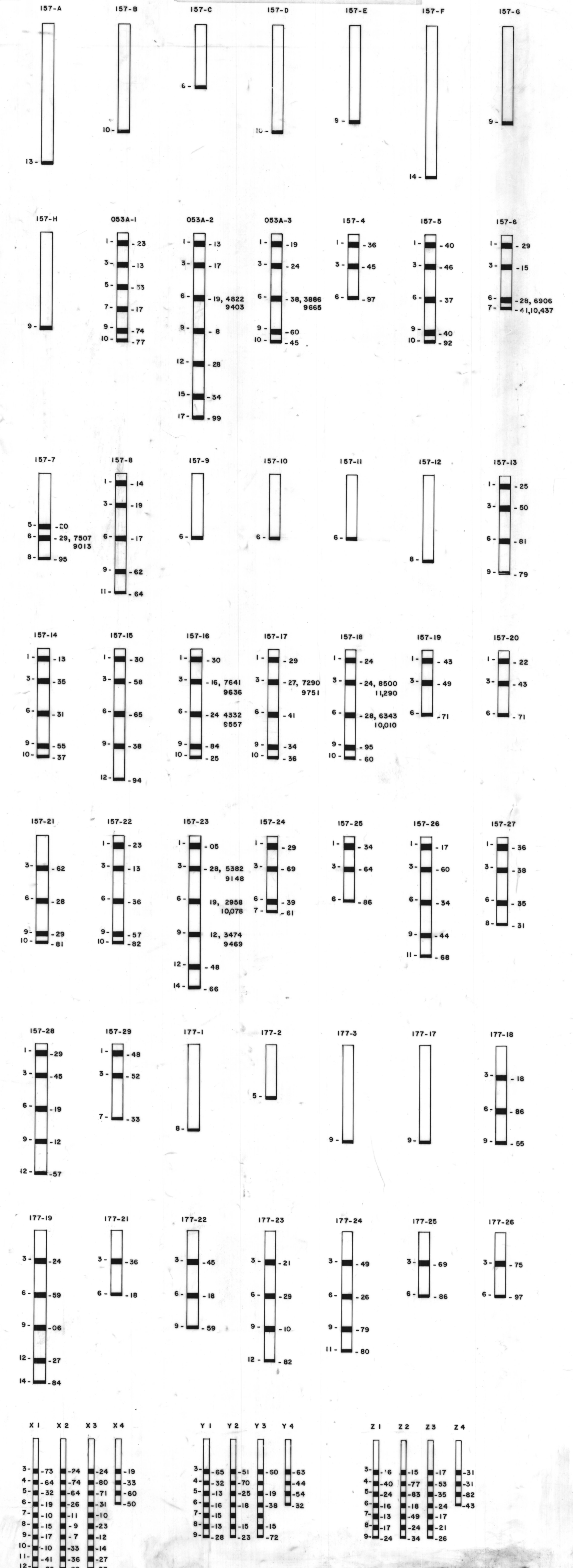


EXPLANATION



Core Samples



Total Acres Peat 11,399  
 Total Tons Peat, MAF 15,815 x 10<sup>3</sup>  
 Total Quads\*, MAF 0.31  
 \*1 Quad = 10<sup>15</sup> BTU

Estimated Peat Resources

- 7 lb. peat/ft., moisture and ash free (MAF)
- 9,732 BTU/lb., mean moisture and ash free BTU determined from analyzed cores of this study
- 3.1 ft. mean peat depth determined from cores on this map

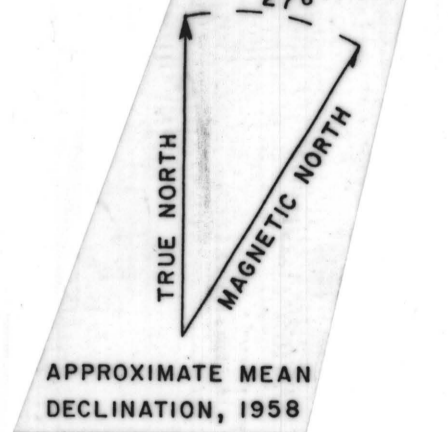
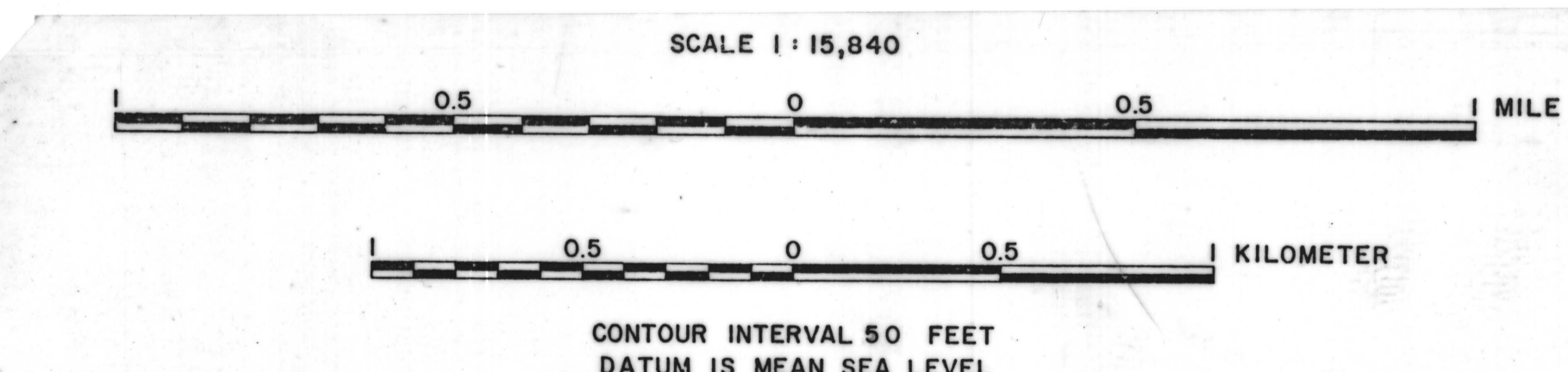
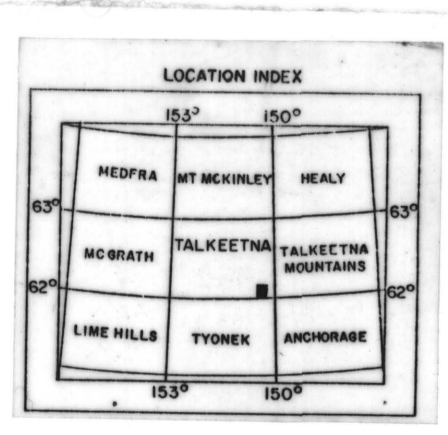
Symbols

- Peatland
- OOA-1 Core site and number

SECTION	RW R5W				RW R5W				RW R5W				RW R5W			
	ACRES	TONS x 10 <sup>3</sup>	SEC-TION	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	SEC-TION	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	SEC-TION	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	SEC-TION	TONS x 10 <sup>3</sup>
24	214.1	297.0	19	330.7	458.8	20	214.1	297.0	21	248.7	345.0	22	211.8	293.8	23	0
25	367.0	509.2	30	295.3	409.7	29	224.5	311.5	28	363.6	504.5	27	215.8	299.4	26	99.8
T25N 36	234.3	325.1	31	202.0	280.3	32	98.1	136.1	33	146.0	202.6	34	199.1	276.2	35	36.9
T24N 2	66.9	92.8	1	262.0	363.5	6	294.1	408.0	5	190.4	264.2	4	33.5	46.5	3	173.7
11	74.4	103.2	12	330.1	458.0	7	451.3	626.1	8	268.9	373.1	9	33.5	46.5	10	61.2
14	53.1	73.7	13	324.3	449.9	18	323.2	448.4	17	280.5	389.2	16	122.9	170.5	15	0
23	96.4	133.7	24	435.1	603.7	19	177.7	246.5	20	333.6	462.8	21	362.4	502.8	22	136.8
26	15.0	20.8	25	460.5	638.9	30	166.8	231.4	29	226.8	314.7	28	275.9	382.8	27	225.6
35	53.7	74.5	36	234.3	325.1	31	402.8	558.8	32	212.4	294.7	33	208.9	289.8	34	317.4

Based from U.S. Geological Survey Talkeetna A-1 Quadrangle, Alaska, 1958

Based on aerial photograph interpretation (1979) MASA D-2, lines 99-100) September 1981 through November 1981. Coring by Northern Technical Services (NORTEC), Anchorage, Alaska, July 1981 through September 1981. Analysis for NORTEC by Dr. Rouse Farham, consultant, Hibbing, Minnesota, and Mineral Industry Research Laboratory, University of Alaska, Fairbanks, Alaska.



PEAT RESOURCE MAP, NORTH-CENTRAL TALKEETNA A-1 QUADRANGLE, ALASKA

by  
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 1982  
<sup>1</sup> Alaska Division of Geological and Geophysical Surveys <sup>2</sup> Northern Technical Services, Anchorage, Alaska

In this report, total tons and total btu values are for moisture- and ash-free peat. U.S. Department of Energy fuel-grade-peat criteria include a minimum of 8,300 btu/lb (dry) and a maximum of 25 percent ash. However, 8,300 btu/lb corresponds to an ash content of about 17 percent, which is considered critical for fuel-grade peat. Twenty-seven percent of all samples (n=51) analyzed for ash has less than 25 percent ash and 11 percent has less than 17 percent ash. These values for total tons and total btu's of in-situ fuel-grade peat are approximately 11 percent of those values shown, or 1,667 x 10<sup>3</sup> and 3.4 x 10<sup>13</sup>, respectively; total quads is 0.034.

If peat processing reduces the ash content by 50 percent, the maximum allowable in-situ ash content is 34 percent. Forty-three percent of all samples analyzed for ash has less than 34 percent ash; 43 percent of the total tons and total btu's is 6,515 x 10<sup>3</sup> and 13.2 x 10<sup>13</sup>, respectively; total quads is 0.132.

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and as such has not received final editing and review. The author will appreciate candid comments on the accuracy of the data, and welcomes suggestions that will improve the report.

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