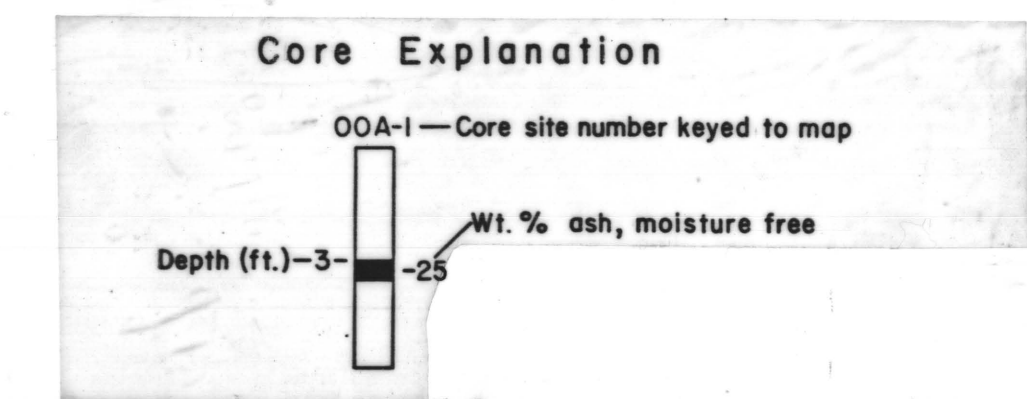
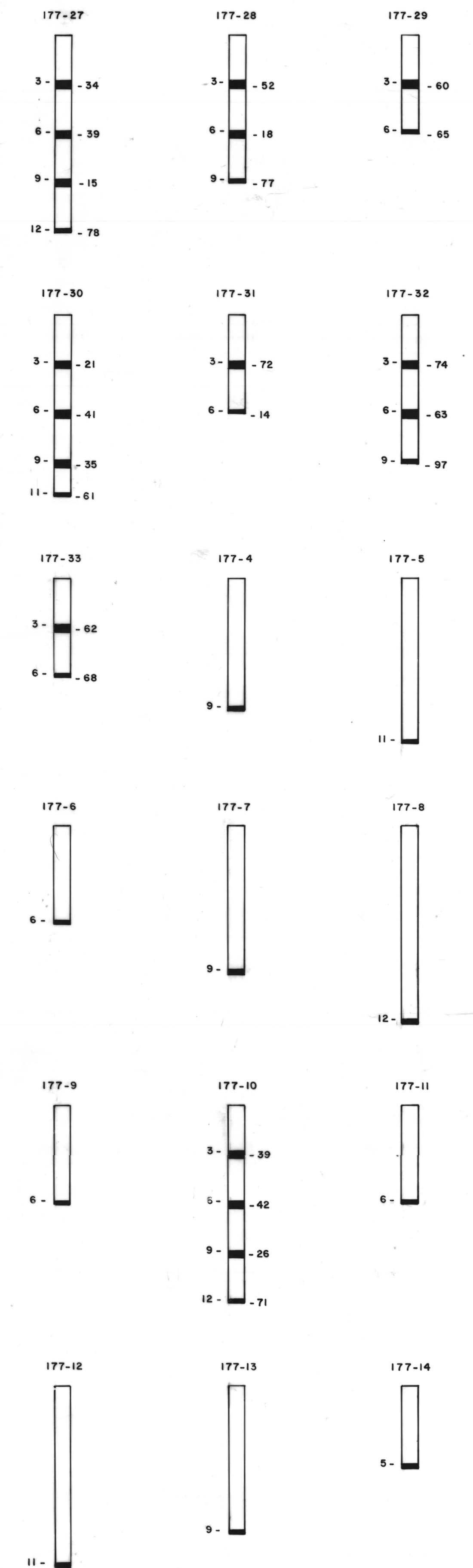


EXPLANATION



Core Samples



Estimated Peat Resources

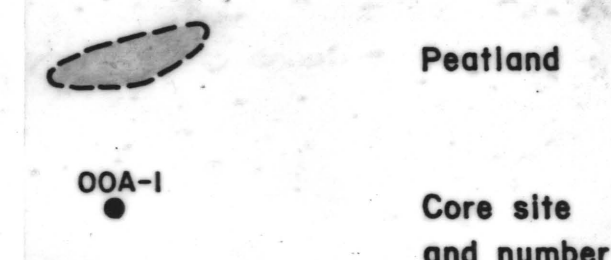
- Basics**
- 7 lb. peat/ft. moisture and ash free (MAF)
  - 9,732 BTU/lb. mean moisture and ash free BTU determined from analyzed cores of this study
  - 8.6 ft. mean peat depth determined from cores on this map

SECTION	R2W		R3W		R4W		R5W		R6W		R7W		R8W		R9W	
	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>	ACRES	TONS x 10 <sup>3</sup>
2	72	94.1	1	295	386.3	6	477	625.7	5	421	551.5	4	459	602.0	3	513
11	148	193.5	12	440	576.8	7	520	681.5	8	441	577.6	9	409	536.3	10	498
14	128	167.6	13	276	361.7	18	493	646.4	17	490	642.6	16	375	491.0	15	494
23	73	95.6	24	133	174.4	19	352	461.1	20	357	468.1	21	428	561.4	22	427
26	0	0	25	125	163.6	30	491	643.3	29	313	410.8	28	441	577.6	27	357
T23N 35	11	14.6	36	78	102.5	31	373	488.8	32	155	202.7	33	229	300.6	34	462
T22N 2	46	60.4	1	39	51.3	6	43	55.9	5	276	361.7	4	281	368.7	3	336
11	52	68.0	12	307	402.4	7	5	6.9	8	218	285.3	9	216	283.1	10	379
14	36	46.7	13	92	120.1	18	0	0	17	57	75.0	16	61	79.7	15	103

Total Acres Peat 15,399  
 Total Tons Peat, MAF 20,191 x 10<sup>3</sup>  
 Total Quads<sup>2</sup>, MAF 0.39

\*1 Quad = 10<sup>10</sup> BTU

Symbols



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 welcome suggestions that will improve the report.

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

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by  
 Rawlinson, S.E., Huck, R.W., and Hardy, S.B.  
 1982

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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=11) analyzed for ash has less than 25 percent ash and 11 percent has less than 17 percent ash. Thus, values for total tons and total Btu's of in-situ fuel-grade peat are approximately 11 percent of those values shown, or 2,221 x 10<sup>3</sup> and 4.3 x 10<sup>13</sup>, respectively; total quads is 0.043.

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; 13 percent of the total tons and total Btu's is 8,682 x 10<sup>3</sup> and 16.9 x 10<sup>13</sup>, respectively; total quads is 0.169.

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 Prepared for:  
 U.S. Department of Energy  
 Division of Fossil Energy  
 Grant No. DE-FG18-81FC05112