

File 115 g

Barnes Field Notes Coal

006616

July 28 1914

July 21st, 1952

4 cc

Spencer
gs
115 B
1159

C
O
P
Y
3 cc

COAL

EXTRACT FROM D. D. CAIRNS' FIELD NOTES

JULY 28th, 1914

Large seams of good clean lignite at least 6' thick near head of Sheep Creek. Several seams lignite - sampled 3' seam.

Rocks: Limestone - white grey, yellow and dark grey to black.

Near mouth of canyon interbedded with dark reddish weathering cherts. These overlying greenstones - Tertiary beds invariably above.

August 10th.

Went with Flint to see coal at extreme head of left fork of Burwash Creek. Here the Kenai beds are well exposed extending in a N.W. direction past head of main fork or right fork of Burwash or extending in N.E. direction down Granite Creek (tributary to Duke River). Kenai beds or Kenai trough or basin high up in mountains here $\frac{1}{2}$ mile to 4 to 5 miles wide on Granite Creek and extending north westerly along face of basalt mountain; at head of main Burwash maybe $\frac{1}{2}$ mile wide - 1 mile wide head of left fork.

Took sample coal from seam opened by Flint. Only place in vicinity where a seam stripped. Neither top nor bottom of seam seen. Top eroded away. Frost prevented digging down to footwall. $4\frac{1}{2}$ ' exposed. (sampled. see Sample A Page 33 1914 report). Went over there to basalt hill on left limit of Granite Creek. There the summit of the hill is composed of the newer volcanics lavas, amygdaloids, tuffs--same as seen last season in White River district--red black greyish, etc.

Occasional intercalated beds of sediments. One prominent greyish coarse sandstone bed about middle of lavas, perhaps 10' thick. Lavas 500' in thickness. Underlying lavas are 1200' - 1500' of Kenai beds--almost flat and little if at all disturbed. Splendid section seen in huge amphitheatre 1000' deep. Beds also extend to N.W. along face of lava hill. Beds consist of shales, clays, sands and gravels, only partly or loosely consolidated.

Black and greyish shales, yellowish and greyish sands and gravels. General series looks like ordinary unconsolidated Recent or Pleistocene sediments in distance.

Counted 12 coal seams 1' or more in thickness. There are probably more. They are distributed throughout beds from top to bottom of series and range from a few inches up to 5' in thickness. At least 30' of coal in sight in seams over 12" in thickness and probably at least 50'.

These Kenai beds extend to S.W. of Wade Creek* down towards Donjek River. Reported to reach river.

See Samples B. and C. Page 33 of 1914 report.

* Wade Creek also called Maple Creek.

On August 12th he examined Wade Creek, noticed the Kenai beds, but coal seams only thin; inch thickness.

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