

In the Lindholm mine, situated in this area, three coal layers are mined, with thicknesses of 3 feet 6 inches, 4 feet 1 inch, and 3 feet 2 inches, respectively. Four analyses of coals from this area gave the following results:

| | | | | |
|---------------------------|-----|-----|-----|--------|
| Volatile matter | 30% | 14% | 17% | 13.50% |
| Ash | 10 | 8 | 12 | 10.50 |
| Fixed carbon | 60 | 78 | 71 | 76.00 |
| Coke, coherent | | | | |

In the Podgorodninskoye and Vladimirskeye areas, six seams of coal are known; but only three are of workable thicknesses: the Matovy seam, 2 feet 1 inch; the Shuchainy, 3 feet 6 inches; and the Tolsty seam, 6 feet 9 inches thick. All these seams contain partings of barren rock.

The general strike of the series is N.E. with a dip towards the N.W. of 13° - 45° .

The reserve in the Podgorodninskoye mine is estimated to be 1,619,000 tons.

Analysis of the Podgorodninskoye coal: C., 61.35%; H., 3.42%; O.+N., 11.42%; S., 0.75%; ash, 22.51%; moisture, 0.55%; coke (coherent), 86.18%; volatile matter, 13.82%; calorific value, 5,723 cal.

A coal-bearing area, lying four to ten miles from Nadyejdinskaya station where the Adams mines are situated, is considered to be a continuation of the Syz'-Makariyevskoye and Podgorodninskoye areas. It extends over 28 square miles and contains not less than three workable seams, from 2 feet 1 inch to 3 feet 6 inches thick. The reserve is unknown.

The coal is semi-anthracite as shown in the following analyses:

Adams Mine.—C., 79.61%; H., 3.22%; O.+N., 3.46%; S., 0.47%; moisture, 0.86%; ash, 12.85%; volatile matter, 5.12%; coke, 94.78%; calorific value, 6,763 cal.

Coal from Kiparissoff siding (54th verst of the Ussuri railway). moisture, 0.46%; ash, 5.12-10.40%; coke, 91.94%; sulphur, 0.5-0.72%. coke is non-coherent.

In addition to the beds already described, traces of coal of Jurassic age have been found at the following localities:

(1) Near Nicolsk-Ussurisk, at Salnikoff mountain, six coaly beds were discovered. Only one layer, 3 feet 2 inches thick, is worthy of attention. It contains a total thickness of 1 foot 2 inches of partings.

An analysis of this coal showed: moisture and volatile matter, 23.2%; fixed carbon, 62%; ash, 14.8%; coke coherent.

(2) On the Rakovka river. (3) On the Suputinka river. (4) Near the village of Constantinovskaya, four and a half miles from the Chinese frontier. (5) Near Fadiyevskaya station. (6) Near Poltavekaya station. (7) Near the village of Novo-Vasilkovo in the valley of the Laboboga river.