GEOLOGICAL SURVEY OF CANADA.

Oil-shale bench.

Bituminous shale or oil-shale. This is a rather heavy brownishblack shale. The following analysis and remarks thereon, include both this bench and the stellarite.

The first series is taken from Mr. Hoyt's Report to the Acadia Coal Company for 1866. Analyses under the heading of No. 1 refer to stellarite, No. 2 to the oil-shale :---

WALLACE.*

Analyses for oil, etc.

	No. 1.	No. 2.
Volatile matters	68.38	38.69
Fixed carbon	22.35	8.26
A sh.	8.90	52.20
Sulphur	.05	.25
Moisture	.32	.60
	100.00	100.00
Specific gravity	1.079	1.568
Weight per cubic foot	671 lbs.	97 lbs.
Crude oil per ton	126 gallons.	63 gallons.
Gravity of oil	.844	.850
Coke, per cent	31.25	60.46
Ash in the coke of stellarite, 28.48 per cent		
	I'ENN	r.†
	No. 1.	No. 2.
Volatile matter	67.26	34.16
Fixed carbon	24.03	12.30
Ash	8.40	52.00
Sulphur	.11	.74
Water	.20	.80
	100.00	100 00
Specific gravity	1.069	1.612
Weight per cubic foot	66 3 lbs.	100 lbs
Crude oil per ton	123 gals	60% gals
Gravity of oil	.844	.850
		(nor ton)
QUANTITY OF OIL BY VARIOUS TRIALS.		(per ton.)
(1) Trial by J. De W. Spurr, St. John, New Bruns	wick, (No. 2)	
crude oil	• • • • • • • • • • • • • • • • • • • •	74 gals.
(2) " by J. Howarth, Boston, Mass., by steam pro	cess, crude oil.	65 "
(3) " by F. Macdonald, Portland, Maine, (No. 2), crude oil	50 "

Comparison with other oilcoals. For comparison, the following results from these and other oil-coals are introduced; the table is taken from How's Mineralogy of Nova Scotia:

* Prof. Wallace, of Glasgow, Scotland.

Prof. Penny, Andersonian University, Glasgow, Scotland.

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