

phyllum-like general appearance, but without detail. Their salient character appears to be the small size of the leaves which are "less than one-fourth of an inch long," and only measure 3mm in the illustration. Dawson's enlargement of a part of one leaf showing the veins, is reproduced by Matthew. I have not seen this original, nor found any other specimen which I could recognize as *Sphenophyllum*.

Potonié (1899 p. 183) remarks that *S. antiquum* of Dawson is very like *S. cuneifolium*, but is much smaller leaved.

SPHENOPHYLLUM (?) CUNEIFOLIUM (*Sternberg*) Zeiller.

- 1823. *Rotularia cuneifolia*, Sternberg Versuch, Fasc. 2, p. 33, pl. XXVI, figs. 4a, 4b.
- 1880. *Sphenophyllum cuneifolium*, Zeiller, Végét. foss. terr. houill. France, p. 30, pl. CLXI, figs. 1, 2.
- 1910. *Sphenophyllum gemma*, Matthew, Trans. Roy. Soc. Canada., ser 3, vol. 3, p. 96, pl. VI, fig. 7.
- 1910. *Sphenophyllum latum* and *S. latum* var. *minus*, Matthew, Trans. Roy. Soc. Canada, ser. 3, vol. 3, p. 95, pl. VI, figs. 5, 6.
- 1911. *Sphenophyllum cuneifolium*, Sternb. Jongmans, Anleit, Karbonpfl. West Europas, p. 377.

Jongmans (1911, p. 374) considers that it is probable that "*S. gemma*" of Matthew is *S. cuneifolium* v. *saxifragaefolium* Sternberg. With *S. Schlotheimii*, with which Matthew compares it, he thinks it has nothing to do. Of *S. latum* and *S. latum* var. *minus*, Matthew, Jongmans says they "gehören wahrscheinlich zu *S. cuneifolium* Sternberg," but they are really too fragmentary to make it worth while to enter into detailed identifications, though they are interesting, because any specimens of *Sphenophyllum* are so very rare in these deposits.

LYCOPODIALES.

LEPIDODENDRON sp. foliage twigs.

[= *Lycopodites Matthewi* Dawson].

- 1861. *Lycopodites Matthewi*, Dawson, Canad. Nat., vol. 6, p. 171, fig. 8.
- 1862. *Lycopodites Matthewi*, Dawson, Quart. Journ. Geol. Soc., vol. 18, p. 314.
- 1868. *Lycopodites Matthewi*, Dawson, Acadian Geol., Ed. 2, p. 542, fig. 188c.
- 1871. *Lycopodites Matthewi*, Dawson, Foss. Pl. Devon. Upp. Silur. Canada, Geol. Surv. Rep., p. 35, pl. VIII, figs. 85-87.
- 1910. *Lycopodites Matthewi*, Dawson, Matthew, Bull. Nat. Hist. Soc. New Brunswick, vol. 6, p. 248.