

3.5. Stop 5 – Farmstead Linshalmer (Geistthal)

Topic: Upper Cretaceous bituminous marls (“oil source rock”) and uplifted block of lower Devonian dolomites (“oil reservoir rock”).

Locality: “Linshalm road”, a small side road of state road L315 to Geistthal, 47°10'30"N/15°10'29"E.

Lithostratigraphy: St. Pankrazen Formation.

Biostratigraphy: –

Chronostratigraphic age: Upper Santonian to lower Campanian and Emsian.

Description: Dark brown bituminous marlstones with rare occurrences of very small gastropods and fish scales crop out along a road to the farmstead Linshalmer. According to RUSSEGGER et al. (1998) these marlstones were deposited in a temporary highly productive bituminous marl lake which was situated in near distance to the marine Gosau basin thus occasionally suffering alternatively from terrigenous influence and marine disturbances.

Approximately 100 metres to the north lower Devonian dolomites (Flösserkogel Fm. of the GP) are exposed at the road L315 to Geistthal. Bitumen on open joint planes of the dolomites indicate that these dolomites served as “oil reservoir rock” for bitumen emigrating from the bituminous marls (Fig. 15).

References: BOJAR et al. (2001), EBNER & RANTITSCH (2000), RUSSEGGER et al. (1998).

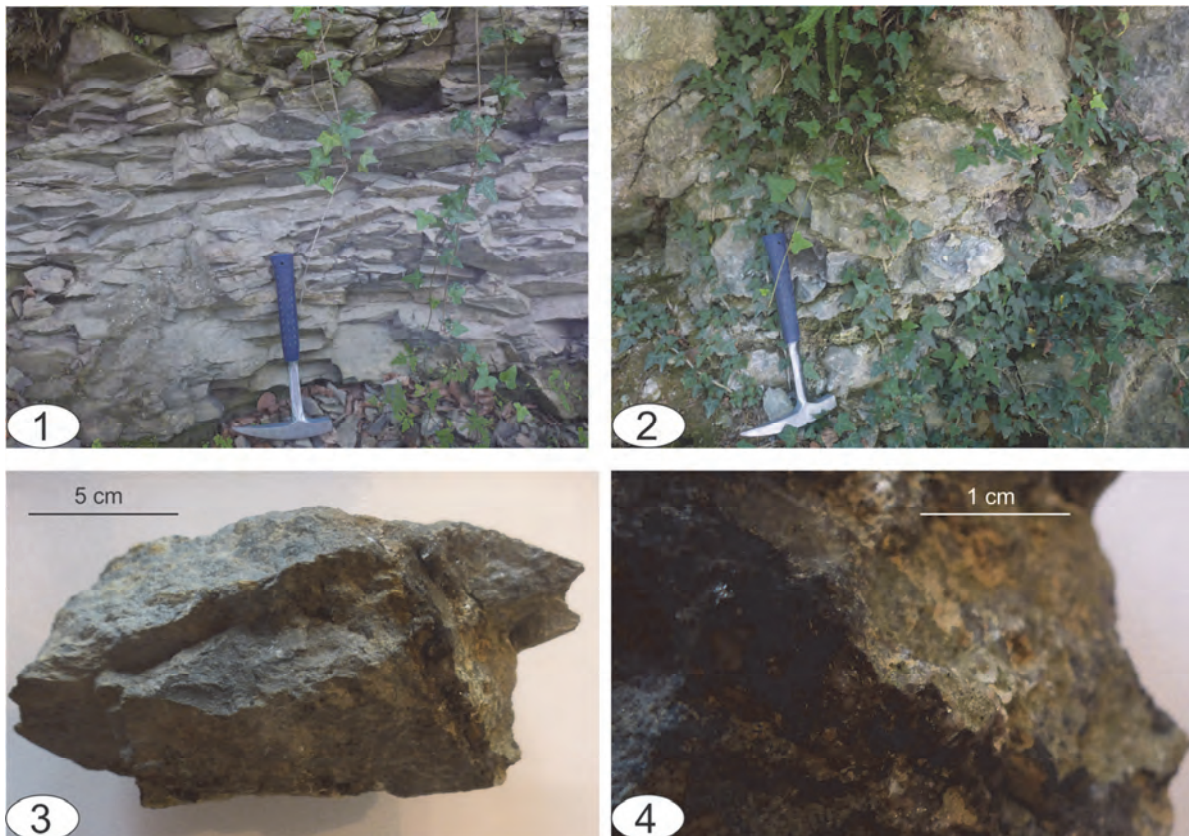


Fig. 15. 1) Dark brown bituminous marlstones of the St. Pankrazen Fm. at Linshalm road. Hammer for scale; 2) Lower Devonian dolomites (Flösserkogel Fm.) at road L315 to Geistthal; 3) Hand rock sample of the Devonian dolomite with bitumen on open joint plane; 4) Detail of 3).