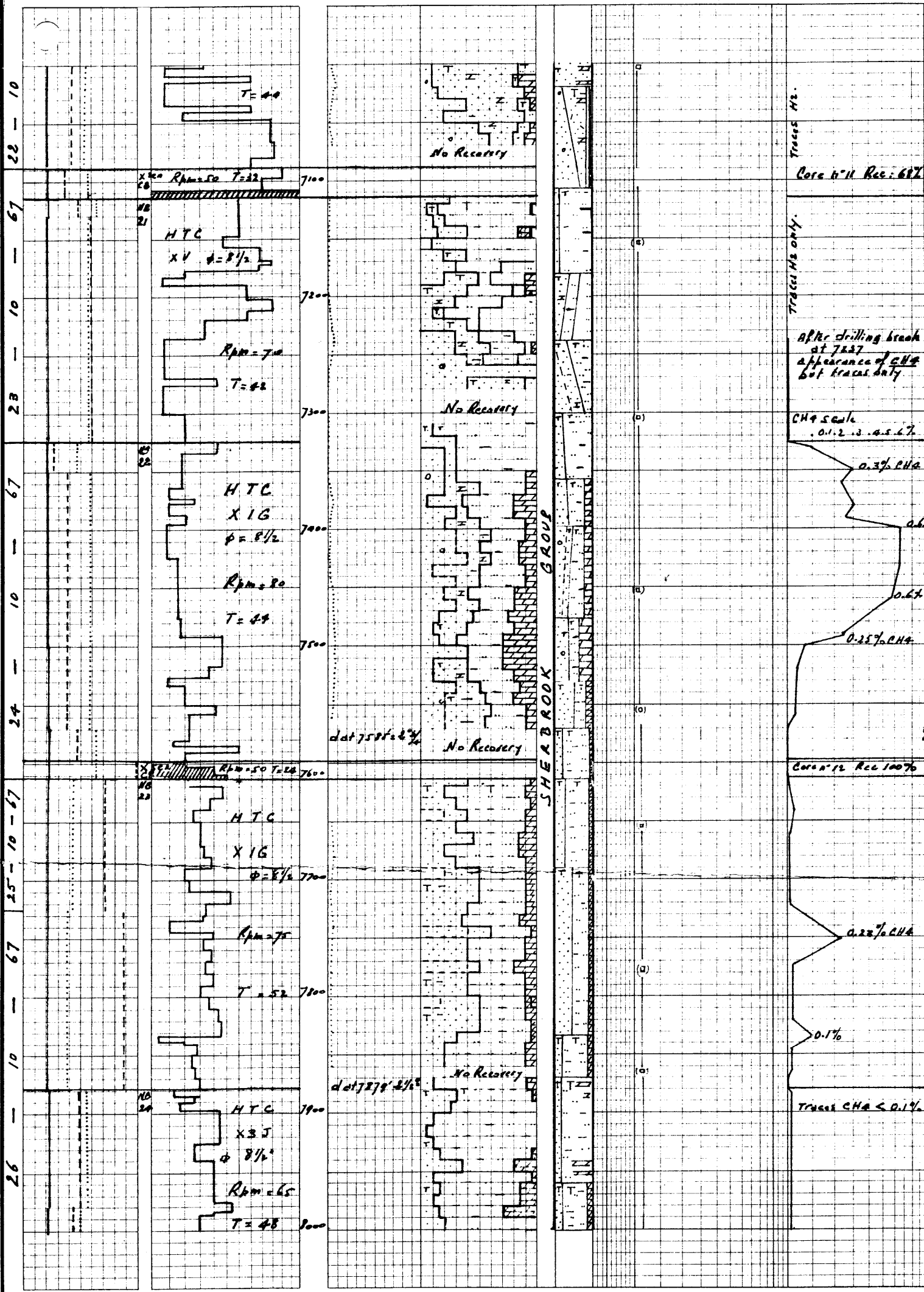


VOLUTA-1



Dol beige-brn buff, hd, compact, glc, pyr, with abundant angular quartz grain inclusions. If? - grades in part to Dol micro breccia, and dol qz sst.

Traces sylv, lone or aggrsst - isolated traces of Calcite, wh, pulverulent

7099 Core #11 7089' 7114' Recovered 17' Bottom 6' 74' siltst, dk gy, s, cl, grains of fld, qz, dk lithic, mic, pyr, carb. 7114' with qz sst, f, sst, wh, clean, in thin lenses. Grades into siltst, cl, carb, (s) laminated, burrowed. Contains calcite, dol, siltst layers.

Upper 11' 5" mainly qz sst with abundant thin lenses and laminae of siltst as above. Qz sst: lens, loc part sst, brown, wh, f, (loc) f. Sst (ang) - rad, high sph (mic), glc, carb with coal streaks, pyr, with lyr moduli. Sandstone part of core is extensively disrupted by microfaulting & contact between sst and siltst is 1" thick fault breccia. Bottom 6" of sst is reformed into calcite. Sst contains microcross bedding, current rill laminae & several burrows.

7114' - 7237' Siltst as in core #11, grading into cl, sst, sst to part, which is out, & into f, dk gy sst with cl matrix. Minor sst wh-buff f-f as in core #11.

7237' - 7280' Mainly f-f sst sst, dk, sst, matrix washing out, with minor beige-brn sst, f-cr (sst), set in a very abundant dol matrix, grading in part to Dol as above.

7280' - 7288' Interbedded and interminuted qz sst in part wh, f-f (loc m - ca), (hd) - (hd when cont calcite), sst, sst, (hor), C streaks, rare glc, (mic), set in wh cl matrix. Becomes f-f, - qz f-f sst with a very clayey matrix. Matrix partly washes out and qz coming up loose - in part brn beige, dol.

7288' - 7338' Siltst dk gy, friable - (hd) carb, cl, very thin, coal laminae (pyr) and lyr nodules, with weathered streaks (hd), with patches of f qz sst - grades in part into f-sst, cl sst. All elements are well lined.

7338' - 7350' Dol beige-brn buff, hd, compact, glc, pyr, with abundant qz inclusions. Grades into beige-brn dol qz sst - from 7350' becoming more abundant and more carb, until 7350'. Traces sylv - isolated traces of pulverulent Calcite.

7350' - 7612' Recovered 16' Siltst: 74' dk gy, dk, cl, mic, s carb, mic (pyr), locally burrowed. Finally interbedded throughout with irregular thin lensoid streaks (long to 2cm) or patches of qz sst, wh, (par), f-f seldom m sst, (rad), (ang), mod sph, wh cl cont occ ltrn dol cont, rare very thin lenses calc emt, sst, lined carb streaks (mic) - rare fine grains glc. Sst contains microcross bedding, few small load marks. Dis streaks of Dol, pyr, f-brn, xls, hd, s, probably ankeritic. Neither joints or microfaulting.

7612' - 7920' Interbedded and interminuted qz sst wh, f-f rare m as in core #12, wh cl cont, loc calc-dol emt, becomes qz sst, cl grades into siltst, matrix partly washed out. qz dol sst: traces only. Siltst gy - dk gy, as in core #12, become between 7670 and 7920 very sandy, grades in part. Boundaries between the f-f sst and the siltstone are not very well defined: each grades into the other. Dol streaks throughout the section. Traces calcite - At 7810 limestone brn, xls, hard compact.

7920' - 7960' : Siltstone grades to sst. qcc lithic grains and red grain (zeolite?)

Between 7960' and 9000' : small porous tags of qz sst, wh, (possibly) pale green coloration: (chilrite?) - siltst less sandy than above.