

THE BROKEN HILL PROPRIETARY CO. LTD.

OIL AND GAS DIVISION
(HEMATITE PETROLEUM PTY. LTD.)

CORE DESCRIPTION

Core No. 1 (pg 1)

WELL: Pelican - 4

Interval Cored 9325 - 9366.5 ft.* Cut 41.5 ft., Recovered 41.5 ft., (100%) Fm. E.V.C.M.

Bit Type C-20, Bit Size 8 ¹⁵/₃₂ in., Desc. by B.N. Atkins Date 3/2/79.

Depth & Coring Rate (min./ft.)	Graphic (1" = 5')	Shows	Interval (ft.)	Descriptive Lithology
9325		Mod. odour	9325' - 9326'	Sst v.H. gy. mod firm - friable, massive, med, clean, qtzose, v.f. specks of carb. mat. and feldspars. Well std.
9330		Mod. odour	9326' - 9330'4"	Sst dolomitic, lt. - mid gy, v. hard, massive, mainly med, minor fine well std, clean qtzose, v. tight with dolomitic cement. Indistinct flat bedding in places defined by different grain size or v. thin discontinuous carb. laminae.
9335			9330'4" - 9337'	Sst, v.f. grading to and interbedded with siltst. Mid to dk gy, esp. towards base. Mod. firm. Becomes finer downwards to underlying sh. Indistinct bedding, wavy, subll, av. flat. Mostly laminar bedding, some v. small scale ripple x-bedding. Minor contorted bedding, flaser structures and slumping at sst/siltst interbeds. Common thin, wispy coal, ab. plant fossils, burrows ll. to bedding. Strongly bioturbated at base.
9340		Mod. odour	9337' - 9339'10"	Sh, v. dk gy - blk, non- to sub-fissile, silty in part. Rare thin coal stringers (2mm). Abrupt basal contact.
9345		Mod. odour	9339'10" - 9341'	Siltst. bn, f. - med, lithic, ab. carb. mat. increasing ↑. Bioturbated
9350		Mod. odour	9341' - 9344'10"	Siltst, v. dk gy - blk, firm, minor v. thin (< 1cm) discontinuous v.f. sst beds - lt gy - bn. Bedding up to 5° from flat. Burrows, rare towards top, more abundant towards base. Bioturbated. V. abrupt basal contact, sl. undulose.
9355		Mod. odour	9344'10" - 9346'7"	Sst - lt. bn, f. - med, mod. std, massive, common wispy, discontinuous carb. laminae. Bedding up to 5°. Common bioturbation. Abrupt base.
9360		Mod. odour	9346'7" - 9349'	Siltst - v. dk gy - blk as above (9341' - 9344'10"). Mid. gy towards base.
9365		Mod. odour	9349' - 9350'	Sst - lt bn as above (9344'10" - 9346'7") Abrupt sl. undulose base.
			9350' - 9353'	Sh - dk gy, non fissile at top to subfissile at transition to siltst. Minor thin (< 2cm) interbeds of v.f. sst and coal disrupted.
			9353' - 9354'	Siltst - lt - mid gy becoming lighter with depth as it grades to sst. Firm. Wavy interbeds with sst, < 5°. Common bioturbation & contorted bedding.
		Faint to Moderate odour	9354' - 9362'	Sst - lt bn - gy, v.f. - f. at top with siltst. laminae. Minor scouring at base of sst. beds. Minor carb. mat. Grades to med, mod. firm, massive, minor coaly laminae. marking bedding < 5°. Local dip up to 20° (? x-bedding). Mod. clean, qtzose, minor lithics. Well std. Sst./Siltst interbeds at base. Minor ripple x-bedding. V. abrupt contact with underlying siltst.
			9362' - 9366'6"	Siltst/Sst interbeds. Sst - lt bn - gy, v.f. - med, beds up to 5cm. common ripple x-bedding. Generally abrupt undulose contacts with siltst - mid - dk gy, laminae bedded. Rare burrows. Mainly siltst in bottom 8".

REMARKS:

(Cont. pg. 2)

While recovering the core gas was observed popping from some intervals. Fluorescence was observed from coals and carbonate cement. Very slight fluorescence was observed on cut from sand samples.

* NOTE: THESE DEPTHS HAVE SUBSEQUENTLY BEEN ADJUSTED DOWN

12 ft (i.e. 9337' - 9378'6") TO MATCH LOGS.