PALYNOLOGICAL REPORT ON

CBM-93-001,

PEDIRKA BASIN

FOR: Central Petroleum Ltd

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RESULTS

Palynological analysis was undertaken on one cuttings samples and five core samples from CBM-93-001.

Standard preparation techniques were used to recover palynomorphs including HF maceration, $ZnBr_2$ heavy liquid separation, 10 micron filtration and oxidation with Schulz Solution where there was sufficient organic matter. A kerogen slide and oxidised/filtered palynological slides were prepared where possible.

The palynological slide was examined and counted using semi-quantitative methods in which only a representative number of specimens of common species is counted. The kerogen slides were scanned for the presence of rare species. The zonation follows Backhouse (1991).

Palynological Subdivision

DEPTH (m)	PALYNOLOGY ZONE	AGE	REMARKS
728.66	*P. sinuosus*	Early Permian	Equivalent to Stage U4a. Occurrences of *M. trisina*, *D. aules* and *P. sinuosus* and the absence of younger species.
775.00	*P. sinuosus*		
779.07	*P. sinuosus*		
853.39-854.04	*P. sinuosus*		
1006.22-1006.52	Indeterminate		Lean sample
1185-1190	*S. fusus – M. trisinus*		Equivalent to Stage L4-3a. Occurrences of *P. pseudoreticulata*, *M. tentula* and ?*Florinites eremius*, and an absence of *P. sinuousus* and any older species suggests the correlation.

Environment Subdivision

DEPTH (m)	ENVIRONMENT OF DEPOSITION	REMARKS
728.66	Non-marine	Rare fresh water acritarchs (leiospheres, *Peltacystia* sp., *Circulisporis* sp. and *Tasmanites* sp.) suggests a lacustrine setting.
775.00		
779.07		
853.39-854.04		
1006.22-1006.52		
1185-1190		

REFERENCES

Backhouse, J. 1991, Permian Palynostratigraphy of the Collie Basin, Western Australia, Rev. Palaeobot., Palynol., 67:237-314/