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Report on 57 subsurface drill cuttings and core samples from Ellen YT-C-24, Socony Mobil-Western Minerals, north Eagle Plain Map-area (NTS 116E).

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Western Paleontology Section, Calgary, for possible revision.

<u>Stratigraphy & Footage</u>	<u>Locality, Microfauna & Age</u>	<u>GSC. Loc. No.</u>
	All samples are from <u>Ellen YT-C-24</u> 66°38'8.87"N.; 137°50'8.15"W.	
4,861 to 4,865 feet (core)	conodont fragments, few pyrite balls, very abundant age: Late Paleozoic	C-13017
5,225 to 5,229 feet (core)	late Paleozoic megaspores, common (P I C var. sp. 1) pyrite balls and "grape shot", common	C-13018
5,451 to 5,456 feet (core)	late Paleozoic megaspores, few (P II B rear. sp. 2, P I C var. sp. 1) pyrite balls, very abundant	C-13019
5,600 to 5,640 feet (3 cutting samples)	recycled microfossils from uphole Cretaceous strata: <i>Dictyometra</i> sp., few <i>Haplophragmoides</i> sp., few <i>Bathysiphon</i> sp., few possibly <i>in situ</i> : <i>Ammodiscus</i> ex gr. <i>A. bradynus</i> (Spandel), few <i>Hyperammina</i> ex gr. <i>H. clavacoidea</i> Scherp, few age: late Paleozoic	C-13020 to C-13022
5,660 to 5,860 feet (11 cutting samples)	<i>Hyperammina</i> ex gr. <i>H. elegantissima</i> Plummer, fide Crespin, 1958, common to very abundant <i>Ammodiscus</i> ex gr. <i>A. bradynus</i> (Spandel) common recycled Cretaceous microfossils are also present age: as above	C-13023 to C-13033
5,880 to 5,900 feet (2 cutting samples)	<i>Ammodiscus</i> sp. and <i>Hyperammina</i> sp. as above with increase in recycled Cretaceous microfossils	C-13034 to C-13035
5,920 to 5,960 feet (3 cutting samples)	diastem indicated by abundant pyrite balls, coproliths, some plant remains and iron staining	C-13036 to C-13038

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Stratigraphy & Footage	Locality, Microfauna & Age	GSC. Loc. No.
5,980 to 6,200 feet (12 cuttings and 1 core sample)	conodont fragments, common to abundant echinoid spines, few sponge triaxons, few <i>Hyperammia</i> n. sp., few	C-13039 to C-13051
6,220 to 6,470 feet (15 cuttings and 1 core sample)	conodont fragments : ?n. spp., common productid spines, few sponge axons, few echinoid spines, common <i>Hyperammia</i> sp., few megaspores, late Paleozoic types II B var. sp. 2, common II A var. sp. 4, common age: the noticeable microfossil change may indicate an older assemblage represented by Carboniferous-like carbonized megaspores	C-13052 to C-13067
6,646 to 6,651 feet (1 core and 1 cutting sample)	?Siliceous Foraminifera ? <i>Brunsia</i> sp., few pyritized wood, common pyrite balls, very abundant pyrite discs, abundant megaspores, late Paleozoic: types: II B var. sp. 2, common I C var. sp. 1, common "Triletes" spp., common age: late Paleozoic, ?Carboniferous undifferentiated	C-13068 to C-13069
6,900 to 6,940 (3 cutting samples)	<i>Sacculinella</i> ex gr. <i>S. australae</i> Crespini, few ?Endothyranella sp., rare echinoid spines, few conodont fragments, few age: late Paleozoic, ?Carboniferous	C-13070 to C-13072
7,125 feet (1 core sample)	pyritized wood, common ?siliceous Foraminifera (<i>Glomospirella</i> sp.) few megaspores: "Triletes" spp., few age: Paleozoic, undifferentiated	C-13073

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