

STRATIGRAPHIC SUMMARY
CAPE SORELL NO. 1

AGE	ENVIR.	DEPTH (FT.)	LITHOLOGY	DESCRIPTION	SHOW	RESER.	SOURCE
EARLY MIOCENE	OUTER SUBLITTORAL		KB 72' WD 309'	LIMESTONE: REEFAL, CRINIDS, SHELL FRAGMENTS AND MICROFOSSILS; AND LIMESTONE, ARGILLACEOUS, GLAUCONITIC, HARD.			
		990	1000	SANDSTONE: FINE, SUBANG-SUBRND, MICACEOUS; WITH INTERBD SHALE, RED-BRN, SOFT; AND SILTSTONE, SOFT, CALCAREOUS.			
		LATE OLIG. 1230 EARLY OLIG. 1330					
MIDDLE EOCENE	MID-OUTER SUBLITTORAL			SANDSTONE: FINE-MED GRAIN, SUBANG-SUBRND, DOMINATELY CLEAR QUARTZ.			
			2000	INTERBEDDED MUDSTONE: DARK BRN-BRN BLK, SOFT, CALC, GRADES TO LIMESTONE, DK BRN, ARGILLACEOUS, SILTY, AND SANDSTONE.			
			2550	MUDSTONE, BECOMES DK GRAY, LESS CALC.			
EARLY EOCENE	INNER TO MIDDLE SUBLITTORAL			TRACE COAL.			
			3000	SANDSTONE: FINE-CSE, SUBANG-SUBRND, QUARTZ, WITH INTERBD MUDSTONE: DK GY, LESS SILTY/SANDY, NON CALC.			FAIR-GOOD ♂
			4000	MUDSTONE AS ABOVE, AND SHALE: V DK GRAY, SILTY, FIRM-HARD, SUBFISSE, NON-CALC, TR. COAL.			FAIR ♂
PALEOCENE	BRACKISH LITTORAL-INNER SUBLITTORAL			SANDSTONE: CLEAR-WHITE, F-CSE, POORLY SORTED, SUBANG-SUBRND, SILTY IN PT; SILTSTONE, GY-BRN, SDY, CALC, HARD; AND MUDSTONE: GY, SILTY, CALC, HARD.			POOR-FAIR ♂
		5715	6000	MUDSTONE: GY-BRN, SILTY & SANDY, SFT-FIRM, GRADES TO SILTSTONE: LT. GY, F-CSE, ANG-RND, POORLY SORTED (CHANNEL FILL.)			POOR ♂
		6305		SANDSTONE: LT GY-GRN GY, FINE-MED, MOD SRTE, KOALINITIC & CHLORITIC, COMMON LITH FRAGS WITH SOME INTERBD SILTSTONE; DK BRN, SDY, FIRM.			FAIR-POOR ♂
PALEOCENE ? (BARREN ZONE)	SUPRA LITTORAL TO BRACKISH LITTORAL			SANDSTONE: LT GY-LT GRN GY, F-M, OCC CSE, POORLY SORTED, ANG-SUBRND, DOM QTZ, TR LITH FRAGS INCL MAFIC VOLCS, TR KOALINITE & CHLORITE, CALC. (VERY "SILTY" APPEARANCE ON GR)			V. POOR ♂
		7170	8000	SANDSTONE AS ABOVE, LITHIC FRAGS BECOME COMMON TO PREDOMINATE.			NIL TO V. POOR ♂
			9000	CONGLOMERATE AND CONGL SANDSTONE, F-VGG, V POORLY SORTED SHARP-ANG, CSE SD-PBL SIZE FRAGS OF QTZ-MICA SCHIST, WITH ACID VOLCS AND QTZ, VAR ABUND KAOLIN, CHLORITE.			GENERALLY TIGHT CONGLOMERATE
LATE CRETACEOUS (MAESTRICHIAN)	BRACKISH-INNER SUBLITTORAL			SHALE: DK BRN, MOD HD & FISL, GRDS TO SHALE, DK GY-BRN, SILTY, SL-V CARB, TR COAL LAM, CRUSH CUT FLUOR, WITH INTERBD SANDSTONE, GY-GY BRN, VF-M, FRI, ABUND KAOLIN & CHLORIT GRNS, INTERBD THIN COALS, BLK, VITREOUS, CONCOID FRAC. 10,200' - 10,750'.	● TR. FREE OIL		TOC 3.97 Ro. 46 Ro. 47 TOC 3.93 TOC 4.46 Ro. 54 TOC 1.14
		10,165	11,000	SANDSTONE AND CONGL SANDSTONE: SHARP FRAGS OF QTZITE, QTZ-CHLORITE-SERICITE SCHIST, CHALCEDONY, MICOPYRITIC AGGREGATES, OCC GARNETIFEROUS QTZ, GNEISSIC, SHALE, DK BRN A/A	● TR-G. STRM. GOLD BRN. FLUORESCENCE ● TR-FREE OIL, G. CRUSH CUT FROM SH.		TIGHT TO POOR POR GENERALLY TIGHT CONGLOMERATE
	FLUVIAL TO SUPRA LITTORAL						
		12,000	TD 11,576'				



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