CF75 0640

Amoco Production Company

(6)

Surface Log

Name UPPER LITTLE NELCHINA RIVER

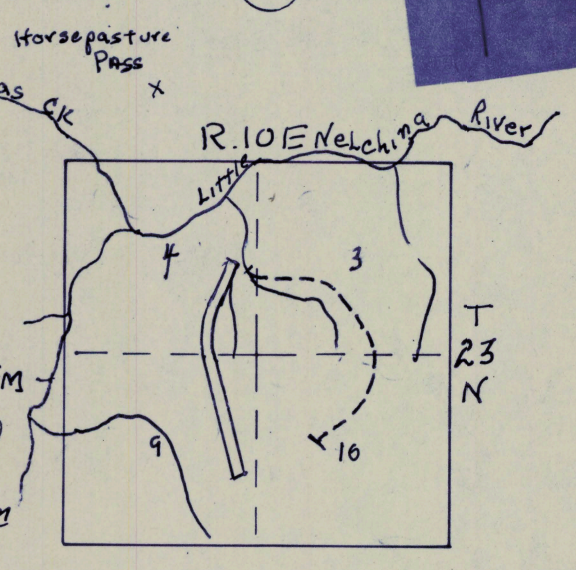
COUNTY TALKEETNA MTNS (A-2) STATE ALASKA

LOCATION E/2 SE Sec 4, E/2 NE, NE SE Sec. 9 TWN 23N RNG 10E, SM

MEASURED BY Arthur Grantz, USGS DATE 1953

INTERVAL LOWER CRET-NELCHINA FM & UPPER JUR-NAKNEK FM

REMARKS Section No. 6 USGS Open File Rept, A. Grantz (1953) Replotted to 1" = 100'. The Nelchina Ls & Jurassic Shales were sptd immed. to east of this sect^n on Aug 3 & 5, 1974, Project 74-16. (D. Powell, D. Loney, & G. Streeton - see Dashed Line of Traverse on Loc. map)



PLOTTED: 2-1-75 BY: JDP

PERIODS (SYSTEMS)	EPOCHS (SERIES)	GROUP OR FORMATION	MEMBER	AGES (STAGES)	FOSSILS	CORES	SHOWS	DEPTH	LITHOLOGY	POROSITY	SAMPLES	DESCRIPTION
CRETACEOUS	LOWER CRET.	NELCHINA FORMATION		VALANGINIAN			OIL ODOR					45' SS, lt. olive-gy, fg, glauc, thin-bd in up. pt, thick-bd & wave rippled in lower pt. (Oil odor on fresh breaks)
												50' Sh, dk gy, soft
					Belemnopsis cf Mes. Loc 24183			100				Ls, v. lt gy, fg, mass, cliff former, sdy, composed of comminuted molluscan shells, strongly wave-rippled, a few widely spaced sltst ptgs. Emits fetid odor when struck.
							OIL ODOR	200			CR-92L 1.3% φ <.05 mds	130' [Ls, gy, blu-gy to lt gy, wxs bro-yell in pt. v f-fg sdy, mass cliff-former. Thin beds indicated by fe stn lamina (1-2" apart) s/wave ripples Oil odor on fresh break. Total Ls est. a 150'+ thickness]
												CVD, believed to be Ls aa
												45' Est base of Ls.
								300				Float indicates the poss. occur. of soft sdy sh which may carry the Aucella (Buchia) piochii bearing Concs. Found in the float at and below this interval. This interval may be up. Jur-Naknek fm or it may be lower Cretac-Nelchina (Lower pt) fm. bearing reworked Upper Naknek fm. Concs. The Concs may also have come from the beds overlying the Nelchina fm.
					Aucella piochii Gabb, from concs. in float							190'
				KIMMERIDGIAN				400				
								500				50' SS, fg, arkosic
					Aucella rugosa (Fischer) Aucella mosquensis (Von Buch)							30 SS, fg, arkosic w/ sltst interbds.
												10' Int. bd sltst & fg ss
					Mes. Loc 24164 Aucella rugosa (Fischer) Aucella mosquensis (Von Buch)			600				45' Sltst, thick bedd
												20' SS fg, shelly & mg. arkosic ss
			MIDDLE					700				105' Sltst. mass.
					Mes. Loc. 24163							35' SS, cg & mg, arkosic
												Erosional disconf
					Mes. Loc. 24162			800				55' Sltst, v/dk grn-gy, pred. med-bd s/thin & med Ls lentils, Ls concs, and v/thin layers of arkosic ss
												40' Sltst, dk grn-gy, mass, moderately fossil.
												20' Sltst, dk grn-gy, thick-bd w/ many thin & med. bd Ls lentils.
				LOWER KIMMERIDGIAN	Mes. Loc 24161 Amosboceras? sp Aucella cf. A. bronni (Rouiller)			900				Sltst, dk grn-gy, pred thick-bd w/ thin arkosic ss interbds. Inc. a 5' congl'ic arkose bed w/ intfm'l sltst frags & rd'd granitic pebbles & cobbles. (Poss lateral equiv. of thicker cgl. unit.
												95
								1000				Sltst, dk grn-gy, pred. thick-bd'd w/ thin & med. Ls lentils, beds and concs. Also a few thin beds of arkosic ss.
												90'
								1100				Sltst, dk grn-gy, pred. thick bed. w/ numerous bd'd oblate med Ls concs an long med-bdd Ls lentils
												100'
												15' Sltst aa, w/ few thin & med. bds of gy, mg & cg ark. ss
					Mes. Loc 24160			1200				75' Sltst, dk gy, thick-bdd
												15' Sltst aa w/ few thin beds of gy f-mg ark. ss
								1300				50' Sltst, dk gy, pred. thick-bd'd w/ few large Ls concs.
				UPPER OXFORDIAN	Mes. Loc. 24159 Aucella bronni (Rouiller)							
								1400				125' Sltst aa w/ med & large oblate Ls concs, also thin & few med beds of gy on olive gy f-mg arkosic ss.
												CONCEALED
								1500				
								1600				
								1700				
								1800				
								1900				
								2000				