Amoco Production Company

Surface Log

Name Bear Lake

AREA OR QUAD Port Moller (D-1) 1:63,360 STATE Alaska

LOCATION Ridge SE of Bear Lake Sec. 19 TWN 49S RNG 70W

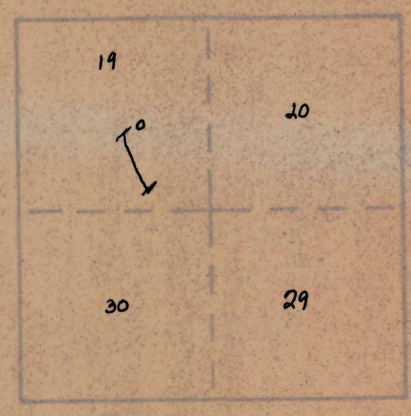
MEASURED BY Wm. Connelly, L. Smirnoff, G. Brown DATE 5&11 Aug 77

INTERVAL Bear Lake Fm.

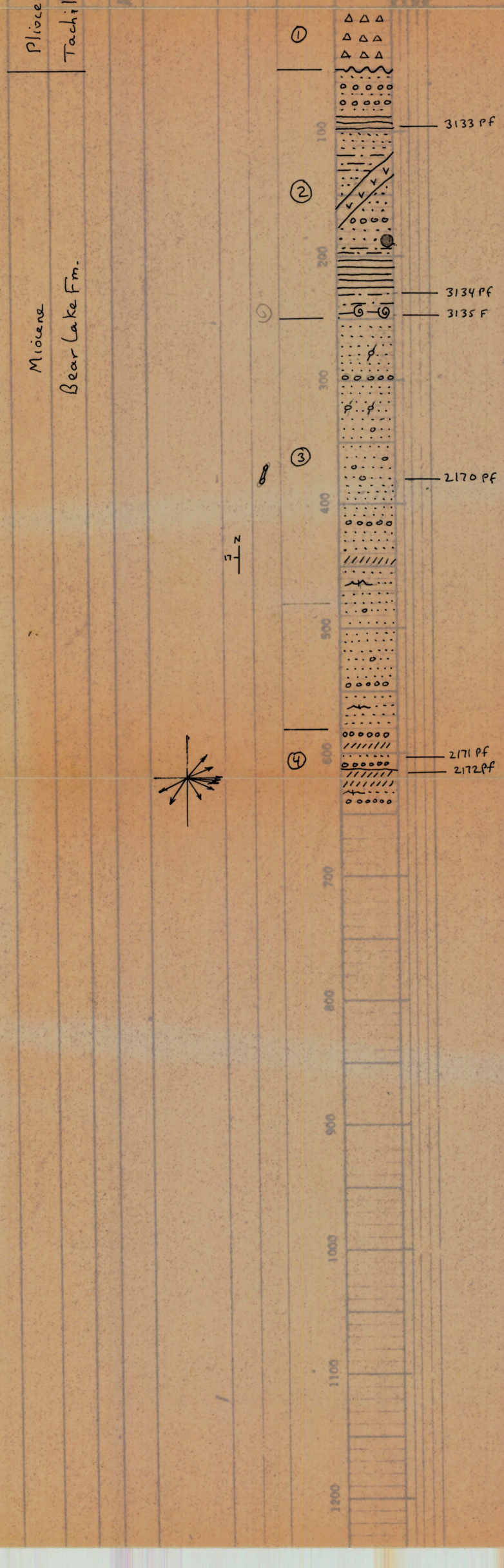
REMARKS Horrible section: bad weather, steep cliffs, poor exposure, inaccessible intervals. Start almost to Tachilni Fm, finish at vertical cliffs, measured down section.

LOCATION 55° 55' N 160° 09' W

PLOTTED BY Wm. Connelly DATE 15 Aug 77



PERIODS: Pliocene | EPOCHS: Miocene | Tachilni Fm. | Bear Lake Fm. | MEMBER | AGES (Diagnostic Fossils) | Corrected x-beds paleocurrent | FOSSILS | CORES | SHOWS | DEPTH | LITHOLOGY | POROSITY | PERM | SAMPLES | DESCRIPTION



① Tachilni Fm. Agglomerate with muddy matrix, possibly lahar deposits.

② Congl., gray, pebble, mainly volc.; interbedded with ss, tan, cgn., subangular, poorly sorted, mainly volc. clasts with coalified logs up to 3-4'. Underlain by interbedded ss & sh. ss is gray, f to m gn., subangular, poor sort, mainly volc. fragments. 3135 locality is siltstn w/ many broken shell fragments, including pectens, clams, gastropods.

③ Mainly ss with minor pebble congl. ss is yellow-gray, f to c gn, subangular, poor sort, weathered, iron stains, many suspended pebbles and granules. Minor coalified wood fragments, local horizons of broken shells.

ss is thin to med. bedded, gray-buff, m to c gn, subrounded, mod. well sorted, abt gtz and felds (~40% gtz), poorly cemented with cc, fair to good porosity, local lg. x-beds.

④ Mainly ss with thin congl. interlayers. ss is gray, med to c gn, v. poor sort, subangular, felds and volc. clasts, many pebble lags; many lg. scale x-beds.