Amoco Production Company

Surface Log

Name NE Veniaminof Mnt

AREA OR QUAD Chignik B-4 1:631360 STATE Alaska

LOCATION Sec. 6 TWN 45S RNG 63W

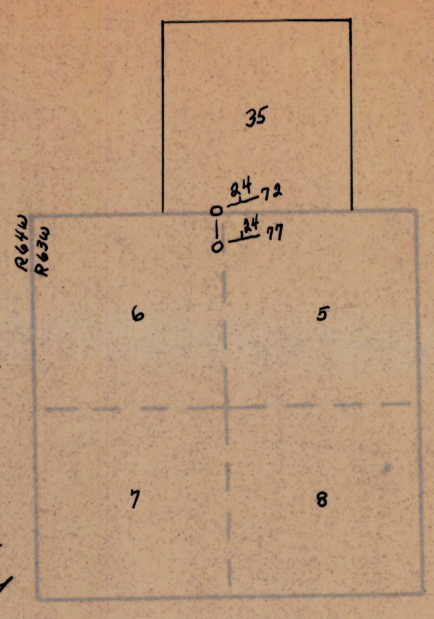
MEASURED BY L. Smirnov, B. Connelly DATE 8/24/77

INTERVAL Tachilni Fm.

REMARKS The beginning of the section at the elevation 1100' at the top of ridge, the end – at the bottom of valley Measured down section

LOCATION 56°19' N 159°10' W

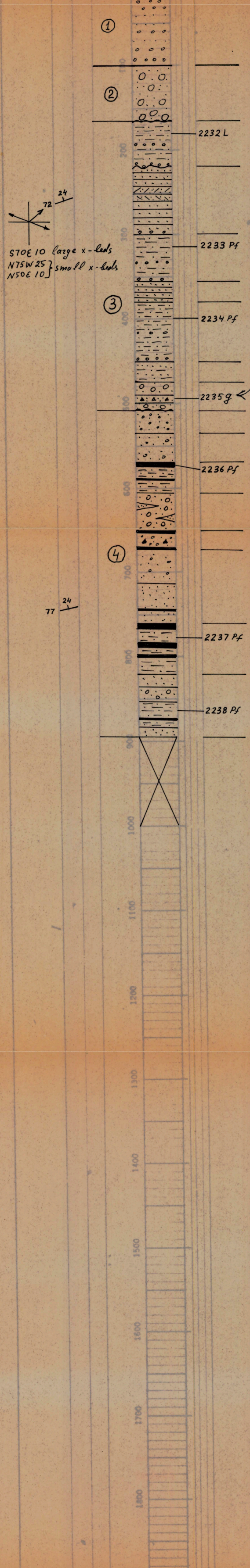
PLOTTED BY L. Smirnov DATE 8/26/77



PERIODS | EPOCHS | GROUP or FM. | MEMBER | AGES (Stages) | FOSSILS | GASES | SHOWS | DEPTH | LITHOLOGY | POROSITY PERM | SAMPLES | DESCRIPTION

Pliocene

Tachilni Fm



ss and conglomerates as below (?), observation from helicopter

Conglomerates, boulder size, volcanic clasts, volcanic ss as matrix. Erosinal lower contact.

Siltstone, white, ironstained, poorly sorted, porous, local conglomerate lenses up to 1' thick.

Ss, yellowish, f-g, well sorted, subrounded, quartzeous with heavy minerals, poorly cemented, very porous, parallel lamination, small x-beds: scour-and-fill structures, herring-bone, looks like beach deposits.

Siltstone as above with tiny coalified wood fragments and abundant muscovite. Thin conglomerate interlayers.

Ss as above

Siltstone as above

15.9 my BP Too old: see text

Interbedded ss and siltstone as above

Conglomerate as above (up to couble size). Interbed of gray felsic tuff with hornblende

Conglomerate pebble size, volcanic clasts, polymictic matrix

Ss, conglomeratic, yellow-gray, well rounded, poorly sorted, polymictic, fair porosity

Siltstone, coarser than above, with coal and coaly shale interbeds up to 2' thick

Conglomerate, pebble size with many lenses of carbonaceous ss, c-g, poorly sorted, polymictic, poorly cemented, fair porosity. Interval looks like fluvial.

ss, conglomeratic, tuffaceious with hornblende with coal interbeds up to 2' thick at the top and the bottom.

Interbedded: conglomeratic ss, ss, thin coal interbeds as above

Siltstone, gray with several coal interbeds up to 2' thick.

Interbedded: ss, light-brown, m-g, subrounded, sorted, arcosic with heavy minerals, poorly cemented, good porosity; conglomerate and siltstone as above; single coal interbed up to 1' thick.

Covered interval.

Summary: Unit 3 (& probably 1) composed mainly of sorted quartzous ss and white siltstones and looks like beach and shallowest marine deposits.

Unit 4 composed mainly of polymictic conglomerates and ss, siltstone and coal and looks like fluvial and lagoonal-tidal flat deposits.

There is general transgression (?) from fluvial-lagoonal (unit 4) to beach-marine (unit 3) environments. X-beds suggest NE dip of paleoslope (not enough measurements). Evidence of volcanism along all section. Section was done very quickly because of bad weather.