Amoco Production Company

Surface Log

Name Kitchen Anchorage

AREA OR QUAD Cold Bay **STATE** Alaska

LOCATION coast line of **Sec.** 35 **TWN** 58S **RNG** 85W

MEASURED BY Brown, Williams, Smirnov **DATE** 16 JUNE 77

INTERVAL Belkofski

REMARKS Measured in the proximity of the previous Amoco Belkofski Bay -201 section. Section consists of horizontal bedded units of massive ss & tuffaceous breccia capped by andesitic flows and intruded by continuous vertical dikes.

LOCATION 55° 06' N 162° 08' W

PLOTTED BY L.G. Brown **DATE** 16 JUNE 77

PERIODS	EPOCHS	GROUP or FORM.	MEMBER	AGES (Ma)	FOSSILS	CORES	SHOWS	DEPTH	LITHOLOGY	POROSITY	SAMPLES	DESCRIPTION

Tertiary

Oligocene - Eocene ?

Belkofski

Top of the Section
(The highest outcrop at the top of the hill)

UNIT 1 — Andesite flow, massive, highly jointed

UNIT 2 — Green tuffaceous volcaniclastic breccia. Highly altered, similar to greenstone. Cut by vertical dark gray aphanoxiline intrusive dike the entire 1400' of section. Carbonaceous log at the bottom of the unit

omit

315' - AP5020Pf — Gray silty mudstone, fissile, included as lens in granular tuffaceous breccias. Numerous carbonaceous inclusions. Altered & silicified

365' - AP5021PP — Green crse sandstone, angular, poorly sorted, low porosity massive, interbedded with tuffaceous breccias

UNIT 3 — Gray medium sandstone, rounded, mod-sorted, massive, sandwiched on both sides by tuffaceous micro breccia

Gray fine-med sandstone, angular, mod-sorted poor porosity, fissile otherwise massive

635' - AP5022PP — Gray granular breccia, tuffaceous, very angular, extremely poorly sorted, very well indurated, no porosity

UNIT 4 — Gray fine-med sandstone, sub-angular, mod-sorted low-fair porosity, laminated, iron stains. Highly sheared gouge with boudinage structure in the vicinity of the vertical andesite dike.

800' AP5023PP — Gray-green tuffaceous breccia. Included thin interbeds of med-crse ss, ang, p sorting. low porosity

Gray-green fine-med sandstone, angular, poorly sorted, poor porosity, volcanic/tuffaceous grains massive

910' - AP5024PP

UNIT 5 — Green medium sandstone. Angular, poorly sorted, poor porosity. High % of volcanic grains, massive, some iron stains.

Green medium sandstone, angular very poorly sorted, well indurated, massive. Feld > 40%, volcanic ≥ 50% lith etc 10%, poor porosity

1145' - AP5025PP — Green coarse sandstone, subangular, poorly sorted, low porosity, massive, included interbeds of green granular volcanic breccia.

1180' - AP5026PP
1190' - AP5027PP

Green-gray medium sandstone, angular, poorly sorted, poor porosity, argillaceous, tuffaceous, carbonaceous, massive

1270' - AP5028PP

UNIT 6 — Green medium-crse sandstone, mod-sorting, sub-ang, low porosity argillaceous, massive. Arkose ie Feld ≥ 75%, lith ≤ 25%

Green conglomeratic crse ss, a, vp sorted, no porosity, highly indurated massive, sub-rounded included greenstone pebbles

1355' - AP5029PP

1390' - AP5030Pf — Green med ss, ang, m-p sorted, argillaceous, arkosic, massive, poor porosity carbonaceous

UNIT 7 — Dark gray argillaceous very fine sandstone, thinly laminated, bioturbated. sub ang, p. sorted, mod sorted, random carbonaceous frag's, minor sub-rounded granules < 1%

Bottom of the Section
(Last outcrop at sea level)