D. Coles
TCW

J.S. Cummings Inc.

LITHOLOGIC LOG

Project T9-R9 Lithologic **Hole no.** 99-8 **Dip** -45° **Started** 6/8/81 **Elev.** _____

Job no. 271 **Township** T9-R9 **Coord.** See Sketch 271-6 **Direction** 156° Mag **Completed** 6/10/81

NW 1/4 - near Mooseleuk Mtn.

Lithotype

0'

10' Overburden

16' Chert - *

28' Gritty Felsic Tuff- fine grained with white feldspar crystals, some vague layering 60° to core axis, grey to black matrix with some medium grit, 19'-23.5' brecciated andesite-basalt dike or fragments? in a chloritic calcite matrix, 26'-26.6' basalt, looks like chilled zones in some of the basalt dikes in the area

50'

60.5' Felsic Aggl.- black to grey color, coarser grained with less matrix than higher ** up, fragments are grit to lapilli sized with lapilli sized fragments increasing in number with depth, some block sized fragments are seen, fragments include rhyolite, chert, and abundant feldspar crystals, weakly altered

Tuffaceous and Cherty Siltstone, Gritty and Granular Felsic Tuff - Fine grained with gritty sections, grey-green color, layered with layers at 60°-40° from the core axis, at 89'-94' layers are jumbled, some sections are hard and silicified

100'

Gritty sections show no layering, they contain grey and black siliceous fragments and feldspar crystals in a soft grey-green matrix

150'

With the finer grained samples it is difficult to assess the amount of ash - they appear to be at least somewhat tuffaceous (TCW)

200'

210'

Bottom of Hole

250'

* Chert- black with some grey layers, the grey layers contain very fine grit, layers are at 55° to the core axis and from .5" to 1.5' thick

300'

**Two samples show angular to rounded dominantly felsic rock fragments with a matrix of feldspar crystals (some with corners rounded) and lesser quartz crystals and a micro matrix which varies from siliceous to chloritic

350'

400'

CL Woodard
Feb. 25, 1982

RE-EVALUATION BASED ON BINOCULAR EXAMINATION OF
DRILL CORE IN OFFICE

99-8

10 - 16 - Welded Felsic Tuff (or possible chert?) -
dk. grey with lt. grey-white bands, very hard, core has a very fine sugary texture and contains minor visible angular qtz crystals and some chalky white (kaolin?) grains, examined core at 10'.

16 - 28 - Felsic Gritty Tuff -
fairly good looking felsic tuff with some grit, thin and patchy micro matrix contains abundant angular scratchable broken feldspars and some qtz crystals, plus quite abundant grey siliceous rock fragments and minor black siliceous rock fragments;
drill log also notes 19'-23.5' brecciated andesite-basalt dike or fragments and 26'-26.6' brecciated basalt (no samples of this in office), examined core at 30'

28 - 60.5 - Proximal Felsic Agglomerate (with abundant felsic gritty tuff matrix) -
micro matrix of lt. green sericite with dk. green chlorite locally and containing abundant, mostly hard feldspars, slightly coarser grained and slightly less angular than feldspars in above unit; Core also contains more abundant grit sized rock frags than in above unit. This unit contains ~ 20-50% angular and sub-rounded lapilli sized (mostly felsic) rock frags. Abundance, size, and variety of lapilli frags increase towards bottom of unit. Core at 50' contains 20-25% lapilli rhyolite and other felsic volcanic frags, up to 1/2" in size. Core at 59' contains 30-40%, mostly rhyolites plus a few dacties, felsic tuffs, and tuffaceous siltstone frags, up to 1.0" in size. Examined core at 50' and 59'.

60.5- 200 - Mixed Fine Felsic Tuffs -
mixed layered fine granular felsic tuff and felsic gritty granular tuff, some welded felsic tuff sections; Most samples in this section are either fine granular felsic tuffs (70', 90') or slightly coarser grained gritty and granular felsic tuff with layered fine equa-granular matrix containing minor grit sized rock frags (110', 170', and 210'). Some core samples show mixed layers of both (130', 150'). Drill log notes some sections are hard and silicified. Sample at 190' is a probable welded felsic tuff. Examined samples at 90', 110', 130', 150', 170', 190', and 210'.

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SULPHIDE LOG

Project T9-R9 Lithologic Hole no. 99-8 Dip -45° Started 6/8/81 Elev.

Job no. 271 Township T9-R9 Coord. See Sketch 271-6 Direction 156° Mag Completed 6/10/81

NW 1/4 - near Mooseleuk Mtn.

FROM	TO	INTERVAL	EST. % SULPHIDES	EST. METAL (Cu, Pb, Zn)	ALTERATION
10	210	200'	<1%	Pyrrhotite	
Bottom of Hole					