FIELD DATA SHEET
LITHOLOGY LOG

HOLE NO. 11-77-EE
DATE 3/8/89
PROJECT GEOLOGIST

HOLE NUMBER 11-77-BB
SOURCE MAP
TD 1190'
REMARKS

DEPTH		LITHOLOGY
TO	FROM	
370	60	Alluvium consisting of (1) basaltic chips
		containing olivine, which in some
		cases alters to iddingsite, (2) Pebbles
		of tuff, amphibolitic andesite, andesite,
		quartzite, & an unidentified layered
		gray & white ~~siliceous~~ siliceous rock, and
		(3) Rare crystals of quartz, muscovite
		(appearing at 200'), plagioclase, &
		olivine & actinolite! Minimum
		Fe staining.
400	370	Olivine bearing basalt. Fe staining
		present (minimum)
420	400	Red clay
430	420	Olivine bearing basalt — some olivine
		altering to iddingsite. Chips of
		chlorite. Reddish-brown clay
470	430	Chips of olivine bearing basalt
		mixed with clay going from
		reddish-brown to black with
		depth. Increase in Fe staining
650	470	Olivine bearing basalt — minor
		alterations of olivine to iddingsite.

Minimum Fe staining.

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DEPTH		LITHOLOGY
TO	FROM	
860	650	CRYSTAL TUFF - PINKISH RED IN COLOR, FRAGMENTS CONTAIN QUARTZ, PLAGIOCLASE AND FERRO-MAGNESIA CRYSTALS WITHIN THE PINK MATRIX, WHICH IS VERY FINE GRAINED. AT 700', THE QUARTZ CRYSTALS INCREASED IN SIZE TO GIVE A DISTINGUISHABLE RED & WHITE "SPECKLED" APPEARANCE. AT 760', SMALL AMTS. OF THE UNDERLYING VITRIC TUFF SHOWED UP, APPEARING TO "CONTAMINATE" OUR SAMPLES. THIS CONTAMINATION WAS CONSIDERED TO BE A GRADATIONAL CONTACT BETWEEN THE TWO TUFFS. SOME SERPENTINE WAS FOUND, BUT ONLY IN SMALL AMOUNTS. OCCASIONALLY SOME OF THE TUFF FRAGMENTS SHOWED "LITHIC" CHARACTERISTICS BECAUSE OF THE BASALT FRAGMENT THAT WERE FOUND WITHIN THE PINKISH RED MATRIX.

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	DEPTH		LITHOLOGY
	TO	FROM	
(TD)	1190	850	Welded vitric tuff smoky in color.
			Contains (in decreasing percentages)
			quartz plagioclase biotite & some
			serpentine & olivine, some of which
			has altered to iddingsite. Free serpentine
			also observed along with a trace of
			an unidentified clear to white, soft (~2)
			& noneffervescent mineral. Tuff has
			very sugary texture. Fe staining common.
			Sample contaminated by chips of
			overlying crystal tuff.