DIP TESTS

TEST	FROM	TO	TOTAL	DIP	DIP CORR.	LATITUDE	LATITUDE CUM.	DEPARTURE	DEPARTURE CUM.
@collar	0	149	149		-45°	105.36		105.36	
							105.36		105.36

DIAMOND DRILL HOLE LOG

Project 514

ELDORADO NUCLEAR LIMITED

LOCATION Bond Claims
SECTION 39+50E
LATITUDE 1+48S
DEPARTURE 39+50E
ELEVATION Surface
CORE IAX
STORAGE Whitehorse

HOLE No. B-5
AZIMUTH 190°
DIP -45°
LENGTH 149'
PURPOSE Inv. Mag. anomaly
COMPLETED JUne 25/77
LOGGED BY W.J. Olsson

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	6.0	Casing
6.0	35.0	Interbedded Sedimentary & Volcanic Mudstones
		Colour: Greyish to buff grey to red brown.
		Hardness: 3-5
		Composition: 40-60% carbonate, 30-40% chlorite, 10-20% silica, 5-10% other minerals (magnetite, sulphides, etc.)
		Texture: very fine grained.
		Structure: This unit is more fractured than that recognized in B-4 (only slightly more). Bedding is well developed and cuts the core steeply @ 70° or so. Individual beds are .25-.50" thick: fractures cut the core at 40°, 45°, and at 60°. All contain deeply hematized material.
		Alteration: There is intense hematitization associated with all of the fracture patterns. Generally this hematitization extends into the mudstone (up to several inches). Magnetite and pyrite are present in some of the hematitized zones.
		Radioactivity- None
		Broken Core - Minor broken core is associated with some of the larger hematitized fracture patterns.

CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES FROM	CORE SAMPLES TO	CORE SAMPLES WIDTH	CORE SAMPLES %	CORE SAMPLES AVERAGES
35.0	72.5	Volcanic Mudstone (phyllite?) Colour: Pale grey green to light tan. Hardness: 3.5 Composition: 50-60% carbonate (?) 30-40% chlorite, 10-20% silica and other secondary minerals. Texture: Very fine grained. Structure: A very weak bedding is present cutting the core at 60-70°. Locally fractures ∥ the bedding & occur in zones 4" to 1' thick. Some breccia is associated with these wider fracture zones. Also vuggy quartz material is present in the larger fractures (@54'). This quartz is accompanied by magnetite. This unit is probably a transitional phase from the previous unit to the next unit as it possesses qualities of each. Lenses of sulphide material (some chalco. but mainly pyrite) are present periodically. They generally lie near ll to the bedding. This unit is most likely the green phylite mentioned in logs of holes B-1 to B-3 incl. Alteration: Limonitic staining accompanies the fracture pattern. This is in contrast to the intense hematitization observed in the previous unit. There is some minor hematitization with the limonite. The sulphide lenses do not appear to be visibly altered nor have they altered the host rock. Magnetite found with the vuggy quartz veinlets is partially hematitized. Radioactivity: None.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
35.0	72.5	Volcanic Mudstone (phyllite?) con't. Broken Core: Minor broken core is found with some of the larger fracture patterns. 35.0-72.5 This unit corresponds to the green phyllite mentioned in drill logs of holes B-1 to B-3 inclusive. It also is a transitional zone between the overlying well-bedded mudstones and the underlying breccia. The final 5' of this unit are locally brecciated implying a transitional phase within the transitional zone.
72.5	149.0	Explosive(?) Breccia Colour: Pale green-grey with large fragments of pink to brownish to dark black coloured material. Hardness: 3 - 5. Composition: 50% carbonate, 30% chlorite, 10-20% barite, 0-10% silica and other minerals. Texture: The matrix is very fine grained and fragments are rounded to sub-rounded and up to several inches in diameter. Structure: A crude bedding (foliation?) cuts the core at 60-70°. The matrix is locally crenulated. Bands of barite exhibit drag folding. Fractures cut the core at 30-40°, 60° and 90°. Generally there is intense hematization and limonitic staining associated with the fractures. Some of the wider fractures contain vuggy quartz. Fragments of flint are present at 103'-105' with barite and quartz veinlets. Lenses of sulphide material are found throughout the unit associated with the fractures or on the fringe of barite stringers. Crystals of magnetite are found with the fractures as well. Fault gouge is present at 128' and 133' (no angle evident). (cuts at 45°)

CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES
72.5	149.0	Explosive(?) Breccia, con't.					

Alteration: Hematization and/or limonitic staining are found with the fracture patterns. 134.7-139.0 is radioactive and tends to exhibit a pink-purple hue in contrast with the rest of the unit. There is also a high sulphide content to this radioactive interval. The sulphides tend to rim quartz and barite veins that cut the core parallel to the bedding-foliation. A high amount of magnetite is also present. The hematite is altered magnetite.

Radioactivity: There is a radioactive section as follows:

135.0'-135.5'	175 cps
136.5'-136.9'	250 cps
136.9'-137.6'	450 cps
137.6'-138.4'	450 cps
138.4'-139.2'	175 cps

The radioactivity is associated with a concentration of sulphide material within the breccia. Also the section was a pink-purple hue to it.

Broken Core: 128'; 133' (fault zones?)

END OF HOLE.