DIP TESTS

TEST	FROM	TO	TOTAL	DIP CORR.	LATITUDE	LATITUDE CUM.	DEPARTURE	DEPARTURE CUM.
Collar	0	152'	152'	-45	107.48		107.48	
						107.48		107.48

DIAMOND DRILL HOLE LOG

Project 514

ELDORADO NUCLEAR LIMITED

LOCATION Bond Claims
SECTION 38+20E
LATITUDE 2+00S
DEPARTURE 38+20E
ELEVATION Surface
CORE IAX
STORAGE Whitehorse

HOLE No. B-13
AZIMUTH 190°
DIP -45°
LENGTH 152'
PURPOSE Investigate Mag.
COMPLETED July 7/77 Anom.
LOGGED BY W.J. Olsson

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	2.0	Casing
2.0	88.0	Fractured, Well Layered (Foliated) Phyllite

Colour: Initially a dark grey which becomes a lighter shade around 40'. Some buff layers present.

Hardness: 3 - 5.

Composition: 80% chlorite and carbonate, silica in 10% hematite, limonite 10%.

Texture: Very fine grained.

Structure: A layering (foliation?) cuts the core at 50°. This feature is poorly to well developed where layers of buff and grey material ½" thick alternate with one another. The core is very broken up suggesting this is a fracture zone. Lost core is reported at the following footages:

6.0'- 6.8'	28.0'-29.2'
7.9'- 8.6'	35.0'-36.0'
10.8'-11.7'	37.9'-38.4'
22.0'-22.5'	39.0'-39.7'
23.9'-24.5'	

Sporadically between

39.7'-44.8'	81.0'-82.4'
45.0'-46.3'	83.9'-84.6'
51.6'-52.0'	86.0'-87.3'
79.0'-80.0'	

Intensely broken core is present at the following footages due to intense fracturing:

27.0'-28.0'	63.0'-68.0'	74.0'-78.0'
36.0'-37.9'	72.0'-73.0'	87.0'-88.0'

CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES
2.0	88.0	Fractured, Well Layered (Foliated) Phyllite, con't					
		Structure: Fractures tend to cut the core at 30°, 45° and 60°. In some instances a pattern cuts the core at 90°. In the vicinity of the fractures, the core is very fine grained (ie. mudstone) and is brownish greenish in colour. The entire unit represents a zone of fracturing.					
		Alteration: Hematite and limonite staining are present in the fractures with the latter predominating. Magnetite is less than 5% and it is only partially hematized.					
		Radioactivity: None					
		Broken Core: See "Structure".					
		2.0-88.0 The fine grained nature of the unit classes it as a phyllite although volcanic mudstone may be an alternate name. The broken nature of the core suggests a zone of wide spread fracturing that occurred after the foliation developed. Of significance is the lack of sulphide material and the relative small amount of magnetite present compared to the core observed in other holes. The magnetite that is present appears to be in fractures and not disseminated as observed elsewhere.					
88.0	152.0	Explosive Breccia					
		Colour: The matrix is a steel-blue grey. The fragments are buff coloured (pink to purple in zones of radioactivity).					
		Hardness: 3 - 5.					
		Composition: The matrix is a carbonate-chlorite matrix while the fragments are rich in barite and quartz-feldspar material. Magnetite is up to 5% locally. Up to 5% sulphides present (chalco, pyrite and/or pyrrhotite).					
		Texture: The matrix is fine-grained while the fragments are up to 4" in size.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	CORE SAMPLES FROM	TO	WIDTH	%	AVERAGES
88.0	152.0	Explosive Breccia, con't.					

Structure: A rough foliation cuts the core at 50-60°. It is defined by the elongation of the smaller fragments that are rounded to sub-rounded. From 133' magnetite is disseminated giving the unit a speckled appearance. Sulphide material is found as fracturing fillings or as lenses parallel to the foliation. Fractures cut the core at 30°, 60° (parallel to foliation) and 20°.

Alteration: Hematite and/or limonite is present on some of the fractures. Generally this type(s) of alteration is not as wide spread as in the previous unit. Magnetite is locally hematized. The radioactive zone is signified by pink to purple fragments in a greenish matrix.

Radioactivity: The following footage is radioactive:

140-142'	190 cps
142-143'	425 cps
143-143.5'	160 cps

There is a pink-purple hue to the fragments and a greenish colour to the matrix and part of the fragments. Also there is a concentration of magnetite and sulphide material coinciding with the higher grade portions. There are such concentrations elsewhere that are not radioactive. The fragments show signs of having been fractured before the formation of the breccia. Fragments are cross-cut by barite(?) filled fractures that do not extend into the matrix.

Broken Core: There is broken core associated with the radioactive zones and sporadically between 104' and 122'

88.0-152.0 This unit is typical "explosive" breccia. There is an increase in the magnetite content with depth. Fragments in the breccia show signs of previous deformation. Although there is a concentration of sulphide material and magnetite with the radioactive zones there are such concentrations elsewhere that are not radioactive.

End of Hole.