

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

**Hole: BJ-92-01
Sheet: 1 of 5**

Job <u>16120</u> N.T.S. <u>12A/16</u>	Objective <u>Test I.P. chargeability</u>	Core Location <u>St. John's office</u>	Tests	Dip	Azimuth
Property <u>Buchans Junction</u>	<u>anomaly</u>				
Ore Zone _____	Drilling Co. _____	Distance to Water _____	At Collar	<u>-55°</u>	<u>134°</u>
Location: Line <u>10+00 S</u>		Casing Lost _____	<u>54.9m</u>	<u>-54°</u>	
Station <u>5+52 E</u>	Commenced <u>Sept. 29, '92 to Oct. 1, '92</u>		<u>112.8m</u>	<u>-55°</u>	
Elevation _____	Completed <u>Deepened Oct. 10, 1992</u>	Core Size <u>BQ</u>			
Logged <u>Wayne Pickett/Kelly Brophy</u>	Length <u>142.34m</u>				
Remarks _____					

Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Na ₂ O (%)
From	To										
0.0	8.8	Overburden									
8.8	14.3	Rhyolite (3fz)	Light grey-brown, tiny white altered feldspar phenocrysts, estimated 10% of 1-4 mm wide quartz veins crosscut by 1-2 mm wide dark blue/grey quartz/chlorite?/sulphide? veins, these veins are, in turn, crosscut by other 1 mm wide quartz veins	9611	8.8	14.3	5.5	16	6	39	3.43
			14.0 3 cm wide brecciated zone	9612	13.1	13.4	0.3	9	7	33	2.96
14.3	28.1	Basalt/Mafic Dyke? (1zt)	Medium green, medium grained mafic rock, 20 cm wide bleached zone at contact with overlying rhyolite, contact at 45° to core axis, banding in rock within 10 cm of contact, remnant ophitic texture, tiny white phenocrysts possibly leucoxene, rock is chloritized,	9613	14.3	28.1	13.8	30	17	96	3.35
				9614	16.3	16.6	0.2	58	10	75	2.65
					18.3	18.6	0.3				
					23.5	23.7	0.2				

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Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Na ₂ O (%)
From	To										
			estimated 20% of unit is bleached, in bleached areas a few 0.5 mm long sericitized feldspar phenocrysts are evident, 5-15% quartz, chlorite veins and a few calcite veins, veining is irregular but several are at about 45° to core axis, trace disseminated pyrite Sample 9614 was taken from bleached areas								
28.1	47.7	Hematized Pillow Basalt (1Pzt)(hem.)	Red-brown, moderately to strongly hematized, 28.1 - 30.2 roc' is fine grained, cherty 30.2 - 47.7 pillowed basalt, fine grained, strongly hematized, pillows are typically 50 cm across but some smaller 20 cm pillows noted, concentric layering parallel to pillow rims, where pillows have been cored through their centres, layering is at about 45° to core axis -interpillow areas are more chloritic, typically contain hematized, angular clasts and locally red chert clasts -estimated 10% calcite and/or quartz veins, irregularly distributed, some veins carry an estimated 2-3% specular hematite -no chert clasts below about 42m	9615	28.1	47.7	19.6		16	160	3.20
47.7	49.5	Massive Basalt or Mafic Dyke (1zt)	green, fine grained mafic rock, at 49.5m sharp contact at 49.5m at 45° to core axis, at 49.5 m calcite veinlets are hematized outward for about 1 cm from the vein walls	9616	47.7	75.7	28.0	8	26	177	4.01
49.5	57.9	Hematized Pillow Basalt (1Pzt)(hem.)	as per 30.2 - 47.7								

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From	To										
57.9	58.6	Massive Basalt or Mafic Dyke (1zt)	as per 47.7 - 49.5	9617	58.4	58.5	0.1	8	19	303	4.12
58.6	80.6	Hematized Pillow Basalt (1Pzt)(hem.)	as per 30.2 - 47.7 66 - 70 irregular jasper fragments between pillows	9618	75.7	90.0	14.3	7	18	149	2.29
80.6	81.0	Massive Basalt (1zt)	80.6 - 81.0 green mafic rock, contact at 80.5 m suggests redox boundary								
81.0	89.7	Hematized Basalt (1zt)(hem.)	red-brown, massive to possibly locally pillowed hematized basalt, estimated 5% calcite veins 83.7 - 84.9 less hematized 84.03 - 84.33 pillow breccia 84.45 brecciated, calcite fills breccia matrix 88.67 - 89.67 about 10-15% quartz, calcite or saussurite amygdules, about 2-4 mm across; amygdules are rimmed by hematite								
89.7	111.6	Hematized Pillowed Basalt (1Pzt)(hem.)	as per 30.2 - 47.7 - several small pillows 10-20 cm across accompany larger 50 cm pillows 93.0 m vuggy quartz, chlorite vein, later calcite vein 98.0 - 98.2 interpillow area is hematite rich, chloritized and sericitized, sericitized feldspar laths noted	9619	90.0	111.0	21.0	35	24	193	4.92

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Depth (m)		Rock Type	Description	Sample No.	From	To	Length (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Na ₂ O (%)
From	To										
89.7	111.6	Hematized Pillowed Basalt (cont.)	100.2 - 100.4 as per 98.0 - 98.2 103.5 - 103.7 as per 98.0 - 98.2 108.0 - 111.5 several 10 cm wide calcite veins containing about 1% specular hematite, sericite also noted in veins 108.14 sericitized zone about 2 cm wide containing about 10% specular hematite, sericitized zone cut by late calcite, minor brecciation 108.0 sericitized, chloritized, carbonatized zone 109.0 chlorite, sericite, talc? gouge zone at 35° to core axis								
111.6	129.7	Altered Rhyolite (Lundberg Hill Formation?) (3L)(chl.,sc.)	light green to light grey, strongly chloritized, sericitized and silicified rhyolite, shot through with chlorite, sericite and irregular quartz veins, trace pyrite and chalcopryrite Sample 9620 - sericitized and silicified Sample 9621 - more chloritized - contact with overlying basalt very sharp, probably fault, although no gouge in core, possibly small section of lost core - abundant altered plagioclase phenocrysts locally 114.0 - 116.0 few preserved pale pink to light grey rhyolite sections 117.2 - 119.0 preserved rhyolite sections have rounded outlines, occur in chlorite-sericite matrix	9620 9621	111.7 112.5	111.9 112.8	0.2 0.3	44 149	30 70	88 140	4.09 0.48

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From	To										
111.6	129.7	Altered Rhyolite (Lundberg Hill Formation?) (3L)(chl.,sc.)	Sample 9671 - sericitized and chloritized	9671	119.0	119.2	0.2	34	16	103	1.25
			Sample 9672 - sericitized and chloritized	9672	119.6	119.8	0.2				
			Sample 9673 - more chloritized sections	9673	124.6	124.9	0.3	65	15	79	2.11
			119.0 - 119.2 sericite-rich gouge zone, few preserved quartz and some K-feldspar crystals, estimated 80% sericite, 10% chlorite and 10% quartz and feldspar		129.3	129.5	0.2				
		Altered Rhyolite (Lundberg Hill Formation?) (cont.)	120.0 sericite-rich gouge zone 125.1 - 129.7 strongly chloritized and sericitized rhyolite, few carbonate-bearing sections bearing trace chalcopyrite, sericitization more pronounced at base of section 129.7 sharp gouged contact at about 65° to core axis								
129.7	142.34	Quartz-phyric Rhyolite (Lundberg Hill Formation?) (3L)	Pink-red, contains about 5% of 2-5 mm quartz phenocrysts in a pink felsic matrix, minor hematization, locally brecciated with chlorite filling matrix to breccia, few carbonate veinlets	9674	115.0	129.0	14.0	42	13	106	0.64
142.34			E.O.H.								