

**TECK EXPLORATION LTD.
DIAMOND DRILL LOG**

**Hole: BJ-92-03
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Job <u>16120</u> N.T.S. <u>12A/16</u>	Objective <u>Test Horizontal Loop</u>	Core Location <u>St. John's office</u>	Tests At Collar Dip Azimuth <u>94.49m</u> <u>-50°</u> <u>131°</u> <u>-53°</u> _____ _____ _____ _____ _____ _____ _____ _____
Property <u>Buchans Junction</u>	Conductor _____	Distance to Water _____	
Ore Zone _____	Drilling Co. <u>Petro Drilling Ltd.</u>	Casing Lost _____	
Location: Line <u>9+00 N</u>	Commenced <u>October 3, 1992</u>	Core Size <u>BQ</u>	
Station <u>6+07 E</u>	Completed <u>October 4, 1992</u>	_____	
Elevation _____	Length <u>94.49m</u>	_____	
Logged <u>Wayne Pickett/Kelly Brophy</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	10.3	Overburden									
10.3	39.0	Poly lithic Conglomerate (4cg)(hem.)	Red, hematized - clasts are typically pebbles or cobbles ranging in size from 1 to 5 cm in diameter, they are subangular to subrounded - mafic and felsic volcanic clasts predominate accompanied by lesser numbers of chert, hematized and sericitized sedimentary rocks, and a few granitoid rock clasts - matrix is strongly hematized and is composed of poly lithic pebbles, sand and silt - unit probably stacked sequence of fining upward conglomerate beds typically 1-1.5 m thick bounded on the top and bottom by thin silty layers, calcite veining occurs in silty layers	9632	10.3	33.7	20.4	17	46	134	2.26

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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										
		Poly lithic Conglomerate (cont.)	- stratigraphic tops are up hole 10.6 - 10.7 gouged section, highly hematized silty material 11.0 - 11.3 gouged section, strongly hematized, material ground to silt and clay foliation in gouge irregular but typically at 60° to core axis 11.5 - 11.6 gouged section, strongly hematized and locally sericitized silty material, calcite veins at 20° to core axis 32.5 - 32.7 strongly hematized shear zone, sericitized immediately above hematized zone, shearing at about 50° to core axis 32.7 - 33.3 rock is locally fractured, in places, specular hematite noted in matrix 33.3 - 33.4 pale to medium green, fine grained, strongly chloritized and carbonatized, trace disseminated chalcopyrite and specularite, strongly carbonatized and sericitized upper part of this section contains disseminated pyrite and trace galena? 33.4 - 33.9 about 10% calcite in matrix 33.9 - 36.3 rhythmic, fining upward, hematized poly lithic conglomerate sequences, calcite in matrix of coarsest bed at base of each sequence 36.3 - 39.0 sequence of fining upward conglomerate beds about 10-20 cm thick, less hematized								

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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										
39.0	44.2	Interlayered Poly lithic Conglomerate and Sandstone (4cg,s)(hem.)	Red/brown, hematized, interlayered poly lithic pebble conglomerate and sandstone, - conglomerate comprises about 70% of sequence - cyclic bedding in much of sequence - conglomerate beds typically 10-40 cm thick - bedding at 70° to core axis - thin siltstone layers at top of some sandstone beds 39.0 - 39.1 probable stratigraphic break, clasts and matrix sericitized 39.1 erosional contact between sandstone and underlying conglomerate bed, calcite veining, sericitization 39.7 - 39.9 soft sediment deformation features in places, sericitized section, pyrite masses locally, 2 mm pyrite seam at base of section 39.9 - 42.0 less hematized, poly lithic, clast-supported conglomerate, few thin siltstone laminations 42.0 - 42.3 cobble conglomerate, several rhyolite clasts 42.3 - 42.6 medium to coarse red sandstone with conglomerate at base 42.6 - 43.0 hematized silty sandstone beds about 10-15 cm thick interlayered with conglomerate 42.8 - 43.0 few clasts of strongly sericitized rhyolite 43.0 - 44.3 silty sandstone and conglomerate, several large cobbles of amygdaloidal basalt, matrix is sericitized between 43.5 and 43.6 m sericitized matrix to clasts								

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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										
		Interlayered Polyolithic Conglomerate and Sandstone (cont.)	Sample 9633 comprises sericitized clasts from 42.8 - 43.0 interval and sericitized matrix from 43.5 - 43.6 interval	9633	42.8 43.5	43.0 43.6	0.2 0.1	9	18	80	1.91
44.2	45.4	Red Mudstone (4m)(hem.)	massive red mudstone, few calcite veinlets	9634	44.2	45.4	1.2	16	13	76	0.94
45.4	49.0	Conglomerate and Intermediate Breccia (4cg,2bx)	red-grey, moderately hematized, consists of angular to subrounded intermediate volcanic clasts and fragments fine grained mafic matrix, 2-3% thin calcite veins 46.8 - 47.0 matrix is sericitized	9635	45.8	49.0	3.2	37	18	113	3.71
49.0	57.5	Andesite (2f)	medium green to light brown, fine grained, massive flows, slightly hematized, 5% calcite veins locally, hematite flanks calcite veins at 53.3 m	9636	49.0	57.5	8.5	28	27	103	4.08
57.5	58.8	Intermediate Flow Breccia (2bx)	angular hematized fragments in light green, sericitized matrix 58.5 - 58.8 hematized and gouged								
58.8	60.5	Pillowed Andesite (2p)	hematized, contains about 2% calcite veins								

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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										
60.5	72.8	Intermediate Flow Breccia (2bx)	medium grey-green to medium red-brown, variably hematized - consists of irregular fragments and broken small pillows (1 cm to 10 cm in diameter) in a variably hematized and sericitized matrix - few 0.3 to 0.8 m pillows, some showing concentric layering parallel to rims - abundant calcite-epidote amygdules and veins below 69 m	9637	60.5	72.8	12.3	30	34	119	3.17
72.8	94.49	Andesite (2f)	72.8 - 94.0 medium grey, fine grained, massive, about 1-5% calcite veins	9638	72.8	94.0	21.2	15	23	95	4.05
			94.0 - 94.49 medium green to buff, slightly sericitized, 2-3% quartz, chlorite and calcite veins, 1-2% disseminated hematite	9639	94.0	94.49	0.49	12	17	79	2.79
94.49			E.O.H.								