

091316

DRILL HOLE LOG

DISCOVERY MINES LIMITED

68-4

DIP TESTS

Property Micro Nickel Project	Hole Number	
At Koldern, Yukon	Dip -48° 15'	
Claim No. Micro 11, Grant 86368	Length 742.0'	
Working Place Surface	Bearing N. 0° 15' E	
Baseline Footage 12,141.16'	Elev. Collar 2964.12'	
Baseline Offset 8,439.73 N	Horiz. Trace 494.1'	
Date Started June 9, 1968	Vert. Trace 553.6'	
Date Completed June 26, 1968	Date Logged June, 1968	

At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
0.0	17.0	CASING			
17.0	49.4	INTERBEDDED CHERT & ALBITIZED TUFF - Chert is dark grey to black, v.f.g., moderately fractured with quartz carbonate filling. Albitized tuffs are light to dark grey, f.g., cherty, in part laminar at 65°. Scattered traces po. with some concentrations in slightly coarser bands. Albitization is weak. Some vaguely mottled sections but not typical. First 4 feet badly broken, surfaces oxidized, may include some boulders. Changes from chert to tuff poorly defined, broken, but chert bands seem to be 4" to 8" in width. Sample: 27.0 - 31.0	693		Tr.
49.4	54.0 [±]	CHERT - Black, f.g., abundant quartz carbonate filled fractures. Last foot badly broken.			
54.0 [±]	64.0	LOST CORE - 2' of pebbles recovered, mixed chert and albitized tuff, grey - black.			
64.0	68.0	ALBITIZED TUFF - Grey to whitish, laminar at 50°. Only 2' of core recovered. Traces po. py.			

Logged by **T. Antoniuk**

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
68.0	98.0	<p>FAULT ZONE - Heavily sheared albitized tuffs, grey, f.g. Core badly broken.</p> <p>71.0 - 3' gouge zone.</p> <p>82.0 - 5' " "</p> <p>88.0 - 96.0 Breccia zone, cemented with quartz.</p> <p>96.0 - 98.0 Core seems to be becoming less fractured.</p>			
98.0	112.0	<p>GREYWACKE - Grey - grey green, f.g., strongly resembles some coarser tuffs and in part may be a quartzite. Moderately fractured with quartz carbonate filling. Scattered disseminated po, py and traces cpy. A few narrow bands contain up to 3% sulphides.</p> <p>Sample: 98.0 - 101.0</p>	694		Tr.
112.0	114.0	LOST CORE			
114.0	131 ±	<p>MASSIVE ALBITIZED TUFF - Grey - grey green, f.g., in part laminar at 60°. A few cherty sections and a few bands may be greywacke as above. Traces po. and py.</p> <p>124.0 - 131.0 Heavily fractured with abundant quartz carbonate filling.</p>			
131 ±	161.5	<p>GREYWACKE - Various shades of grey to pale grey green, f-med. gr., as at 98.0. Albitized. Scattered minor disseminated pyrrhotite, pyrite and traces of chalcopyrite. Vague banding at 60°.</p> <p>140.6 - 4" coarse grained band with minor po.</p> <p>146.0 - 151.0 - 2' lost core, remainder badly broken.</p> <p>About 50% of fragments are black chert.</p> <p>One 2" piece of core is 20% po in albitized cherty tuff.</p> <p>151.0 - 156.2 - Medium grained section, vaguely banded at 60°, minor po & py. Albitized.</p> <p>156.2 - 161.5. May be an albitized tuff slightly coarser than normal.</p>			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni.
161.5	173.2	BANDED CHERT & CHERTY TUFF - No distinct contacts, not laminar, more like one single bed containing lenses of different composition. Black - dark grey - pale grey, f.g., Scattered traces py, po.			
173.2	239.7	CHERT PEBBLE CONGLOMERATE - Basically a greywacke with abundant small grains and some boulders of chert. Greywacke is grey, mottled appearance, f-med.gr., 70% rounded grains of quartz (?). Scattered traces of po, py, cpy. The chert is black, v.f.g., dense, hard.			
		173.2 - 222.3 Greywacke.			
		222.3 - 223.8 Chert, upper contact sharp at 80°.			
		223.8 - 225.5 Greywacke.			
		225.5 - 229.4 Chert, vague banding at 70°. One ½" band of heavy po in greywacke.			
		229.4 - 230.4 Greywacke.			
		230.4 - 231.2 Chert, upper contact at 50°, lower at 30°.			
		231.2 - 236.4 Greywacke.			
		232.0 - 2" Chert.			
		232.8 - 4" Cherty tuff.			
		233.1 - 3" " "			
		234.3 - 4" Moderate pyrrhotite.			
		236.4 - 239.7 Chert, contains many patches of greywacke, usually with moderate po, py.			
		238.0 - 6" greywacke, ½" heavy po. traces py cpy.			
239.7	240.0	LAMINAR ALBITIZED TUFF - MINERALIZED - Grey Green, f.g., cherty, laminar at 30° to core, contains a ½" band with heavy po.			
		Sample: 239.7 - 243.5'	695		Tr.
240.0	268.8	GRANODIORITE - Grey Green, med.gr., massive, siliceous, albitized (?). Resembles greywacke above but much less quartz and does not show rounded grains characteristics although grains altered and indistinct. Scattered traces po, py, cpy.			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
268.8	275.0	CHERT - Black to gray, v.f.g., laminar at 60°. May include some fine bands of tuff.			
275.0	284.0	ALBITIZED TUFF - Cherty, gray, f.g., laminar at 60° in sections. May include some chert bands.			
284.0	295.0	MOTTLED ALBITIZED GREYWACKE OR TUFF?? - Resembles greywacke above with pale whitish mottles up to 1/4". Not typical. Grey green, f.g. Scattered traces to minor po, py.			
295.0	300.5	ALBITIZED CHERTY TUFF - Grey f.g. laminar at 60°. Core badly broken. May contain some coarser tuffs or greywacke.			
300.5	325.0	ALBITIZED TUFF - Grey green, f.g., interbedded fine & coarse bands at 60°. Bands from 2" to 3" in width, some may be greywacke.			
325.0	328.4	FAULT ZONE - Deformed, bleached rock, probably tuff. Abundant quartz carb filled fractures.			
328.4	388.4	CHERTY TUFFS - Grey green to brownish, some fine laminar, some coarser bands of greenish tuffs or greywackes. Bands generally less than 4" at 60° to core. Weakly albitized. 344.5 - 350.0 Contains 6 bands 4"-6" of fine pebble conglomerate. 350.0 - 398.2 Bands of pebble conglomerate becoming more common.			
388.4	393.3	PEBBLE CONGLOMERATE - Brownish grey, in some ways resembles greywacke above but with less quartz and definite rounded chert pebbles elongated along bedding at 60°. 390.3 - 391.6 Greenish, no chert pebbles, may be an agglomerate. Lower contact gradational into next section.			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
393.3	423.5	<p>PEBBLE CONGLOMERATE - Grey green, med.gr. Pebbles generally less than 1/4" but some up to 1". Most pebbles are greenstones or tuffs, some quartz. Scattered traces and small patches po. Some interbedded tuffs and agglomerate??.</p> <p>411.0 - 415.0 Laminar zone, f.g., tuffs, some conglomerate and some fragmental, at 50°.</p> <p>417.5 - 418.1 - Tuffs and fragmentals, 2" moderate disseminated pyrrhotite.</p> <p>419.4 - 419.9 - Andesite ?? or f.g. tuff.</p> <p>423.5 Sharp lower contact at 60°.</p> <p>Sample: 418.5 - 421.0</p>	712		Tr.
423.5	472. †	<p>SEDIMENTS - Interbedded tuffs, greywacke and some pebble conglomerate. Pale grey to brownish with occasional greenish grey sections. Banding at 60°, from fine laminar to 2' widths. Some albitization but not prominent. Greenish and conglomerate sections generally contain traces pyrrhotite. Some tuff bands show weak mottling, not typical.</p>			
472. †	519.0	<p>PEBBLE CONGLOMERATE - Grey Green, pebble up to 1". Primarily tuffs and greenstone (??), quartz and some chert. At 60°.</p> <p>Last 20 feet relatively coarse. Scattered diss. po, py and traces ZnS.</p> <p>480.2 - 1/4" chlorite shear at 30°.</p> <p>Sample: 482.4 - 484.4 minor po, traces py, ZnS</p> <p>504.0 - Possible shear zone 1' chloritic fragments recovered.</p>	713		Tr.
519.0	545.4	<p>INTERBEDDED GREYWACKE, TUFF, AND CONGLOMERATE; Brownish to grey green. Some tuffs fine laminar. Conglomerate generally fine pebbles. Scattered traces pyrrhotite throughout.</p>			
545.4	590.8	<p>PEBBLE CONGLOMERATE - Greenish grey, relatively coarser in to above. Many pebbles greater than 1/4" and up to 2". Most of pebbles seem to be tuffs, albitized ??</p> <p>554.8 - 555.6 Fine grained greenish tuff ?? at 60°</p>			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
545.4	590.8	PEBBLE CONGLOMERATE - (Continued)			
		555.6 - 3" chloritic zone, heavy po.			
		557.5 - 559.4 Fine pebbles, minor diss. po.			
		Samples: 555.4 - 556.4	714		Tr.
		557.4 - 559.4.	715		Tr.
		564.0 - 6" fine grained andesite? at 60°.			
		574.0 - 576.5 Numerous bands fine laminar tuffs or andesite?? sedimentary?			
		582.7 - 1/4" massive po & minor opy. at 30°.			
590.8	592.5	TUFF & FRAGMENTAL - Grey, f.g., may include some fine conglomeration or greywacke. A few fine black seams at 60° may be chert.			
592.5	593.3	DEFORMED PEBBLE CONGLOMERATE - Grey green, deformed, albitized conglomerate as above.			
593.3	594.3	FRAGMENTAL (Conglomerate ??) - Pale grey, weakly banded, albitized, nondescript rock. Probably tuffaceous fragmental.			
594.3	595.2	FAULT ZONE - Deformed pebble conglomerate. Quartz carbonate filled shearing at 20°, chlorite on slip faces.			
595.2	634.8	DEFORMED PEBBLE CONGLOMERATE. Grey green, f-med.gr., deformed and contorted, many chloritic sections. Weak albitization. A few narrow bands and seams chert and tuff. Scattered po and py mineralization, best in chloritic sections.			
		602.6 - 1" chert at 60°.			
		603.4 - 1/2" chert at 60° cut by 1/2" quartz at 40° in the opposite direction.			
		605.5 - 2' pale grey very fine conglomerate.			
		SAMPLES: 597.4 - 600.0	716		Tr.
		600.0 - 602.6	717		Tr.
		602.6 - 604.6	718		Tr.
		609.5 - 612.5 Chloritic	719		Tr.
		621.0 - 623.6 " 2% po.	720		Tr.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
634.8	663.4	PEBBLE CONGLOMERATE - Grey green, f.g., majority of pebbles less than 1/4". Scattered traces po & ZnS throughout. 651.0 - 6" grey, f.g., tuff at 50°. Sample: 651.5 - 650.0 654.0 - 657.5 657.5 - 660.5	721 722 723		Tr. Tr. Tr.
663.4	667.7	CHERT - Black, f.g., dense, hard, may include some cherty tuff bands. Core fairly broken. 665.3 - 1" quartz seam, vuggy, at 70°. 665.4 - To end of section heavily deformed, abundant quartz carbonate filaments.			
667.7	669.0	FAULT ZONE - Chloritic sheared tuffs, deformed. Core badly broken. Carbonatised. May have been a pebble conglomerate.			
669.0	714.5	INTERBEDDED TUFF & CHERT - Tuffs are grey green, f.g., weakly chloritic and weakly albitised. Traces to minor pyrrhotite. Cherts are black to grey, v.f.g., hard, brittle. 669.0 - 679.5 - Primarily tuff. 679.5 - 683.0 - " chert. 680.6 - 6" contains scattered 1/8" cubes of pyrite. 683.0 - 686.0 - Lost core. 686.0 - 689 ⁺ - Pebble conglomerate, dark grey, not typical, pebbles less than 1/8". 689 ⁺ - 690.0 - Chert, 4" quartz cemented breccia. 690.0 - 691.2 - Tuffs & 4" pebble conglomerate at 60°. 691.2 - 691.9 - Chert, scattered pyrite cubes. 691.9 - 692.4 - Greenish coarse tuff, mod. po, trace py. 692.4 - 696.3 - Chert, black to grey. 696.3 - 702.5 - Tuff, heavily fractured. Minor po & py in fractures, chloritic slip faces. 702.5 - 711.5 - Chert. 711.5 - 714.5 - Pebble conglomerate, grey, traces po & py.			

