0f1310 Dec 31, 1968
115-F-15

DRILL HOLE LOG

DISCOVERY MINES LIMITED

DIP TESTS

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

Property Micro Nickel Project — Hole Number 68-2
At Keidern, Y. T. — Dip - 52°
Claim No. Micro 4, Grant 86112 — Length 945.0 feet
Working Place Surface — Bearing N 31° W
Baseline Footage 10,007.43 E — Elev. Collar 2690
Baseline Offset 9,150.85 N — Horiz. Trace 581.8
Date Started April 24, 1968 — Vert. Trace 744.7
Date Completed May 18, 1968 — Date Logged May 1968

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY %Cu	ASSAY %Ni
0.0	54.0	CASING			
54.0	68.0	LAMINAR ALBITIZED TUFF - Pale grey to greenish, f.g., fine laminar at 60°. Strongly albitized except for some greenish chloritic zones. Weakly silicified. 62.5 - Carb, chl shear at 25° with following 3 feet showing scattered blebs and traces po., py, heaviest at shear. 67.0 - 1' bleached zone with some epidote and a few small garnets.			
68.0	76.6	GREENSTONE - Grey green, f.g., massive, abundant flecks epidote. First 3" very fine grained, chilled contact, gradually changing to typical. Lower contact also seems chilled but only for 1"			
76.6	87.5	ALBITIZED TUFF - Grey green, f.g., in part laminar but poorly defined. Moderately fractured, some qtz carb filled. Scattered traces po, py. Last 3 feet chloritic, heavily fractured, contact lost. 81.3 - 6" greenstone at 40°.			
87.5	104.4	GREENSTONE - Grey green, f-med. gr., not typical, soft, carbonatized. Abundant qtz carb filled fractures. Scattered minor pyrite, traces po, cpy. 102.5 - A few patches pale brown sphalerite.			

Logged by T. Antoniuk

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
104.4	119.0	FAULT ZONE - In part breccia, core fairly broken. Abundant vuggy quartz stringers. Scattered traces po, py, Zns, cpy. Rocks chiefly albitized tuffs but may be in part greenstones as above. 110.2 - 1.3 feet chert, black, f.g.			
119.0	153.5	ALBITIZED TUFF - (MASSIVE??) - Grey to grey green, f.g., abundant fractures, strongly albitized and weakly s silicified. Core fairly broken. Scattered traces fine disseminated po and py throughout and an occasional trace cpy. 126.0 - Darker grey, cherty.(1 foot) 127.0 - 3' ground core 133.0 - 1' ground core 135.0 - 139.0 - 2' ground core 146.5 - 2.5 ' darker grey, cherty 152.0 - 1.5' quartz carb cemented breccia zone.			
153.5	161.4	MASSIVE ALBITIZED TUFF - Grey, f.g., heavily fractured. Some weak laminar sections. Scattered traces disseminated po, py.			
161.4	168.0	ALBITITE - White to pale grey, massive, almost pure albite. A few scattered darker seams with traces to minor po, py. Section ends with 2" fractured vuggy zone.			
168.0	257.0	MASSIVE ALBITIZED TUFF - Grey to grey green, f.g., abundant fractured, core fairly broken. A number of narrow qtz carb seams are near parallel to core, some containing angular fragments of wall rock. Heterogeneous rock, not typical, may include some mottled. 180.0 - 5' ground core 189.3 - 1.5' chert?? core badly broken. 195.0 - 6" breccia following which core becomes more massive, rapid gradational color changes.			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 2

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY % Cu	ASSAY % Ni
168.0	257.0	MASSIVE ALBITIZED TUFF - (Continued)			
		197.0 - 220.0 Small 1/8" clusters fine py scattered throughout. Larger masses generally have some associated po.			
		242.0 - Becoming more heavily fractured again.			
		246 $\pm$ - Possible fault zone. Core badly broken. Seems to be weakly cemented breccia.			
		255.0 - 1.5' ground core.			
257.0	263.5	ALBITITE - White to pale grey, f.g., a few scattered darker seams, abundant fractures, scattered traces py.			
263.5	275.5	MASSIVE ALBITIZED TUFF - Grey green, f.g., abundant fractures. Numerous qtz carb stringers. Gradually becoming darker green, chloritic?			
		274.8 - 2" heavy py in siliceous seam at 70° to core. Traces sphalerite at edges.			
275.5	284.0	FAULT ZONE - Rocks as above moderately to heavily chloritized. Abundant fractures, some qtz filled and many chl lined. Scattered traces po, cpy, py.			
		279.5 $\pm$ - Mud filled shearing at 40°, some quartz.			
		Sample: 282.0 - 284.0	633		0.01
284.0	316.4	MASSIVE ALBITIZED TUFF - Grey green, f.-med. gr., in general appears coarser than normal, albitization moderate, some silicification. In part has a dioritic appearance. Possibly weakly chloritic. Scattered traces po, py.			
		308.6 - 1' heavy brown garnets			
		312.4 - 1.5' moderate brown garnets.			
		Samples: 311.0 - 314.0			0.02
		314.0 - 316.4			0.01

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY % Cu	ASSAY % Ni
3164	332.7	ALBITIZED TUFF - MOTTLED ?? - Heteregenous rock not fitting any previous classification. Weak laminar at 60°, weak mottling in sections, some massive albitite, all gradational into one another. Pale grey - grey - greenish grey - green, f.g., scattered traces very fine po, py, very sparse.			
332.7	353.0	MASSIVE ALBITIZED TUFF - Grey - grey green, f.g., some weak mottling, heavily fractured. Some short sections weakly chloritic. Scattered traces py and occasional trace po. 337.0 - 2' ground core 342.0 - 5' " "			
353.0	372.0	INTERBEDDED ANDESITE AND ALBITIZED TUFF - Tuffs are pale creamy grey, f.g., heavily fractured, strongly albitized. Scattered traces po, py. Andesites are grey green, f.g., massive, moderately to heavily fractured. Weakly albitized in some sections. Contacts generally deformed or weak breccia (?), quartz filled. 353.0 - 353.8 - Andesite 356.7 - 357.4 - Andesite, moderate brown garnets, poorly formed, traces po, cpy. 358.3 - 359.1 - Andesite 361.0 - 363.0 - Deformed, shear zone at 15°, chl. 371.0 - Gouge filled shear at 60°.			
372.0	405.6	ANDESITE - Grey green, f.g., deformed, abundant quartz stringers and fracture filling. Weakly albitized in sections with some narrow bands possibly included tuffs. Banding is vague and varies from 50-70°. Last 7 feet moderately chloritic and moderately fractured. Scattered minor traces po, py, cpy.			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
405.6	468.0	MASSIVE ALBITIZED TUFF & Grey, f.g., hard brittle, heavily fractured, much fine quartz carb filling. Scattered traces py and occasional traces po.			
		411.0 - 4" Andesite, as above, v.f.g.			
		416.5 - 418.0 - Heavily chloritic andesite, v.f.g.			
		Samples: 424.0 - 428.0	636		Tr
		428.0 - 431.5	637		Tr
		439.5 - 440.5 - Core badly broken, fragments minly argillite.			
		448.0 - 6" Argillite, black, v.f.g.			
		451.2 - 3" "			
		458.0 - 462.0 - Fault zone. Sheared and deformed, some mud. Core badly broken. Trend of shearing seems to be 50°.			
		462.0 - 468.0 - Vague mottling.			
468.0	475.5	DEFORMED ZONE - ANDESITE ?? - Grey green, f.g., chloritic, abundant quartz fracture filling and stringers following deformation. A few fine seams po and traces py generally following deformation.			
475.5	499.0	ANDESITE - Grey green, f.g., weak albitization. Some short sections may be tuff. In part badly broken. Numerous quartz stringers.			
		494.0 - 499.0 - Fault zone, abundant chl slips, 50% recovery.			
		495.0 - 2' ground core.			
99.0	514.3	MASSIVE ALBITIZED TUFF - Grey - grey green, f.g. not typical, may be an albitized phase of above andesite. Abundant fractures and quartz stringers. Section ends with 1" quartz at 30°.			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 5

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
514.3	546.8	MOTTLED ALBITIZED TUFF - Grey green with pale purple mottles up to ¼" , typical. First 5 feet heavily fractured and carbonatized. Scattered blebs and disseminated po, cpy, traces py.			
		Samples: 519.5-522.0	638		0.08
		522.0 - 526.0	639	0.11	0.14
		526.0 - 529.0	640	0.01	Tr
		529.0 - 533.0	641		0.12
		533.0 - 536.0	642		Tr
		536.0 - 539.5	643		Tr
		539.5 - 543.0	644		0.08
		543.0 - 546.8	645		Tr
546.8	561.0	MASSIVE ALBITIZED TUFF - Pale grey - pale brown, almost albitite, heavily fractured. First foot moderately chloritic and contains 6" heavy po, minor py, traces cpy.	646		2.14
561.0	570.6	ANDESITE - Grey green, f.g., weakly chloritic, abundant fractures and quartz stringers.			
570.6	576.7	ALBITITE - Grey, glassy, massive, albitized tuff, heavily fractured.			
576.7	584.5	ANDESITE - Grey green, f.g., massive, weak albitization.			
584.5	656.0	ALBITITE - Grey - greenish, massive, glassy, hard, brittle. Abundant fractures. Occasional scattered traces po.			
		614 - 621.5 - Heavily fractured, some breccia filled shearing at 15° to core.			
		645.0 - 650.0 - Darker grey with flecks of chloritic material scattered throughout. Traces py & cpy			
		and one fine seam at 10° lined with cpy.			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 6

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
656.0	696.0	MOTTLED ALBITIZED TUFF (??) - Grey green, med. gr., not typical. Coarser grained than normal and mottling not as far advanced. Some sections resemble a syenite. Alteration erratic, possibly dependent on grain size of original tuff. Start of section badly broken but appears to be gradational. Gradual change to brownish with green chloritic (??) mottles up to 3/8". Scattered traces py, po. Gradational change back to more typical albitized tuffs.			
696.0	712.8	LAMINAR ALBITIZED TUFF - Bands up to 18", grey green, f.g., in part mottled, moderately fractured. Banding at 55° ?? Scattered bands contain minor po and/or cpy, traces py.			
		Samples: 689.5 - 700.5	647	0.67	Tr
		703.5 - 706.5	648		0.33
		709.5 - 711.0	649	Tr	Tr
712.8	739.2	ALBITIZED TUFF - In part mottled. Grey-greenish-pinkish - dark grey. In part may have been a coarse agglomerate. All strongly albitized so that features vague.			
739.2	749.1	GREENSTONE - Andesite?? - Grey green, f.g., massive. Upper contact test and lower contact irregular. Scattered minor disseminated pyrrhotite. Representative sample of best section: 740.0 - 743.0	650		Tr
749.1	761.5	DEFORMED LAMINAR ALBITIZED TUFF - White-various shades of green-grey, f.g., some fine laminar to bands up to 4". Weakly to moderately mineralized with po & traces py, cpy.			
		Samples: 749.1 - 753.5	651		Tr
		753.5 - 758.0	652		Tr
		758.0 - 761.5	653		0.01

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 7

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY %Cu	ASSAY % Ni
761.5	819.5	MOTTLED ALBITIZED TUFF - MINERALIZED - Silicified. grey-green, f.g., mottles brownish to purple, generally smaller than ¼" but occasionally up to ½". Some vfg albitite bands, possibly laminar. Mineralization erratic over first 20 feet then becomes moderate to heavy, mainly po but some cpy and traces sp py. Deformed, numerous slips show small displacement. 779.2 - fine mud seam at 60°.			
		Samples: 770.5 - 773.0	654		0.08
		779.2 - 784.0	655	0.78	Tr
		784.0 - 787.0	656	1.50	0.14
		787.0 - 790.0	657	0.51	Tr
		790.0 - 793.5	658	0.15	Tr
		793.5 - 797.0	659	0.19	Tr
		797.0 - 800.0	660	0.28	0.07
		800.0 - 803.0	661	0.17	0.05
		803.0 - 807.0	662	0.12	Tr
		807.0 - 811.0	663	0.29	Tr
		811.0 - 815.0	664	0.27	Tr
		815.0 - 819.5	665	0.28	Tr
819.5	848.0	FINE LAMINAR ALBITIZED TUFF - Some interbedded chert. Grey green, predominantly fine grained tuffs and black v.f.g. chert. Bandine at 55°. Tuffs are weakly mineralized with po in coarser bands and po follows fractures in finer bands. Traces cpy.			
		821.0 - 821.6 Fine laminar chert, black and grey.			
		823.7 - 824.3 " " " " " "			
		834.7 - 836.0 " " " " " "			
		Sample: 831.5 - 834.7	666		Tr
848.0	861.5	MOTTLED ALBITIZED TUFF - Grey green with purplish mottles. Not typical. Weakly to moderately mineralized with po and traces cpy. Heavily fractured, weakly chloritized and silicified.			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 8

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				% Cu	% Ni
848.0	861.5	MOTTLED ALBITIZED TUFF- (Continued) -			
		Samples: 848.0 - 852.0	667	0.13	Tr
		852.0 - 856.0	668	0.07	Tr
		856.0 - 860.0	669	0.13	Tr
		860.0 - 864.0	670	0.07	Tr
861.5	922.5	LAMINAR ALBITIZED TUFF - Grey green of various shades. Bands up to 2" at 55° with some sections weakly deformed. Weakly mineralized with po and traces cpy. Varying degrees of albitization seemingly dependent on grain size, finer grained more highly albitized. Mineralization follows banding or fractures.			
		Samples: 864.0 - 869.0	671	0.03	Tr
		869.0 - 874.0	672		Tr
		874.0 - 878.0	673	0.03	Tr
		878.0 - 882.0	674		Tr
		882.0 - 886.0	675		Tr
		886.0 - 890.0	676		Tr
		890.0 - 894.0	677		Tr
		894.0 - 898.0	678		Tr
		898.0 - 902.0	679	Tr	Tr
		902.0 - 906.0	680	0.03	Tr
		906.0 - 910.0	681	0.06	Tr
		910.0 - 915.0 (1.0' lost core)	682	0.19	Tr
		915.0 - 919.0	683	0.09	0.03
		919.0 - 922.5	684	0.15	Tr
922.5	940.3	DEFORMED ZONE (FAULT?) - Grey green, f.g., chloritic. Abundant quartz carbonate filaments following deformation. Relatively soft. Weakly albitized. Scattered minor po and traces cpy, py. Last five feet badly broken and seems more strongly chloritic.			
		Samples: 922.5 - 926.5	685		Tr
		926.5 - 930.5	686		Tr
		930.5 - 934.0	687	0.43	Tr

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				%Cu	%Ni
922.5	940.3	DEFORMED ZONE (FAULT?) - (Continued) -			
		Samples: 934.0 - 937.0	688	0.42	0.07
		937.0 - 940.3	689	0.15	Tr
940.3	945.0	GREENSTONE (ALBITIZED) - Pale grey green, f.-med. gr., not typical, weakly mottled, massive. No sulphides. A few quartz and quartz carbonate stringers. Weakly deformed.			
	945.0	END OF HOLE			

Logged by T. Antoniuk Hole Number 68-2 Sheet Number 10