

DIAMOND DRILLING



52J07SE0174 52J07SE0032B1 BOUCHER

010

Township: BOUCHER TWP.
 (Evans Lake)

Report No:

WORK PERFORMED FOR: Cumberland Resources Ltd

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
846418	<u>EL-86-1</u>	<u>345m</u>	86	
TOTAL	1 DH	345m		

NOTES:

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 LENGTH 345m
 LOCATION L21+25S 2+00E
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 225 DIP 50
 STARTED August 6, 1986 FINISHED August 15, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	50°		198	51°	
45m	56°		240	49.5°	
108m	52°		285	49°	
152	52°		321	47°	
			345	44°	

HOLE NO. EL-86-1 SHEET NO. 1

REMARKS _____

LOGGED BY Blair Kite

FOOTAGE		DESCRIPTION	SAMPLE				ANALYSIS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Cu %	Pb %	Zn %	Ag %
					FROM	TO	TOTAL				
0	4	Overburden									
4	10.5	Intermediate tuff; crystal tuff grey medium grained ash-crystal texture, mafic (biotite, amphibolite) eyes to 8 mm 15-20% homogenous, ash + crystal fragments to 3mm.	14668		9.00	9.25	0.25	29	4	59	.1
10.5	20.82	Intermediate tuff; crystal tuff grey matrix; gradational contact with above, over 30cm ash texture; mafic eyes to 3mm; 7-10% ash + crystal fragments to 3mm; local lapilli < 2% mafic eyes diffuse									
		12.96-13.24 silicified, sharp contacts, 1-2% pyrite		trace py							
		13.95-14.36 silicified, sharp contacts, 1-2% pyrite as above trace pyrite << 1%									
		20.6-20.85 2cm mafic vein parallel to core axis									
20.82	21.8	Intrusive, Silicification type alteration Siliceous, sharp contacts, small xenoliths of tuff Crystalline texture									
		pyrite to 3%, trace cpy and po	14669	3%py	21.0	21.5	0.5	123	9	79	.5
21.8	24.74	Intermediate tuff grey matrix, ashy texture, local biotitic eyes to 3%, 22.0 - 24 broken core									
		22.30-22.88 more mafic vein, homogenous, pyrite									

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag	As	
					FROM	TO						TOTAL
		23.22 mafic vein										
		23.32-23.75 broken core, altered dissem. pyrite		3% py								
		23.95-24.05 py. to 30% cpy in thin mafic seam	14670	1.3%	23.80	24.20	0.40	110	8	35	.6	2
24.74	27.26	Felsic, banded ash tuff <1cm bands; ash texture, siliceous; bands at 48° to core axis										
		25-26 pervasive quartz veining, pyrite fine dissem. in alterations; laminations to 3%, locally to 7%	14671									
			14672	3-7%	25	25.5	.5	197	17	66	.8	8
					26.5	27	.5	11	3	40	.1	14
27.26	28.86	Intense Silicification Siliceous, sharp contacts, very fine grained										
		pyrite to 7%, disseminated and in thin seam green mineral, sericite	14673		28.30	28.80	.5	30	6	10	.2	19
28.86	31.7	Felsic Tuff ash texture, homogenous closely packed fragments to 2mm										
		sericite pyrite disseminated, veinlets, nodules to 7%										
		29.34-29.50 quartz vein 29.10-29.80 silicified pyrite to 10%	14674		30	30.5	.5	42	5	34	.2	27
		31- pyrite decreases to 2% in seams										
31.9	32.2	Exhalite thin laminated silica and pyrite										
		pyrite to 10%	14675		31.80	32.3	.5	29	7	45	.1	20
32.2	33.5	Felsic Intermediate; Tuff altered Mottled texture; ash tuff alteration										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS	
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag
					FROM	TO	TOTAL		
		grades into felsic tuff as per 28.86							
		pyrite to 10%		10%					
33.5	36.0	Felsic tuff to Intermediate as per 28.86 homogenous ash texture							
		pyrite to 7 disseminated + veins dis appears at 36.0m	4676	py 7%	33.0	33.5	0.50		
36.0	47.0	Felsic - Intermediate Tuff Homogenous, ash texture as per 33.5-36.0 no bedding, crystalline local fragments to 4mm - 3% biotitic, relatively fresh pyrite = 0%	4677		36.0	36.5	0.50	33	5
		44.1 mafic vein approximately same orientation as core axis							
		2 amphiboles, < 1% pyrite							
		44.35 mafic vein as above							
		44.57 1cm wide veinlet; 20% disseminated pyrite, siliceous		cpy 1%					
		44.80 mafic vein as above, 1-2% pyrite							
		45.13 mafic vein, 2% pyrite							
		45.70 mafic vein, 1% pyrite							
47.01	47.15	Thin siliceous veinlets crystalline, green mineral, high angle to core axis							
		pyrite to 3%, trace cpy							
47.15	47.30	Cherty band very fine grained, cherty texture, massive, fractured		3%py	47.10	47.40			
		pyrite in fractures, disseminated 3%							

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SULPHIDES	FOOTAGE			Cu	Pb	Zn	Ag	As
					FROM	TO	TOTAL					
47.30	54.23	Felsic tuff fine ash texture, homogenous, biotitic, grades into ash texture, fragments 2-3mm weak sericite 47.40-47.52 cherty band, 1% py 47.76-47.80 cherty band, 1%py, trace cpy 47.94 mafic vein trace py 48.30 mafic vein trace py 48.71 mafic vein trace py 48.89-48.96 cherty band, trace py 49.15 mafic vein 51.39 mafic vein 52.95 mafic vein 53.17-53.20 mafic vein, pyrite to 3%	14678	trace cpy	47.70	48.0	0.3	47	6	58	.4	14
54.23	54.87	Exhalite, banded, recrystallized chert, pyrite laminated, cherty (not ashy), fine disseminated pyrite to 5% crystals < 1mm, pyrite in 1-2mm bands, laminations at 60° angle to core axis pyrite in thin laminations to 5% fine disseminations	14679	py to 5% 5%	54.20	54.7	0.5	37	9	31	.3	17
54.87	57.49	Pyrite nodule, tuff ash texture, pyrite nodules, felsic nodules grade to 2% through 56-57m pyrite total down to 2% sericite, pyrite nodules to 2cm, fine disseminated pyrite to 7-10% 56.10-.21 quartz vein	14680	py to 7% 7%	55.0	55.5	0.5	60	9	22	.3	21
57.49	57.70	Exhalite, cherty with weak lamination weak laminations < 1cm pyrite in irregular bands trace fractured nodules < 1% pyrite to 3% disseminated, irregular bands, sericitic	14681	py to 3% 3%	57.4	57.70	0.30	16	5	18	.2	24

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DIAMOND DRILL RECORD

NAME OF PROPERTY: Savant Evans Lake

EL-86-1

HOLE NO. _____

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		As		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag			
					FROM	TO	TOTAL	→	→	g-ton	g-ton	ppm
57.70	59.30	Tuff, felsic with pyrite nodules ash texture, pyrite nodules to 2% 57.80-57.94 quartz vein, nodules, disseminated, banded pyrite to 5% sericitic 58.53-58.67 very sericitic pyrite to 7%, nodules		5-7% py								
59.30	59.88	Sericitic pyrite nodule tuff Ash texture, homogenous felsic, pyrite nodules to 1cm, 5-7% sericitic, pyrite to 5-7%	4682	5-7% py	59.3	59.80	0.5	29	8	9	.3	25
59.88	60.11	Felsic tuff ash texture, fine grained, biotitic weak sericite, pyrite to 2%		2%								
60.11	60.2	Bedded ash tuff with pyrite nodules ash texture, fine beds 1-8cm at 60° to core axis pyrite nodules 3-5% sericitic, pyrite nodules, disseminated 3-5%, locally to 10% 61.47-61.52 exhalite - 1cm chert pyrite 62.75-62.81 exhalite as above 63.30-63.13 as above, pyrite nodules, cpy		3-5%								
		64.50-64.75 py nodule tuff, intense sericite	14683	10% py	63.0	63.5	0.5	46	2	62	.4	21
65.6	67.21	Pyrite nodule tuff fine ash texture, homogenous nodules to 1cm, elongate occasionally fractured pyrite 3-10%, weakly sericitic	14684	3-10%	66.0	66.5	0.5	49	8	50	.2	24

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Cu	Pb	Zn	Ag	As	Na ₂ O
					FROM	TO	TOTAL						
		66.87-66.92 exhalite, cherty with disseminated pyrite, 7% 67.52, speck cpy											
67.21	70.2	Pyrite nodule tuff, bedded felsic tuff, beds to 3-4 cm, nodules, disseminated pyrite sericitic beds, nodules to 5%, locally to 10% to 2cm, elongate	14685		69.5	70.0	0.5	42	5	35	.3	22	
70.2	72.04	Felsic tuff ash texture, biotitic, homogenous, pyrite <2% 71.0-71.15 pyrite nodule, tuff, sericitic		2% 1%									
72.04	72.87	Laminated ash ash textured laminations altered with cherty textured laminations, laminations ~ 5mm at 70° to core axis pyrite disseminated in laminations to 3% biotitic 73.25-73.30 quartz vein		3%									
72.87	73.44	Felsic to intermediate tuff homogenous, ash texture, biotitic											
73.44	74.67	Felsic tuff (unit 2-3c) ash tuff texture banded texture, thin veinlets of mafic-pyritic, quartz-carb locally altered, network veinlets, pyrite in bands or veinlets to 3%, <1% nodules <1cm		3%py									

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DIAMOND DRILL RECORD

NAME OF PROPERTY SEVERAL DYKES, LEAS.
 EL-86-1
 HOLE NO. _____ SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		As	Au, O		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag				
					FROM	TO	TOTAL			→	←	←	←
74.67	75.33	Felsic tuff homogenous texture 75.18-75.28 silicified, sericitic vein											
75.33	78.48	Felsic tuff Banded as per 73.44 local nodules < 1% pyrite to 3%	14686	3% py	76.0	76.5	0.5	35	7	55	.3	19	
78.48	78.54	Cherty banded exhalite cherty laminations < 1cm wide pyrite to 2%	8828		78.4	78.6	.2	17	20	31	.9	-	1.05
78.54	79.46	Felsic tuff ash texture, biotitic locally sericitic, altered in seams to 2cm disseminated pyrite, pyrite nodules to 3%											
79.46	79.71	Laminated ash exhalite laminated < 1cm, pyrite in bands to 5%, trace Au, granular texture 79.71-79.76 quartz vein	8826	5%	79.4	79.8		43	9	63	.4	-	-
79.71	79.91	Pyrite nodule tuff felsic ash texture, pyrite nodules to 3% elongate, broken up network quartz carbonate veins		3%									
79.91	80.10	Laminated ash exhalite as per 79.46 2-3% pyrite, < 1mm laminations	14687		79.90	80.40	0.5	29	7	94	.4	20	

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Ag	As	Na	
					FROM	TO						TOTAL
80.10	83.50	Pyrite nodule, tuff and lapilli tuff Ash texture, local lapilli, siliceous, to 6cm 7-10% Pyrite nodules to 3%, <1cm often with silicates in a fragment, local disseminated pyrite biotite Gradation contact with below Network quartz carbonate alteration local cpy.Au - 81.64 disseminated py to 2% 82.74-82.81 exhalite lam. ash with py, cpy to 10%	4688	to 5%	82.70	82.85	0.15	62	7	89	.4	17
83.50		Fine ash tuff with local pyrite nodules fine ash texture, felsic-intermediate Banded (bedded) at 3-4cm scale, biotitic pyrite locally as seams, disseminated to 15%, <2cm pyrite beds Sericitic horizons fine disseminated pyrite to 2%, nodules, very elongate <2% to 84.5 - fine disseminated py to 5% to 86.32 - fine disseminated py to 2% 86.32 pyrite nodules to 3%, trace cp 87 - nodule with cp 86.6-87 disseminated py 87-88 - 2-3% nodules <1cm -<2% disseminated py network carb veinlets 88-89 2% disseminated py, bedded ash beds ~ 3cm 89-90 sericitic, disseminated, banded py to 5%	14689	to 5%	86.0	86.5	0.5	28	10	37	.3	26
90	91	Crystalline, ash texture, sericitic pyrite 3-5%										
91	92	Ash texture, disseminated py down to <<1%, fractured py nodules to 3%, with cp, Au, sericitic weak, local lapilli to 1cm.	14690		90	90.5	0.5	31	10	205	.6	18
92	93	<2% pyrite, nodules, seams, disseminated, grade out at 93 ash tuff										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL86-1 SHEET NO. 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO	% SULPH IDES	FOOTAGE		Cu	Pb	Zn	Ag	As ppm	
					FROM	TO						TOTAL
93	94	Ash tuff as above, pyrite 2-3% disseminated, nodules to 1%, <1cm; thin exhalite, chert, banded pyrite at 93.51 - 93.57 93.88 - 93.94										
94	95	Bedded - laminated tuff, pyrite locally to 10% disseminated ashy, cherty and pyritic beds; exhalite 93.88-95.0	14691		94.0	94.5	0.5	29	9	43	2	27
95	96	Exhalite - ash continues; pyrite 5-7%, locally 10% local nodules < 1cm.										
96	97	96.07 - 96.20 good cherty exhalite, very fine pyrite 2-3% 96.20 ash tuff 1-2% fine disseminated pyrite										
96.20	98.40	Ash tuff Felsic Ash texture, mottled banding, beds local sericite pyrite to 2%, disseminated, concentrated in more mafic seams, similar to thin mafic veins 97.73-97.90 very sericitic	14692		98.0	98.5	0.5	8	4	38	.1	18
98.40	98.51	Sericitic, pyritic tuff (exhalite)										
98.51	99.10	Felsic tuff laminated ash texture, lamination ~ 1cm siliceous sericitic, pyrite to 2%		2%								
99.10	101.90	Felsic tuff fine ash texture, homogenous becoming strongly altered at 101.9, pyrite to 2% moderate sericitic, silicified, alteration locally py - nil to trace										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1

SHEET NO. 10

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		As		
FROM	TO		NO.	% SULPHIDES	FOOTAGE		→	→	g/t	g/t		
					FROM	TO	TOTAL				ppm	
101.9	104.1	Rhyolite tuff, Biotite seams Felsic, fine ash texture 5-10% biotite seams or veinlets Sericitic	14693		102	102.5	.5	3	9	36	.2	4
104.1	108.5	Altered felsic tuff Crystalline fine grained, foliated, local fragments quartz eyes 2-3%, 2mm grey-blue very sericitic, silicified pyrite to 3% disseminated and veinlets to 1mm 108; intense sericitic alteration pyrite to 1-2%, fine disseminated	14694		106	106.5	0.5	17	11	21	.2	22
108.5	109.78	Sericitic schist sericitic schist, 2-3% quartz eyes intense alteration micaceous (sericitic, green mica) veinlets <2mm										
109.78	111.14	Felsic tuff, quartz porphyritic Relatively fresh 2-3% quartz eyes, blue fine grained ash texture pyrite to 1% disseminated local sericite	14695		110	110.5	0.5	14	10	30	.3	25
111.14	113.2	Altered felsic, tuff, quartz porphyritic sharp contact quartz eyes 2% ash texture biotite 7-15%, eyes or aggregates sericitic 2-3% disseminated pyrite										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

EL-86-1

SHEET NO. 11

HOLE NO. _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag	As	
					FROM	TO						TOTAL
113.2	115.6	Mottled alteration; Felsic tuff; quartz porphyry sharp contacts, 2% quartz eyes 48° to core axis 113.5 - end - mottled; intense altered patches grading in relatively fresh tuff py disseminated, thin veinlets 2%										
115.6	116.2	Felsic: Rhyolite flow Aphanetic, massive <1% quartz eyes sericitic pyrite, cpy to 5% along cleavage planes	14696		115.5	116.0	.50	9	11	8	.7	26
116.20	121.53	Felsic: felsic to intermediate tuff Ash texture, biotite "eyes" to 5mm, 7-10% locally grades to felsic-intermediate quartz eyes 2% to 1mm grey blue 120 - quartz eyes increase to 3-5%, blue to 2mm local sericite, trace disseminated pyrite 119.10-119.56 weak sericitic alteration, gradational, pyrite to 1% 120.5-120.9 weak alteration, gradational as above pyrite to 1%										
121.53	125.10	Altered Felsic volcanic - tuff; quartz porphyritic gradational contact over 5 cm quartz eyes 3-5% as above local biotite sericitic alteration, weak silicification pyrite to 3% locally light green mica in veinlets	14697		122	122.25	0.25	16	10	41	.4	11

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

EL-86-1

12

HOLE NO. _____

SHEET NO. _____

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		A ₁
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag	
					FROM	TO	TOTAL			g/t
125.10	127.27	Ash tuff; Felsic to intermediate ash texture, biotitic, homogenous locally sericitic; mottled texture pyrite disseminated to 3% trace nodules <1%, <1cm 127.11-127.26 altered, sericitic pyrite 1-2%, trace cpy								
127.27	128.32	Lapilli tuff siliceous, diffuse lapilli, fragments elongate, to 7% biotite mottled, sericitic alteration pyrite to 2%, trace cpy								
128.32	128.53	Carbonate altered tuff fine ash texture network carbonate veins and alteration halo								
128.53	129.90	Fine ash tuff; felsic to felsic-intermediate homogenous ash texture biotitic, trace to 1% garnet								
129.90	131	Felsic tuff to pyrite nodule tuff sharp contact ash texture, local siliceous lapilli to 1%, local pyrite nodules to 1% <1cm, fractured biotite. pyrite to 5-7% locally concentrated in bands of more sericitized rock, sericitic alteration has banded or mottled texture; grading from fresh to sericitic								

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 13

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS		As		
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag			
					FROM	TO	TOTAL			ppm		
131	132	Pyrite nodule tuff Ash texture, <1cm pyrite nodules to 1% Sericitic, more altered than above; biotite <2% in fresher bands, gradational pyrite disseminated to 5-7% trace cpy		5-7%								
132	133	Pyrite Nodule tuff Ash texture, homogenous biotite, homogenous distribution 3-5% pyrite nodules to 1cm. more prominent at base, to 3% with biotite rim, fractured sericitic; evenly distributed										
133	134	Felsic tuff, trace nodules ash texture, pyrite nodules grade out <<1% mottled texture biotite in alternating, gradational bands with sericite sericitic bands with gradational contacts give mottled texture pyrite to 5% disseminated trace cpy										
134	135	Felsic tuff Ash texture, homogenous, mottled locally laminated ash biotite has increased in amount, evenly distributed sericitic alteration as above 7% pyrite disseminated 1% cpy	14698		134.2	134.7	0.5	19	9	37	.8	35

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1

SHEET NO. 14

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Ag		As
					FROM	TO			TOTAL	0.1-10m	
135	136	<p>Felsic tuff Ash texture, more mottled, on smaller scale bands biotite to 7% rare nodules</p> <p>sericitic alteration pyrite to 7% locally trace cpy</p>									
136	137	<p>Felsic tuff Ash texture, mottled, as above gradational to biotitic tuff at 137</p> <p>sericitic pyrite 2-5% 136.6 quartz vein</p>									
137	145.07	<p>Mottled altered ash tuff ash texture, bands of sericite alteration with gradation contacts grading into biotitic ash tuff 143-145.07: local siliceous lapilli to 1% :1% pyrite nodules</p> <p>Strong gradational sericitic alteration, often with light green mica pyrite <1% locally grading to 3-5% 139-139.5 3% py, trace cpy 141.5-142.5 3% pyrite</p>									
145.07	150.9	<p>Altered lapilli tuff with pyrite nodules Siliceous lapilli, elongate to 1.5cm, matrix support altered matrix occasional pyrite nodules ~ 5mm .2% local biotitic matrix</p> <p>sericitic, alteration, disseminated pyrite to 2% trace cpy becoming more intensely altered at 148-149m.</p>									

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DIAMOND DRILL RECORD

Savant Evans Lake

NAME OF PROPERTY _____

HOLE NO. EL-86-1

SHEET NO. 15

FOOTAGE		DESCRIPTION	SAMPLE				Cu	Pb	Zn	Fe	Ag	As
FROM	TO		NO.	% SULPHIDES	FOOTAGE			-	-	-----	-----	ppm
					FROM	TO	TOTAL					
150.9	156.76	Mottled altered ash tuff As per 137-145.07 ash texture, mottled sericitic alteration local lapilli; siliceous, diffuse biotitic <1% pyrite nodules pyrite to 3% quartz veins 155.10-155.22 155.50-156.15 156.62-156.76 all quartz veins associated with amphibole, pyrite										
156.76	157.76	Fine grained tuff - felsic fine ash texture 1% pyrite nodules <1cm. 2-1% disseminated pyrite										
157.76	163.26	Felsic and Felsic-intermediate lapilli tuff lapilli: fragments to 1.5cm, elongate matrix support, biotitic matrix, locally sericitic; weakly disseminated pyrite to 1% <1% pyrite nodules 161.90-162.38 intense sericite / silica alteration pyrite to 2% 163.26-164.15 intense alteration										
164.55		Felsic lapilli tuff altered Siliceous lapilli fragments to 2cm elongate, poor sorting very altered matrix matrix support, fragments to 15% biotitic, sericitic pyrite 1-2%										

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DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1

SHEET NO. 16

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL			0/100m	0/200m	
164.55	181.58	cont'd biotitic matrix, siliceous lapilli to 7% disseminated pyrite to 1% sericitic: weak 167.86-168.45, silicified strongly sericitic at 168.45 grades into fine ash tuff; biotitic with 2-3% lapilli at 168.75 grades back into siliceous lapilli tuff as above weak mottled alteration, and carbonate alteration pyrite trace to nil after 168 175.05-175.4 silicified sericitic, sharp contacts mottled alteration siliceous, sericitic 175.4-176 pyrite to 2% disseminated bands, sharp contacts at 176.07-176.35 176.42-176.45 176.60-176.80 178.7-180.10 very broken core, 90% recovery 179.90-180.25 pyrite to 3%, biotitic, altered								
181.58	189.85	Felsic, Altered tuff, lapilli tuff ash and siliceous lapilli to 15% sharp contact very little to nil biotite 2-1% quartz eyes to 3mm sericite, silicification is weak to moderate ash texture: homogenous, grading locally to lapilli tuff: fragments to 1cm 184.03-184.09 cherty band with up to 5% pyrite trace cpy disseminated pyrite trace to 1% weak to moderate sericite locally strong around narrow quartz veins < 1cm.								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1 SHEET NO. 17

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHUR	FOOTAGE			G	S	A
				FROM	TO	TOTAL				
189.85	194.67	Mottled alteration in felsic tuff; lapilli tuff ash texture, local lapilli biotite appears in matrix altered, sericitic rock occurs in gradational bands weak sericite overall, strong alteration in mottled grading bands foliated, often with thin biotite streaks <1mm: mottled bands at: 189.82-190.10 pyrite to 1%, biotite, green mica 190.91-190.97 intense sericite 191.12-191.21 moderate sericite, biotite, py to 1% 191.26-191.31 as above, sericite, biotite 191.59-191.66 weak diffuse alteration with a quartz carbonate vein 191.89-191.92 strong sericite 192.80-194.68 grades into fine, weakly silicified material; local carbonate veins and carbonate alteration, pyrite disseminated to 2%								
194.67	196.09	Mottled, moderately altered lapilli tuff lapilli to 1 cm. siliceous 7-10% granular, ash matrix with biotite and disseminated pyrite to 2% 194.84-194.92 silicified, sericitic crystalline		2%						
196.09	196.48	Weak sericitic alteration and a quartz vein								
196.48	201.19	Ash tuff with mottled alteration ash texture closely packed trace biotite moderate sericitic matrix grading into bands of intense alteration; sericite, silicified, pyritic								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 18

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag	As	
					FROM	TO						TOTAL
		Altered bands at: 197.03-197.07 weak siliceous, trace py 197.11-197.18 quartz amphibole, trace py vein 197.19-197.33 intense sericitic alteration 197.70-198.13 gradation alteration and quartz vein with amphibole, trace py 198.20-199.07 diffuse, intermixed weak alteration 199.07-200.74 sharp contacts with strong silicified, sericitic alteration, pyrite to 5% in irregular stringers 200.74-201.19 trace garnet, biotitic										
201.19	209.05	Intense silicification, sericitic, pyritic, thin local veinlets to 5mm sphalerite with galena silicification sericite pyrite 10-15% disseminated in veinlets sphalerite in thin veinlets	14699	5%	200	200.5	0.5	60	28	627	1.8	141
		201-202 crystalline, moderate alteration pyrite disseminated to 5% 10% in seams and nodules / patches	8709		201	201.5	0.5	72	38	199	1.8	9
		202-203 202.04-202.08 sphalerite, pyrite-galena crystalline, strong alteration, light green mineral	8710		202	202.5	0.5	63	403	24387	5.3	80
		202.28-202.30 very thin sphalerite veinlets (2mm)	8711		203.5	204	0.5	17	35	2252	.9	73
		203-204 Intense sericitic alteration, thin py veinlets 203.77 sphalerite veinlet <4mm pyrite to 15%										
		204-205 Intense alteration, relict lapilli, pyrite to 5% .67-.88 black mineral in thin veinlets and patches to 1% not sphalerite	8712		204	204.5	0.5	44	18	317	.7	52
		205-206 intense alteration, pyrite in veinlets to 1cm 205.36 py, black mineral vein	8713		205	205.5	0.5	22	9	19	.5	86

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

 NAME OF PROPERTY Savoy Evans Lake
EL-86-1

HOLE NO. _____

 SHEET NO. 19

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Zn	Ag	As		
					FROM	TO	TOTAL				g-ton	g-ton
		206-207 Intense alteration, disseminated py <1% 8 veins to 5mm, disseminated py to 35-40% trace cpy	8714		206	206.5	0.5	36	8	64	.6	34
		207-208 Intense alteration, disseminated pyrite to 1% 1- good 3mm veinlet with cpy, local patches <1cm with cpy 2-3%	8715		207	207.5	0.5	64	10	51	.7	40
		208-209 alteration grades out disseminated py to 3%, trace cpy	8716	3%	208	208.5	0.5	105	13	265	.6	6
			8717		209	209.5	0.5	47	38	169	1.2	4
209.05	211.68	Felsic, biotite eye, tuff, weak alteration Ash texture, homogenous, gradational contact with above mafic, amphibole veins <1cm, 2% weak local alteration disseminated pyrite <<1% 211.05-211.12 altered										
211.68	214.60	Strong silicification, sericitic alteration, locally mottled with biotite, fresher volcanic Fairly sharp contact, biotite disappears over granular texture, relict ash Sericitic, silicification disseminated and thin veinlets of py to 7-10% trace cpy local mafic veins to 1cm										
		212-213 mafic veinlets spotty disc and veinlets to 10% py										
		213-214 altered, sericitic, silicified, disseminated py to 5%, fine local biotitic patches	8718		213	213.5	0.5	31	38	56	.8	35
		214-215 intense alteration: sericite grading to weaker alteration at \approx 214.60 in altered disseminated and irregular veinlet, pyrite 5-7% -in less altered: biotite, ash texture, py to 3-5%										

LANGRIDGES -- TORONTO -- 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 20

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	SULPH IDES	FOOTAGE			Cu	Pb	Zn	Ag	As Na ₂ O	
					FROM	TO	TOTAL						
214.60	217.04	Mottled alteration in Felsic to Intermediate tuff Ash texture with grading, mottled bands of alteration biotitic seams with pyrite grades into relatively fresh biotitic, felsic to intermediate tuff Sericite, silicified, green mica disseminated pyrite to 2%	827		214	214.5	0.5	27	17	20	1.3	—	2.12
			828		216	216.5	0.5						
217.04	222.24	Felsic to Intermediate tuff ash texture, homogenous biotitic, local lapilli to 1 cm. elongate mafic veinlets and patches to 1cm disseminated pyrite to 1% 221-222 2% biotite eyes 3-4mm											
222.24	226.18	Mottled altered tuff felsic to intermediate, ash texture 2-3% biotite eyes grading into sericitic, moderately silicified tuff ash texture local mafic patches pyrite to 1%	829		224	224.5	0.5	34	23	74	.9	—	.76
226.18	229.28	Felsic to intermediate tuff Ash texture, homogenous, local blue crystals < 2mm quartz to 2% grey colour mafic veining staurolite											

LANGRIGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 EL-86-1 SHEET NO. 21
 HOLE NO. _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					Na ₂ O		
FROM	TO		NO.	SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag		As	
					FROM	TO			TOTAL	oz ton		oz ton	ppm
229.28		Mottled alteration As described above, grading bands	8830		229	229.5		28	26	129	9	—	.96
		sericite, silicification, local green mica 230.42-230.46 pyrite to 30%	8831		230	230.5		29	18	70	1.1		1.04
	231.54	Alteration, pyrite to 7-10% sericite, grades to felsic-intermediate											
231.54	246.4	Felsic to Intermediate tuff (unit 2) Ash texture, biotitic, homogenous, consistent to 242											
		pyrite to <<1% occ. mafic veinlets 244 pyrite disseminated to 2-3% 245 pyrite to 5-7% grading into stronger alteration, trace py		5-7% tr/cpy									
		246 mottled alteration 7-10% py, trace cpy pyrite as irregular veinlets to 3mm-5mm and nodules	8719		246	246.5	.5	59	130	72	1.4	33	
246.4	250.68	Altered volcanic; silicified, sericitic pyritic unit with pyrite nodules	8720		250	250.5	0.5	45	55	125	1.	51	
		Bleached white in color											
		silicified, sericitic, pyrite 10-15% nodules - crystalline gangue and pyrite 248.5-249 py down to 3-5% 249.5-250 py 3-5% 250-251 py 3-5% 250.46 trace sphalerite											

LANGRIDGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 EL-86-1
 HOLE NO. _____ SHEET NO. 22

FOOTAGE		DESCRIPTION	SAMPLE			Cu	Pb	ASSAYS			Na ₂ O		
FROM	TO		NO.	SULPHIDES	FOOTAGE			Zn	Ag	As			
					FROM	TO	TOTAL				ppm		
250.68	256.23	Felsic to Intermediate tuff; Mottled Alteration ash texture, homog., biotitic Mottled, gradational bands of increasing sericitic alteration at 252.40-252.70 closely packed < lcm mafic veinlets 253-254 disseminated pyrite to 2%	8721		255	255.5	.5	40	32	74	1.3	9	
256.23	258.25	Strong sericitic, silicified, pyritic zone sharp contact homog., foliated, bleached sericitic, silicified trace cpy to 1% pyrite disseminated, in veinlets and patches to 7-10%	8722		257	257.5	.5	108	98	5903	1.8	63	
258.25	260.73	Felsic tuff; mottled alteration ash texture, homogenous strong mottling as described above biotitic at base becoming strongly silicified, pyrite to 1% disseminated pyrite to 1%											
260.73	265.29	Felsic, pyrite, nodule tuff, altered ash texture silicified, sericitic, trace cpy nodule < lcm, to 10% with dark biotitic, chloritic rim 261-262 biotitic / chloritic 261.4 cpy 262.5 increasing silicification, sericitization pyrite down to 3-5% 264.5-265 7%py nodule with py / sphalerite trace cpy with disseminated pyrite	8723		261	261.5	0.5	30	29	63	1.2	16	
			8732		264.5	265	0.5	5	17	21	1.2	13	1.14

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL-86-1 SHEET NO. 23

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			Cu	Pb	AZn	Ag	As. No.	
					FROM	TO	TOTAL						ppm
265.29	265.75	Altered Felsic tuff; lapilli tuff Ash texture with lapilli; very elongate sericitic / chloritic alteration											
265.75	267.87	Felsic tuff; lapilli tuff biotite veinlets << 1% locally weak sericite in mottled alteration											
267.87		Felsic; very fine tuff or coarse flow Crystalline, massive biotite veinlets 5-10% <1mm looks like close packed siliceous lapilli quartz eyes to 1% homogenous sericitic, locally silicified trace biotite locally <1% pyrite pervasive, weak sericite biotite eyes from 283, 3-2mm to 3% 291.55-63 291.74-80 sericitic, intense alteration 291.85 - 1.90	8833		277	277.5	0.5	13	11	101	.4	1	1.31
302.9		Altered Felsic volcanic homogenous, fine grained local quartz eyes 2-3% 289-295m veinlets decreased to 3-5% biotitic eyes go to 2% sericitic to weak altered 299.10-299.40 stronger alteration, sericitic pyrite <1% to nil	8724		292	292.5	0.5	25	17	117	.4	2	

LANCERIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake
 HOLE NO. EL86-1 SHEET NO. 24

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag	As	
					FROM	TO						TOTAL
302.9	314.32	Strong alteration, very bleached biotite eyes and veinlets disappear 1-3mm light grey quartz eyes to 2% homogenous strong silicification sericitic trace to 1% fine disseminated pyrite 303 2% biotite eyes 306.86 sericite schist, strong sericitic with light 307.25 green sericite at 308 becoming mottled with biotitic areas biotite eyes grade in to 3-5% sericite alteration	8725		310	310.5	0.5	10	7	94	.2	2
314.32	314.78	Altered felsic biotite veinlets as above sericitic, trace pyrite										
314.78		Felsic to intermediate, ash tuff ash texture biotitic, homogenous weak altered local mafic veinlets										
319.75	322.98	Felsic tuff fine ash texture homogenous, biotitic quartz carbonate veining and halo alteration disseminated pyrite <1% weak alteration 321.9-322.05 silicified, sericitic pyrite to 25% quartz vein within alteration										

LANGRIGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evans Lake

HOLE NO. EL-86-1 SHEET NO. 25

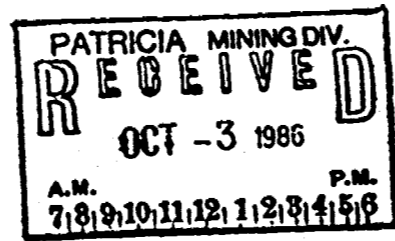
FOOTAGE		DESCRIPTION	SAMPLE			Cu	ZPb	Zn	SAYS	Ag	As	Na ₂ O
FROM	TO		NO.	% SULPHIDES	FOOTAGE							
					FROM	TO	TOTAL					ppm
322.98	323.22	22 Gradational alteration Silicified, sericitic pyrite to <<1%										
323.42	323.43	43 Felsic tuff ash texture as above local lapilli to 1%, ~1cm weak sericitic alteration										
323.43		Mottled, altered tuff pervasive alteration moderate silicification, sericitic grading locally to fresher tuff trace pyrite Mottled, Altered tuff alteration, sericitic 3-5% biotite eyes to 2mm quartz eyes to 2mm < 2% 325.5-326.50 fresh 328.84-329.20 fresh 329.80-330.05 fresh 325.63-325.83 silicification, alteration halo around 5mm veinlet 326.11-326.28 silicification, alteration around veinlet as above pyrite < 1% at 330 becomes entirely sericitic, silicified, biotite eye alteration pyrite trace intense alteration locally 339.45-334.70 granular, relict ash texture; fragment, close packed local mafic veins-1cm, over box < 1%	8726	324	324.5		13	11	44	.3	2	
			8834	335	335.5	0.5	9	10	46	.3	.92	

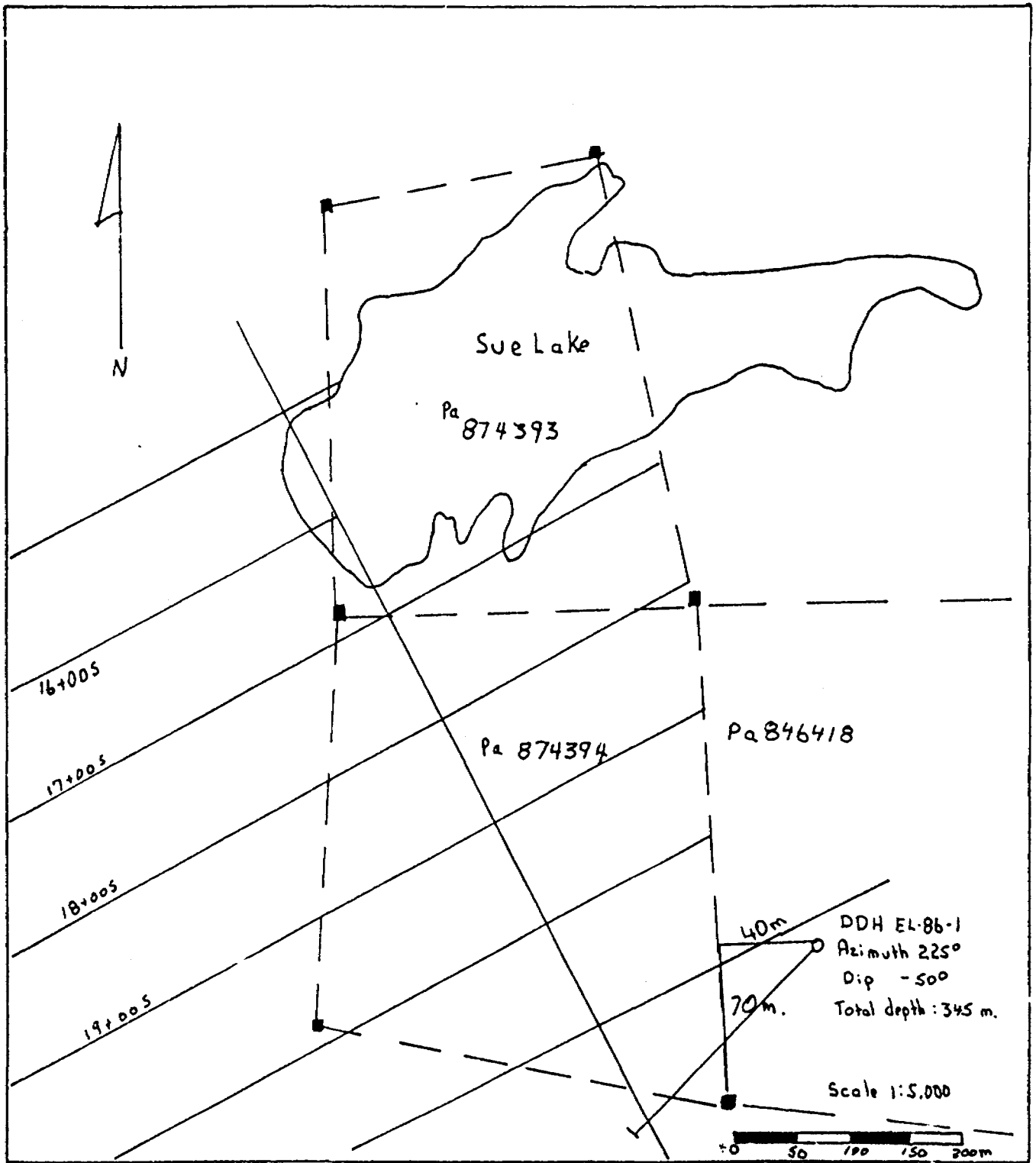
LANGRIDGES - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Savant Evals Lake
 HOLE NO. EL-86-1 SHEET NO. 26

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SULPHIDES	FOOTAGE		Cu	Pb	Zn	Ag	As	
					FROM	TO						TOTAL
337	345	Biotite eyes to 3mm 5-7% relict ash texture, fine matrix trace pyrite to 1% weak sericitic alteration, weak silification locally stronger 338.80-339.05 stronger alteration pyrite 5-7% 339.17-339.20 pyritic horizon; 30% disseminated gradational contact										
	345	weak moderate alteration trace pyrite	8827		344	344.5	0.5	5	9	47	.2	2
345	✓	END OF HOLE										



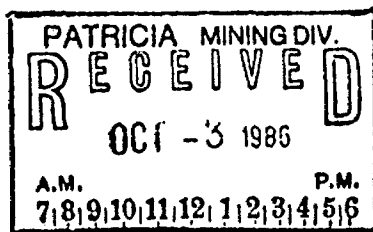


Cumberland Resources Ltd.

Evans Lake Project

Location Map
DDH EL-86-1

Blair Hill





52J07SE0174 52J07SE0032B1 BOUCHER

900

Ministry of
Natural
ResourcesReport
of Work#86-148
52 J/07 SE (117)
Mining ActInstructions - Supply required data on a separate form for each
type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report
of Work (Geological, Geophysical, Geochemical and
Expenditures)".

Name and Postal Address of Recorded Holder Cumberland Resources Ltd. 74 Winnipeg Ave., Thunder Bay, Ont., P7B 3P9	Prospector's Licence No. T- 1303 EVANS LAKE G-2031 BOUCHER TWP. MILL 4
---	---

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 1131	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only)	PA	836300	24						
<input type="checkbox"/> Manual Work		list attached							
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.		total 47 claims							
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.									
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

All the work was performed on Mining Claim(s): PA 846418, PA 874394

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond Drilling BQ core recovered (3.5 cm diameter)
Hydraulic core drill
St. Lambert Drilling Co. Ltd.
Box 473,
Valleyfield, Quebec
J6C 4V7
Aug. 6-15/86

TOTAL DAYS 1131 days
USING #148 1128 days
BALANCE 3 days

836300
Pa. ~~846418~~

RECORDED

PATRICIA MINING DIV.
RECEIVED
OCT - 3 1986
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

Date of Report Oct. 2/86
Recorded Holder or Agent (Signature) W. McCrindle

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
William E. McCrindle, 74 Winnipeg Ave., Thunder Bay, P7B 3P9

Date Certified Oct. 2/86
Certified by (Signature) W. McCrindle

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

Telephone
(807)344-6598

Cumberland Resources Limited

74 Winnipeg Avenue,
THUNDER BAY, ONTARIO
P7B 3P9

October 2, 1986

Cumberland Savant Project- Evans Lake Joint Venture
Evans Lake Claim Map G-2031 / Boucher Twp. Map M-1664
Diamond Drill Hole EL-86-1

Attached are the location plan and the drill core log.

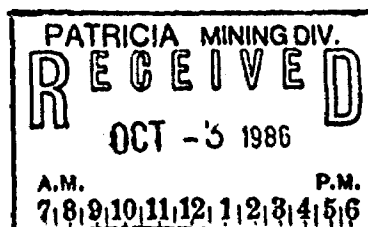
The purpose of drill hole EL-86-1 was to provide detailed stratigraphic information at depth to better define the alteration zone and the exhalite horizon observed during the detailed geological mapping and to correlate to the stratigraphy determined in drill hole numbered EL-86-3 and EL-86-2 300 and 150 meters north respectively. It was hoped that the stratigraphy would better define the location of possible massive sulphide mineralization in this favourable volcanogenic environment.

The core is stored at the core shack on the property.

Respectively submitted by



W.E. McCrindle, P. Eng.
Project supervisor



NEW EVANS LAKE - SAVANT

Location: Evans Lake G-2031, Patricia Mining Division, Ontario
Ownership: by agreement dated June 1/83
Cumberland Resources Ltd. 50%
Redfern Resources Ltd. 25%
Vestor Explorations Ltd. 25%
Registered: in name of Cumberland Resources Ltd. Feb. 21/86
Recorded: Feb. 4/86

PA836300

PA844700

PA845319
PA845320
PA845321
PA845322

PA873588
PA873589
PA873590
PA873591
PA873592
PA873593
PA873594
PA873595
PA873596
PA873597
PA873598
PA873599
PA873600

345 meters drilled in DDH EL-86-1
or 1131 feet(days)

apply 24 assessment days to each of the
47 claims listed on this page

PA874351
PA874352
PA874353
PA874354
PA874355

PA874381
PA874382
PA874383
PA874384
PA874385
PA874386
PA874387
PA874388
PA874389
PA874390
PA874391
PA874392
PA874393
PA874394
PA874395
PA874396
PA874397
PA874398
PA874399
PA874400

Registered: in name of Cumberland Resources Ltd. Feb. 26/86
Recorded: Jan. 2/86

PA873773
PA873774
PA873775

