

DIAMOND DRILL RECORD

862438

860123

NAME OF PROPERTY HEARNE HILL
 HOLE NO. 91-02 LENGTH 350'
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION As 89-2 AZIMUTH 100° DIP 75°
 STARTED _____ FINISHED _____

METRES	DIP	AZIMUTH	METRES	DIP	AZIMUTH

HOLE NO. 91-02 SHEET NO. 1 of 4
 REMARKS IN FEET

LOGGED BY H. SMIT

METRES FEET		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	% SULPHIDES	METRES FEET			Cu%	Au g/t	Pb oz/TON	Zn oz/TON	RECOVERY	
					FROM	TO	TOTAL						
0	13	OVER BURDEN											
13	59	<p>FERDSPAR PPy, ALTERED PALE BROWNISH-GREY; APHANITIC MATRIX WITH 20 TO 40% WHITE FELD. PHENOS UP TO 4mm; MOSTLY SUB TO BUHEDRA. NO MAFICS VISIBLE (ALTD OUT?); FELD PHENOS SOFT. RUSTY FRACTURES. MATRIX MOD HARD, APPEARS TO BE WEAK TO MOD. SPALIC +/- CLAY ALTD WITH SOME CARBONATE; NON MAGNETIC; OCCASSIONAL BRECCIA ZONES UP TO 5cm WIDE WITH OPEN SPACES AND ABUNDANT CARBONATE - PY-CPY (~5% OF CORE). [WEAK BRECCIA ZONE]; WEAK FRACTURES WITH CARB-PY-CPY; NO DISSSEM SX OBSERVED</p> <p>(13-25) PITTED; WEATHERED; MALACHITE</p> <p>(37-39.5) VOLCANIC?; FINE GRAIN, GREY; MOD 2mm WIDE GREY QZ2 STRS; 20% VULNY CARBONATE WITH MINOR CPY, PY; CONTACTS TO INTERVAL ARE BROKEN; ABUNDANT CARBONATE => APPEARS TO BE A FRAGMENT; POSSIBLY ENTIRE INTERVAL IS BRECCIA WITH LARGE BLOCKS.</p> <p>(41-49) VERY BROKEN CORE; 50% RECOVERY; MINOR MALACHITE; MINOR PY, CPY DISSEMIN FRAGS OF HIGH ALT FLD PPy / GOUNG; NO BIG PATCHES OF SX BUT MAY BE WASHED AWAY; MINOR VOLC. LOOKING PIECES</p> <p>(49.5-50.5) VOLC LOOKING; CONTACTS BROKEN</p> <p>(50.5-56.5) FELD PPy; MIN SX</p> <p>(56.5-59) VOLC LOOKING; 3% SX</p>											
			HH201		13	20	7	3.254	0.41	0.012			13-20 60%
			202		20	30	10	1.238	0.06	0.002			20-41
			203		30	40	10	0.904	0.04	0.001			90%
			204		40	50	10	1.668	0.68	0.020			41-49
			205		50	59	9	0.788	0.01	0.001			90%

DIAMOND DRILL RECORD

NAME OF PROPERTY HEARNE HILL
 HOLE NO. 91-02 SHEET NO. 2 of 4

METERS FEET		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	METERS FEET			Cu%	Au g/Ton	Au oz. TON	OZ. TON	RECOVER
					FROM	TO	TOTAL					
59	281	<p>BRECCIA ; MINERALIZED</p> <p>EXTENSIVE ZONE OF BRXX; HIGHLY VARIABLE CLAST SIZE; TYPICALLY 0.5 TO 5CM ANGULAR FELD. PPY AND VOLC. CLASTS IN A CARBONATE AND SX (CPY+PY) MATRIX; SOME AREAS WITH MM SIZE CLASTS; SOME ROCK FLOUR MATRIX; GENERALLY CLAST SUPPORTED; SOME 10 TO 40 CM CLASTS, OFTEN FRACTURED WITHIN; CLASTS OF GOOD PORPHYRITIC FELD. PPY; BROWNISH-GREY APHANITIC VOLCANICS? AND FINE GRAIN GREY ROCK WHICH MAY BE VOLCANIC OR ELSE ALTR PPY WITH THE FELD PHENOM'S OBSCURED.</p> <p>- CLASTS ARE SERIC ± S:1 ± CARB ALTR; MINOR WELL-ROUNDED CLASTS.</p> <p>- MINOR DISSEM PY, ESP. IN VOLCANIC? CLASTS; ABUNDANT CPY+PY IN FRACTURES AND MATRIX</p> <p>- MATRIX IS VERY VULGY THRU-OUT; COMPOSED OF YELLOWISH CARBONATE (FERRO-DOLOMITE?). LARGE (UP TO 5CM) PATCHES OF CPY AND LESSER PY; CARB. AND PY EUMERAL CRYSTALS COMMON IN VULGS</p> <p>→ OPEN SPACE FILLING; SUGGESTS HIGH-LEVEL OF EMPLACEMENT DURING MINERALIZATION</p> <p>- MOST COMMON SEQUENCE APPEARS TO BE CARB - CPY - PY BUT THIS RELATIONSHIP NOT ALWAYS CONSTANT OPEN</p> <p>- DUE TO ABUNDANT VULGS (15% DECREASING TO 5% OF CORE) CORE IS QUITE BROKEN, BUT RECOVERIES REMAIN GOOD THROUGH-OUT (95%+) NO PREFERRED ORIENTATIONS.</p> <p>- UPPER CONTACT OF ZONE @ 1/2-20° TO ZONE; MAY JUST BE WHERE FRAGS GET SMALLER; ABOVE MAY BE BRECCIA W/ LARGE FRAGS.</p> <p>- 10% DECREASING TO 5% SX</p> <p>- IN PLACES CAN PUT FRAGS TOGETHER, OTHER PLACES FRAGS OF DIFFERENT SHAPE, CITHOLOGY</p> <p>- GREY VOLL INTR FRAGS > VOLL 7 PPY</p>	206		59	70	11	3.403	0.64	0.019		
			207		70	80	10	2.873	0.65	0.019		59-281
			208		80	90	10	4.080	1.88	0.055		95%+
			209		90	100	10	3.633	1.71	0.050		
			210		100	110	10	2.981	0.74	0.022		
			211		110	120	10	3.803	1.57	0.046		
			212		120	130	10	3.010	0.64	0.019		
			213		130	140	10	3.795	0.66	0.019		
			214		140	150	10	3.221	0.20	0.006		
			215		150	160	10	3.745	0.51	0.015		
			216		160	170	10	1.327	13.75	0.401		
			217		170	180	10	1.933	0.68	0.020		
			218		180	190	10	0.969	0.38	0.011		
			219		190	200	10	0.493	0.13	0.004		
			220		200	210	10	0.630	0.18	0.005		
			221		210	220	10	0.612	0.42	0.012		
			222		220	230	10	1.709	1.30	0.038		

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY, HEARNE HILL
 HOLE NO. 91-02 SHEET NO. 2 of 4

METRES FEET		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	METRES FEET			Cu%	Au g/Tonne	Au oz./TON	OZ./TON	RECOV
					FROM	TO	TOTAL					
59	281	<p>BRECCIA; MINERALIZED</p> <p>EXTENSIVE ZONE OF BRXX; HIGHLY VARIABLE CLAST SIZE; TYPICALLY 0.5 TO 5CM ANGLAR FELD. PPY AND VOLC. CLASTS IN A CARBONATE AND SX (CPY+PY) MATRIX; SOME AREAS WITH MM SIZE CLASTS; SOME ROCK FLOUR MATRIX; GENERALLY CLAST SUPPORTED; SOME 10 TO 40CM CLASTS OFTEN FRACTURED WITHIN; CLASTS OF GOOD PORPHYRITIC FELD. PPY; BROWNISH-GREY APHANITIC VOLCANICS? AND FINE GRAIN GREY ROCK WHICH MAY BE VOLCANIC OR ELSE ALTZ PPY WITH THE FELD PHENOA'S OBSCURED.</p> <p>- CLASTS ARE SERIC ± S:1 ± CARB ALTZ; MINOR WELL-ROUNDED CLASTS.</p> <p>- MINOR DISSEM PY, ESP. IN VOLCANIC? CLASTS; ABUNDANT CPY+PY IN FRACTURES AND MATRIX</p> <p>- MATRIX IS VERY VULCY THRU-OUT; COMPOSED OF YELLOWISH CARBONATE (FERRO-DOLOMITE?); LARGE (UP TO 5CM) PATCHES OF CPY AND LESSER PY; CARB. AND PY EUBEDRAL CRYSTALS COMMON IN VULS</p> <p>→ OPEN SPACE FILLING; SUGGESTS HIGH-LEVEL OF EMPLACEMENT DURING MINERALIZATION</p> <p>- MOST COMMON SEQUENCE APPEARS TO BE CARB - CPY - PY BUT THIS RELATIONSHIP NOT ALWAYS CONSTANT OPEN</p> <p>- DUE TO ABUNDANT VULGS (15% DECREASING TO 5% OF CORE) CORE IS QUITE BROKEN, BUT RECOVERIES REMAIN GOOD THROUGH-OUT (95%+) NO PREFERRED ORIENTATIONS.</p> <p>- UPPER CONTACT OF ZONE @ 1/2-20° TO ZONE; MAY JUST BE WHERE FRAGS GET SMALLER; ABOVE MAY BE BRECCIA W/ LARGE FRAGS.</p> <p>- 10% DECREASING TO 5% SX</p> <p>- IN PLACES CAN PUT FRAGS TOGETHER</p> <p>OTHER PLACES FRAGS OF DIFFERENT SHAPE, CITHOLOGY</p> <p>- GREY VULG WITH FRAGS > VULG & PPY</p>	206		59	70	11	3.403	0.64	0.019		
			207		70	80	10	2.873	0.65	0.019		59-281
			208		80	90	10	4.080	1.88	0.055		95%+
			209		90	100	10	3.633	1.71	0.050		
			210		100	110	10	2.981	0.74	0.022		
			211		110	120	10	3.803	1.57	0.046		
			212		120	130	10	3.010	0.64	0.019		
			213		130	140	10	3.795	0.66	0.019		
			214		140	150	10	3.221	0.20	0.006		
			215		150	160	10	3.745	0.51	0.015		0.706 150'
			216		160	170	10	1.327	13.75	0.401		
			217		170	180	10	1.933	0.68	0.020		
			218		180	190	10	0.969	0.38	0.011		
			219		190	200	10	0.493	0.13	0.004		
			220		200	210	10	0.630	0.18	0.005		
			221		210	220	10	0.612	0.42	0.012		
			222		220	230	10	1.709	1.30	0.038		

DIAMOND DRILL RECORD

NAME OF PROPERTY: HEARNE HILL
 HOLE NO. 91-02 SHEET NO. 3 of 4

METRES FEET		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	METRES FEET			CU %	AU g/tonne	AU OZ/TON	OZ/TON	RECOY
					FROM	TO	TOTAL					
59	281	<p>BRECCIA MINERALIZED (CONT.) MINOR SOFT WHITE VUG FILLING (SERICITALL?) (189-190) MISSING; MEMBR SAMPLE (209-210) MISSING (218-220) MISSING (260-281) LESS BRECCIATED; STILL MIXED VOLC, GREY VOLC LINTA; PPY; SOMEWHAT MORE PPY; ONLY MINOR VUGS. 3 TO 5% CPY > PY -LOWER CONTACT IRREGULAR @ MOD. L TO C.A.</p>	223		230	240	10	0.639	0.32	0.009		
			224		240	250	10	0.707	0.26	0.008		
			225		250	260	10	0.462	0.07	0.002		
			226		260	270	10	0.371	0.15	0.004		
			227		270	281	11	0.515	0.19	0.006		
281	339	<p>FELDSPAR PPY; ALTERED 40 TO 60% FELD PHENOS IN A BUFF TO LIGHT BROWN MATRIX; FELD SOFT ⇒ MOD SERIC ± CLAY ALT²; 10% MED. BROWN PATCHES → ALT² MARICS? MOSTLY MASSIVE, FAIRLY COMPETENT; PHENOS 1 TO 4 mm 3 TO LOCALLY 5% DISSEM PY, 1 TO 3% DISSEM CPY THRU-OUT; MINOR SX ON FRACT AND IN HAIRLINE QTZ STRS; RARE MOLY WITH QTZ STRS; MINOR DISSEM SPECULAR HEMATITE NOTE: DISSEM. SO MUCH MORE COMMON HERE THAN IN FRAGS WITHIN BRXX ZONE (281-293) SOME BRECCIATION; MINOR VOLC FRAGS; VERY MINOR VUGS WITH CARBONATE AND CPY, PY; ONE VOLC FRAG 2cm LONG IS WITHIN FELD PPY; → XENOLITH NOT BRECCIA FRAG → THIS ZONE MAY BE CLOSE TO A VOLC/ PPY CONTACT. (329-330) MISSING.</p>	228	3 TO 8%	281	290	9	0.695	0.21	0.006		281-339
			229		290	300	10	0.303	0.17	0.005		95%
			230		300	310	10	0.467	0.08	0.002		
			231		310	320	10	0.710	0.01	3.001		
			232		320	330	10	0.248	0.07	0.002		
			233		330	339	9	0.132	0.03	0.001		

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

HOLE NO. 91-02

SHEET NO. 4 of 4

METRES Feet		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	METRES FEET			CU %	AU g/ton	AU oz/ton	OZ/TON	Recovery
					FROM	TO	TOTAL					
339	350	<p>BIOTITE - HBLD FELDSPAR PPY</p> <p>30 to 40 % FELD PHENOS (to 4mm) mostly ± 2mm in a grey matrix; up to 20% HBLD to 3mm and up to 5% Bi. GRADATIONAL CONTACT WITH ABOVE UNIT AND PROBABLY JUST LESS ALTERED VARIETY. MASSIVE, COMPETENT</p> <p>- FELD. STILL WEAKLY ALT^d AND MODERATELY SOFT</p> <p>MINOR FINE MED. BROWN PATCHES (CARBONATE?); MINOR QTZ ± CARB STES & 4mm wide with narrow (< 1cm) ALT^d ENVELOPES</p> <p>- 3 to 5% DECREASING TO 1 to 2% DISSOLV SE; PY > CPY, TRACE MOLY, MINOR DISSOLV & PECULAR HEMATITE</p> <p>- PLACES WITH VERY FINE BIOTITE → LOOKS 2nd day</p> <p>E.O.H.</p>										
			234		339	345	6	0.305	0.07	0.002		339-350 100%
			235		345	350	5	0.238	0.09	0.003		
	350											

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