

PROJECT

PROPERTY: HARTLESS JOE

Easting	Northing	Elev.	Depth (m)
515127	6852234		

HOLE: HJ08-03

Contractor: BEUDIN DIAMOND DRILLING INC.
Drill: JKS SUPER-300

Core size: BTW
Casing depth: (m) out

Drilling dates:

Logged by: Doug Eaton

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	110	45	Brunton				

Target: Gold and silver rich talus and strong topographic linears suspected of being vein faults.

[illegible]

SAMPLES	
Numbers:	
Total:	
Date sent:	

	COMMENTS
	The hole crossed major faults and was stopped because of danger of losing rods.

DRILL HOLE LOG
PROPERTY-HARTLESS JOE

Hole: HJ-08-03

Zone:

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PROPERTY-HARTLESS JOE

E Northing: 6752154

Easting: 515206

Elevation:

Depth:	0.00
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Drilling Dates: JULY 5-9/08

Logged by: M P PHILLIPS

Dip: -45°

Length: 167.34 m Core Size: BTW Casing: 3.05 (m) in/out

Azim: 200°

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB		SX	PY	MN	LI	BD	FR	ZN	(m)	(m)	(m)	Number					
			0.00	3.05	3.05	CASN																				

DRILL HOLE LOG

PROPERTY-HARTLESS JOE

Hole: HJ-08-03

Zone: _____

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Northing: _____

Easting: _____

Elevation: _____

Drilling Dates: _____

Logged by: _____

Length: _____

Core Size: _____

Casing: _____ (m) in/out

Depth: _____

Dip: _____

Azim: _____

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB		SX	PY	MN	LI	BD	FR	ZN	(m)	(m)	(m)	Number					
			16.77	18.90	2.13	MUDS	X	0	< 1	< ?		0	0	0	< T	35	M	L								
			18.00	18.90	0.90	SILT	X																			
			to 18.00m - as previous; below der blk md thin bedss for pale orange bwn med thin md gradually becomes coarser - silt size; SILT - < 10% blk md																							
			18.90	19.90	1.00	SILT	X	0	< 1	< ?		0	0	0	< T	-	M	L	18.90	19.90	1.00	G087311				
			19.38	19.90	0.52												S									
			Silt - pale-med orange, minor partings gray md; below 19.38 to let strong fr; cont - < 0.5mm; color silt due to intrusive; let 70%?																							
			19.90	21.04	1.14	PPQZ	X	< 1	< W	< T		0	< L	0	< T		S	T	19.90	21.04	1.14	312				
							B																			
			PPQZ - pale orange, 5% to 2mm qz phn, intense microfr - minor br near bottom; weak fr phn; wk cy + car on weathered fr; Qzvt < 3mm acc run py-lwks; vts displaced by fr; Py-fr, cracks & cm qzvt; Cbvt - pale orange 0.5mm																							
			21.04	23.77	2.73	PPFQ	X	< 2	< T	< L		? < L	< T	< L		A	0	21.04	23.77	2.73	313					
			PPFQ - pale orange to pale gray orange, fr ~ 15% fine grnd alt to cy - MS? Qzvt 0.5mm - 10mm, most < 1, der to let, rare li; Py - most to li, v wk fr-cracks; Cbvt - bnvt definite, white assoc qzvt																							
			23.77	26.22	2.45	PPFQ	X	< L	< L	< L		D	T	B	L	< L	< L	A	0	23.77	26.22	2.45	314			
			25.45	26.22	0.77												W									
			PPFQ - as above, to let fr phn finer; 24.90-5cm bc-br, 55°; 25.45-btm fr-A; Qzvt der - most < 1mm, rare py(w) rim; Py - assoc qzvt, most dry fr-cracks; cb - weath fr & rare with qzvt; li - most looks ex very fine py.																							
			26.22	27.52	1.30	PPFQ	X	< L	< W	< ?		D	T	B	L	< L	< L	W	0	26.22	27.52	1.30	315			
			PPFQ - as above, hyp rock palegy; Qzvt - v wk < 0.5mm; Py - crack & dis - very fine btm cnt 15°; PPFQ - may include hb? - but altered new altered to sericite																							
			27.52	29.88	2.36	CONG	30	< W	< ?		0	D	L	0	0		S	S	27.52	28.20	0.68	316				
						SAND	70												at 28.20	Blank		317				
			Cong - granule to medium pebble, all small pebble size, blk carb ls, md & volc SAND - fine-coarse sand & grit size matrix																					Sample		

DRILL HOLE LOG

PROPERTY: HARTLESS JOE

Hole: HJ-08-03

Zone: _____

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Northing: _____

Easting: _____

Elevation: _____

Drilling Dates: _____

Logged by: _____

Length: _____

Core Size: _____

Casing: _____

(m) in/out

Depth: _____

Dip: _____

Azim: _____

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN			(m)	(m)	(m)	Number		
			29.88	31.10	1.22	CONG X	0	< 1	0			0	DL	< T	< T	-	S	S								
						SAND 30																				
						as previous																				
			31.10	32.00	1.22	CONG X																				
			32.00	32.32	6.32	MUDS X	0	< L	0			0	0	0	< T	45	M	S								
						Cong & SAND - as previous; MUDS - thin interbedded black carb md & orange colored md - as seen at 13.41m - 45°																				
			32.32	33.17	0.85	MUDS X	0	< L	0			0	0	0	0	40	M	S								
			33.17	35.06	1.89	CONG X																				
						MUDS - as above, becomes silty btm half; Cong - blk carb & blk cherty md, volc. & minor dk to lt gy ch; SAND in part, strong volc.																				
			35.06	38.11	3.05	CONG X	0	< W	0			0	DT	0	0	0	W	S								
						SAND 10																				
						Cong - lt green volc, gray & blk ls, md - blk & gray - blk chert max 1m. SAND - mainly pale green volc.																				
			38.11	39.25	1.14	CONG X	0	< L	0			0	DT	0	0	0	W	S								
						SAND 10																				
						Cong - as above & 5NM h, as above, i.e. blk silty calc md																				
			39.25	39.63	0.38	CONG X	0	< 2	0			0	0	0	< T		M	T								
						SAND 10																				
						- rock lt bwn - blk - sup?, 101fr & ca vt																				
			39.63	42.68	3.05	CONG X	< L	# 2	< L			0	BL	0	< T	-	A	T								
						SAND 10		< 2																		
						Cong - greenish gy, & light bwn sup on fr - w. ca - matrix - br - narrow irreg 2vt; QZ - vt = cb; below 42.20 - blk lt bwn; v.l. c. l. o. s. to 1m.																				

DRILL HOLE LOG

PROPERTY-HARTLESS JOE

Hole: HT-08-03

Zone: _____

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Northing: _____

Easting: _____

Elevation: _____

Drilling Dates: _____

Logged by: _____

Length: _____

Core Size: _____

Casing: _____ (m) in/out

Depth: _____

Dip: _____

Azim: _____

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN			(m)	(m)	(m)	Number		
			42.68	43.46	0.78	FAUL X	0	0	#40			0	0	0	0	-	X	S								
						VL02																				
						VL - pale orange bwn; Cb-matrix filling - white to v. pale orange ~40°																				
						VK - insitu below 40.58 (?); br - cb flooding matrix cong?																				
			43.46	45.73	2.27	VL02 X	0	0	<3			0	D	T	0	0	-	S	S							
						VL - blk, pale orange; fr(s) cbvt to 2mm; VL? - possible clast in cong. VL02?																				
			45.73	48.78	3.05	CONG X	<W	<L	<5			0	0	0	0	-	S	S								
						SAND OS												W								
						Cong - blk, pale orange to 46.30, below grey green; frder below 46.30																				
						Cb - up to 25mm at top der below, to <2mm, rare ± qz ± aa; CONG																				
						looks like boulder size clasts v/ - Cb-occ fr pale orange; Qzvm - 25mm																				
			48.78	51.83	3.05	VL02 X	0	#1	>L			0	<L	0	<L	-	W	S								
						VL02			<1																	
						VL - VL02? - v fine grnd, 15cm band any qz; ca filled <2mm; near btm 30cm																				
						blk, cn around up to 10mm Cbvm; blk shr (cl?) often aa; Cong?																				
			51.83	54.88	3.05	VL02 X	<L	K2	<L			0	0	0	<T	-	W	S								
						VL med green, shr bands <2mm - 25mm - dk color often ca - fair																				
						Ca stk - icr to let; Cbvt + qz in wk blk VL;																				
			54.88	57.93	3.05	VL02 X	>L	#7	<W			0	0	0	<L	-	S	T			54.88	56.40	1.52	G 087318		
									>																	
						VL med green, below 56.40 patches fair blk below 57.25 blk orange bwn.																				
						icr br to btm - on cong matrix?; 40° shr - up to 25cm common; strength ca matrix																				
						Qzvm - 10mm; Cbvm to 10mm																				
			57.93	58.50	0.57	VL02 X	<L	<W	<W			0	0	<L	<W	-	S	T			57.93	58.50	0.57	320		
						VL - pale green - wk blk pale orange near btm cnt; Cbvt - white <3mm ± qz																				

DRILL HOLE LOG

PROPERTY: HARTLESS JOE

Hole: HJT-08-03

Zone:

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Northing:

Easting:

Elevation:

Drilling Dates:

Logged by:

Length:

Core Size:

Casing:

(m) in/out

Depth:

Dip:

Azim:

Visual Log			From	To	Interval	Unit	Alteration and Mineralization																From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN			(m)	(m)	(m)	Number		
			58.50	60.63	2.13	FAUL X	0	0	0			0	0	0	<L	-	X	0			58.50	60.63	2.13	G087321		
						VL02 X																				
						FAUL - v/2 at 6m. md; shra strong br.																				
			60.63	60.78	0.15	VEIN X	V50	<L	V20			0	0	0	0	-	X	S			60.63	60.78	0.35	322		
						MUDS.30																				
						6m ont approx; VEIN-QZ-CB (70%) in blk carb md; carb highly broken;																				
			60.78	60.98	0.20	CHER X	>5	0	>2			0	0	0	0	-	X	S								
						highly broken; CHERT minor vls & blk carb md; rock br - wk lqz+cb MV.																				
			60.98	61.59	0.61	CHER X	>5	0	<2			0	0	0	0		X	S			60.98	61.59	0.61	323		
						MUDS.5																				
						Recovery - 0.27m; ~0.15m dkgy chert upto 7cm, remainder core intense broken - br, minor md-blk carb; qz+cb(w) MV;																				
			61.59	62.20	0.61	FAUL X	0	0	0			0	0	0	0		X	S			61.59	62.20	0.61	324		
						Recovery 0.25m; looks like fit zone - most v fine frg (clasts) in clay-silt matrix; ls - blk - redrill pieces, few fragments of ppqz; cnt ppqz																				
			62.20	62.80	0.60	PPQZ X	0	0	<3			0	<L	0	0		M	S			62.20	63.11	0.91	325		
						Recovery 0.30m; PPQZ - not typical wk (<1%) qz phn (<1mm) in av. fine grained matrix, wk pinked & core <1cm inclusions - chert & mudstone cbwt <1mm; blk wt - very fine py - wavy crack filling																				
			62.80	63.11	0.31	PPQZ X	0	0	0			0	<L	0	0		A	S								
						Rec 0.15m; much rock looks like conc-blk ls & md sch; qz phn not common, matrix fine grained.																				

Rec 0.35m

100%

0.27m

0.25

0.45m

PROPERTY-HARTLESS JOE

Hole: HJ 08-03

Zone:

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Nothing:

Easting:

Elevation:

Drilling Dates:

Logged by:

Length:

Core Size:

Casing: (m) in/out

Depth:

Dip:

Azim:

Visual Log			From	To	Interval	Unit	Alteration and Mineralization														From	To	Interval	Sample		
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN	(m)	(m)	(m)	Number				
			69.79	71.32	1.53	CONG X	0	<	W	<	W		0	D	L	0	0	-	A	S	69.79	71.32	1.53	G087333		
						SAND 40																				
						Cong - ls-md & pale orange volc (ait) & med green volc - up to 30cm diameter																				
			71.32	73.46	2.14	CONG X	<	T	<	3	0		0	D	T	0	0	0	M	S						
						SAND 20																				
						Cong - pale green volc - up to 1.5m, blk carb md & ls;																				
			73.46	75.29	1.83	CONG X	0	<	2	0			0	D	T	0	0	0	M	S						
						SAND 10																				
						Cong - volc - mostly, pale green to 1m, minor md, SAND - mainly clay - silt size matrix;																				
			75.29	77.75	2.46	CONG X	0	<	W	<	W			0	D	T	0	0	0	M	S	75.29	77.75	2.46	334	
						SAND 40																				
						Cong - md - blk & lgy v thick bed, up to 75cm, blk ls & volc; SAND looks in part clay - silt size md & ls; carb on shr - 7mm;																				
			77.75	78.33	0.88	PPFQ	0	<	2	0			0	D	L	0	0	0	M	S	77.75	78.33	0.58	335		
						PPFQ - light gy to v pale orange (fr); wk anhedral fine occ 2mm f x phn; minor qz phn - fine; vct 25°; matrix phn - very fine grained; py - xl, fine grained																				
			78.33	80.47	2.14	PPFQ	0	<	W	<	L			0	W	0	<	T	-	M	S	78.33	80.47	2.14	336	
						PPFQ - der. v wk, f x phn, x wk to 3mm qz phn; Py - 1cr in blk v fine py on irreg fr																				
			80.47	82.30	1.83	PPQZ	0	<	W	<	T			0	W	0	<	T	-	A	S	80.47	82.30	1.83	337	
						PPQZ - der faint phn f x to lcr, 1cr qz phn to 5mm w 1mm; fr 1cr often slk; der. blk fr v fine py; since 77.75 - fine xl diss > fr py and 2nd type fr only. blk very fine py - in part sx?																				

PROPERTY-HARTLESS JOE

Zone:

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Nothing:

Easting:

Elevation:

Drilling Dates:

Logged by:

Length:

Core Size:

Casing:

(m) in/out

Depth:

Dip:

Azim:

Visual Log			From	To	Interval	Unit	Alteration and Mineralization														From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SX	PY	MN	LI	BD	FR	ZN	(m)	(m)	(m)	Number		
			92.66	93.90	1.24	VL01	X	0	<L	>L		0	0	0	0	-	X		92.66	93.90	1.24	G087345		
			93.90	93.10	0.10	FAUL	X																	
			VOLC - med-pale green 1cr ble to btm - light bwn - FAUL ±10cm br-bc.																					
			93.90	94.49	0.59	VL01	X	0	0	<L		0	<?	0	0	0	X	0	93.90	94.49	0.59	346		
			93.90	94.49	0.59	FAUL	X																	
			VOLC - pale-med orange; FAUL - looks mainly like a bc-as. veinlets -veins show little displacement;																					
			94.49	97.54	3.05	FAUL	X	/	/	/			?	0	0	0	X	0	94.49	97.54	3.05	347		
			94.49	97.54	3.05	VL01	X																	
			FAUL below 9510 from bc to br - < 3mm av. clefts in a crushed rock matrix, 40-50° shr; 10cm band ble undisturbed volc - misplaced core?																					
			97.54	98.70	1.16	VL01	X	<L	<T	<I		0	0	0	DT	0	A	T	97.54	100.58	3.04	348		
			98.40	98.70	0.30	FAUL	X										X							
			97.75-FAUL-10cm, br.; FAULs - br, pale orange;																					
			98.70	100.58	1.88	VL02		<W	<2	<3		0	DT		0	0	M	S						
			VL - med green, often eolitic; 2cm pillows - amygdaloidal; db vt der to let covt. to 5mm.																					
			100.58	103.63	3.05	VL02	X	<W	<2	>W		0	DT		0	-	W	S	100.58	103.63		349		
			VL - med-dk green, amygdaloid 2 pillows 1cm - 8cm diameter in dk green matrix-cl?; chrtv - up to 15mm + qz - in shr volc.																					
			103.63	106.68	3.05	VL02	X	0	<I	0		DT				-	W							
						CHERT	/		PL															
			VOLC - dk green gray; amygdaloid - ca-cl filled, spots to 8cm pillows; chert in pillow matrix - weak in 5 to 25cm bands;																					

DRILL HOLE LOG
PROPERTY-HARTLESS JOE

Hole: HT-08-03 Zone: _____

Zone: _____

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PROPERTY-HARTLESS JOE

Northing:

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Drilling Dates:

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Core Size:

Casing:

(m) in/out

Depth:

Dip:

Azim:

Visual Log			From	To	Interval	Unit	Alteration and Mineralization													From	To	Interval	Sample		
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB		SH	PY	HN	LI	BD	FR	ZN	(m)	(m)	(m)	Number				
			106.68	109.73	3.05	VL02 X	0	< 1	0			DT	0	0	-	W	S								
						CHER, 50																			
						Vh - pale green & dk green gy; fair band 35cm to 50% irreg thin bds of chert																			
			109.73	112.78	3.05	VL02 X	0	< 1	0			DT	0	0	-	W	S	110.25	111.50	1.25	G087350				
			111.29	111.41	0.12	VEIN X	P 90	P 5	0			< L					To								
						VEIN - volc. inclusions, lat to 2" & vct irregular; 110.33-110.82 - band ~ 7% sh 40-50° up to 1cm qz ± cavt, wk shr around qzvt - start of qzvn Vh - interbedded dk gy green & pillows (to 10cm) often amygdales																			
			112.78	115.82	3.04	VL02	> W	K 2	> W			DT	0	0	-	W	S								
						Vh - pale green pillows in blk green matrix - phn, amyg & oolites to 5mm; Qzmv < 10mm, ± ca ± cb(?); Cbm v - 1cm; 50° pale orange; cavt - stk (wk)																			
			115.82	118.87	3.05	VL02	0	K 2	0			DT	0	0	-	W	S								
								P L																	
						Vh - med green & dk green gy - amyg & oolitic to 3mm - pale green & wk; ca - stk (w) to 10mm at 1-2mm; pervasive band vl.																			
			118.87	121.92	3.05	VL02 X	< T	# 2	0			DT	0	0	-	W	S								
			119.50	120.49	0.99	CHER X																			
						VOLC - wk < 5cm pillows, lt med green; Bl. o shr - 10° - 0-2mm ca + qz; CH - lt gy to blk, in part replacing vl, fr with ca filling; ca - sh + to stk to bc filling																			
			121.92	124.97	3.05	VL02 X	0	K 4	0			DT	0	0	-	W	S								
						Vh - med green, pillows to 1.5m; ca - stk (w) to bc matrix filling; v wk fine amyg in vl;																			
			124.97	128.02	3.05	VL02 X	0	K 3	0			DT	0	0	-	W	S								
						Vh - med green, v fine grained, pillows to ± 2m. ca - gy (incl volc) stk (w) cavt & later white sh cavt to 3mm;																			

DRILL HOLE LOG

Hole: HT-08-03

Zone: _____

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Northing: _____

Easting: _____

Elevation: _____

Drilling Dates: _____

Logged by: _____

Length: 167.34 m

Core Size: _____

Casing: _____ (m) in/out

Depth: _____

Dip: _____

Azin: _____

PROPERTY- HARTLESS JOE

Visual Log			From	To	Interval	Unit	Alteration and Mineralization														From	To	Interval	Sample
V	S	(m)	(m)	(m)	(m)		QZ	CA	CB			SY	PY	MN	LI	BD	FR	ZN	(m)	(m)	(m)	Number		
			149.35	151.49	2.14	VL02X	0	K3	0			0	DT	0	0	-	W	S	150.40	150.70	0.30	C107912		
			150.53	150.59	0.06	VEIN X	8	50	P10	0		0					80							
			VEIN: silicified shr VLs. up to 10mm mv+Ca; VL - pale green pillows, 2-50cm av 5cm; fair oolites																					
			150.59	154.53	3.94	VL02X	0	K2	0			0	DT	0	0	-	W	S						
			VL - med green, aphanitic - hb? phg or dt fr; pillows - 2cm to 75cm av. 5-10cm; Ca - up to 1cm mv most < 1mm irreg str; VL - note no oolites																					
			154.53	157.58	3.05	VL02X	0	K2	0			0	LH	0	0	-	W	S						
			CHERT 05 VL med green, porphyritic, v fine - fine fr ± px(?) 50cm band pillows - 2-10cm; no oolites; 15cm blk to gy chert band; shr - 40° cl(?) 5mm; wk xl py																					
			157.58	160.63	3.05	VL02X	0	LK1	0			0	DT	0	0	-	W	S						
			CHERT 03 VL - lt-med green, wk matrix - looks fine - coarse blocky VL; no oolites, vl-fr ± px(?) phn fine grnd; 2x narrow irreg < 5cm bands of chert;																					
			160.63	163.68	3.05	VL02X	0	K1	0			0	LH	0	0	-	W	S						
			CHERT 07 VL - med green, wk fine fr ± px(?) phn in micro xl matrix; 50cm band - pillows to 3cm, often look like frg rock in a block matrix; CH - gy frg patches to 8cm; py - chert, most on fr ± Ca																					
			163.68	166.72	3.04	VL02X	0	LK1	0	LH		0	LH	0	0	-	W	S						
			CHERT 01 VOLC - med green v fine grained, occ patch clouded fine fr ± phn; VL - 23mm cb + qz + Ca; Py - fr + Ca v																					
			166.72	167.34	0.62	VL02																		
			as above																					
			167.34 E.O.H																					

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