

COMPANY: Goldstream - Titan
 PROJECT: Hugo RL 8810
 HOLE NUMBER: HS 10

Commenced:	07 Oct 97
Completed:	16 Oct 97
Logged By:	L A Newnham
Drilled By:	Dia. Drill Tas

Purpose of Hole
.to test the northern end of the Hugo skarn immediately beneath the Hugo Fault.

Comments on Completion
.a thin skarn intersection was obtained directly beneath a rubbly core loss zone which probably equates with the Hugo Fault; thus the hanging wall section of the skarn which is generally the mineralised section was faulted off; the footwall section intersected was very poorly mineralised; this means the Hugo Au-Zn skarn is probably terminated against the Hugo Fault just south of HS 10

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5406334	423695	627	-90	-

Length (m)
147.3

Hole Size	
To (m)	Size
54.0	HQ
147.3	NQ

Significant Core Loss Zones		
From	To	%Rec.
115.5	116.5	0

Hole Condition on Completion
.all steel casing removed from hole on completion

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	Au	Ag	Cu	Pb	Zn	As	S
			no significant mineralisation								

265041

423695E

HS 10
Collar 627

5,406,334 N

PLAN

m. ASL

627

Sandstone, minor shale
BCA 70°

593.0

Altered sandstone - shale
40.5

Au g/t	Zn	ppm Cu
0.02	0.02	10
0.03	0.03	50
0.08	0.13	45
0.02	0.04	15
0.14	0.02	15
0.02	0.02	15

Interbedded sandstone - shale
BCA 70-80°

564.8

68.2

Conglomerate, minor gnts

532.4
530.7

Rubble quartz, possible fault
94.6
96.3

altered siltstone-sandstone

517.3

quartz-carbonate
pyrite vein
109.7
110.5

<0.01 0.02 <5

510.5

altered fine grained sandstone
core loss
115.5
116.5

<0.01 0.04 <5
<0.01 0.05 <5
<0.01 0.05 <5
0.01 0.04 <5

501.4 (F.W.)

shaly, magnetic
(in part; gn-pink mottled)
125.6

0.01 0.03 <5
0.02 0.02 <5
0.01 0.01 <5

altered sandstone, greisen veins

0.06 0.02 <5
0.05 0.03 <5
0.03 0.02 <5

479.7 R.L. E/H

147.3

HS 10

SECTION

NEWMHAM EXPLORATION AND MINING SERVICES

GOLDSTREAM-TITAN J/V.

R.L. 8B10-HUGO PROJECT

DDH HS 10

10m 40m Scale: 1:1000

Drawn: Z.A. Newnham Date: Jan 97 Figure:

5 cm

DOWN HOLE SURVEY DATA

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Depth (m)	Dip	Bearing (AMG)	Interval		Length (D)	Vertical Distance		Horizontal Distance		Co-ordinates			
			From	To		D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-90	0					627.00		0.00		5,406,334.0		423,695.0
0	-90	0	0	25	25	25.00	602.00	0.00	0.00	0.00	5,406,334.0	0.00	423,695.0
50	-88.2	317	25	75	50	49.98	552.02	1.57	1.57	1.15	5,406,335.1	-1.07	423,693.9
100	-88.2	23	75	123.65	48.65	48.63	503.40	1.53	3.10	1.41	5,406,336.6	0.60	423,694.5
147.3	-88.5	319	123.65	147.3	23.65	23.64	479.76	0.62	3.72	0.47	5,406,337.0	-0.41	423,694.1
147.3													

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Description		Core Recovery			RQD			Assays												
From	To		From	To	%	From	To	%	From	To	Au	Zn	Ag	As	Mo	Bi				
.0.0	34.0	.SANDSTONE, minor SHALE: light gray, medium -coarse grained, pyritic sandstone, with occasional beds altered siltstone-shale; tubicolor texture in places; 3-5% pyrite pervasive in sandstone but up to 10% in several short intervals; concentrated pyrite along anastomosing network microfractures results in dendritic appearance in core in places; core bleached and weathered to 7 m., with limonitic coating on fractures due to pyrite weathering; below 10 m: appearance of narrow finer grained units of siltstone-shale, strongly altered to soft light gray material; BCA 70; below 20 m: finer grained units have banded brown-light gray texture with 1-2% pervasive pyrite; below 25 m: some sandstone beds intensely altered; core generally competent but some units very broken along joint and bedding planes; shales often crumbly and clayey;	0	2.1	90															
			2.1	5.1	90															
			5.1	8.1	100															
			8.1	11.1	90															
			11.1	34	100															
34.0	40.5	ALTERED SANDSTONE and SHALE: mottled brown-green-yellow altered felspathic sandstone and brown-creampurple well bedded siltstone-shale, strongly altered; 3-5% patchy, pervasive pyrite; grains of dark gray - black mineral, possibly hematite ?;	34.0	40.5	100				34	35	0.02	0.02	<0.5	0.01	1	10				
												(0.01 dup)								
											35	36	0.03	0.05	18	0.06	2	50		
											36	37	0.08	0.13	14.5	0.79	2	45		
											37	38	0.02	0.04	1	0.02	<1	15		
40.5	68.2	INTERBEDDED SANDSTONE and SHALE: medium gray pyritic sandstone interbedded with cream colored intensely altered soft shale sandstone silicified in places; dendritic texture in sandstone due to fine grained pyrite infilling network fine anastomosing fractures; REDUCED TO NQ AT 54 M; sandstone dominant to 61 m;							38	39	0.14	0.02	1	0.005	<1	155				
			40.5	68.2	100				39	40	0.02	0.02	<0.5	0.05	<1	15				

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Description		Core Recovery			RQD			Assays									
From	To		From	To	%	From	To	%	From	To							
.40.5 cont.....	68.2	.below 61: shale dominant, soft creamy altered; BCA 70-80; core generally competent but brittle fracturing in sandstone and several soft crumbly sections in altered shale; 66.5-68.2: light gray medium grained sandstone with gritty texture in part;															
68.2	93.7	CONGLOMERATE: quartz pebble conglomerate with white pebbles up to 50 mm. in light gray fine grained sandy matrix; pyrite <1% as disseminated grains in sandy matrix; sharp contact with unit above 80 CA; brittle fracturing and failure on joint sets 45 and 10-20 CA; some sections have very dark matrix eg. 82.5-84.2 m;	68.2	93.7	100												
93.7	94.6	GRIT: fractured and broken gritty zone, with narrow quartz veins; possibly milled conglomerate;	93.7	94.6	100												
94.6	96.3	RUBBLY QUARTZ ZONE- probable fault: very broken (rubble) zone of quartz veined brecciated sediments; pyrite 5% as veinlets and clots;	94.6	96.3	100												
96.3	109.7	ALTERED SILTSTONE-SANDSTONE: light gray fine grained siltstone? with minor sandstone units (possible volcaniclastic ??); sericitised ground mass; cream anastomosing veinlets in some intervals; Pyrite <1%, disseminated; unit altered (sericitised) but not silicified; some bluish-gray greisenised patches;	96.3	109.7	100												

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Zn	Ag	As	Mo	Bi
.96.3 cont.....	109.7	.below 102m: more definite fine grained sandstone, sericitic alteration, steep dipping <1mm. greisen veinlets, with possible trace blismuthinite;														
109.7	110.5	QUARTZ-CARBONATE-PYRITE VEIN: massive white quartz vein with large patches cream carbonate (siderite) enclosing large aggregates pyrite; narrow remnant sandstone beds; minor <1mm. greisen veins of quartz-topaz?-mica; minor dark fine grained mineral; vein appears orientated 50 CA;	109.7	110.5	100				109.5	110.5	<0.01	0.02	<0.5	<0.005	3	5
110.5	115.5	ALTERED FINE GRAINED SANDSTONE: light gray-fawn fine grained sandstone, extensively altered with abundant bright yellow-green sericitic zones; pyrite <1%;	110.5	115.5	100											
115.5	116.5	CORE LOSS only rubble recovered; ? fault zone?														
116.5	125.6	SKARN: to 119m: light brown-pink sacchroidal texture, very soft, extremely altered and degraded; streaks and patches of dark fine grained mineral, weathered to blood red color in places (? hematite, sphalerite?) 119-121 m: large dark green-black patches of massive soft mica, resulting in mottled texture; below 121m: pink-gray sacchroidal skarn with abundant dark gray-black patches resulting in streaky texture; dark mineral again weathering to blood red soft material (hematite?); below 124.5m: skarn becomes very dark green	116.5	122.8	100				116.5	117.5	<0.01	0.04	1	<0.005	190	5
			122.8	124.9	86				117.5	118.5	<0.01	0.05	2	<0.005	86	5
			124.9	125.6	100				118.5	119.5	<0.01	0.05	1.5	<0.005	71	5
									119.5	120.5	0.01	0.04	<0.5	0.01	5	5
									120	121.5	0.01	0.03	1	<0.005	11	5
									121.5	122.5	0.02	0.02	0.5	<0.005	2	5
									122.5	123.5	0.01	0.01	0.5	<0.005	<1	5
									123.5	124.5	0.06	0.02	<0.5	<0.005	<1	5
									124.5	125.5	0.05	0.03	0.5	<0.005	<1	5
									125.5	126.5	0.03	0.02	<0.5	<0.005	<1	5

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Description		Core Recovery			RQD			Assays								
From	To		From	To	%	From	To	%	From	To	Au	Zn	Ag	As	Mo	Bi
.116.5	125.6	.mottled black color, with patches magnetite and dark mlca;														
125.6	147.3	ALTERED GREISENISED SANDSTONE, minor SKARN:	125.6	147.3	100				128.5	129.5	0.03	0.005	<0.5	<0.005	2	<5
		light gray- light green altered sandstone metasiltstone, with some pink-gray calc - silicate/skarn zones;							131.5	132.5	0.03	0.01	<0.5	<0.005	3	<5
		relatively sharp contact with unit above;							136.5	137.5	0.02	0.01	<0.5	<0.005	2	<5
		to 131.5 m: light gray - light green meta-siltstone with abundant fine spots of hematite, blood red in color;							140.5	141.5	0.01	0.02	<0.5	<0.005	8	<5
		numerous <1mm. very fine, dark gray - black greisen veins, some high angle CA (70-80) others at low angles (20-30);							144.5	145.5	0.01	0.01	<0.5	<0.005	1	<5
		below 131.5: siltstones becoming more saccharoidal;									Sn	W				
		Increase in dark green-black greisen veining, which becomes an abundant component of the interval (20-30%);							34	35	4	15				
		greisen veins are anastomosing with no preferred orientation; consist of quartz-mica and quartz-mica-magnetite veins generally <10 mm. thick;							35	36	5	20				
		interval is moderately magnetic due to magnetite selvages on greisen veins;							36	37	4	20				
		occasional patches of pink felspar eg. 139.6;							37	38	4	<10				
		several fine grains of a silvery mineral associated with the greisen veins;							38	39	45	25				
		patchy pink coloration may be result of presence of calc-silicate or feldspathisation of metasiltstone;							39	40	4	15				
									109.5	110.5	14	55				
									116.5	117.5	250	35				
									117.5	118.5	34	15				
									118.5	119.5	49	35				
									119.5	120.5	4	<10				
									120.5	121.5	130	15				
									121.5	122.5	320	25				
									122.5	123.5	330	30				
									123.5	124.5	270	70				
									124.5	125.5	390	20				
									125.5	126.5	110	20				
									128.5	129.5	76	15				
									131.5	132.5	65	70				
									136.5	137.5	87	50				
									140.5	141.5	120	75				
									144.5	145.5	320	15				
		END OF HOLE														

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