

COMPANY: Goldstream - Titan
 PROJECT: Hugo RL 8810
 HOLE NUMBER: HS 9

Commenced:	21 Sept 96
Completed:	04 October 96
Logged By:	L A Newnham
Drilled By:	Dia. Drill Tas

Purpose of Hole
.to test the eastern margin of the main Au - Zn Hugo Skarn deposit

Comments on Completion
.only a 1 m. wide skarn zone was intersected in the middle of a thick sandstone sequence; this probably does not equate with the Hugo Skarn; the hole was probably drilled just on the east side of the main fault which truncates the eastern side of the Hugo Skarn;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5406298	423731	643	-90	-

Length (m)
.150.0

Hole Size	
To (m)	Size
66.0	HQ
150.0	NQ

Significant Core Loss Zones		
From	To	%Rec.
89.4	90.4	50

Hole Condition on Completion
.all steel casing removed from hole

Summary of Results:

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

123.731E

HS 9
643R.L.

5,406,298N

PLAN

m. ASL

643.0

624.5

Possible Fault? 12.5
sandstone

595.0

magnetite-pyrite
skarn

42.0
43.0

Au	Zn %	Bi
0.01	0.01	15
0.16	0.03	300
0.03	0.01	15

silicified sandstone,
minor shale
BCA 70°

557.0

553.6

552.4

conglomerate
brecciated quartz
rubble - Hugo Fault?

86.0

89.4

90.5

pyritic
sandstone
greisen veins

-- 493.0R.L. E/H.

150.0m.
HS 9

SECTION

5 cm

NEWNHAM EXPLORATION AND MINING SERVICES		
GOLDSTREAM-TITAN J/V.		
R.L. 8810-HUGO PROJECT		
DDH HS 9		
0m.	40m	Scale: 1:2000
Drawn: L.A. Newnham	Date: Jan 97	Figure:

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					643.00		0.00		5,406,298.0		423,731.0
0	-90		0	25	25	25.00	618.00	0.00	0.00	0.00	5,406,298.0	0.00	423,731.0
50	-88.5	206	25	75	50	49.98	568.02	1.31	1.31	-1.18	5,406,296.8	-0.57	423,730.4
100	-88.3	267	75	125	50	49.98	518.04	1.48	2.79	-0.08	5,406,296.7	-1.48	423,728.9
150	-88	228	125	150	25	24.98	493.05	0.87	3.66	-0.58	5,406,296.2	-0.65	423,728.3
150													

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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	48.0	SANDSTONE: light gray, medium grained sandstone; pyritic where fresh, limonitic where weathered; BCA 75-80; generally very broken, several joint sets, usually coated with limonite and sericite; 0.4 m. core lost at 11 m. in rubbly quartzites; below 15.8 m: light gray sandstone with network fine anastomosing pyritic veinlets resulting in dendritic appearance; also 3-5% pyrite as disseminations and aggregates in sandstone; 18.5-18.8 m: puggy zone with embedded angular fragments of quartzite; below 20 m: quartzite strongly pyritic, as disseminations and blebs, along joints and in fine dendritic fractures; soft puggy 200 mm. zones at 23.8, 24.6, 28.7m tubicolor texture well developed at 30.5 m; below 40 m: increasing proportion of altered siltstone-shale with well pronounced bedding, BCA 75-80; mottled greenish texture probably due to alteration of fine mica; pyrite 2-5% pervasive as clots, disseminated and concentrated along margins of thin greisen veins, sub parallel to core axis; core generally very broken, along sericite joint surfaces; strong joint direction 10-20 CA; 47-48.0 m: sandstone dark green, mottled texture, soft in places with light brown clay filled anastomosing veinlets; possibly gradational with narrow skarn zone below; BCA 80; core competent but greasy, dark green joint surfaces common;																	
			0	2	30														
			2	11	100														
			11	13.8	86														
			13.8	48	100														
48.0	49.0	SKARN: dark gray-black magnetite - pyrite skarn, with patches white sacchroidal material - possibly topaz rich sandstone ??; bands of up to 75% magnetite	48.0	49.0	100				47	48	0.01	0.01	<0.5	<0.005	1	<5			
										48	49	0.16	0.03	2	<0.005	<1	300		
										49	50	0.03	0.01	<0.5	0.005	1	<5		

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Description		Core Recovery			RQD			Assays									
From	To		From	To	%	From	To	%	From	To	Sn	W					
49.0	86.0	SILICIFIED SANDSTONE and MINOR SHALE: above 51 m: mottled brown sandstone and light gray - cream shales, developed as a result of alteration of shales; clayey and very crumbly in part; below 51 m: light gray intensely silicified sandstone with minor wispy cream partings of soft altered fine grained sediments; 3-5% pervasive pyrite as coarse euhedral grains and blebs and concentrated in thin greisen veins; 10-20 mm. white fractured quartz veins common at 45 CA; BCA 70; core moderately fractured along cream colored clay filled joint planes; dominant joint set 20-30 CA; intensely silicified below 66 m. REDUCED TO HQ AT 66 m; below 78 m: light buff brown soft altered siltstone-shale interbedded with light gray - white intensely silicified sandstone which has conglomeratic appearance in places; 1-2% disseminated pyrite;	49	86	100				47	48	44	20					
									48	49	300	20					
									49	50	65	30					
86.0	89.4	CONGLOMERATE: white quartz clasts in light gray siliceous groundmass; gradational with unit above; minor 1-2% disseminated pyrite grains in groundmass; generally hard brittle and broken; brecciated 88.8-89.0 m;	86.0	87.2	100												
			87.2	89.4	90												
89.4	90.6	BRECCIATED QUARTZ and QUARTZITE RUBBLE: light gray brecciated quartz with interstitial quartzite; 50% core loss; sericitic and rubbly in places; ?? POSSIBLE FAULT ZONE??	89.4	90.4	50												

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