COMPANY: Goldstream-Titan
PROJECT: Hugo RL 8810
HOLE NUMBER: HS 8

Commenced:	09 Sept 96
Completed:	20 Sept 96
Logged By:	L A Newnham
Drilled By:	Dia. Drill Tas

Purpose of Hole
.To confirm the high grade Zn-Au skarn intersection obtained in drill hole SMD 13 on the same site during a previous drilling program completed by Shell-CRA

Comments on Completion
.the Hugo Skarn was intersected directly beneath the Hugo Fault between 82.8- 116.3 m. The top section of the skarn may have been faulted off; a 17 m. thick Au-Zn anomalous zone was present in the top half of the skarn and the upper 9 m. of this assayed 2.34 g/t Au, 8.9 %Zn, 0.16 %Bi; the Shell-CRA hole on this same site was higher in Zn and lower in Au;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5,406,251	423703	638	-90	-

Length (m)
144.3

Hole Size	
To (m)	**Size**
60	HQ
144.3	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**
31.7	33.0	25
33.0	35.2	10
35.2	36.0	0
36.0	38.0	10

Hole Condition on Completion
.All steel casing removed from hole

Summary of Results:

Depth		Recovery	Description	Assays							
From	**To**	**%**		**Length**	**Au**	**Zn**	**Ag**	**As**	**Mo**	**Bi**	
86.5	95.5	100	**Mottled light green-pink sphalerite rich skarn**	9.0	2.34	8.9				0.16	
86.5	103.5	100	**Skarn**	17.0	1.34	6.7				0.10	

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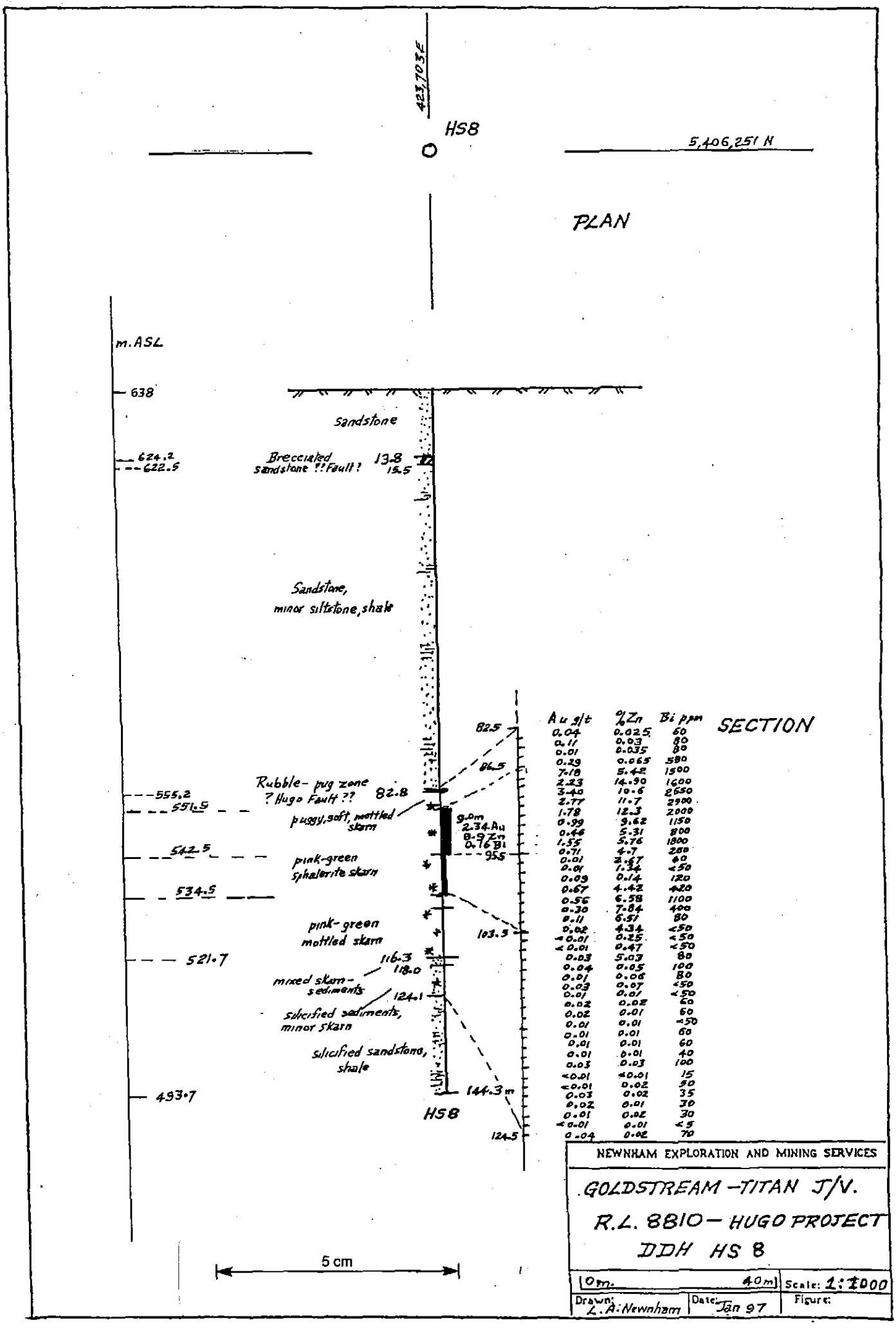

NEWNHAM EXPLORATION AND MINING SERVICES

GOLDSTREAM - TITAN J/V.

R.L. 8810 - HUGO PROJECT

DDH HS 8

0m. 40m | Scale: 1:1000

Drawn: L.A. Newnham | Date: Jan 97 | Figure:

DOWN HOLE SURVEY DATA

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Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	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					638.00		0.00		5,406,251.0		423,703.0
0	-90	0	0	25	25	25.00	613.00	0.00	0.00	0.00	5,406,251.0	0.00	423,703.0
50	-89	247	25	75	50	49.99	563.01	0.87	0.87	-0.34	5,406,250.7	-0.80	423,702.2
100	-89	34	75	122.15	47.15	47.14	515.86	0.82	1.70	0.68	5,406,251.3	0.46	423,702.7
144.3	-88	154	122.15	144.3	22.15	22.14	493.73	0.77	2.47	-0.69	5,406,250.6	0.34	423,703.0
144.3													

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
0.0	13.8	**SANDSTONE:**														
			0	2.2	82											
		light gray, medium-coarse grained pyritic	2.2	5.2	100											
		sandstone, with ocassional narrow dark	5.2	8.2	87											
		brown altered siltstone beds;	8.2	13.8	100											
		core has pervasive dendritic appearance due to														
		fine anastomosing fractures filled with pyrite														
		and fine mica;														
		pyrite also common as disseminations and														
		aggregates in sandstone, and smeared along														
		joint planes;														
		minor broken quartz veins below 12 m.,														
		core loss at 8m., in brown puggy clay zone;														
		sandstone massive with no positive bedding;														
		extensively broken and fractured, especially														
		below 11.5m.														
		several prominent joint sets 30, 70 CA;														
		limonite common on joints;														
13.8	15.5	**BRECCIATED SANDSTONE-FAULT ZONE?**	13.8	15.5	100											
		broken, brecciated, quartz veined pyritic														
		sandstone;														
		prominent sericitic pug-quartz breccia zone														
		parallel CA for most of interval;														
		coarse pyrite abundant throughout;														
		core very broken and limonitic;														
15.5	82.8	**SANDSTONE, minor SILTSTONE and SHALE:**	15.5	17.2	100											
			17.2	18.0	50											
		similar to unit above fault but more broken	18.0	31.7	100											
		and becoming less pyritic with depth;														
		joint set parallel to core axis results in very														
		broken core;														
		limonite common on joints;														
		27-29m: sandstone finer grained, dark gray,														
		more silicified; possible bedding 80 CA;														
		31.7-38m: zone of major core loss; difficult to	31.7	33.0	25											
		speculate what was lost; recovered core is very	33.0	35.2	10											
		broken sandstone and some massive white	35.2	36.0	0											
		quartz veins;	36.0	38.0	10											

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
.15.5 continued.....	82.8	.some redrilled core suggests probably a drilling problem rather than a ground problem														
		38.0-40.5m: *softer finer grained* brown sandstone-siltstone-altered shale unit with small augens of quartz and sandstone; pyritic; BCA 40; clayey and pug in places; unit very broken;	38	41	80											
		40.5-62m: light gray sandstone interbedded with soft, cream siltstone-shale; whispy green sericite *common in sandstone*; thin white quartz veins increasing down hole at random angles but commonly at high angle to CA; pyrite as ocassional disseminated coarse grains and blebs in quartz veins-decreasing down hole to 1-2%; metasandstone becoming very silceous below 50m. with numerous thin (<10mm) quartz veins with coarse *euhedral pyrite*; limonite abundant on joints; below 55m. increase in number of soft buff brown altered shale-siltstone units, containing narrow 10-20mm.light gray sandstone beds; REDUCED TO NQ AT 60M.	41	62	100											
		62.0-66.0m: metasiltstone-shale bed, BCA 60-70; pyrite common in *fractures* and thin quartz veins;	62.0	66.0	100											
		below 66m: light gray sandstone, intensely silicified with ocassional soft light brown siltstone-shale beds;	66.0	69.3	100											
			69.3	72.2	69											
		BCA 70; core intensely fractured and broken with pyrite common on all fracture surfaces and in thin veins;	72.2	78.3	100											
		below 76m: mainly *siltstone*, light gray and very broken, cut by quartz veins and brecciated in places; minor disseminated pyrite;														
		78.0-82.8m: dark gray siltstone, extremely broken with soft soapy bright green sericite on most fracture surfaces; thin quartz veins and narrow breccia zones; 82.0-82.8m: core pug and rubble (HUGO FAULT ZONE?)	78.3	81.3	67											
			81.3	82.8	100											

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Zn	Ag	As	Mo	Bi
82.8	116.3	**.SKARN:**														
		sharp but very broken contact with unit above							82.5	83.5	0.04	0.025	4	<0.005	<20	60
		82.8-85.0: very soft, puggy, broken, mottled	82.8	105.3	100						0.02(dup)					
		light green-pink skarn; no significant veining							83.5	84.5	0.11	0.03	2	<0.005	<20	80
		or sulfide mineralisation;							84.5	85.5	0.01	0.035	4	<0.005	<20	80
		85.0-106.8m: *light pink-green mottled*	105.3	108.3	95				85.5	86.5	0.29	0.065	10	<0.005	<20	580
		sphalerite skarn; (garnet-epidote? skarn);							86.5	87.5	7.18	5.42	11	<0.005	40	1500
		sphalerite is dark brown-black with dark							87.5	88.5	2.23	14.9	8	<0.005	30	1600
		streak (ie) marmatite; occurs in large							88.5	89.5	3.4	10.6	10	0.005	<20	2650
		interconnected patches; abundant from 86.5-							89.5	90.5	2.77	11.7	10	<0.005	20	2900
		93.0m. and 99.0-103.0m.; decreasing below							90.5	91.5	1.78	12.3	11	<0.005	<20	2000
		103m; coarse euhedral pyrite associated with							91.5	92.5	0.99	9.62	8	<0.005	20	1150
		sphalerite in places;							92.5	93.5	0.46	5.31	9	<0.005	<20	800
		86.5-87.0m: some magnetite patches							93.5	94.5	1.55	5.76	8	<0.005	<20	1800
		associated with sphalerite; minor amounts							94.5	95.5	0.71	4.7	7	<0.005	<20	260
		magnetite elsewhere in unit;							95.5	96.5	0.01	2.67	8	<0.005	<20	60
									96.5	97.5	0.01	1.34	5	<0.005	<20	<50
		soft red amorphous mineral near top of unit							97.5	98.5	0.09	0.145	7	0.005	<20	120
		possibly hematite after either magnetite or							98.5	99.5	0.67	4.42	7	<0.005	<20	420
		leached sphalerite;							99.5	100.5	0.56	6.58	8	<0.005	<20	1100
		core soft and moderately broken;							100.5	101.5	0.3	7.84	8	<0.005	<20	400
		several joint sets- one 20 CA associated with							101.5	102.5	0.11	6.51	9	<0.005	<20	80
		thin veinlets of dark gray-black material (dark							102.5	103.5	0.02	4.34	7	<0.005	<20	<50
		quartz-mica greisen?); other persistent joint									0.03 (dup)					
		sets at 40 and 60 CA;							103.5	104.5	<0.01	0.255	7	<0.005	<20	<50
		below 102m: 5-10mm. dark greisen veins with							104.5	105.5	<0.01	0.475	19	<0.005	<20	<50
		significant magnetite, semi parallel to core							105.5	106.5	0.03	5.03	9	<0.005	<20	80
		axis;									0.02(dup)					
		106.8-116.3m: mottled pink-green skarn with	108.3	116.3	100				106.5	107.5	0.04	0.05	6	<0.005	<20	100
		substantially less sphalerite and pyrite;							107.5	108.5	0.01	0.06	<2	<0.005	<20	80
		increasing component of dark green-gray							108.5	109.5	0.03	0.07	6	<0.005	<20	<50
		moderately hard mineral and increasing dark							109.5	110.5	0.01	0.015	4	<0.005	30	<50
		gray-black 5-10mm greisen veining sub							110.5	111.5	0.02	0.02	<2	<0.005	30	60
		parallel to core axis;							111.5	112.5	0.02	0.015	8	<0.005	<20	60
		core generally competent but fracturing along									0.01(dup)					
		greisen veins sub parallel to CA;							112.5	113.5	0.01	0.015	6	<0.005	<20	<50
116.3	118.0	**MIXED SKARN-SEDIMENT ZONE:**	116.3	118.0	100				113.5	114.5	0.01	0.015	5	<0.005	<20	60
									114.5	115.5	0.01	0.015	5	<0.005	<20	60
		zone of mixed pink skarn and other fine							115.5	116.5	0.01	0.015	<0.5	<0.005	6	40
		grained calc. silicates, possibly including									0.03(dup)					
		minor hornfelsed shale-siltstone beds;														

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From	To		From	To	%	From	To	%	From	To	Au	Zn	Ag	As	Mo	Bi
.116.3 cont.....	118.0	.numerous 1-10 mm. dark gray-black greisen veins; no mineralisation observed;							116.5	117.5	0.03	0.03	<0.5	<0.005	27	100
									117.5	118.5	<0.01	<0.01	<0.5	<0.005	2	15
118.0	124.1	**INTERBEDDED SILICEOUS SEDIMENTS and MINOR SKARN UNITS:**							118.5	119.5	<0.01	0.02	<0.5	<0.005	26	50
			118	124.1	100				119.5	120.5	0.03	0.02	<0.5	<0.005	40	35
									120.5	121.5	0.02	0.01	<0.5	<0.005	230	30
		light gray and greenish intensely altered fine grained siliceous sediments, interbedded with pink (garnet)-green (epidote?) skarn;							121.5	122.5	0.01	0.02	<0.5	<0.005	80	30
									122.5	123.5	<0.01	0.01	<0.5	<0.005	59	<5
									123.5	124.5	0.04	0.02	<0.5	<0.005	32	70
		minor blebs silvery mineral in skarn, possibly bismuthinite or fine mica;														
		interval cut by several generations of greisen veins - abundant 1-5 mm. dark gray veins														
		often sub parallel to core axis, comprised									Sn	W				
		mainly of magnetite and dark mica; other							115.5	116.5	250	105				
		wider zoned veins with quartz-topaz-fluorite							116.5	117.5	150	2350				
		centres and mica-magnetite							117.5	118.5	130	25				
		selvages,ocassionally containing fine grained							118.5	119.5	115	50				
		acicular mineral (?? arsenopyrite);							119.5	120.5	230	280				
		mica very weathered/altered to soft sericite							120.5	121.5	175	15				
		resulting in very broken core,especially in							121.5	122.5	76	130				
		silicified units;							122.5	123.5	150	<10				
									123.5	124.5	165	650				
124.1	144.3	**SILICIFIED SHALE and SANDSTONE:**	124.1	144.3	100											
		light gray silicified siltstone with minor brown sandstone beds, grading down hole into micaceous greisenised sandstones;														
		BCA becomes regular 80 CA;														
		below 130 m., dark gray sandstone, pyritic, micaceous;														
		ocassional 5-20 mm. quartz-mica-pyrite greisen veins parallel to bedding;														
		unit extensively broken along joints and greisen veins but becoming more competent below 135 m.														
		END OF HOLE														