COMPANY: GOLDSTREAM MINING NL/TITAN RESOURCES NL
PROJECT: MOINA RL 8810
HOLE NUMBER: HS 004

Commenced:	22Jun94
Completed:	19Jul94
Logged By:	LA Newnham
Drilled By:	Dia. Drill Tas.

Purpose of Hole
To test the Hugo Skarn north of MD 39.

Comments on Completion
Hole failed to intersect skarn. Moina Sandstone and Rowland Conglomerate to 196 metres appears to be thrusted over greisenised Moina Sandstone to 280 metres, suggesting skarn has been folded up to west of hole.

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5406460	423600	590	-70	360

Length (m)
279.7

Hole Size	
To (m)	**Size**
4.0	HW
39.6	HQ
279.7	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**

Hole Condition on Completion
All rods and casing removed from hole.

Summary of Results

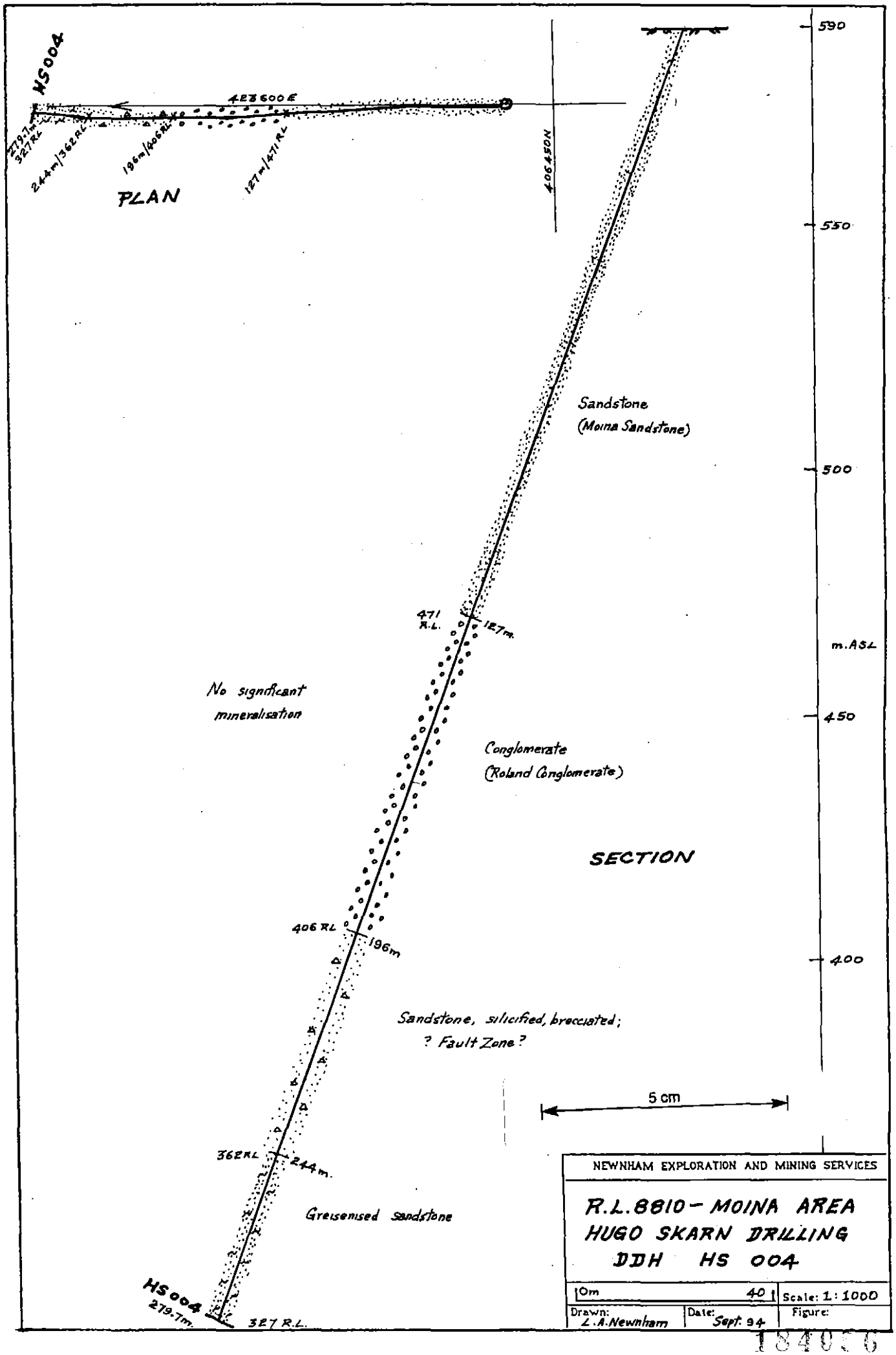
Depth		Recovery	Description	Assays							
From	**To**	**%**		***Length***	**Au**	**Ag**	**Cu**	**Pb**	**Zn**	**As**	**S**
			No significant mineralisation.								

DOWN HOLE SURVEY DATA

COMPANY: Goldstream Mining - Titan Resources
PROJECT: *Moina - Hugo Skarn*
HOLE NUMBER: HS 004

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	-70	360					590.00		0.00		5,406,460.0		423,600.0
0	-70	360	0	50	50	46.98	543.02	17.10	17.10	17.10	5,406,477.1	0.00	423,600.0
100	-69.5	357	50	163	113	105.84	437.17	39.57	56.67	39.52	5,406,516.6	-2.07	423,597.9
226	-70	360	163	250.5	87.5	82.22	354.95	29.93	86.60	29.93	5,406,546.5	0.00	423,597.9
275	-70.5	3	250.5	277.35	26.85	25.31	329.64	8.96	95.56	8.95	5,406,555.5	0.47	423,598.4
279.7	-70.5	3	277.35	279.7	2.35	2.22	327.42	0.78	96.35	0.78	5,406,556.3	0.04	423,598.4
279.7													

184055


HS004
423600E
406450N
279.7m
327RL
244m/362RL
196m/406RL
127m/471RL
PLAN
590
550
500
m.ASL
450
400
Sandstone
(Moina Sandstone)
471
R.L.
127m.
No significant
mineralisation
Conglomerate
(Roland Conglomerate)
SECTION
406 RL
196m
Sandstone, silicified, brecciated;
? Fault Zone ?
5 cm
362RL
244m.
Greisenised Sandstone
HS004
279.7m.
327 R.L.
NEWNHAM EXPLORATION AND MINING SERVICES
R.L.8810 - MOINA AREA
HUGO SKARN DRILLING
DDH HS 004
0m
40
Scale: 1:1000
Drawn: L.A.Newnham
Date: Sept 94
Figure:

184056

COMPANY: GOLDSTREAM-TITAN
PROJECT: MOINA RL 8810
HOLE NUMBER: HS 004

184057

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Sn	W			
		SUMMARY LOG														
0	4.0	No core.														
4.0	127.0	Sandstone.														
127.0	196.4	Rowland Conglomerate.														
196.4	244.0	Silicified and brecciated sandstone and grit (possible fault zone).														
244.0	279.7	Greisenised sandstone.														
		DETAILED LOG														
0	4.0	HW tricone, no core.	0.0	4.0	0											
			4.0	7.5	95											
4.0	127.0	**Sandstone:**	7.5	39.6	100											
			39.6	43.5	98				38.0	39.0	<0.01	<4	10			
		Limonitic sandstone and clay zones; (after shale?), becoming darker grey and fresher below 10 m, limonite probably after pyrite.	43.5	46.5	95				41.0	42.0	<0.01	<4	<10			
			46.5	100.0	100				44.0	45.0	<0.01	<4	<10			
			100.0	101.1	90				52.0	53.0	<0.01	<4	<10			
		14.2 m, possible BCA 40°.	101.1	103.5	100				58.0	59.0	<0.01	<4	<10			
			103.5	106.3	90				64.0	65.0	<0.01	8	15			
		Minor quartz veins with pyrite below 13 m.	106.3	118.5	100				68.0	69.0	0.01	5	15			
			118.5	121.5	95				74.0	75.0	<0.01	5	10			
		Generally friable and broken; dominant joints 30, 70 CA.	121.5	127.0	100											
		Below 17 m, silicified and cut by suite of < 5 mm quartz veins.														
		1-2% pyrite disseminated in sandstone and associated with quartz veins.														
		BCA at 23 m, 35°.														
		Possible fine grained hematite in sandstone matrix.														
		Below 34.5 m, silceous sandstone with boudinaged or stretched quartz veins with														

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
		common pyrite; core very broken in some intervals. Below 38 m, strongly pyritic 3-5%; boudinaged quartz veins; pyrite as large clots, veinlets and disseminated in sandstone. Reduced to NQ at 39.6 m. Sandstone cut by intense network of microveins with abundant pyrite; some clots amphibole and pyrite. 45.7-46.3 m: Soft white featureless bed with disseminated pyrite and 1-2 mm quartz veins. Below 46.3 m, silicified sandstone and siltstone and altered shales; stretched and broken quartz veins common, often rimmed by pyrite. Pyrite 2-5% but up to 10% in some intervals as clots, disseminated and abundant in "dendritic" microveins. BCA 50.5 m: 50°. Core generally competent but occasional narrow very broken zones; several joint directions; becoming more silicified and greisenised with depth. 81.2-84.5 m: banded and well bedded grey-reddish brown sandstone with minor chlorite skarn zones; BCA 50. Below 85 m, mixed dark grey and softer orange-cream sandstone (limonitic matrix); 1-2% pyrite as veinlets, clots, and dendritic patches; sandstone becoming coarser down hole.								81.0	82.0	<0.01	5	<10			
									95.0	96.0	0.01	10	<10			
									103.0	104.0	<.01	<4	10			
									110.0	111.0	<.01	<4	<10			
									116.0	117.0	<.01	6	<10			

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Sn	W			
		Sericite common component as grit ground mass and on joint surfaces; below 107 m, intensely silicified sandstone and grit. Below 122 m, becoming pebbly and gradational with conglomerate below; softer cream-green partings common; cut by network very fine short veinlets filled with pyrite.														
127.0	196.4	**Quartz-Cobble-Conglomerate (Rowland Conglomerate):** Quartz pebbles-cobbles set in dark grey ground mass. Minor disseminated pyrite in ground mass and in-filling vags. Some pyrite on joint surfaces; reasonably competent but some very broken zones and two strong joint sets 20-30 CA. Unit gradational with sandstone above. 149-157.0: sandy-gritty beds; BCA gradually diminishing down hole; 156 m BCA 35-40°. Below 157 m, conglomerate very coarse with cobbles up to 5-6 cm. Core very broken below 183 m. BCA 196 m in dark grey sandstone 55°.	127.0	196.4	100												
196.4	244.0	**Sandstone-Grit, Silicified & Brecciated *(fault zone?)*:** Dark grey sandstone, extensively broken and silicified. Green-yellow sericite (clay) on fracture surfaces.	196.4	244.0	100				200.0	201.0	<0.01	8	15			
									206.0	207.0	<0.01	15	100			
									215.0	216.0	<0.01	8	15			
									219.0	220.0	<0.01	20	25			
									226.0	227.0	<0.01	9	45			
									228.0	229.0	0.01	4	50			

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Sn	W			
		1-2% pyrite throughout as disseminated grains and aggregates.							230.0	231.0	<0.01	20	670			
									232.0	233.0	<0.01	10	60			
		212.5-214.5 m: some 1-10 mm quartz veining.							234.0	235.0	<0.01	9	35			
									236.0	237.0	<0.01	4	40			
		216-218 m: darker (hematitic?) zones below 218 m, intense spotting of sandstone (see petrological description 220 m).							238.0	239.0	<0.01	7	30			
									240.0	241.0	<0.01	20	45			
		223 m: quartz veining common - major fault?; some greisen veins with dark selvages.							242.0	243.0	<0.01	6	15			
		Intensely silicified and greisenised below 226 m, dark grey, abundant quartz veins, lighter silicified zones;														
		Biotite/mica common on quartz vein margins.														
		Clots and aggregates pyrite common (see petrological description 228.4).														
		Below 243 m, silicification is intense and obliterates all original rock textures.														
		244 m: minor Bi/Mo? in quartz veins.														
244.0	279.7	**Greisenised Sandstone:**	244.0	279.7	100				244.0	245.0	<0.01	5	10			
									246.0	247.0	<0.01	9	<10			
		Gradational contact with unit above; intensely fractured and silicified sandstone.							248.0	249.0	<0.01	6	10			
									250.0	251.0	<0.01	10	10			
		Dark grey-white with some orange-brown *zones (limonitic after sulfides).*							252.0	253.0	0.01	7	<10			
									254.0	255.0	0.010	<4	10			
		1-3 cm quartz veins common, often with microveins component.							256.0	257.0	0.010	<4	30			
									257.0	258.0	0.010	4	95			
		Greisenisation intense below 260 m, greisen-quartz veins common consisting of quartz-							258.0	259.0	<0.01	<4	55			
									260.0	261.0	<0.01	5	115			
									264.0	265.0	<0.01	5	<10			
									269.0	270.0	<0.01	4	10			
									272.0	273.0	<0.01	4	<10			

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Sn	W			
		dark fine grained mica-soft green mineral and abundant pyrite as blebs and veinlets.							275.0	276.0	<0.01	<4	<10			
									277.0	278.0	0.01	7	<10			
		The greisen veins cause intense brecciation and fracturing of sandstone.														
		Pyrite 1-3% in-filling joints and fractures and accompanying quartz veins, and disseminated throughout; some zones of red-brown mineral occurring as small disseminated grains in sandstone (eg. 257.5-258.5 m (?sphalerite?)).														
		Core very broken. (Petrological descriptions 252.6 m, 277.6 m.)														
		Below 277 m, core becomes very dark (intense greisenisation), and quartz veins contain some cream feldspar; thin clay seams after feldspar common.														
		Some magnetite and hematite associated with quartz veins and greisen 277.5-277.8.														
		BCA approximately 30, but variable.														
		----END OF HOLE----														