COMPANY: GOLDSTREAM MINING NL/TITAN RESOURCES NL
PROJECT: MOINA RL 8810
HOLE NUMBER: HS 001

Commenced:	06May94
Completed:	18May94
Logged By:	L A Newnham
Drilled By:	Dia. Drill Tas.

Purpose of Hole

To test the Au-Zn potential of the Hugo Skarn adjacent to previously drilled holes SMD 13 and SMD 16.

Comments on Completion

No significant Zn mineralisation intersected. However, the skarn unit between 76.0-124.0m contained a significant Au-Bi zone with miner moly.

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5406210	423730	640	-90	-

Length (m)
152m

Hole Size

To (m)	Size
3.0	HW
66.0	HQ
152.0	NQ

Significant Core Loss Zones

From	To	%Rec.
47.0	52.0	32
75.0	76.0	0

Hole Condition on Completion

All rods and casing removed from hole.

Summary of Results

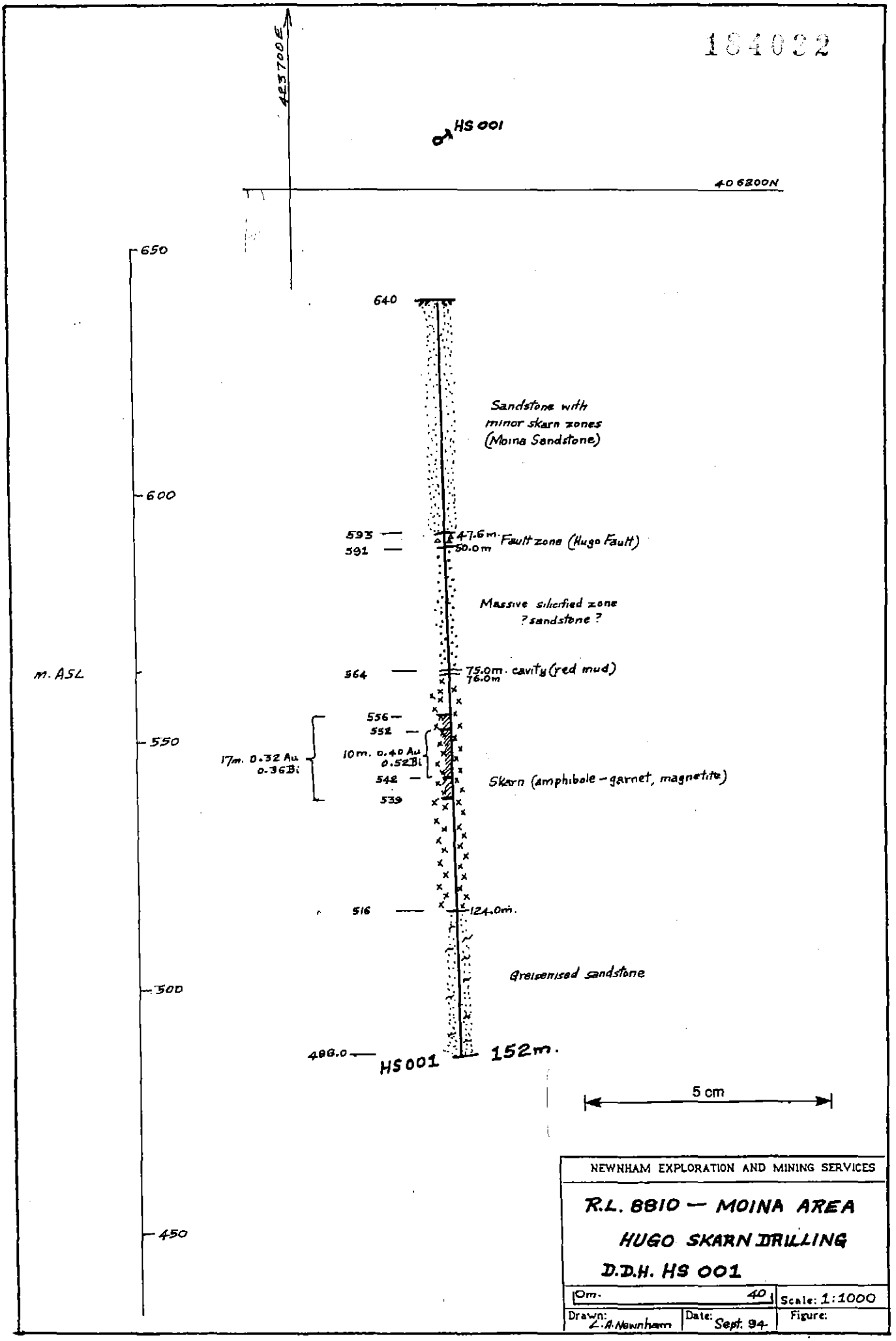
Depth		Recovery	Description	Assays							
From	To	%		Length	Au(g/t)	An	Mo	Bi%	Sn	W	$F(CaF_2)$
84.0	101.0	98	Diopside-chlorite-garnet? skarn	17m	0.32			0.36			
Including:											
87.0	97.0	100		10m	0.40			0.52			

DOWN HOLE SURVEY DATA

COMPANY: Goldstream Mining- Titan Resources
PROJECT: Moina - Hugo Skarn
HOLE NUMBER: HS 001

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					640.00		0.00		5,406,210.0		423,730.0
0	-90	0	0	37.5	37.5	37.50	602.50	0.00	0.00	0.00	5,406,210.0	0.00	423,730.0
75	-88.5	47	37.5	112.5	75	74.97	527.53	1.96	1.96	1.34	5,406,211.3	1.44	423,731.4
150	-88.2	61	112.5	151	38.5	38.48	489.04	1.18	3.14	0.57	5,406,211.9	1.03	423,732.5
152	-88	61	151	152	1	1.00	488.04	0.03	3.17	0.02	5,406,211.9	0.03	423,732.5
152													

184032


425700E
HS 001
40 6200N
650
600
550
500
450
m. ASL
640
Sandstone with minor skarn zones (Moina Sandstone)
593
591
47.6m.
50.0m
Fault zone (Hugo Fault)
Massive silicified zone ? sandstone ?
564
75.0m. cavity (red mud)
76.0m
556
552
542
539
17m. 0.32 Au 0.36Bi
10m. 0.40 Au 0.52Bi
Skarn (amphibole – garnet, magnetite)
516
124.0m.
Greisenised sandstone
488.0
HS 001
152m.
5 cm
NEWNHAM EXPLORATION AND MINING SERVICES
R.L. 8810 — MOINA AREA
HUGO SKARN DRILLING
D.D.H. HS 001
0m.
40
Scale: 1:1000
Drawn: L.A. Newnham
Date: Sept. 94
Figure:

COMPANY: GOLDSTREAM-TITAN
PROJECT: MOINA RL 8810
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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
		SUMMARY LOG														
0	3.0	HW casing.														
3.0	47.5	Silicified sandstone with minor skarn zones.														
47.5	50.0	Fault zone.														
50.0	75.0	Massive silicified zone.														
75.0	76.0	Cavity containing red mud.														
76.0	124.0	Skarn, variably amphibole and garnet rich, with some magnetite zones.														
124.0	152.0	Greisenised sandstone, gradational with unit above.														
		DETAILED LOG														
0	3.0	HW casing, no core.	0	3.0	0											
3.0	33.2	**Sandstone-Siltstone Broken & Pyritic:**					%F as									
		Generally light grey sandstone with darker fine grain siltstone beds; sandstone matrix weathering to brown clay in part.	3.0	32.0	100		CaF2									
							0.02		27.0	28.0	<0.005	1250	<20	7	<50	<10
							0.11		31.5	32.5	<0.005	400	<20	5	<50	15
		1% pervasive pyrite as fine disseminations and aggregates; numerous thin fractures often filled with pyrite and micaceous material.														
		Several blebs and veinlets of dark brown mineral between 6-8m, hard with brown streak.														
		Greenish colour due to weathering of sandstone clay matrix.														
		Below 10m, sandstone cut by network dark microveins, often with dendritic appearance; veinlets filled with pyrite and dark mica.														

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
		Pyrite increasing down hole to 1-2% below 10m, and 2-3% below 20m.														
		Several 1-10mm quartz veins cut core, and contain minor blebs of a soft brown mineral.														
		Some sections of sandstone between 20-33m are conglomeratic.														
							%F as CaF2									
		Core generally very broken.														
33.3	36.2	**Mottled Skarn:**	32.0	35.0	100											
		Mottled dark grey-green-pink unit with minor magnetite.	35.0	37.7	93		0.17		34.5	35.5	<0.005	150	<20	6	<50	<10
							0.19		35.5	36.0	<0.005	200	<20	<4	<50	<10
		Pyrite in clots up to 10mm and in dark fine vein network.														
		Unit hard and competent.														
36.2	40.0	**Silicified Sandstone:**														
		Light grey, hard sandstone, intensely silicified and cut by network 1-2mm quartz veins.	37.7	42.5	100		0.04		39.9	40.9	<0.005	150	<20	<4	<50	<10
		1-2% pervasive pyrite, often concentrated along thin dark veinlets and on quartz vein margins; core broken towards base.														
40.0	41.4	**Mottled Skarn:**														
		Similar to skarn unit above but only trace magnetite. Greenish areas are hard/ ?epidote.														
41.4	47.5	**Sandstone:**	42.5	44.0	87											
		Dark grey-greenish mottled appearance in top half grading into light grey-white near base.	44.0	47.0	93											
		1-2% disseminated pyrite.														

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From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
		Unit broken, becoming rubbly below 44m, limonite common on fractures.														
47.5	50.0	**Pug-Fault Zone:**	47.0	48.0	40											
		Clays, brown-yellow-white.	48.0	49.0	0											
			49.0	49.5	80	%F as CaF2										
		Poor recoveries.	49.5	50.0	0											
50.0	75.0	**Silicified Sandstone-Siltstone:**	50.0	50.5	20		0.27		63.5	64.5	<0.005	<50	<20	8	<50	<10
		Light grey, massive silicified unit, generally featureless with patchy texture and ghosted quartz veins; several narrow soft beds (mudstone?).	50.5	50.9	50											
			50.9	51.7	50											
			51.7	61.8	100											
			61.8	63.5	94											
			63.5	66.0	100											
		Several 5-15mm quartz veins almost obliterated by silicification.	66.0	68.0	90											
			68.0	75.0	100											
		Trace pyrite and limonitic coating on some joint surfaces.														
		Core very broken to 57m but then becomes more competent.														
		High angled jointing 60-70° CA.														
		Probable bedding 70° CA.														
		Running sand in tray 50.9-54.7m, probably cave from higher in hole. 20cm clay zone 63.3m.														
		Reduced HQ-NQ at 66m.														
		(Unit looks like hydrothermal silicification in trap zone below fault at 50m.														
75.0	76.0	**Cavity:**	75.0	76.0	0											
		Driller reports bright red mud in water return.					%F as CaF2									

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
76.0	124.0	**Skarn:**					0.88		76.0	77.0	0.285	150	<20	820	200	25
		Massive skarn unit.	76.0	84.9	100		0.72		77.0	78.0	0.125	100	<20	600	200	15
			84.9	86.0	90		1.01		78.0	79.0	0.210	100	<20	420	250	10
			86.0	98.0	100		1.40		79.0	80.0	0.085	100	<20	320	250	20
		76.0-82.6:					1.58		80.0	81.0	0.265	100	<20	940	250	20
		Pink (garnet-diopside?) skarn with sugary texture. Mottled green appearance in places (chlorite, epidote?), sometimes fibrous (?actinolite).					1.94		81.0	82.0	0.030	100	<20	340	250	15
							0.66		82.0	83.0	0.046	1700	20	250	150	15
							0.41		83.0	84.0	0.105	50	<20	770	350	<10
							0.19		84.0	85.0	0.715	50	<20	1860	400	10
		Several zones massive pink feldspar.														
		82.6-82.9:														
		Dark grey skarn with magnetite.														
		82.9-89.8:					0.89		85.0	86.0	0.125	100	<20	1420	450	15
		Massive green-pink skarn, with large patches chlorite.					0.37		86.0	87.0	0.315	50	<20	1420	550	<10
							0.36		87.0	88.0	0.240	100	<20	3900	450	<10
							0.51		88.0	86.0	0.265	100	20	4100	650	10
		Bismuthinite as large blebs and coarse disseminations; ?scheelite associated with bismuthinite.					0.60		89.0	90.0	0.285	100	50	1620	850	20
							0.46		90.0	91.0	0.230	150	320	6800	900	30
							0.42		91.0	92.0	0.230	200	1350	1.26%	900	10
							0.49		92.0	93.0	0.200	150	1400	0.92%	1000	15
							3.53		93.0	94.0	0.145	100	120	2150	800	25
		89.8-92.9:					1.65		94.0	95.0	1.3	100	40	5800	700	35
		Magnetite skarn with common bismuthinite and minor *molybdenite*.														
		Garnet-diopside skarn with abundant *disseminated magnetite in bands*.														
		Abundant bismuthinite as aggregates, *clusters either in skarn ground mass or* associated with magnetite.	98.0	101.0	90											
			101.0	107.0	100											
				110.0	91		%F as									
		92.9-94.5:		113.0	96		CaF2									
		Light brown diopside skarn with several zones of very dark amphibole.		124.0	100											

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From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
		94.5-97.5:					0.69		95.0	96.0	0.755	150	30	3700	500	10
		Dark grey-green skarn with large patches of very dark green chlorite.					0.46		96.0	97.0	0.440	50	<20	2050	300	<100
							0.68		97.0	98.0	0.090	150	20	1220	300	20
		Minor bismuthinite as coarse disseminations, grains and clusters.														
		97.5-98.3:					0.29		98.0	99.0	0.200	150	<20	950	350	10
		Soft brown-grey skarn, leached near base with some core loss.					0.19		99.0	100.0	0.022	50	<20	1080	450	<10
							0.22		100.0	101.0	0.030	50	<20	1380	450	<10
							0.40		101.0	102.0	0.070	50	<20	195	250	25
		Minor disseminated bismuthinite.					1.99		102.0	103.0	0.230	100	20	330	100	10
							1.66		103.0	104.0	0.013	50	<20	400	100	<10
		98.3-111.0:					1.24		104.0	105.0	<0.005	50	<20	40	200	<10
		Grey-green skarn, large patches dark green chlorite set in lighter green-grey ground mass.					0.37		105.0	106.0	0.090	50	20	25	250	160
							0.25		106.0	107.0	0.008	50	<20	50	100	10
							0.31		107.0	108.0	<0.005	100	<20	65	150	15
							0.25		108.0	109.0	<0.005	100	20	260	150	<10
		Significant bismuthinite to 100.8m, then only trace; no magnetite and core competent.					0.36		109.0	110.0	0.560	50	<20	750	250	<10
							0.36		110.0	111.0	0.080	50	40	840	450	80
		111.0-124.0:					0.25		111.0	112.0	<0.005	100	<20	25	500	10
		Buff brown-pink calc silicate; patches of actinolite needles; softer brown honey coloured patches with harder light grey sandstone.					0.22		112.0	113.0	0.005	50	<20	700	500	<10
							0.24		113.0	114.0	<0.005	50	<20	170	450	20
							0.37		114.0	115.0	<0.005	50	<20	50	300	20
							0.24		115.0	116.0	<0.005	50	20	135	400	10
							0.24		116.0	117.0	<0.005	50	20	1620	400	<10
							%F									
124.0	125.8	**Interbedded Skarn-Sandstone:**					0.24		117.0	118.0	0.022	<50	<20	8	500	<10
		Dark green mottled skarn and light grey sandstone cut by thin dark greisen veins.	124.0	134.0	100		0.24		118.0	119.0	<0.005	50	20	20	450	10
							0.28		119.0	120.0	<0.005	50	30	20	500	<10
							0.24		120.0	121.0	<0.005	100	30	15	500	<10
		Unit generally competent but broken near base.					0.27		121.0	122.0	<0.005	50	30	4	550	30
							0.30		122.0	123.0	0.050	150	40	150	450	15
							0.36		123.0	124.0	0.310	6900	90	550	150	10
							1.00		124.0	125.0	0.010	4750	40	30	150	25
							0.84		125.0	126.0	0.005	300	50	15	150	30

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From	To		From	To	%	From	To	%	From	To	Au(g/t)	Zn	Mo	Bi	Sn	W
125.8	152.0	**Greisenised Sandstone:**	134.0	137.0	84											
			137.0	152.0	100											
		Generally dark grey sandstone with thin mudstone beds, strongly greisenised and cut by numerous less than 2 mm quartz-biotite greisen veins.					1.20		136.0	137.0	<0.005	200	50	15	150	90
							0.70		141.5	142.5	<0.005	100	200	5	100	380
		133.5m quartz-biotite vein semi parallel CA.					1.63		150.0	151.0	<0.005	100	90	4	150	220
		Thin mudstone beds altered to cream-fawn sericite-quartz material.														
		Some pink feldspar on joints and fractures.														
		Pervasive pyrite 0.5-1% disseminated and clusters in sandstone, and in greisen veins and as selvages on veins.														
		Core generally competent but some zones intensely brittle fractured.														
		**** END OF HOLE ****														