COMPANY: GOLDSTREAM MINING N.L.,
PROJECT: LYNCHFORD E.L. 9/84
HOLE NUMBER: LYN 002

Commenced	30 April 1993
Completed	12 May 1993
Logged By	L. A. Newnham.
Drilled By	F. L. and D. L. Orther

Purpose
To test beneath high grade surface channel samples and also beneath encouraging Au-As intersection in CRC3.

Comments on Completion
Hole passed approx. 15m. South and 30m. beneath CRC 3 but failed to intersect any corresponding Au-As mineralisation. Limonitic shales and sandstones in the top 40m. of the hole were moderately As anomalous and weakly Au anomalous.

Collar Details

Northing	Easting	Elevation	Dip	Bearing	Grid
7m South LINE 15N	35 WEST BASE LINE	RL.1140	-51	245	Mag.
3460N	5926E	1152		258	

Length
199.1.

Down Hole Surveys		
Depth	Dip	Bearing
0	-51	245
50	-53	245
100	-55	249
151	-54.5	254

Core Size	
Interval	Size
0-8	HW
8-42	HQ
42-199.1	NQ-2

Significant Core Loss Zones	
Interval	% Recovered
0-82 m.	Significant but variable losses.

Summary

Depth		Elevation		Recovery	Description	Assays						
From	To	From	To	%		Length	Au	As				
0	39				Sandstones and Shales		Arsenic	anomalous.				
18	22.						Au anomalous but recoveries poor					
34	36						0.44	0.11	(poor recoveries)			

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Core Recovery				Description				Assays							
From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To	Au g/t	As	Cu	Pb	Zn	Ag
0	4.3	1.3	30	0	11.5	SHALES: Very weathered light gray shales; limonite spotting pervasive (after pyrite? or carbonate?) Occassional limonitic quartz veins. From 10-11m, more limonitic with abundant thin (< 1mm) quartz limonite veins.	very broken and weathered; BCA 30°? (slumped?) Generally poor core recoveries.	0.0	4.0	0.009	160	47	13	75	<1
	6.6	1.0	43					4.0	6.0	0.009	170	33	11	91	<1
	8.8	1.0	45					6.0	8.0	0.007	180	48	15	63	<1
	10.1	0.5	38					8.0	10.0	0.020	200	47	17	60	<1
	11.1	0.9	90					10.0	12.0	0.034	830	44	57	48	<1
				11.5	19.0	SAND: Totally disaggregated sandstone? Occasional lumps limonitic quartz and shales, suggesting sandstone carried narrow shale bands and quartz veins. Recoveries very poor and difficult to say with confidence where samples came from and what actual recovery was.	Disaggregated sand Very poor recoveries.	12.0 (Composite sample of sand)	18.0	0.076	400				
11.1	14.3	0.5	16												
	14.6	Sand													
	14.9	Sand													
	16.1	Sand													
	17.9	Sand													
	19.6	0.4	24												
				19.0	40.0	SHALES with QUARTZ-LIMONITE VEINS: Light gray weathered and decomposed shales, with occasional quartz-limonite veins up to 10cms. wide: 20m, 22m, 32.8m, 35.4m.	Very broken, soft and weathered BCA 40-50° Recoveries improving but still poor.	18.0	20.0	4.140	8800	23	91	30	<1
19.6	20.8	0.6	50					20.0	22.0	0.580	1800	29	51	80	<1
	23.4	1.2	46					22.0	24.0	0.026	310	22	28	72	<1
	24.5	0.8	73					24.0	26.0	0.013	400	49	31	62	<1
	25.1	0.5	83					26.0	28.0	0.026	330	32	24	36	<1
	26.0	0.5	56												

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From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To	Au g/t	As	Cu	Pb	Zn	Ag
26.0	26.7	0.7	100	19.0	40.0	Pervasive limonitic spotting and		28.0	30.0	0.013	250	46	27	54	<1
	28.1	1.0	71	(Continued)		limonite on joint surfaces (after		30.0	32.0	0.005	290	35	30	82	<1
	30.1	2.0	100			pyrite?)		32.0	34.0	0.015	220	35	15	71	<1
	31.1	0.7	70					34.0	36.0	0.441	1090	24	39	68	<1
	32.0	0.9	100			Note: large quantities of sand in the		36.0	39.0	0.009	290	34	24	74	<1
	32.3	0.2	67			core trays in this unit – assumed		39.0	41.0	<0.005	75	46	65	114	<1
	32.8	0.4	80			to have washed in from unit above									
	34.1	0.7	54			and therefore not sampled.									
	34.6	0.4	80												
	35.0	0.1	25												
	35.7	0.4	57												
	36.6	0.2	22												
	37.6	0.4	40												
	38.5	0.5	56												
	39.0	0.4	80												
	40.1	0.8	73												
				40.0	82.4	SHALE:									
40.1	40.4	0.3	100			Dark gray, similar to unit above	Extremely soft and broken	41.0	43.0	<0.005	12	31	32	208	<1
	40.9	0.3	60			but rapidly becoming fresher.	– almost like putty in places.	43.0	45.0	<0.005	30	25	62	181	<1
	42.0	0.7	64				BCA's 50-60°	45.0	48.0	<0.005	55	33	12	203	<1
	43.1	0.5	45			Occasional thin quartz veins		48.0	51.0	<0.005	21	35	31	180	<1
	44.0	0.5	56			and quartz – limonite vein (70.6-70.8)	Poor core recoveries	51.0	53.0	<0.005	36	35	5	167	<1
	44.9	0.8	89			but generally unit not veined.	despite extreme care on	53.0	55.0	<0.005	55	31	17	208	<1
	46.0	0.7	64				rig – overall only 50-60%.	55.0	57.0	<0.005	10	34	29	196	<1
	46.5	0.4	80			Fine grained pervasive pyrite (1-3%)		57.0	59.0	<0.005	11	26	41	162	<1
	48.0	0.8	53			as disseminations and small		59.0	65.00	<0.005	30	31	10	176	<1
	49.1	1.0	90			aggregates – probably weathered to	Tray dropped; no core lost but out of order	59.0	65.00	<0.005	13	32	14	158	<1
	50.1	0.2	20			give spotted limonite appearance to		65.0	67.0	<0.005	12	28	17	217	<1
	50.4	0.2	66			unit above.		67.0	69.0	<0.005	13	30	32	370	<1
	51.3	0.7	78					69.0	71.0	<0.005	14	32	25	364	<1
	52.1	0.5	63					72.0	73.0	<0.005	13	27	14	227	<1
	53.0	0.9	100					73.0	75.0	<0.005	11	29	13	209	<1
	54.6	0.4	25					75.0	77.0	<0.005	11	26	34	291	<1
	55.6	0.5	50					77.0	79.0	<0.005	9	30	29	235	<1
	56.0	0.2	50												
	56.4	0.2	50												
	56.8	0.4	100												

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Core Recovery				Description				Assays							
From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To	Au g/t	As	Cu	Pb	Zn	Ag
56.8	57.7	0.5	56					79.0	81.0	<0.005	14	29	95	265	<1
	58.1	0.4	100					81.0	83.0	<0.005	9	21	20	255	<1
	58.7	0.5	83												
	65.0	5.0	79												
	65.5	0.4	80												
	66.1	0.4	67												
	66.7	0.4	66												
	67.6	0.4	44												
	68.0	0.4	100												
	68.7	0.2	29												
	69.4	0.7	100												
	70.1	0.3	43												
	70.8	0.7	100												
	72.3	0	0												
	73.1	0.4	50												
	73.7	0.4	67												
	74.6	0.6	67												
	76.1	0.8	53												
	77.0	0.8	89												
	77.8	0.6	75												
	79.1	0.6	46												
	79.2	0.1	100												
	80.0	0.6	75												
	81.3	0.3	23												
	82.4	0.5	45												
				82.4	134.0	Interbedded SHALE and LIMESTONE with abundant CALCITE VEINING:	Abrupt change in rock competancy to unit above at 82m.	83.0	85.0	<0.005	7	21	27	105	<1
82.4	91.2	8.8	100					87.0	89.0	<0.005	10	26	28	125	<1
	92.8	0.8	50					91.0	93.0	<0.005	31	25	29	120	<1
	94.1	1.0	77			Shales dark gray, laminated, carbonaceous in parts;		95.0	97.0	<0.005	15	28	16	111	<1
	95.4	1.3	100				Core recoveries good, and generally competant but broken ground.	99.0	101.0	<0.005	9	24	28	110	<1
	97.0	1.4	88			Limestones light gray - white.		103.0	105.0	<0.005	10	26	26	124	<1
	97.9	0.9	100			Individual beds 1-2 cms. thick, often gradational.		107.0	108.0	<0.005	10	26	38	127	<1
	98.7	0.7	88				Most breaks are bedding parallel but also on joints at 30° and 70° C.A.	108.0	110.0	<0.005	9	24	21	124	<1
	100.1	1.3	93					112.0	114.0	<0.005	8	20	26	105	<1
	101.8	1.7	100			BCA uniformly 40-50°		116.0	118.0	<0.005	20	26	22	118	<1
	103.1	1.1	85				Broken zones 91.6-92.8m, 107.7-109.0m. 126.7-129.5m.	118.0	120.0	<0.005	8	25	29	106	<1
	108.2	5.1	100			Set of abundant, thin (0.5-5mm.) calcite veins, strike parallel to bedding		122.0	124.0	<0.005	7	26	16	98	<1
	110.1	1.8	95												
	123.8	13.7	100												
	124.9	0.8	73												

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From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To	Au g/t	As	Cu	Pb	Zn	Ag
124.9	127.1	1.6	73			but VCA 60-70°. Veins least developed in shale beds and generally terminate abruptly against limestone beds.	Core very weak along bedding planes and breaks into 1-2cm. "discs" when sawn.	127.0	129.0	<0.005	8	31	33	117	<1
	129.3	2.2	100					131.0	133.0	<0.005	8	24	25	102	<1
	129.6	0.2	66					133.0	134.0	<0.005	7	24	17	94	<1
	135.4	5.8	100			2 Main generations of narrow calcite veins; early one bedding parallel, later one 45° bedding dip but parallel strike.									
						Occasional quartz-carbonate vein zones: 96.4-96.6 m. 107.7-109.7 m. 118.3-119.3 m. 127.1-128.6 m.									
						Quartz carbonate veins accompanied by soft brown mineral.									
						Qtz-carbonate and calcite veining decreases significantly after 114 m.									
						Fine grained pyrite pervasive (1-3%) in shales and limestones; as dissemin, blebs and aggregates, and discontinuous bedding parallel veins.									
						No sulfides in calcite veins and only rare blebs in qtz-carb. veins.									
135.4	142.5	7.1	100	134.0	142.5	LIMESTONE: Banded dark gray-light gray limestone cut by occasional calcite veins.	Intensely fractured along bedding. BCA uniform 50°.	136.0	138.0	<0.005	7				
								140.0	142.0	<0.005	10				
								142.0	144.0	<0.005	11				

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From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To	Au g/t	As				
						Fine grained pyrite throughout as disseminations and aggregates									
142.5	165.0	22.5	100	142.5	165.0	Interbedded LIMESTONES and SHALES:									
						Interbedded dark gray shales and light gray limestone, cut by narrow calcite veins and later quartz-carbonate veins.	Strongly fractured, especially where cut by qtz-carbonate veins.	145.0	147.0	<0.005	11				
								147.0	149.0	<0.005	16				
								152.5	154.5	<0.005	11				
								154.5	156.5	0.007	16				
							BCA shallowing to 25-30°.	156.5	158.5	<0.005	19				
								159.5	161.5	<0.005	11				
						Shales generally calcareous and carbonaceous.	Core orientation surveys suggest bedding near vertical, poss. steeply E.	163.0	165.0	<0.005	23				
						Limestone contains abundant crinoid fragments.									
						Significant quartz-carbonate vein zones 145.5 – 147.9 m. and 153.0 – 161.3 m.									
						Fine grained pervasive pyrite (1-2%) as disseminations, and bedding parallel blebs and aggregates.									
				165.0	199.1	CRINOIDAL LIMESTONE:									
165.0	199.1	34.1	100			Interbedded light and dark gray limestone. Light gray units are crinoidal, dark gray units have shale component. Shale units become less calcareous towards base of hole.	very weak along bedding and fractures readily.	167.0	169.0	<0.005	31				
								171.0	173.0	<0.005	10				
								175.0	177.0	<0.005	11				
							BCA 30-40° increasing to 40-50° near bottom.	179.0	181.0	<0.005	8				
								183.0	185.0	<0.005	9				
							Core orientation surveys at 181 & 190 suggest bedding near vertical, striking 260 (approx.)	187.0	189.0	<0.005	8				
								191.0	193.0	<0.005	7				
						Numerous thin (<5mm.) calcite veins		195.0	197.0	<0.005	10				

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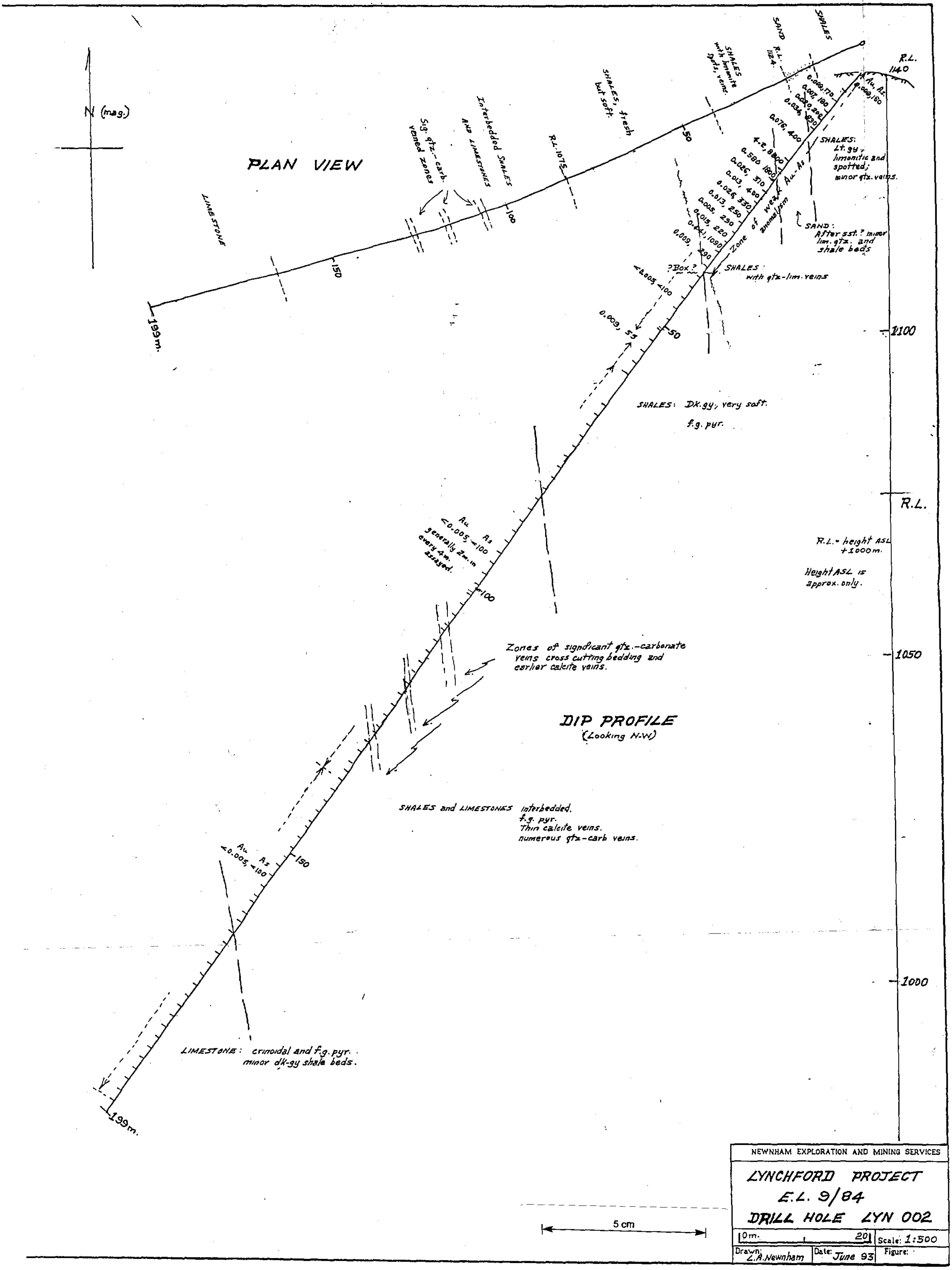
From	To	m.	%	From	To	Lithology and Mineralisation	Structure	From	To						
				165.0 (continued)	199.1	parallel to bedding and restricted to calcareous shale and shale beds. Occasional 5-10 cm. quartz - carbonate veins. Pervasive fine grained pyrite (2-3%) throughout, occasionally euhedral and sometimes within crinoid sections. END OF HOLE									


N (mag.)
PLAN VIEW
LIMESTONE
Sig. qtz.-carb. veined zones
Interbedded SHALES AND LIMESTONES
R.L. 1075
SHALES, fresh but soft.
SHALES with limonite spots, veins.
R.L. 1124
SAND
SHALES
50
100
150
199m.
R.L. 1140
Au, As
0.009,160
0.009,170
0.007, 180
0.020, 200
0.034, 830
0.076, 400
4.2, 8800
0.580 1800
0.026, 310
0.013, 400
0.026, 330
0.013, 250
0.005, 290
0.015, 220
0.041, 1090
0.009, 290
Zone of weak Au-As anomalism
SHALES: Lt. gy., limonitic and spotted; minor qtz. veins.
SAND: After sst.? minor lim. qtz. and shale beds
?Box?
SHALES with qtz-lim. veins
<0.005 <100
0.009, 55
50
1100
SHALES: DK.gy., very soft. f.g. pyr.
R.L.
Au As <0.005, <100 generally 2m. in every 4m. assayed.
R.L. = height ASL +1000m.
Height ASL is approx. only.
100
Zones of significant qtz.-carbonate veins cross cutting bedding and earlier calcite veins.
1050
DIP PROFILE
(Looking N.W)
SHALES and LIMESTONES interbedded. f.g. pyr. Thin calcite veins. numerous qtz-carb veins.
Au As <0.005, <100
150
1000
LIMESTONE: crinoidal and f.g. pyr. minor dk-gy shale beds.
199m.
5 cm
NEWNHAM EXPLORATION AND MINING SERVICES
LYNCHFORD PROJECT
E.L. 9/84
DRILL HOLE LYN 002
0m. 20
Scale: 1:500
Drawn: L.A. Newnham
Date: June 93
Figure:

345029