

LOCATION	Sterling Valley E.L. 4/73	Depth (M)	Direction	Dip.	Depth (M)	Direction	Dip.	COLLAR DIP.	-60°	TOTAL DEPTH	268.8m
OBJECTIVE	To test coincident ground magnetic, I.P. & V.H.E.M. anomalies	91.8	*141.5°	-46°	208.8	93°	-26°	DIRECTION	108°(A.M.G.)	HOLE SIZE	HQ 0-11.7m NQ 11.7-72m
RESULT	Anomalies were due to minor pyrrhotite & pyrite associated with black slate	121.8	*237.5°	-44°	239.0	96.5°	-22°	R.L.	178M	COMMENCED	BQ 72-268.8m
		157.8	*147.5°	-41°	261.8	95°	-21°	COORDINATES	4275N 5000E	COMPLETED	8.11.'80
			*234°	-41°				St. Valley Grid (5,374,200mN 384,625mE)		LOGGED BY	A. Mollison/J. Mill

\* azimuth readings affected by pyrrhotite

Depth (M)		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA (ppm)							CORE REC'D		
FROM	TO							Sample Length	Pb	Zn	Cu	Ag - g/t	Au - g/t	Sn	As	RUN	SHORT
0	88	Fluvio-glacial overburden.															
8	13.8	<u>Black Slate</u> - Dk gry-black cleaved contorted pyritic slate. Minor carbonate & quartz veining occurs parallel to and cross cutting cleavage. A soft pale green mineral (probably chlorite) occurs associated with these quartz carbonate veins. Leaching of carbonate is extensive. Core angles 13.8 -65° to long core axis. Contact with underlying tuffaceous unit is conformable, with a tuff clast in shale immediately above contact giving a possible west facing.	Pyrite occurs as blebs, cubes & veins up to 10% averaging 1-2%. Mineralisation is strongest in association with quartz/carbonate veining 8.0m-8.7m and 13.5m-13.8m	38363	8.0	8.7	Sc	0.7	75	50	100	0.3	0.008	580	190	0	
				364	8.7	13.6	Chip	4.9	75	130	140	1.0		X	90	8	8.0
				365	13.6	13.8	Sc	0.2	100	100	125	0.5	X	84	650	8.7	0.1
																9	0.3
																9.4	
																10.8	-
																11.7	-
																12.85	0
																14.1	0.15
																16.8	0.1
																19.8	0.1
																22.8	-
																25.8	-
13.8	24.5	<u>Volcaniclastic Siltstone</u> - Ple grey-green grey moderately cleaved fg volcaniclastic siltstone. Rounded amorphous fragments up to 5cm in diameter in a pale green chloritic? matrix suggest local brecciation. (Thin section taken at m Sample No )	Trace disseminated & stringer pyrite <1%	38366	13.8	17	Chip	3.2	75	110	20	1.0		X	15	28.8	0.2
				367	17	21	"	4.0	60	195	10	0.3		X	4	31.8	0.4
				368	21	24.5	"	3.5	45	100	5	1.0		X	4	34.8	0.1
																37.8	0.1
																39.8	0.3
																42.9	0.1
																45.5	0.3
																48.7	-
24.5	29.9	<u>Black Slate</u> - Similar to 8.0m-13.8m but with minor thin silty laminations between 28.8m and 29.9m. Local thin <0.5cm veins of quartz siderite? carbonate, chlorite containing minor pyrite. Locally leached. Bottom contact appears gradational	Moderately pyritic, as veins parallel to cleavage av 1-2%. Core angles: bedding to long core axis 24.9m -60° 29.9m -60°	38369	24.5	29.9	Chip	5.4	130	225	80	1.0		400	65	51.8	-
																58	-
																61.1	-
																64.8	-
																67.8	-
																72	-
																73.8	-
																76.8	-
																79.8	-
29.9	32.6	<u>Volcaniclastic siltstone/greywacke</u> - Similar to 13.8-24.5m with thin black slate band 31.2-31.7m. Below 31.7m, this unit becomes rapidly coarser down hole with elongate shale clasts up to 10cm dia (long axis) & smaller rounded volcanic fragments of quartz porphyry. No appreciable veining. Bed appears to be graded giving west facing.	Diss pyrite ± 1%	38370	29.9	32.6	Chip	2.7	75	150	35	1.0		X	31	82.8	0.2
																85.8	-
																88.8	0.1
																90.9	0.1
																93.9	-
																97	-
																100.1	-
																103.2	-
																105.4	-













Sample No.	From	To	Core Rec'd	Sample Length	Pb	Zn	Cu	Assay Ag	Data Au	per Sn	ppm As	Fe%	Mn	
38363S	8.0	8.7	0.6	0.7	75	50	100	0.3	0.008	580	190	2.20	185	
364C	8.7	13.6	4.5	4.9	75	130	140	1.0		X	90	3.35	1050	
365S	13.6	13.8	0.2	0.2	100	100	125	0.5	X	84	650	2.75	3250	
366C	13.8	17	3.05	3.2	75	110	20	1.0		X	15	1.80	1000	
367C	17	21	3.9	4	60	195	10	0.3		X	4	0.93	900	
368C	21	24.5	3.5	3.5	45	100	5	1.0		X	4	0.79	230	
369C	24.5	29.9	5.2	5.4	130	225	80	1.0		400	65	4.35	1300	
38370C	29.9	32.6	2.3	2.7	75	150	35	1.0		X	31	2.90	1350	
371C	32.6	37.6	4.8	5	40	135	135	0.5		X	60	5.70	6850	
372C	37.6	41.8	3.9	4.2	265	335	120	1.5		X	60	5.0	3900	
373C	41.8	45.5	3.3	3.7	120	165	140	1.0		X	44	4.75	3200	
374C	45.5	47.4	1.9	1.9	110	170	95	1.0		X	18	4.30	1700	
375C	47.4	51.8	4.4	4.4	35	950	100	0.5		X	51	4.75	2150	
376C	51.8	52.3	0.5	0.5	85	210	125	1.0		X	24	4.40	3450	
377C	52.3	56.9	4.6	4.6	95	250	95	X		X	40	4.45	1850	
378C	56.9	61.3	4.4	4.4	65	115	95	1.0		X	35	4.10	1700	
379C	61.3	66.3	5.0	5.0	100	520	100	1.5		X	39	4.80	3000	
38380	66.3	71.3	5.0	5.0	65	130	80	0.5		X	46	4.25	2850	
381C	71.3	76.3	5.0	5.0	55	130	120	0.5		X	60	5.75	1950	
382C	76.3	80.7	4.4	4.4	90	230	115	0.5		8	43	5.40	2050	
383C	80.7	83.1	2.2	2.4	125	690	60	0.5		X	25	2.95	1450	
384C	83.1	88.1	4.9	5.0	85	220	10	0.5		X	6	0.78	560	
385S	88.1	89.2	1.1	1.1	425	220	25	X	X	425	25	0.87	800	
386S	89.2	90.2	0.9	1.0	220	125	60	3.0	0.032	220	4000	1.95	3150	
387C	90.2	94.7	4.5	4.5	60	45	105	1.0		X	3800	2.60	345	
388S	94.7	95.8	1.1	1.1	340	100	305	7.5	0.064	14	2.2%	1.55	530	
389S	95.7	96.0	0.3	0.3	40	40	95	0.5	X	10	650	3.00	375	
38390S	96.0	96.25	0.25	0.25	50	70	2750	6.0	X	X	150	2.30	1500	
391C	96.25	97.1	0.85	0.85										
392C	97.1	106.5	9.4	9.4	170	175	400	1.5			2	250	2.10	1700
393S	106.5	107.5	1.0	1.0	80	95	85	0.5	X	58	150	2.80	2400	
394S	107.5	108.5	1.0	1.0	105	105	25	X	X	12	65	2.65	1850	
395C	108.5	113.5	5.0	5.0	100	310	30	1.5		X	50	1.10	1350	
396C	113.5	118.5	5.0	5.0	80	220	15	0.5		X	55	0.95	695	
397C	118.5	122.5	4.0	4.0	45	135	15	0.5		4	14	1.15	465	
398C	122.5	126.4	4.0	4.0	40	80	15	0.5		X	35	1.55	730	
399C	126.4	129.5	3.1	3.1	80	180	40	0.5		X	450	3.55	1200	
38400C	129.5	133	3.5	3.5	113	225	15	0.5		X	32	1.20	1000	

SAMPLE

LOST

Sample No.	From	To	Core Rec'd	Sample Length	Pb	Zn	Assay Cu	Data Ag	per Au	ppm	Sn	As	Fe%	Mn
35448C	133	137	4.0	4.0	70	150	15	0.5			X	35	1.36	1200
449S	137	138	1.0	1.0	300	425	45	X			X	40	2.65	2350
38450S	138	138.7	0.7	0.7	3.25%	3.2%	4850	81.0	X		1500	2000	0.98	1.85%
452S	138.7	139.7	1.0	1.0	4550	8200	1250	10.0	X		380	380	1.95	5700
453S	139.7	140.7	1.0	1.0	1850	2100	180	3.0	X		640	190	1.95	5250
454S	140.7	141.7	1.0	1.0	350	280	100	1.5	X		360	110	2.10	5350
455S	141.7	142.7	1.0	1.0	210	145	85	0.5	X		X	110	3.75	3650
456S	142.7	143.1	0.4	0.4	90	75	80	0.5	X		X	110	2.75	2800
457C	143.1	148.8	0.7	0.7	70	250	135	1.0			X	90	4.15	1950
458C	148.8	151.2	2.2	2.4	240	740	100	2.0			X	550	5.25	1650
459C	151.2	157.2	6.1	6.3	125	900	100	1.5			X	230	4.50	1150
35460C	157.5	162.5	4.9	5.0	65	175	70	0.5			X	360	4.15	1950
461C	162.5	167.5	5.0	5.0	70	115	15	1.0			X	15	1.85	690
462C	167.5	171.9	4.4	4.4	145	100	10	1.0			X	8	1.85	730
463C	171.9	175.5	3.6	3.6	85	325	30	1.0			X	19	2.15	850
464C	175.5	180.3	4.8	4.8	45	530	60	1.0			X	65	3.25	1200
465C	180.3	185.3	5.0	5.0	515	480	15	1.5			X	24	0.95	465
466C	185.3	190.3	5.0	5.0	100	200	10	0.5			X	27	0.53	330
467C	190.3	195.3	5.0	5.0	125	290	10	0.5			X	11	0.65	380
468C	195.3	200.3	5.0	5.0	740	205	10	1.5			X	27	0.59	255
469C	200.3	205.3	5.0	5.0	215	275	15	1.0			X	37	0.67	235
35470C	205.3	211.5	6.2	6.2	150	110	15	1.0			X	22	1.10	480
471S	211.5	212.0	0.5	0.5	65	115	35	X	X		X	30	1.05	220
472S	212.0	213.0	1.0	1.0	40	145	65	X	X		X	32	2.45	800
473S	213.0	214.0	1.0	1.0	30	135	60	X	X		X	26	3.0	710
474S	214.0	215.0	1.0	1.0	35	110	50	X	X		X	50	2.35	255
475S	215.0	216.0	1.0	1.0	85	415	65	X	X		X	36	2.40	620
476S	216.0	217.0	1.0	1.0	135	175	55	X	X		X	50	2.75	305
477S	217.0	218.0	1.0	1.0	340	690	70	X	X		X	46	2.40	650
478S	218.0	219.0	1.0	1.0	255	290	65	X	X		X	43	2.75	440
479S	219.0	220.0	1.0	1.0	75	100	50	X	X		X	50	2.20	515
35480S	220.0	220.5	0.5	0.5	60	100	50	X	X		X	35	2.60	735
481S	220.5	220.8	0.3	0.3	15	50	20	X	X		X	15	1.30	620
482S	220.8	221.8	1.0	1.0	10	40	25	0.5	X		X	20	1.45	450
483S	221.8	222.3	0.5	0.5	10	30	50	X	X		X	9	2.00	565
484C	222.3	227.7	5.4	5.4	40	115	10	0.5			X	9	0.56	285
485C	227.7	229.1	1.4	1.4	40	65	90	0.5			X	28	3.20	1000
486C	229.1	232.0	2.9	2.9	55	115	115	1.0			X	360	5.00	2950
487C	232	233.7	1.7	1.7	80	85	90	1.5			X	41	4.15	4450
488C	233.7	235.8	2.1	2.1	80	190	55	1.0			X	17	2.85	1700
489C	235.8	240.8	5.0	5.0	55	85	25	0.5			X	21	1.90	720

Sample Number	From	To	Core Rec'd	Sample Length	Pb	Zn	Assay Cu	Data Ag	per Au	ppm Sn	As	Fe%	Mn
35490C	240.8	244.7	3.9	3.9	50	80	25	0.5		X	9	1.95	1300
491C	244.7	246.8	2.1	2.1	45	105	90	1.0		X	41	4.35	1550
492C	246.8	247.7	0.9	0.9	51	165	100	1.0		X	36	4.45	675
493C	247.7	251.5	3.8	3.8	765	740	110	2.0		X	62	4.75	1750
494C	251.5	256.8	5.3	5.3	3850	1.8%	205	9.0		X	70	4.60	1300
496C	260.7	262.8	2.1	2.1	140	1300	95	2.0		X	42	1.80	2550
497C	262.8	265.1	2.3	2.3	2850	750	20	1.5		X	7	3.60	3350
498C	265.1	268.8	3.7	3.7	60	90	85	6.5		X	35	0.59	350

CORE ANGLES

256.6m	68°
259.5m	60°
264.9m	86°