

Hole ID	MS-03	Project	
Hole Type		Tenement No.	
Year	1999	Prospect	
Geologist	ARC	Date	9/1/99

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %					
5.0		Light								
		bl								
10		Green-brown						11.3/0.5/??%		
15			quartz - hematite - calcite	plms (2) 9 bl. Ser, sil (1) (ground min)			silico (1)			brown sil bands are more intense leached / weathered
20										
25		Light brown								
		bl								
		Green					2.0			
							silico (2)			
30										

645147

Hole ID	Project
Hole Type	Tenement No.
Year	Prospect
Geologist	Date
APM	4/5/99

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log	
	Code	Colour								
30					in to 3 (1-2)					+
35		green.								+
37.9		37.9								+
40		brown								+
42		Lot green	quartz - feldspar - Fe Mg	clay (D) after yellow ser, sil (m) granulose.			sil + Co (2)			+ brown - green interbedded weathered - green mineral w. v. frch.
45		45								+
50		brown- green								+
55										+

645148

Hole ID	Project
Hole Type	Tenement No.
Year	Prospect
Geologist	Date
Artin	4/5/99

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log	
	Code	Colour								
55										Hand-drawn symbols: vertical lines, crosses, and dots.
60										Hand-drawn symbols: vertical lines, crosses, and dots.
65										Hand-drawn symbols: vertical lines, crosses, and dots.
70		green-brown	Quartz-feldspar-porphyrus. (E zone narrow 20m. zone of brecciation is Co (G 58-6m) or vk material (G 74-8m)	Clms (2) (light yellow) Sil, bar (1) (4 grains)			Sil+Co (2)			Hand-drawn symbols: vertical lines, crosses, and dots. Includes a note: "all faults loaded & unroofed"
75										Hand-drawn symbols: vertical lines, crosses, and dots.
80										Hand-drawn symbols: vertical lines, crosses, and dots.

645149

Hole ID	Project
Hole Type	Tenement No.
Year	Prospect
Geologist	Date
Apur	7/5/77

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour		Up to 3 codes w. Intensities (1-3)	Up to 3 codes with %					
80	81-0	Green-brown		2.2r (2) Chl (1)		80-4 Fr. + 45% Chl (weakly defined flow-banding)	Co + Sil (1)			80-0 end of obvious weathering.
85	82-0	Brown-Pink		Silky (1) Ser. Chl (1)			81-5 Co + Sil + Chl (1)			
90	82-3	Pink		82-3 Silky (1) Chl. Ser (1)			81-9 Co + Sil (1)			
95	91-0		Quartz-feldspar-porphyry (average size of 92 m. seems to be decreasing whole)	91-0			81-9 Co + Sil (1)			
95		Brown		Silky (1) Chl, Ser (1)			91-4 Co + Sil + Chl (1)			
100							91-2			
105							Co + Sil (1)			100
110							91-7 91-8			

645150

Hole_ID	M5-09	Project	
Hole_Type		Tenement No.	
Year	1999	Prospect	
Geologist	A/N	Date	15/99

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
130		brown		sil kb (1) ser chl (1)			Co sil + chl (2)		
		1551		187		1446			
135		Pink		sil kb (2)	1446				
		1561		1165	1357				
140					1000		140-1		
		Pink Green (Ltram)	Quartz - keldone complex	sil kb (1) ser chl (2)	1/2 B (tr) 1/2 S (tr)		Sil kb chl (3)	1444	
151									
160								1460-1/40 (R, ch)	
							Sil, Co (1)		
165									
170									
175									
180									
185									
190									

645152

Hole ID	M5-08	Project	
Hole Type		Tenement No.	
Year	1994	Prospect	Bathice
Geologist	AMKA	Date	2/5/94

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour						
155			Sl, kfs (1) ser, chl (2)			Sil (Co) (2)		
160		Pink Green				Sil (Co) ± H (3)		
165			Sl, kfs (2) ser, chl (2)			Sil (Co) (2)		
170			quartz - feldspar - orthoclase			Sil (Co) ± chl (3)		
175		Pink	Sl, kfs (2)			Sil (Co) ± chl (3)		
180			Sl, kfs (2) ser, chl (1)			Sil (Co) (2)		
185						Sil (Co) ± chl (3)		
190						Sil (Co) (2)		
195						Sil (Co) ± chl (3)		
200						Sil (Co) (2)		

645153

Hole ID	MS-8	Project	
Hole Type		Tenement No.	
Year	1991	Prospect	
Geologist	RAEN	Date	8/5/91

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
190		Pink		Sl, Kp (2)			Co + sil (3)		
		190-0		190-0			190		
195		Pink green	Quartz-feldspar-porphyrus Trace no obvious matrix clots.	chl, sr (2) Sl (1)			Co + sil ± chl (2)	Mo/0/0/40/Pu 10/0/0/0/0/0/0/0	
		195-0		195-0			195-0		
200		Brown		chl, sr (3) Sl (1)				Mo/0/0/0/0/Pu 10/0/0/0/0/0/0/0	
		200-0		200-0			200-0		
205		Grey Pink	Polymict, matrix calcic-rich volcaniclastic sandstone.	Ser, chl (2)			Co + sil ± chl (3) 10/0/0/0/0/0/0/0		
		205-0		205-0			205-0		
210			clastic matrix calcic-rich volcaniclastic sandstone. clastic matrix calcic-rich volcaniclastic sandstone. ungrounded, clastic supported (v. sp. for chl-rich) lithic clasts to 80mm dia.				Co + sil (3)		
		210-0		210-0			210-0		
215		White, Green	Sl ± Co vln				Co + sil ± chl (4)		
		215-0		215-0			215-0		
220		Pink, Green	quartz-feldspar-porphyrus.	chl, sr (1) Sl, Kp, S (2)			Co + sil ± Ser (3)		
		220-0		220-0			220-0		
225		White	Sl ± Co vln				Co + sil ± chl (4)		
		225-0		225-0			225-0		
230		Brown	quartz-feldspar-porphyrus	chl (1) sl (1) Ser (1) eff H			Co + sil (3)		
		230-0		230-0			230-0		

645154

Hole_ID	MS-8	Project	
Hole_Type		Tenement No.	
Year	1994	Prospect	Bentley
Geologist	AMN	Date	8/1/94

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
15		brwn. green		chl (2) sil (1) hr (2) & d.			Co sil (2)		 +
		208-0					208-0 Sil/Co ± chl ± kfs (2)	208-0/0-3/65/100% F	 +
20								2101/0-3/65/100% F	 +
215		Pink brown	Quartz-kelidar-orthopyrox quartz (to 0.7m) felspar (to 0.7m - chlorite-st?) - var. altered. Matrix clots + trace rutile.	Sil (1) kfs/hr (1-2) (mkt/dx)			Co + Sil (1)		 +
220							220-0 Co sil ± kfs ± sp (2)		 +
225				Sil (2) chl (2) part. kfs/hr (1)			225-0 Co sil ± chl ± hr (2)	225-0/0-1/60/40% F	 +
230				chl/hr (1) Sil, kfs (2)			230-0 Co + Sil (2)		 +

645155

Hole ID	A39	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	AMU	Date	3/5/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour						
40		Pink Green						
			Quartz-kelluvor-porphyr 241-2309 - 2nd smaller shale clast.	Sl, Gyl (2) Chl, Ser (A)				
45						Co sil (1)		
49	2379			2379	2379	Co sil (3) 2379	2379 fault	
49		Black, Green	Shale matrix volcanoclastic ± qz phen, irregular porphyres (porphy?) clast and kelluvor phen.	Chl, Ser (S) L410	Bas (0.5%) Ser (A)	2379/02/50/100	2410 porphyre	
50	L410			L410	L410	Co sil (2)		
		Green Pink	Quartz-kelluvor-porphyr	Ser, Sl (2-3) 2437			2437 porphyre	
52	2437			2437	2437	Co sil (2)		
		Black Green	Shale matrix volcanoclastic ± qz + fd phen, irregular porphyry (porphy?) and matrix. Pyrite clasts.	Chl, Ser (S) 2437	Py sil (0.5%)	2437/02/50/100	2437 fault	
55	2437			2437	2437	Co sil (2)		
		Black	poorly laminated black shale.	Co (1) 2437	2437 S = 20% to 40% 2437 Co sil (1)	2437/02/50/100	2437 fault	
57	2437			2437	2437	Co sil (2)		
		Pink, Green	Quartz-kelluvor-porphyr	Sl, Ser (2-3)			2437 porphyre Area	
60	2502			2502	2502	Co sil (2)		
		Black Green, Red	Shale, poorly laminated	2502 Sl, Ser (2-3)	2502 S = 60% to 100%	2502/02/50/100	2502 porphyre 2502 porphyre	
62	2502			2502	2502	Co sil (2)		
		Green	Quartz-kelluvor-porphyr ± shale 'clasts' at 252.9-253.9	Sl, Ser, Chl (1)				

645156

Hole_ID	141	Project	
Hole_Type		Tenement No.	
Year		Prospect	
Geologist	APM	Date	22/4/99

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
160									
165		Brown.		Sil, Ser, Ch (1) "residual"					
170		267-0	quartz - feldspar - potash Quartz to 0.75 dia; feldspar to 0.75 dia. Musc. to 0.4 dia. Some matrix clots to 1cm dia; Nicks to 0.6 cm long. (not keratized)	266-0	266-0		Co (S) (2)	267/0.05/0/Pu	
175		black-green		Sil, Ser, Ch (1) NATURAL Ch (1-3)	15 (1) in sh				
180				268-0				267/0.05/70/Ch (1)	
185				Sil, Ser, Ch (1) "residual"	180-0				

645157

Hole ID	MS-8	Location	Queenston
Hole Type	DDH	Tenement No.	6198
Year	1999	Prospect	Beatrice
Geologist	APL/N	Date	24/5/99

Depth	Lithology		Alteration	Mineralization	Structure	Veining	Faults	Graphic Log
	Code	Colour						
285								+ + + +
290		Dark-Green	quartz-feldspar porphyries Scattered altered matrix minerals (Also Mica Mineralized zone)	Sil, Ser, Chl (1) 'Regional'		Sil+Co (1)		+ + + +
294				290.5 dis Pg (tr) 290.5 dis Co (100%) 291.4			291.4 Gabbro over 0.2m	+ +
295				dis Mn Pg (1%) in SE (tr)	291.2 Sp. 25' to 40A	Sil+Co (2)	291.9 / 0.5 / 2 / Bed 294.2 / 0.3 / 20 / Bed 295.1 / 0.1 / 40 / Bed	--- F --- F --- F
300		Black-Grey	Laminated black shale with calc. mud matrix, chert-r. ch. (exp. silty) interbeds (≤ 5 cm thick) 'synchronous' porphy on some beds. Shale - carbonate-rich in part.	296.0 dis Mn Pg (tr)	296.0 Sp. 45' to 60A	Sil+Co (1)		+ + +
300				299.5 Chl (2) ser (2) dis Mn Pg (tr) dis Mn Pg (tr) dis Mn Pg (tr) dis Mn Pg (tr)	298.5 Sp. 45' to 60A	Sil+Co (2)	299.5 299.5	299.5 Repitite Contact (over 0.2m)
		Dark-Green	quartz-feldspar porphyries (matrix den. rare-absent)	Sil, Ser (1) 'Regional'	300.3	Sil+Co (1)		+ +
		Black	Laminated black shale/siltstone		304.2 Sp. 50' to 60A			302.3 Repitite Contact (over 0.2m)
		Orange-pink	quartz-feldspar porphyries; no det. matrix.	Sil, Lg: (1)	304.2	Co (2)		304.2 Siltstone Sharp Contact.

645158

Hole ID	MS-9	Tenement No.	
Hole Type		Prospect	
Year		Date	24/11/99
Geologist	APM		

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour						
310		Black Brown	307.7 Sil, Kfs? (1)	307.7 dis Ks (hr) V54 (52) 309.0 30:35% Cu		Co (1) 105.6		307.7 Irregular Contact (over 0.1m)
315		Black	310.0	311 dis Pg (hr)		Small scale bedding offset throughout		310.0 Contact (over 0.5m)
320		Black Green	315.4	315.4 dis R (12) 315.5 dis, dis Se (12) 316.0 dis B (0.5) 316.0		Sil + Co (1)		315.4 Irregular Contact
320		Pink, Green	316.4	316.4 Sil, Kfs? (2)				316.4 Irregular Contact 316.7 Planar Contact 316.8 Irregular Contact
325		Black, Pink-Green	322.4	322.4 Sil, Kfs? (2) Ser (1)				320.7 Pyritic (0.05m)
325		Black Grs	322.4	322.4 dis, dis Pg (52) 322.7	322.4 dis, dis Pg (0.5)			322.4 Pyritic (0.01m)
330		Black Green	326.6	326.6 dis, dis Pg (35) 326.1	326.6 dis, dis Pg (0.5)			326.1 Pyritic (over 0.1m) 326.6
330		Green Pink	327.1	327.1 dis, dis Pg (0.5) 327.1 dis, dis Pg (0.5)	327.1 dis, dis Pg (0.5)	Sil + Co (2)		327.1 Pyritic (over 0.1m)
330		Green Pink		328.1 dis, dis Pg (1)		Sil + Co (1)		

645159

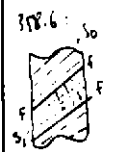
Hole ID	M58	Tenement	
Hole Type		Prospect	
Year		Date	29/1/99
Geologist	AMC		

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour		Up to 3 codes w. Intensities (1-3)	Up to 3 codes with %					
350		green pink	Quartz-feldspar-perthite Minor mafic phenocrysts.	Sil, Ser (1)						
355				Sil (1) Ser (2)	355.0					
357.4		black grey	black shale and grey siltstone/sandstone shaly/bt beds < 2mm thick; shaly/bt calcareous Planes laminated - no obvious foldings	357.4	dark Ps (10-12) sh Sp (4r)	357.4	357.4 Sp = 40 to 60%			to Correlate for 357-359.0, above + below the structural disrupted.
360				360.4	dark Ps (12) sh Sp (4r)	360.4				
362.6		green brown	Quartz-feldspar-perthite Minor mafic phenocrysts in centre of unit	362.6 Sil, Ser (1)						
364.2				364.2						
366					dark + Va Ps (10-12)	366 Sp = 40 to 60%				
369		black grey	black shale + thin calcareous interbedded w. green siltstone/sandstone. bedding tectonically disrupted; no obvious form. some 'link' shale beds in 60	369	dark + Va Ps (12) sh Sp (4r)	369.0 Sp = 40 to 60%	369.3			
370										
370.3										
375.3					dark + Va Ps (10-12)	375.3 Sp = 60 to 80%				
375.3										

Hole_ID	MS-8	Tenement no.	
Hole_Type		Prospect	
Year		Date	27/3/99
Geologist	AMN		

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
155		black green	black shale is interbedded thin siliceous sandstone minor non-carbonaceous.				Co + sil (1)		
		black green	black shale is interbedded silt/sil and green siliceous sandstone; non-carbonaceous		388.0 30% 45° to 60°			388.0/01/02/1/2/3/4	
160		white green black	Fault Zone / shale		388.5 6-35° to 60°		Silt + Co ± chl (3)	388.5 planar, abrupt 388.6 faulted	388.6 So Si
		black	lt. laminated black shale		388.7			388.7/39/50/41/10	
165		black brown	interbedded black shale and ortho qtz schist bear siltstone, sandstone interbeds. thicker sandstone beds are carbonate-rich		388.7 30-35° to 60°		Co + sil (1)	388.7 gradational over 0.4m	388.6 So
		black	lt. laminated black shale		389.2 30-35° to 60°			389.2 gradational over 0.2m	
		white black	shale / Fault Zone; strongly sil + Co ± chl veined broken, see pages 171-172		389.2 389.3 389.4		Silt + Co ± chl (3)	389.2 fault	
170		brown green	quartz-feldspar porphyry minor mafic phenocrysts		389.4		Silt + Co ± chl ± kb (3)	389.3 strongly veined, banded?	

Small scale fault
disrupts beds
in well developed
Si concentration
26/ to mineral



6451101

Hole ID	M58	Tenement	
Hole Type		Prospect	
Year		Date	1/7/94
Geologist	AMC		

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
385						380-3 flow body = 75" to lca.			
390									
435		bram-green	Quartz-Kalsedon Porphyries Weakly flow-banded in fault, some minor zones of brecciation No. of. matrix clasts, x alt. matrix common - rare. Several generations of veining i) Sil + Co ± kfs (rare) Ch. by ii) Sil + chl ± Co ← (± ser, Asp) major phase Ch. by: no Sil + Co	Silice (1)	Va + sil + sp (rare) Va Gr (0.05%) Va Asp (tr)		Sil + Co ± chl ± kfs (S) (± ser, Asp)	M58/08/1/BK M58/02/1/BK	
440								M58/02/1/BK	
445									

645162

Hole ID	M1-07	Tenement	
Hole Type		Prospect	
Year		Date	16/4/99
Geologist	A.M.N		

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
410		Green brown	quartz - feldspar porphyry	Sil (br) (1)	Vn actin sp (6-12) Vn sr (0-0.01) Vn py (1-2)		Sil + Co ± chl ± kfs (3)		 + +
415		White green	Ven - Sil + Co ± chl	415-1	415-1		415-1 Sil + Co ± chl 415-2 (4%)	415-1 irregular 415-2 irregular	 + +
420									 + +
425		brown orange	quartz - feldspar porphyry	Sil (br) (1)	Vn sr (0.2%) Vn py (br)		Sil + Co ± chl ± kfs (± sp, qtz) (3)		 + +
430									 + +

645163

Hole ID	ms-3	Tenement No.	
Hole Type		Prospect	
Year		Date	16/04/99
Geologist	ANCN		

Depth	Lithology		Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
	Code	Colour						
435		tan orange	sil (kfr) m	Vn Si (0.2?) Vn gr (tr)				X /
440		quartz-feldspar porphyry	441			sil (kfr) ch ± kfr (tr) (s)	442 0.1/70/100/100	" + "
445		green tan	sil ser chl (s)	Vn dm (s) (0.2) Vn gr (tr)		443 Co sil ± chl (s)		" + "
450		black green	444 445 446 447 Vn: chl ser (s)	448 Vn Si (0.1-2) Vn + dm P ₁ (0.5) Vn gr (tr)	449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	449 reports 100% 0.5m	" + "	
455		black slate	451-8	Vn Si (0.1-2) Vn + dm P ₁ (1?) Vn gr (tr)	458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	451-8 irregular lower 0.1m	" + "	

Hole_ID	M3-3	Project	
Hole_Type		Tenement No.	
Year	1999	Prospect	
Geologist	AMM	Date	14/8/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour						
	Green		455.1 Vot, ± shaly clnsh.	455.6 Ser Chl (1) Per	455.9 S ₁ = 35' to LCA			455.6 Ser Chl (1) Per (lower 20m)
460				455.3 Va. ad. Ps (12) 455.6 Va. Sr. G. (12)	455.3 S ₁ = 10' to LCA 455.6 S ₁ = 5' to LCA	Co + Sil (2) (12 Ps)		
					462.0 S ₁ = 40' to LCA		462.0 S ₁ / Co / Py / Bk	
464				462.4 dis. Va. Ps (S2)	462.4 S ₁ = 35' to LCA S ₁ = 25' to LCA	464.2	462.4 S ₁ / Py	
			* 465.8m Black Shale geochronology sample (collected by MM)		465.2 S ₁ = 50' to LCA			
470	Black shale dk grey		Black shale, laminated in part. Calculation 465-468m 461-465m slight green colour ± ? chl on slickens features.		465.2 S ₁ = 45' to LCA	Co + Sil (1)		
					471.4 S ₁ = 45' to LCA	471.4		
475				471.2 Va. ad. Ps (12)	471.2 S ₁ = 35' to LCA	Co + Sil (2)		471.2 Good core orientation
					477.6 S ₁ = 50' to LCA S ₁ = 30' to LCA		477.6 S ₁ / Co / Py / Bk	S ₁ = 30' to LCA (orig) S ₁ = 35' to 100' (orig)
480							477.6 S ₁ / Co / Py / Bk 477.6 S ₁ / Co / Py / Bk 477.6 S ₁ / Co / Py / Bk	

645165

Hole ID	H3-2	Project	
Hole Type		Tenement No.	
Year	1999	Prospect	
Geologist	Amund	Date	17/1/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour							Comments
485		Black grey		Vn + diorite (1?)	482.0 to 25' to loc 484.0 Sp. 50' to loc		481/01/Gr/Pk/L	F	
490		Green black	487.2 489.0	487.2 diorite (0.5?) 487	486.6 to 55' to loc	Co sil (1.5?) (1)	487.1/0.01/50/Pu 488.0/0.01/50/Pu	487.7 Irregular (over 20m) 489.0 Irregular (over 20m)	F F
495		Shade grey		Vn + diorite (0.5?)	491.5 to 60' to loc				490.2 Core orient
500		Grey brown	496.1 496.6	496.1 Vn + diorite (5?)		Co sil (1.5?) 496.1 (5?)	495.5/0.5/60/Pu/L	496.1 granular (over 20m) 496.6 granular (over 20m)	F F
505		White grey		Vn B (5?) 501.1 Vn B (2.2)	500.0 501.0 Sp. 50' to loc 501.6 Sp. 60' to loc	Co sil (1?) 501.5 Co sil ± B (1)	500.4/0.2/75/Pu		500.2 501.0 501.6 502.0 502.6 503.0 503.6 504.0 504.6 505.0 505.6 506.0 506.6 507.0 507.6 508.0 508.6 509.0 509.6 510.0 510.6 511.0 511.6 512.0 512.6 513.0 513.6 514.0 514.6 515.0 515.6 516.0 516.6 517.0 517.6 518.0 518.6 519.0 519.6 520.0 520.6 521.0 521.6 522.0 522.6 523.0 523.6 524.0 524.6 525.0 525.6 526.0 526.6 527.0 527.6 528.0 528.6 529.0 529.6 530.0 530.6 531.0 531.6 532.0 532.6 533.0 533.6 534.0 534.6 535.0 535.6 536.0 536.6 537.0 537.6 538.0 538.6 539.0 539.6 540.0 540.6 541.0 541.6 542.0 542.6 543.0 543.6 544.0 544.6 545.0 545.6 546.0 546.6 547.0 547.6 548.0 548.6 549.0 549.6 550.0 550.6 551.0 551.6 552.0 552.6 553.0 553.6 554.0 554.6 555.0 555.6 556.0 556.6 557.0 557.6 558.0 558.6 559.0 559.6 560.0 560.6 561.0 561.6 562.0 562.6 563.0 563.6 564.0 564.6 565.0 565.6 566.0 566.6 567.0 567.6 568.0 568.6 569.0 569.6 570.0 570.6 571.0 571.6 572.0 572.6 573.0 573.6 574.0 574.6 575.0 575.6 576.0 576.6 577.0 577.6 578.0 578.6 579.0 579.6 580.0 580.6 581.0 581.6 582.0 582.6 583.0 583.6 584.0 584.6 585.0 585.6 586.0 586.6 587.0 587.6 588.0 588.6 589.0 589.6 590.0 590.6 591.0 591.6 592.0 592.6 593.0 593.6 594.0 594.6 595.0 595.6 596.0 596.6 597.0 597.6 598.0 598.6 599.0 599.6 600.0 600.6 601.0 601.6 602.0 602.6 603.0 603.6 604.0 604.6 605.0 605.6 606.0 606.6 607.0 607.6 608.0 608.6 609.0 609.6 610.0 610.6 611.0 611.6 612.0 612.6 613.0 613.6 614.0 614.6 615.0 615.6 616.0 616.6 617.0 617.6 618.0 618.6 619.0 619.6 620.0 620.6 621.0 621.6 622.0 622.6 623.0 623.6 624.0 624.6 625.0 625.6 626.0 626.6 627.0 627.6 628.0 628.6 629.0 629.6 630.0 630.6 631.0 631.6 632.0 632.6 633.0 633.6 634.0 634.6 635.0 635.6 636.0 636.6 637.0 637.6 638.0 638.6 639.0 639.6 640.0 640.6 641.0 641.6 642.0 642.6 643.0 643.6 644.0 644.6 645.0 645.6 646.0 646.6 647.0 647.6 648.0 648.6 649.0 649.6 650.0 650.6 651.0 651.6 652.0 652.6 653.0 653.6 654.0 654.6 655.0 655.6 656.0 656.6 657.0 657.6 658.0 658.6 659.0 659.6 660.0 660.6 661.0 661.6 662.0 662.6 663.0 663.6 664.0 664.6 665.0 665.6 666.0 666.6 667.0 667.6 668.0 668.6 669.0 669.6 670.0 670.6 671.0 671.6 672.0 672.6 673.0 673.6 674.0 674.6 675.0 675.6 676.0 676.6 677.0 677.6 678.0 678.6 679.0 679.6 680.0 680.6 681.0 681.6 682.0 682.6 683.0 683.6 684.0 684.6 685.0 685.6 686.0 686.6 687.0 687.6 688.0 688.6 689.0 689.6 690.0 690.6 691.0 691.6 692.0 692.6 693.0 693.6 694.0 694.6 695.0 695.6 696.0 696.6 697.0 697.6 698.0 698.6 699.0 699.6 700.0 700.6 701.0 701.6 702.0 702.6 703.0 703.6 704.0 704.6 705.0 705.6 706.0 706.6 707.0 707.6 708.0 708.6 709.0 709.6 710.0 710.6 711.0 711.6 712.0 712.6 713.0 713.6 714.0 714.6 715.0 715.6 716.0 716.6 717.0 717.6 718.0 718.6 719.0 719.6 720.0 720.6 721.0 721.6 722.0 722.6 723.0 723.6 724.0 724.6 725.0 725.6 726.0 726.6 727.0 727.6 728.0 728.6 729.0 729.6 730.0 730.6 731.0 731.6 732.0 732.6 733.0 733.6 734.0 734.6 735.0 735.6 736.0 736.6 737.0 737.6 738.0 738.6 739.0 739.6 740.0 740.6 741.0 741.6 742.0 742.6 743.0 743.6 744.0 744.6 745.0 745.6 746.0 746.6 747.0 747.6 748.0 748.6 749.0 749.6 750.0 750.6 751.0 751.6 752.0 752.6 753.0 753.6 754.0 754.6 755.0 755.6 756.0 756.6 757.0 757.6 758.0 758.6 759.0 759.6 760.0 760.6 761.0 761.6 762.0 762.6 763.0 763.6 764.0 764.6 765.0 765.6 766.0 766.6 767.0 767.6 768.0 768.6 769.0 769.6 770.0 770.6 771.0 771.6 772.0 772.6 773.0 773.6 774.0 774.6 775.0 775.6 776.0 776.6 777.0 777.6 778.0 778.6 779.0 779.6 780.0 780.6 781.0 781.6 782.0 782.6 783.0 783.6 784.0 784.6 785.0 785.6 786.0 786.6 787.0 787.6 788.0 788.6 789.0 789.6 790.0 790.6 791.0 791.6 792.0 792.6 793.0 793.6 794.0 794.6 795.0 795.6 796.0 796.6 797.0 797.6 798.0 798.6 799.0 799.6 800.0 800.6 801.0 801.6 802.0 802.6 803.0 803.6 804.0 804.6 805.0 805.6 806.0 806.6 807.0 807.6 808.0 808.6 809.0 809.6 810.0 810.6 811.0 811.6 812.0 812.6 813.0 813.6 814.0 814.6 815.0 815.6 816.0 816.6 817.0 817.6 818.0 818.6 819.0 819.6 820.0 820.6 821.0 821.6 822.0 822.6 823.0 823.6 824.0 824.6 825.0 825.6 826.0 826.6 827.0 827.6 828.0 828.6 829.0 829.6 830.0 830.6 831.0 831.6 832.0 832.6 833.0 833.6 834.0 834.6 835.0 835.6 836.0 836.6 837.0 837.6 838.0 838.6 839.0 839.6 840.0 840.6 841.0 841.6 842.0 842.6 843.0 843.6 844.0 844.6 845.0 845.6 846.0 846.6 847.0 847.6 848.0 848.6 849.0 849.6 850.0 850.6 851.0 851.6 852.0 852.6 853.0 853.6 854.0 854.6 855.0 855.6 856.0 856.6 857.0 857.6 858.0 858.6 859.0 859.6 860.0 860.6 861.0 861.6 862.0 862.6 863.0 863.6 864.0 864.6 865.0 865.6 866.0 866.6 867.0 867.6 868.0 868.6 869.0 869.6 870.0 870.6 871.0 871.6 872.0 872.6 873.0 873.6 874.0 874.6 875.0 875.6 876.0 876.6 877.0 877.6 878.0 878.6 879.0 879.6 880.0 880.6 881.0 881.6 882.0 882.6 883.0 883.6 884.0 884.6 885.0 885.6 886.0 886.6 887.0 887.6 888.0 888.6 889.0 889.6 890.0 890.6 891.0 891.6 892.0 892.6 893.0 893.6 894.0 894.6 895.0 895.6 896.0 896.6 897.0 897.6 898.0 898.6 899.0 899.6 900.0 900.6 901.0 901.6 902.0 902.6 903.0 903.6 904.0 904.6 905.0 905.6 906.0 906.6 907.0 907.6 908.0 908.6 909.0 909.6 910.0 910.6 911.0 911.6 912.0 912.6 913.0 913.6 914.0 914.6 915.0 915.6 916.0 916.6 917.0 917.6 918.0 918.6 919.0 919.6 920.0 920.6 921.0 921.6 922.0 922.6 923.0 923.6 924.0 924.6 925.0 925.6 926.0 926.6 927.0 927.6 928.0 928.6 929.0 929.6 930.0 930.6 931.0 931.6 932.0 932.6 933.0 933.6 934.0 934.6 935.0 935.6 936.0 936.6 937.0 937.6 938.0 938.6 939.0 939.6 940.0 940.6 941.0 941.6 942.0 942.6 943.0 943.6 944.0 944.6 945.0 945.6 946.0 946.6 947.0 947.6 948.0 948.6 949.0 949.6 950.0 950.6 951.0 951.6 952.0 952.6 953.0 953.6 954.0 954.6 955.0 955.6 956.0 956.6 957.0 957.6 958.0 958.6 959.0 959.6 960.0 960.6 961.0 961.6 962.0 962.6 963.0 963.6 964.0 964.6 965.0 965.6 966.0 966.6 967.0 967.6 968.0 968.6 969.0 969.6 970.0 970.6 971.0 971.6 972.0 972.6 973.0 973.6 974.0 974.6 975.0 975.6 976.0 976.6 977.0 977.6 978.0 978.6 979.0 979.6 980.0 980.6 981.0 981.6 982.0 982.6 983.0 983.6 984.0 984.6 985.0 985.6 986.0 986.6 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Hole ID	M-3	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	A.M.W.	Date	20/4/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour							
				Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
					Va Pg (12)				507.2 Core orientation - Cont see
				507.1 Va Pg + Qtz (11)	507.1 508.0 S. = 50° to 60°	507.1 Coastal ± Pn (1)	507.1 507.5/10.2/10.1/10.1/10.1		
510						Coastal ± Pn (1)			
					511.5 S. = 30° to 40°				
						Coastal (3)	511.5 512.1/10.4/10.6/10.4/10.6		
518									
	Dark grey				Va talcs + Epidiorite Pg (22)	518.0 S. = 40° to 60°			
			Black shales, well laminated. at 506m thin (1.5cm) light grey carbonate beds appear scattered down-hole below 521m beds thin-bedded appear. Bedding somewhat well developed but some zones of disoriented bedding, not suitable from 508-511m.			Coastal ± Pn (2)			518.0 Core orient Cont see
520					520.0 S. = 50° to 60°				
					521.5 S. = 55° to 60°				
					524.5 S. = 60° to 60° S. = 25° to 60°				
525									
					527.0 S. = 55° to 60°				527.9 Core orient S. = 60° to 100° mag 926h I. = 25° to 28° mag 926f
530									

645167

Hole_ID	M38	Project	
Hole_Type		Tenement_No.	
Year		Prospect	
Geologist	[Signature]	Date	20/1/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour							
535					531-0 So = 50' to 60'	531 + Co ± Py (2)			
					534-0 So = 60' to 65'				
					536-0 So = 60' to 65'				
					539-0 So = 60' to 65'	Co ± Sl (1)	538-0 / 01/65/66/67/68/69		539-2 Core orient. So = 30' to 60'
540				Va + Silv + Fe-magnetite Py (L.R.)	539-1 So = 60' to 65'				
					541-0 So = 60' to 65'				
					541-1				
545	4000 Grs								546-2 Core orient. Cont use
					542-0 So = 65' to 65'				
					542-1 So = 60' to 65'	Co ± Sl ± Py (2)			547-2 Core orient. Cont use
					547-1				
550					547-2 So = 70' to 65'				
					547-3				
					547-4				
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645168

Hole ID	M58	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	A.M.S.	Date	4/8/99

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log	
	Code	Colour								
560		Black S/S	Black shale as described above; Lower S) disturbed bedding to 560-560.1 and 562-562.0		Vanadinite Ps (31) Van Sp (4)	558.0 to 558.4 LCA			558.1 558.2 559.0	
565		Black, S/S, Green	Black shale (poorly laminated) interbedded with thin (<2cm) beds of calcareous mudstone (?Limestone) Calc. mudstone beds are irregular, slumped out must be due to tectonics. Also present are calcareous 'balls'. Not mineralisation in regular 'limestone' beds. Mineralisation also in carbonate matrix zones of hydrofractures & angular shud 'clasts'		Vanadinite Ps (32) Van Sp (32) Van Sp (0.51)	560.0 to 70' to LCA	Co + Sil ± sulphide (2)		561.9 Abright compaction	561.2 Core orient unit use.
570		Black	Not mineralisation in regular 'limestone' beds. Mineralisation also in carbonate matrix zones of hydrofractures & angular shud 'clasts'	567.0	Vanadinite Ps (32) Van Sp (12) Van B (12)	565.4 to 55' to LCA				Carbonate beds appear to loop around some nodules (S.S. matrix mineralised)
570		Black	Black shale geochemistry sample (collected by Marcus Hope) Poorly laminated black shale with fine (calc.) carbonate spots; shale is calcareous; rare dk grey nodules (0.5cm dia.)	Co spots in shale (1)	Van Ps (22) Van Sp (0.51)	566.6 to 65' to LCA 570.0 to 65' to LCA			568.1 gradational (over 0.5m)	
575		Green, black	570.9 Noddy (0.5cm dia.) 571.4 strongly altered Volcaniclastic S.S. & shale clasts.	Chl Co (2)	Sp (32) Ps (32)				570.9 Abright irregular 571.4 irregular	
575		Black	Modestly laminated black shale with thin Volcaniclastic S.S. bed (574.5-574.6m); rare grey nodules and one thin (20cm) calcareous mudstone bed (0.574m)	Co spots in shale (1)	Sp (0.51) Ps (32) Sp (12) Ps (22)	573.0 to 50' to LCA	Co + Sil ± sulphide (3) 575.7		574.5 Abright 574.6 Abright	574.7 Core orient unit use.
580		Grey green black	575.6 Interbedded black shale, calcareous mudstone and ?Volcaniclastic siltstone. ± rare grey nodule and zone of hydrofract. (Co matrix)	Co S.S. (2)	Ps (22) Sp (0.51)	574.8 to 45' to LCA		575.0/0.01/20' sh	575.6 gradational (over 0.5m)	
580		Black, Grey	576.9 Modestly laminated black shale & rare grey nodules to 0.5m dia.		Ps (22) Sp (0.51) Ps (32) Sp (12)	576.9 577.1 to 40' to LCA	Co + Sil ± Ps (2) 581		578.3 gradational (over 0.5m)	

645169

Hole_ID	P587	Project	
Hole_Type		Tenement_No.	
Year		Prospect	
Geologist	AWA	Date	23/4/99

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
610									
615									
620			Quartz-veinlet-carbonates (see above) Carbonate alt. on massive (?) sp. and fracture ill sp.	Sil (2) Ser (2) + other sil Chl (2) + other mica Co (variable 1-2)	dis. Mn Co (hr)		Py + sil = chl (2) (see flow chart? + 3) to loc.		
625							(see flow chart? + 3) to loc.		
630							(see flow chart? + 3) to loc.		

645171

Hole ID	15-8	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	Amor	Date	26/9/77

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
635							Co sil & chl (2)		
640							Co sil & chl (1)		
645		Red Green	Quartz-feldspar porphyry (see above)	Sil (1) Ser (1) with Pd. Chl (1) other metals					
650		645 Green 645			Vn Pg (4)		Co sil & chl (2)		
655		655 Red 655		Sil (2) Chl (2)	Vn Pg (1)		Co sil & chl (3)		
657		655 Red 655		Sil (2) Ser (2)		657a Ser 50% to 60% Ca.			657b Porphyry (over 0.5m)
658		Green Grey	Volcaniclastic sandstone (i.e. shaly, av. ber. w/ Pd?) interbedded with thick-grey shale and minor volcaniclastic siltstone No obvious streaks; Contacts between beds are short bit. irregular.	Vn sil: chl Ser (3)	Vn Pg (2) Vn sil sp (0.5) Vn Pg (1) & (1) Pg (3) & (3) Pg (1) & (1)	658a Ser 50% to 60% Ca. 658b Ser 50% to 60% Ca.	Co sil (2)		

Co sil
Shal cut

CAR 1770

Hole_ID	4517	Project	
Hole_Type		Tenement No.	
Year		Prospect	
Geologist	AMN	Date	20/4/99

Depth	Lithology		Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
	658	Green	Volcaniclastic sandstone + shale in place	Alt: ch(2) (3)	Ps (D) sil(1)	658 L 2 = 45 to 65m	Co sil (1)		
660	659	Green	interbedded with volcaniclastic (alter. ch spots) and thin volcaniclastic sandstone with (graded - facies uphole)	sil(2) ch(2) Sor (1)	Ps (1) Sp (1)	659 L 3 = 55 to 65m	Co sil (1)		
			basal sandstone unit contains coarse lenticles of pumice to 1 cm dia. lenticles may be strongly kinked altered	661	Ps (1) Sp (0.5) in	660 S 2 = 55 to 65m	Co sil (1)		
665				663	Ps (1) ch(2) k-h-hem (1)	663 S 2 = 55 to 65m	Co sil (2)		
	654	Green-Pink	Volcaniclastic sandstone, massive, unconsolidated. clasts of pink glass + chloritic pumice. Some narrow zones in interbeds.	654	Ps (3) sil (1)	654 S 2 = 55 to 65m	Co sil (1)		
670				670	ch(1) sil (1) k-h-hem (1) (2) clasts.	670 S 2 = 55 to 65m	Co sil (2)		
	673			673	ch(2) sil (1) k-h-hem (1)	673 S 2 = 55 to 65m	Co sil (2)		
675		Green		675	ch(2) with Po ch(2) sil (1)	675 S 2 = 55 to 65m	Co sil (2)		
	677			677	Ps (1) Po (1)	677 S 2 = 55 to 65m	Co sil (2)		
	679	Green-Cream		679	ch(1) sil (2)	679 S 2 = 55 to 65m	Co + sil (1)		
690	690	Green-Cream		690	ch(1) sil (2)	690 S 2 = 55 to 65m	Co + sil (1)		
	696	Green-Cream		696	Ps (1) dia.	696 S 2 = 55 to 65m	Co + sil (1)		

645173

Hole ID	187	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	J.M.W.	Date	3/5/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log								
	Code	Colour								Comments						
		Green, Pink	Volcaniclastic sandstone as above	Up to 3 codes w. intensities (1-3) hem/kyf(s) sil(s) 6620 sil (1) chl (2)	Up to 3 codes with % Ps (tr) Sp (tr)											
685		Green Pink	Stratified volcaniclastic sandstone unit, clasts coated dominated by feldspar & feldspar clasts, except for lower 600 clasts. SE-argillaceous, brown - cream calcareous-rich (? thin bedded) clasts are dominant. Feldspar is quartz-phyric.	hem/kyf + sil clasts (2) sil (1) chl (2)	Sp (tr) 6621 Ps (tr) 6622 Sp (tr) 6623 Sp (tr) 6624 Ps (tr) 6625	6620 So? = Co to Lea		6620 Abrupt. Conformable	6620 thin (s) on contact							
690		Green tan.	Feldspar-rich silicified volcaniclastic sandstone/ siltstone. rare pink-green feldspar thin, Feldspar is feldspar + quartz-phyric.	ser (s) & Ps. Sil (2)	ser + Ca Va (tr) Ps (tr)			6629 Broken								
695		Green Grey	Massive, unbedded shaly siliceous volcaniclastic sandstone. Not clear about protolith - could have been a lava even - some possible quartz-caps. chloritic domains around more siliceous domains	chl (1) sil (2-3)	6630 Vn (tr) 6631 Vn (tr) 6632 Vn (tr) 6633 Ps (tr) 6634 Ps (tr)	6620 So? = Co to Lea	6622 6623 6624 6625 6626 6627 6628 6629 6630 6631 6632 6633 6634 6635 6636 6637 6638 6639 6640 6641 6642 6643 6644 6645 6646 6647 6648 6649 6650 6651 6652 6653 6654 6655 6656 6657 6658 6659 6660 6661 6662 6663 6664 6665 6666 6667 6668 6669 6670 6671 6672 6673 6674 6675 6676 6677 6678 6679 6680 6681 6682 6683 6684 6685 6686 6687 6688 6689 6690 6691 6692 6693 6694 6695 6696 6697 6698 6699 6700 6701 6702 6703 6704 6705 6706 6707 6708 6709 6710 6711 6712 6713 6714 6715 6716 6717 6718 6719 6720 6721 6722 6723 6724 6725 6726 6727 6728 6729 6730 6731 6732 6733 6734 6735 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6750 6751 6752 6753 6754 6755 6756 6757 6758 6759 6760 6761 6762 6763 6764 6765 6766 6767 6768 6769 6770 6771 6772 6773 6774 6775 6776 6777 6778 6779 6780 6781 6782 6783 6784 6785 6786 6787 6788 6789 6790 6791 6792 6793 6794 6795 6796 6797 6798 6799 6800 6801 6802 6803 6804 6805 6806 6807 6808 6809 6810 6811 6812 6813 6814 6815 6816 6817 6818 6819 6820 6821 6822 6823 6824 6825 6826 6827 6828 6829 6830 6831 6832 6833 6834 6835 6836 6837 6838 6839 6840 6841 6842 6843 6844 6845 6846 6847 6848 6849 6850 6851 6852 6853 6854 6855 6856 6857 6858 6859 6860 6861 6862 6863 6864 6865 6866 6867 6868 6869 6870 6871 6872 6873 6874 6875 6876 6877 6878 6879 6880 6881 6882 6883 6884 6885 6886 6887 6888 6889 6890 6891 6892 6893 6894 6895 6896 6897 6898 6899 6900 6901 6902 6903 6904 6905 6906 6907 6908 6909 6910 6911 6912 6913 6914 6915 6916 6917 6918 6919 6920 6921 6922 6923 6924 6925 6926 6927 6928 6929 6930 6931 6932 6933 6934 6935 6936 6937 6938 6939 6940 6941 6942 6943 6944 6945 6946 6947 6948 6949 6950 6951 6952 6953 6954 6955 6956 6957 6958 6959 6960 6961 6962 6963 6964 6965 6966 6967 6968 6969 6970 6971 6972 6973 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7174 7175 7176 7177 7178 7179 7180 7181 7182 7183 7184 7185 7186 7187 7188 7189 7190 7191 7192 7193 7194 7195 7196 7197 7198 7199 7200 7201 7202 7203 7204 7205 7206 7207 7208 7209 7210 7211 7212 7213 7214 7215 7216 7217 7218 7219 7220 7221 7222 7223 7224 7225 7226 7227 7228 7229 7230 7231 7232 7233 7234 7235 7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250 7251 7252 7253 7254 7255 7256 7257 7258 7259 7260 7261 7262 7263 7264 7265 7266 7267 7268 7269 7270 7271 7272 7273 7274 7275 7276 7277 7278 7279 7280 7281 7282 7283 7284 7285 7286 7287 7288 7289 7290 7291 7292 7293 7294 7295 7296 7297 7298 7299 7300 7301 7302 7303 7304 7305 7306 7307 7308 7309 7310 7311 7312 7313 7314 7315 7316 7317 7318 7319 7320 7321 7322 7323 7324 7325 7326 7327 7328 7329 7330 7331 7332 7333 7334 7335 7336 7337 7338 7339 7340 7341 7342 7343 7344 7345 7346 7347 7348 7349 7350 7351 7352 7353 7354 7355 7356 7357 7358 7359 7360 7361 7362 7363 7364 7365 7366 7367 7368 7369 7370 7371 7372 7373 7374 7375 7376 7377 7378 7379 7380 7381 7382 7383 7384 7385 7386 7387 7388 7389 7390 7391 7392 7393 7394 7395 7396 7397 7398 7399 7400 7401 7402 7403 7404 7405 7406 7407 7408 7409 7410 7411 7412 7413 7414 7415 7416 7417 7418 7419 7420 7421 7422 7423 7424 7425 7426 7427 7428 7429 7430 7431 7432 7433 7434 7435 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448 7449 7450 7451 7452 7453 7454 7455 7456 7457 7458 7459 7460 7461 7462 7463 7464 7465 7466 7467 7468 7469 7470 7471 7472 7473 7474 7475 7476 7477 7478 7479 7480 7481 7482 7483 7484 7485 7486 7487 7488 7489 7490 7491 7492 7493 7494 7495 7496 7497 7498 7499 7500 7501 7502 7503 7504 7505 7506 7507 7508 7509 7510 7511 7512 7513 7514 7515 7516 7517 7518 7519 7520 7521 7522 7523 7524 7525 7526 7527 7528 7529 7530 7531 7532 7533 7534 7535 7536 7537 7538 7539 7540 7541 7542 7543 7544 7545 7546 7547 7548 7549 7550 7551 7552 7553 7554 7555 7556 7557 7558 7559 7560 7561 7562 7563 7564 7565 7566 7567 7568 7569 7570 7571 7572 7573 7574 7575 7576 7577 7578 7579 7580 7581 7582 7583 7584 7585 7586 7587 7588 7589 7590 7591 7592 7593 7594 7595 7596 7597 7598 7599 7600 7601 7602 7603 7604 7605 7606 7607 7608 7609 7610 7611 7612 7613 7614 7615 7616 7617 7618 7619 7620 7621 7622 7623 7624 7625 7626 7627 7628 7629 7630 7631 7632 7633 7634 7635 7636 7637 7638 7639 7640 7641 7642 7643 7644 7645 7646 7647 7648 7649 7650 7651 7652 7653 7654 7655 7656 7657 7658 7659 7660 7661 7662 7663 7664 7665 7666 7667 7668 7669 7670 7671 7672 7673 7674 7675 7676 7677 7678 7679 7680 7681 7682 7683 7684 7685 7686 7687 7688 7689 7690 7691 7692 7693 7694 7695 7696 7697 7698 7699 7700 7701 7702 7703 7704 7705 7706 7707 7708 7709 7710 7711 7712 7713 7714 7715 7716 7717 7718 7719 7720 7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7737 7738 7739 7740 7741 7742 7743 7744 7745 7746 7747 7748 7749 7750 7751 7752 7753 7754 7755 7756 7757 7758 7759 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769 7770 7771 7772 7773 7774 7775 7776 7777 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787 7788 7789 7790 7791 7792 7793 7794 7795 7796 7797 7798 7799 7800 7801 7802 7803 7804 7805 7806 7807 7808 7809 7810 7811 7812 7813 7814 7815 7816 7817 7818 7819 7820 7821 7822 7823 7824 7825 7826 7827 7828 7829 7830 7831 7832 7833 7834 7835 7836 7837 7838 7839 7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7850 7851 7852 7853 7854 7855 7856 7857 7858 7859 7860 7861 7862 7863 7864 7865 7866 7867 7868 7869 7870 7871 7872 7873 7874 7875 7876 7877 7878 7879 7880 7881 7882 7883 7884 7885 7886 7887 7888 7889 7890 7891 7892 7893 7894 7895 7896 7897 7898 7899 7900 7901 7902 7903 7904 7905 7906 7907 7908 7909 7910 7911 7912 7913 7914 7915 7916 7917 7918 7919 7920 7921 7922 7923 7924 7925 7926 7927 7928 7929 7930 7931 7932 7933 7934 7935 7936 7937 7938 7939 7940 7941 7942 7943 7944 7945 7946 7947 7948 7949 7950 7951 7952 7953 7954 7955 7956 7957 7958 7959 7960 7961 7962 7963 7964 7965 7966 7967 7968 7969 7970 7971 7972 7973 7974 7975 7976 7977 7978 7979 7980 7981 7982 7983 7984 7985 7986 7987 7988 7989 7990 7991 7992 7993 7994 7995 7996 7997 7998 7999 8000									
700		Blue-green Grey	with volcaniclastic, poorly laminated. rare thin (CO3-c) chloritic sandstone grade interbeds. fine banded carbonated 'cherty' fracture	chl ser sil (1-2)	6650 6651 6652 6653 6654 6655 6656 6657 6658 6659 6660 6661 6662 6663 6664 6665 6666 6667 6668 6669 6670 6671 6672 6673 6674 6675 6676 6677 6678 6679 6680 6681 6682 6683 6684 6685 6686 6687 6688 6689 6690 6691 6692 6693 6694 6695 6696 6697 6698 6699 6700 6701 6702 6703 6704 6705 6706 6707 6708 6709 6710 6711 6712 6713 6714 6715 6716 6717 6718 6719 6720 6721 6722 6723 6724 6725 6726 6727 6728 6729 6730 6731 6732 6733 6734 6735 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6750 6751 6752 6753 6754 6755 6756 6757 6758 6759 6760 6761 6762 6763 6764 6765 6766 6767 6768 6769 6770 6771 6772 6773 6774 6775 6776 6777 6778 6779 6780 6781 6782 6783 6784 6785 6786 6787 6788 6789 6790 6791 6792 6793 6794 6795 6796 6797 6798 6799 6800 6801 6802 6803 6804 6805 6806 6807 6808 6809 6810 6811 6812 6813 6814 6815 6816 6817 6818 6819 6820 6821 6822 6823 6824 6825 6826 6827 6828 6829 6830 6831 6832 6833 6834 6835 6836 6837 6838 6839 6840 6841 6842 6843 6844 6845 6846 6847 6848 6849 6850 6851 6852 6853 6854 6855 6856 6857 6858 6859 6860 6861 6862 6863 6864 6865 6866 6867 6868 6869 6870 6871 6872 6873 6874 6875 6876 6877 6878 6879 6880 6881 6882 6883 6884 6885 6886 6887 6888 6889 6890 6891 6892 6893 6894 6895 6896 6897 6898 6899 6900 6901 6902 6903 6904 6905 6906 6907 6908 6909 6910 6911 6912 6913 6914 6915 6916 6917 6918 6919 6920 6921 6922 6923 6924 6925 6926 6927 6928 6929 6930 6931 6932 6933 6934 6935 6936 6937 6938 6939 6940 6941 6942 6943 6944 6945 6946 6947 6948 6949 6950 6951 6952 6953 6954 6955 6956 6957 6958 6959 6960 6961 6962 6963 6964 6965 6966 6967 6968 6969 6970 6971 6972 6973 6974 6975 6976 6977 6978 6979 6980 6981 6982 6983 6984 6985 6986 6987 6988 6989 6990 6991 6992 6993 6994 6995 6996 6997 6998 6999 7000											
705																

645174

Hole ID	MS-2	Project	
Hole Type		Tenement No.	
Year	1997	Prospect	
Geologist	A.P.N.	Date	4/15/99

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log		
	Code	Colour									
735			* black shale geochemistry sample 5/10/99		P ₂ var. sh (12) S ₂ sh (0.5S) 734.2 P ₂ dr. sh (22) S ₂ sh (0.5S) 735.0 P ₂ dr. sh (22) S ₂ sh (2.8S) 736.5 P ₂ dr. sh (22) S ₂ sh (0.5S) 739.0	734.0 S ₂ 40' b.l.c.a. 735.0 S ₂ 40' b.l.c.a. 735.9 S ₂ 30' b.l.c.a. 737.4 S ₂ 20' b.l.c.a.					
740					P ₂ dr. sh (12) S ₂ sh (0.1S) 739.9 S ₂ 10' b.l.c.a.						
745	grey shale		variably laminated grey-shale, ± minor thin carb. volcanoclastic shale to siltstone	S ₁ (1) S ₁ sh. Chl (2) S ₁ sh.	P ₂ dr. sh (0.5S) S ₂ sh (1S) 740.0 P ₂ (0.5S) S ₂ sh (1S) (0.5S) sh (1S) 742.7	741.0 S ₂ 10' b.l.c.a. 742.0 S ₂ 10' b.l.c.a.	Co + sil (1)	740.2/0.2/1/8k 741.0/0.1/40/R 742.0/0.1/1/8k			740.2 Core Orient: 740.2 S ₂ 50' 70' to top mus 741.0 S ₂ 10' 80' to top mus
750					P ₂ dr. sh (2.2) S ₂ sh (0.1S) 746.4 S ₂ 10' b.l.c.a. 749.0 S ₂ 10' b.l.c.a.			746.4/0.1/40/R 746.4/0.1/1/8k 749.0/0.1/40/BL/P 749.0/0.1/1/8k			746.2 Core Orient: No record.
755					S ₁ (2) P ₂ (2) 750.0 P ₂ dr. sh (3S) S ₂ sh (0.5S) 753.0 S ₂ 40' b.l.c.a.			750.0/0.1/40/R 750.0/0.1/1/8k			
760	Grey Green		754.0 well laminated and volcanoclastic; M. (<0.5cm) plat. siltstone interbeds.	S ₁ (2) Chl (2) S ₁ sh.	P ₂ (2) S ₂ sh (0.1S) 754.0	755.0 S ₂ 10' b.l.c.a.		754.0/0.1/40/R 754.0/0.1/1/8k			754.0 gradual over 10m

645176

Hole ID	M5-1	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	Amir	Date	5/6/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code	Colour							
760		grey-green		Py (1) Sp (0.5)	760-50 = 45° to lca	Co + sil (2)	760-0/0-01/55/10		
				Py va (0.2) Sp dia va (1.5)	760-50 to 45° to lca	49%			
			760-0	760-0		Co + sil (1)	760-0/0-01/40/10		760-0 fault Contact
765		grey black	< 1, chl (1)	Py dia va (5) Sp (tr) va	760-50 = 45° to lca	760-9			760-0 fault Contact
				760-3		Co + sil (1)			760-0 fault Contact
					760-50 = 45° to lca				
			sil, chl (2)	Py dia va (5) Sp va (0.1)	760-50 = 45° to lca				
			767-6	767-6					767-6 gradational (over 0.2m)
770		green grey	chl, ur (2) Sp (1)	Py dia va (1) Sp va (tr) Sp dia va (0.2%) Py (tr)	770-0 = 45° to lca	Co + sil (2) Co + sil (2)			
				Sp va (tr) Sp va (0.5%) 770-9		770-9			
				Sp dia (2) Py dia va (tr)	770-50 = 50° to lca				
			772-2	772-2		Co + sil (2)	772-0/0-01/55/10		772-2 fault
							772-0/0-1/7/10		
775		grey black	sil, chl (1)	Py dia va (2) Sp (0.5)					775-0 fault
		black white		Sp dia va (1.5)	775-0 = 60° to lca	775-2	775-0/0-01/55/10		775-0 fault
				Py dia va (1.5) Sp dia va (0.2%) 770-0	770-50 = 55° to lca	771-4			
		grey black					770-0/0-01/55/10		770-0 gradational (over 0.4m)
					772-4 = 55° to lca				
		grey green	chl, ur (2) sil (1)	Py dia va (5) Sp dia va (0.18)	779-1 = 65° to lca	Co + sil (1)			
				Py dia va (1.5) Sp dia va (1.2)					
780									

045177

Hole ID	M-7	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	AN-N	Date	6/5/99

Depth	Lithology		Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour						
			Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
			780.5 781.7	<p>Sr (30-40%) (30%) SP (30-40%) (30%) An (30%) (30%) SP (30%) (30%)</p> <p>Ps (10%) (10%) Sr (10%) (10%) An (10%) (10%)</p>	<p>780.0 Sr (30-40%) 780.9 Sr (30-40%)</p> <p>780.7 Sr (30-40%)</p>	<p>Co + sil (6)</p> <p>780.4</p>		
785		grey, green	alt. volcaniclastic interbedded w/ minor shales and volcaniclastic siltstone	<p>Chl (20%) Sil (10%)</p>	<p>780.7 Sr (30-40%)</p>	<p>Co + sil (6)</p> <p>± sphalerite (3)</p>		
			637				780.1/0.8/70/66	
			780.0	<p>Ser (5) sil chl (10)</p>	780.0	780.0	780.7 galena (over 0.3m)	
790								
				<p>glaucophane: sil chl (20) some clasts: sil kfs/ann (5)</p>	<p>Ps (10-20%) (10%) An (10%) (10%)</p>	<p>Co + sil + chl ± kfs/ann (2)</p>		
795		Pink, green	<p>Volcaniclastic sandstone is ? has lot clasts to 10cm dia. looks like a breccia in fact. feldspar - pyritic only.</p> <p>(? top of eye) - after c.H. → looks more like breccia like !!</p>					
800			796.7 E.O.H.					
805								