PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

754085

HOLE No. SR1

LOCATION	EL 24/91
PROJECT	STERLING RIVER
PROSPECT	MAGNETIC ANOMALY 'C'
DESIGNED BY	J.G. PURVIS
LOGGED BY	J.G. PURVIS
RELOGGED	
COMMENCED	31·1·95
COMPLETED	7·2·95
DRILLED BY	A.T.E.
DRILL RIG	GOPHER

OBJECTIVE

TO TEST CAUSE OF MAGNETIC ANOMALY 'C', WITHIN STERLING VALLEY MAFIC VOLCANICS.

RESULT

HOLE INTERSECTED MAGNETIC BASALT 0 – 96m.

LOCATION/SURVEY DATA (AMG)

Grid	AMG		RL Collar m	361·1
Northing m	5373030·2		Bearing Collar	108°
Easting m	383676·6		Dip Collar	−60°
DH Survey Type	EASTMAN CAMERA		Length Hole m	96·0

Depth m	Bearing	Dip	Depth m	Bearing	Dip
49	104°	−59°			
96	104·5°	−60°			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m						Comments
								NIL – ALL BASEMETALS
								< 700 ppm.

SIGNIFICANT CORE LOSS

From m	To m	% Lost
0	20·8	25
30	33	47

POOR GROUND CONDITION ZONES

From m	To m	Condition
0	19	OXIDIZED, FRACTURED + BROKEN.
31·5	32·1	CLAYEY OXIDIZED ZONE
50	63	FRACTURED, WITH OXIDIZED ZONES

HOLE SIZE

Size	Depth m
BQ	96

HOLE CONDITIONS AFTER COMPLETION

Collar	STEEL CAP ON NQ CASING
Steel Casing	NQ TO 4·5m.
PVC Casing	
Ground Water	
Wedge	
Drill Pad	

PASMINCO EXPLORATION

PROJECT: STERLING RIVER

DIAMOND DRILL CORE ASSAY DATA

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HOLE No. SR1

SAMPLE						ASSAYS (ppm unless specified)																						COMMENTS
Number	Type	From m	To m	Interval m	Recovered m	Cu / Pb	Zn / Ag	Au / As	Ba / Sn	W / Rb	Sr / Zr	V / Nb	Y	Al_2O_3 / SiO_2 %	TiO_2 / Fe_2O_3 %	MnO / CaO %	K_2O / MgO %	P_2O_5 / SO_3 %	Na_2O / LOI %	
39904	BQ	33·1	33·3	0·2	0·2	129 / 31	192 / <1	<·008 / 5	404 / 5	7 / 22	262 / 74	334 / <3	24	15·6 / 51·8	0·93 / 13·49	0·34 / 5·18	1·00 / 4·82	0·151 / 0·02	4·23 / 2·27	chlorite-epidote altered basalt
39905	SPLIT BQ	43·5	45·5	2·0		131 / 15	193 / <1	<·008 / 7	479 / 4	6										Basalt. Minor py, trace cp.
39906	" "	55·5	58·0	2·5		133 / 496	664 / 1	<·008 / 67	458 / 71	22										Chloritic basalt. 1% py, rare qn
39907	" "	59·0	60·0	1·0		52 / 92	201 / 1	0·088 / 151	184 / 72	23										Qtz-tourm fault bx c 3% py.
39908	BQ	75·7	75·95	0·25	0·25	244 / 18	224 / <1	<·008 / 9	358 / 4	14 / 52	266 / 74	361 / 4	22	15·2 / 49·8	0·92 / 14·23	0·38 / 5·29	1·27 / 4·92	0·143 / 0·20	4·32 / 3·00	Basalt.
39909	SPLIT BQ	65·0	67·0	2·0		287 / 25	149 / 1	<·008 / 7	207 / 4	<5										Basalt. Minor py + cp.
39910	" "	86·0	88·0	2·0		145 / <3	248 / <1	<·008 / 5	201 / 6	<5										" " " "
39911	" "	88·0	90·0	2·0		101 / <3	215 / <1	<·008 / 14	299 / 7	11										" " " "
39912	" "	94·5	96·0	1·5		108 / 3	229 / <1	0·010 / 16	204 / 4	17										Basalt. Minor py.
Laboratory	ANALABS 111310.60.10735 Analytical-Method					AAS / AAS	FA/AAS	XRF401	XRF401	XRF401	XRF401	XRF401	XRF408	XRF408	XRF408	XRF408	XRF408	XRF408		
Job-No	0276	Date	24·2·95	Detection-Limit		2 / 3	2 / 1	·008 / 0·5	10 / 3	5 / 5	5 / 5	5 / 3	3	0·05 / 0·05	0·01 / 0·01	0·01 / 0·01	0·01 / 0·01	0·005 / 0·01	0·05 / 0·01	

SAMPLE NUMBER: Tullah SR1 39908

SUMMARY DESCRIPTION:

This sample is an aphyric, texturally well-preserved basaltic dyke rock composed of a subophitic to intersertal-textured intergrowth of albitized plagioclase laths, smaller more equant to bladed former augite crystals, and abundant interstitial equant FeTi oxide grains. The augite is entirely replaced by fibrous green actinolite and minor epidote. Granular yellow epidote is an abundant secondary phase, occurring in albite, and in chlorite patches that are common through the rock. FeTi oxides show at least marginal alteration to leucoxene. Fine-grained epidote occurs along several fractures, and has apparently been grainsize-reduced by continuing deformation-related recrystallization on these microshears. The mineralogy, texture and wholerock composition are all absolutely typical of the Henty Dyke Swarm basalts, especially the high Ti/Zr (75) and aphyric nature of the evolved basalt.

Project: DIERUNG RIVER
Logged by: J.G. PURVIS
Date: 15·2·95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR 1

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mm, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
0	OX (2-3) chl (2) Fe/Mn stains and on fracts. Minor clay bands	↑ Moderately fractured + broken ↓ C 58° (weak)		BASALT Green. Fine - medium grained. Sub-ophitic texture. Massive, uniform, even-grained. Magnetic.	
8	OX (1-2, patchy). chl (2), incl veinlets of chl.				Several % fine dissem magnetite ↓
12	clayey seam	C 58° (weak)			
14	20mm qtz-chl vein +25mm broken qtz-chl vein ↓ Epi veinlets (1) Minor qtz veinlets	Ver 8·7m core loss →			
18	clayey seams				
20	OX (1) +25m qtz-chl vein → chl (2-3) epi (1) (as veinlets)	C 58° (weak)			
24	chl (2) epi (2, veinlets 58°) ox (1)				
28	many epi veinlets				
32	clayey OX band	0·5m core loss			
34	chl (2) epi (2) common vuggy qtz-chl veinlets (wt epi veinlets)	50mm qtz-chl vein C 70° (weak)			Trace dissem py.
36					
38	OX (1-2)	flow lineation 50°		contact 39·25m 50°	
40		contact 40·7m, 30°		ANDESITE DYKES Med gr, feld + ferromag phenos to 1·5mm.	Minor dissem py.
42	ivveg qtz-chl veins with Isil (1)			contact 56°, 41·2m BASALT Fine grained. Green, as above. Hard. Sub-ophitic texture. Magnetic.	Trace dissem py, rare dissem cp. ← malachite on fract. 1% py, trace cp.
44	co (3) chl (2) epi (1-2) calcite veinlets > epi veinlets	← 360mm zone of calcite-epi-py veining 65° →			
46					
48	chl (2), epi (1-2) Epidote in veinlets, + thin bands (± qtz) 55-65°	10mm vuggy qtz veins			Trace py
50					

15408?

Project : STERLING RIVER
Logged by: J.G. PURVIS
Date : 16·2·95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR1

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
50	chl (2), epi (2), ox (1)			BASALT as above	No py
52	Numerous vuggy fracts after co. Minor qtz-limonite veinlets				
54		mod fractured			
56	chl (3), ox (2) Many chl veinlets	c: 35°		← fi gr chloritic zones	1% dissem + veinlet py ← gn in calcite veinlet
58		c: 55° cleaved			1-2% py, dissem + 1mm veinlets
60	sil (3), chl (3), tourm (2) (tourmalinization of frags + matrix)	Quartz-annealed Fault Breccia 0.15m rubble (Fault?) (oxidised) mod broken		59.0m - contact 55° Minor frags of amygdaloidal basalt 60.0m - contact 35°	3% py, coarse gr dissem
62	chl (2-3) epi (2-3) co (1-2)	c: 50°		Basalt increasingly magnetic ↓	Minor dissem + veinlet py-cp, often associated with qtz-epidote veinlets or chl alt
64	Common irreg calcite veinlets. Abund epi qtz veinlets (pre-date co veinlets)				
66					
68	Much of veining sub // cleav.				fine dissem mag, increasing with depth
70	100mm qtz-chl vein				
72		c: 35°			
74					cp stringers
76					
78					
80				← Minor calcite amygdales	
82	epi (3) - abund veinlets + qtz, + bands of epi to 1400mm chl (2) sil (1) co (1-2) epi bands				Trace py-po, rare cp.
84				← calcite amygdales	
86	chl (3) - many veinlets epi (3) no co ox (1)				Minor dissem py-cp
88		b/c: 60° cleaved	87.7m 88.0m	chloritic-Mafic-Siltstone-Band FOLIATED + ALTERED BASALT Dark green, fine grained, strongly magnetic. Veined.	1% fi gr py
90	chl (3) epi (2) co (3) Abund veinlets sil (1) esp assoc with epi				Minor dissem + stringer py>cp
92		Weakly cleaved			Much fi gr mag conc in bands + patches
94					
96		c: 45° strong cleavage	EOH 96.0m		1% py, trace cp

25408