REDRILL OF SCS 1 -- 13371

DRILL CORE RECORD

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HOLE NO: SCS 2
STATE : TASMAN

PROJECT	SOCK CREEK SOUTH
DESIGNED BY	J.G. Purvis
LOGGED BY	J.G. Purvis
COMMENCED	27-4-88
COMPLETED	4-5-88

PURPOSE

TO TEST UTEM/SIROTEM ANOMALY CENTERED 50m BENEATH 5200N/2315E.

LOG SUMMARY

QUARTZ-FELDSPAR PORPHYRY AND BASALT WERE INTERSECTED IN TH UPPER PART OF THE HOLE, WHICH THEN PASSED THROUGH WEAKLY-MINERALISED SEDIMENTS AND ENDED IN DACITIC LAVAS AND BRECCI

GENERAL COMMENTS

THE EM ANOMALY PLOTS WITHIN THE BASALT UNIT CLOSE TO CONTACT WITH WEAKLY-SULPHIDIC SEDIMENTS.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Cu	Pb	Zn	Ag	Au	As	Ba	COMMENTS
		BEST INTERSECTIONS:							
83.75	85.0	20	1120	4950	1.1	0.01	28	1280	BLACK TUFF-SHALE WITH DISSEMINATED SULPHIDE
122.0	123.5	12	105	3150	0.2	0.03	28	290	BLACK SILTSTONE WITH 2-3% SULPHIDES.

LOCATION

NORTHING	5200m
EASTING	2282m
R.L.	
GRID	LOCAL
LENGTH	148.5m

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HW	6m
HQ	78.3m
NQ	148.5m

SIGNIFICANT CORE LOSS INTERVALS

From	To	% Loss

POOR GROUND CONDITION ZONES

From	To	Condition
0	75.6m	GENERALLY BADLY BROKEN WITH CLAYEY ZONES.

HOLE CONDITIONS AFTER COMPLETION

50mm ID PLASTIC CASING FROM COLLAR TO BOTTOM OF HOLE.

3m STEEL STEM PIPE (HQ ROD) WITH CAP, PLACED IN TOP OF HOL

SURVEY DATA (Note: Bearing type must be same as Project Grid Type) = MAGNETIC.

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D Sin Dip	VERTICAL R.L.	HORIZONTAL D Cos Dip	HORIZONTAL Prog Total
collar	120°M	-58°30'							
30m	121°M	-59°30'							
61m	119°M	-60°							
91m	119°M	-60°							
125m	120°30'M	-60°							
145m	122°15'M	-60°							

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D Sin Dip	VERTICAL R.L.	HORIZONTAL D Cos Dip	HORIZONTAL Prog Total

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INTERVAL (m) from	INTERVAL (m) to	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No	From	To	Rec. %
	6m		NIL	TRICONED – NO CORE				
	14.7m	3.25	37	QUARTZ-FELDSPAR PORPHYRY Pale yellow to grey-green. Coarse grained. Qtz xyls to 7mm, felds to 3mm, in pale green sericitic matrix. Minor small hornblende xyls. Weakly sericitised Mod–strongly oxidised with clayey broken zones and much core loss. Limonite on fractures.				
·7	28.4m	11.8	86	QUARTZ-FELDSPAR CRYSTAL-LITHIC TUFF Pale red and yellow-brown. Strongly oxidised with clayey sections towards base. Down to 21.7m, a weak-mod sericitised and slightly schistose, fine grained xyl-lithic tuff, with angular sericitic tuffaceous clasts to 15mm, av <5mm, in sericitic matrix c qtz + feld xyls. Schistosity 55°/LCA @ 21m. Below 21.7m non-schistose coarser grained, with angular lithics to 30mm, av 5mm, in washed matrix of subrounded qtz & feld xyls – definitely epiclastic. Mod broken, badly below 25.5m, by fracts almost // LCA. Much Fe & Mn oxides on fractures.				
8.4	75.6m	40.65	86	BASALT LAVA Brown, soft, highly oxidised, clayey & broken to 48m. Below 48m green with abund brown Mn stains on fracts, partly oxidised & leached and very badly broken. Med gr. Massive. Porph xyls of pyroxene (?) to 2mm. Below 50m leached ovoid vesicles to 15mm, av 5-7mm, inc c depth – qtz abund in places. Weakly epidotised below 48m. Abund Mn ox and minor limonite on fracts throughout, also as veinlets ± qtz. Basal contact an irreg flow margin c finely-amygdaloidal basalt				

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ASSAY DATA (COMLABS – DESPATCH Nº 11184)

Interval From (m)	To	Recovery m	%	Description	Sample No	From	To (m)	Rec. %	Cu	Pb	Zn	Ag	Au	As	Ba
				frags in silic matrix.											
.6	79.9m	4.1	95	FINE LITHIC BRECCIA / SANDSTONE	7761	75.5	76.5	80	28	92	185	<0.1	0.04	38	1440
				Dark grey-green. Only sl broken.	7762	76.5	77.5	100	28	210	330	1.0	<.01	54	1120
				Abund f-gr v.lk lithics (mainly tuffs and cherts) av <5mm	7763	77.5	78.5	85	38	380	980	1.2	0.01	44	1200
				to 25mm, in matrix of sandy lithics, feld xyls and tuff-	7764	78.5	79.5	85	38	1040	2150	1.3	<.01	44	1400
				sediment. Clasts have been stretched by mod schistose											
				deformation, and some appear to have been soft and											
				not lithified when emplaced. Schistosity 55°/LCA.											
				Weakly sericitised.											
				Bedded: 65°/LCA @ 77m; 70°/LCA @ 79.2m;											
				1-3% po-py > sp-gn. Trace cp. Some in veinlets, esp the sp-gn.											
				Basal contact irreg.											
.9	89.55m	9.45	99	TUFF-SHALE	7765	79.5	81.0	100	16	680	1480	0.9	<.01	26	910
				Dark greenish-grey to black. F-gr. Gen unbroken.	7766	81.0	82.5	93	24	550	1100	1.1	0.01	26	1360
				Weakly carbonaceous. Sericitic.	7767	82.5	83.75	100	50	280	340	1.2	0.01	44	1060
				Bedded (70°/LCA @ 81.5m; 70°/LCA @ 83.75m). Some irreg	7768	83.75	85.0	100	20	1120	4950	1.1	0.01	28	1280
				bedding due to soft-sed deformation. At 83.2m graded bedding	7769	85.0	86.5	100	10	150	910	<0.1	0.01	30	980
				indicates facing up-hole.	7770	86.5	88.0	100	12	105	1380	<0.1	<.01	14	440
				Minor siltstone and sandstone interbeds.	7771	88.0	89.55	100	7	80	280	1.2	0.03	16	950
				Below 85.5m intervals of feld xyl ± lithic tuff (often silif)											
				and zone 86.75–88.5m of silif feld xyl-lithic breccia											
				similar to unit below.											
				79.9 – 83.75m: 1–3% py-sp > gn. Trace cp. Py mainly as											
				v.f-gr dissem. Sp commonly in carb veinlets sub// to LCA.											
				83.75 – 85m: 3–5% sp > py. Trace cp, gn + po. Sp dissem +											
				in carbonate-sericite veinlets at all angles.											
				85 – 89.55m: 1–2% sp-py.											
				Basal contact irreg bedding 55°/LCA.											
55	122.0m	32.15	99	DACITIC LAVA BRECCIA AND FLOW-BANDED DACITIC LAVA	7772	89.55	91.0	100	13	56	1060	<0.1	0.02	10	450
				Dark greenish-grey and pale red, c zones of creamy grey (lava).	7773	91.0	92.5	100	6	18	810	1.1	0.02	11	300
				Strongly silicified with patchy strong albitisation, sericitisation	7774	92.5	94.0	100	11	10	860	<0.1	<.01	14	195
				and chloritisation. Gen unbroken.											
				Breccia (silif + alb), comprising angular, irreg + often diffuse											

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Interval From (m)	Interval To	Recovery m	Recovery %	Description
				feld-phyric lava clasts av 10-20mm, rarely + 50mm,
				in siliceous matrix, extends to 99m where it grades into
				massive flow-banded dacite (sitz, the, ser).
				Lava contains euhedral white or pink felds av 2mm,
				and is flow banded. Clasts in breccia are identical.
				At 114.3m lava passes abruptly back into lava breccia
				with black shale matrix. Breaking inc common below 118m.
				Some minor shale matrix from 89.55 – 91.5m also.
				(Unit appears to be lava flow with autobrecciated margins).
				At 102.3m flow banding 55°/LCA.
				89.55 — 94m: 1% sp > py. Inc ē depth.
				94 — 114.3m: Trace dissem + fracture-filling py > sp.
				114.3 — 120m: 1-2% py > sp. Mainly in matrix of breccia.
				120 — 122m: 2% sp > py. Inc ē depth. In both matrix + clasts.
[illegible]	123.5m	1.5	100	SILTSTONE
				Dk grey to black. Unbedded.
				Gen massive and uniform, fairly hard + silic.
				Dk colour mostly chlorite with probably minor carbonaceous
				matter. Mod chloritised.
				Bedding 65°/LCA @ 122.5m.
				Basal 300mm contains some interbedded material of
				unit beneath.
				2-3% sp, minor py. Dissem + veinlets ± qz-carb.
				Basal contact abrupt – bedding @ 65°/LCA.
[illegible]5	133.85	10.35	100	ALTERED GLASSY VOLCANICLASTIC (HYALOCLASTITE?)
				Pale creamy green and orange.
				Densely packed angular, irreg + stretched clasts and
				shards of glass with characteristic fine wispy banding
				(pumice?) with lesser clasts of tuff and lava.
				Glass frags are highly sericitised and bleached, lava
				clasts silicified in places, esp 126.2 – 129.5m, and in
				zones to 1m thick below this. Lava clasts av <10mm,
				max 80mm, of dacite composition, have marked internal
				shattering suggestive of cold water quenching while hot.

ASSAY DATA

Sample No	From	To (m)	Rec. %	Cu	Pb	Zn	Ag	Au	As	Ba
7775	114.0	116.0	100	8	60	520	<0.1	0.02	13	400
7776	116.0	118.0	100	7	12	155	<0.1	<.01	15	240
7777	118.0	120.0	100	9	56	290	<0.1	<.01	18	155
7778	120.0	122.0	85	9	115	1720	<0.1	<.01	17	135
7779	122.0	123.5	100	12	105	3150	0.2	0.03	28	290
7780	123.5	125.0	100	18	88	330	0.7	0.03	84	790
7781	125.0	126.5	100	14	28	70	0.2	<.01	16	610
7782	126.5	128.0	100	10	18	64	<0.1	0.01	15	850
7783	128.0	129.5	100	12	20	80	0.1	0.01	14	660
7784	129.5	131.0	100	12	42	155	0.2	0.01	17	750
7785	131.0	132.5	100	14	14	40	0.1	0.01	15	660
7786	132.5	134.0	100	15	70	210	<0.1	0.01	13	670

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No	From	To	Rec. %
				Mod schistose deformation (40°/LCA @ 125.3m; 55°/LCA @ 128m).				
				Locally broken, esp above 126m and around fault @ 130.5m. Occ qz-chlor veins.				
				123.5 – 127m: 2-3% py - mainly replacing small clasts				
				127 – 133.35m: 1% py, dec c depth.				
				Gradual change at base.				
[illegible]85	143.5m	14.65	100	DACITE LAVA BRECCIA				
				Dk greenish-grey and orange. Unbroken.				
				Abund angular and irreg lava clasts (flow-banded, very glassy, sometimes feld-phyric) to 100mm, av 10-20 mm / clasts at all angles - no clear orientation.				
				Matrix comprises densely packed glassy clasts and shards, and small lava frags, as in unit above (pale lime green, highly sericitic), matrix becomes rich less abund with depth esp below 138m.				
				Lava clasts are altered > silic-ser. Some silic of matrix at depth.				
				Fairly strong deformation of matrix.				
				No sulphides!				
				END OF HOLE				

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DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				Mod schistose deformation (40°/LCA @ 125·3m; 55°/LCA @ 129m).
				Locally broken, esp above 126m and around fault @ 130·5m. Occ qz-chlor veins.
				123·5 — 127m: 1-3% py - mainly replacing small clasts
				127 — 133·85m: 1% py, dec c depth.
				Gradual change at base.
3·85	143·5m	14·65	100	DACITE LAVA BRECCIA
				Dk greenish-grey and orange. Unbroken.
				Abund angular and irreg lava clasts (flow-banded, very glassy, sometimes feld-phyric) to 100mm, av 10-20 mm. Clasts at all angles - no clear orientation.
				Matrix comprises densely packed glassy clasts and shards, and small lava frags, as in unit above (pale lime green, highly sericitic); matrix becomes much less abund with depth esp below 138m.
				Lava clasts are altered > silif-ser. Some silif of matrix at depth.
				Fairly strong deformation of matrix.
				No sulphides!
				END OF HOLE