

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP4	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5361675
PROSPECT		EASTING	376476
DESIGNED BY	M Vicary	RL	577
LOGGED BY	R Allen	INCLINATION	-60
COMMENCED	26-02-1997	AZIMUTH	090
FINISHED	24-04-1997	EOH	400.30

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 400m north of a possible growth fault. The hole was collared near the collar of WSP103.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-60	090	180	-53	098	303	-50.5	100
30	-60.2	093	210	-52.5	098	330	-50	104
72	-60	097	240	-51.2	101	360	-49	106
150	-54	095	270	-51	101	400	-47.5	107

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 104	Hole cased with PVC
NQ	104 - EOH	DHEM Survey performed

SUMMARY

Summary Log		
0	- 107	Greywacke (Cyg)
107	- 142	Black siltstone (Cyss)
142	- 148.7	Volcaniclastic sandstone & siltstone (Cym)
148.7	- 223.5	Quartz feldspar xtl rich graded massflow (Cyx)
223.5	- 241.2	Interbedded black siltstone & v/c sst (Cym/Cya/Cyss)
241.2	- 307.4	Graded dacitic massflow breccia with sulphide clasts (Cymfs)
307.4	- 344.05	Black siltstone (Cyss)
344.05	- 348.8	Fine to medium grained v/c sst (Cys?/Cya?)
348.8	- 400.3	Feldspar phyric pumice breccia (Ccv)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP4 (summary)

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP4

- Bedding
- └ Cleavage
- ▲ Foliation
- ~ Fault, Shear
- ⊞ Breccia
- ⊞ Broken core
- ▨ Disseminated
- Massive
- ▨ Pervasive
- ⚡ Narrow vein
- * Visible gold

SHEET 1 OF 2

- Bedding
- └ Cleavage
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- * Visible gold

SHEET 2 OF 2

PROJECT : WHITE SPUR
 PROSPECT :
 DATE :
 LOGGED BY : ROD ALLEN

PROJECT : WHITE SPUR
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SCALE 1:1000

HOLE DEPTH METER	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							VEIN	ROCK	ALTERATION
0-107						Interbedded greywacke and lithicwacke			
107-142						Black Siltstone			
142-148.7						Volcanoclastic sandstone + siltstone			
148.7-223.5						Quartz feldspar crystal rich graded massflow			

HOLE DEPTH METER	SAMPLE No	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							VEIN	ROCK	ALTERATION
223.5-241.2						Interbedded black siltstone and volcanoclastic sandstone			
241.2-307.6						Graded acidic massflow breccia with sulphide clasts			
307.6-344.05						Black Siltstone			
344.05-348.8						fine to medium grained volcanoclastic sandstone			
348.8-400.3						feldspar phytic pumice breccia			

7/10/03

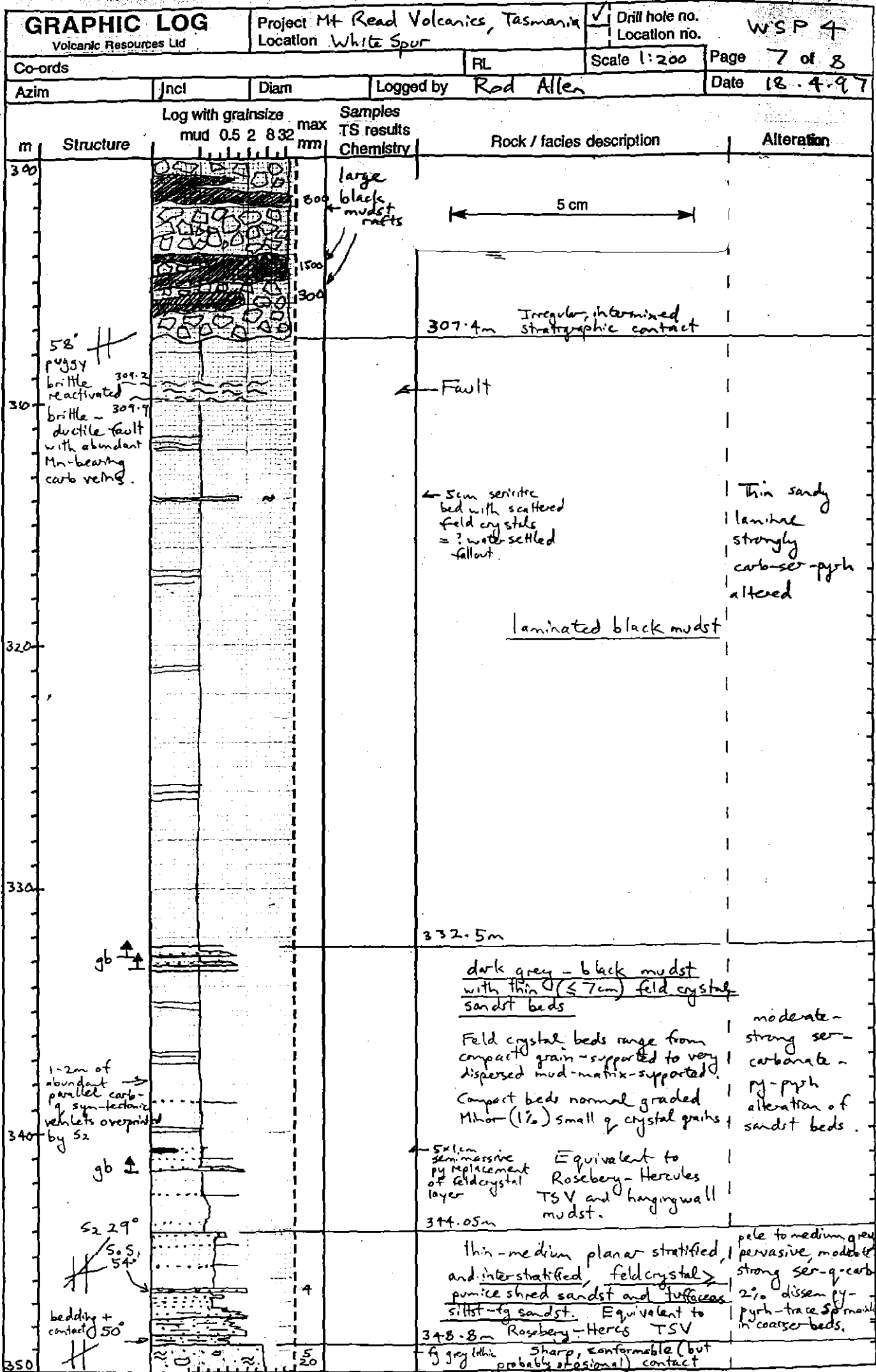
GRAPHIC LOG Volcanic Resources Ltd		Project Mt. Read Volcanics, Tasmania. Location White Spur		Drill hole no. Location no.	WSP 4 1 of 8	
Co-ords			RL	Scale 1:200	Page 1 of 8	
Azim	Incl	Diam	Logged by Rod Allen		Date 19.4.97	
m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description		Alteration
0				Start ~ 3.5m		
10	↑ gb			grey, feld > lithic-qtz sandst turbidites >> grey siltst		strong brown weathering
20	↑ gb			Sandstone beds average 1-1.5m thick Bed bases 1-2mm grain size		
30	↑			continued coarsening and thickening upward cycle		↑ grey weak ser-carb trace pyrh ↓
40	↑ gb			5 cm		
50	↑					

GRAPHIC LOG Volcanic Resources Ltd		Project Location Mt Read Volcanics, Tas. White Spur		Drill hole no. WSP 4	Location no.
Co-ords			RL	Scale 1:200	Page 2 of 8
Azim	Incl	Diam	Logged by Rod Allen		Date 19.4.97
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
50	↑			<p>5 cm</p> <p>average 2 sandst beds per metre</p> <p>slight fining-upward</p>	
60	↑				
70	gb So 67			<p>To top of drill hole this unit has superb coarsening and thickening up cycle = prograding sandst turbidite lobe</p>	
80	gb			<p>Medium bedded, grey siltst & grey f-cg sandst turbidites > pale grey lime-siltst (2-5cm) and black mudst.</p>	
90	gb			<p>Sandst feld ± lithic rich with 10-15% small black mud grains. Appears more reworked "grey wacke" type sandst than below 107m, but is still mica-poor and q-cry stal-bearing. Probably reworked felsic ± intermediate volcanic provenance</p>	
100	gb				

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania Location White Spur		Drill hole no. WSP 4 Location no.	Page 3 of 8
Co-ords			RL	Scale 1:200	Date 19.4.97
Azim	Incl	Diam	Logged by Rod Allen		
m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
100	↑ ↑ gb ↑			5 cm ↑ start of thickening - i; 107m coarsening up cycle: increasing sand/mud ratio	
110				115m ↑ less sandst beds	
120	gb ↑ ↑			Black and grey laminated mudstone with 5% 1-5cm (rarely up to 30cm) grey sandst turbidites	Sandst beds moderate ser-carb altered and have strong pyrh-py impregnation of coarse- bed bases
130	gb ↑ ↑ S ₂ 35° S ₁ 50° 63°			Thickest sandst beds marked accurately; thinner ones schematic Sandst crystal-rich feld > q; q up to 25%; total crystals 45-70%	Mudst moderate (1-2%) pyrh-bearing
140	gb ↑ ↑ ↑				
150	↑		grey silicified (large ? pumice block with 25-30% 3mm feld crystals)	142m grey moderately crystal- rich (<30% crystals, q 7%) tuffaceous sandst.	

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Reed Volcanics, Tasmania Location White Spur		Drill hole no. WSP 4
Co-ords		RL	Scale 1:200	Page 4 of 8
Azim	Incl	Diam	Logged by Rod Allen	Date 19.4.97
m	Structure	Log with grainsize mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description
150				<p>5 cm</p> <p>sericitic pumice clast</p> <p>pumice framme oriented parallel to S₁ and are chl or ser altered with 30-40% f > q (q 15%) average 2-2.5mm phenocrysts. Qtz commonly as big or bigger than feld.</p>
160				
170				as below
180				<p>This unit similar to:</p> <ol style="list-style-type: none"> (1) Hercules hanging wall q-phyre crystal-rich mass flow in G10 pit & Heres South holes (2) Base of white spur Fm at west Heres and Sth of Sth Heres (Red 87-9) (3) Rosebery HW units 2a & 4 <p>Abundance of q-f porphyry pumice & lithics most similar to <u>Rosebery Unit 2a.</u></p>
190				
200				<p>Green ser-chl-altered 40% 3mm f > q porphyry pumice clast Qtz larger than feld & up to 7mm</p> <p>decreasing crystal % increasing pumice matrix and framme</p>

GRAPHIC LOG Volcanic Resources Ltd		Project Mt Read Volcanics, Tasmania Location White Spur		<input checked="" type="checkbox"/> Drill hole no. WSP 4 <input type="checkbox"/> Location no.	
Co-ords		RL	Scale 1:200	Page 6 of 8	
Azim	Incl	Diam	Logged by Rod Allen	Date 18-4-97	
m	Structure	Log with grain size mud 0.5 2 8 32 max mm	Samples TS results Chemistry	Rock / facies description	Alteration
250				<p>Normal graded, poly lithic-rich, feld > qtz - phric pumice breccia subaqueous mass flow unit.</p> <p>Lower half v. lithic-rich with pumiceous and moderately crystal-rich matrix (20-30% 1-2mm f > q including 2-5% q) 1-2% 0.5-1mm q crystals Top is pumice shred fg sandst.</p> <p>Lithics clast-supported or lower 27m then matrix supported above that. Angular to subrounded.</p> <p>Lithic clast types in order of abundance:</p> <ol style="list-style-type: none"> 1-2% 1mm q crystals (1) pale grey to cream, siliceous 1-5% 1-1.5mm f > q - porphyritic rhyolite lava. Some peritite. (70% of lithics) 3-5% q 20-30% total crystals (2) 10-15% f > q - porphyritic rhyolite (3) pale grey limestone and lime-matrix volcanic sandst. Several clasts fossiliferous (4) dissem. semi-massive & massive sulphide clasts Pysh > sp (5) 15-25% 1.5-2mm feld - porphyritic andesite <p>Unit similar to: Hercules Mt hanging wall (#956), Rosebery hanging wall units 2d & 3a. Less crystal-rich than Hercules West basal White Spur unit with sulphide clasts. ? Similar to White Spur basal unit with sulphide clasts at 64 000 N but less crystal-rich base.</p>	<p>pervasive weak-moderate silicification > ser</p> <p>1-2% pysh > sp as matrix impregnation + mineralized clasts + minor massive sulphide clasts.</p>
260				<p>5 cm scale bar</p>	
270				<p>2-3% 1mm q crystals</p>	
280				<p>3-5% q 20-30% total crystals</p> <p>brown-weathering sooty carb altered volc clast</p> <p>Sp > gn mineralized rhyolite clast</p>	
290				<p>1cm scale bar</p>	
300					



GRAPHIC LOG
Volcanic Resources Ltd

Project Mt Read Volcanics, Tasmania
Location White Spur

Drill hole no. WSP 4
Location no.

Co-ords

RL

Scale 1:200

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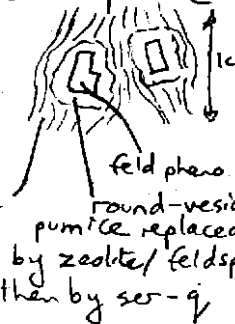
Azim

Incl

Diam

Logged by Rod Allen

Date 18.4.97

m	Structure	Log with grainsize					max mm	Samples TS results Chemistry	Rock / facies description	Alteration
		mud	0.5	2	8	32				
350								← 5 cm →	yellowish-grey moderate sericite; 1-2% py blebs + dissem.	
								? appears more feld crystal-rich (25-35%) above 356m, partly due to the sericitised feld overgrowths looking like part of the feld phenocrysts	mottled-blotchy to banded moderate, mottled to banded, dark green-grey, yellow grey and pale grey	
360							medium grey, fg 1% 1-2mm feld-phyric & finely micro-litic; leucocr-rich dacite/andesite lithic. Crum like cauliflower margins	Massive to diffuse 2-10cm banded, 20-25% 2mm feldspar-phyric pumice breccia	ser-chl and ser-qtz 1-2% fine dissem py-pyrh in feld crystals ≤ 1% dissem magnetite < 0.5mm	
								Textures: 		
370							grey fg leucocr-rich ?dacite	grey massive fg 1-2% 1mm feld-porphyritic ?dacitic lithic clasts occur allway to top of unit, suggests fine-grained graded top, eroded off.	Moderate late tectonic q > chl veins	
								(Equivalent to Rosebery-Hercs) footwall pumice breccia		
380								Lithics pink/orange feld-altered below 386m		
								Size of pumice clasts difficult to estimate in this hole		
390							brown-orange 15% 1-2mm f-dacite lithic	Distinct flame rare.	386m gradational blotchy/mottled pink feld > green chl = strong ?diagenetic alteration.	
							bright orange, Si 1-1.5mm f → ferruginous porphyritic rhyolite/dacite fg aphyric leucocr-rich ?dacite		Weak late to post tectonic q-chl veining	
400							bright orange 10% 1-2mm feld-rhyolite/dacite lithic	End of hole 400.3m	feld crystals moderately ser altered (cream)	