

RGC EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	WSP8	DRILLED BY	Fred Ortner
PROJECT	White Spur	NORTHING	5360986
PROSPECT		EASTING	376812
DESIGNED BY	M Vicary	RL	565
LOGGED BY	M Vicary	INCLINATION	-60
COMMENCED	24/09/97	AZIMUTH	090
FINISHED	03/11/97	EOH	385.3

PURPOSE

To test the White Spur Formation - Central Volcanic Sequence contact about 150m north of WSP5, which intersected low grade Zn - Pb mineralisation. The hole was targeted at a combined CSAMT, DIGHEM and DHEM anomaly.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-60	090	120	-55.2	098	241	-50	098
30	-59.2	100	150	-54	097	271	-48	098
34	-58.7	096	180	-52.5	098	301	-46.5	102
60	-58	097	205	-51.5	098	330	-45	104
91.3	-56.9	097	223	-50.75	098	360	-44.8	105

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	0 - 278.4	Hole cased with PVC to end of hole.
NQ	278.4 - EOH	

SUMMARY

Summary Log:-	
0 - 8.4	Mass flows
8.4 - 21.1	Black siltstone
21.1 - 47.0	Rhyolite intrusion
47.0 - 64.7	Black siltstone
64.7 - 85.2	Rhyolite intrusion
85.2 - 117.0	Black siltstone
117.0 - 170.3	Ashy siltstone and fine grained dacitic volcanoclastic sandstone
170.3 - 215.0	Black siltstone
215.0 - 218.2	Dacitic volcanoclastic sandstone
218.2 - 243.2	Interbedd black siltstone and ashy siltstone
243.2 - 264.9	Ashy siltstone and fine grained dacitic volcanoclastic sandstone
264.9 - 277.2	Altered Central Volcanic Sequence
	inc. 265 - 267.8m 2.8m @ 0.7% Zn and 0.2% Pb
277.2 - 385.3	Central Volcanic Sequence

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DRILL HOLE No WSP8 (SUMMARY)

SHEET 1 OF 2

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

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE :
 LOGGED BY :

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0-8.4					Polymictic Massflow	Chf	CLSS	CLSS
8.4-21					Black siltstone	Chf	SILT	SILT
21-47.05					Rhyolite Intrusive	CP	IRZ	IRZ
47.05-64.7					Black siltstone	Chf	SILT	SILT
64.7-85.2					Rhyolite Intrusive	CP	IRZ	IRZ
85.2-117.0					Black siltstone	Chf	SILT	SILT
117.0-120.0					Interbedded black siltstone and ashy siltstone	Chf	SILT	SILT
120.0-170.3					Interbedded ashy siltstone and f.g.v. volcanoclastic sandstone	Chf	SILT	SILT
170.3-215.2					Black siltstone	Chf	SILT	SILT

REMARKS

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DRILL HOLE No WSP8 (SUMMARY)

SHEET 2 OF 2

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

PROJECT : EL 5/96
 PROSPECT : WHITE SPUR
 DATE :
 LOGGED BY :

HOLE DEPTH METER	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0-10						CLSS	SILT	SILT
10-20					215.2-218.2 Volcanoclastic sandstone	Chf	SILT	SILT
20-30					218.2-243.2 Interbedded black siltstone and ashy siltstone	Chf	SILT	SILT
30-40						Chf	SILT	SILT
40-50					243.2-266.9 Interbedded ashy siltstone and f.g.v. volcanoclastic sandstone	Chf	SILT	SILT
50-60						Chf	SILT	SILT
60-70					266.9-279.2 M.g.v. volcanoclastic sandstone	Chf	SILT	SILT
70-80						Chf	SILT	SILT
80-90						Chf	SILT	SILT
90-100						Chf	SILT	SILT
100-110					279.2-385.3 M.g.v. Feldspar phytic volcanoclastic sandstone (am. breccia)	Chf	SILT	SILT
110-120						Chf	SILT	SILT
120-130						Chf	SILT	SILT
130-140						Chf	SILT	SILT
140-150						Chf	SILT	SILT
150-160						Chf	SILT	SILT
160-170						Chf	SILT	SILT
170-180						Chf	SILT	SILT
180-190						Chf	SILT	SILT
190-200						Chf	SILT	SILT

REMARKS

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

PROJECT : EL 5196
 PROSPECT : WHITE SPUR
 DATE : OCT-NOV 1997
 LOGGED BY : M VICARY

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
0-0.8m						Approx. Glacial Deposits	APP	TILL	
0.8-6.7						Polymictic massflow, mainly irregular shaped dark brown clasts; some black siltstone (largest clast up to 10cm).	Eyinf	VDLC	L-7
6.7-7.1						Black siltstone		SILT	
7.1-8.4						Similar to massflow at 0.8-6.7m but higher proportion of black silt in matrix		VDLC	
8.4-17.6						Predominantly thinly bedded black siltstone. Highly folded or slumped?		SILT	
17.6-18.1						irregular shaped rhyolite clasts in black siltstone matrix		SILT	VDLC
18.1-21.1						massive to thinly bedded black siltstone		SILT	

- Bedding
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- ↖ Narrow vein
- * Visible gold

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH M	SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
							FORMATION	ROCK	ALTERATION
21-22.4						Elyolite breccia. Variety of clast lithologies: - massive, flow banded, cherty etc.	EYSS	SILT	
22.4-31.0						Generally massive rhyolite. Some poorly developed flow banding and clastic horizons		IRCL	
31.0-34.0						Abundant curved planar rhyolite clasts in rhyolitic matrix. Clasts are preferentially chertified.		IRCB	
34.0-47.05						Generally massive rhyolite. Some flow banding and breccia horizons		IRCL	

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DRILL HOLE No WSP 8

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- Visible gold

SHEET 3 OF 20

PROJECT : _____

PROSPECT : _____

DATE : _____

LOGGED BY : _____

HOLE DEPTH SAMPLE PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
40								
41								
42								
43								
44								
45								
46								
47					468-47-05 Rhyolite breccia. Intrusive Contact.			
48		S025						
49								
50								
51								
52								
53								
54								
55								
56		S040						
57								
58								
59								
REMARKS								

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DRILL HOLE No WSP 8

- Bedding
- Cleavage
- Foliation
- Fault, Shear
- Breccia
- Broken core
- Disseminated
- Massive
- Pervasive
- Narrow vein
- Visible gold

SHEET 4 OF 20

PROJECT : _____

PROSPECT : _____

DATE : _____

LOGGED BY : _____

HOLE DEPTH SAMPLE PREP	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
REMARKS								

66.7-68.1
Intermixed blue and black siltstone

68.1-85.2
Qtz-feldspar phytic Rhyolite Intrusive

Upper Contact
- intensely flow banded, some suggestion of brecciation and intermingling with overlying sediments

Intense bleaching 68.1-69.8m.

EP
IR>
Q-8

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DRILL HOLE No WSP8
SHEET 5 OF 20

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

PROJECT :
PROSPECT :
DATE :
LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK	ALTERATION
1					Lower Contact bleached zone 83.0-85.2	GP	IR	Q--8
2					Well developed flow banding 86.0-85.2			
3					Contact with underlying siltstone is very sharp			
4								
5								
6					85.2-117			
7					Intruded thin bedded black pyritic siltstone with minor dark grey ash siltstone.			
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

REMARKS S1 40

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DRILL HOLE No WSP8
SHEET 6 OF 20

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

PROJECT :
PROSPECT :
DATE :
LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						Formation	ROCK	ALTERATION
1								
2								
3								
4								
5								
6					105.2-106.3 strongly broken or puggy black siltstone			
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

REMARKS

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DRILL HOLE No WSP8

SHEET 7 OF 20

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0					Broken core			
1								
2					120-136:2 fine grained ashly siltstone lower contact gradational			
3								
4		S.80						
5								
6								
7								
8								
9								
130								
1								
2								
3								
4								
5								
6								
7		S.140			136-143:6 fine grained ashly etc sandstone			
8								
9								

REMARKS

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RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 8 OF 20

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
0								
1								
2								VDFE
3								
4								
5					143-148 ashy siltstone			
6								VDFE
7								
8								
9								
150								
1								
2								
3								
4								
5								
6								
7								
8								
9								
160								

REMARKS

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 9 OF 20

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

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METERS	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							FORMATION	ROCK ALTERATION
160								
1								
2								
3								
4								
5								
6								
7								
8								
9								
170								
1						170.3 - 177 Thinly laminated black (pink) siltstone		
2								
3								
4								
5								
6								
7								
8								
9								
180								
1						177-184.7 Thinly laminated black siltstone		
2								
3								
4								
5								
6								
7								
8								
9								

REMARKS _____

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RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 10 OF 20

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

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH METERS	SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY	
							FORMATION	ROCK ALTERATION
160								
1								
2								
3								
4								
5								
6								
7								
8								
9								
180								
1								
2								
3								
4								
5								
6								
7								
8								
9								

REMARKS _____

184.5 - 215.2
Predominantly black siltstone

188 - 203.5
Zone of pyrochloite carbonate veining

SILT
SILT

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 11 OF 20

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
200								
1								
2								
3								
4								
5			So10					
6								
7								
8								
9			So10					
20								
1								
2								
3								
4								
5			So 5					
6					215 Z - 218 Z Klaproth (?) phytic volcanoclastic sandstone			
7								
8								
9					218 Z - 213 Z mixed sequence of interbedded black siltstone and ashy black-grey softstone			
220	REMARKS							

RGC EXPLORATION PTY LTD

DRILL HOLE No WSP8

SHEET 12 OF 20

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE No PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						FORMATION	ROCK	ALTERATION
240								
1								
2								
3			So 25					
4								
5			So 50					
6					void			
7					matrix - Rd silt pebbles in silty matrix			
8					matrix			
9								
230								
1			So 100					
2								
3								
4			So 5					
5					233.5 - 236.7 gray ashy siltstone, minor hydrothermal fracturing.			
6								
7								
8								
9								
240	REMARKS							

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DRILL HOLE No WSP8

SHEET 15 OF 20

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

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					PREPARED	ROCK	ALTERATION
70	11	42	130	11-2			279-2 - 2820 Pebbly chL qtz - ser alteration. Some well developed pyrite textures			AO50	
71	4	16	26	10-7							
72	6	29	60	10-6							
73	6	68	113	10-0							
74	7	100	161	9-8							
75	2	23	77	9-6							
76	4	339	86	10-2						OSA 6	
77	4	20	56	10-7							
78	2	15	34	10-8							
79	2	9	31	11-3							
81	7	28	72	10-9					Cov VDFM		
82	11	124	302	10-6							
83	9	114	327	10-1							
84	7	67	111	10-5							
85	5	14	33	10-5					50705		
86	24	158	653	10-7							
87	7	52	118	11-8							
88	9	62	137	4-2							
89	8	92	177	10-7							
90	8	25	81	11-0							

REMARKS

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DRILL HOLE No WSP8

SHEET 16 OF 20

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

PROJECT : _____
 PROSPECT : _____
 DATE : _____
 LOGGED BY : _____

HOLE DEPTH	SAMPLE NO	ASSAY RESULTS			STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
		Cu	Pb	Zn					PREPARED	ROCK	ALTERATION
91	11	30	102	11-2							
92	11	7	46	11-3							
93	9	18	54	11-3							
94	8	106	171	11-4							
310											
320											

REMARKS

Cov
VDFM
50705
OA-6

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN/TREND	ROCK	ALTERATION
20								
1								
2								
3								
8			vein		↑ veinlets best developed at margins of vein.			
5								
6								
7								
8								
9								
370								
1								
2								
3								
4								
5								
6								
7								
8								
9								
REMARKS								

427106

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

PROJECT :
 PROSPECT :
 DATE :
 LOGGED BY :

HOLE DEPTH SAMPLE NO PREFIX	ASSAY RESULTS	STRUCT.	GRAPHIC LOG	ALTERATION	GEOLOGY NOTES	SUMMARY		
						VEIN/TREND	ROCK	ALTERATION
20								
1								
2								
3								
8								
5								
6								
7								
8								
9								
370								
1								
2								
3								
4								
5								
6								
7								
8								
9								
REMARKS								

ECH-385-3

probable breccia horizon

Con
VDFM
OA-b