Territory Goldfields

EL 8139 - RYAN CREEK RELINQUISHMENT REPORT

09.06.93 - 08.06.95
Batchelor 1:100 000 Sheet

C. Fawcett
June 1995

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1. SUMMARY

Exploration activities carried out within the relinquished portion of EL8139, comprised RAB drilling, lag sampling and aeromagnetic interpretation.

The licence area was granted to Dominion Gold Operations Pty Ltd in June 1993. This report outlines all work carried out between 9 June 1993 to 30 March 1995 on those blocks relinquished in March 1995.

2. LOCATION AND TENURE

EL8139 is located about 130km southeast of Darwin on the Burnside (14/2-II) and Margaret River (14/2-11) 1:50,000 map sheets. The relinquished blocks lie between latitudes 13°12'S and 13°15'S and longitudes 131°23'E and 131°25'E (See Figure 1)

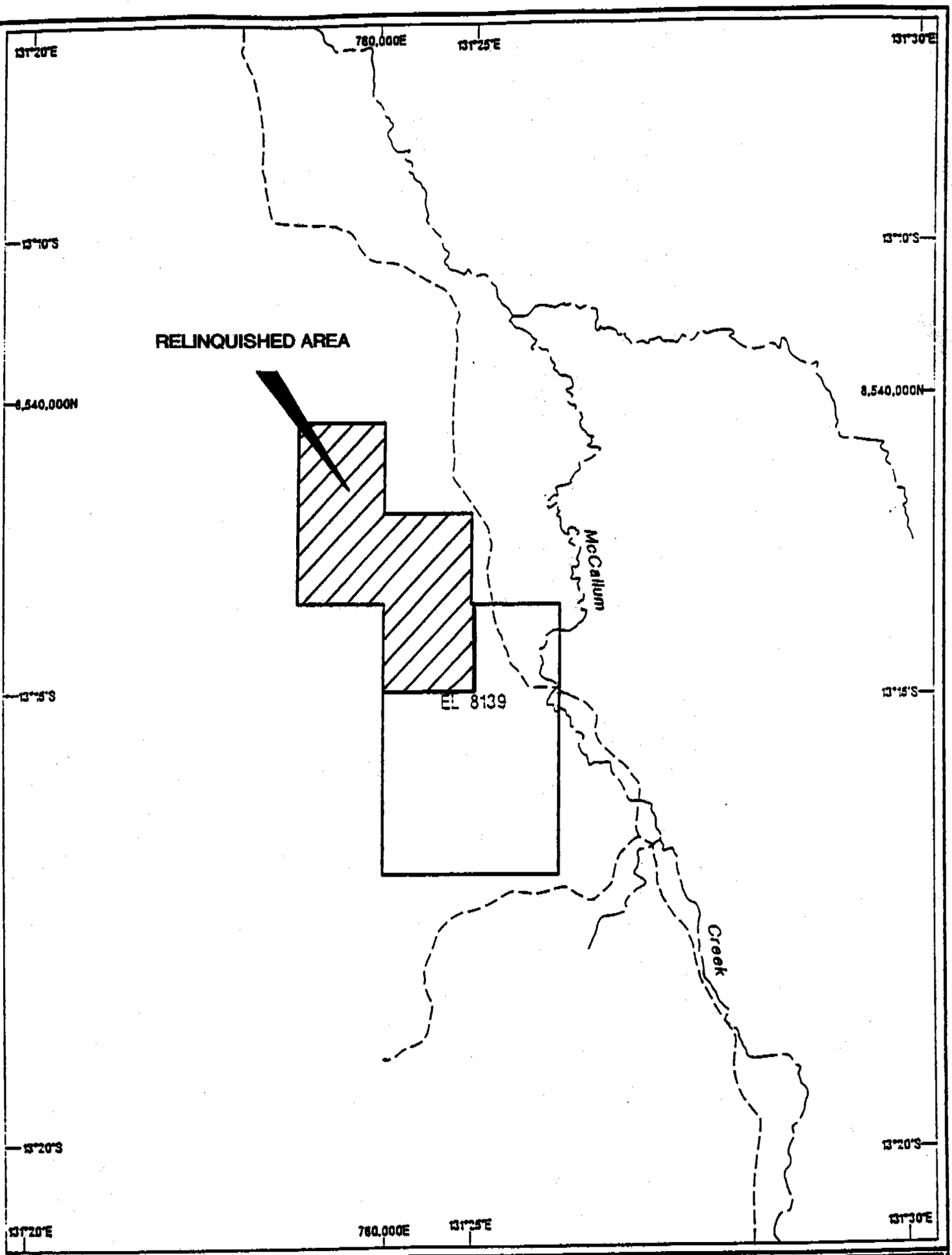
Access is via the Stuart Highway and Mt Ringwood Station tracks.

3. GEOLOGY

3.1 Regional Geology

The Pine Creek Inlier is a roughly triangular area of about 66,000km^2 south and east of Darwin, which contain Early Proterozoic metasedimentary rocks resting on a gneissic and granitic archaean basement. The metasediments represent fluviatile, shallow water and intertidal basinal sequence up to 14km thick (Needham et al, 1980).

During the Top End Orogeny (1870-1780Ma) the rocks were metamorphosed to mainly greenschist facies, however, amphibolite facies dominates in the northeast in the Alligator Rivers region. Proven Archaean rocks are restricted to mainly granite-gneiss of the Rum Jungle, Waterhouse and Nanambu Complexes which formed mantled gneiss domes near the presently exposed western and eastern margins of the inlier.



1 : 100,000

0 1 2 3 4

kilometres

RYAN CREEK - EL 8139

TENEMENT LOCATION

PROJECT:	PINE CREEK			STATE:	N.T.
ORIGINATOR:	M.Palmer	Date:	Jul'94	DRAWN\REVISED:	W.P. Jul'94
SCALE:	1 : 100,000	FIGURE No:		PLAN No:	2X-Tb2

Dominion Mining Limited

The sedimentary rocks are mainly shale, siltstone, sandstone, conglomerate, carbonate rocks and iron formations. Felsic to mafic volcanism and associated tuffaceous sediments are also present. The sedimentary sequence is intruded by transitional igneous rocks including pre-tectonic dolerite sills and syn to post tectonic granitoid plutons and dolerite lopoliths and dykes. Largely undeformed platform covers of Middle Proterozoic to Mesozoic strata rest on these with marked uniformity.

3.2 Local Geology

EL8139 is underlain by rocks of the Mt. Bonnie and Burrell Creek Formations of the Lower Proterozoic. Outcrop within the lease is sparse with low hills of Mt. Bonnie Formation and Burell Creek Formation sediments in the SE corner. For the most part the lease is covered with recent alluvial sediments derived from the Margaret River drainage system.

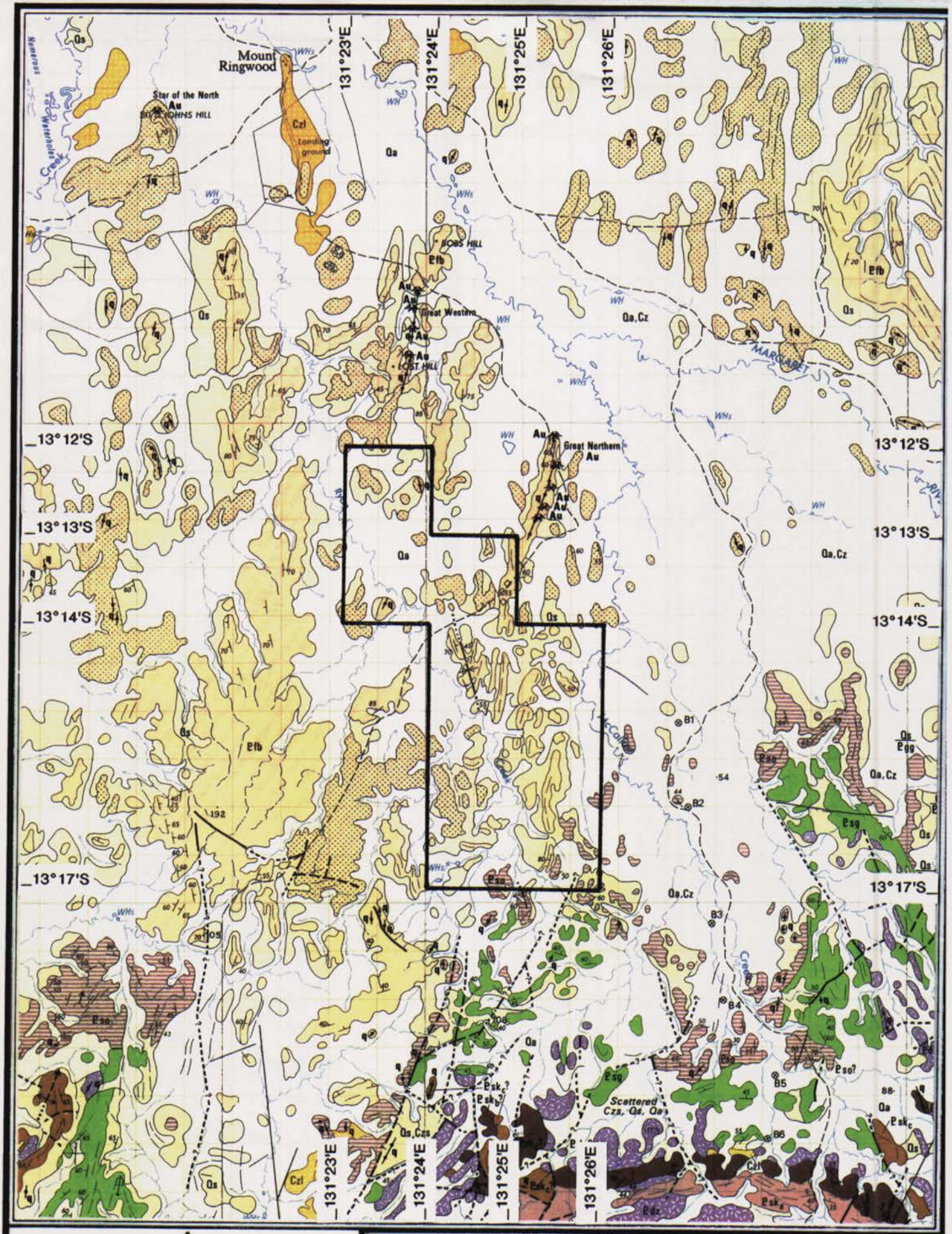
The structure of the area has not been resolved in any detail however there are a number of NW trending anticlinal structures. See Figure 2 for Fact Geology.

4. DOMINION EXPLORATION

Exploration activities within the relinquished portion of EL8139 in the first two years of tenure has included the acquisition and interpretation of geophysical data, RAB drilling and lag sampling.

Interpretation of the aeromagnetic data revealed a 'bullseye' magnetic high in the southern area which was thought to resemble that associated with the Goodall deposit. No magnetic features were evident in the relinquished blocks. (Palmer 1994).

RAB drilling was carried out over the relinquished blocks where outcrop was sparse. This involved the drilling of 23 holes for a total of 97 metres, to depths of up to 12 metres with the average depth approximately 4 metres. The bottom 1 or 2 metres of each hole was sampled and analysed for Au, Cu, Pb, Zn, Ag, As, Bi, Fe, and Mn. Results can be seen in Appendix 1.



EL 8139
FACT GEOLOGY

PROJECT	BURNSIDE			STATE	N.T.
ORIGINATOR	M.P.	Date 6/94	DRAWN L.C.	Date	6/94
SCALE 1:100000	FIGURE No. 2		PLAN No:		2X–Ga2

Dominion Mining Limited

Lag sampling covered the southern portion of the relinquished blocks. Forty two samples of +2mm-8mm size were collected and submitted to Amdel Darwin for analysis Au, Cu, Pb, Zn, Ag, As, Fe, Mn and Bi. Results can be seen in Appendix 2.

Samples numbers and locations can be seen in Plate 1.

5. REFERENCES

Needham, R.S., Crick, J.H. and Stuart-Smith, P.B. (1980) 'Regional Geology of Pine Creek Geosyncline.' In Proceedings of the International Uranium Symposium. International Atomic Energy Agency. Vienna p1-22.

Palmer, M., 1994. EL8139 - Ryan Creek, Annual Report, Year One of Tenure, 9 June 1993 to 8 June 1994. Unpublished report to the NTDME.

8540000m N

RELINQUISHED AREA

EL 8139

8535000m N

8530000m N

755000m E

760000m E

O RAB DRILLING

\+ LAG SAMPLE

Territory Goldfields N.L.

EL 8139

RAB AND LAG SAMPLE LOCATIONS

PROJECT			STATE
ORIGINATOR	Date	DRAWN	Date
SCALE	PLATE NO. 1		PLAN NO:

APPENDIX 1

RAB DRILLING LOGS

AND ASSAY RESULTS

DOMINION MINING LIMITED

VERTICAL RAB LOG

Contractor: ____________ Project: Mt Ringwood Prospect: Ryan's ~~McGuttons~~ Creek Page __ of __

Logged: Dm Sampled: Jm Date: 18/10/94

Hole No.	Co-ordinates	Primary Descriptor	Altn	Comp	Mavn	Rock	Text	Wath	Remarks	Sample No.	Interval	Au		Depth	Em Blade	Em Hammer
85 ~~94RDVR 001~~ 94RDVR286	37000N 761600E 37010N 61580E	cy Oal									0-3					
		sil Sgw LB7								40876	3-6			4		
287 ~~002~~	761400E 37030N 61420E	cy Oal									0-2					
		Sgw LB7								40877	2-3			3	7	
288 ~~003~~	61200E 37070N 61200E	cy Oal									0-2					
		Sgw LB								40878	2-3			3	10	
289 ~~004~~	761000E 37070N 61050E	cy Oal									0-2.5					
		Sgw LA								40879	2.5-3			3	13	
290 005	760800E 36980N 60800E	cy Oal									0-3					
		wnd Sgw LA								40880	3-6			4	17	
~~006~~	~~760600E~~								Duplicate	40881	3-6					
291 ~~006~~	760600E 36970N 60580E	cy Od									0-2					
		Fel Snd L7						wea		40882	2-3			3	20	
292 ~~007~~	760400E 36980N 60360E	Oal/Od									0-2					
		Fel Snd BL5								40883	2-3			3		
293 ~~008~~	760200E 36950N 60195E	cy Oal									0-2					
		Fel Snd BL								40884	2-3			3	26	
294 ~~009~~	760000E 36900N 59970E	Od									0-1					
		ind Snd R5								40885	1-1.5			2	28	
~~010~~	759800E 37020N 59800E															

Remarks:

DOMINION MINING LIMITED

VERTICAL RAB LOG

Contractor: _____

Project: ML Ringwood | Prospect: Ryan's Creek | Page __ of __

Logged: DM | Sampled: JM | Date: 18/10/94

Hole No.	Co-ordinates	Primary Descriptor	Secondary Descriptor						Remarks	Sample No.	Interval	Au		Depth	Em Blade	Em Hamme
			Attn	Comp	Mnrn	Rock	Text	Weth								
95	37000N 7594000E									40886					29	
94RVR 10	37020N 59820E	cy Ocy									0-3					
94RVR 295		Per Sgw R6	Per		Fe-vlt					40886	3-5			5	33	
296 H	37020N 7596000E 59610E	cy Ocy									0-5					
		cy Osp									5-7					
		stk Sgw BL7			stk					40887	7-9			9	42	
297 H	37020N 7594000E 59150E	cy Oal							gravel.		0-5					
		cy Osp									5-10					
		cy Sgw BL7							-	40888	10-12			12	54	
298 H3	36970 7592000E 59180E	cy Oal							gravel		0-6					
		Pol Smd BLR								40889	6-9			9	63	
297 H6	36900N 7590000E 58900E	cy Oal							gravel		0-5					
		Smd ALB								40890	5-6			6	69	
		Creek → new line														
95 300 H5	38600N 7584000E 38650N 58350E	cy Oal							basal gravel		0-4					
		Pol Smd BL								40891	4-6			6	75	
301 H6	38890 7586000E 58560E	cy Oal									0-2					
		Sgw								40892	2-3			3	78	
302 H7	38570 768800 58770	Bal									0-1					
		Smd								40893	1-2			2	80	

Remarks:

DOMINION MINING LIMITED

117
97
R14

VERTICAL RAB LOG

Contractor: _____

Project: Ringwood Prospect: Ryans Creek Page __ of __

Logged: Dm Sampled: 7.5m. Date: 18/10/96

Hole No.	Co-ordinates	Primary Descriptor	Secondary Descriptor						Remarks	Sample No.	Interval	Au		Depth	Em Blade	Em Hamm
			Alln	Comp	Mnvn	Rock	Text	Weth								
94RTVR 85	38600N 759000E	Od							o/c		0-1				80	
94RDVR 303	38550N 58980															
		cg SgwL								40894	1-2			2	82	
304 19	38590 759200E 59180E	Od.														
											0-1					
		cg SgwLA								40895	1-3			3	85	
305 20	38570 759400E 59400E	cg Od														
											0-2					
		cg SgwLP								40896	2-3			3	88	
306 21	38570 759600E 59600E	cg Od														
									log		0-2					
		cg Sgw								40897	2-3			3	91	
307 22	38530N 59820E	Od							"							
											0-1					
		cg SgwLB								40898	1-3			3	94	
308 23	38620N 760000 59980E ??															
											0-1					
										40899	1-3			3	97	
		E.O.L.							Std RUD-1	40900						
		Across Creek.														

Remarks:

amdel

Job: 4DN1487
O/N: 20771

Final

ANALYTICAL REPORT

SAMPLE	AuDp1	AuDp2	Cu	Pb	Zn	Ag	As
40876	1	--	47	3	39	<0.1	20
40877	<1	--	26	7	38	<0.1	<5
40878	<1	--	19	7	35	<0.1	<5
40879	<1	--	17	8	40	<0.1	<5
40880	<1	--	17	3	41	<0.1	<5
40881	2	--	18	3	41	<0.1	<5
40882	<1	--	24	2	50	<0.1	<5
40883	<1	--	38	7	45	<0.1	10
40884	<1	--	24	6	65	<0.1	<5
40885	<1	--	22	10	35	<0.1	15
40886	2	--	24	8	43	<0.1	10
40887	7	--	44	18	54	<0.1	10
40888	1	--	14	6	42	<0.1	<5
40889	2	2	43	27	71	<0.1	15
40890	1	--	18	10	56	<0.1	<5
40891	2	--	21	5	39	<0.1	<5
40892	<1	--	9	4	41	<0.1	<5
40893	<1	--	6	4	38	<0.1	<5
40894	<1	<1	4	4	37	<0.1	<5
40895	<1	--	5	2	42	<0.1	<5
40896	<1	--	26	2	32	<0.1	<5
40897	<1	--	29	4	34	<0.1	<5
40898	<1	--	23	4	51	<0.1	15
40899	<1	--	37	12	29	<0.1	20
40900	7	--	16	54	14	<0.1	30

UNITS	ppb	ppb	ppm	ppm	ppm	ppm	ppm
DET.LIM	1	1	1	1	1	0.1	5
SCHEME	AA9	AA9	AA9	AA9	AA9	AA9	AA9

Job: 4DN1487
O/N: 20771

Final

ANALYTICAL REPORT

SAMPLE	Bi	Fe	Mn
40876	<1	3.02%	130
40877	<1	3.50%	230
40878	<1	3.10%	390
40879	<1	3.26%	280
40880	<1	4.08%	300
40881	<1	4.60%	330
40882	<1	3.88%	300
40883	<1	3.20%	290
40884	<1	4.18%	230
40885	<1	7.32%	23
40886	<1	3.94%	590
40887	<1	4.04%	420
40888	<1	3.00%	125
40889	<1	5.32%	280
40890	<1	3.42%	450
40891	<1	2.64%	240
40892	<1	2.66%	175
40893	<1	3.38%	170
40894	<1	2.98%	230
40895	<1	2.98%	280
40896	<1	2.56%	200
40897	<1	2.54%	220
40898	<1	4.02%	420
40899	<1	3.24%	370
40900	10	15.1%	200
UNITS	ppm	ppm	ppm
DET.LIM	1	5	4
SCHEME	AA9	AA9	AA9

APPENDIX 2

LAG SAMPLING LOGS

AND ASSAY RESULTS

DOMINION MINING LIMITED

5.4

GEOCHEMICAL SAMPLING TENEMENT : EL8139

Project: Ringwood   Prospect: Ryan's Creek   Page __ of __

Sample Type: LAG +2, -8   Sampler: BD   Date: 29/10/94

Laboratory: ______   Analytical Methods: ______

Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor			Sample No. Prefix	Analysis Au.			
8537000N 759920E 760000E	W → E	Fer Rkn PR	angular			44154	<			
760160E 760200E	↔	Fes Rkn PR	"	/edge		44155	<			
760420 760400E	↔	Fer Rkn PR	vqz - tr			44156	<			
8536850N 760700E	↔	Fer Rkn PR	"	"		44157	<			
7369304N 761210E	↔	Fol Sand PR				44158	<			
		NS								
37000N 761720E 761700E	W → E	Fol Sand PR	vqz - tr			44159	1			
		E.O.L.								
8536200N 761700E	E → W	Fer Sand PRB				44160	<			
STANDARD		RMD-3				44161	5			
761570E 761600E		Fer Sun PRB	vqz - tr			44162	<			
761400E 761400E		whl Sqw RB	vqz - tr			44163	<			
761200E 761200E		Fol Sand PR	angular			44164	<			
761080E 761000E		Le Rkn PR	"			44165	4			
760770E 760800E		Fol Sand PR	"			44166	<			
760570 760600E		"	"			44167	<			
760300E 760400E	?????!!!	"	" / vqz - tr			44168	<			
760060E 760100E		Fer Rkn PRB	subrounded / vqz - 5%			44169	4			
759900E		Fer Rkn PRB	angular			44170	<			
759680E 759600E		Fol Sand PRB	"			44171	2			
8536260N 759500E	W Vqz E	Fol Sand PRB	vqz - 5%			44172	<			
8536200N 759400E	E W	(Rock:) Fer Rvq				44173	2			
8536200N 759410 759400E	E W	Fer Sqw RB				44174	13			
759230 759200E		Fer Sand PR				44175	<			
759000E 759000E		Vq Rkn PRQ	vq - 20%			44176	2			
758800E	BS	Fer Rkn PRQ	" tr			44177	<			
758580E 758600E	BS	Fer Rkn PBR				44178	<			
758410E 758400E		Fer Rkn PBR	Vqz - 3%			44179	<			
		E.O.L.								

Remarks

DOMINION MINING LIMITED

GEOCHEMICAL SAMPLING

Project: Ligneed Prospect: Ryan's Creek Page __ of __

Sample Type: LAG +2, -8 Sampler: BD Date: 29/10/94

Laboratory: __ Analytical Methods: __

Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor			Sample No. Prefix	Analysis			
							A_u			
758240E 758280E	E W	Fe-Rich RBR	Weathered			44180	<			
Duplicate		"				44181	1			
58610E 758600E		Fe-Rich PR				44182	<			
58180 758200E		Fe-Rich PR				44183	<			
		E.O.L								

Remarks

DOMINION MINING LIMITED

GEOCHEMICAL SAMPLING

Project: Ringwood Prospect: Ryans Creek. Page ___ of ______

Sample Type: LAG +2, -8 Sampler: BD Date: 2/11/94

Laboratory: AMDEL Analytical Methods: ______

	Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor			Sample No. Prefix	Analysis			
								Au			
35	35570N 61370E 761400E	E ↔ W	vqz RkmPR	vqz-	5%		44184	2			
	35350N 611[illegible]E 761200E	→	Fer RscPR				44185	2			
	35400N 60980E 761[illegible]E	↔	FerRscPR				44186	<			
	60780E 760800E	↔	FerRscPR				44187	1			
	60540E 760600E	↔	FerRscPR				44188	<			
	35260N 60310E 760300E	↔ vqz	vqzRscPRw	vqz-	10%		44189	<			
			E.O.L.								
35	34600N 606[illegible] 760600E	W ↔ E	FelRkmPR	vqz-3%			44190.	1			
	60900E??? 760800E	↔	vqz RkmPR	vqz -	10%		44191	2			
	66000E 761000E	↔	vqz RkmPR	vqz -	5%		44192	4			
	61160E 761200E	↔	FelRkmPR	vqz-	tr		44193	2			
	61420E 761400E	↔	Fel[illegible]R	vqz -	tr		44194	2			
	61590E 761600E	↔	vqz RkmPRG	vqz -	10%		44195	1			