

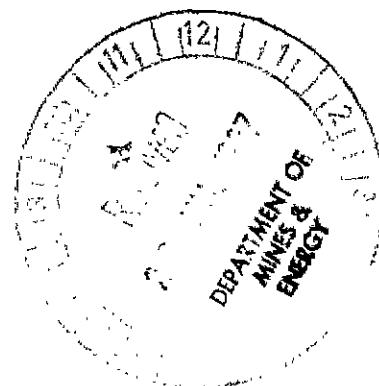
**STOCKDALE PROSPECTING LIMITED**

**EXPLORATION LICENCE 9117**

**PARTIAL RELINQUISHMENT REPORT**

**A.K.BERRYMAN  
SECTIONAL GEOLOGIST**

**July 1997**



# Stockdale Prospecting Limited

a De Beers company

Project Name: PIGEON

Title: Exploration Licence 9117  
Partial Relinquishment Report

Edited. B. McClenaghan

Author/s: A.K.Berryman

Approved:

Date: July 1997

Place: Darwin

1:250,000 Sheet Name/s & No/s: Victoria River Downs SE52-04

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Abstract: Exploration over the relinquished portion of EL9117 involved the collection of 152 heavy mineral samples and the flying of a small aeromagnetic survey. No features of interest were observed in the magnetic data, and heavy mineral samples contained only basaltic spinels. RGC exploration was offered and accepted a joint venture over EL9117 to explore for gold and base metals. A number of geochemical samples were analysed, but no anomalous values were recorded

The relinquished portion of EL9117 therefore is considered to have little potential to host an economic diamond, gold or base metal deposit.

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## **SUMMARY**

Exploration Licence: 9117

Date Granted: 16th May 1997

Retained Area: 167 Blocks ( 538 sq km )

Relinquished Area: 331 Blocks (1066 sq km.)

Occupant: Stockdale Prospecting Limited

Operator: Stockdale Prospecting Limited and RGC Exploration

Commodities Sought: Diamonds

Exploration: Exploration over the relinquished portion of EL9117 involved the collection of 152 heavy mineral samples and the flying of a small aeromagnetic survey. No features of interest were observed in the magnetic data, and heavy mineral samples contained only basaltic spinels. RGC exploration was offered and accepted a joint venture over EL9117 to explore for gold and base metals. A number of geochemical samples were analysed, but no anomalous values were recorded

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**STOCKDALE PROSPECTING LIMITED  
EXPLORATION LICENCE 9117  
PARTIAL RELINQUISHMENT REPORT**

**1. INTRODUCTION**

Exploration Licence 9117 is located near Top Springs on the Victoria River Downs 1:250,000 (SE52-04) mapsheet. The licence, when granted, covered an area of over 1600 sq.km and is part of a greater project area which includes licences 9381, 9390, and 9439-40. Voluntary reduction of EL9117 was made after the first year of tenure (see map 1).

Stockdale Prospecting Limited conducted a programme of heavy mineral stream sediment sampling over the entire reporting area, complemented by geochemical analysis by RGC Exploration. This report details the work conducted and the results obtained.

**2. TENURE**

Tenure details for EL 9117 are outlined in Table 1.

**TABLE 1: TENURE DETAILS EL9117**

LICENCE	APPLICATION DATE	DATE GRANTED	ORIGINAL AREA (BLOCKS)	RELINQUISHED AREA (BLOCKS)	RETAINED AREA (BLOCKS)
9117	24-02-95	16-05-96	498	331	167

Stockdale Prospecting Limited is the occupant of Exploration Licence 9117 and joint operator with RGC Exploration. A joint venture was signed with RGC in 1996, giving RGC exclusive rights to explore for all minerals other than diamond. Stockdale retained 100% interest in all diamonds discovered.

**3. ACCESS / PHYSIOGRAPHY**

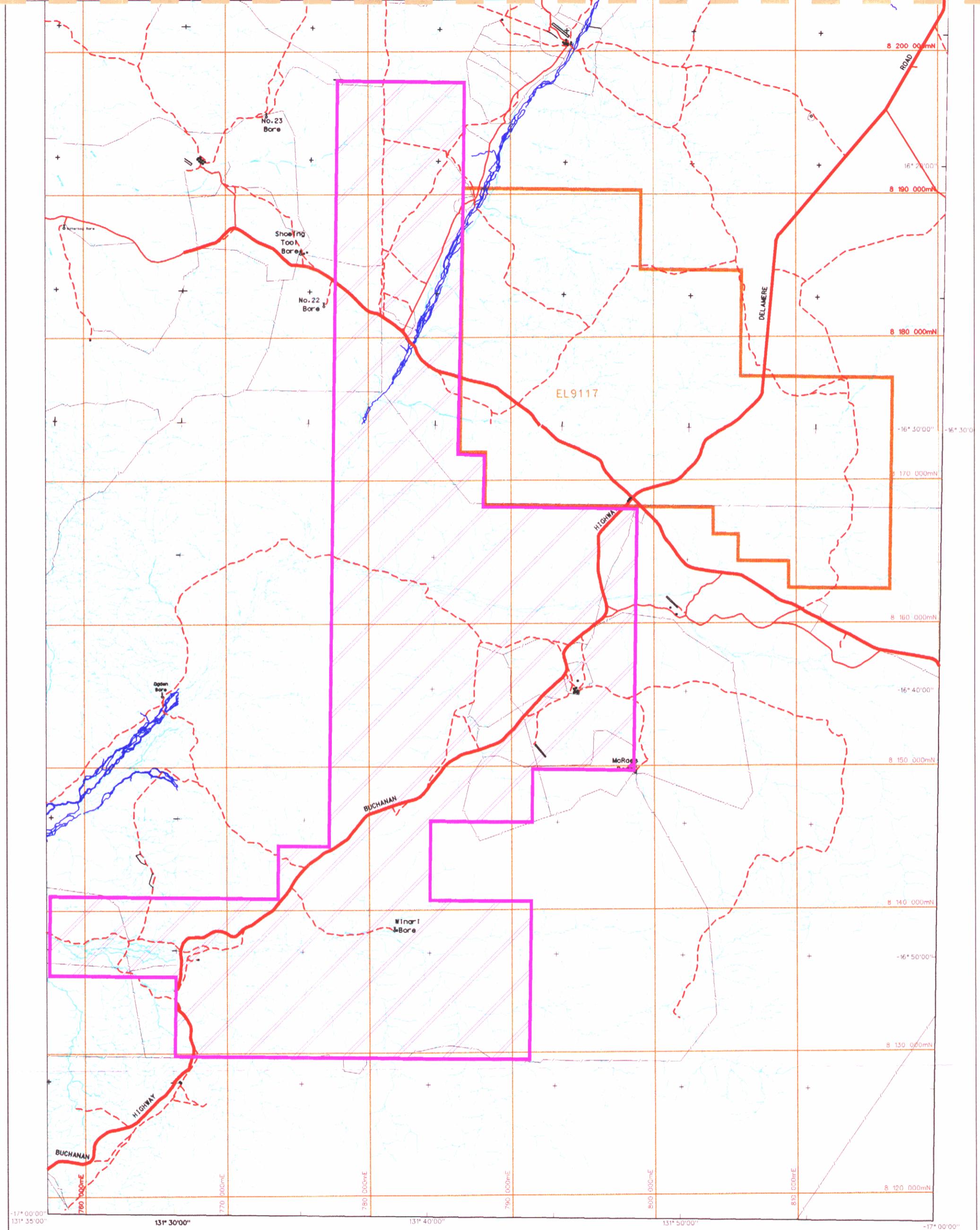
Access to EL 9117 can be gained via the Buntine Highway which crosses the licence. Subordinate access tracks also cross the licence. All heavy mineral sampling was conducted with the use of a helicopter.

The licence falls within the Victoria River plains and benches subunit of the Victoria River Plateau. The area is dominated by a low undulating land surface, created by the weathering of basalt and limestone. The Armstrong River is the main drainage in the area. Vegetation is generally only a few metres in height, although dense woodland can be found along more substantial water courses.

**4. GEOLOGY**

Most of the licence is covered by various units of the Antrim Plateau Volcanics (APV). The area is dominated by massive and porphyritic basalt, which in places contains interbedded chert and crystalline limestone, particularly near the Armstrong River. The Cambrian Montejinni Limestone unit unconformably overlies the APV, and crops out along the eastern margin of EL9117.

Small outliers of the Cretaceous Mulluman beds occur in the east of EL9117, usually overlying the Montejinni Limestone.



TN  
Transverse Mercator  
AMG Zone 52  
Datum AGD66

ANALYSED SAMPLES

- STREAM SAMPLE
- LOAM SAMPLE
- ◊ ROCK SAMPLE
- △ BARRAGE SAMPLE
- BULK SAMPLE
- DRILL SAMPLE
- TRENCH SAMPLE
- UNCLASSIFIED
- PIMA
- GEOSTREAM
- RELINQUISHMENT AREA FOR EL 9117
- BOUNDARY FOR EL 9117

E5204 E5301  
VICTORIA RIVER DOWNS KILLARNEY NELLY CREEK  
PROSPECT MOUNTAIN FLAT TOP HILL  
CAMPFIELD BURGOYNE GORDON  
E5208 E5305  
INDEX TO ADJOINING SHEETS

## 5. EXPLORATION

### 5.1 Heavy Mineral Sampling

A total of 152 heavy mineral reconnaissance samples were collected within the relinquished portion of EL9117. Sample locations are shown on map 2. Each sample consisted of 100 litres of excavated material, screened to either -2.0 or -12.0mm in the field. Geochemical samples were also collected at each site. Sample numbers are as follows:

BN4628	( 1)	BN5460	( 1)
BN4646-55	(10)	BN5477	( 1)
EN4663	( 1)	BN5486	( 1)
BN4665	( 1)	BN5527-28	( 2)
BN4837	( 1)	BN5531-35	( 5)
BN4840	( 1)	BN5539	( 1)
BN4863-77	( 4)	BN5570	( 1)
BN4884	( 1)	BN5777-78	( 2)
BN4886	( 1)		
BN5001-09	( 9)		
BN5029-35	( 7)		
BN5037-48	(12)		
BN5061-68	( 8)	TOTAL	152
BN5074-75	( 2)		
BN5079	( 1)		
BN5082	( 1)		
BN5085	( 1)		
BN5089-94	( 6)		
BN5101-09	( 9)		
BN5119-26	( 8)		
BN5129-36	( 8)		
BN5138-40	( 3)		
BN5148	( 1)		
BN5153-54	( 2)		
BN5157	( 1)		
BN5176-78	( 3)		
BN5211-20	(10)		
BN5234	( 1)		
BN5237	( 1)		
BN5242-43	( 2)		
BN5262	( 1)		
BN5311	( 1)		
BN5368-73	( 6)		
BN5380	( 1)		
BN5382-84	( 3)		
BN5394-96	( 3)		
BN5444-49	( 6)		

Heavy mineral sample results are listed in Appendix 1. Most samples contained some chromite grains, but all grains recovered are considered to be basaltic in origin. No diamonds were recovered.

The geochemical samples were provided to RGC. Analysis results are listed in Appendix 3. RGC considered that broad zinc anomalous was associated with the flow tops of the Antrim Plateau Volcanics and some minor localised copper anomalous was present. The area is considered to have a lack of structural concentration zones. No geochemical values were of sufficient interest to warrant further work.

## 5.2 Aeromagnetics

A small aeromagnetic survey was conducted during the first year of tenure over a very small portion of the relinquished area. The survey was flown with 200m north/south lines and a mean terrain clearance of 60m. No features of interest were seen within the magnetic data and no follow up work was conducted. Contours for this survey can be seen in Appendix 2.

## **6. EXPENDITURE**

Expenditure over the relinquished portion of EL9117 during the first year of tenure totaled \$238,079, as allocated in Table 2

**TABLE 2: EXPENDITURE**

OPERATIONAL STAFF COSTS	35,142
GENERAL OPERATIONAL EXPENSES	6,253
TRANSPORT AND TRAVEL	60,381
FENCEMENT COSTS	3,304
SAMPLE ANALYSIS	207
CENTRAL TREATMENT PLANT	35,153
LAB TREATMENT	17,889
LAB EXAMINATION	31,357
GEOPHYSICAL CONTRACTS	2,000
GEOPHYSICS	1,000
REMOTE SENSING	0
DRAFTING	3,496
REGIONAL ADMINISTRATION	15,495
HEAD OFFICE ADMINISTRATION	20,282
CAPITAL EXPENSES	6,120
TOTAL	238,079

7. **SUMMARY**

Exploration over the relinquished portion of EL9117 involved the collection of 152 heavy mineral samples, and the flying of a small aeromagnetic survey. No features of interest were observed in the magnetic data and heavy mineral samples contained only basaltic spinels. RGC exploration was offered and accepted a joint venture over EL9117 to explore for gold and base metals. Geochemical samples were analysed, but no anomalous values were recorded.

The relinquished portion of EL9117 therefore is considered to have little potential to host an economic diamond, gold or base metal deposit.



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DARWIN, NT  
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APPENDIX 1

HEAVY MINERAL SAMPLE RESULTS, RELINQUISHED PORTION EL 9117

SAMPLE	CHROMITES
BN4646	1
BN4654	1
BN4840	2
BN4863	2
BN4864	1
BN4869	3
BN4871	3
BN4874	3
BN4876	1
BN4886	2
BN5004	1
BN5005	3
BN5007	1
BN5034	1
BN5043	1
BN5048	1
BN5068	1
BN5106	1
BN5108	1
BN5177	8
BN5219	1
BN5237	1
BN5243	1
BN5368	29
BN5369	63
BN5370	20
BN5371	51
BN5372	9
BN5373	24
BN5382	2
BN5383	1
BN5384	7
BN5396	1
BN5444	16
BN5460	13
BN5477	3
BN5486	1
BN5527	62
BN5528	59
BN5531	1
BN5532	1
BN5535	3
BN5539	1
BN5570	3

**APPENDIX 2**

**AEROMAGNETIC CONTOUR MAP, PART EL9117**



3168000N

8167500N

10007000E

797500E

1

十一

798500E  
798000E

MAGNETIC CONTROLS

Grid Mesh 40 x 40 metres  
Contour Interval 5 m

GN

STOCKDALE PROSPECTING LIMITED

A.C.N. 004 912 172

NORTHERN TERRITORY  
E5208 WAVE HILL

CATTLE CREEK  
AIRBORNE GEOPHYSICAL SURVEY

RELINQUISHED PORTION OF EL 9117  
TOTAL MAGNETIC INTENSITY CONTOURS

DATE: 18 June 1987

MAP NAME :  
MAP NO. :

PLAN NO.:

SCAL E: 1:10000

Transverse Mercator  
 AMG Zone 52  
 Central Meridian 129  
 False Easting 500000.0  
 False Northing 1000000.0  
 Scale Factor 0.9996  
 Datum AGD66  
 Major axis 6378136.0  
 Minor axis 6356775

**APPENDIX 3**  
**RGC GEOCHEMICAL ANALYSES**

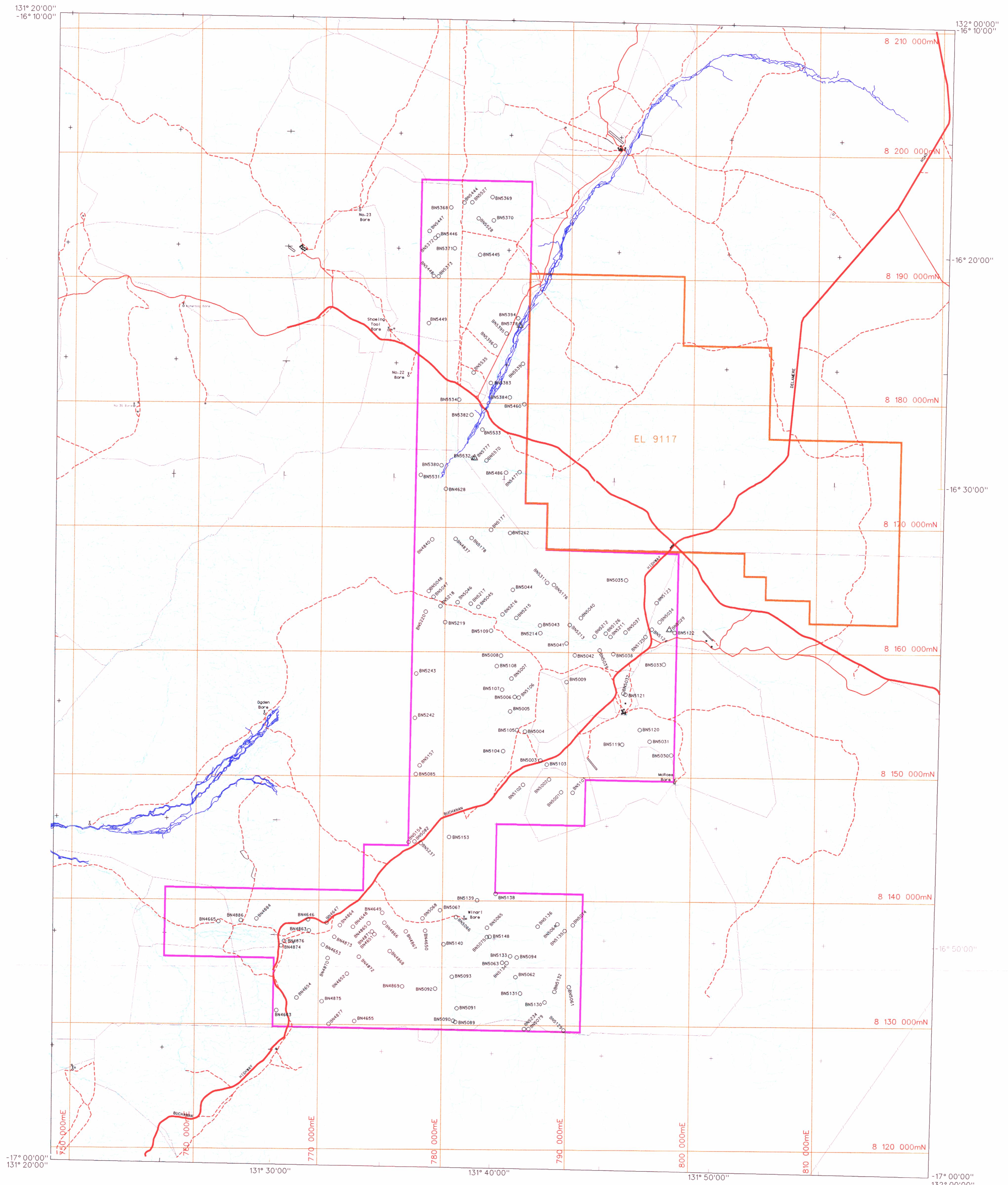
EL 9117 relinquished portion			Split		AGPPM		ASPPM		AUPPM		BAPPM		BIPPM		COPPM		FEPPC		MNPPM		MOPPM		NUPPM		PBPPM		SBPPM		ZBPPM	
BN4628	779983	81173094	Non-Magnetic	-1	33	-0.001	200	14	36	20	7.21	672	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
BN4646	76911321	81138438	Non-Magnetic	-1	84		202	7	65	16	9.44	1120	-5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
BN4647	770635	81138188	Non-Magnetic	-1	70		208	17	62	17	8.63	1200	-5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
BN4648	772783	81137868	Non-Magnetic	-1	20	-0.001	96	-5	13	12	2.6	196	-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BN4649	775140	81139006	Non-Magnetic	-1	35		241	-5	42	58	7.11	707	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN4650	775613	81137570	Non-Magnetic	-1	5		116	9	17	27	2.81	281	-5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
BN4651	774523	81137274	Non-Magnetic	-1	18		143	-5	27	28	4.72	437	-5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
BN4653	770354	81136407	Non-Magnetic	-1	48	-0.001	179	-5	47	16	7.02	893	-5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
BN4654	766253	81132136	Non-Magnetic	-1	28		252	-5	42	52	6.12	1090	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN4655	772957	81130281	Non-Magnetic	-1	10		104	-5	12	24	2.48	369	-5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BN4663	766627	81131119	Non-Magnetic	-1	30	-0.001	182	-5	38	55	6.04	616	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN4665	761885	81138249	Non-Magnetic	-1	28		217	-5	38	25	4.73	630	-5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
BN4837	780798	81169082	Non-Magnetic	-1	155		222	9	114	8	15.13	3340	6	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
BN4840	778905	81169026	Non-Magnetic	-1	49		264	14	45	20	7.34	773	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN4863	769212	81137557	Non-Magnetic	-1	13	-0.001	90	-5	15	11	2.45	202	-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BN4864	771713	81137991	Non-Magnetic	-1	113		168	13	85	18	11.53	1820	6	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN4865	774049	81138155	Non-Magnetic	-1	88		143	10	62	19	8.77	1240	-5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
BN4866	775319	81138207	Non-Magnetic	-1	24		133	11	28	32	5.05	454	-5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BN4867	777060	81137515	Non-Magnetic	-1	22	-0.001	185	9	33	57	6.07	560	-5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
BN4868	775772	81135331	Non-Magnetic	-1	17		123	-5	21	53	3.96	300	-5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
BN4869	776795	81133083	Non-Magnetic	-1	16		154	-5	24	83	4.5	469	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN4870	770751	81135339	Non-Magnetic	-1	57		180	-5	52	27	7.99	991	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN4871	774319	81137494	Non-Magnetic	-1	19		106	-5	16	17	2.77	236	-5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
BN4872	773285	81135466	Non-Magnetic	-1	11		160	-5	30	47	5.41	458	-5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
BN4873	771268	81137041	Non-Magnetic	-1	17		112	-5	21	19	3.41	325	-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
BN4874	765968	81136329	Non-Magnetic	-1	64	-0.001	247	-5	61	31	9.33	1080	-5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
BN4875	770295	81131855	Non-Magnetic	-1	24		186	-5	35	126	6	707	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN4876	757207	81136590	Non-Magnetic	-1	23	-0.001	137	-5	24	21	4.21	392	-5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BN4877	770873	81130229	Non-Magnetic	-1	39	-0.001	201	-5	41	188	6.87	826	-5	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
BN4884	764956	81138488	Non-Magnetic	-1	143	0.006	135	82	42	13.49	1690	20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
BN4886	763693	81138347	Non-Magnetic	-1	64	0.006	155	48	37	8.05	922	17	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
BN5001	789500	81148764	Non-Magnetic	-1	17		169	-5	25	49	4.13	783	-5	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
BN5002	788518	81149796	Non-Magnetic	-1	13		213	-5	24	44	3.37	2740	-5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
BN5003	787812	81151310	Non-Magnetic	-1	-5		234	-5	15	26	2.76	2820	-5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
BN5004	786537	81153642	Non-Magnetic	-1	20	-0.001	180	-5	25	39	4.31	864	-5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
BN5005	785325	81155348	Non-Magnetic	-1	38		226	-5	47	72	7.74	957	-5	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
BN5006	785641	81156411	Non-Magnetic	-1	40		200	-5	45	65	7.39	901	-5	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
BN5007	785411	81157891	Non-Magnetic	-1	42		209	-5	47	30	7.65	810	-5	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
BN5008	784547	81159720	Non-Magnetic	-1	95	-0.001	154	-5	72	17	10.21	1620	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN5009	789867	81157636	Non-Magnetic	-1	228	-0.001	154	-5	153	15	19.55	3760	12	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
BN5030	798380	81157795	Non-Magnetic	-1	9		90	-5	10	12	1.77	234	-5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
BN5031	796623	81152894	Non-Magnetic	-1	7		146	-5	12	17	2.67	389	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN5032	794465	81156749	Non-Magnetic	-1	20	-0.001	124	-5	17	26	3.37	565	-5	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
BN5033	797716	81159080	Non-Magnetic	-1	24	-0.001	112	-5	22	104	3.84	767	-5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BN5034	797347	81162486	Non-Magnetic	-1	30	-0.001	141	-5	31	29	5.76	561	-5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	

BN5035	794609	8165648	Non-Magnetic	-1	24	-0.001	177	6	27	30	4.39	960	-5	25	26	27	-5	59
BN5037	794596	8161655	Non-Magnetic	-1	88	0.012	172	-5	70	30	11.8	1660	-5	17	27	27	-5	281
BN5038	793628	8159897	Non-Magnetic	-1	80	0.012	194		52	28	8.59	863		14	12			91
BN5039	792524	8160188	Non-Magnetic	-1	40	0.01	159		36	30	6.5	678		13	5			72
BN5040	790985	8162783	Non-Magnetic	-1	93	0.009	196		63	28	10.49	1290		18	13			187
BN5041	789834	8160733	Non-Magnetic	-1	45	-0.001	126		33	21	7.04	686		12	8			84
BN5042	790511	8159777	Non-Magnetic	-1	95		213		59	31	10.3	1330		18	17			184
BN5043	787677	8162166	Non-Magnetic	-1	166		166		92	16	15.46	2480		9	13			438
BN5044	785456	8165017	Non-Magnetic	-1	36	0.002	172		37	26	6.4	562		11	11			62
BN5045	782685	8163828	Non-Magnetic	-1	26	0.001	106		18	9	3.67	318		7	5			51
BN5046	781003	8163991	Non-Magnetic	-1	164	0.003	190		90	-5	15.64	2520		18	19			394
BN5047	779055	8164414	Non-Magnetic	-1	52	0.001	198		40	9	7.52	787		10	14			120
BN5048	778675	8164883	Non-Magnetic	-1	146	-0.001	191		84	8	14.41	2240		12	17			361
BN5061	790271	8133102	Non-Magnetic	-1	19		145		-5	8	4.56	102		5				25
BN5062	785947	8133881	Non-Magnetic	-1	8	-0.001	105		-5	6	9	2.11	76		6	15		19
BN5063	784856	8135654	Non-Magnetic	-1	17		52		-5	7	11	158		198	5	8		5
BN5064	789293	81318153	Non-Magnetic	-1	8	-0.001	110		-5	18	25	2.52	450		5			55
BN5065	783605	8137849	Non-Magnetic	-1	25	-0.001	209		-5	27	35	4.36	831		5			58
BN5066	781097	8138689	Non-Magnetic	-1	20	-0.001	158		-5	28	54	5.11	377		5			38
BN5067	779804	8138927	Non-Magnetic	-1	11	-0.001	100		-5	15	30	3.01	218		6			5
BN5068	778394	8138575	Non-Magnetic	-1	16		145		-5	21	65	4.81	326		5			42
BN5074	790548	8138084	Non-Magnetic	-1	13	-0.001	131		-5	18	16	2.53	354		30	11		45
BN5075	783597	8137092	Non-Magnetic	-1	9	-0.001	50		-5	5	12	2.63	99		5			22
BN5079	787031	8129722	Non-Magnetic	-1	12	-0.001	170		-5	16	11	4.2	1090		5			27
BN5082	777694	8144748	Non-Magnetic	-1	14	-0.001	112		-5	18	48	3.47	316		5	8		30
BN5089	781106	8130251	Non-Magnetic	-1	6		73		-5	9	8	1.45	201		5	7		18
BN5090	780926	8130351	Non-Magnetic	-1	11		87		-5	14	10	2.94	493		5	13		38
BN5091	781213	8131352	Non-Magnetic	-1	13		58		-5	9	12	1.71	227		5	7		20
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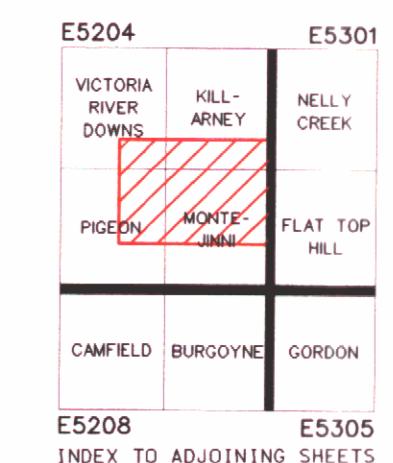
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