STOCKDALE PROSPECTING LIMITED

PINE CREEK AREA

EXPLORATION LICENCES 9626 and 9628

ANNUAL REPORT FOR THE PERIOD 04-11-96 TO 03-11-97

A.K.BERRYMAN
SECTIONAL GEOLOGIST
NOVEMBER 1997

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CR 98/374

Stockdale Prospecting Limited

a De Beers company

Project Name: UPPER DALY

Title: Pine Creek Area
Exploration Licences 9626 and 9628
Annual Report for the period 04-11-97 to 03-11-97

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Abstract: Exploration within EL's 9626 and 9628 involved the collection of 109 heavy mineral samples. A number of non-kimberlitic chromites were recovered, and these can be attributed to either the Edith River Volcanics or the Antrim Plateau Volcanics. Chromites recovered from one sample on EL9626 appear to be anomalous and will require further infill and follow up sampling in the second year of teuure.

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SUMMARY

Exploration Licences:	9626 and 9628	
Date Granted:	4th Novemberber 1996	
Area:	9626	9628
	159 blocks (512sq.km)	150 blocks (483 sq.km)
Occupant:	Stockdale Prospecting Limited	
Operator:	Stockdale Prospecting Limited	
Commodities Sought:	Diamonds	
Exploration: mineral	Exploration within EL's 9626 and 9628 involved the collection of 109 heavy samples. A number of non-kimberlitic chromites were recovered, and these can be attributed to either the Edith River Volcanics or the Antrim Plateau Volcanics. Chromites recovered from one sample on EL9626 appear to be anomalous and will require further infill and follow up sampling in the second year of tenure.	

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STOCKDALE PROSPECTING LIMITED
PINE CREEK AREA
EXPLORATION LICENCES 9626 AND 9628
ANNUAL REPORT FOR THE PERIOD 04-11-96 TO 03-11-97

1. INTRODUCTION

Exploration Licences 9626 and 9628 are located on the Fergusson River 1 : 250,000 mapsheet, some 40km and 60 km south of Pine Creek respectivly. (Map 1).

During the period 04-11-96 to 03-11-97, Stockdale Prospecting Limited conducted a programme of helicopter assisted heavy mineral reconnaissance sampling. Exploration procedures and sample results are detailed in this report.

2. TENURE

Tenure details for exploration licences 9626 and 9628 are listed in Table 1.

TABLE 1 : TENURE

LICENCE	APPLICATION DATE	DATE GRANTED	AREA (BLOCKS)	AREA (SQ.KM)
9626	24-07-96	04-11-96	159	512
9628	24-07-96	04-11-96	150	483

Stockdale Prospecting Limited is both the occupant and operator of exploration licences 9626 and 9628. Common reporting for these licences was granted by the NTDME on the 10th of November 1997.

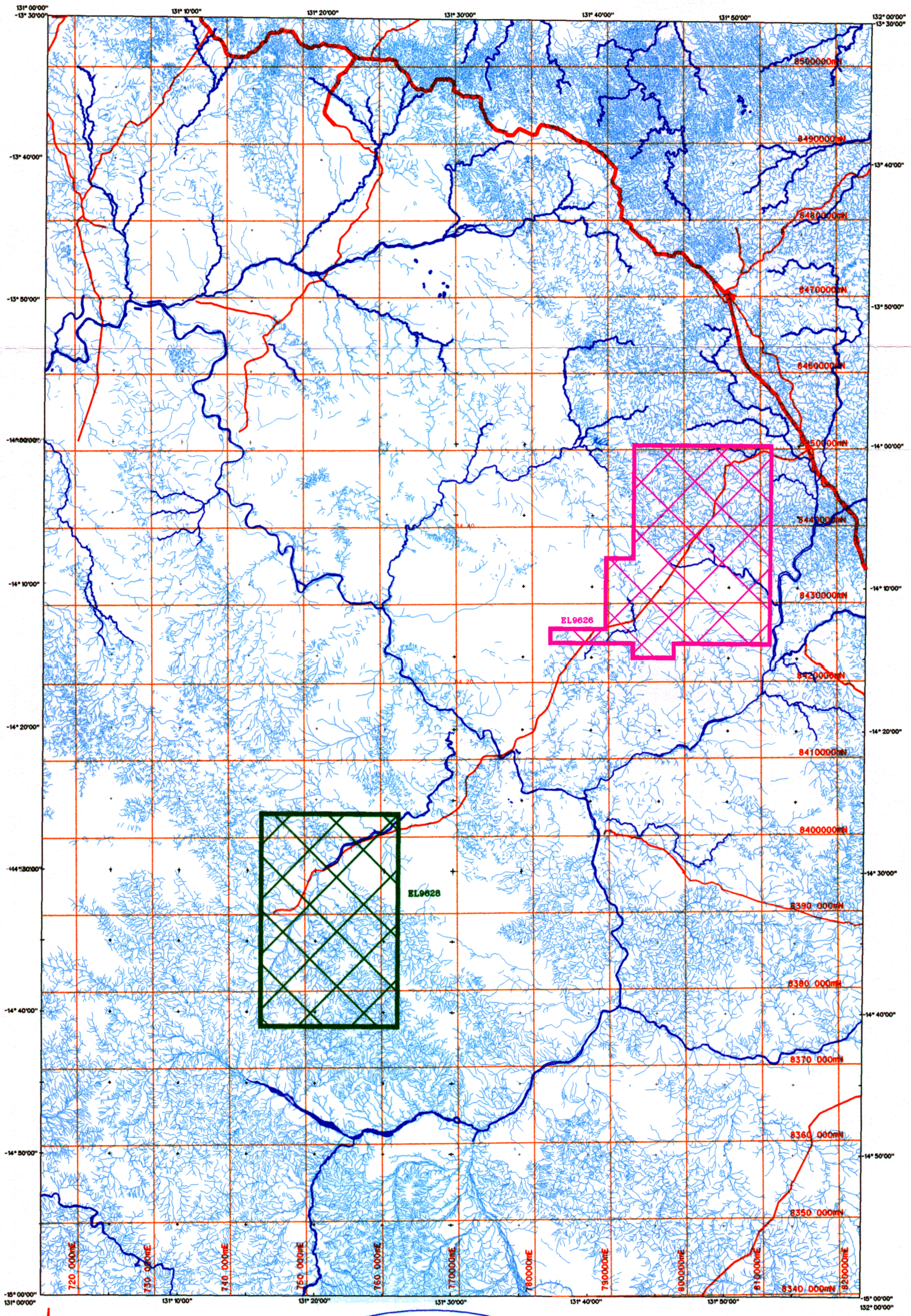
3. PHYSIOGRAPHY / GEOLOGY (after Pontifex and Mendum 1972)

The oldest geological unit found within EL9626 is the Burrell Creek Formation, which consists of siltstones, greywacke and meta-sediments. This unit is surrounded by the Carpentarian Cullen Granite and the Edith River Volcanics. The Buldiva Sandstone (in particular the Depot Creek Sandstone Member) crops out along the western margin of the granite.

The licence is dominated by calcareous Cambrian / Ordovician Daly River Group sediments. Oolloo Limestone, the Jinduckin Formation and Tindall Limestone have all been identified within the licence area. Most of the limestone is covered by black soil and alluvium derived from the Cretaceous Mullaman Beds.

The Dorrisvale Fault is the structural boundary between the Cambrian Daly River and Proterozoic Victoria River Basins, and cross cuts EL9628. On the western side of the fault, sediments from both the Bynoe and Banyan Formations have been identified. Both are part of the Bullita Group. Antrim Plateau Volcanics unconformably overlie the Proterozoic sediments on the western side of the fault. The eastern half of the licence is dominated by the Cambrian Jinduckin Formation and Quaternary black soil.

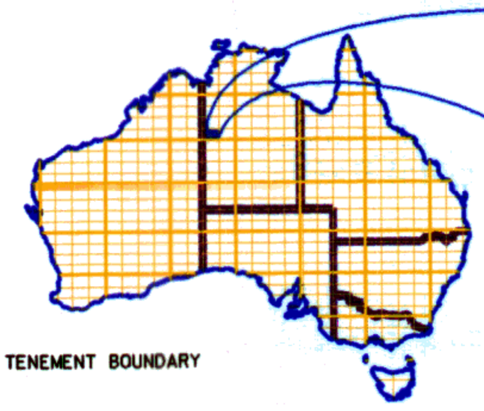
Both licences are prodominantly located within the Daly River Basin physiographic unit, although the north eastern corner of EL9626 falls within the Cullen Plains unit. The area consists of flat and sparsely vegetated plains created primarily by the Daly, Fergusson and Flora Rivers.



MAP 1

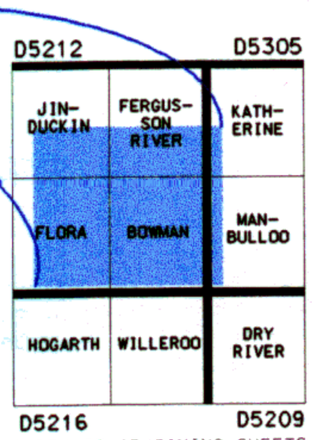
TN

Transverse Mercator
AMG Zone 52
Datum AGD66



EL9626 TENEMENT BOUNDARY

EL9628 TENEMENT BOUNDARY



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A.C.N. 004 912 172

NORTHERN TERRITORY
D5215 AUVERGNE 1:250.000

ANNUAL REPORT FOR EL9626 & EL9628

LOCATION MAP

Compiled	B.D
Drawn	CJH
Date	18/11/97
Scale	1:250.000
Revised	

4. EXPLORATION

4.1 RECONNAISSANCE SAMPLING

A total of 109 heavy mineral reconnaissance samples was collected during over both tenements. Sample numbers are as follows:

EL9626

BT0501-13	(13)
BT0516	(1)
BT1440-44	(5)
BT1451	(1)
BT1464-1500	(37)
TOTAL	57

EL9628

BT0401-14	(14)
BT0416-20	(5)
BT0425	(1)
BT0428-33	(6)
BT0435-60	(26)
TOTAL	52

4.2 SAMPLE RESULTS

Chromites were recovered from a number of heavy mineral samples. Table 2 lists sample results.

TABLE 2: SAMPLE RESULTS

SAMPLE	EL	RESULT	SAMPLE	EL	RESULT
BT0440	9628	1 Chromite	BT1470	9626	24 Chromites
BT0442	9628	1 Chromite	BT1471	9626	2 Chromites
BT0446	9628	3 Chromites	BT1474	9626	6 Chromites
BT0447	9628	2 Chromites	BT1476	9626	1 Chromite
BT0448	9628	8 Chromites	BT1477	9626	10 Chromites
BT0449	9628	1 Chromite	BT1479	9626	8 Chromites
BT0501	9626	4 Chromites	BT1481	9626	3 Chromites
BT0504	9626	7 Chromites	BT1482	9626	1 Chromite
BT0505	9626	27 Chromites	BT1483	9626	1 Chromite
BT0506	9626	14 Chromites	BT1484	9626	24 Chromites
BT1441	9626	11 Chromites	BT1485	9626	1 Chromite
BT1442	9626	40 Chromites	BT1490	9626	1 Chromite
BT1443	9626	> 50 Chromites	BT1492	9626	2 Chromites
BT1444	9626	3 Chromites	BT1493	9626	> 50 Chromites

Most of the chromites recovered can be directly attributed to either the Antrim Plateau Volcanics (EL9628), or the Edith River Volcanics (EL9626). None of the grains appear to be kimberlitic. The chromites within BT0501, and to a lesser extent BT0504, appear to be a little different. Although this difference may be due to the influence of the Burrell Creek Formation, the grains are of sufficient interest to warrent further investigation.

5. EXPENDITURE

Expenditure for EL's 9626 and 9628 during the reporting period was $89,105, as allocated in Table 3.

TABLE 3: EXPENDITURE EL9626 and 9628

	EL9626	EL9628
OPERATIONAL STAFF COSTS	8,343	7,964
GENERAL OPERATIONAL EXPENSES	1,797	1,715
TRANSPORT AND TRAVEL	10,724	10,236
TENEMENT COSTS	4,029	3,846
CENTRAL TREATMENT PLANT	7,280	6,950
LAB TREATMENT	1,422	1,357
LAB EXAMINATION	3,188	3,043
DRAFTING	550	525
REGIONAL ADMINISTRATION	3,426	3,270
HEAD OFFICE ADMINISTRATION	3,868	3,692
CAPITAL EXPENSES	962	918
TOTAL	45,589	43,516

6. FORWARD WORK PROGRAMME

The area within the immediate vicinity of BT0501 will require some infill and follow up heavy mineral sampling. On this basis, all chromites within both EL9626 and 9628 will be further evaluated to assertain whether any additional grains appear to be anomalous. This work is only expected to take a couple of days during the second year of tenure. Proposed minimum expenditure for this work is outlined in Table 4.

TABLE 4: PROPOSED EXPENDITURE, SECOND YEAR OF TENURE

	EL9626	EL9628
OPERATIONAL STAFF COSTS	2,500	500
GENERAL OPERATIONAL EXPENSES	210	120
TRANSPORT AND TRAVEL	1,800	750
TENEMENT COSTS	1,590	1,500
CENTRAL TREATMENT PLANT	1,050	550
LAB TREATMENT	750	250
LAB EXAMINATION	600	200
REGIONAL ADMINISTRATION	1,000	800
HEAD OFFICE ADMINISTRATION	500	330

TOTAL	10,000	5,000

7. REFERENCES

Pontifex, I.R. and Mendum, J.R., 1972. *Fergusson River 1:250,000 Geological Series - Explanatory Notes.* BMR Australia.

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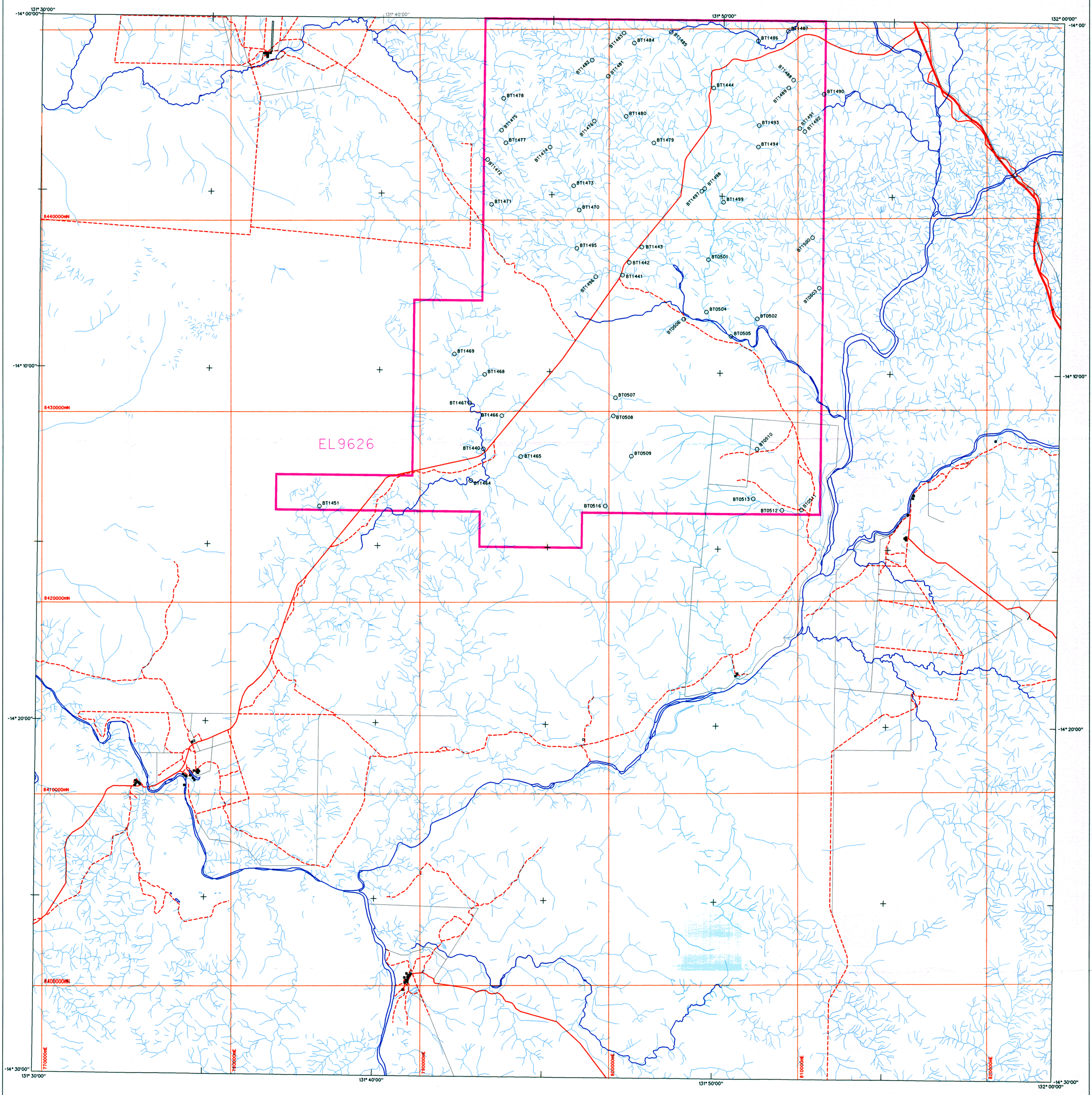

0 2 4 6 8 10KM

SAMPLE LISTING

BT0501-BT0506
BT0509
BT0511-BT0513
BT0516
BT1440-BT1444
BT1451
BT1464-BT1465
BT1467-BT1500
BT0507-BT0508
BT0510
BT1466
Total 57

ANALYSED SAMPLES

- STREAM SAMPLE
- LOAM SAMPLE
- ROCK SAMPLE
- BARRAGE SAMPLE
- BULK SAMPLE
- DRILL SAMPLE
- TRENCH SAMPLE
- UNCLASSIFIED
- PIMA
- GEOSTREAM
- EL9626 TENEMENT BOUNDARY

TN
Transverse Mercator
AMG Zone 52
Datum AGD66

D5208		D5305
TIPP-ERARY	PINE CREEK	RANFORD HILL
JINDUCKIN	FERGUS-SON RIVER	KATHERINE
FLORA	BOWMAN	MAN-BULLOO

D5212 D5309
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MAP 2

STOCKDALE PROSPECTING LIMITED
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NORTHERN TERRITORY
D5215 AUVERGNE 1:250,000

ANNUAL REPORT FOR EL9626

SAMPLE LOCATION

Compiled	D.O
Drawn	CJH
Date	18/11/97
Scale	1:100,000
Revised	
SEL	UPPERDA02

FILES:
UPPERDA02.BAS.SAM
D5212: CUL. DRN

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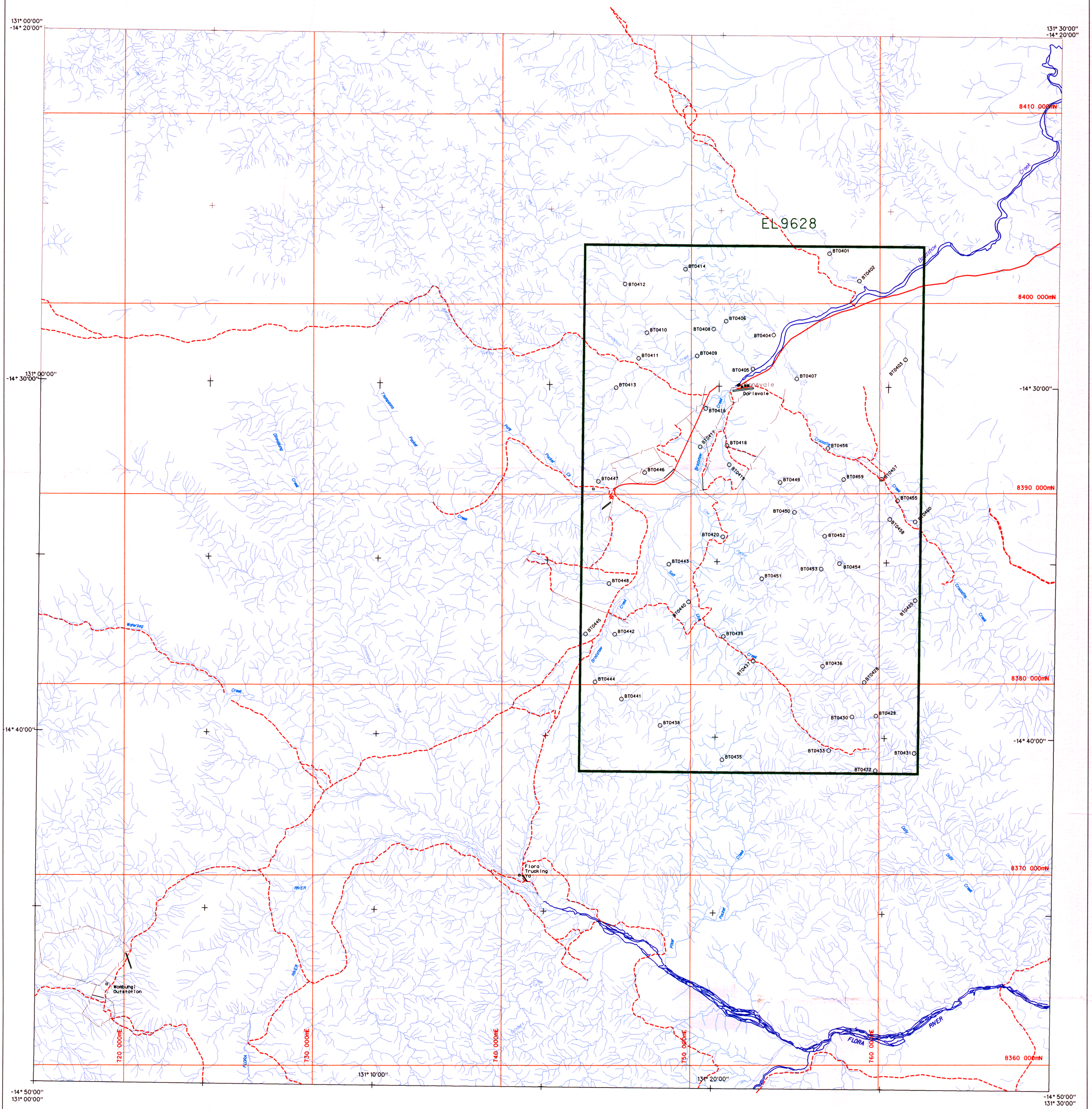

SAMPLE LISTING

BT0401-BT0414
BT0416-BT0420
BT0425
BT0428-BT0433
BT0435-BT0456
BT0459-BT0460
BT0457-BT0458
Total 52

ANALYSED SAMPLES

- STREAM SAMPLE
- LOAM SAMPLE
- ROCK SAMPLE
- BARRAGE SAMPLE
- BULK SAMPLE
- DRILL SAMPLE
- TRENCH SAMPLE
- UNCLASSIFIED
- PIMA
- GEOSTREAM
- EL9628 TENEMENT BOUNDARY

TN
Transverse Mercator
AMG Zone 52
Datum AGD66

D5212

WINGATE MOUN-TAINS	JIN-DUCKIN	FERGUSS-ON RIVER
BARWOLLA	FLORA	BOWMAN
IKYMBON	HOGARTH	WILLEROO

D5216

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CR98/34

MAP 3

STOCKDALE PROSPECTING LIMITED
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NORTHERN TERRITORY
D5215 AUVERGNE 1:250,000

ANNUAL REPORT FOR EL9628

SAMPLE LOCATIONS

Compiled	D.O
Drawn	CJH
Date	18/11/97
Scale	1:100,000
Revised	
SEL	UPPERDA03

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