OPEN FILE



CONTENTS cont.

	Seci
Report on Authority to Prospect 83, Dorisvale Station, N.T. - Introduction - Exploration Activities - Conclusions	3
Bore Logs- Dorisvale N.T. - Hole 1 - Hole 2 - Hole 3	3
Prospecting Authority No. 2377- Report for Year Ending 17 August, 1972	3
Letter- Re: Prospecting Authority 2377- Report for Feb, 1972	3
Letter- Re: Surrender Report- EL 22530- Eukedra Diamonds NL	3
Geochemical Programme	4
Letter- Re: Prospecting Authority 2377- July Report	5
Letter- Re: Prospecting Authority 2377- August Report	5
Letter- Re: Prospecting Authority 2377- Report for Year Ending 17 August, 1972	5
Prospecting Authority No.2377- Report for Year Ending 17 August, 1972	5
Prospecting Authority No.2377- March Report 1972	5

CONTENTS

 	Sect.
Letter- Re: Prospecting Authority No. 2377 February Report, 1972	1
Letter- Re: Dorisvale Barites (Dated 5 th August, 1970)	1
Letter- Re: Dorisvale Barites (Dated 14 th May, 1971)	1
Letter- Re: Authority to Prospect No. 2377	1
General Report on Dorisvale Barite Prospect N.T AP 2377 - Summary - Introduction - Diamond Drilling - Costeaning - Mapping and Contouring - Results of Laboratory Testing - Geological Discussion - Conclusions and Recommendations	1
Geochemical Program	2
Letter- Re: Authority to Prospect 2377- Report for April, 1970	3
Letter- Re: Authority to Prospect 2377- Report for Oct, 1970	3
Letter- Re: Authority to Prospect 2377- Report for Nov, 1970	3
Letter- Re: Authority to Prospect 2625- Report for Nov, 1970	3
Letter- Re: Authority to Prospect 2625- Report for Dec, 1970	3
Letter- Re: Authority to Prospect 2664- Report for Nov, 1970	3
Letter- Re: Authority to Prospect 2664- Report for Dec, 1970	3
Letter- Re: Authority to Prospect 2377- Report for Dec, 1970	3
Page 2 (unknown)	3

LIST OF MAPS

	Sect
Authority to Prospect 2377- Sheet E No. 1	1
Authority to Prospect 2377- Sheet E No. 2	1
Authority to Prospect 2377& Legend No. 1	1
Authority to Prospect 2377- Figure 1	3
Authority to Prospect 2377& Legend No. 2	3
Geochemical Results- QTD 11	5
Geochemical Results- QTD 12	5

CR1025



MINERAL DEPOSITS LIMITED

(INCORPORATED IN NEW SOUTH WALES)

81 ASHMORE ROAD, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

M26.

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA.40438

DAR/sas

OPEN FILE

8th March, 1972.

Director of Mines,
Mines & Water Resources Branch,
DARWIN, N.T. 5790.

Dear Sir,

re: Prospecting Authority No.2377 - February Report 1972:

During February the wet conditions prevailing in this area did not permit field work.

A review of geochemical sampling results continued during February. Attached please find copies of all geochemical results obtained to date. Also attached please find a geological cross section, strategraphic column, and A. to P. map indicating all barite occurrences and geochemical sample locations. A map showing the geochemical grid of the Thompsons Pocket B Area is currently in preparation and will be submitted when completed.

DAVID A. RHOADES,
MINERAL DEPOSITS LIMITED

David a Phooder

For: D. Drake.

c.c. Mr. D. Drake,

. Mr. D. Drake, Darwin.





81 ASHMORE ROAD, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA.40438

2625.

CON/MG

August 5, 1970

The Administrator, Administrative Branch, Department of Territories, MitcKell Street, 5790 DARWIN. N.T.

Attention:

Mr. Martin Finger

Assistant Administrator

Dear Sir,

DORISVALE BARITES.

This Company has entered into an agreement with Messrs. Drake, Moar and Casey, holders of various Prospecting Authorities and Lease Applications, to conduct prospecting and mining operations on the areas so held.

For the last ten months this Company has carried out a most active prospecting campaign as a result of which we have spent over \$35,000 direct expenditure, and have estimated the reserves of barites at 1,415,000 tons. Additional prospecting is expected to increase the reserves. The quality of the barites is excellent and it will be most satisfactory for grinding for oil and gas drilling muds.

The Company is confident of establishing business for the export of run of mine ore from Darwin to Singapore. Also, it believes that there is a good chance of establishing a grinding mill near Darwin for the grinding of barites and its export in a fully processed condition.

4,000 TON SHIPMENT OCTOBER - NOVEMBER, 1970

As the first step in the exploitation of the barites deposits, the Company wishes to mine barites at the Pony Pocket Bore lode and to transport it by road to Pine Creek - a distance At a location adjacent to the rail at Pine of 81 miles. Creek a stockpile will be built up, subsequently railed to Darwin and loaded over the iron ore installation into a charter vessel.

Such a consignment would not only introduce the Northern Territory material to the market but would permit a close The Administrator,
Department of Territories.

-2-

August 5, 1970

evaluation of unforeseen mining difficulties and costs.

This consignment has three pre-requisites:-

(a) Ship

We have to obtain a suitable charter and advise the Administration that we wish to proceed.

(b) Road.

The road from Dorisvale Homestead to the Daly River - distance 18.8 miles - contains patches of sand totalling about 3 miles which are only trafficable to light traffic. It is necessary for these sections to be gravelled to carry semi-trailer tippers hauling 25 ton. It is requested that the Department of Works arrange for the necessary repairs on our advice that we have a ship.

The road from Dorisvale Homestead to the Pony Pocket orebody, a distance of $5\frac{1}{2}$ miles, requires grading and attention to creek crossings.

The Company will have this work done at its own expense. To save the added cost of bringing plant to the aréa, the Company would like to have the work done by the Plant of the Department of Works, or of its Contractor.

(c) Schedule

The Company will advise the Northern Territory Administration not later than Monday, August 10, of its wish to proceed with the first shipment. Should we wish to proceed we would have to start carting not later than Monday, September 7. Our Contractor for mining and carting will be Henry & Walker Pty.Ltd., P.O. Box 1973, Darwin.

On this basis the Department would have three weeks in whichto complete the work. I would appreciate your advice if this is out of the question.

PRODUCTION FROM 1971

The reserves and the market indicate that the annual production of run of mine ore and ground barites will be between 30,000 and 50,000 tons. At the higher figure the life of the deposits will exceed 28 years.

The current price for run of mine barites F.O.B. Darwin is around \$A. 20.00. It will be seen that transportation costs from mine to rail at distances varying from 82 miles to 100 miles will control the economics of these orebodies.

........../3

Highly efficient, low cost per ton mile trucking is required and it will be necessary to have roads of a standard which will permit the dry weather operation of road trains comprising a bogie drive truck and two bogie/bogie dogs with a total payload of 70 ton (assuming a load limit of 16 ton per bogie).

Commonly the crossing of the Daly River is not trafficable for 4½ months during the 'Wet." This, coupled with the uncertainty of early and late storms, is a most serious and frustrating difficulty. The Company's needs would be met reasonably if a low level structure was provided so that a flow of 5 feet over the present river bed width could occur before overtopping commenced.

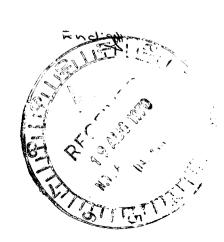
It is requested that the Administration investigate the most satisfactory and economic way of providing a road to the required standard from the Stuart Highway to the Thompson's Pocket turn off, approximately 8 miles south of Dorisvale Homestead. This road has a length of 69 miles and is marked on the accompanying copy of the Fergusson River Sheet.

The Company is doing a feasibility study of the mining, transportation, milling and shipping of barites from the Dorisvale area. A most crucial part of this is the matter of road and transportation costs. Therefore, we request a discussion in Darwin with your appropriate Officers when investigation into the road is complete.

Yours faithfully, MINERAL DEPOSITS LIMITED

C. O. Newey

Director of Mining





MINERAL DEPOSITS LIMITED

(INCORPORATED IN NEW SOUTH WALES)

81 ASHMORE ROAD, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA.40438

CON: DAY

AS

14th May 1971

Mr. M. R. Finger,
Assistant Administrator,

Northern Territory Administration,

Mitchell Street,

DARWIN. N.T. 5790

20.5-71 11/1,

Dear Sir,

Re Dorisvale Barites

I refer to correspondence and discussion with you concerning this Company's plans to mine near Dorisvale and to export bulk barites ore in 10 - 15,000 ton shipments using the iron ore belt conveyor installation. The Company also planned to construct, at a later date, a grinding mill and to export ground barites.

In February last the Commonwealth Railways advised that they could not handle barites ore to the Port for shipments of up to 15,000 tons.

It is therefore apparent that our proposal must wait on the completion of the East Arm installation and we made representation to the Standing Committee on Public Works to allot to us an area served by one of the bulk reclaimers.

We have no doubt that the Dorisvale deposits will be mined when the capacity exists to export bulk ore in reasonable tonnages. However, there still remains the road from the Daly River crossing, both of which make the transport of ore difficult and costly.

It is requested that the Administration investigate these two matters as previously requested.

Yours faithfully, MINERAL DEPOSITS LIMITED

c. O. Newey

Manager - Planning & Development

mino: - i Robostat copy altoured to Fire, Tolybor, out opio 16.

יודופודג



MINERAL DEPOSITS LIMITED

(INCORPORATED IN NEW SOUTH WALES)

55 BRIGHTON PARADE, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44 SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

Martin Finger, Esq.,
Acting Administrator,
DARWIN N.T. 5790

Dear Sir,

Dorisvale Baryte Deposit, N.T. - AP 2377

My Company, Mineral Deposits Ltd., has taken an option on the above AP 2377 owned by Messrs. Moar, Casey and Drake, with a view to testing and developing baryte deposits which occur within the AP and some 12 miles westward of Dorisvale Station.

- 2. Mineral Deposits Ltd. are acting for Baroid of Australia Pty. Ltd., both companys being subsidiaries of National Lead Co. of America. The Baroid Division of National Lead Company has been a major provider of technical drilling services and supplies of drilling muds and catalysts to the oil industry since its infancy.
- 3. It is hoped that we will be able to develop a supply of barytes for oil search and drilling activities in north Australia and south East Asia. Other usages for baryte are in paint manufacture and in the chemical industry.
- 4. We aim to establish minimum reserves of barytes on which to base a mining operation. Physical testing of the Dorisvale baryte deposits was begun in November. Geological mapping and some diamond drilling has already been completed but more testing work is required and the programme is to be continued after the "Wet". Initially an annual production target of 10-15,000 long tons of barite is envisaged which hopefully will increase to 30,000 tons per year as demand grows in S.E. Asian and north Australian off-shore areas.
- 5. A feasibility study will be initiated to examine the economics of mining, beneficiating, transporting, milling and shipping baryte out of Darwin. Beneficiation could be accomplished at the mine site or at the Daly River crossing.
- freight cost on the product when compared with other world deposits. Transport from mine to railhead will involve 84 miles of bush track and recently formed road. The Daly River unless properly bridged will curtail carting operations during the "Wet". A road to rail truck loading facility will be necessary at Cullen siding and unloading and re-loading facilities will be required at the Company's Darwin mill site.

MW5.

P.O. Box 469, DARWIN. 5th. August. 1970.

Director of Mines & Water Resources. Northern Territory Administration, DARVIN - N.T.

WIRBICANS.

Dear Sir.

ret AUTHORITY TO PROSPECT NO. 2377

We hereby apply for renewal of the Authority to Prospect over the whole area covered by the above A.P., namely 240 square miles, for a further period of twelve calendar months as from midnight on the 17th. instant.

From reports submitted to you covering our activities and through our working arrangement with Mineral Deposits Limited, it will be noted that a great deal of work has been carried out, particularly in the Pony Pocket and Thompsons Pocket areas, where some thirteen dismond drill holes were drilled and extensive costeaning was done with the view to determining the volume of the deposits.

It is from these particular areas that the Mining Company is basing its feasability study and planning for the commencement of mining with the view to establishing a barytes industry in the Northern Territory.

Already, two mineral leases have been applied for in these areas, and it is hoped that a trial shipment of ore will shortly be made to Singapore for processing. Should the feasability study prove successful, it is intended to set up a processing plant close to Darwin.

In addition to the above, considerable prospecting has been carried out by the Mining Company's geological team in company with our Mr. Moar, and we are pleased to report that further lodes of barite have been discovered, and in particular, one very extensive deposit in the Piker Pecket Creek area, with indications of this lode extending to the south easterly section of A.P. 2377.

Although aerial reconnaissance has been carried out over the .. entire area of the A.P., the terrain in certain sections is such that surface inspection may have to be done by horseback and pack-horse, and perhaps helicopter, and this is now being seriously considered.

Should there be any further information required, you will no doubt contact the writer, who will give any important matters his immediate attention.

Yours faithfully,
Douglas Drake.

Agent for D. Drake, P. Mear and W. E. Casey.

Cheque for the amount of \$240.00 is enclosed herewith. Encl.



GENERAL REPORT ON DORISVALE BARITE PROSPECT

NORTHERN TERRITORY

AP 2377

1. G - JHONSON

SUMMARY

Following a three month exploratory programme involving diamond drilling, costeaning and mapping, reserves of barite totalling 1,415,000 tons have been estimated. Two leases have been applied for totalling 61.6 acres to cover 202,000 tons of barite in the Pony Pocket Bore area.

Expenditure on the recent diamond drilling programme was approximately that budgeted for (19,000).

The total direct expenditure on the Dorisvale Prospect is approximately \$33,000.

INTRODUCTION

The original diamond drilling programme was centred in Thompson's Pocket. Ten holes were planned totalling 1,180 feet of drilling. Nine holes totalling 1,019 feet were actually drilled; five holes drilled in Thompson's Pocket and four holes in Pony Pocket.

An earth-moving company was contracted to do 100 hours of bulldoser work with a Caterpillar D8 testing ripability of country rock and barite and checking outcrops by costeaning.

Two previously unknown areas of barite outcrop were discovered viz. Pony Pocket and Pikers Pocket.

A seismic survey was carried out by Hastings Deering Queensland Pty Ltd. The information from the report from Hastings Deering has no bearing geologically. Information obtained is of an engineering nature.

DIAMOND DRILLING

Ausdrill Pty Ltd of Darwin provided a diamond drill rig for the duration of the programme. The progress made by the drillers was satisfactory but the condition of the drilling rig, spare parts and back-up service from the base in Darwin left much to be desired.

Two areas were drilled:

(1) Thompson's Posicet Area.

Five holes were drilled along a single outcrop. Drill hole at Site F+10 was renamed Site Zero and holes were spaced along the outcrop on each side of Site Zero.

At Site Zero a fan of two diamond-drill holes during the initial drilling programme in 1969 showed barite with a true width of about 8 feet dipping near-vertically to 100 feet below the surface. Of the holes drilled during the second programme in Thompson's Pocket area DDH 1200 N intersected $6\frac{1}{2}$ feet of barite the core of which was recovered successfully and DDH 800 S intersected 4 feet of barite in a shattersone but only 6 inches of this was recovered. Traces of barite occurred in the other holes drilled but no cores were obtained.

This lack of success could be attributed to the difficult type of material through which the diamond-drill was boring. It is obvious from the results that small diameter diamond-drilling is not the most favourable means of achieving success in areas where the weathering profiles extend below target depths.

The following is a table showing diamond drilling in Thompson's Pocket:

THOMPSON POCKET AREA

D DH		Barite Intersection	Total Depth	Remarks
8 00n	41°		142'	Trace of barite at 891
1200N	40°	5416" - 611	127'	Trace width 4.2 feet.
800s	40°	71'6" - 75'6"	1301	Highly shattered zone, only 6" of barite re- covered in core. True
12008	710°	-	<u> </u>	width 2.6 feet.
21±00s		-	991	Trace of barite 47 feet.
			6091	

(2) Pony Pocket Bore Area.

Following the discovery of a wide and seemingly highgrade outcrop of barite in an area closer of Dorisvale Station, the original drilling programme was abandoned and the investigation was then centred on Pony Pocket Bore Area where the outcrop averaged about 8 feet wide for 2,000 feet long.

Four holes were drilled:

PONY POCKET BORE AREA

(
DDH		Barie Intersection	Total Depth	Remarks
Zero(1) (2) 400E 800W	65° 55° 55°	57'9" - 69'9" 79' - 109' 58' - 104'	120° 110° 96°	True width 7.9 feet. True width 16.8 feet. True width 26.2 feet. Traces barite at 50' and 81'

Although DDH 800 W was drilled into a continous section of outerop no barite was encountered. This was the last hole of the programme and at this stage the diamond-drilling rig was vibrating excessively. This may be the factor responsible for the failure to core barite that may have been intersected. Two pits dug on each side of the outerop by the bulldozer within 150 ft. of the drilling site indicated that the barite continued without thinning down to at least twelve feet.

COSTEANING

Costeans were cut across lines of suspected outcrops in both Pony Pocket Black Soil Area and Thompson's Pocket Area resulting in the extension of known outcrops. Pits were also dozed along the edge of outcrops in Thompson's Pocket and Pony Pocket to test ripability and to provide additional information on the depth of the barite.

MAPPING AND CONTOURING

All known outcrops of barite in the Dorisvale area have been mapped, i.e.

(1) Thompsons Pocket "A" Area.

(2) Thompsons Pocket "B" Area.

(3) Thompsons Pocket Fence Creek Area.

(4) Pony Pocket Bore Area. (5) Pony Pocket Yard Area.

(6) Pony Pocket Black Soil Area.

(7) Pikers Pocket Area.

Contouring of Thompsons Pocket "A" and "B" Areas has been completed.

The relief in the Pony Pocket Bore Area was not great enough to warrant contouring.

ESTIMATED BARITE RESERVES, DORISVALE - NORTHERN TERRITORY

Area,	Dimensions Length	(ft) Breadth			Classification	
Pany Posket Bore	800	n	100	100,000	Measured	
	1020	8	100	102,000	Indicated	
u u Yard ∪	600	8	100	60,000	Inferred	
" Black Soil	1440	8	100	000ءبليلا	Inferred	
Pikers Posket	5760	8	100	576,000	Inferred	
Thompsons Pocket Fence Creek	630	8	100	63,000	Inferred	
nVa	2600	14	100	130,000	Indi cated	
ngn U	2400	8	100	270,000	Inferred	

The estimated total reserves of barite is 1,415,000 tons.

RESULTS OF LABORATORY TESTING

The A.P.I. Specification for Oil-Well Drilling-Fluid Materials states a Specific Gravity of 4.2 minimum for barite. The average Specific Gravity for samples taken from Pony Pocket Bore Area is 4.4. The silica and strontium content for the samples are 1.6% and 1.4% respectively.

The average Specific Gravity of the cores from Thompsons Pocket obtained during the initial diamond-drilling programme is 4.38.

- 5 -

The result sheet for samples taken from core of DDH Zero (2) and DDH hOO E is attached as Appendix "A".

GEOLOGICAL DISCUSSION

The barite outerops found in the area under discussion have strikes ranging between 300° magnetic and 330° magnetic. The dip of the barite is near-vertical.

In Thompson's and Pony Pockets the barite is occurring in the flat-lying Antrim Plateau Volcanics and the Bynos Formation. An unconformity exists between these two units. The resks in which the barite occurs were originally mapped as Waterbeg Creek Formation, however some doubt still exists as to what formations occur in Thompsons Pocket and it is probable that all three are involved.

The Dorisvale Fault is likely to be associated with the implacement of the barite in Pony Pocket. At this stage it seems as though the barite is implaced by Hydrothermal solutions, the temperatures associated with the implacement were relatively low as there was no alteration between the someoff of the barite and the country rock. At Pikers Pocket the barite occurs in limestone and again there is no evidence of high temperatures.

(High temperature Solitably etc. Solitably etc. Solitably etc. Solitably etc.)

Most of the faulting in the Borisvale Area appears to have a common trend and it is very likely that the barite in Thompson's Pocket and Pikers Pocket is also from hydrothermal solutions which have travelled along somes of weakness caused by faulting.

CONCLUSIONS & RECOMMENDATION

These barite deposits are unique because although they are hydrothermal deposits and extend over long distances the smount of contamination with other minerals is negligible. The widths of the outcrops are from inches to thirty feet. The depths of the veins have been shown to be greater than one hundred feet.

Small outgrops have been located every from areas mapped and these also could prove to be surface expressions of large buried deposits.

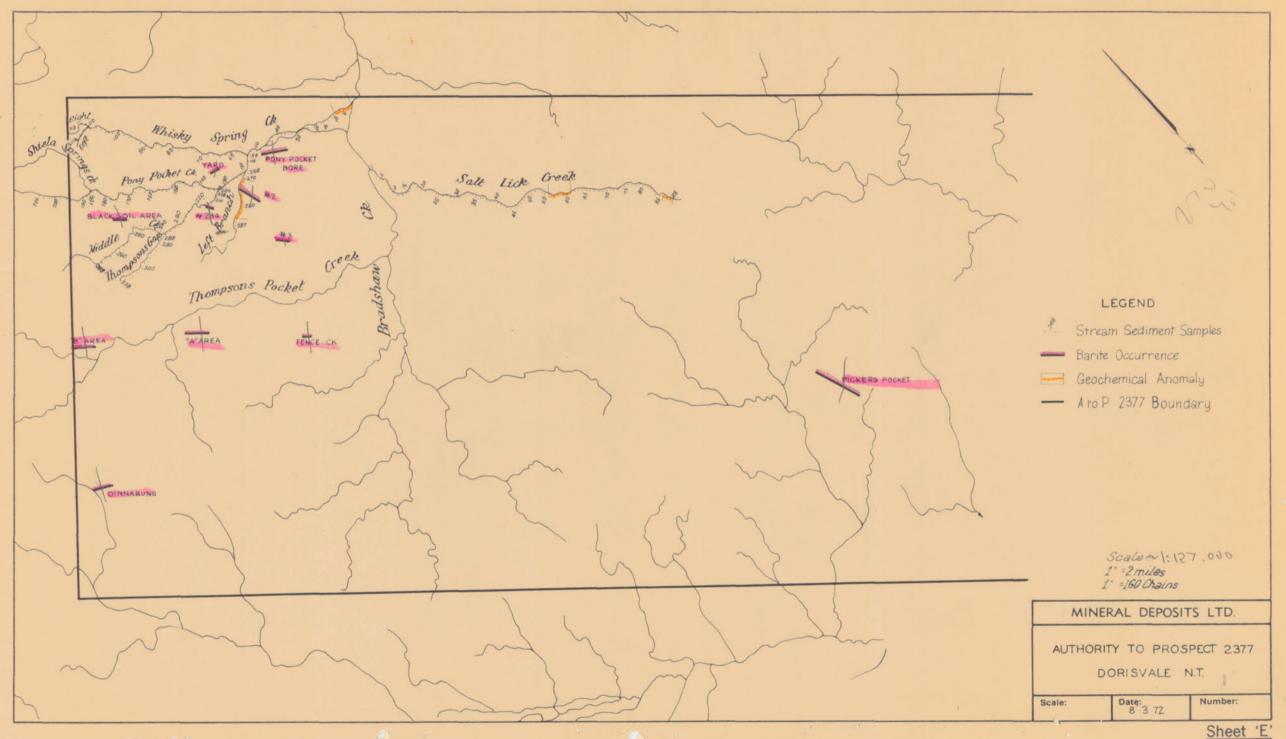
As soon as the barite has been proved by testing the bulk sample the remaining areas should be covered by leases.

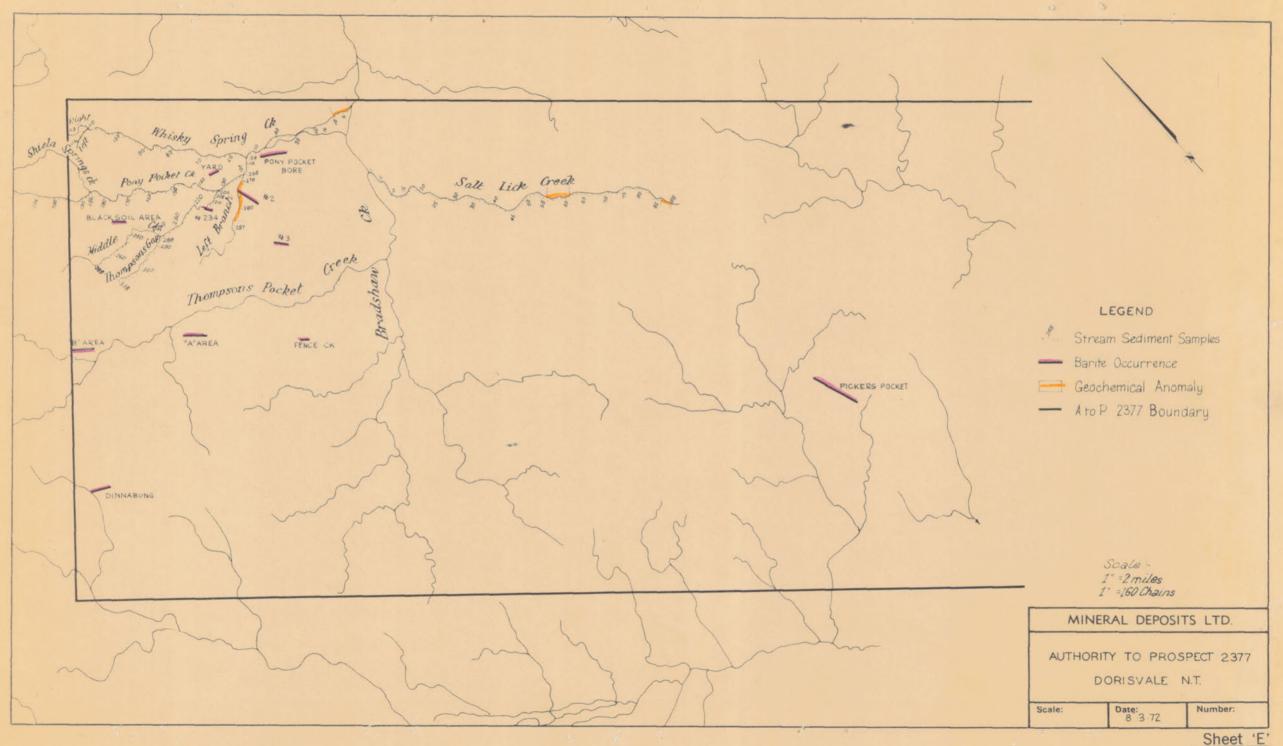
All relevent plans and sections are available in the general file of plans in the Exploration strong room.

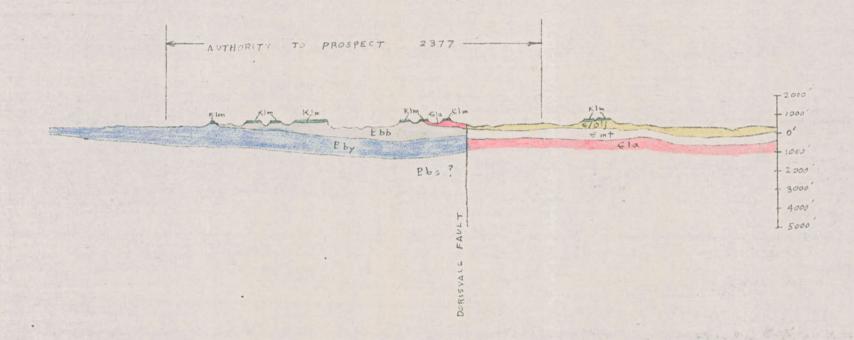
Attached as Appendix $^{\rm B}B^{\rm B}$ is a locality plan showing approximate positions of the outcrops mapped.

The leases applied for ("Jessie Nack" and "Resemente") were granted on 18th September, 1970.

10J.JR 21.9.70. igned. L. JOHNSON Goologist.







		SYMBOL			POSSIBLE MINERALIZATION
Quaternary		Qa	Alluvial deposits	*	Sn
1		Czs	Residual sand and soil	*	
Lamber of the state of the stat		Csl	Laterite	*	Fe
Lower Cretaceous	Mullaman Beds	K1m	Sandstone and siltstones	*	Sn
Middle Cambrian to Lower Ordovician	Jinduckin Formation	C /01j	Ferruginous sandstone and siltstone, minor marl, dolomite and chert	*	
Middle Cambrian	Tindall Limestone	C mt	Limestone		
Lower Cambrian	Antrim Plateau Volcanics	C la	Basalt, minor agglomerate, sandstone, rarely limestone	*	Cu, Ba
Adelaidean or Carpentarian	Waterbag Formation	Etg	Ferruginous sandstone and siltstone, minor dolomite		Cu, Fe
	Banyan Formation	Pbb	Limestone and dolomite, minor siltstone and sandstone, chert bands	*	
	Bynoe Formation	Eby	Siltstone, dolomitic siltstone and minor dolomite	*	•
Suff Har	Skull Creek Formation	Pbs	Limestone, dolomite and chert		
Carpentarian	Allia Granite	Ega	Adamellite, granodiorite and tonalite		Sn
	Cullen Granite	Egc .	Granite, adamellite and syenite		U
	Soldiers Creek Granite	Egs	Granite and adamellite		Sn
Lower Proterozoic	Burrell Creek Formation	P1b	Siltstone, shale greywacke		Au, W
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Noltenius Formation	Pln	Greywacke, conglomerate, siltstone and shale; schist		Au, Sn

^{*} Units exposed on A. to P. 2377

Cain ozoic

Devid Jenwell show you where the samples come from on one of where the samples come from on one of the maps. GEOCHEMICAL PROGRAMME you capies of the maps Ten submitted was soon so possible to

	eyoo			-				e Cres-	A.
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1		PPI	•		120	59	25		-
2	,	2		-	150	43	42		
3		Ĵ			135.	125	45		
4		4			145	130	413		
5	, , , , , , , , , , , , , , , , , , , ,	5			145	100	62-		
6		6			150	125	55		
7		, ,7.	·	·	125	120	60		
8		8		9.9	130	125	40		-
9		. 9		, e - p	130	65	287	· · · · · · · · · · · · · · · · · · ·	
10		10			95	70	30		
11	·	11.			115	6.5	30		
112		12			55	33.	25		
13		13			85	65	25-		
14		14	*		55	55	15		
15		15			95	75	25-		
16		11n			75	155	20	*	
17		17			35	70	30 -	1	
18		1.8			130	75	25		
19		19			75	65	20:		
20	x	20			40	73	33		
2		. 21			100	43	35		
22	4	22		·	90	55	35		-
2	3	23			25	20	35		
2		24			85	45	23	1	
2		25.			105	72.	30-	1	

DOGI VALS

NT

					1			\	*
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	Sb. (ppm)
1		PP26			45	55	20		
2		27		:	10 3	73	20 -		
3		28			115	, , 70	15		
4	a a	29			95	70	25		
5		30			45	つつ	25-		
6		31		-/	35	35	30		
7		32			107	55	33		
8		33			105	60	25-		
9		34			115	25	2 5		
10		35			125	73	30 -		
11		36			85	3.F	20	,	-
12		37			125	90	35-		1-
13		38			133	73	30-		
14		39			(0.3	65	25		
15		40	3 Table 1		123	70	.20	-	
116	rai despublic	41			1/3	65	25		
17		42			113	70	25	<u> </u>	
18	- OF STATES BARES	1 4			115	05	30 -		
	2002 4 72000	44			12.5	73	2.5		
2	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.	3			70	25	+	
2		4			. 20	35	15		
2	2	4	7		73	\$3	25		
12		4	8		85	45	2 3 /		
2		4	9		15	35	2.5		
Carlotte State	4	50	 光質器はよりなみが 		83	55	2.3	•	

DORIL VALE

NT

		CODE	LINE NO.	HOLE NO.	DEPTH OF	Pb	Zn	Cu	Ni	Sb
- 1 - 1 - 1.					SAMPLE	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	1		PP51.			120	79	2 3.7		
	2		52			90	93	43		
var Stop	3		53			· us el	40	35		
W. A.	4		54			453	Qo (25		
	5		ws 55			105	65	28	1	
	6		56		ge.	130	70	30 🐇		
14. W	7		. 57			110	55	30 -		
	8		58			123	45	25		
***	9		.51			q s	50	20 -		
Ÿ.	10		60			75	35	15		
	11		61			125	73	10		
Ar Ar Til	12		62			993	11"	20/		
	13		63			120	63	15/		
FA	14		64			110	\$5	23		
1902 1913 1913	15		65			135	55	. 25		
	16		66			155,	as	33 /	5	
	17		67			115	\$3	20	ites.	
	18		68			113	35	13		
	19		69			120	55	As		
4.4	20		70			173	55	30		
	21		71		1	13	35	10		
	22	2	72			35	ζ 3	20		
13	27	3	73			35	35	20		
· · · · · · · · · · · · · · · · · · ·	21		14			45	.25	410	- ,	
	2		15.			Ar	23	410	March Capital Control of the	

DURIS VALE W.T.

	مناهدة المستعددة والمستعددة	``. 			e - 2 / 1		<u> </u>		
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
1		WS 76			35	5.2	15-		
2	ng Performan	7.	2.		85	35	80 -		
3		78			750	31	410		
4		79			65	25	20		
5		80			75	25	€18/		
6		81			ికే	35	15		
7		82			25	25		,	4
8		83			40	50	20	i.	
9.		. 84	-		85	A5	15		
10		85			60	35	1.3 "		
11		86			25	30	15	·	
12		87			25	70	30/		
13		88			45	55	15-		
14	ŀ	89			65	25	15-		
15		90			85	35	. 25/		
16	·	91			75	23	1.3		
17		1/2	7		73	25	23		, ;
18		93			85	30	23%		
19	·	74	1		85	30	20.		
20		7.5			23	20	150		
21		96			30	20	13		
22		97	_1		55	25	210		
23		98			35	15	610		j j
24		99	·		45	2.3	15		
25		100	•		50	20	213		

CALTON SALLIS

				P Brown	42 · · · · · · · · · · · · · · · · · · ·		1		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1		WS 101			65	25	15		poddigospicanije su ve
2		102			73	25	4/0/	Market	
3		103			215 6	, 23	20		
4		104			350	2.0	15		
5		105	·		<i>2</i> 0	2 3	20 -		
6		10%		Þ	40	45	20		
7	·	107			75	35	10-		
8		108			50	3.2	15		
9		109			25	47	20		
10		110			40	33	60		
11		111	Right		250	15	15		
12	•	1/2	01		35	13	1500		
13		113	//		375	((2)	20/		1,000
14	 	114	left	·	23	20	15		
15		115	11		45	45	10/		
16	i	116	11		101	50	20		
17									
18			· ·						
19	 					,			
20		And the second s		-					
2		the majorating with the		·					
22	2	the second second second							
2	3				, ,	·			
2			·			, , , , , ,		*******	
2	\$	109	ļ.		40	75/	25		

SALTON ANTES

, •		•	•	<u> </u>	DORISI	IHLE 1	<u> </u>		
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1	PP	116			110	130	30		
2		117			25	10	30		
3		118	1		90	70	20		
4		119			95	1.70	30		
5		120			103	60	23		
		131			90	. 60	20		
7		122			103	70	30		
8		123			100	70	30		
9		124			75	65	25		
10		125			103	55	30		
11		126			73	70	25		
12	·	1/27			85	50	20		-
13		128			80	65	23	1	_
1	1	129			25	70	25		
15	}	130		*	100	90	10		
16	1	13/			105	95	10		
17	,	132			100	95	35		ļ
18		133			90	CP	35	191	-
15	 	134			85	70	30		
20		135			105	100	35		
2		136			95	40	40		
2	a	137			90	90	25		
2	+	1 38			40	75	30		
1	1	139			39	cp c	40		
•	5	140			70	Zo	35		·- (
4							4.		

OALTON MILLS	2

CODE	LINE NO.	HOLE NO.	DEPTH OF SAMFLE	Pb (ppm)	(Zn)	Cu (ppm)	Ni (ppm)	(ppm)	1
PP	141			130	15	30	-		•
	142		1	115	70	25			
i	143			80	. 70	15	1		-:
	144			90	80	25			; ;
	145			40	65	25			
	146			90	75		T		
-	147			90	90	25		-	-
	148			95	90	23			
	149			65	80	29	· · · · · · · · · · · · · · · · · · ·		
0	130			75			-		
11	151			90			/		
12	152	(80				200 L	
13	153			95		1			
14	154			80	_				
15	155			. 69		<u> </u>			
16	156			93	8		5		
17	157			7	-				
18	1 150			8	5 7		0		
19	15			81		-	30		
20	160			100			25	je G	
21	16	/	<i>g</i> r -	q			30		-
22	160	2					25	maningha	
23	163	3		9		0	30	2	
24	16	4	*	110		70	35		
25	16.	i	. 1	9	10	55	25		

			, .	CALTON Do	HILLS RIS VALE		11	. <u>Her</u>	
_ ~	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMFLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	<u>Sb</u> (ppm)
1	PP	191			105	45	25		
2		192		2	140	35	25	production of the second	
3		193		,	120	55	20		
4		194			13)-	55	30		
5		195			130	60	15		
6		196			115	40	40	1	
7	· 	197			90	73	30		
8		198			120	45	40		
9		199			90	65	35		
10		200			135	133	45		
11		201			135	115/	35		
12		202			.110	110	35		
13		203			135	- 113	35		
14	 	204		<u> </u>	105	42	30		and the first state of the stat
		205		:-	100	55	35		
15	MP	306			63	50	30		
17		207			65	50	25	1.	
18		,208			73	40	25		
-		209			50	55	20		
20	:	210			55	35	25		
2	-	1211			60	30	30		
2:	1	212	<u> </u>		45	55	35		, ;
2	- 	3/13		 	43	50	35	·	
2		214	-	*	60	40	25		
	5	213			65	45	35		

				DON.	WARE !	V.T -	L.	lack	y .
	CODE	LINE NO.	HOLE NO.	DEPTH OF. SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (prm)
1	PP	166	10.22 (188.4)		80	75	45		
2		167			35	85	45		
3		168			95	70	45		
4		169	The second secon		155	, 85	35		
5		170			95	70	35	and the second	
6.		171			93	. 70	35		
7	100 mm	172			95	90	40		1
8		123			63	55	30		
9		174			65	55	30		
10		175			90	85	<u>3r</u>		
11	1	176			85	75	35		
112	(1) (2) (2) (3)	127			60	65	25		
13		128			40	85	25	~	
] 74	la light of	179			-95	80	30		,
15		180			40	75	35		
115		181			40	75	35		
17		182			93	95	45		
18	1 1 1 1	183			105	90	50		
19		184			90	80	30		
2	i	185			90		35		
2	1	186			95	90	52	STION	CTION.
2	2	137			7 95	70	35	1	NOTIFE ALC.
2	3	138			100	55	20		
2		189			22		2.0		,
; 2	5	190			100		25		

March St. C. V	S

•					IALE N	T.	RED.			
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	(ppm)	
1	MP	216			45	50	20			
2		217			45	55	20			
3		218			45	.45	20			
4	Academic Services	219			40	:45	20	4.		
5		220			35	35	35			
4		021			45	45	25			
7		222			70	55	25			
8		223			70	45	25			
9		224			50	40	20		1	
10		226		rooming and	55	50	25			
11		226			60	45	25			
12	A STANCE	227			75	40	. 25.	<u> </u>	-	
13		228			80	55	25			
74	A STATE OF THE STA	229			45	35	20			
15	6.1	250			80	45	20			
16	A CONTRACTOR	231			65	40	20		·	
17		2302			85	35	20	\		
1ĉ		233			70	35	20			
19		234			60	45	20			
20	•	235			75	45	25			
21		236			80	40	30	1		
22		237			85	50	25			
23		238			60	40	25			
24		239			50	35	10			
25					Commission of				C200-000-00-00-00-00-00-00-00-00-00-00-00	

DORIL VALE

NT

Beach W

	and the second second	1 .	!	DEPTH					,
	CODE	LINE NO.	HOLE NO.	OF SAMPLE	Pb (ppm)	Zn (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1	MP		240			10	410	·	-
2		1	24,			2,3	10		
3		1	242	-		23	15		
4			243		,	2.0	15		
5			244			25	15		
6			245			35	23		<u> </u>
7			246			40	23		Dullast
8			247			45	30	BURALE	
9			248			35	25	1 No.	
10			249	100	·	35	20		
11	1		250	·		25	15		
12	1		251			55	25		
13	ŧ .		252	·		\$0	25		
14	1		253			40	20		
15			254			70	30		
16	1		255			55	2.5		
17	 		256			65	35		
18	1	ŕ	257	·		35	15		
14	 	ŀ	258			50	15		
2	i e	٠.	259			65	30		-
2			260		·	40	50		<u></u>
2:			261			45	.29		
2	-		262			50	23		
2	·	İ	263			33	15		<u> </u>
•	5		2641		·	70	40	1	

CANTON HILLS

Bpit.

	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1 1	7) 0	265				55	2.5		
	// *	266				70	3.3		
2		261			·	70	25		
4		268				23	20		
	40	268			All alin .	70	30		
5		269				85	35		
6	·	270				73	3,9		
7	·	271			1 7	90	3.3		
8		272			1.	115	53		
9		273		<u> </u>		105	40		its
10		274			1	120	55		
11		275	1			105	50		218
12	·	276	<u> </u>		+	.75	53		
13					+	160	745	2000	7
14	·	277			·	100	53		
15		1	-	<u> </u>		139	75	İ	
16		279			-	115	55		
17		280				45	1	.	
18		281				40			
19		282		<u> </u>		410			
20	· · · · · · · · · · · · · · · · · · ·	283		ļ		115			
21		2.84				30		†	<u>.</u>
22		28.				·		ļ	
23		280	i			38	-		1.4
24		28	Ī		,	30			il.
25%	*		and the same of th		The state of the s				

Great No. 2 Street Land

Cameron N.J.

CALTON HILLS Do See VILLE

֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֡	HOMPSON	S POCKE	ET B A	DEPTH	1				and the second second second
	CODE	LINE NO.	HOLE NO.	OF SAMPLE	Pb (ppm)	(ppm)	Cu (ppm)	Ni (ppm)	(ppm)
1	۵۶	5 W			2100				
2		10 W			295				
3		SOW			295				
4	,	120 W			183				
5		ISOW			535				
6		Weer			240				
7		3 6			320				
8		30,			130				
9		SOE	·		145				
10		100E	·		85			,	
11		150E			65				
12		2006			25				
13	505	SE			140				
-14		105			113				
15		332			.415				
16	i	JOSE			60				
17		150 E			65	·			
18	3	200€			5 3				
19		5W			723				
20		10 W			465				
2		50W			260				
22		100W			250				
2		150W	1		150				
21	i	200W			225				
2!					·				

CALTON HILLS

It	OM PSONS	POCKE	T B AR	= -	34. VA				
۴.	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1	50N	SW			485				
2		IJW			553				
3		5 JW			130				
4		100 W			125				
5		Men			185				
6		2 20 W			775				to ariente arabitantes
7		SE			255	,			
8		136		dia.	100				
9		SOE			93				<u></u>
10		シュモ	مرب) رسد در،					
11		1495			13				
12		1336			125				
13	1301	SW			130				
.14		NCI			135				
15		5) V			:30				
16		103 M			- 75				
17		150 W			123				
18		200 1			247				
19		5 E	,		63				
20		10 =			95				
2′		50 E			*13				
22		100 E			133				
2		1434			115,				
21		130 €			1/15				1, 4
2									

evalution persus

	<u>CODE</u>		BARE	DEPTH OF SAMPLE	Pb (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
i	1005	5W			225	en little get		v.9	
2		IOW			250				
5		SOW			160				
ļ.		100 W			150				
5		150W			250				es es
6		200W			195	<u> </u>			
7	1008	53			135	,			·
<u>8</u>		10 &		113	145				
9		SOE			92			·	
10		100 6			125				
11 		150 £	<u> </u>		60				
12 13				-					
					The state of the s				
 1/5	1		17,332						
ำ ำ6									
17				سنسيد					
16									
1 <u>0</u>									
20									<u> </u>
2									
5									
2	the state of the s								
2 <u>1</u>			<u> </u>						-
2							!		1

<u>comments</u>

	-	DORIS VA	A L IF	NT	Tion P	son F	Sekn+	BARE	4
	CODE		HOLE NO.	DEPTH	<u>Pb</u> (ppm)	Zn (ppm)	(ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1	132 N	2006				195	35		
2		1500				180	30		
3		100€				95	25		
4		505				150	25.	ļ	
5		10 E				105	15		
6		S€				73	15		<u> </u>
7		SW		·		90	\$0		
8		10 W				40	45		
9		50 W				55	40		
10)	100 W				50	50		
11		153 W				45	25		
12	2	233 W				70	30		
13	50 N	5 E				105	25		,
14	+	13 E				50	20		
15	2	536				160	35		- 65
16	5	100 €				100	200	THE STREET, SANS	
17	7	150€				90	45		
18	3	2005		·		70	.35		
10	1	5 W				150	35		
20		10 W		<u> </u>		70	25		
21	1	50 W				55	10	, ·	
22	2	100 W			·	70	20		
2	3	ISOW				45	25		
21	4	200 W				10	30		
2	900	5 E				145	35		

				CALIFOR	MILLS			_	
	- company that are regarded expensional differences for	Do	RII VAL	<u>e.</u>	NT	THOMPSO	ONS POO	KET B	AREA
· Constitution of the constitution of	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	<u>Sb</u> (ppm)
1	00	10 E				100	2.5		
2		50€		,		13.5	30		
3	14 (14 (14 (14 (14 (14 (14 (14 (14 (14 (100 년				P	35		
4		150E				45	25	<u> </u>	
5	and a second of the control of the c	2336				35	10		
6	<u> </u>	5 W				95	30		
7		10 W				105	25		
8		50 W				3.5	13		
9		100W				40	10		
10		150 W				33	10		
11		200 W				35	10		
12	50\$	5 W				12.0	35		
13		10 W				43	25		
14		50W				60	15		
15		100W				70	15		
16		150 W				20	410		
17		200 W				कु	20		
18		5 E				140	30		
19	-	10 6				200	45		
20	1	50E				80	25	·	
21		100 E				55*	15		
22		150€				60	15	,	
23		200E				50	10		
24	1005	5 W			,	5 0	15	,	
25		10 W				30	15		

·			Dol. W. CC	NT	· · · · · · · · · · · · · · · · · · ·		and the speciment of th
AREA	CODE	LINE NO. HOLE NO	DEPTH OF Pb SAMPLE (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
AR	1 1005	50W		55	25		
æ	2	100W		43	jo		
₩ -	3	150W		55	15		
POCKET	4	200 W		73	25'		
	5	5 E		65	25		
THOMPSONS	6	10 E		35	20	-	
₹ PS	7	50 E	·	55	20		
7 ± 0	8	いらご		73	25		
-1	9	153 E		75	10		
	10	200 €		70	10		
1	11 34			55	30		
	12	2		105	40		
-•	13	3		65"	35		
. A 图 B A .	14	4		30	23	·	
. n	15	5		70	30		ļ
å	16	6		35	25		
TI CK	17	7		45	20		
	18	8	·	20	15		
SALT	19	9		39	115		
v	20	10		23	15		
4 ,	21	fe .		213	412		
	22	. 16		30	15		
	23	13		50	30		
	24	14		63	25		
`	25	15		53	30		

COMMENTS

DORIS VALENT

Profession	JOK WALE DO											
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb	Zn (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)			
1	SE	16			e Segar	55	20					
		17		North Market		45	25					
2		18				40	20					
3		19				40	25					
-		20				55	20					
5		21				95	25					
7	Kelista (M. Ja	22				80	. 30		,			
8		23				70	25					
9		24				30	15					
10		25				45	20					
11		26				55	15					
12		27	* * * * * * * * * * * * * * * * * * * *			55	20		-			
17	4.5	28				65	20	and the St.				
11	1	29				45	15					
15		30				40	. 10					
10	{	3/				45	10					
1'		32			3	50	15	toring the same				
1		33				40	15					
1		34				40	10		<u> </u>			
2	2.0	35				10	15					
. 2	1	36			2	30	15					
2		37				50	15		<u> </u>			
-	3					180	115	torus .	1			
-	4	3.0				35	15	Size Si				
7.	5	40		•		30	IO		<u> </u>			
	<u> </u>											

DORIS VALE NT

	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>p</u> b (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1		SL	41	an demonstration of several of the second se		15	210	مادوي _{دا} ر	
2			12	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la	30	210			
3			43			.: 30	10		
4			44			35	210	-	
5			45	,		55	10		
6			46	·		30	10		
7			47			35	15	desemble	
8			48			30	20		
2×			49			40	15		
10		* 18.2 * * * * * * * * * * * * * * * * * * *	50		Strage (a)	105	30		
n	Barren Barren		5/			105	30		
112			52		nder Die Stigki	100	20		
13			53			qò	20	V Eine	
14			54	A COLOR		70	25		, 1
75			55		18 de 18 de	70	20	Management	
16	स्कृत्याः सः । सङ्ग्रीयः राज्यात्रः सः । स्थितिस्य		56			120	25	t min	
17			57			110	30	Employments, or	
18			38			140	35	Agentages to	
10		and the	59			130	30	The state of the s	
50	1	· . ·	60			65	20	and the same of th	·
21			61	,	en yn e	135	30		
22			62			70	20	est.	
2			63			80	20		
21	•		.64			25	15		
2		r							

CALTON HILLS DORIS VALE

5-Blue

				DOKIA	VALE				
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1		54	65			55	20		
2	-	1	66			<i>5</i> 5	10		
3			67			55	10		
4			68			50	20		
5			69			30	20	t.	
6			70			30	Z13		and analysis was the second
7	1		71			80	35		
8			72			30	10		
9			72 73			70	40		
10			74			30	210		
11	}		75			20	a.		
12			76			15	0		
13	1		1.77		-	30	15		
14	1		18			20	210	~	
15			79			10	·		
16			80			45	10		
17			81			55	10		
18			82			70	15		
19		,	83.		·	40	15	gar gagera marin	
20		٠.	84			70	25		
21			25		·	20	410		
22			P6			105	30	and the	
23			87			105	20	and the second s	. A
24			. 18			130	20	, , <u>~</u> .	
25			1			7			



P. O. Box 469 Darwin - N.T.

May 27th.1970

The Director of Mines & Water Resources. N. T. Administration. DARWIN - N.T.

Dear Sir.

Authority to Prospect - 2377. Report for April 1970.

I apologice for the delay in rendering this report, but due to difficulties in communication, I have been awaiting details of expenditure insurred for the period.

Barly in April a geologist from Mineral Deposits Limited, with which company we have a working agreement, visited Darwin and arranged with Ausdrill Pty. Ltd., to continue drilling at the site.

Mineral Deposits Ltd., also made preparations for the field season, when company gear and equipment were assembled and a programme of work prepared for the mext phase of testing of the barytes deposits.

Mr. Laurence Johnson, Geologist and field assistants left Southport, Queensland on 26/4/70 for Dorisvale, arriving there on 3rd. instant, just prior to the arrival of the Ausdrill equipment.

Heavy equipment was hired from Pine Creek to level certain hazardous crossings, to provide access for drilling rigs and other equipment. Drilling is now proceeding satisfactorily.

Expenditure for the month of April 1970 amounted to \$1050.00.

Yours faithfully,

(Douglas Drake).
Agent for D. Drake, T. Moar & W. S. Casey.

dd/re

COPY

P.O.Box 469, DARWIN N.T. 5794

20th November, 1970

The Director of Mines and Water Resources. Northern Territory Administration. DARWIN N.T. 5790.

Dear Sir.

AUTHORITY TO PROSPECT NO. 2377. REPORT FOR OCTOBER, 1970.

In addition to the extensive work already carried out in the Pony Pocket and Thompson's Pocket areas of this A.P. further prospecting and exploration was carried out during October.

For your information, we are attaching copy of General Report dated 21/9/70, covering our activities to that date.

In view of the difficulties which normally confront us during the wet season, it is requested that we may be relieved from field conditions of the Prospecting Authority until the beginning of April, 1971.

Yours faithfully,

(D.Drake)

Agent for D. Drake, T. Moar and W. B. Casey.

Sorak

Bncl:

P.O.Box 469, DAR IN N.T. 5794 14th December, 1970

The Director of Mines and Water Resources, Northern Territory Administration, DANNIN N.T. 5790.

Dear Sir,

AUTHORITY TO PROSPECT NO.2377. REPORT FOR NOVEMBER. 1970.

During the above period, feasibility studies have continued on the Dorisvale Barytes Prospect.

Investigations regarding the purity of ore have continued and an average of 1.6% silica and 1.4% strontium was determined.

Because of the impending wet season, no further field work has been initiated.

Yours faithfully,

(D.Drake)

Agent for D.Drake, T.Moar and W.E.Casey

Nahe

P.O.Box 469, DARWIN H.F. 5794, 14th December, 1970

The Director of Mines and Water Resources, Northern Territory Administration, DARWIN N.T. 5790.

Dear Sir,

AUTHORITY TO PROSPECT NO.2625. REPORT FOR NOVEMBER, 1970.

Investigations of this area are closely associated with those carried out on Authority to Prospect No. 2377, which adjoins Authority to Prospect No.2625.

Following the aerial survey of Authority to Prospect No.2625, it has been decided to postpone field investigation until after the wet season so that a full exploration programme can be commenced without being broken by the isolating conditions caused by the anticipated heavy rains.

Yours faithfully,

(D.Drake)

Agent for D.Dr.ke, E.Moar and W.E.dasey

Brake

P.O.BON 469, DARUIN N.T. 5794.

5th January, 1971.

The Director of Mines and Water Resources, Northern Territory Administration, DARWIN N.D. 5790.

Dear Sir,

AUTHORITY TO PROSPECT NO.2625. REPORT FOR DECEMBER, 1970.

Literature studies have continued for this period for the area concerned, so that field investigations will be commenced after the Wet season on areas most likely to contain mineralization, especially along the Dorisvale Fault which runs through both Authority to Prospect No.2377 and Authority to Prospect No.2625.

Yours faithfully,

(D.Drake)

Agent for D.Drake, T.Moar and W.F.Casey

Strake

6.0.Box 409, DAL IN N.S. 5794.

14th December, 1970.

The Director of Mines and Vator Resources, Northern Territory Administration, DARWIN N.T. 5790.

Dear Sir.

AUTHORITY TO PROSPECT NO. 2664. REPORT FOR NOVEMBER, 1970.

Prospecting and general reconnaissance of Authority to Prospect No.2664 has continued during this period.

Further samples have been sent to Mineral Deposits Limited at Southport for investigation regarding manganese content.

Unfortunately, the samples referred to in the last report (October) have not been encouraging with respect to manganese. The full analysis is listed below:-

Sample No.	%Fe	<u> Min</u>
AE.1564	5 0. 0	0.85
AE.1565	47.0	0.30

Yours faithfully,

(D.Drake)

Agent for L.Moer and D.Drake

Borake

P.O.BOH 469, DARCHI N.T. 5790. 5th January, 1971.

The Director of Mines and Water Resources, Northern Territory Administration, DARWIN N.T. 5790.

Dear Sir,

AUTHORITY TO PROSPECT NO.2664. REPORT FOR DECEMBER, 1970.

Because of the impending Wet season, no further exploration work has been carried out on the area covered by the Authority during this period.

Yours faithfully,

(D. Dreite)

Agent for L. Moar and D. Drake

P.O.Box 469. DAMMIN N.T. 579 4. 5th January, 1971

The Director of Mines and Water Resources, Northern Territory Administration, DANUIN N.T. 5790.

Dear Sir,

AUTHORITY TO PROSPECT NO.2377.
IMPORT FOR DECEMBER, 1970.

During this period, no field work has been attempted on the Authority.

However, a survey of available geological literature on the areas is being carried out at present, and all instances of previously recorded mineralization are being studied in detail, so that centres for investigation can be established for the commencement of the field season of 1971.

Yours faithfully,

(D. Drake)

Agent for B.Drake, T.Moar and W.E.Casey



- 7. Ideally the Company's mill site would be located close to or at a harbour waterfront. As a new port is to be established at the Quarantine area on East Arm it is felt that this company's possible requirements for land and access loading facilities both bagged and bulk will be given consideration in any early planning.
- 8. As barite products are adversely affected by iron ore dust, a most deleterious contaminant, it would be necessary to bear this in mind in the overall planning and allocation of areas.
- 9. My Company through its representatives will keep the Administrator informed of the progress and status of its investigations and planning and looks forward to the possibility of establishing a barite mining and processing operation in the Territory.

Yours faithfully, MINERAL DEPOSITS LIMITED

<u>O. D. Paterson</u> Managing Director

•

_

-

REPORT ON AUTHORITY TO PROSPECT 83, DORISVALE STATION

NORTHERN TERRITORY

INTRODUCTION

Following initial investigations by a company Geologist (June, 1969) and an inspection by the Managing Director, Mr. Paterson, and the Chief Geologist, Mr. Gibson, an option over this area was taken out by Mineral Deposits Limited in October, 1969.

Available information at this stage was limited to Bureau of Mineral Resources regional mapping data, combined with local knowledge of the existence of outcroppings of barite.

EXPLORATION ACTIVITIES

The processing of samples of barite collected during the early work indicated the existence of a fairly pure deposit of considerable size.

Basic survey work designed to indicate the extent of surface outcrops was completed by company geologists in late November and early December. One north-south trending tabular ore body with a surface length of 1,500' and width of 12' was selected for evaluation at depth.

Diamond drilling in the area commenced on 27th November. Initial work was aimed at determining the thickness and grade of the ore body at depths of 50 feet and 100 feet below surface respectively.

The initial drilling programme called for the placement of four holes, two from each of two sites, 500' apart along the strike to be drilled to intersect the barite at the required depths.

Two holes were completed from F+10' site. A third hole was commenced at site C+60' but was abandoned due to wall collapse after penetrating to a depth of 32 feet. Borehole logs of the completed holes are attached as Appendix **A**.

Following torrential rains on the 15th and 16th December operations were suspended until the end of the Monsoon season due to the difficulties of access and supply.

CONCLUSIONS

The existence of the barite ore body at a depth of 100 feet below surface has been proven at one point and samples of the core obtained sent to the Company's Southport Laboratories for assay and testing. These results will be provided when they become available.

Results of the survey work are also awaiting compution and plotting. It is suspected that mapping will **confi**rm the theory that the barite outcrops are part of one continuous bed.

Page 2.

A considerable amount of additional drilling is still required before a reliable feasibility study can be made, but results to date have proved most encouraging.

P. J. Barrett

C. R. Gibson

Bore Logs - Dorisvale, N.T.

Site F + 10'

Hole 1 Angle 41° 10'

- 0' 30' Weathered sandstone no core recovery
- 30' 39' Purplish brown fine-grained sandstone
- 39' 44' Compact grey sandstone with fracture fillings of ? chlorite
- 44' 50' Grey-white sandstone, heavily fractured with ferruginous weathering products along fractures.
- 50' 59' Hard purplish sandstone with heavy fracturing and some ? chlorite along fracture planes.
- 59' 68' Hard grey to red-brown sandstone with heavy fracturing
- 68' 82'6"Dark red-brown sandstone with thin barite veins (up to 5m.m.) and vesicles of barite.
- 82'6-83'6 Soft brown sandstone no core
- 83'6- 87' Pink barite
- 87' 88' Weathered barite
- 88' 89'6 Pink barite
- 89'6-95'6 Purple sandstone with thin barite veins

Hole 2 Angle 57°

- 0' 40' Weathered sandstone no core
- 40' 60' Purplish brown sandstone with heavy fracturing
- 60' 81' Dark brown sandstone with barite-filled vughs and fracture-fillings
- 81' 110' Hard dark brown sandstone with barite crystals and veins up to 2" thickness.
- 110'-124'6 Pink barite
- 124'6 Dark red-brown sandstone with barite veins and vugh-fillings.

Site C + 601

Hole 3 Angle 42°

- 0' 32' Weathered sandstone and boulders no core.
 - * Hole abandoned at 32 feet due to wall collapse.

PROSPECTING AUTHORITY No. 2377 Report for Year Ending 17 August, 1972

Prospecting continued for barytes and other minerals.

In September and October a field investigation was again carried out, locating new barite occurrences and further examining the rocks along the Dorisvale fault. It was decided to continue the geochemical sampling programme.

Both reconnaissance stream sediment sampling and detailed soil sampling have been accomplished. The stream sediment samples are taken from both creek banks initially at 400 foot intervals and at all creek junctions. Anomalous or interesting areas are resampled at 200 foot intervals. All sampling points are marked by aluminium tags attached to the nearest tree.

Sampling has been completed in the Salt Lick Creek and Pony Pocket areas. These areas were sampled to prospect for mineralization occurring along the Dorisvale fault. Four areas are worthy of more detailed sampling. (see Figure 1) At the junction of Bradshaw Creek and Pony Pocket Creek an area 2800 feet long shows zinc values at two times threshold and copper values at 1.6 times Most of the samples collected along Left Branch show threshold. zinc values 1.5 times threshold and copper values up to two times threshold. These represent 5600 feet of sampling. outcrops along the creek bed in this locality. Along Salt Lick Creek an area 2640 feet long contains anomalous zinc values up to twice threshold values and an area 1320 feet long at the end of the creek also contains anomalous zinc values up to twice the threshold All of these areas should be grid sampled to determine value. the significance of the anomalous values.



A soil sampling grid has been completed around known sulfide occurrences in the Thompsons Pocket "B" area. An area 400 feet by 300 feet has been sampled on a 50 foot grid pattern. This grid disclosed zinc values increasing at the northern limit of the survey. The highest zinc value at the northern corner of the grid is 1.65 times the threshold. This grid should be extended to the north. (see Figure 2)

(David A. Rhoades)

Lavid a Phonder

MINERAL DEPOSITS LIMITED

(INCORPORATED IN NEW SOUTH WALES)

81 ASHMORE ROAD, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA.40438

DAR/sas

8th March, 1972.

Director of Mines, Mines & Water Resources Branch. DARWIN, N.T. 5790.

Dear Sir,

re: Prospecting Authority No.2377 - February Report 1972:

During February the wet conditions prevailing in this area did not permit field work.

A review of geochemical sampling results continued during February. Attached please find copies of all geochemical results obtained to date. attached please find a geological cross section, stratagraphic column, and A. to P. map indicating all barite occurrences and geochemical sample Λ map showing the geochemical grid of the Thompsons Pocket B Area is currently in preparation and will be submitted when completed.

DAVID A. RHOADES, MINERAL DEPOSITS LIMITED

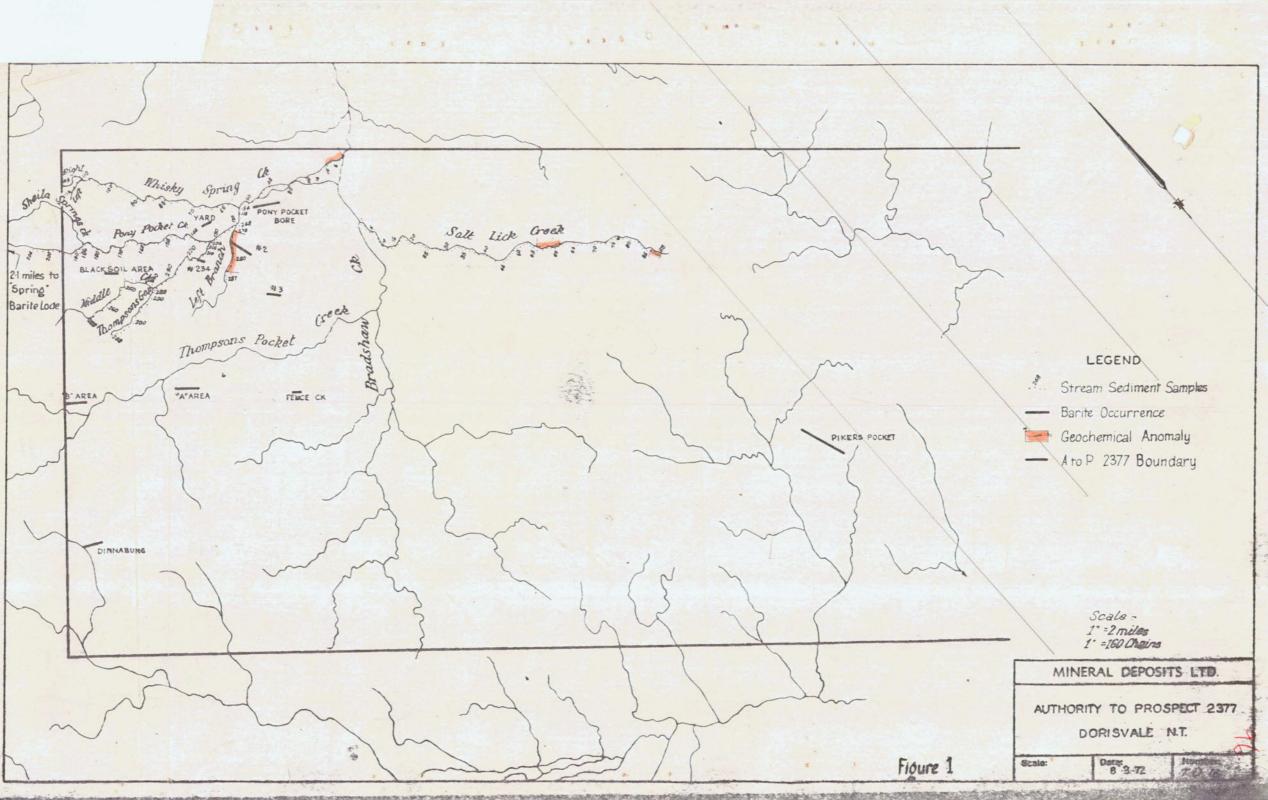
Lavid a . Rhooder

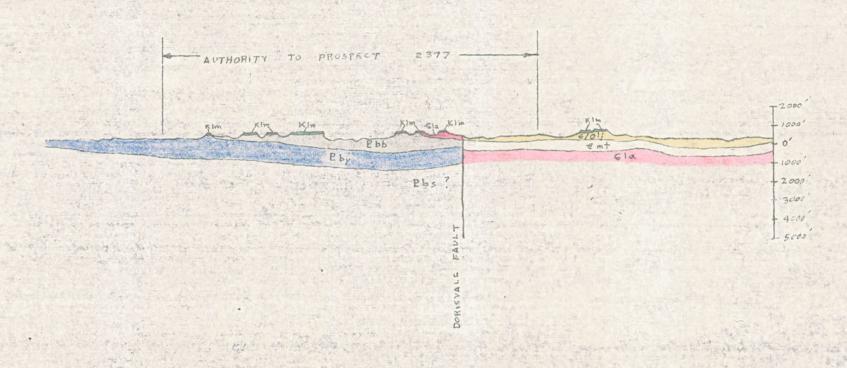
For: D. Drake.

c.c. Mr. D. Drake,

Darwin.







The same of the property of the same of th

Quaternary		Qa	Alluvial deposits	*	Sn
		Czs	Residual sand and soil	*	
		Cs1	Laterite	*	Fe
Lower Cretaceous	Mullaman Beds	Klm	Sandstone and siltstones	*	Sn
Lower Ordovician	Jinduckin Formation	C /01j	Ferruginous sandstone and siltstone, minor marl, dolomite and chert	*	
Middle Cambrian	Tindall Limestone	C mt	Limestone		
Lower Cambrian	Antrim Plateau Volcanics	€1a	Basalt, minor agglomerate, sandstone, rarely limestone	*	Cu, Ba
Adelaidean or Carpentarian	Waterbag Formation	Etg	Ferruginous sandstone and siltstone, minor dolomite		Cu, Fe
Q. 2	Banyan Formation	Ebb	Limestone and dolomite, minor siltstone and sandstone, chert bands	*	
ta S	bylide rolliacton	Eby.	Siltstone, dolomitic siltstone and minor dolomite	*	•
2	Skull Creek Formation	Pbs	Limestone, dolomite and chert		
Carpentarian	Allia Granite	Pga	Adamellite, granodiorite and tonalite		Sn
	Cullen Granite	Pgc .	Granite, adamellite and syenite		U
	Soldiers Creek Granite	Egs	Granite and adamellite		Sn
Lower Proterozoic	Burrell Creek Formation	P1b	Siltstone, shale greywacke		Au, W
S 2 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Noltenius Formation	Pln	Creywacke, conglomerate, siltstone and shale; schist		Au, Sn



Austwide Mining Title Management Pty Ltd

A.C.N. 064 099 109

Post Office Box 1434 Wangara WA 6947 Western Australia

Telephone: (08) 9409 6951 Facsimile: (08) 9309 9335 Mobile: 041 990 2407

Email: reception@austwidemining.com.au Web: www.austwidemining.com.au

DEUSCIENCE-

7 2/6/11/02

Director
Minerals & Energy Titles
Department of Primary Industry, Fisheries & Mines
GPO Box 3000
DARWIN NT 0801

Dear Sir,

<u>SURRENDER REPORT –</u> <u>EL 22530 - ELKEDRA DIAMONDS NL.</u>

Please find enclosed for your attention a disk containing the abovementioned report.

We will be pleased to provide you with any other information you may require in respect of this matter and I look forward to your acknowledgement of the report in due course.

Yours faithfully,

L.D. (Alf) Valentine

Mining Title Consultant

26th October 2005

Date: 31.10.05 SS

TRIM Registered

Date: 75/19/05Time: 11:37(AM) PM

Trim File No: 10.2003 9.1991

Trim Doc No: No. DOC. DOC.

DEPT. PRIMARY INDUSTRY,

2 8 OCT 2005

ROCEIVED - BRF ECREORATE INFORMATION MANAGEMENT David Derwell show you where the samples come from on one of where the samples come from on one of the maps. Geochemical programme you copies of the napoter selement of which soon so possible to park treet.

rapo!		TOTE NO	DEPTH OF	Pb	Zn	<u>Cu</u>	Ni =	Sb
CODE	LINE NO.	HOLE NO.	SAMPLE	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	PPI			120	60	25		1
	2			150	43	40		
	3			135	125	215		-
	4			14.5	133	40		
	5			145	100	42		
	6			150	125	55	<u>I</u>	
7	7			125	120	40		
3	8			130	125	40	<u>Z</u>	
9	.9			100	65	25		
10	10			45	73	30		
11	//			185	65	30		
12 .	12		1	5.5	50.	25		
13	. 13			335	65	25		
14	14			5.5	55	15		
15	15			75	75	25		
16	16			75	5 :	20		
17	17	1		35	73	30 -		
18	18			100	15	25		
19	19			75	65	20		
20	20			90	73	33.		
21	21			100	90	35-		
22	27			90	56	35		
23	23			Pr	23	35		
24	24	مروع والمراجع والمراجع والمراجع والمراجع		J. 500 F	45	25		
25	25			195	70	33	4	

CABIUN THIRDS

			·	Down	3 MYPE	1 M			Super-
444	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
1		PP 26	access representativas proportion and tradestar		. 45	§ \$	20		
2	And the second s	27			. 10 3	73	20		
3	MARTINESTE STATE OF THE STATE O	28		-	115	, 70	15		
4		29			95	70	25.		occesion and the second
5	The state of the s	30			43	73	25-		A STATE OF THE PARTY OF THE PAR
6		31			35	35	3.0		
7		32			100	55	33-		
8		33			135	6.3	25-		
9		34	ļ		115	35	2.		
10	ı	35	-		125	73	33 -		
11	-	36			25	3.5	2 3		
i	,	37	,		125	93	35-		
12	1	38		,	103	73	30-	Jan Sal	
14		39			133	65	25.		
15		40			120	73	23		
16	1	44		1	110	(21"	à r		
17	1	42	·		11.3	73	2:		
18	A CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	43			117	65	33-		
19		44			12.5	70	10		
20	1	45			115	70	7 3		
2	· Franciscom accominations	4			123	35	11		
2		47	···		73	5)	20		
2		48			25	45	2 3	-	i i
2		4)	- 		85	35	20		
-		.57			83	\$ 5	20		

DORIL VALE

M

					9 13 1 2 202				**************************************
***************************************	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
1		PPSI.			120	70	2 3 🗇		
2		52			95	40	40/		
3		53			110	43	35-	AND DESCRIPTION OF THE PERSON	***
4		54	-		445	40	25		-
5		ws 55			105	65	2 6		
6		56			133	73	30		1
7		57			110	35	30 9	•	
8		58			153	15	25/		
9		-59	,		93	30	2 % -		
10		60			75	35	15	, ,	
11		6/			12'5	73	13		
12		62			90	15	20-		
13		63		1	120	60	15/		
14		64			112	55	23 =		
15		65			130	55	25		
16		66			lor.	135	3.5		
17		67			11.5	50	2.3		
18		68			113	35	13		
19		69			123	35	As		
20		70	the second lives the se		173	35	33		
21		71			80	35	13		
22	-	7.2			75	٤٥	2.3		
2		73			25	35	2.3		
2!	i	74			45	2.5	Z 10		
2		75.			45	20	413		•

DORISVALE V.T.

				The state of the s		in loss. Y g			to dignify white-the carbon despendent
e gene i ave a filgmente .	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	Pb (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1		Ws 76	,		35	3.2	10	1 .	
2	Steenschapenscha	77	7	·	85	30	A OS		
3	and the color of the state of t	78			75	30	410		
4		79			65	3 <	20		
5	والمستان معين موانده رياسة الماموادة استوراد ويواندن	80			77.5	25	410		
6		81			85	35	15		· · · · · · · · · · · · · · · · · · ·
7		8.5			ds	25	25		
8	- directification of the state	83		i	90	5)	23		
9		. 84	1		85	45	15		6
10		8.5			60	35	13		,
11		86			35	c [15		
12	,	87	•		35	70.	30		
13		88			45	55	15		i.
14		89		,	65	25	15		
15		90			85	35	.20		
16	l .	91			75	23	10,	1	
17		92			73	25	20		
18		92			85	3 ?	20		
19		94	4		85	3.3	20,		
20	,	75			43	20	15		
21		96		·	3.5	2,	10	<u></u>	
22		97			55	25	210		
23		98			35	15	410		
24		99	,		45	2 3	15		
25		100			50	23	213	<u>!</u>	

CALTON HILLS

A COLUMN TO THE PARTY OF THE PA	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	(ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
		V15 101			65	25	15		· · · · · · · · · · · · · · · · · · ·
		102		_	73	25	610-		
		103			115	.23	20		
		104		1	35	23	15		
5		105			20	20	20'		
5 !	· ····································	106			43	45	20		
7		107.		,	75	35	10		
8		108			57	3 3	15		
9		109		·	25	43	20		
10		100			40	33	60		
11		111	right		- Ste	15	IN.		
12	*	1/2	100		25	13	150	15	
I		1/3	11		45	1.3	20/		
13 14	·	114	left		80	S 16	15		
		115	7		95	45	10		
15		116	. '4		105	5)	20		
16		77.6				 			
17									7. 4
18									
19									
20		a constraint 3 same and							
21		positivator and all and an analysis		1					
22	-				<u> </u>				
23	 		1					1	
24		100) A.	•	40	75	035		

CALPON MALES

. 1	• •			•	DORISI	IHLE I	VI	-	
3	CODE LI	YE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
1	PP	16		·	110	130	30		
2	1	17			35	10	30		
3	1	1 &		<u>.</u> .	90	70	20		
4		19			95	70	30		
5]	<i>40</i>			100	60	23		
()		<i>÷1</i>		l	90	. 60	20		
7	1/3	22			103	. 70	30		
8	. /:	23			100	70	. 30	The second second	
9	1.	24	,		75	65	25		
10	/:	25			103	55	30_		
11		26			73	73	25		
12	į į	7 ابت			85	50	20		
13	,	28			80	65	23		
14	,	129			25	70	25		
15		130			100	90	10		
16	}	31		<i>*</i>	105	95	Ao		
17		روق			100	95	35		
18		(ين ا			93	CP	35		
19		34			85	70	30		
20	<u>.</u> i	135			105	100	Y		
21		136			95	40	40		
22		137	i		90	90	25		
23	1	3 8	į		40	75	30	1	-
		39			35	(P)	40		
21	/	40		*	70	82	35		:
,					*			*	

CHEREN MILES

				Born	erale. 1	1. 1.	Roi	<u> </u>	
· · · · · · · · · · · · · · · · · · ·	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMFLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	(ppm)
1	Pit	141			130	75	30		
2		:142		,	115	70	25		
3	;	143			క్రిం	70	15		
4		144	:		90	80	25		
5		145			40	65	25		
6	and the second s	146			90	75	15		
7		147			90	qo	25		
8		148			95	90	20		
9		149		,	65	80	25		
10		150	.4		75	70	25		
11		151			90	83	25		
12		152			80	70	20		
13		153			95	85	23		
114	1	154		,	80	70	15		1
15	1	155	·		65	70	15		
16		156		47	90	85	15		
17		157			70	75	410		
118	1	158			85	70	30		
19	-	159			85	90	30		
2		160		-	105	85	25	·	
2		161			90	70	30		
2		162			90	65	25		
; 2		163	!		95	70	30		
2		164	1	4	110	70	3		
£	5	165	;		90	55	2	5	:

÷	•				Control of the Contro				
<u> </u>	TO THE PERSON AND ADDRESS			LON	WALE !	V. 1		1 och	
* *** (1: 1: ***************************	-CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1	PP	166			80	75	43		
2	and the second	127			25	85	45		
3		168			45	70	45		
4		169		:	105	, 85	35		- 1
5		170			95	70	35		
6		171			75	. 10	35		
7		172		·	95	90	40		
8		123		1	60	55	35		
9	1	174		ı	65	55	30		
10		175			90	85	3r		
11		176			85	75	35		-
12		1/22			60	65	25		
13		178			90	85	25		
14		179			95	80	33		
15).	180			90	- 75	35		
116	1	181		<	90	75	35		
17	7	182			93	95	45		
18	3	183			105	40	50		
19		184			90	80	35		
2	·	185		<u> </u>	93	90	15		
2	1	186			95	92	50	STON	CTICN
5	2	137		,	95	70	35		73.73
5	3	138			100	7	20	1	
2		189			22		2.3		
2	5	190			100	55	25		*

	<u> </u>	CALTON	HILLS 212 VALE	- N	1	Jets.	
CONT	LINE NO. HOLE NO.	DEPTH OF	Pb	Zn	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppn)
CODE	DIRE RO. HODE 10	SAMFLE	(ppm)	(ppm)		(ppm)	(ppn)
1 PP	191.		105	45	25		
2	173		140	35	25		
3	193		120	55	20		
4	174		1315	55	30		
5	193		130	60	15		
6	194	,	115	40	43		
*	192		90	73	30		
8	178		120	45	40		
	199	-	90	65	35		1
9	200		135	130	45		
10	201		135	115	35		
11	120x	-	.110	110	35		
12	203		135	1101	35		
13	204		105	42	30		
14	200		100	55	. 35		
15 17 P		1 12 12 2	63	50	30		
	307	-	65	50	25		
17	20%		73	40	25		
18	209		50	55	20		
19	210	<u> </u>	55	35	25		
20	211		60	30	30		
21	212		45	55	35		
22	313		43	50	35		
23			60	43	25		
24	215	*	65	45	35	.	
25	00.70		03				,

	COMPAN	S
--	---------------	---

•		ı	DORISVALE NT.			RED.		
CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	<u>Ni</u> (ppm)	Sb (ppm)
mp	216			45	50	20		
2	217			45	-55	20		
3	218			45	45	20		
4	219	;		40	.45	20	·	
5	220			35	35	35		
5° !	बद्ध।			45	45	25		
7	222			70	55	25	. 1	
8	223			70	45	25		
9	224			50	40	20		
10	228			55	50	25		
11	226			60	45	25		
12	227			75	AO	25.		•
13	228			80	55	25		
14	229		1	45	35	20	i .	
15	230			80	45	20		
16	231		•	65	40	20		
17.	232			85	35	20		
18	233			70	35	20	·	
19	234			60	45	20		
20	a 35°			75	45	25		
21	236	1		80	40	30		
22	237			85	50	25		
23	238	1		60	40	25		
24	239	1		50	35	10		
25								
			<u> </u>			T		

CARTON MELLE DOG . 1 V

NT

RLAIN W

	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	<u>Sb</u> (ppm)
1	MP		240		_	10	2 10		
2		!	24.			2, 2	₁ O		
3		-	242	·		23	15		
4			345		•	3.0	15		
5			244		٠	25	15		
6	,		245			35	29		
7			246			80	23		ે દિવસ્
8			247			45	33	BALALE	
9			245			35	25		
10			2 4,9			35	23		1
11	 		250			25	15		
12			1.25			55	25		
13			252			50	25		
11	1		253		,	40	20		
1:	i		254			70	30		
10	\$		265			35	25		
1'	1		1210			65	35		े क
1		·	25.7			35	15	1	
3	-		258		·	53	15		
2	}		259			65	30		
-	1		260			40	20		
2	-		261			45	.20		
2	-		262			50	29	4 1	
1	4		265			33	15		
· -	9		2661		,	70			

TALTON HILLS

ENE.

,	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
-	mø	265				55	2.5		
-		166				70	3,3		
+	-	w 67				70	25		
		x 40 8				83	40	,	
,	L 6	16X			Год рге-	70	30		
,	and the second s	: 69				85	35		
7		370			l :	73	3,5		
3		271			· (.	90	1,3		
9		272			·	113	150		
10		13				105	40	11. 5B.	12
11		174			1	123	1	,	
• •		1 3 15				105	50		ule
12 13	£	1.475				45	1	یم ا	
14		477			1	100	45	0.10	
15	1.	239				139	33		
16		279				130		•	
17	-	3 80				115	55	•	
18		381				45		l ·	
		200				46	110		
19 20		1 33				1 1/35	43		
21	-	13.4				98	35		
	 	. ×	<u> </u>			34	3 . 3		
22	·	Je 36			1	35	2		
2]		28				36	2.		
21	-	1	1		CONTRACTOR OF THE PARTY OF THE				

Carley Median

	والمع المتواد والميان	e di tale				· · · · · · · · · · · · · · · · · · ·	Sittle	
CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
76	- 288				2.5	20		
	289				50	25		
5	290				35	- 60		***************************************
+	291			1	-55	35		
5	292				50	35		
6	293				45	20		
7	294				CA	20		
8	295				15	2.9		
9	296				55	22		
10	297				55	135		
11	298.				50	20		
12	299				15	1-15-		-
13	300				AS	2.2		
14	3.01					20		
15	302		٠.		30	-36		<u> </u>
16	303				45	25		
17	309				15	20-		
18	3.06				35	1.0		
19	300	7			10	15		
20	308				2.3	20		
21	53	1	and with the	AL 30			Ĉ.	
22	. ,							
23								
24			· · · · · · · · · · · · · · · · · · ·		,			
25			4	7		,		<u>i</u>

CALTON HILLS

PORIS VALE

	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
1	00	5 W			2100		·		
2		IOW	·		295				
3		50W			295				
4		INW			180				
5		150W			535				
6		200W	ı	·	240				
7		SE			320				
8		OE	·		130				
9		50E			145		·		
10		100E		·	85	·			
11		ISOE			65				
12	•	200 €			25				
13	505	5E			140	-			
14		10 €			110				·
15		50E		v	95			-	
16		/eo €			60	:			
17	7	150 E			65				
18	3	200 É			50			·	
34		·5W			720				
2		Tow			465				
2	1	50W	L 1		260				
2	2	100W			250				
2		150W			150			1	
2	i i	200W			225				
2				*					

CASTON HILLS

DORILVALE

	The same of the second of the same			17	ORIIVA	_ ~			
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Ph</u> (ppm)	<u>Zn</u> (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
1	50 N	5W			A85				
2	für op 1915 Gloppin für i 1 Mit Stansphare mit Albühössen mi	10 W			550				
3		50W			130	Hathor and Assessment Control			
4	•	100 W			125				
5		120M	·		185				
6		200 W			275				
7		5E			255				
8		OE			(00)				
9		SOE			90				
10		100E	no	wal					
11	Market to the stage of the second contract of	150E			90				
12		12005		:	125	Anna Control of the C			
13		5,W			130				
14		10 W			135				
15		50 W			120				
16		100 W			275				
17		150 W			120			.	
18		200 8			243				SALEMAN SALEMAN NO. 30
19		5E			60				
20	No. of the same desperation residency in the same	10 15			95			÷	
.21		50 E			110				
22		100 E			100				
23		150 E			115				
24		200 E			110				
25									1

DORIS VALE

CODE LINE NO. HOLE NO. DEPTH OF SAMPLE Ph (ppm) Cu (ppm) (ppm) (ppm)	Sb (ppm)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c cccccccccccccccccccccccccccccccc$	
100 W 150	
$ \begin{array}{c cccccccccccccccccccccccccccccccc$	
6 200W 195 7 100\$ 5E 135 8 10E 145 9 50E 90 10 100F 125	
8 10 E 145 9 50 E 90 10 100 F 125 11 150 E 60	
9 50 E 90 10 100 F 125 11 150 E 60	i
10 100 F 125	
11 150E 60	
11 150E 60	
12 200 E 60	
13	
14	
15	
16	
17	
18	
39	
20	
21	
22	
23	
24	
25	

CALPON HILLS

1 00 10 E 100 25 2 50 E 135 30 3 100 E 70 35 4 150 E 75 25 5 200 E 75 30 7 10 W 75 30 10 150 W 35 10 11 200 W 35 10 12 50 5 5 W 120 35 13 10 W 90 25 14 50 W 70 15 15 100 W 70 15 16 150 W 70 15 17 200 W 70 20 18 5 F 140 30 19 10 E 200 40 20 50 E 80 25	مراهيم والمراجع المساورة				/ 0 /	and the second s			
2 50E 135 30 3 100E 40 35 100 150E 45 25 100 100 150 100 150 100 150 100 150 100 150 100 150 100 150 100 150 100 150 100 150 100 150 100 100 150 100 1	CODE	LINE NO.	HOLE NO.	OF	<u>Pb</u> (ppm)	Zn (ppm)	<u>Cu</u> (ppm)	Ni (ppm)	Sb (ppm)
2 50E 135 30 3 100E 70 35 4 150E 45 25 5 200E 35 10 6 5W 95 30 7 10W 105 25 8 50W 35 10 9 100W 40 10 10 150W 30 10 11 200W 35 10 12 50S 5W 120 35 13 10W 90 25 14 50W 60 15 15 100W 70 15 16 150W 90 20 17 200W 90 20 18 5E 140 30 19 10E 200 40 20 50E 80 25	1 00	10 E				100	25		
4	2	SOE				135	'		
5	3	100 E				Fo	3 🗲		
6 5 W 95 30 7 10 W 10 5 25 8 50 W 35 10 9 100 W 30 10 150 W 35 10 11 200 W 35 10 12 505 5 W 120 35 11 14 50 W 60 15 15 16 150 W 70 15 16 150 W 70 15 16 150 W 70 20 210 17 200 W 70 20 20 18 5 E 140 30 19 10 E 200 40 20 25 10 10 E 200 40 20 20 20 20 20 2	4	150E				45	25		
7 10 W 105 25 8 50 W 35 10 9 100 W 40 10 10 150 W 30 10 11 200 W 35 10 12 $505 \text{ 5} \text{ W}$ 120 35 13 10 W 40 25 14 50 W 60 15 15 100 W 70 15 16 150 W 20 210 17 200 W 90 2c 18 5 E 140 30 19 10 E 200 20 20 50 E 80 25	5	200E	,			.35	10		
8 50 W 35 10 9 100 W 30 10 10 150 W 30 10 11 200 W 35 10 12 505 5 W 120 35 13 10 W 90 25 14 50 W 70 15 16 150 W 20 210 17 200 W 90 20 18 5 E 140 30 20 50 E 80 25	6	5 W				95	30		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	10 W				105	25		
10 $ 50 \text{ W} $ $ 30 $ $ 10 $ 11 $ 200 \text{ W} $ $ 35 $ $ 10 $ 12 $ 505 $ $ 50 $ $ 50 $ $ 50 $ 13 $ 10 $ $ 60 $ $ 50 $ 14 $ 50 $ $ 50 $ $ 60 $ $ 55 $ 15 $ 100 $ $ 70 $ $ 55 $ 16 $ 150 $ $ 20 $ $ 20 $ 17 $ 200 $ $ 20 $ $ 20 $ 18 $ 5 $ $ 40 $ 19 $ 10 $ $ 200 $ $ 40 $ 20 $ 50 $ $ 30 $ $ 30 $ 20 $ 50 $ $ 30 $ $ 30 $ 20 $ 50 $ $ 30 $ $ 30 $ 20 $ 50 $ $ 30 $ $ 30 $ 20 $ 30 $ $ 30 $ 20 $ 30 $ $ 30 $ 20 $ 30 $ $ 30 $ 20 $ 30 $ $ 30 $ 20 $ 30 $ $ 30 $ 20 $ 3$	8	50 W				35	10		
11 $200W$ 35 10 12 505° $5W$ 120° 35 13 $10W$ 90 90 90 14 90 90 90 90 15 90 90 90 90 16 90 90 90 90 90 17 90 90 90 90 90 18 90 90 90 90 90 19 90 90 90 90 90 90 90 20 90	9	100 W				40	10		
12 505^3 $5W$ 120^3 35 13 $10W$ 90 25 14 $50W$ 60 15 15 $100W$ 70 15 16 $150W$ 20 210 17 $200W$ 90 20 18 $5E$ 140 30 19 $10E$ 200 40 20 $50E$ 80 25	10	150 W				30	10		
13 0	11	200W				35	10		
14 $50W$ 60 15 15 $100W$ 70 15 16 $150W$ 20 210 17 $200W$ 90 20 18 $5E$ 140 30 19 $10E$ 200 40 20 $50E$ 90 25	12 505	5 W				120	35	1	
15 100W 70 15 16 150W 20 210 17 200W P0 2e 18 5E 140 30 19 10E 200; 40 20 50E 80 25	13	10 4/	-			. 40	25		
16 $150W$ 20 210 17 $200W$ 90 20 18 $5E$ 140 30 19 $10E$ 200 40 20 $50E$ 80 25	14	50W				60	15	,	
17 $200 W$ $90 2e$ 18 $5E$ $140 30$ 19 $10E$ $200 40$ 20 $50E$ $80 25$	15	100W				70	15		
18 5 E 140 30 19 10 E 200 40 20 50E 80 25	16	150 W				20	210		
19 10 E 200 A0 20 50E 80 25	17	200 W				.P0	2 c		
20 50E 80 25	18	5E		·		140	30		
	19	IOE				200	40		
21 100 =		50E				80	25	;	
	21	100 E		,		55	. 15		
22 150E 60 15	22	150E				60	15		
23 200E 50 10						50	10		
241005 5W. 50 15						50	15		
25 10.W. 30 15	25	10.W.				30	15		

		ORIS VA	4-1=	NT	Thom P	SON'S 7	Tockot	BARE	A
	CODE	LINE NO.		DEPTH OF SAMPLE	<u>Pb</u> (ppm)	Zn (ppm)	Cu (ppm)	<u>Ni</u> (ppm)	<u>Sb</u> (ppm)
1	100 N	200E				195	35		
2	-	150E				120	Зс		
3	MA RECOMMENSATION OF THE RESIDENCE OF	100E				95	25		
4	-	50E				150	25		
5		10 E				105	15		
6		5E				70	15		
7		5 W				90	50		
8		10 W				60	45		
9		50 W				55	40		<u> </u>
1(100 W				51	50		
1	·	150 W				45	2.5		
11	1	200 W	1			70	30		
1	50 N	5 E				105	25		
1		10 E	;			50	20		
1	5	50 E				160	35		
- 1	6	100E				100	20		
	7	150 E				90	A.5		
1	8	200E				70	35		<u></u>
9	9	5 W				150	35	1	
1	o	10 W				70	25	<u>J.</u>	
a	.1	50 W				55	10		<u> </u>
a	2	100 W				70	20		
-	23	150 W				45	25		
	24	200 W	<i>.</i>			70	30	<u> </u>	
	25 00	5 E	i -			145	35	İ	

CALIPON-HILLS

DORIS VALEAT

					17 811 5		-	11	
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	Sb (ppm)
1	54	16				55	20		
2	AND STATE OF THE S	17				45	25		,
3	poli deligoporente ante en a que en esta en esta en esta en esta en esta en esta en esta en esta en esta en es	18	Angelongs of Agellocation (Agellocation)			40	20		
4	ps -ecolographic pro-construction	19				40	25		
5	The second secon	20				55	20	1.00	
6		21		A MANAGEMENT AND A STATE OF THE		75	25		
7	•	22				80	35		
8		2-3				70	25		
9		24				30	15		
10		25				45	20		
11	f	26				55	15		
12	1	27				55	20		
13	i	25				65	20		
14	1	29				45	15		
15		30				40	10		
16		31				45	10		
17	1	32				50	15	esser.	
18		33				AO	15		
19	1	34				40	IC	-	
20		35				10	15		
21	1	36				30	15		
22		. 37				50	15		
27	3	38				Ro	1,5	~	
21	4	39	,			35	15		
2	4	40				30	10	-	•

PURISVALE NT

•				470 101.	1 MILE	112		1	CHARLES OF STREET
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	Cu (ppm)	N <u>i</u> (ppm)	Sb (ppm)
1		SL	41	Commission of the Commission o		15	210	1	
2	energyptemptem nie dentsten fentalis		42	and the second s		30	410		
3	ing Brightmanight with an annumbrid					30	10		
4			43			35,	410		
5			45			35	10		
6	yd a o o painteidiae y y agfarrastuurjimestifaari		46			30	10		
7			47			35	15		
∴ 8			48			30	2.2		
9			49			AO	15		<u> </u>
10		·	50		A CONTRACTOR OF THE PARTY OF TH	105	30		
11			51			105	30		
12			52			160	20		<u></u>
13	1		53			90	20		
14			54			70	25		
15			55			73	20		
16	1		56			120	25		
17	7		57			110	30		
18			58			140	35	~ .	
20			59			130	30		
2	d		60			65	20	-	
2			61			135	30		<u> </u>
2	2		62			70	20		
2	3		63			go	20		
2	<u> </u>		.64			25	15		
2	# C	1-1	1 1-1					<u>;</u>	

DORIG VALE

5 - Polin

-	the second secondary second	T	1	·	INVE				مه سول
	CODE	LINE NO.	HOLE NO.	DEPTH OF SAMPLE	<u>Pb</u> (ppm):	<u>Zn</u> (ppm)	Cu (ppm)	Ni (ppm)	
1	enteglegischen von derson er songenom	54	65			55	20		
2	en begroonspie sitt en e dinamenteren		66			55	10		1
3	· · · · · · · · · · · · · · · · · · ·		67			55	10		Î
4			68			50	20	!	
5		*	69			30	20		
6	-		70	·		30	210		
7	-		7/	·		80	35		
8			72			30	10		
9	the Park Carried States		73			70	40		
10	to the special		74			30	410		
11	Fr. make affrograph requirement of the descriptions		75			20	e		
12			76			15	6		
13	,		.77			3c	15		
14			18			20	210	-	
15			79			10	W.		*
16			CS			45	(C		
17			81			55	10		
18	Ì		82			70	15		
19			83			An	15		- Water State Stat
5d			84			70	25		
21			25			20	£10		
22	•		P6 !			105	30		
23			87			105	23		
24			18			130	20		-
25		21	-	71	1	2		1	



MINERAL DEPOSITS LIMITED

(INCORPORATED IN NEW SOUTH WALES)

81 ASHMORE ROAD, SOUTHPORT-QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA. 40438

DAR/sw

18 August 1972

Director of Mines
Mines & Water Resources Branch,
DARWIN, N.T. 5790

Prospecting Authority 2377 - July Report

Dear Sir:

During July geochemical sampling was re-commenced after the wet season.

A detailed soil geochemical program was continued in the Thompson's Pocket B Area to determine the extent of the zinc geochemical anomaly located last season. Sampling was completed and results are pending.

The reconnaissance stream sediment sampling program was extended in the Salt Lick Creek area to investigate the anomaly occuring at the limit of last season's program. Also in Salt Lick Creek detailed stream sediment sampling was completed in an area shown to be anomalous by last season's work. These sample results are also pending.

Expenditure for July was as follows:

Sampler \$220.00

Geologist 770.00

Overhead 500.00

\$1,490.00

David A. Rhoades
MINERAL DEPOSITS LIMITED

David a Phorde

for: D. Drake

c.c. Mr. D. Drake

LGJ/sw

7th September, 1972

Director of Mines
Mines & Water Resources Branch
DARWIN, N.T. 5790

Prospecting Authority 2377 - August Report

577

Dear Sir:

During August geochemical sampling was continued after the wet season.

Geochemical results were plotted and a small anomaly was outlined in Thompsons Pocket which will be investigated at a later date.

A sediment sampling program was commenced and completed in Bradshaw Creek and a program in Dolly Dolly Creek was commenced.

Expenditure for August is estimated to be:

Sampler	\$495
Geologist	770
Lab.charges	250
Overhead	757
	\$2272
	92212

L.G. Johnson

MINERAL DEPOSITS LIMITED

For: D. Drake

c.c. Mr. D. Drake, Darwin, N.T. DAR/sw

25 August 1972

Director of Mines
Mines and Water Resources Branch
DARWIN, N.T. 5790

Prospecting Authority 2377
Report for Year Ending 17 August, 1972

Dear Sir:

Enclosed please find two copies of the general report for the past 12 months, in fulfilment of the requirements of P.A. 2377.

Yours faithfully,

David A. Rhoades

Mineral DEPOSITS LIMITED

Ravil a Phool

for: D. Drake.

c.c. Mr. D. Drake.

PROSPECTING AUTHORITY No. 2377 Report for Year Ending 17 August, 1972

Prospecting continued for barytes and other minerals.

In September and October a field investigation was again carried out, locating new barite occurrences and further examining the rocks along the Dorisvale fault. It was decided to continue the geochemical sampling programme.

Both reconnaissance stream sediment sampling and detailed soil sampling have been accomplished. The stream sediment samples are taken from both creek banks initially at 400 foot intervals and at all creek junctions. Anomalous or interesting areas are resampled at 200 foot intervals. All sampling points are marked by aluminium tags attached to the nearest tree.

Sampling has been completed in the Salt Lick Creek and Pony Pocket These areas were sampled to prospect for mineralization occurring along the Dorisvale fault. Four areas are worthy of more detailed sampling. (see Bigure 1) At the junction of Bradshaw Creek and Pony Pocket Creek an area 2800 feet long shows zinc values at two times threshold and copper values at 1.6 times threshold. Most of the samples collected along Left Branch show zinc values 1.5 times threshold and copper values up to two times theeshold. These represent 5600 feet of sampling. outcrops along the creek bed in this locality. Along Salt Lick Creek an area 2640 feet long contains anomalous zinc values up to twice threshold values and an area 1320 feet long at the end of the creek also contains anomalous zinc values up to twice the theeshold value. All of these areas should be grid sampled to determine the significance of the anomalous values.

A soil sampling grid has been completed around known sulfide occurrences in the Thompsons Pocket "B" area. An area 400 feet by 300 feet has been sampled on a 50 foot grid pattern. This grid disclosed zinc values increasing at the northern limit of the survey. The highest zinc value at the northern corner of the grid is 1.65 times the threshold. This grid should be extended to the north. (see Figure 2)

David O Phoole

(David A. Rhoades)



MINERAL DEPOSITS LIMITED

INCORPORATED IN NEW SOUTH WALES

81 ASHMORE ROAD, SOUTHPORT QUEENSLAND, AUSTRALIA 4215

POSTAL ADDRESS: P.O. BOX 44, SOUTHPORT, QUEENSLAND, AUSTRALIA 4215

TELEPHONE: GOLD COAST 39-9055

CABLES: MINDEPOSIT SOUTHPORT QUEENSLAND

TELEX: MINDEP AA 40438

DAR/sas

4th April, 1972.

Director of Mines, Mines & Water Resources Branch, DARWIN, N.T. 5790

Dear Sir,

re: Prospecting Authority No. 2377 - March Report, 1972:

During March the wet conditions prevailing in the area did not permit field work.

A review of the geochemical sampling results was completed earlier. Attached please find a copy of a map showing the lead and zinc values obtained from the geochemical grid of the Thompsons Pocket B area. It is intended that this soil sampling program will be continued when the wet conditions have subsided.

DAVID A. RHOADES,

MINERAL DEPOSITS LIMITED

David a Phorder

. For: D. Drake

c.c. Mr. D. Drake, Darwin.



