Open File Envelope No. 2254

EL 46

EDIACARA RANGE

PROGRESS AND FINAL REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 16/3/1973 TO 15/3/1975

Submitted by Carpentaria Exploration Co. Pty Ltd 1975

© 20/10/1976

This report was supplied as part of the requirement to hold a mineral or petroleum exploration tenement in the State of South Australia.

PIRSA accepts no responsibility for statements made, or conclusions drawn, in the report or for the quality of text or drawings. This report is subject to copyright. Apart from fair dealing for the purposes of study, research, criticism or review as permitted under the Copyright Act, no part may be reproduced without written permission of the Chief Executive of Primary Industries and Resources South Australia, GPO Box 1671, Adelaide, SA 5001.

Enquiries: Customer Services Branch

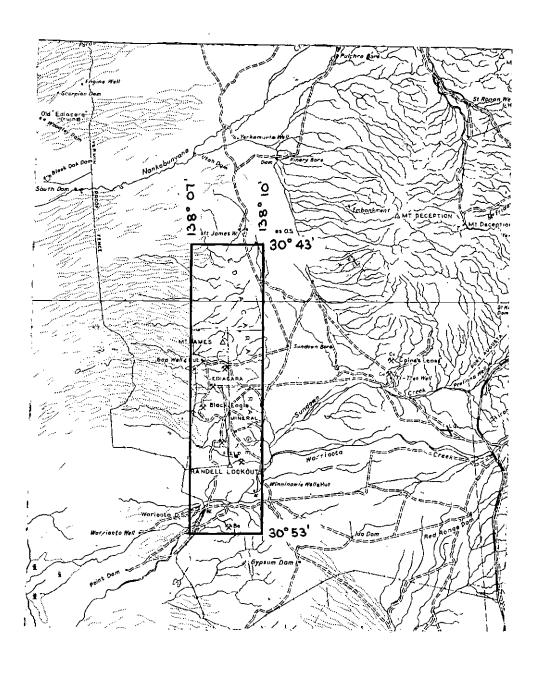
Minerals and Energy Resources

7th Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880





SCALE: 1:250000

CARPENTARIA EXPLORATION CO. PTY. LTD. DOCKET DM. 909 /72 AREA 88 km² 1.250000 PLANS COPLEY

LOCALITY EDIACARA RANGE - 25km. W OF BELTANA

EL.No. 46 EXPIRY DATE 15-3-74

15-3-75

OFFER 23-1-72

2254-5

CONTENTS ENVELOPE 2254

TENEMENT:

E.L. No 46 Edia ra

Plot Assay E45

TENEMENT HOLDER: Carpentaria Exploration Co Pty. Ltd

REPORT:	Quarterly Report to 16 June 1973	(Pgs 3-21)
	" 19 Sept. 1973	(Pgs 22-23)
	" 14 Dec. 1973	(Pgs 24-44)
	Progress Report for Quarter ended 14 Sept. 1974	(Pgs 45-47)
	Exploration Licence No 46 Ediacera	
	Jan 23 1975	(Pgs 48-49)
	Progress report for quarter ended 15 March 1975	(Pgs 49A-49B)
	Final Report March 7 1975	(Pgs 50-52)
	Progress report for quarter ended June 16th 1974	1
		(Pgs 53-54)
PLANS:	Ediacarda Grid	2254-1
	" Drill T48,12,E 45	2254-2
	Plots Assays T46, 46, 48	2254-3
	Geol Map	2254-4

000003

EXPLORATION LICENCE 46

"EDIACARA"

Quarterly Report to 16th June, 1973.

P. J. BINKS



EXPLORATION LICENCE 46. "EDIACARA" QUARTERLY REPORT TO 16.6.73.

During the last quarter the following work has been carried out:

Metallurgical investigation of "Cu-Pb-Ba ore".

The Technical Services Section of Mt. Isa Mines has carried out Metallurgical investigations of the complex supergene mineralisation in the Black Eagle Mine area of Ediacara. This mineralisation was intersected by our Company during the tenancy of SML.637.

The report by the Technical Services Section 6 presented in Appendix I.

Field Work

The area has been visited to site possible further drill holes.

26-6-73

P.J. BINKS

000005

APPENDIX 1.

Brief preliminary testwork is reported for two samples from the Ediacara leached zone, as supplied by Mr P.J. Binks, District Geologist for Carpentaria Exploration Company Pty Ltd, in Adelaide.

The samples are:-

QS 3422 (lead section) QS 3423 (copper section)

Testwork completed includes superpanning and flotation. Size-assay analyses were also carried out on the head samples.

CONCLUSIONS

- The low head grade of the samples will make economic recovery of 1. saleable products at acceptable recoveries very difficult and perhaps impossible.
- The most promising mineral in both samples is barytes, $(Baso_A)$, for which concentrates grading up to 49.4% Ba have been made by flotation, at a 2. recovery of 51% from an 8.3% Ba head.
- A copper concentrate of saleable grade (25.6% Cu) was made from sample 3. QS 3423 but at exceedingly low recovery (16.4%).
- The available data concerning the nature of the lead mineralisation indicates that production of a lead concentrate will not be possible. 4. Tops to form it will be
- Samples for any further testwork that may be requested should be placed directly in heavy calibre plastic bags or in clean drums, but not in sacks 5. as this has led to contamination by seed chaff and fibres. Also, bulk samples would be preferable to churn drill samples as these accentuate slime problems.

CC.

Technical Services Manager

Manager, Carpentaria Exploration Company Pty Ltd,

Brisbane

District Geologist, Carpentaria Exploration Company Pty Ltd, Adelaide Chief Research Geologist

Research Metallurgist - MJW

File

RESIR File

Flotation, Copper, Malachite, Barytes, MillingResearch. Concepts:

1. DESCRIPTION OF SAMPLES

1.1 Sample QS 3422 (Lead Section)

The sample as received consisted of yellow-brown earthy fines, solid lumps, and cavernous lumps of agglomerated particles. Lumps reach 4" in diameter.

Nominal head grades: 1.29% Pb, 0.36% Cu, 1.6% Mn, 8.3% Ba, 1.6% S, and 8.6% Fe.

Available weight: 32.0 Kg after crushing and assaying.

1.2 Sample QS 3423 (Copper Section)

As for QS 3422, but more earthy and dusty with less lumps. Lumps up to $1\frac{1}{2}$ " in size were noted.

Available weight: 20.3 Kg after crushing and assaying.

Nominal head grades: 1.01% Pb, 0.61% Cu, 1.7% Mn, 9.8% Ba, 2.1% S, 9.7% Fe. A size-assay analysis of the head and test results suggest that 9.8% Ba is too high and that a head grade of 8.7% Ba is more reliable.

1.3 General Mineralogy

Report CMS 71/9/9 and a supplement were provided, detailing results of investigations carried out by Central Mineralogical Services, Adelaide.

The general findings of this report were that the lead was strongly linked with Fe-Mn oxide phases and that no discrete lead minerals occurred. Malachite was present as small nodules, and barytes was present.

The degree of similarity of the samples described in CMS 71/9/9 with CS 3422-3 is not known. However, our work has confirmed the presence of barytes and malachite and also that the lead and manganese are closely associated. A blackish-brown "Mn oxide" mineral was prominent in panned samples. Yellow sulphide minerals are present in trace amounts. Binocular microscope examination of copper flotation products indicated that very minor cuprite is also present.

2. FEED PREPARATION

The supplied samples were individually jaw crushed and then roll crushed to a nominal top size of 10 mesh Tyler. Representative samples were then cut out for assay, and about 8 Kg of each sample were then cut out and split by rotary sampler into 1 Kg lots for laboratory testwork and for size-assay analysis.

3. SIZE-ASSAY DISTRIBUTIONS OF HEAD SAMPLES

Size—assay distributions from 10 mesh to 400 mesh and of infrasized minus 400 mesh material were obtained. Data for QS 3422 and QS 3423 are given in Appendix Tables 1 and 2 respectively.

The close parallelism of the Ba and S distributions through the fractions confirm barytes as the only significant barium mineral present, and the very low content of sulphide minerals is also confirmed.

An assay and distribution discontinuity occurs at 65 mesh, the plus 65 mesh fractions being of noticeably higher grade than the minus 65 mesh fractions. The reasons for this are obscure. Ba and S seem to cross this discontinuity with less of a drop in assay values than shown by Pb, for example.

4. TESTWORK

4.1 Superpanning

A Haultain Superpanner was used for assessing the amenability of the samples to gravity separation. Feed was prepared by screening out the plus 65 mesh material and desliming the minus 65 mesh material by decantation.

Superpanner concentrate and slime-laden overflow were removed and collected separately. An initial concentrate was subsequently repassed and split into a final concentrate and a middling product. A diagram-matic flowsheet is given in the Appendix, Figure 1.

Superpanning tests carried out on samples QS 3422 and QS 3423 were OG 211 and OG 212 respectively.

A certain amount of fine ? seed chaff was found to contaminate the samples. Most of this remained in the tailings.

4.2 Flotation

Most of the flotation tests were directed at recovery of barytes, for which several potential collectors are available including Aero 710, 801, 825 and 845. Aero 710 was used in tests OG 210 and OG 215 using sample QS 3422, and again in tests OG 214 using sample QS 3423. Drymet' sodium metasilicate was used for slime dispersion in all barytes flotation tests. Removal of primary minus 400 mesh slimes was employed in tests OG 210 and OG 214.

Malachite flotation using sodium sulphide and sodium secondary butyl xanthate was tested on an un-deslimed sample of QS 3423 in test OG 216. Sample QS 3423 was selected for initial testing rather than QS 3422 because of the observed greater content of malachite particles in QS 3423.

To prepare the head samples (nominally 10 mesh top size) for flotation, grinding was carried out on the plus 100 mesh material for tests OG 210, 214 and 216, and on the whole sample for test OG 215.

4. TESTWORK (Continued)

000009

4.2 <u>Flotation</u> (Continued)

Minor fine chaff present in the feed samples became ground to flour during feed preparation and may have adversely affected flotation selectivity and reagent requirements.

5. RESULTS

5.1 Superpanning

On account of the high specific gravity of barytes (4.3-4.6), it would seem that barytes would report to the superpanner concentrate along with the other heavy minerals expected to be present - eg. Coronadite (S.G. 4.7-5.0); Cesarolite (S.G. 5.29); goethite (S.G. 4.3), etc. However, it was possible to make a fairly clean barytes concentrate and to restrict the dark Pb-Mn-Fe oxide grains largely to the middlings and the tailing. This suggests that these dark grains are either porous or contain substantial admixed light gangue minerals, as suggested in the mineralogical report supplied (CMS 71/9/9).

In both tests OG 211 and 212, over 50% of the lead, copper and barytes was contained in the plus 65 mesh fraction which was scalped from the superpanner feed. If plus 65 mesh material was lightly ground and then superpanned, the overall recoveries could be approximately double those obtained using minus 65 mesh material only.

Test	Sample	% Ba	% Recovery
OG 211	QS 3422	52 . 1	18.7
OG 212	QS 3423	52 . 9	15.2

Test data sheets are given in Appendix Tables 3 and 4.

Excluding metal in the plus 65 mesh fraction and metal removed in slimes, the bulk of the lead manganese, and copper reported to the tailing.

5.2 Flotation

Sample	Test	Conc. Grade %	Recovery % of Head % of test feed
QS 3422	OG 210	49.4 Ba	51.04 63.25
QS 3422	OG 215	31.9 Ba	65.89 65.89
QS 3423	OG 214	29.9 Ba	51.33 71.83
QS 3423	OG 216	25.6 Cu	16.38 16.38

Test data sheets are given in the Appendix, Tables 5 to 8.

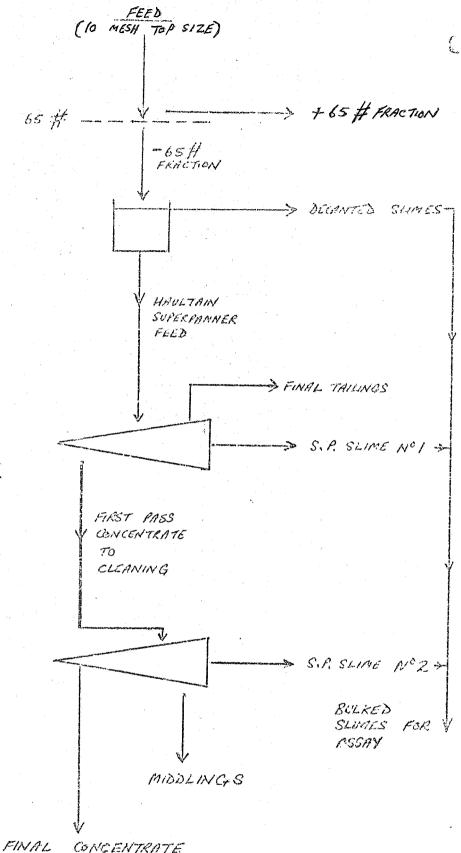
6. EVALUATION OF RESULTS

In terms of recovery, flotation gives superior results even allowing for a doubling of the baryte recoveries obtained by superpanning.

Depending on the intended use, specifications for barytes concentrates range from 83 to 97.5% BaSO₄ with limits on Fe and other impurities. For drilling mud the product must have a minimum S.G. of 4.3 and have not more than 5% of plus 325 mesh particles (44 microns): Fe₂O₃ must be less than 1%. Some of the anionic reagents commonly used to float barytes are detrimental to its use as drilling mud and must be removed from the particle surfaces by heat during the drying stage.

While the best preliminary barium concentrates obtained (49.4% Ba) correspond to an 83.9% BaSO_A content, the Fe content (1.1% Fe) is on the high side. Refinement of test conditions could almost certainly improve the product grade and recovery. Whether the processing cost would allow the product to compete for a market with other currently operating South Australian deposits of near-pure vein barytes is however doubtful unless this mineral came into very short supply.

Despite high consumption of sodium sulphide and xanthate, the bulk of the copper in test OG 216 remained in the tailing. While this performance could almost certainly be improved on by further testwork, the grade of this sample is so low for a copper oxide ore that the cost of processing is not considered justified.



DIAGRAMMATIC FLOWSHEET FOR TESTS OG 211
AND OG 212 ON HAULTAIN SUPERPONNER

HORES	Lozoratory testing	REPORT	METALLURGIST:	**************************************	Carlot dia Transformer-se desegração	A.PRESENCE PART SHALL SHE	IC/C or	₩/0:	on the second	**************************************	TEST	10:	1000	-	TOATE:	eer ti dage ti ee a tannin a		de la companya de la	Military on appear process is a	Manager and a series	الله المحددة ا - المحددة الم
The state of the s	453 — 5/73 Ф Тите от	andre a comment of the comment of th	The second secon	M. W	シベナ	Name Chicago and and an annual and an annual and an annual an annual and an annual and an annual and an an annual and an annual		465				04/	\$1961.6 98343	22 ·	ó	2/9/	7,2		CRE	1/10	us
المناور المنيود واستنجموهم	FRACTION	i .				ASSAY	%	7			CUNTE		naraman carakangsa <u>s</u> apasar		C15	TRI EUTI	ON %	Think Book Burn Principles	Particular succession of the success	Meri estanistani Panasanut a	racjadasi i jevniča u čestici i nasunu.
Master Trans	Наже	% Weight	% Weight	Pb	Cu	Fe	S	MA	Ba				Pb	Cu	Fe	18	Pin	B.	DAUSS	CORDENTS	
	+10 1454	3.44		1.34		 	-	1)		-		I THE WASHINGTON		Commence or manifester		-	235	POOTER ANGENIER AND AREA TO A		ده میدند. ۱۰ میده میدندوهید
	-10 +140 a	5.99		1:57				7	1				7	12	.6	1	1	6.36	,	g for	•
	-14+20	7.5/		1.66	0.44	6.1	2.5	3.85	10.3			1	1	Si	i	i	i	243	1	- My Co	Sing.
د در	-20 +23	6.73		1.71	0.43	6.4	2.8	3.85	12.0					17)	:1	1	8.97	1	tossay	
	-28 +35	5.36		1.60	0.41	6.4	30	3.60	13.8					4	•	ŧ	1	902		able 23	
	-35±49	5-18		1.48	0.37	6.4	3.2	3.00	13.8				A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1		8.72	1	assay	
	1-48 + 65	4.75	38.36					-					4 7 9 1	•	1	1	1 .	5.46		ailable	: / '/ .
	-65+600	4.73	Fig. 5 is profit to the control of the control o	0.94				7		ļ			3.79	297	<u>:2:93</u>	5.94	4.10	635			
ر از	-/00 f /50	5.57	1	0.63	1				12				2.99	240	2.44	4.76	2.95	5:44		ارون کې د د د د د د د د د د د د د د د د د د	
	-150 F200	5-4-3		0.59		5. 4	l	1	1			 	2.72	2.26	2:24	4.91	2.45	5.Ze			
	-200 +270 -270 +325	2.80		0.57														3.52			
	-325+400	2.26		8.62							<u> </u>							309		e e e e e e e e e e e e e e e e e e e	
	227400	60.86	60.86	0.70	0.22	343	J.2	0.84	11.9						And the second second		4.170	248		بيد نيد نيد سه معارضي	
			60.86								ļ		63.37	56.24	41.84	75 29	85.35	. ?2:57 	-		
													<u> </u>					<u> </u>			
										****		ļ	4.4.4.4			- 100 (000 1000 100					
																					A Comment of the Comm
										1											
The state of the s	and the second state of the second	Talkara de la	Maria de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de		- · · . I'		of some A			" " * e . N	l e e e	Properties and the	\$ 2 a 4				A CHILD	j			State 1

TOTAL CONT.	120NAFORY TUSTING R	EFORT	METALLURGIST:	しったて			C/C or	470: 65			TEST NO	1500	1012E 3425	i i	DATE:	28/1	172		0 75		2086	
SA CARE 40	er om annansatur i prinspir var remanent habbennapennen avannarade meta positionen etaile.			00K (and the second second		MONT MINISTER BEDGESON'S	65 					3400	Commence and		TRI SUT I C	ener spansky poles to des	والمستبدية والمستبد	المراجعة والمراجعة و		uringa engae, gan ije	
	FRACTION			 	₁	ASSAY C	0				CONTENT				0151	14130116	in je		DRUSS			The second second
North Control of the	Name	% Weight	% Weight COM	Pb	Car	Fe	S	Mn	Biz				Pb	Cin_	15	S	Ma	Bo	namen weinweinliche von der B. (1994)	CONSIE	ME	Control of the second of the s
The state of the same against and	IMPESIZING OF																					e de la companya de l
\$20 MV 27	- 400 F PENCTION				·					ه جا مِن رب شد					. page - see see -	معه هدرجه وبرهم] 				The state of the s
المراجع		na har we we see the first state of	مع سعد القابلة معاد المام الما																			
والمراجع المراجع المرا	F/	0:3/																	<u> </u>		(f.	
	F2	0.2/													ange anne anne an e ta		ļ			رین سر ب آمری		A STATE OF THE STA
	F.3	0.77	1.29	1.34	C.73	8.4	5.4	0.85	18.6				1:47	2-67	1=40	3.51	0.61	2.93				The second secon
	F4	2.90		0.7/	0.44	5.6	2.5	0:75	7.8			ر ع د د د د	1.75	3.66	2.09	3.65	1.20	2:75				
	F5	2.85		0.72	0.47	6.6	1.9	0.64	7.7	. به مورسد سورسدسو			1.75	3.83	2.43	2.73	1.00	7.68				
	F6	1.64		0.74	0.67	7.4	1.9	0.63	6.ix				1.03	3.14	1.57	1.57	0.57	1.28				
	F7.	30.46		1.18	0:35	12.9	0.8	0.67	209				30.60	30.46	50.68	12:26	11-27	10.77				
		39.14											36.60	4.3.78	<u>58·17</u>	.23.72	14.65	30.42	ļ 			A CONTRACTOR
																ļ		ļ				
																				-		Charles and Charle
	1400 H	60.86											63.39	56.24	51.84	76.29	85.35	77.57			ر در از در	And the second s
	-400 #	39.14											36.60	43.78	58.17	23.72	14.65	20.4	<u></u>			1
		100.00											99.99	100.02	10.01	100.01	100 00	60.01				1
	CHED HEAD			1.17	0.35	7.75	1.98	1.81	8,2													S.
	RETURN MARTINE AGE	<i>w</i>		104	0.31	7.4	2.1	1.72	8:3		\ \\											
	Norman ASSAY FIE	*		1.29				1 2						•	announdament and			m 2 11 1 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2	13 HOLY 1000 CO. C.			

 $\mathcal{A}_{\mathcal{A}}(S), \, \gamma_{\mathcal{A}}$

Horaequi	labonatory preting i	REPORT	METALLURGIST:	Magni aller e salende de e se al manure su	A CONTRACT OF THE LO	d aarek da surinnyaya asy	C/C or	W/0:	agerie aircione. He di a	- Production of the State of th	TEST I	0: /	7.1	e annoncia propriatorio s	DATE:	en alarmen nimer e n	To realize Arth Later Constraint	rei vanc	organizations and transcript about the trans-	on and the contract of the part of the contract of the contrac	een again saasa (
a see a market of the engineering	767 5773		11.	いいパフ	, a	T. John Steffen Steffen (von deutste gestelle		465			OG	105	2007, R. E. 342	- 3	24	19/2	2		Urite :	and the	
1880, 1880 - Jahren er 1880 pape under der Standard Stand	FRACTION		<u> </u>		·	ASSAY	%				COMPEN	7	460MM to the state of the second seco		015	TRI GUTI	ON %	hade enseinain taluge gio	Con an	148434C-14C-1756wgu	المساحد المساوا
The state of the s	No.ne	& Weight	% Weight	Ph	Ca	Fe	S	Mn	Ba.				Pb	Cu	Fe	[S	Ma	Ba	DROSS-	COA EÍTS	
and the second s	+ 10 MESH	4:41		1.14	1.10	6.4	0.9	3.45	-				Parameter survey of the second	-		1	1	1.95	t nya mar-uju mpi mpi mpi jamoy subjugo nya k	assays	
	-10 + 14 u	7.75		1:38	1.18	6.9	1.5	4:10	5.9			ļ	1 .	53	i	í		5.46	1	ble 28/10	/72
	-14 + 20 H	8.07		1-46	1			1			 			! !	Í	1	1	7.81		usays	
	-20 + 28 4 -28 +35 4	6.88		1.49									1 1	i i			!	8.26	avair	able 1/1	1/72
	-35 748 4	5.62 5.77		1.50			1			7			1	-7: <i>31</i> _			1			·	Activities of the second
	-48 +65 4	4.69	43.19	• •			1	3.00								. ,	1	10.13	1 1	-	
	-65 + 100 h	3.43		1.01	WATER STREET,	-			1		- to to an in-		5.88						-1 -0, in de un ma		mentioned general
	-100 + 150 4	3-16	the state of the s	0.87	4	1 4 74	1					1000 300	3.44	1	. 1						
	- 150 + 200 4	3.39		0.55			}	1: 1					2.74_ 1.85_	1. 20 M J 3							
	-200 + 270.4	2.20		0.54			1	()					1.18		3		1		والمراجعة المحادثة المحادثة المحادثة		William Andrew
	-325 +325 4	2:11		0.59				1	,				1.23	917							Action of the second
	-325 + 400 y	182		0.62	0.38	4.2	3.3	0.77	12.6				1:12	10 M							- The contract of the contract
		\$7.30			- o win		· · · · · · · · · · · · · · · · · · ·		ages distribute grape to the	in and the second		Sec. 15. 20	71.06	1	1		a ander recontract and shall	THE REAL PROPERTY.		ere mene mane, and anex packing	Secular verifica
		43 Maria atanana any ary any any any any any any any any any an														***************************************			and the same and the same and the same	COMMENT AND AND AND THE SECOND	
																				-	
														(<u>-</u>	• • • • •						
المستوالية والمراجع		-				-												- 1			

is usuan	LIPORATORY TESTING	REPORT	METALLURGIST	*	The Control of the Co	At Manda (2004) objects	[C/C 6	r W/0:	transmirrina and an	· Westpersonal St., LPs. President	TICT	* (^ -	an an annual contact of	riconistra de representaciones segui	is open south in speciments	C dook is to extrapos, raises		UUUL	LU			
	NET 5/71	Contraction transfer and the second	M.	WORT			1	465			TEST	1	877.77 8 340	É 2 2	DATE:	26/9	/70		CIE		5140	F S Professor
ti.	FRACTION		The second secon		pana maran-ari marancakana	ASSAY	1%	"Manhadi negué gi w		Contraction of the state of the	-36415		and commission the			O ORDER OF STREET, STR	AND MEMORINA	esci maministis et continuo sem	afond adequate to man wrong		erinas akradaria anglikus,	-00 S -Please
Frank og f	Name	Weight	% Weight	Ph	Car	Fe	İs	No	12	T	T		T			T	ION %	7	DROSS.			
الله الله الله الله الله الله الله الله	INTRASIZING OF	The state of the s	Desired a specific for the second manage species	4	The statement and the	1/2	12	Par	Ba	-		D'A COMPLEMENTARY	16	Cer	Fe	5	18/1	Ba		COME	US.	
	-400 # FRACTION			1								ļ				ļ	ļ					
e mare i sime andresi i impaga assi dagi a				7	1	 		-	1		1			<u> </u>								
	LEF1			1		 -	 	 -		 			 			ļ	ļ				السانية مداشت جا	
	F2	0.05							#	 		 -	ļ						~~~~~~~~~~~~		رس ساچند د	···
	F3	1.66	1.7/	0.85	0.46	5.0	5.6	0.7/	20.8		ļ. <u>.</u>								The latter spin was the was too	. 		<u>.</u>
	F#	3.50							8:40				134	1.07	0.99	4.46	0.61	4.25		**************		
	[[5	3.50							5.5				1.88	1.84	2.26	3.58	1.08	3.5%				: د سد د
		2.22		0.55	0.4/	7.2	1.3	0.57	4.4			=	1.88	186	2.58	2.93	1.01	2:34				
	F7	29.77		0.76	0.55	12.5	0.6	0.64	2.2				1.21									
		40.70						<u>-</u>					22.51				The state of the s	The same of the same of			· 	
	THE RESERVE WHEN THE WAS COME AND THE WAS THE WAS THE WAS THE	Not not live only little new later have no											28-92	28.17	50.58	20.62	13:24	19:45		·		
																					<u> </u>	
	+ 400 #	59.30																	-		را بند بند بد	
	400H	40.70								., -			71.06								· • • • • • • • • • • • • • • • • • • •	
		100.00											28.92									چــــــــــــــــــــــــــــــــــــ
	- ATURE BEST			0.96	0.7/	8.3	2.2	1.95	8.7				49.98	20.0/1	(20.00	w.0/	102.01	22:28				ļ
	CREVINTER			1.01	0.74	8.67	2.15	7.98	812													
	NOMINAL HER	D MSSAY		201	0,6/	9.7	2.10	1.70			<u>,</u> -			-/- -					The same of the sa	,	1	

	Comments in a Comment in the Comment		topos of the state	ar ar	, Agai				197.4		1.26%	- 1998			16	3	Mark Fr		and the	Garage Angle Janaharan		
et, A	AATORY TESTING H HAVETAIN 51 5/71 SOPERIM	V	Metallurgist: M. No.	ls.3.,	isqui	È	C/C or		5		TEST N	197	211		DATE:	10/72	7	The Cartery soon myster 425	ORE		SL4G	
	FRACTION			(* w)		ASSAY (%				CONTEN	T _i			DIS	TRIBUTI	ON %		Doors			congressors.
Nuclea	Name	Weight	% Weight	Ph	Mn	Cu	Ba	Fe	Pb	Pln	Ca	2	Fe	PS	Mn	6	Pi	Fé	DRCSS	COAGMEN		<u> </u>
	+ 65 FRACTION	3/1.50	40.82	1.49	ON WHEN THE RESIDENCE DAY	-	-	-	60.82	tament o servere		-	-			The same of the Assessment	-		Ring	-	1.7 Sam	D
	Consoned Starks	303.72																	- 11/20 - C. Eq.			yee
	SUFFERTINGER CONC.	23.65	3.10	1.27	0.66	0.13	52.1	3.1	3.9%	2.05	0.40	161.51	9061	3.36	1.15	1.51	10.7	1000	tra	- 4		
	בסתעונטית ב	11.66							3.03											1 -1-2		
	4 7111_	112.50																	Same	E OF	 ? 34.1	12
		763.03	100.00						117.24													
	Nown hora a	LAR.		1:29		1.00													Feed	, 15 G	ntamu	ated
												*1							with			
					ruce	GART T	<u> E5 =</u>	<u> 58</u>	85%	<u> </u>					-2-2				chaff			
		بياسيا يتنفر هند ويتها متهاد دم المدالتها	······································		52./		60		BARYT										00			
					58.85	· .	08.2										ļ.,				-	
										- 200 (11								ļ 				
)	The same of the sa	THE THE SET OF THE STATE STATE SAID THE SET OF	ورو سيدريون ويو يطو نوير دوي يور يدر				No. 1870, April 1870, and a	- 180				non open speek kan								. شو سا سام	ر نبد بد بد حد	The stampers to
والموسد والمواد المحاد									<u></u>			* *** ****** *** , «									سد من مساد مساد سد	-
5 · · · · · · · · · · · · · · · · · · ·																						Parlie category
		ي پيدايد يو بيد شو مد مد								<u></u>	d Prigar Man Franço		-					ļ				
,	The second secon	والمهران المهدانية المداعد مدامت الدواخرا						,								Alle the part was						
2																				ر سو بو سو دو د		
- The Control and the Section and Sequence product	mick - Cord date 4 and authorized description and the property relation of the property and the cord of the first and the cord of the cord	Leg work project the factors of Minister.	THE PARTY TO SHELL SENTENCE STREET STREET	Charles Annual Control	S	MARKER MARINES OF	and the street of the street o	AUTTRE 1 DE SOUR ES PAR SO	ac 105 H29 St ™ E. DiRació	enchares estat occ.	a 1 - Augustus	FORT MARIE	markan dan sal	- ment expense i	e . Her lenda tot europaksen de	NOME of said because garage of	CONTRACTOR CO	Essant erve, sense cons	angerijak-jado 1800 jiliyar- elektasiskijang	ik ATTIKS Type: WillSude		

ISA MINE (SO IC) (6/1	14		Mr	M	. WOF	27	9 . A ?		$\mathcal{O}\mathcal{E}$	NO. 2270	Line	70/1	2 1
General Description of		116	3MW2.6										
Test Procedure		EDILL	AKA_	<u> </u>	1. P 15 Jun 200	22	Symple	7.G.					
COMMENTS : -	-100 \$	FRM	c Teary	RECH	(suni)	1. 1.	VCKE	0 6	2711	e sur y t	· 740	off FR	ACTION
FROT'N F	600 0	Py WE	3647°	609	15 gr	<u> </u>	e.w.	2.74	CEL	4- 7	50 RM	Z	
FEED IN	WED!	Bur	d 3,00	breyto	<u>is</u> 5	1/2_	class	E.Ga	es/s	Brek	Crista	beh	ind
137 fs. Ca	8W.!	White	Leave	is 60	and.	Also	Ore	بجريب	66	al ar	<u>w/ 87</u> 00	L. Gire	9
200 RO, CO	· Vr	Fireth	1 dish	a 16	21.16	Fil	st,	Giver	<u></u>		kanang sebagai ang manggan ang mga kanang mga mga mga mga mga mga mga mga mga mg		·
200 Ros Tr	916:	Dais	1201	-bran	hi	north	e U	raid	. /	to be	ustie 1	For ned	-,
300 Ro F	unt: 1	A pros	v ôle h	air-hi	re é	16	ta ck	Len	2 41 S	1/1/20	day	Encol	
			hearrie.										
the property of the property of		<u> </u>			4. 17	y! 4/1					- April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Operation	Time	- mins.	ph		ML3) <u> </u>	Reage	nts Ibs,	ton-	- E/E 10))		
	Cond'g	Float		AERO 7	10 Dicy	nET .		ļ					
PULP 4V COL			8.5										
CONDITION	6		9.8	5.13	1 10	2							
1ST RO. PLONT		2	<u> </u>										
2nd n u	No ter english	2	مسبحث بثيث كرياد	1		55	· · · · · · · · · · · · · · · · · · ·						m z smjrm sm.
AGITATE	14	1	7.55					ļ					
COND	1			5	2	1/2				·			
3 PO RO FIONT		31/2											
AGITATE	91/2												
COND	2			5	5								
4th RO. FLENT		3	10.25										
PATTOTE	5						4 2						
COND	2			10									
512 Re. Fint		_3											
RONO CON: 1stcl		2					· 	2-	1. 0	:526			
2m2 CL. CONIS	1		10.2		3			1.3	4	eerl			
FINT		2											
TOTAL MLS				25	20	4/2	·						
9/forne				2050	167	3							
				TES	T RESU	LT							
	64 314		7	ASSA	Y %		•				RIBUTIO	i	1
Product	% Wt.	PL	Ma	Ba	Cu	Fe			op,	Ma	But	Cu	re
ZIP CL-CON	13.82	0.37	0.38	49.4	0.06	1.1		1	.30	2:17	63.25	1.88	235
2MCL. TAIL	8.52	1.12	2.10	21.9	0.56	3.4	6	5	02	7.40	17.29	10.78	4.47
1st ec. THIL	15.14	1.63	3.50	10.3	0.64	6,2		2	0.76	2/192	14.45	21.90	14:49
RD. CON 2	3.99	1.94	4.05	8.41	0.63	9.9		6	·5/	.6.68	3.71	5.67	6.10
Po. CON 3	12.07	1.73	3.75	1.18	0.51	8.9		17	1.56	18.72	1.32	13.45	16:53
BO COV Ke	8.58	1.20	2.55	0.3.2	0.33	7.5	-	8	· 66	9.05	0.25	7.37	2.23
Roi CON 5	18:41	1.15	2.40	0.12	0.48	8.7	7	17	1.81	18.27	0.20	79.98	19.04
BO TIME	19-47	1:00	1.96	0.07	0.42	9.0			5.38	15:78	0.13	18:49	27.05
JEST HERD	100.00	1.19	2.42	10.79	0.44	6.4	8	18	2000	199.99	100.00	99.99	100.001
										<u> </u>			
MOTN EED			1			1	8			100000	80.70		ļ
1 = 420 ft 31111 55	STATE OF THE PARTY OF PARTY.	and the same of the same of	4.50		Annual Contract of	print the same of the			- 11.5	1	19.30		
CARCO HED	100 00	1.18	1.76	8-28	9.27.	1 munit.		A Property	ン・ ()() いっこ	140.00	1.60 470	11.20.00°	
Commercial 14.600		1.29	1.6.	9.3	036	18.6				ļ.,	ز درسید	ا مستشر و	
		ļ	Į.,						د در مستورين لا در	9/	1000		5
gen warre a another bear	The state of the s	e a la semie usono mandras	* 63	-25%	of 80	707	13	5%	04	10 of	HEAD B	a.	t g was me

S

The make a make a many proper paragraph of the control of the cont	enderstare commissions was	COLUMN AT THE PROPERTY OF THE PROPERTY OF	wintersonality transcr	NGB) or designation and the con-	este che montelle	a standardo es	pe transpropries on the	NYMATINANI ERLANDENIE	aranabat tra at mora namab	paramete areas or and the	era a traca tata baseensa e	mentingungs and out .
i proper vest	en er e		ht.	CIALLU	RGIST			1.15	ST No.	1.	MTE	
1 1 Y WHIT 450 (C)	ertinen, om en linen v	1		_12:32								
Post Possedine	(i)	EDING	ARA	QS 34	600	OXE	- 302008 197 - 755 -	500 TX	CYNET	ひこ いこ	م المراجع الإسلام وقد العسر ا	OA TING
COMMENIS: /	105 1000 1	ta CC to	CARTAN	ral mar			د از	(1944) (1944) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	71461	100	13/1/	<u> </u>
Floo MEST FA	ACTION:	Con Far	MS 110	lachile	put	cks n	y to	3 /4 m	r cha	raseris d	C BECI	21176B
7100/465/1:	Come	4/1.01	4 81	1 8.1	1 ch	160	1	100000	1019	10 note	5%	شد واد ویراد
# then second	l l	-22	a since		2/3 (101	jor Il	2 4	20172		10 2	7/4/
De Mi	eney	14.16	nes r s	J Salah	1 1 CE	108	JUS.	LET 400	<u> </u>			
RO. NOT:	Anta Ch	13000 g	GO/K	J. See	ue U	1060	103	pulp	1 N-	woldy	<u> </u>	
RO Nº2:	Louby	cenci	carre	52 B	The 160	2 (2)	nels	ers 1	achite	Cano	1:1	
3rd Ro	10851 K	arel.	Toil	shill	Gentra	9 45	firme	1- (200	a ma	lachit	c 1249.	helis
18+ CL :	7mcc3 67	l dock	Green	Jan 1	to B	91 .	after	1/2 (eein Fu	n,		1
JET CL:	7!	BMC. A	125 -	100 m	eth (I), pelessi	19 ac/	From. C	helconu	they are	liling l	Hy Mist
	1	mins.			MES		*			ton		
Operation	Cond'g	Float	ph.	5.70		6	10.51	115 1057 10 12075 19182				T
Y ROH GRIND			a an more	11.40	61 16		250X	14/85				ļ.,
	1		F103									46.73.4
(end			V 10: 1	5	_ /	2	retines in Laboration				5.34	cir
	-											
Fr. HT RD. 1.		2					5	2/	Early &	oic on	pun:	mound
PSITATE	8							- C	rue yel	1.03 Sala	Marai.	1.18 / -
Cond	14		110.3	5	5	•	5	Ş. (3.2)	7	1,000	12000	
Ro. 2 FRONT	7	40	10 3	1 -								
	-	<u> </u>	 				_					10000
Corio	de	 	10.3	5 5			3			(i - i - i - i - i - i - i - i - i - i -	13 (19)	1 4 4
Ro. 3. Front.	-	4						1				
			10.1			\$45						112
RO-CONS	EVLK (1)	Bren	1210	wea -	70 50	772	6 10	7	floor .			
1st CL. Com	6		17.8				2				7 777	
CL. 1		5	13,10.30			•	Den				212	CELL
	-		20.1									13.4.03.
	-	19.95	10.1	2								
GOAD	/										1.32	CEEL
2m) a. Pront		21/2				7. 2.		×. (***)				
& SCAV		3	100			3	1	2			Às a s	
300 CL. FLOTT		2+21/	19.8	Sar 2	1 1	6	1.5				,3	42.1
e corrant			<u> </u>					1			*	
and hands of garage and the second	1		· · · · · · · · · · · · · · · · · · ·		r resu	LI	-					1
Product	% Wt.		1 - 1	ASSA	Y %		4			REBUTTO	N %	
		Cu	Bal					Cu	Bei			
310 CL. CON	0.41	25.6	8.1					16.38	0.41			
300 CL. THIL	2.84	1.4	30.6					6.21	10.86			
											1	
						1973					-	
2ND CL. TAIL	3.24	1.30	100	1	4 2 4							
10-	2.0.4	1.7.5	1209						5.22			
15% CC. TAIL	14.14	0.63	7.4					14.17	13.32			
endant man committee en e						36 (3° 6) 10 (1)						
eller restamm till i stil e en er sier sor i mandene i stilming opposition restamming og by til semme om												
RO. TAIL	79.10	0.46	47.1					54.7	70.18			
en erre en granden et er en en erre en erre en	100.00	1	The second second	A COMPANY AND PROCESSION OF THE PARTY OF	hat any feet and arrows	Contraction of the Contraction o		والمعين وونان أوالمدووة والمرابع	99.99	pengers mirror	- eremaneum	-
a a conserve se que en acomo en		to be the contract of the first of the	de companya de la com	kurralite po unt ex		Teleparation		in cor co	171.77			1
Morrisons (46)	7	10.01					 					
2000 650 Ag ATTO	14545_	ļ.,	8-7			-	4					
Annual transfer and			SSBX		MLS	_≡_8	320,91	Honne		2		1
REAGENT COM	SUMPTIO	NS: 1 2	RYMET	22 M45	= 110	09/10	ine: 1	195 2	4 MLS =	= 1200 d	Honno	
	* Sus.	PECT S	AMPLE	CONTA	MANATI	ON		V rent	The Control of the Co	TABL		1 2 2 6 6
			1		* 4	97 Er (m. 144)	ok plane o Palitikasi	النبية حسومها النبية المساها				

Carpentaria Exploration Company Pty.Ltd., 3 Greenhill Road.

Wayville,

S.A. 5034.

19th.September 1973.

The Director of Mines,
Department of Mines,
Box 38 Rundle Street P.O.,
ADELAIDE. S.A. 5001.

RECEDENCES

2 1 SEP 1000

1 DUPT OF HERES

CORRESPONDENCE

REANICH

Dear Sir.

Quarterly Report E.L. 46"Ediacara" to 16-9-1973

Drilling has just started to test for possible down dip enrichment of the copper, lead, barite mineralisation intersected by our Company in the Black Eagle Mine area at Ediacara. The first hole (T46) is currently at 122m and is just entering the leached zone. The first 91m of this hole were drilled through fresh dolomite by rotary drilling (percussion) methods. Atthis depth diamond coring was started and NQ core is currently being taken. Severe drilling problems are being encountered at the present time due to loss of circulation in cavities. Drilling is being carried out by Longyear of Australia using their "Air Core 38" rig.

The statement of expenditure incurred on this licence area during the last quarter is attached to this letter.

Yours faithfully,

For and on behalf of Carpentaria Exploration Company Pty. Ltd.,

P.J.Binks.

District Geologist.

RECEIVED

8- 24 SEP 1973

DEPT. OF MINES

2254

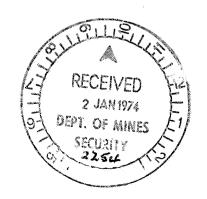
E.L. 46. Ediacara. Statement of Expenditure to 16/9/73.

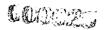
	\$
Administration	296
Assaying	27
Plant hire	194
Uperating labour	854
Stores and provisions	258
Transportaion	179
Travelling expenses	65
This Period	1873
Previously reporte	d 4700
Total _	6 573

000024

E.L. 46 "Ediacara" Quarterly Report to the 14th. December 1973.

Department of Mines Copy.





E.L. 46 Quarterly Report to the 14th. Dec. 1973.

During the last quarter three diamond holes were drilled along the western margin of the Ediacara Basin to test for down-dip continuation of secondary copper lead mineralisation intersected by our Company in the Black Eagle Mine area. The combined depth of the holes was 532.2m, of which 341.2m was diamond drilled. Interesting mineralisation occurs at the interface of leached and fresh dolomite.

Positions of the holes are shown on Drawing No.15249 while drill logs with assays are presented in the Appendix. Cross sections of the holes are shown on Drawing Nos. 15237 and 15245 while plots of assays against depth are shown on Drawing No. 15248. Assays from an earlier hole drilled by C.R.A. are shown plotted against depth on Drawing No. 15250.

P.J.Binks.

E.L. 46. Statement of Expenditure to the 14th. Dec. 1973.

Administration	1 794
Assaying	155
Freight	8
Contract Drilling	25 414
Plant Hire	840
Operating Labour	4 143
Stores & Provisions	1 388
Transportation	429
Travelling Expenses	228
This Period	34 399
Previously Reported	6 573
TOTAL TO DATE	\$40 972



CO00220

APPENDIX

Logs

DRILL HOLE T46 (EDIACARA)

LOCATION: 205m. east Black Eagle Mine. CONTRACTOR: Longyear (Australia) P/L. DECLINATION: Vertical. RIG: Longyear 38 Air Core Drill. COMMENCED: 5.9.73 TYPE OF DRILLING: Rotary Percussion to 91.4m. NQ diamond drilling 91.4m. to 245.0m. COMPLETED: 23.9.73 PERCENTAGE CORE RECOVERY: 74. DEPTH OF HOLE: 245.0m. LOGGED BY: A. Wiedeman, E. Dwyer, P. Binks.

Interval metres Recover	Sample No. of split core and percussion by samples QS. Series		Copper	Lead ppm	Assays Zinc ppm	Silver ppm	co ₂	Geol. Description
0 - 1.52 Nil								
1.52 - 3.05 Good	10061							Pale grey to brown, slightly weathered massive dolomite
- 4.57 "	62							Minor Mn.Ox. spotting.
- 6.10	63							tt .
- 7.62 ¹¹	64							11
- 9.14 "	65							tt .
- 10.67 "	66							tt "
- 12.19 "	67	r						11
- 13.72 "°	68							11
- 15.24	69							tt .
- 16.76	70							
- 18.29 "	71							tt.
- 19.81 "	72							11
- 21.34	73							11
- 22.86	74							TI T
- 24.38	75							tt .
- 25.91	76							rı .
- 27.43	77							n n
- 28.96 "	78							Pale grey massive dolomite. Minor Mn.Ox. spotting.
- 30.48	79							II .
- 32.00 "	80							" & minor chert.
- 33.53	81							II II
- 35.05 "	82							Pink and pale grey massive dolomite. Minor Mn.Ox. spotting.
- 36.58 ""	83							m .
- 38.10 ""	84							Pale grey dolomite.
- 39.62 "	85							m · ·
- 41.14	86							" - slightly leached.
- 42.67	87			4				" & Fe.Ox. staining.
- 44.19 "	88							Pale grey massive dolomite. Slightly leached.
- 45.72 "	89							n e e e e e e e e e e e e e e e e e e e
- 47.24 "	90							11

^{*} Except where % shown.

						Assays			
Interval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb. ppm	Zn. ppm	A g. ppm	C 0 2	Geol. Description
47.24 - 48.77	Good	10091							Pale grey massive dolomite. Slightly leached.
- 50.29	11	92							TI .
- 51.82	††	93			•				Pale grey vughy dolomite with Mn.Ox. staining.
- 53.34	. If	94							" Calcite in vughs.
- 54.86	ŤŤ	95							tt en
- 56.38	Ħ	96							TI Comments of the comments of
- 57.91	Ħ	97	,			•	•		" - slightly leached.
- 59.03	11	98							TT TT
- 60.96	11	99							rt tr
- 62.48	11	10100							m m
- 64.01	TT.	01							n ti
- 65.53	tt	02							m m
- 67.06	!!	03							tt transfer to the state of the
- 68.58	11	04							" - trace pyrite.
- 70.10	tt	05							H III
- 71.62	11	06							tt tt
- 73.15	tt-	07							Grey massive dolomite, slightly leached.
- 74.67	Ħ	08							" & clay "
- 76.20	11	09							TT TT TT
-77.70	***	10							tt tt
- 79.25	Ħ	11							11 11 11
- 80.77	tt"	12							Harry Harry
- 82.30	11	13							THE
- 83.82	##	14							11 11 11
- 85.34	11	15							Grey dolomite.
- 86.86	T1	16							" & trace pyrite.
- 88.30	11	17							TI III
- 89.91	Ħ	18							11 11
- 91.44	ίτ	10119							m . m
			Change to c	ore dril	ling				
91.52 - 92.00	0.48								Pink to grey massive dolomite with small vughs.
- 93	1.00								, II
- 94	1.00								11
- 95	1.00								II .
- 96	0.45								tt .
- 97	0.00								TT .

Įnterval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb. ppm	Zn. ppm	Ag.	CO ₂	Geol. Description
97 - 98	0.22								Pink to grey massive dolomite with small vughs.
- 99	0.55								TI .
-100	1.00				•				TT.
-101	0.90								
-102	1.00								m ,
-103	1.00								Grey massive dolomite with small vughs - trace pyrite.
-104	1.00						٠		Grey massive dolomite with small vughs.
-105	1.00								TT .
-106	1.00	,							tt .
-1,07	1.00								11
-108	1.00								11
-109	1.00								tt .
-110	1.00								tt .
-111	1.00								11
-112	1.00					•	•		11
-113	1.00								" - slightly leached between 112.05 and 112.15m.
-114	0.95								" - and few thin clay seams.
-115	1.00								Massive grey dolomite.
-116	1.00								tf.
-117	0.95							**	tt
-118	0.10								11
-119	0.20								· II
-120	1.00								II.
-121	1.00	+					I-		
-122	0.90								tt
-123	0.50								11
-124	0.50								11
-125	1.00								***
-126	1.00								tt
-127	0.10								Brecciated grey dolomite.
-128	0.50								"
-129	0.50								ft
-130	1.00					•			rt .
-131	1.00								ff .
-132	1.00								If .

Interval	Recovery	Sample No. QS. Series	Sample No G. Series	. Cu.	Pb. ppm	Zn. ppm	A g. ppm	c o 2	Geol. Description
132-133	1.00								Partly leached friable grey dolomite.
-134	0.00			•					
-135	0.30								. tf
` -1 36	0.50								Massive grey dolomite.
-137	0.70								and the second of the second o
-138	0.65								11
-139	0.00								
-140	0.48								Fractured grey dolomite.
-141	0.65								π
-142	0.52								n
-143	0.20							•.	TI .
-144	0.63			•					17
-145	0.50		}				_		
-146	0.65		362684	130	290		3		Fractured & partly leached, pale yellow brown dolomite.
-147	0.54)						
-148	0.60		362685	180	810		3		11
-149	0.00)) 362686	90°	200		Ü		
-150	0.70	•	302080	80	280		7		Fractured and slightly leached pale yellow brown dolomite.
-151	0.50)) 362687	440	3190		. T		Highly leached yellow dolomite & yellow brown clay.
-152	0.65		} 302087	440	2730		< 1		tt
-153	0.00								" to 151.25 then grey dolom-
-154	0.44		362688	170	750		1		tt .
-155	0.36		362689	100	460		~ 1		Leached yellow-grey dolomite.
-156	0.00								·
-157	0.00								
-158	0.00								
-1 59	0.00								
-160	0.90		362690	140	1040		2		Fractured grey dolomite (159.4 - 159.9? sludge).
-161	0.25)) 362691	90	1740		,		" - slightly leached.
-162	0.90		} 302091	90	1740		1		II II .
-163	0.92)	A			_		ri ri
-164	0.50		362692	290	1340		1		н
-165	0.00								· · · · · · · · · · · · · · · · · · ·
-166	0.00								

, [nterval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb. ppm	Zn. ppm	A g. ppm	^C /02 %	Geol. Description
166-167	0.34)	110	000		7		Fractured grey dolomite.
-168	0.32		362693	110	890		1		tt .
-169 -170	0.70 0.25) } 362694	230	1590		1		Grey fractured dolomite, partly leached, black staining at 169.9m.
-171	1.00) .						Intensely leached pale brown dolomite & clay. Black
-172	1.00		362695	250	6500		5		staining at 170.85 - 171.0m. Partly
-173	0.57)		-				tt tt
-174	0.43	,	362696	330	840		1	·	Brecciated grey dolomite.
-17 5	0.32		,)						Pale grey leached dolomite.
-176	0.55		362697	95	170		2		Fractured grey dolomite - partly leached.
-177	1.00)						" " "
-178	0.70		362698	85,	270		2		· · ·
-1 79	0.65)						1f
-179 -180	0.58		362699	95	850		<1		"
-181	0.90)						***
-182	0.50	•	362700	320	380		2	44.3	n
-183	0.70)						
-184	0.90		362701	290	220		< 1	43.6	
-185	1.00 %	ø.)						II .
-186	1.00		362702	930	640	1	5	43.6	tt en
-187	1.00	a)						Partly leached yellow-grey clay & dolomite.
-188	1.00		362703	760	790		1	43.5	Partly "
-189	1.00)						ti ti
-190	1.00		362704	1900	1290		10	45.8	ti ti
-191	1.00)				z.		Intensely "
-192	0.53		362705	950	690		1	33.2	Partly "
-193	0.50	4039)	470	1700	430	ĺ	36.1	Pale yellow-grey brecciated (primary) dolomite -
-194	1.00	4040) 362706)	470 (350 320	1700 60 110	220	ī 1	36.1 40.3) 32.9	partly leached.
-195	1.00	4041)			290	7		11
-196	0.75	4042) 362707)	300 (320 1080	95 220 1650	870	İ 2	28.1 39.4) 40.6	TI .
-197	0.35	196.75 - 197.0 - 4043				190	•		" & black staining at 196.94 -
-198	0.70	197.0 - 197.3 - 4044 197.6 - 198.0 - 4045	362708	4850 (1130 -1.4% -1300	950 990 850 6000	170 500	10 2 2 2	34.8 27.4) 11.1 1.35	Grey & brown clay with black staining (?tennorite) 197.2 - 198.0 Pale brown silty clay.

	Interval	Recovery	Sample No. QS. Series	Sample No. G. Series	Çu. ppm	Pb. ppm	Zn. ppm	A g. ppm	C 0 2 %	Geol. Description
S .	198 – 199	1.00	4046)) 362709	<u>1060</u> (1120	7000 6990	700	5 ~~	- 0.95 2.0)	Brown silty & sandy clayangular fragments of quartzite up to 3cm. in diameter at 198.8m.
A+ 15th	-200	1.00	4047	antico are company and are the company are and	1270	9000	670	12	2.8	Brown silty & sandy clay. ?Bedding 450 to core axis.
DQ1	-201	1.00	4048 Company of the C		1230	8500	700	5	4.0	rf .
) (°	-202	1.00	4049	362710	1230 (1000 1300	8500 6990 9000	520	5 1 2	2.05 3.85	n
\\e_=	-203	0.64	4050) 362711	3750 (1110	6000 6490	400	8	1.85 2.3)	tt
	-204	1.00	4051	002711 - N A	1150	4600	530	2	1.5	" & 10cm. band yellow sandy clay at 203.3m. Bedding 45° to core axis.
	-205	1.00) } 362712	690	3190		- 1	3 0	Pink to brown clay sand & silt - bedding 450 to core
	-206	1.00		302712	690	2130		< 1,	1.3	" axis.
	-207	0.55) 36713	740	390		60	1.8.	II
	-208	0.00					•			
	-209	0.22)) 362714	620	790		1	0.8	tt tt
	-210	1.00		3	020	750		,	0.0	Purple-brown sandy & silty clay.
	-211	0.87	·)) 362715	790	1590		1	1.2	
	-212	1.00		3 332.23	, 55	1030			⊥• ∠	11
	-213	0.40)) 362716	1220	3490		4	2.45	· n
	-214	0.10)		-,		•	2.10	
	-215	1.00)) 362717	920	1590		1	1.6	
	-216	1.00	•)	-	1000		<i>-</i>	1.0	n
	-217	1.00) 362718	810	8410		~ ī	7 EE	" 216.2 to 216.5 grey clay sandstone
	-218	1.00) 002710	. 810	840		< 1	1.55	Bedding 45° to core axis. Pink to brown clay silt.
	-219	1.00) 362719	950	1140		<1	1.65	Yellow to brown "
	-220	1.00		,						Brown sandy clay & clay silt.
	-221	1.00)) 362720	760	310		<1	3.0	Yellow to brown sandy clay & clay silt.
	-222	1.00		3 332.23	700	070			0.0	Brown sandy clay.
	-223	0.40		} 362721	530	590		<1	2.05	rt .
	-224	1.00) 552,22	-300	Ç30		, T	2.00	223.0 - 223.4 Brown sandy clay 223.4 - Pink to white
	-225	1.00)						clay sandstone. Grey well bedded clay sandstone. Bedding 450 to core
	-226	1.00) 362722)	480	40		<1	0.35	Grey to yellow-brown sandstone & clay.
	-227 -228	1.00 1.00		362723	570	240	4.	< 1	1.05	Pale yellow sandy clay. Grey to yellow & brown sandy clay & sandstone.
				,						ore, to berrow a prown sandy cray a sandstone.

		Sample No.	Sample No.	Cu.	Pb.	Zn.	۸ 🚗	O O	000033
Interval	Recovery	QS. Series	G. Series	ppm	ppm	ppm	A g. ppm	C 0 2	Geol. Description
228-229	1.00)) 362724	0000	160		- 9°	0.7	Pale brown sandy & pebbly clay - 228.0 - 228.1 - Dark
-230	1.00		} 302724	2300	160		<1	9.1	White silty sandstone & brown to black sandy clay. brown sandy clay. Fe.Ox. and Mn.Ox. staining at 229.lm.
-231	1.00		362725	390	22.		<1	0.95	White silty sandstone & brown sandy clay.
-232	1.00) 002723						Grey silty and clayey sandstone.
-233	1.00)	7 O E O	F.0		ف د		" & pale brown clay.
-234	1.00		362726	1250	50		<1	2.5	233.0 - 233.8 Brown silty clay , 233.8 - laminated pink siltstone & grey brown clay.
-235	1.00)) 362727	330	10		<1	0.15	Grey to pink Eyellow fine grained silty sandstone & clay.
-236 -237	1.00		3 302727	330	10		_т	0.15	Well bedded pale brown to pink silty clays and sands - Bedding 45° to core axis.
-237 -238	1.00) 362728	620	8		<1	0.15	Red & yellow laminated silts & clays.
			,						Pink & white laminated silty sandstone.
-239	1.00)) 362729	3850	10		<1	0.15	Pink, white & yellow silts, sandy clay & sandstone.
-240	1.00)						White silty & clayey sandstone.
-241	1.00)) 362730	1600	45		<1	0.15	White & pink silts & clays with thin sandstone bands.
-242	1.00		3 332,33	1000	10		_ 1	0.12	" Bedding 45° to core axis.
-243	1.00)) 362731	42	< 5		<i>-</i> - 3	0.00	Yellow & white clay & sandstone.
-244	1.00		302/31	42	~ 3		<1	0.20	Pale yellow & white clayey sandstone (quartzite).
-245	1.00) 362732	18	< 5		<1	0.10	ti .

End of hole.

LOCATION: 135m. East Black Eagle Mine. CONTRACTOR: Longyear (Australia) P/L. DECLINATION: Vertical. RIG: Longyear 38 Air Core Drill. COMMENCED: 25.9.73. TYPE OF DRILLING: Rotary Percussion to 70.1m. COMPLETED: 3.10.73 PERCENTAGE CORE RECOVERY: 84. 200.5m. DEPTH OF HOLE: LOGGED BY: T. Mayer, A. Wiedeman, P. Binks.

Interval metres	Recovery	Sample No. of split core & percussion samples QS. series	Sample No. of core rockchip samples G. Series	Cu.	Pb. * ppm.	Assays Zn. ppm.	A g.	Co ₂	Geol.	Description
0 - 3.05	Good	10120							Grev slightly weath	ered, massive dolomite, minor Mn.Ox.
- 4.57	. #	21							or by brighting wedth	staining.
- 6.10	11	22							Grey dolomite with	Mn. Ox. and Fe. Ox. staining.
- 7.62	11	23							•	ii .
- 9.14	11	24								TI .
-10.67	tt	25							Red-grey dolomite w	ith slight Mn. Ox. staining on joints.
-12.19	11	26							Grey, slightly leac	
-13.72	11	27							Pale, red-grey dolo	mite with minor Mn.Ox. staining & spot
-15.24	11	28								" ting.
-16.76	Ħ	29								11
-18.29	11	30								11
-19.81	11	31	*							n'
-21.34	***	32								rr ·
-22.86	ff	33								11
-24.38	ŤĪ	34								11
-25.91	TT	35								tt
-27.43	11	36								n .
-28.96	TT	37								11
-30.48	ff	38								n .
-32.00	11	39								11
-33.53	tt.	40								11
-35.05	11	41								Ħ
-36.58	TĘ	42								11
-38.10	1.1	43							Pink & grey massive	dolomite with minor Mn. Ox. staining.
-39.62	11	44 .								TT .
-41.14	11	45				N				
-42.67	11	46							Pale yellow brown	TT .
-44.19	11	47 .		280	500	160	1,	45.3	11	to pink slightly leached dolomite.
-45.72	f.t	48		340	7 50	180	1	45.4		11
-47.24	ťť	49		330	1250	190	1	45.7	TT .	TT .

^{*} Except where % shown.

1

43

0.50

- 91

210

15

In	terval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb.	Assays Zn. ppm	A g. ppm	Co ₂	000036
	- 92 - 93	0.50 0.38) 362744 }	170	250		1		Friable, leached pale-grey dolomite.
	- 94 - 95	0.00 0.58		45	280	190		1		Extremely fractured & leached pale-grey dolomite.
	-96 - 97	0.63		46	320	2200		2		II .
	- 98 - 99	0.90		} 47	440	1200		1		Almost wholly leached pale yellow-brown dolomite. Extremely fractured & leached pale grey dolomite.
	-100 -101	1.00) 48	480	610		1		Extremely fractured & partly leached pale grey dolomite.
	-102 -103	1.00		} 49	310	810		1		
	-104 2 -105 ±106	1.00 1.00		50	310	1050		1	38.9	m m
	-107 -108	1.00) 51	220	1450			41.8	" & minor Mn.Ox. staining.
	-109 -110	1.00) 52	270	780			42.3	11 11
	-111 -112	1.00		} 53 } 54 (550 830	2650 8000	800	1	41.4) 42.9	Pale grey massive dolomite - partly leached.
	-113 -114	1.00	4026 27 —	}	1040	5500	1090	1	43.0	Fractured, partly leached dolomite with minor Mn.Ox. staining.
	-115	1.00	28	55 (1950 2850	4100 1750	1020		42.0) 43.9 42.9	Vughy, pale grey dolomite with Mn.Ox. & ?Tennorite in Fractures. Partly leached pale yellow-brown dolomite fractures. & ?Tennorite in fractures.
	-116 -117	1.00	29 116.0 - 116.5 - 30 116.5 - 117.0 - 31) 56 ()	2.9% 3.5% 3400	1450 950 4200	2700 1%		31.6) 37.0 1.9	116.0 - 116.5 Grey dolomite with abundant black staining (?Tennorite) in fractures & vughs. 116.5 - 117.0 Brown clay - extremely sharp contact agains to dolomite.
	- 118 -119	1.00	33	} 57 (3550 4700 2000	2.37% 2.0% 2.4%	3400 2000	7 10 34	1.1 4.85) 3.5	Brown clay with blackstaining - partly leached dolomite Brown clay with fragments from 117.0 - 117.25m. of grey dolomite and qtz. grains.
	-120 -121	1.00	35	58 (1350 1350 740	1.44% 1.5% 6000	1200 630	3 2 1	3.6 8.5) 7.8	Pale grey to brown clay with fragments of dolomite between 120.1 - 120.5
	-122 -123	0.65 0.45	36 37) } 59 (630 750 550	7000 4250 5500	540 500	10 30 5	4.5 2.05) 0.2	Pale grey-brown silty & sandy clay. Pale grey-brown silty & sandy clay.

Interval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb. ppm	Zn. ppm	A g. ppm	Co ₂	000037 Geol. Description
123-124	1.00	4038)	550	7000	660	2	0.8	Pale grey-brown silty and sandy clay.
-125	1.00		} 60	(550	7400			1.5)	Pale brey to brown clayey sand.
-126	1.00		} 61	800	7 70		7		Brown sandy clay with coarse (3mm.) arythe qtz.
-127	1.00) or	800	1.1%		Т	1.95	Brown sandy clay with coarse sand. grains. Bedding 45° to core axis.
-128	0.77) 62	650	8500		0		Brown sandy clay.
-129	0.55		}	030	8500		3	1.7	TI .
-130	0.82) 63	550	7000		-	0.15	129.0 - 129.3 Grey-brown sandy dolomite. 129.3 - 130.0
-131	0.10		}	330	7000		Т	2.15	Brown sandy clay. Brown sandy clay
-132	0.50)						Brown sandy clay.
-133	1.00		362800	450	5500		1		Grey to brown partly leached sandy dolomite. Bedding 450
-134	0.60)						Brown sandy clay.
-135	1.00		362764	700	8200		1	2.65	Yellow brown silty and sandy clay.
-136	0.25)						Brown sandy clay.
-137	0.48		65	600	3450		1	2.9	Fractured & leached yellow sandy dolomite.
-138	1.00		}	· ·					Very leached yellow brown sandy dolomite.
-139	1.00) 66)	340	920		1	0.9	Grey to yellow brown silty & sandy clay.
-140	1.00)						
-141	1.00		} 67	370	540		1	1.2	" & thin band (10cm) pink qtzite.
-142	1.00) } 68	300	130		7	0 75	" & silty clay.
-143	1.00)	000	100		Т	0.75	TI .
-144	0.93)	L. 22.0					Pale yellow-brown silty & sandy clay.? Bedding 45° to
-145	1.00		} 69	470	150		1	1.8	core axis.
-146	1.00)) 70	420	130		1	1.15	" & silty clay.
-147	1.00)	.20	100		Т	T•T2	146.0 - 146.4 Yellow brown silty clay. 146.4 - 147.0 White clayey sand with purple staining
-148	1.00		} 71	500	٥٤		-	• ~-	Bedding 45° to core axis. White & yellow-brown silty & sandy clay.
-149	1.00) ^{/1}	300	35		1	1.05	White clayey sandstone with bands of finely laminated
-150	1.00		70	000					White clayey sandstone. shale.
-151	1.00) 72	220	100		1	0.75	150.0 - 150.5 Pale brown sandy clay.
-152	1.00		1						150.5 - 151.0 Grey clayey sand.
-153	1.00		73	680	40		1	0.25	Pink-grey sandstone. Bedding 35° to core axis.
-154	1.00		,						Medium-grey clayey sandstone.
-155	1.00		7 4	480	28		1	4.2	Pink-grey sandstone.
-1 56			,			*			White medium grained quartzite. 45° to core axis.
-156 -157	1.00		75	170	8		1	0.25	Ţ
)					·	Pink to white finely laminated clayey sandstone. 45°.
-1 58	0.85) } 76	20	5		7	0.0	Pink & white clays, silt & sand. Bedding parallel to
-1 59	1.00)	2 . 0	J		1	0.2	Pink to white finely laminated silts, clay core axis. & sand.

· · ·

						A 000110			000038
Interval	Recovery	Sample No. QS. Series	Sample No. G. Series	Çu. ppm	Ŗb. ppm	Assays Zn. ppm	A g. ppm	Co ₂	Geol. Description
159-160 -161	1.00 0.65))362777)	15	10		1	0.05	Pink to white finely laminated silts, clay & sand. Bedding 50° to c.a. at 159.8m. Bedding parallel to c.a.
-162	0.55)						" Bedding 30° to c.a.
-163	0.15) 78)	22	30		1	4.2	" & clayey sandstone.
-164	1.00)) 79	8	5		1	1.9	163.0 - 163.1 Pink clayey sandstone. Bedding 20°to c.a. 163.1 - 164.0 White finely grained quartzite.
-165	1.00)						White fine grained quartzite.
-166 -167	1.00 1.00		80	8	5		1	0.2	11
-168	1.00)				*.		tt
-169	1.00		} 81	22	5		1		tf
-170	1.00)						tt .
-171	1.00		} 82	70	10		1		n
-172	0.90)						***
-173	1.00		83	25	8		1		" & pink staining.
-174	1.00)						" Bedding 30° to c.a.
-175	1.00		84	32	5		. 1		" - fractured.
-176	1.00		} 85	15	8	Age of the second	7		White friable sandstone with thin (3cm) pink clay seams
-177	1.00		3	ΨO	~~	···	1		White fine grained quartzite.
-178	1.00		} 86	22	15		1		Friable pinky-white clayey sandstone.
-1 79	1.00)				-		Pink & grey finely laminated silty sandstone.
-180	1.00		} 87	10	8		1		" Bedding parallel to c.a.
-181	1.00)						Pink & white clayey sandstone.
-182	1.00		88	12	5		1		" & silty sandstone.
-183	1.00	,)						Yellow stained fine grained white quartzite.
-184	0.48		89	25	5		1		Pink & yellow silty sandstone.
-185	1.00)						Yellow to pink fine grained silty sandstone. Bedding 80° to c.a.
-186 -187	1.00		90	10	5		1		Pink to grey fine grained quartzite.
-188	0.70)						186.0 - 186.5 Pink laminated silts and sands. 186.5 - 187.0 White fine grained quartzite.
-189	1.00		91	8	5		1		Fractures off-white, fine grained quartzite. White to pale brown quartzite. Bedding 300 to c.a.
-190	1.00)						White fine grained quartzite.
-191	1.00)))	15	5		1		11
-192	1.00)						" Bedding 30° to c.a.
-193	1.00		} 93	10	5		1		u .
-194	1.00		}	_ =					Fractured white quartzite with white clay seams.
-195	1.00) 94)	12	5		1,		11

0	0	0	3	1	,
_		 	• -	4	

Ge	eol	Description
----	-----	-------------

		Cample No	Cample No	0.,	DЪ	75	Λ= 0ο	000003
Interval	Recovery	Sample No. QS. Series	Sample No. G. Series	Cu. ppm	Pb. ppm	Zn. ppm	A g. Co ₂ ppm %	Geol Description
-196	1.00)) 95	8	5		1	Fractured white quartzite with white clay seams.
-197	1.00		} , 33	0	3		T	Fractured white quartzite.
-198	1.00)	•	-			tt .
-199	1.00		96	8	5		T	
-200	1.00)					11
200-200.5	0.5		97	1,2	5		1	

End of hole.

200-200.5

0.5

DRILL HOLE T48 (EDIACARA)

Location:

1300m south-south-east Black Eagle Mine

Declination: Commenced:

Vertical

4.10.73 Completed: 8.10.73 Dep th of hole: 87.7m.

Contractor: Rig:

Longyear (Australia) P/L Longyear 38 Air Cure Rig Rotary percussion to 30.5m. NQ diamond drilling 30.5 to 87.7m.

Type of drilling:

Percentage Core Recovery:

		Sample no.of	Sample no.of			ASSA			A.Wiedeman, P. Binks.
Interval Metres	Recovery	splitcore & percussion samples.	core rock chip samples.	Cu ppm*	pb	Zn ppm	Ag ppm	°C°2	Geol. Description
		- QS. Series.	G. Series.		:				
0 - 3.05	Good	10165	*	75	210				Grey weathered dolomite
- 4.57	11	66		100	600				Grey crystalline dolomite Fe Ox staining on joints
- 6.10	11	67		65	650				
- 7.62	ft	68		60	440				· · · · · · · · · · · · · · · · · · ·
- 9.14	ţť.	69		100	800				11 [°]
- 10.67	11	70		90:	750				Grey to brown dolomite, minor Mn.Ox.staining
- 12.14	tt .	71		130	750				tt .
- 13.72	11	72.		80	390				" - partly leached
- 15.24	11	73		80	640				IT .
- 16.76	17	74		80	600				п
- 18.29	11	75		85	480			45.6	II. II
- 19.81	tf	76		110	470			44.4	Grey to brown dolomite - partly leached
- 21.34	ff	77		85	330			46.1	Pale grey dolomite - minor Mn.Ox. staining
- 22.86	ŦŤ	78		100	460			45.6	n e e e e e e e e e e e e e e e e e e e
- 24.38	11	79		100	1200			46.5	TI .
⊋ 25.91	11	80		95	1250			46.2	11
- 27.43	n	81,		1050	6000			44.8	Pale grey dolomite - partly leached. Mn.Ox. and malachite staining
- 28.96		82		3400	7.6%			32.9	Pale grey dolomite with brown clay - Mn.Ox. and malachite nodules
- 30.48	11	83		4700	3.5%			28.9	Grey dolomite and brown clay with abundant nodules of malachite azurite and Mn.Ox.

As	say	S
----	-----	---

• %							А	ssays			
"Sort"	Interval	Recovery	Sample No. QS. Series		nple No. Series	Cu. ppm	Pb. ppm	Zn. ppm	A g. ppm		00004: Geol. Description
6.0%				Cha	inge	to	core		dr i ll	Ling	
6.3	30.48-31.00	0.50	4001		52801	1.54%			88	1.4	Brown clay with abundant modules of malachite &
12.0	31-32	0.85	2)	5260T ,	(7500 3250	23.0% 24.0%	3700 4150	22 15	0.6) 0.4	azurite between 30.5 and 30.65 m. Off white to yellow brown silty clay with bands up to 2 cm. of silicified Mn.0x.
	-33	0.73	3)	2	2550 (2500	8.7% 71%	4320 3700	10 9	0.45 2.05)	Pale red-brown silty clay with fragments Mn.Ox.
	-34	1.00	4	Ś		1870	5.95%		6	5.4	Pale brown silty clay with minor Mn.Ox. staining.
1 Sangar	÷35	1.00	5)	3	2200 (1650	3.2%	1900 1360	47 8	5.0 2.65)	- weathered dolomite 34.0-34.lm.
12	-36	1.00	6)	· ·	1420	1.92%	1000	10	1.0	ır
(1.0m	- 37	1.00	7)	4	1380 (1100	2.28% 3.3%	1270 1200	1 18	6.0 4.35)	Brown silty clay with small fragments unleached dolomite
1.	-38°	1.00	8	ý	7	780	1.74%	1040	2	4.2	Yellow-brown silty clay.
	- 39	1.00	9)	5	1020 (650	2.3%	1360 1320	35 7	5.6 0.5)	11
	-40	1.00	10)	J	400	7500	640	2	0.55	Grey to pale brown clay with few fragments dolomite.
, X	-41	1.00	11)	6	1120 (1350	1.08% 1.3%	560 950	1 12	0.4 2.1)	" & 1 cm. band angular quartzite fragments at 40.15 m.
ler 2)	-42 ₍	0.94	12	ý	ŭ	1030	1.44%		6	2.4	41.0 - 41.3 Yellow & red-brown silty clay. 41.3 - 42.0 Partly leached yellow dolomite with Mn.Ox.
1.60	-43	0.68	13)	7	1130 (1100	1.0% 1.1%	400 700	1 3	1.15 1.15)	White to yellow brown clay with large fragments dolomite
	-44	0.70	14	j	•	1000	1.05%	630	4	1.85	Red brown Mn.Ox. stained goethite and clay.
	-45	1.00	15 [°]).).	8	1130 (1000	1.47%	740 740	5 2	8.3 2.9)	44.0 - 44.7m. stained goethite with thin veins calcite. 44.7 - 45.0m. Grey to brown silty clay.
and the second s	-46	1.00	16	j	Ū	1100	7500	740	2	1.6	Grey to yellow & red brown silty clay.
•	-47	0.85	17)	9	1120 (1000	3850 5000	720 600	1 1	0.2 3.55)	Yellow brown silty clay. 47.0 - 47.1m Grey clay. 47.1 - 47.8 brown vughy goethite
	-48	1.00	18	,	Ĵ	950	9500	530	1	2.05	with MnOx. staining & clear crystalline mineral in 47.8 - 48.0m Grey clay. vughs.
ě.	-49	1.00	19)	10	480 (425	5500 2250	380 330	2 4	1.55 1.45)	48.0 - 48.4m Mn.Ox. stained goethite. 48.4 - 49.0m Mottled grey & yellow sandy clay.
	-50	0.73	20	j	10	230	650	22	20	0.25	Pale purple grey silty clay.
	-51	1.00	21)	11	250 (410	1500 2200	55 120	1 1	0.05 0.1)	50.0 - 50.9m Grey & purple grey silty clay. 50.9 - 51.0 m. Purple-grey goethite.
	-52	0.62	22	j		570	2150	140	1	0.15	Grey to purple goethite & yellow-brown clay.
	-53	1.00	23	,)	12	520 (460	1150 740	160 140	1 1	0.3 0.2	Pale Brown sandy clay & clayey sand.
	-54	1.00	24	ý		790	650	210	i	0.1	, TT
	- 55	1.00)	13	600	70	160	7	0.9	11
	- 56	0.75		ý	Τ0	300	70	T00	-1 -	0.3	tt'

Intervals	Recovery	Sample No. QS. Series	Sample N G. Serie		Pb.	Zn.	A y ppr	. Co ₂	000042 Geol. Description
56-57 -58	1.00) 14))	600	60	70	1	0.45	Pale brown sandy clay & clayey sand. 56.1 - 57.0 m. Pale yellow to white sandstone. 57.0 - 57.2m. White friable sandstone.
									57.2 - 58.0m. Yellow brown sandy clay.
-59 -60	1.00)) 15	300	85	75	1	0.65	White friable sandstone & pale brown sandy clay. Bedding 60° to c.a. Bedding 55° to c.a.
-61	1.00)						Yellow brown silty clay.
-62	1.00)))	600	45	100	1	0.3	"
-63	1.00))						" white quartzite for 62.5 - 63.0.
-64	1.00) 17)	650°	45	42	1	0.2	Yellow brown finely laminated (shale) Bedding 55° to ca
-65	1.00)						11
-66	1.00)))	290	80	55	1	0.1	11
-67	1.00)						Grey to yellow brown silty, finely laminated shale.
-68	1.00)))	310	75	55	1	0.2	Bedding 55° to c.a.
-69	1.00)						" & grey silty sandstone.
-7 0	1.00)))	430	55	30	1	0.45	g grey Sirry Sandstone.
-71	1.00		,):	,					White silty and clayey sandstone.
- 72	1.00)))	20	60	8	1	0.5	White & pink silty & clayey sandstone.
-73	1.00))						""
74	1.00)))	15	5	18	1	0.4	White clayey sandstone.
- 75	1.00		,)						White friable sandstone.
- 76	1.00) 23	2	5	5	. 1	0.05	White, silty friable sandstone.
- 77	1.00	•)						White, silty friable sandstone.
- 78	1.00)))	2	5	5	1	0.05	White quartzite. Bedding 55° to c.a.
-7 9	0.80)						ii
-80	1.00) 25)	5	_. 5	5	1	0.1	
-81	1.00)						ıı .
- 82	1.00) 26)	2	5	5	1	0.05	11
-83	0.92)						11
-84	1.00	~)))	5	180	8	1	0.1	White to pale brown quartzite.
- 85	1.00)						White quartzite.
- 86	1.00) 2 _. 8	8	38	12	1	0.1	II
-87	1.00) 362829	20	80	12	1	0.05	11
87.0-87.7	0.70	,)	End	of		hola		11

EXPLORATION LICENCE 46 'EDIACARA'

PROGRESS REPORT FOR QUARTER ENDED 15TH MARCH, 1974

No further field work has been carried out within Exploration Licence 46 during the quarter.

Assessment of geological information on the area and the results of drilling carried out last quarter has continued. On the basis of this assessment and in the light of information obtained from our recent drilling of the similar environment within Exploration Licence 78 'Moro Gorge' it was decided to apply for an extension of Exploration Licence 46 for a further 12 months.

A statement of expenditure for the quarter is attached.

for E.M. Bennett Manager



496

CARPENTARIA EXPLORATION COMPANY PTY. LTD. EXPLORATION LICENCE NO. 46 *EDIACARA* STATEMENT OF EXPENDITURE FOR QUARTER ENDED MARCH 15, 1974

	\$
ADMINISTRATION	314
ASSAYING	62
CONTRACT DRILLING	1 916
PLANT HIRE	133
OPERATING LABOUR	891
STORES AND PROVISIONS	130
TRANSPORTATION	133
TRAVELLING EXPENSES	22
THIS PERIOD	3 601
PREVIOUSLY REPORTED	40 972
TOTAL TO DATE	\$44 573

for E.M. Bennett Manager.

CARPENTARIA EXPLORATION COMPANY PTY. LTD. EXPLORATION LICENCE 46 "EDIACARA" PROGRESS REPORT FOR QUARTER ENDED JUNE 16TH, 1974

Due to exceptionally wet conditions Exploration Licence 46 has been inaccessible and consequently no field work has been carried out during the quarter.

A geologist has been assigned to this project and he is currently reviewing previous work.

for E.M. Bennett, Manager.



CARPENTARIA EXPLORATION COMPANY PTY. LTD. E.L. NO.46 'EDIACARA' STATEMENT OF EXPENDITURE FOR QUARTER ENDED 15TH JUNE 1974

There was no expenditure charged to this Exploration Licence during the quarter, as no field work was possible.

for E.M. Bennett,

for E.M. Bennett, Manager.

EXPLORATION LICENCE NO.46 "EDIACARA"

PROGRESS REPORT FOR QUARTER ENDED 15TH SEPTEMBER, 1974

During the quarter the results of all previous investigations undertaken on the "Ediacara" area by Carpentaria Exploration Company Pty. Ltd. and others, were evaluated.

One field trip was undertaken to assess the situation in the field and to determine the number of existing drill holes suitable for down-hole geophysical examination.

Only 7 of the 80 holes examined were found to be open below 50 m depth and the idea of using down-hole geophysics was discarded.

Future work on Exploration Licence No.46 will depend on the results of a drilling programme to be undertaken in early November on Exploration Licence No.78 "Moro Gorge", which has the equivalent geological environment and similar type of mineralization. Should the drilling at "Moro Gorge" prove successful, then surface techniques used to define drilling targets can be used at "Ediacara". If the drilling fails to provide encouragement then it is unlikely that work will be warranted at Ediacara and the area will be relinquished.

A Statement of Expenditure is attached.

FOR E.M. BENNETT,

MANAGER.

EXPLORATION LICENCE NO.46 "EDIACARA"

EXPENDITURE REPORT FOR QUARTER ENDED 15TH SEPTEMBER, 1974

Administration	\$	100
Plant Hire		23
Operating Labour		288
Stores & Provisions		74
This Period		485
Previously Reported	4	4 573
Total to Date	\$ 4:	5 058

FOR E.M. BENNETT,
MANAGER.



Carpentaria Exploration Company Pty. Ltd.

INCORPORATED IN QUEENSLAND

REGISTERED OFFICE: M.I.M. BUILDING, 160 ANN STREET, BRISBANE, QUEENSLAND

TELEX ADDRESS:

"MIMHOLD AA 40160 BRISBANE"

TELEPHONE: 21 0044

TELEGRAPHIC CODE: "MINESEARCH BRISBANE" P.O. BOX 1042 BRISBANE, Q. 4001

WFS:SF:17-640

January 23, 1975.

The Director of Mines, Department of Mines, P.O. Box 38, Rundle Street, ADELAIDE. SOUTH AUSTRALIA. 5000.

EXPLORATION LICENCE NO.46 "EDIACARA"

Dear Sir,

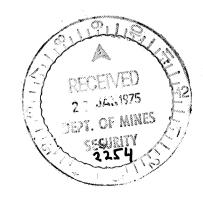
We submit with this letter our Progress Report for the quarter ended December 15, 1974. There was no expenditure incurred during the quarter.

> Yours faithfully, CARPENTARIA EXPLORATION COMPANY PTY. LTD.

> > A.W. Howe

Administration Manager

Encl.



EXPLORATION LICENCE NO.46 "EDIACARA"

PROGRESS REPORT FOR QUARTER ENDED DECEMBER 15, 1974

No field work has been carried out within Exploration Licence No.46 during the quarter.

As stated in the previous Quarterly Report, results of drilling on Exploration Licence No.78 "Moro Gorge" are required before a decision can be made on renewal of Exploration Licence No.46. This drilling was commenced in December 1974 and should be completed in late January 1975.

Results to date indicate little likelihood of exploration being perpetuated in either of Exploration Licences 46 or 78. However, the final decision for relinquishment will be reserved until the drilling programme is completed.

A.W. Howe

Administration Manager

CARRETTARIA FIREDRATION COMPANY PTV. LTD.

MINING TENEMENT

PROGRESS REPORT

EXPLORATION LICENCE NO.46 "EDIACARA", S.A.

FINAL REPORT

DATE: March 7, 1975.

COPY: MINES



FINAL REPORT

1. INTRODUCTION

Exploration Licence No. 46 "Ediacara" was applied for on August 21, 1972 and granted for a period of one year from March 16, 1973. It was extended for a further 12 months from March 16, 1974.

It was hoped that surface prospecting techniques being applied in the similar geological environment of Exploration Licence No. 78 "Moro Gorge" would be successful and could be applied to Ediacara. No field work has been carried out at Ediacara pending these results. Drilling of anomalies at Moro Gorge has not been successful.

2. INVESTIGATIONS COMPLETED TO DATE

Owing to the large numbers of reports issued on Ediacara by various organizations, this report summarizes the work and conclusions reached by Carpentaria Exploration Company Pty. Ltd. (C.E.C.) personnel only.

The Supervising Geophysicist (memo to Manager, C.E.C., in C.E.C. report to the Mines Department "Special Mining Lease No. 353 'Lake Torrens Plains', Quarterly Report to November 12, 1970") has reinterpreted Mines Department induced polarization conducted over the Ediacara basin in 1961-1963, and concluded that the survey failed to locate known mineralization, and therefore probably failed to detect any mineralization. Many anomalies were recorded but these were probably due either to membrane effects of clays within the Ajax Limestone or the readily polarizable Parachilna Formation.

The mineralization at the northern end of the basin consists of galena coated with non-polarizable anglesite and cerussite

2. INVESTIGATIONS COMPLETED TO DATE (cont.)

and this effectively insulates the mineralization from the induced polarization field. Several anomalies drilled by the Mines Department were found to be barren.

The Mines Department and C.R.A. Exploration Pty. Limited drilling outlined 2 separate mineralized lenses in the northern end of the basin around Greenwood's Workings of 12×10^6 t of 0.84% lead and 17×10^6 t of 1.23% lead respectively (Johns 1972).

C.E.C. drilling revealed 4 mineralized bodies in the vicinity
of the Black Eagle mine on the western side of the basin with
possible reserves of:
DRICK HOLES.

1)	194 000 t	 0.74% copper,	8.25% barite	T27, T28,	T39-T45.

4) 1 700 000 t - 12% barite, 1.0% lead (Okill 1972) 72A,74,75,76.

Okill suggested that further drilling be undertaken in the Southern Workings area, where C.E.C. holes T30 and T31 intersected 6.1 m of 2.05% lead and 10.67 m of 6.69% lead respectively. These holes are situated close to Mines Department holes 3-6, E25 and E26 which did not intersect significant mineralization, and the potential for an orebody in this area is very limited.

3. RELEVANT PLANS INCLUDED IN DEPARTMENT OF MINES QUARTERLY REPORT

Quarterly Report	Plan No.	Title
December 14, 1974	.15327	Grid and Drill Holes T48, Tl2, E45
	15245	Grid and Drill Holes T48, T12, E45
,*	15248	Drillhole assays
a a	15249	Geology
	15250	Drillhole assays

REFERENCES

- Dwyer, E.A. 1970, "Special Mining Lease No. 353 'Lake Torrens Plains', Quarterly report to the Mines Department for period ended November 12, 1970."
- Johns, R.K. 1972, "Base Metal Occurrences in the Northern Flinders Ranges", Geol. Survey of S.A. Report of Investigations 37.
- Okill, R. 1972, "Special Mining Lease No. 637 'Ediacara',
 Quarterly report to the Mines Department for period ended
 August 12, 1972."

EXPLORATION LICENCE NO.46 "EDIACARA"

FINAL STATEMENT OF EXPENDITURE

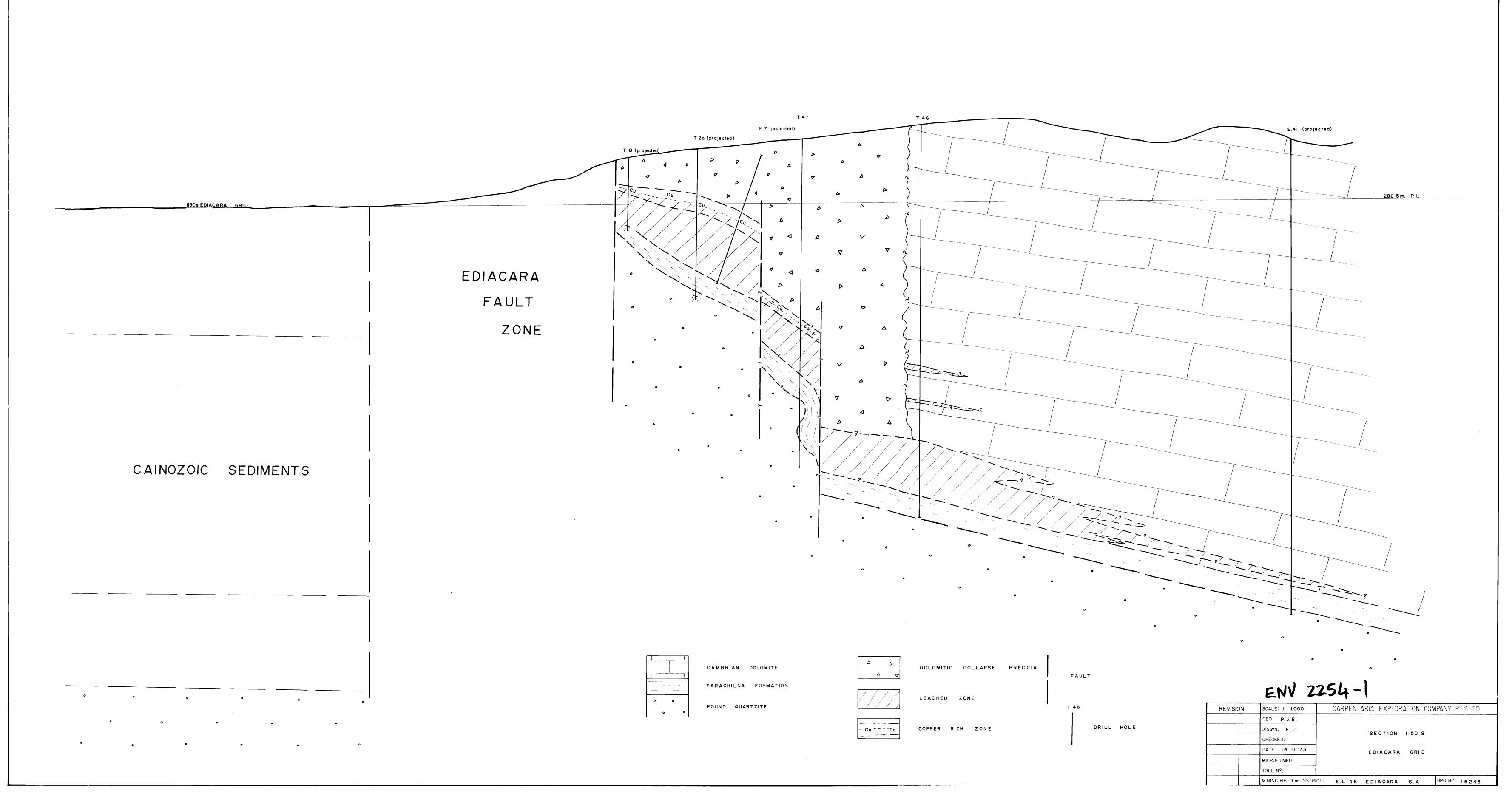
\$

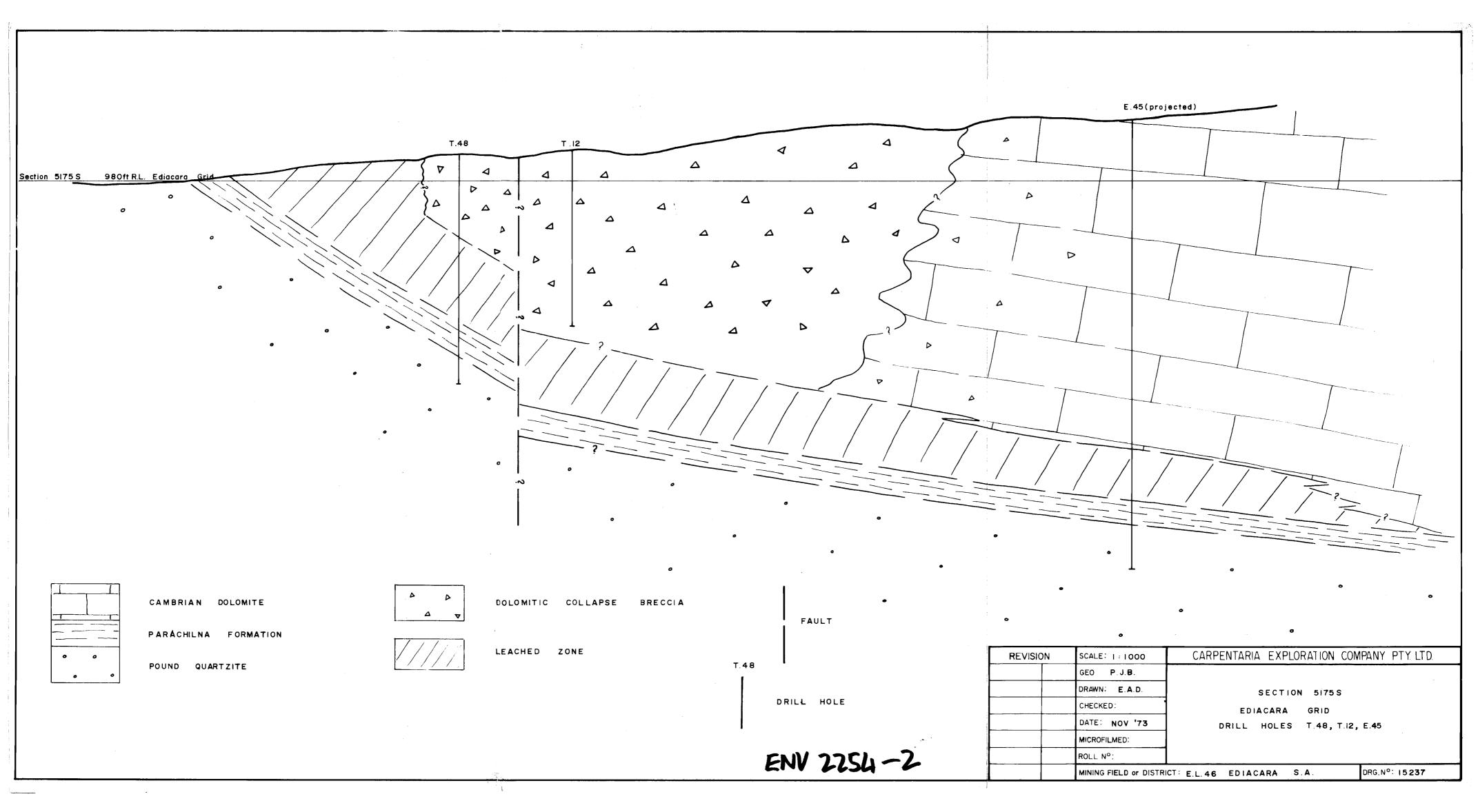
Expenditure during 1st year to March 16,	1974 44 573
Expenditure during 2nd year to March 16,	
Total Expenditure since E.L. granted	\$45 058

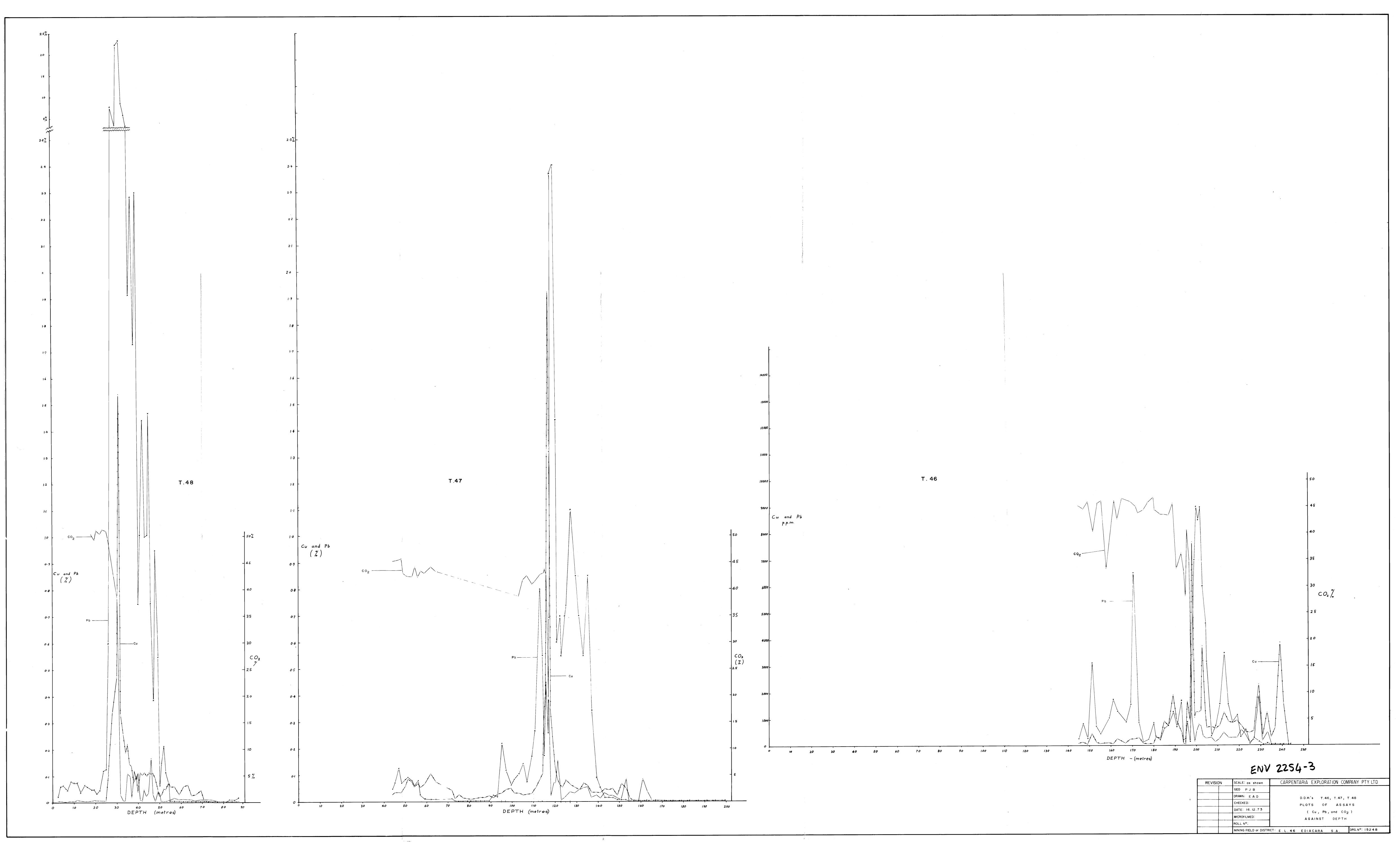
No further field expenditure was incurred on this Licence in the last quarter. The extension of the term from March 16, 1974, was requested to allow full evaluation of the exploration information obtained from this and other areas which were geologically similar.

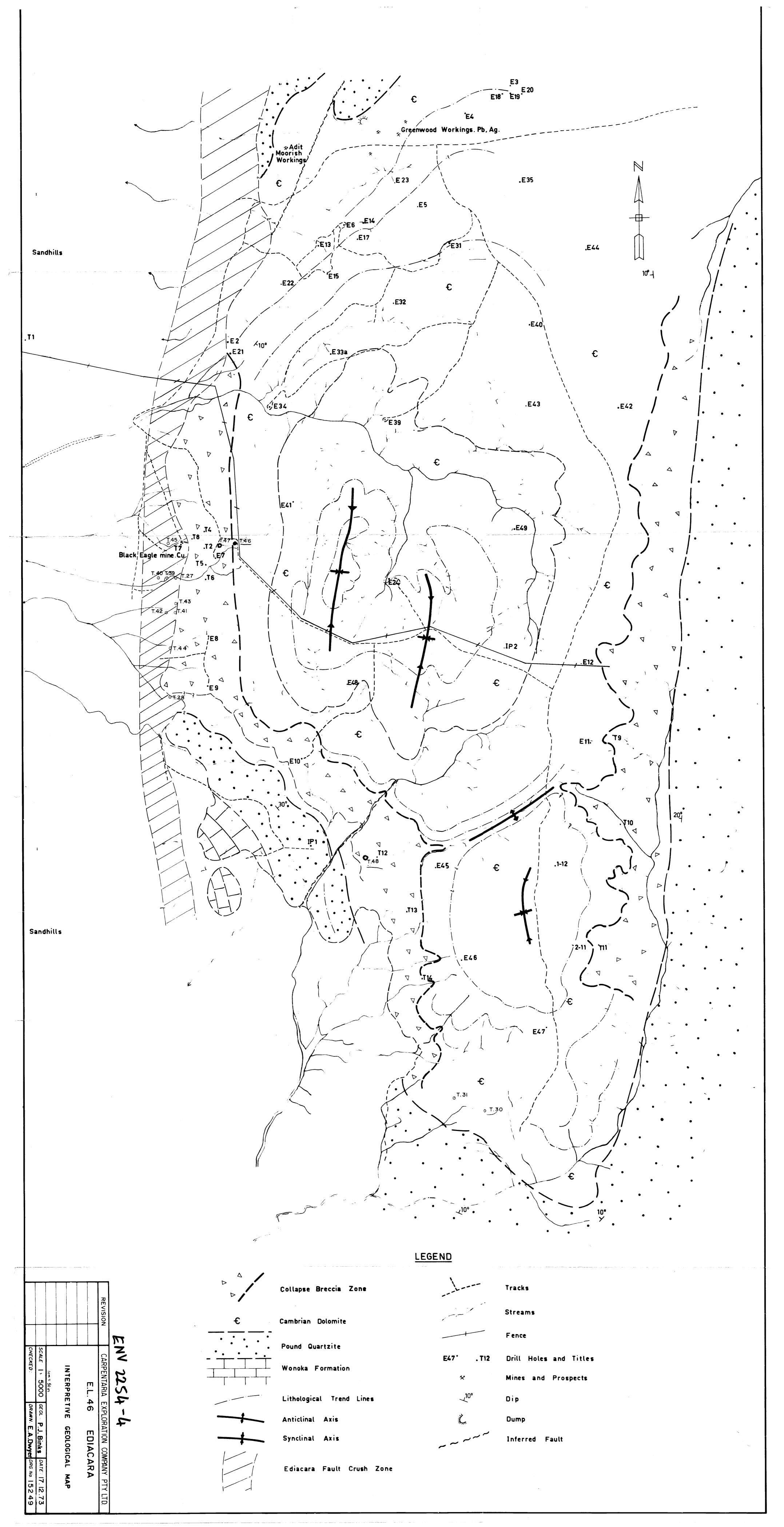
A.W. Howe

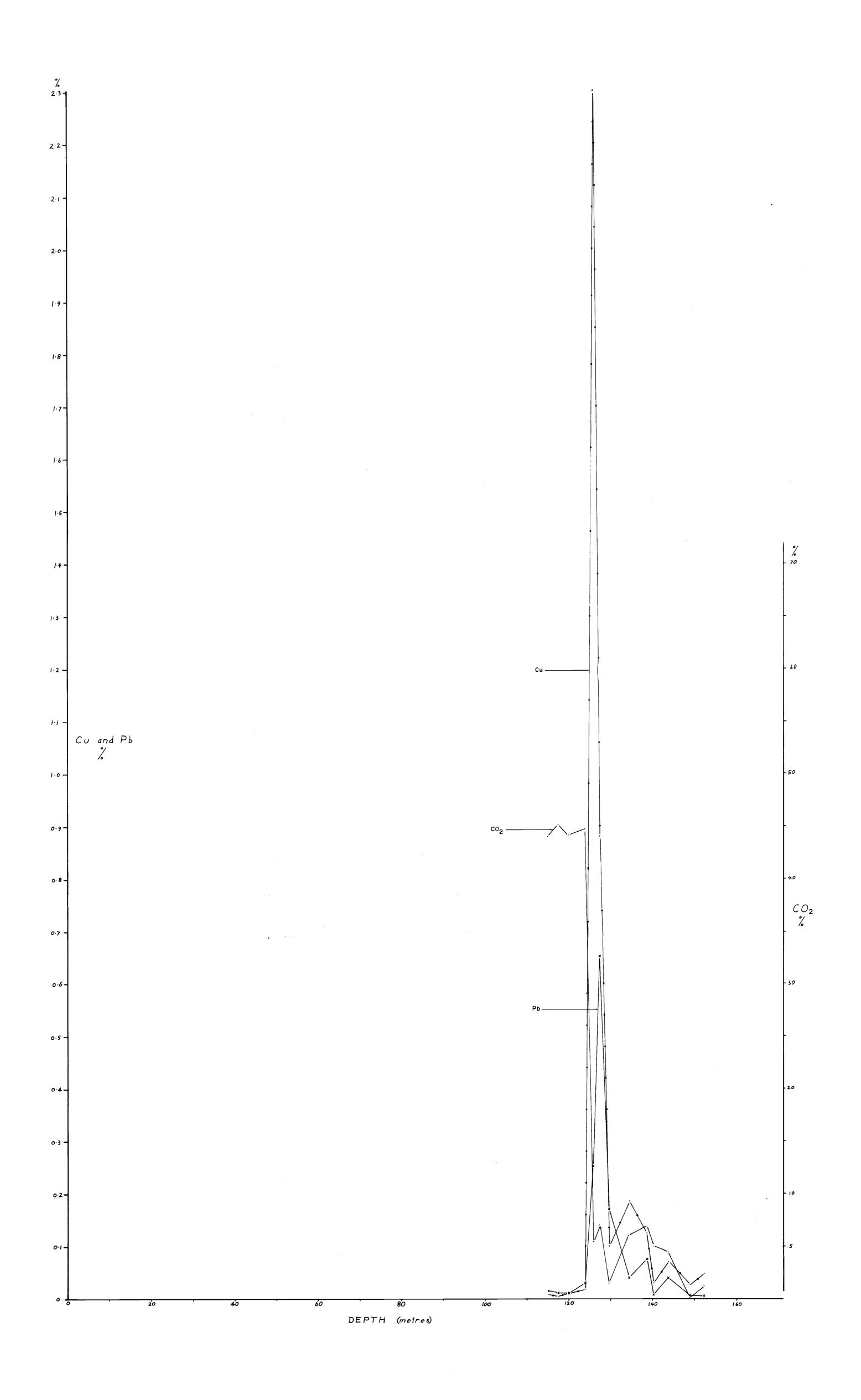
Administration Manager











ENV 2254-5

REVISION	SCALE: as shown	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO PJB	
	DRAWN: EAD	D. D. H. E. 45
	CHECKED:	PLOT OF ASSAYS
	DATE: 17.12.73	(Cu, Pb and CO ₂)
	MICROFILMED:	AGAINST DEPTH
	ROLL N°:	
	MINING FIELD or DISTRIC	CT: E.L. 46 EDIACARA S.A. DRG.Nº: 15 250