THE SHELL COMPANY OF AUSTRALIA LIMITED METALS DIVISION

ANNUAL REPORT ON EL 1203, LEILA YARD, NTH TERRITORY.

7th September, 1980 - 6th September, 1981

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1.0 INTRODUCTION

Exploration Licence (EL) 1203, located in the McArthur River region (Figure 1, page 2), was initially granted on the 7th September, 1976 over and area of 497.3 square miles. This was subsequently successively reduced to the present 59.54 square miles (154.21 sq km). An application has been lodged with the Department of Mines and Energy for renewal of the licence for a further 12 months. As this will be the final year of tenure the size of the licence area will be unchanged.

This report represents a summary of exploration activities in EL 1203 during the period 7th September, 1980 to 6th September, 1981.

Access to the area is by way of the Carpentaria Highway which passes through the Mt. Lynott portion of the EL and by way of station tracks branching off this highway to the Myrtle Basin portion of the EL.

2.0 TENURE AND JOINT VENTURE

2.1 Title

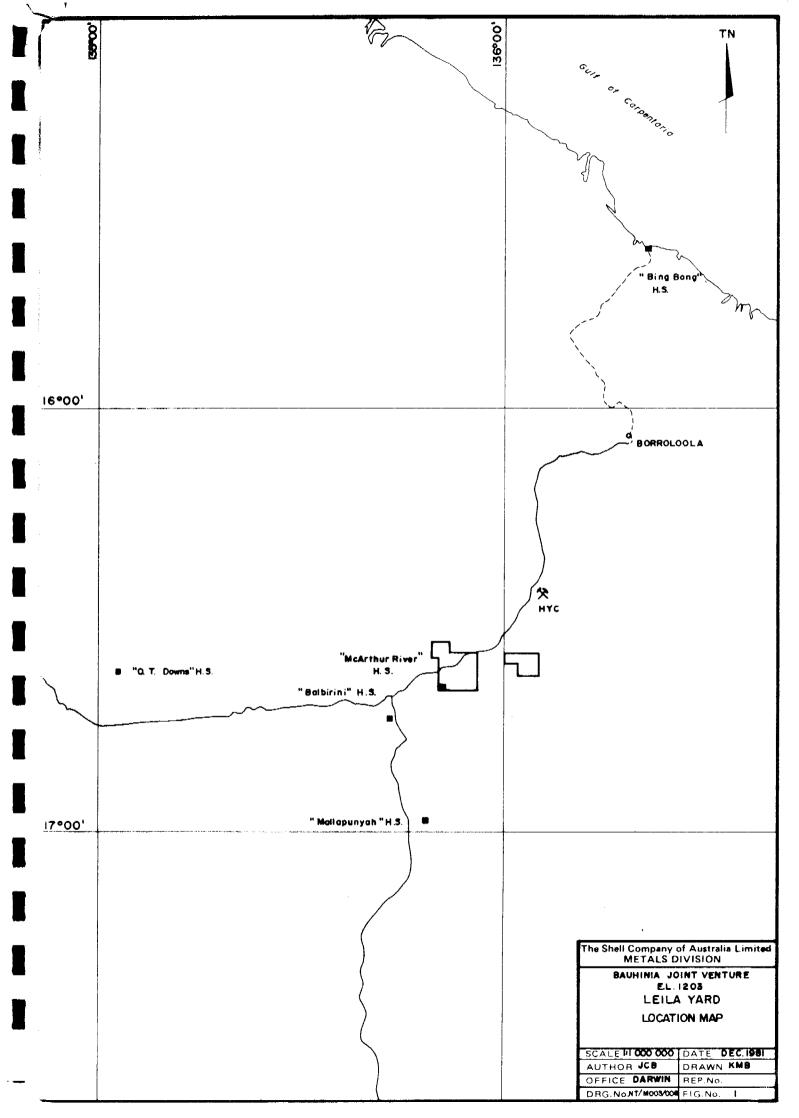
Refer to figure 2 (back pocket) for an outline of the licence area during the period of tenure.

2.2 Bauhinia Joint Venture

Exploration Licence 1203 is one of a number of licences in the McArthur River region which are the subject of the Bauhinia Joint Venture in which the following companies are participants:

The Shell Company of Australia Limited.
A.O. (Australia) Pty Ltd.
Electrolytic Zinc Company Ltd.
Penarroya (Australia) Pty Ltd.
Preussag Australia Ltd.

The Joint Venture was formed in November, 1976 with the aim of locating economic lead-zinc mineralisation of the HYC-type within the McArthur River region. The Agreement was approved and registered under the Northern Territory Mining Ordinance on the 28th January, 1977 with A.O. (Australia) Pty Ltd as Manager. On the 9th July, 1979, The Shell Company of Australia Limited entered into an agreement with the four above-mentioned companies by which is could earn a fifty percent interest in the Bauhinia Joint Venture and became the manager on the 1st April, 1981.



3.0 PHYSIOGRAPHY

Topographically the area falls within the Gulf fall physiographic unit. The area is drained by the McArthur river and its tributaries. Vegetation is medium density scrub and forest.

4.0 STRATIGRAPHY

Formation present within the licence area belong to the Proterozoic McArthur group sediments. Figure 3 and 4 (back pockets) present the detailed geology of the Mt Lynott and Amelia Basin portions of the licence area respectively.

5.0 PREVIOUS INVESTIGATIONS

Previous investigations in this EL has consisted of air photo interpretation, INPUT surveys, ground geophysical surveys (magnetics, I.P., and gravity) geological mapping and associated rock chip sampling and diamond drilling. Diamond drilling activities were concentrated in areas that were subsequently relinquished.

6.0 EXPLORATION ACTIVITIES SEPT. 1980 - SEPT. 1981.

Activities during this period of tenure consisted entirely of diamond drilling. Two holes, DDH MY 4 and DDH MY 5 were completed in the Myrtle Basin area and one hole DDH L 1 in the Mt. Lynott area.

DDH MY 4 was drilled on Line 6 S, 1200 W (Figure 4, backpocket) to test a gravity anomaly of approximately 1.5 milligals.

The hole was terminated at a depth of 137 metres. The following stratigraphic subdivisions have been made:

0 -	3.00 m	Non-core drilling
3.00-	4.90 m	Reward Dolomite
4.90-	19.00 m	Upper Surprise Creek Dolomite
19.00-	22.90 m	Upper Surprise Creek Pyritic Shale
22.90-	43.42 m	Lower Surprise Creek polomite
43.42-	85.57 m	Barney Creek Formation
87.57-	125.00 m	Teena Dolomite
125.00-	137.00 m	Mara Dolomite

Detailed logs and assays are presented in the Appendix 1, and Figure 5 (back pocket) provides a summary of the lithologies of DDH MY 4. Split core samples contained low levels of copper, lead and zinc; all samples assaying below 50 ppm Cu, 100 ppm Pb and 80 ppm Zn with two exceptions-a 0.10 metre section of weakly pyritic carbonaceous shale near the top of the Barney Creek Formation assayed 250 ppm Zn and a 0.86 metre section of pyritic shale near the base of the same formation assayed 480 ppm Pb and 0.20% Zn.

DDH L 1 was drilled on a 2 milligal gravity anomaly on the Highway line at 1400 W (Figure 3, back pocket). The hole was terminated at 527.0 m and the following stratigraphic subdivisions have been made:

	0	-	9.00	m	Non-co	re drill:	ing			
	9.00	_	217.75	m	Lynott	Formation	on (L	4)		
	217.75	_	260.50	m	**	11	(L	3)		
	260.50	_	339.85	m	11	"	(L	2)		
	399.85	-	364.05	m	11	T\$	(L	1)	i e	
	364.05	-	369.02	m	Reward	Dolomite	.			
	369.02	-	377.82	m		r Surpris Dolomite	se			
!	377.82	-	515.90	m	_	Creek Fo			Pyritic	Shale)
	515.90	-	519.45	m	Teena I	Dolomite	(T4)			
	519.45	_	527.00	m	**	11	(T3)			

Detailed lithological descriptions and analytical results are presented in Appendix 2 and a lithocolumn in Figure 6 (back pocket). Maximum assay values obtained averaged 33, 130 and 35 ppm respectively for Cu, Pb and Zn over a 4.88 m section between 359.00 and 363.88 m. A 10 cm interval between 356.03 and 356.13 m and located, as the previous interval, in the Lynott Formation produced 388 ppm Zn. The rest of the sequence produced uniformly low values and average assays for the Barney Creek Formation were 21,43 and 37 ppm for Cu Pb and Zn respectively.

DDH MY 5 located at 4.44 S, 2140 W in the Myrtle Basin area (Figure 4, back pocket) was completed to 387.30 m. This hole was designed to test the possible extension of mineralisation to the south and east of DDH Myrtle no 1 which intersected 35.7 m of 0.09% pb and 0.6% Zn within the Barney Creek Formation.

.4

Stratigraphic subdivisions were made as follows:

0 - 60.39 m Reward Dolomite (R2) 60.39 - 136.07 m Reward Dolomite (R1) 136.07 - 187.60 m Upper Surprise Creek Dolomite 187.60 - 193.15 m Surprise Creek Pyritic Shale 193.15 - 193.70 m Lower Surprise Creek Dolomite 193.70 - 323.38 m Barney Creek Formation 323.38 - 330.66 m B.C.F. Pyritic Shale 330.66 - 333.54 m Barney Creek Formation 333.54 - 369.20 m W-fold shale 369.20 - 387.30 m Teena Dolomite

A graphic lithocolumn is presented in Figure 7 (back pocket) and detailed lithological descriptions and drilling information are presented in Appendix 3. Drill hole correlations for the Myrtle Basin area are presented in Figure 8 (back pocket).

DDH MY 5 intersected a significant thickness of Barney Creek Formation (233.13 m) and it is evident from the drill hole correlations that drill holes 4 and 1 and to a lesser extent drillhole 3 represent shelf facies close to the edge of the basin with holes 2 and 5 located in the deeper parts of the basin.

Analytical results received after the 6th September, 1981, are also included in Appendix 3.

7.00 CONCLUSIONS

Poor results from DDH Ll has downgraded the potential of the Mt. Lynott portion of the EL.

Information from DDH MY 4 and MY 5 have indicated a thickening of the Barney Creek Formation towards DDH MY 5 and some relatively anomalous analytical results. Despite the small size of the deeper parts of the Myrtle Basin, significant mineralisation may still be located here.

APPENDIX 1

EL 1203, LEILA YARD

DDH MY 4 DETAILED LOGS AND ASSAYS

•	· GEOL	GICAL	LOG				Mine Code		Ms Code	Page	1
Mine/Pro	spect:	, , , , , , , , , , , , , , , , , , , 		Na	me: MYRT	LE DRILL H	OLE NO.4		core		····
Level:	<u></u>	Nort	hing: L	INE 6 S	Easting:	1200W		Collar R.L.	ground/pip		
Bearing	M/T/G:			Incline:		Length:	137m	Started:		Finished:	
Hole/Cor	e size:	· H	Q:	NQ:	BQ	Inter	vals assayed	.:			
Int	erval		Recov.y	Down Hole St	urvey - Me	thod:	date:	by:	L	ogged by:	
from	to	length	M/kg.			DESC	RIPTION				
0	3.0			Non core dril	lling	.					
3.0	4.90	1.90	1.20			dium bedde	d dolomitic	siltstone and	dololutite.	Thin (up t	t o
								herty silt bar			<u> </u>
			•••	rounded nodul							
· · · · · · · · · · · · · · · · · · ·				Fresher cores	occasiona	lly exhib	t thin often	discontinuous	s or mildly	disrupted	
·				laminated sha	aley dolomi	te bands.	Fe oxide s	taining and f	racture and	bedding coati	ings
				prominant.	Well devel	oped style	olites. C.B.	A.70°	<u>.</u>		
4.90	13.60	8.70	8.68								
(4.90	9.10)			Dusky yellow	and mottle	d greyish	orange and f	resher light	grey predomi	nantly thin	
				bedded dolomi	itic siltst	one. Min	or thin yell	owish orange	dololutite b	ands. Numero	ous
				disrupted med	dium grey t	hinly lam:	nated and no	nlaminated sh	aley dolomit	e and dolomit	te
				silt as disco	ontinuous s	trands or	microfaulted	wavey interb	eds. Very	minor sandsto	one.
				Rare cherty	silt bands	as above.	Stylolites	and Fe oxide	staining.		
(9.10	13.60}			Continuation	of above w	ith inter	nittent thin	(up to 10 mm	thick) thinl	y laminated	
				orange brown	shaley ban	ds interb	edded with me	dium light gr	ey siltstone	. Wavey or	
				pocrly bedded	d medium gr	ey and me	lium dark gre	y dolomitic s	hale or shal	ley dolomite.	
				Minor light	grey and gr	ey coarse	r grained thi	n dolomite la	yers with as	sociated tra	се
				pyrite.					··		
13.60	15.60	2.00	2.00	Transitional	interval.						<u> </u>
				Medium light	grey silts	tone (wea	thering stair	s as above).	Laminated s	shale componer	nt c.
								, and mildly			
				laminae less	disrupted	and more	abundant. C.	B.A. approx.	75 ⁰ .		
		ll	J								

' i	· GEOI	OGICAL	LOG		•		Mine	e Code			Ms Code		Page	2
Mine/Pro	ospect:			· N	ame:				•		core		•	
Level:		Nort	hing:	·	Easting:				Collar	R.L.	ground/	pipe:	· ····································	
Bearing	M/T/G:			Incline:	**************************************	Length:			Started	:		Fi	nished:	
Hole/Co	re size:	Н	Q:	NQ:	BQ	Inter	als a	ssayed:					'	
Int	terval		Recov.y	Down Hole S	urveý - Me	thod:	a	ate:	-	by:		Logged	by:	
from	to	length	M/kg.			DESC	RIPTIO	N			J	<u>.</u>		
15.60	19.00	3.40	3.40	Predominantly	y thin inte	rbedded do	lomiti	c silts	tone and	വിവ	mitic sha	lo F	rom 17.5	.0
		·		siltstone/sha										
				partings free							e bands o			
			٠.	discontinuous	s or especi								inor	
				associated co										out
····				some interbed	dded units.	CBA 72	-74°.							
19.00	22.90	3.90	3.77	Medium dark o	grey lamina	ted modera	tely p	vritic	dolomiti	c car	bonaceous	shale.	Pvrite	
·		<u> </u>		delicately la										
·	<u> </u>			Interbedded m	medium ligh	t grey sil	tstone	and mi	nor ligh	t gre	y dolomit	e and we	akly or	
• • • • • • •	_		<u> </u>	non-pyritic s										
· · · · · · · · · · · · · · · · · · ·				Minor small s	scale slump	ing and mi	crofau.	lting.	Pyritic	lami	nae exhib	it mild	plastic	;
				deformation w	with associ	ated poorl	y bedde	ed dolo	mite ban	ds.	Minor Fe	oxidat:	ion with	in
		<u> </u>		thin rare sha				edding	coatings	•				
00.00				Pyrite conten					· · · · · · · · · · · · · · · · · · ·		<u> </u>			
22.90	26.55	3.65	3.65	Medium light										
· · · · · · · · · · · · · · · · · · ·			•	Thin poorly b										
					ing through									base.
	-			Occasional ?d										
·	<u> </u>			disrupted mas				ents or	1.0 - 2	.Omm	thick 'la	thes' -	?flakes	
				of medium dar	rk grey dol	omitic sha	le.	···						
				Minor sparsel	ly dissemin	ated and c	oarser	graine	d or rar	e < 2.0	0mm thick	discre	e pyrit	е .
. +	1			bands - conte	ent < 2% C.	B.A. 720								-

ì	GEOLO	GICAL	LOG				Mine Code		Ms Code		Page	3	
Mine/Pros	pect:			N	ame:				core				
Level:		Nort	hing:		Easting:			Collar R	.L. ground/	pipe:			
Bearing M	ı/Ť/G:			Incline:	 	Length:		Started:		Fir	ished:		
lole/Core		н	Q:	NQ:	· BQ	Interva	ls assayed						
Inte	rval		Recov.y	Down Hole S	urvey - Me	thod:	date:	þ	y:	Logged	by:		
from	to ·	length	M/kg.		 	DESCRI	PTION						
26.55	43.15	16.60	16.56										
(26.55	27.30)												
				Poorly bedde	d interbedo	led light to	medium grey	_dolomitic	siltstone	and lamir	atod-si	ity	
			• •	dolomite. B	edding com	monly disrup	ted. Minor	?dolarenit	e breccia -	broken :	raqment	.s	
				and large sh	ale 'flakes	s' c.f. abov	e and thin	contorted d	olomitic sh	ale bands	·		
			ļ	Minor fine f	ractures or	recrystall	ized dolomi	te veining.					
(27.30	43.15)			Light grey t	o medium gi	rey dolomiti	c siltstone	and interb	edded very	light gre	y silty	<u>, </u>	
				dololutite. Regular thin laminated shaley dolomite and medium dark grey very weakly pyritic dolomitic shale approx. spaced every 20-44mm and up to 5mm thick.									
				pyritic dolo	mitic shale	approx. sp	aced every	20-44mm and	l up to 5mm	thick.			
				Vague eviden	ce of gradi	ing through	some interv	als. Coar	ser grained	silty do	olomite		
			•	(probable do	lomite/tuff	f stringers)	or thin sl	ightly disr	upted layer	s or str	ands evi	.den	
				throughout.									
				Rare breccia									
				parallel to									
				material. L							lled wit	<u>:h</u>	
				white crysta			r pyrite ble	os and frac	ture coatin	igs. Tr	ace		
				recrystalliz									
43.15	43.42	0.27	0.27	Planar fract	ure 45° CB	A sharply de	lineates th	is interval	from above	. Minor	associa	ited	
				Fe oxide sta	ining and s	weathering o	f fracture	margins.		. <u> </u>			
				Abundant rec	rystallize	d dolomite f	illed fract	ures and ve	ining in br	recciated	and/or		
				disrupted me	dium grey	dolomite.	Thin contor	ted dark gr	ey shale ba	ands or c	lasts,		
			1	very pale pi	nkish gree	nish grey ch	erty dolomi	te/tuff and	l siltstone	bands.	dinor sa	me	

A.O. (AUSTRALIA) FIF LID

<u> </u>	GEOL	OGICAL	LOG				Mine Code			Ms Code	}	Page 4
Mine/Pro	spect:			Na	ime :	•				core	•	
Level:		Nort	hing:		Easting:			Collar	R.L.	ground/	pipe:	
Bearing	M/T/G:		**************************************	Incline:		Length:		Started	:		Fin	nished:
Hole/Cor	re size:	Н	Q:	NQ:	BQ	Interva	ls assayed	!				
Int	erval		Recov.y	Down Hole Su	rvey - Me	thod:	date:		by:		Logged	by:
from	to.	length	M/kg.			DESCRI	PTION					
43.15	43.42	0.27	0.27	dolarenite ma	trix. Min	nor pyrite as	hlehe or				_ •	
1			(Contd.)			·	MICHS UI	LUGISE U	raine	u_aggrega	ares	
43.42	45.92	2.50	2.50	Medium dark a	nd dark gre	ey interbedd	ed weakly r	vritic de	olomi	tic and o	carbonace	ons shale
			',	and medium gr	ey tuffaced	ous siltston	e with fine	spindle	lami	nations,	up to 10	Omm thick.
	· · · · · ·	 		Grading occas	ionally ev	ident with q	raded tuffa	ceous si	ltsto	ne units	as based	lor near
			<u> </u>	basal compone	nts.							
		ļ	ļ	Numerous ligh	t greenish	grey and oc	casionally	pinkish (grey	laminated	d_cherty	dolomite/
				tuff bands an	d thin str	ingers inter	laminated w	ith tuff	aceou	s siltsto	one and d	lark grey
	<u> </u>	ļ		shale.	•							
			<u> </u>	Dolomite/tuff	in bands	from 2.0mm	to 40.0mm t	hick ofte	en exi	hibiting	some dis	ruption or
· · · · · · · · · · · · · · · · · · ·				upper and low	er bedding	boundaries	sharply ter	minated.	Pri	nciple Do	olomite/t	uff bands or
		·		domposite clu	sters reco	gnised between	en 44.13 -	44.19;	45.25	- 45.31	and 46.1	5 - 46.21.
45.00				Minor coarse	grained py	rite and rare	e sphalerit	e specks	evide	ent withi	in tuff c	omponent.
45.92	50.13	4.21	3.68									
(45.92	47.97)									,		
·			•	Continuation of	of above wi	ith only mine	or pale pin	k/greenis	sh che	erty dolo	omite/tuf	f bands and
·····				stringers. P	rominent to	iffaceous si	ltstone evi	dent betw	veen 4	47.59 - 4	47.97, va	guely
	<u> </u>			graded with co	oarse light	t and grey s	oindle lami	nations.				
				Thin ₹ 10.0mm 1	band compri	ising small h	oedded 'ool	itic' car	rbonat	te granul	les at 46	.19. Trace
·				associated sp:	halerite.	CBA 70 ^O						
	[]		_									
									···· -			
		1								·		

GEOLO	GICAL	LOG			•	Mine Code		Ms Code	Page 5
spect:			N	lame:		· ·	·	core	
	Nort	hing:		Easting:			Collar R.L.	ground/p	ipe:
1/T/G:			Incline:		Started:	Finished:			
	н	Q:	NQ:	BQ	Interva	ls assayed	•		•
		Recov.y	Down Hole S	Survey - Me	thod:	date:	by:		Logged by:
to	length	M/kg.			DESCRI	PTION			
50 13)			(END	OF NO	ORE 48.20)			
30.13/		1					ic shale and t	hin interb	edded tuffaceous
		<u> </u>	siltstone wi	th fine spi	ndle lamina	tions. Ra	re thìn (≤ 10r	am) pyritic	c carbonaceous shale
			hands Mino	or purite b	lehs and dol	omite fract	ere fills. To	ace sphale	erite
60.90	10.77	10.85		· · · · · · · · · · · · · · · · · · ·					
			Medium grev	and medium	dark grev t	hinly inter	bedded silty	halo and a	weakly pyritic
			dolomitic sh	nale, inter	oedded or gr	ading to co	arser tufface	ous siltsto	one with find spind
			laminations.	•					
			Conspicuous	light and	grey interla	minated coa	rse textured	dolomite b	ands commonly < 3.0m
			but up to 10	00mm thick.	Bedding u	nits predom	inantly thinn	er and bet	ter defined with
·			depth.						
·			Moderately 1	fractured t					
								ted with f	ractures. Well
59.00)			Continuation	n of above	with light/g	rey dolomit	e bands remai	ning as fr	equent but with
			Tuffaceous	siltstone l	ess predomin	ant and int	erval darker	grey towar	ds 59.00
			Sphalerite	as microsco	pic grains w	vithin coars	er textured l	ight colou	red dolomite
			(3.0mm) ban	d at 54.55	and rare dis	screte cryst	alline band (1.0mm thic	k) at 57.57. Minor
		1	pyrite as b	lebs within	shale compo	onent or coa	rser grained	clots asso	ciated with fractur
-	 		- 						
	pect: 1/T/G: size: 2rval to 50.13) 60.90 52.50)	Nort 1/T/G: 2 size: 1 to length 50.13) 60.90 10.77 52.50)	Northing:	Northing: Incline: Northing:	Northing: Northing: Easting:	Northing: Northing: Easting: Length:	pect: Northing: Easting: Length:	Northing: Easting: Collar R.L.	Northing: Easting: Collar R.L. ground/p

A.O. (AUSTRALIA) PTY LTD Mine Code Ms Code Page 6 core Name: Collar R.L. ground/pipe: Easting:

20.02.		1									
Bearing	M/T/G:			Incline:		Length:		Started			Finished:
Hole/Cor	e size:	н	Q:	NQ:	BQ	Intervals	assayed	:			
Int	erval		Recov.y	Down Hole S	urvey - Me	thod:	date:		by:	Logo	ged by:
from	to	length	M/kg.			DESCRIPT	ЮИ				
(59.00	60.90)	1.		Continuation	of above.	Moderate to al	oundant	fracturin	and dole	omite veir	ning to 60.20.
				Slickenside s	slip surface	es common.	•	•			
			1	Two thin (10-	-20mm) breco	ciated (sedimer	ntary) b	ands at 5	9.93 and	d 60.77.	Small shale
				1		ish grey mudsto					
(60.90	63.10	2.20	2.20	Medium grey a	and medium	dark grey thin	bedded	tuffaceou	s siltsto	ne. Thin	interbedded
			-	and interlam	inated ligh	t grey or very	pale gr	eenish gr	ey dolomi	te bands	(possibly with
				tuffaceous co	omponent),	up to 20mm thic	ck. Min	or silty	or dolomi	tic shale.	. Thin light
				grey white co	oarse textu	red dolomite s	tringers	less abu	ndant tha	n above	Minor post
				consolidation	n fracturin	g and microfau	lting.	CBA 75-76	•	•	
63.10	64.07	0.97	0.95	Medium grey	coarse text	ured silty dol	arenite.	Poorly	interbed	ded silty	shale and
				tuffaceous s	iltstone.	Light greystre	aky thin	dolomite	stringer	s or lami	nae. Interval
	·			mildly fracts	ured and be	dding mildly d	isrupted	. Recrys	tallized :	sphalerite	e as minor
				small clots.	Coarse c	rystalline pyr:	ite bleb	s occasio	nally evi	dent.	<u>.</u>
64.07	76.87	12.80	12.75	Medium grey	tuffaceous	siltstone with	fine sp	indle lam	inations	as thin be	edded regular
				units (common	nly 0.5 - 2	.0 cm thick).	Numero	us thin l	ight grey	, medium	grey or rarely
			•	bluish/green:	ish grey in	terbedded shale	ey silts	tone or r	are tuffa	ceous mud:	stone (5-10mm).
!		•		Grading some	times evide	nt with lighte.	r interb	eds witho	ut lamina	tions, gr	ading to
:				spindle lamin	nated tuffa	ceous siltston	e. Oft	en slight	ly coarse	r texture	d and darker
				grey towards	the base.	Minor dark gr	ey shale	bands.			
	1			Fine dilation	n cracks oc	casionally evi	dent.	Bedding r	egularity	often in	terrupted by
	li .			fragment sma	ll scale sl	umping/microfa	ulting,	and rarer	stvlolit	ic or whi	te crystalline
				dolomite fil	led fractur	es. Minor py	rite as	sparse gr	ains or f	racture a	nd bedding
	44			<u> </u>							

LOG

Northing:

GEOLOGICAL

Mine/Prospect:

Level:

i	GEOL	OGICAL	LOG	•		•	Mine Code	······································	Ms Code		Page 7		
Mine/Pros	spect:			N	ame:		,		core				
Level:		Nort	hing:	•	Easting:			Collar R.	.L. ground/	pipe:			
Bearing N	M/T/G:			Incline: Length: Started:					Fin	ished:			
Hole/Core	e size:	H	Q:	NQ:	BQ	Interva.	ls assayed:						
Inte	erval		Recov.y	Down Hole S	urvey - Met	thod:	date:	b)	<u></u>	Logged	by:		
from	to	length	M/kg			DESCRI							
64.07	76.87	12.80	12.75	coatings. T	race enhalo	rite D	nant frant	nwina 1					
			(contd)	between 68.4	0 - 68.70.	crite. Prom CBA variab	te 78°.	uring and s	solution col	Lapse hr	accia		
76.87	83.82	6.95	6.92	Short gradat	ional zone	<u>over</u> 0.30m.	from above	. to predom	ninantly med	lium dark			
				dolomitic ca	rbonaceous	shale. This	i (<1-2mm)	disrupted,	slumped, an	d microf	aulted		
	<u> </u>					grey mudsto			nly contorte	d/plasti	cally		
		ļ		deformed thi	n discontin	nuous and cr	umbled band	s.			· · · · · · · · · · · · · · · · · · ·		
<u> </u>			 	Tuffaceous s	iltstone le	ss distinct	than above	interval b	out evident	throughou	ıt some		
					Bedding and	l laminations	only rare	ly with wel	ll defined u	pper and	lower		
				margins.									
			<u> </u>	Rare thin so						th dark	rey shale -		
			<u> </u>	most promine									
				Distinctive									
			 	matrix and s							e no fracture		
				and vein inf		ted recryst.	llized dol	omite. C.B	3.A. 70-75°	: 42 ⁰ bet	ween		
			<u> </u>	77.63 - 78.3	9.								
83.82	85.57	1.75	1.75	Thin interbe									
				pyritic shal		g invariably		with micro	ofaulted and	minor sl	lump		
		<u> </u>		thickened py	ritic shale	interbeds.	Pyrite r.	ich bands e	xhibiting m	arked dec	rease in		
				pyrite conte	nt from 84.	70 to base.	Pyrite Co	ontent 15-2	20% between	83.82 - 8	34.70.		
				Pyritic shale	e interbeds	delicately	laminated o	or as fine	discontinuo	us wisps.	Minute		
				discoidal or									
:				Interbedded									
									ulbs		F1-466 (0)		

<u> </u>	GEOLO	GICAL	LOG				Mine Code		Ms Code	Page	В				
Mine/Pros	spect:			N	ame:				core						
Level:		Nort	hing:		Easting:			Collar R.L.	ground/pi						
Bearing N	1/T/G:			Incline:		Length:		Started:		Finished:					
	e size:	н	Q:	NQ:	BQ	Interv	als assayed			· .					
	erval		Recov.y	Down Hole S	urvey - Me	thod:	date:	by:	1	Logged by:					
from	to	length	M/kg.				IPTION								
	ļ		1		Winner Europ	turing and	trace cobale	rite variable	CBA 50-65	0					
83.82	85.57	1.75	1.75 (contd)	Enroughout.	MINOF IFAC	turing and	trace spirare	tite variable	CDA JO-03		_				
85.87 (85.57	94.40 86.05)	.8.83	8.90	Count ob one		arcon thin	lu boddod ti	iffaceous muds	stone Thi	n medium grey a					
(03.37	00.037	l								as undulating,					
										sh green bands.					
															
(86.05	87.50)				nal large concretionary pyrite bodies up to 3 cm long. le grenish pink dolomite/tuff with associated medium dark grey staining or										
(00.05	07.507				ed mottling. Nodular bedding. Plastically deformed pale greyish green										
			#		uff interbe	ds.				·					
(87.50	87.85)		 				core with p	ale pinkish d	olomite/tuf	f as contorted	<u>/</u>				
										ouff or yellowi					
	 			mudstone/tu						ix or laminate					
				disrupted i				rained pyrite							
(87.85	94.40)			Mudstone/?	uff : 20mm,	94.40; 10	Omm, 93.84;	10mm, 93.04;	50mm, 93.7	75; 70mm, 89.9	5;				
,								88.60 - 88.9							
			• •.							nely fractured					
				dolomite/tu	iff. Occasi	onal thin b	orecciated z	ones and thin	disrupted	greyish green	ar				
				grey interl	oedded, lami	nated wave	y mudstone a	nd shale or a	s matrix.	Some boudinage					
<u> </u>				style bedd:	ing.										
				From appro	cimately 91.	50 - 94.40	, mudstone l	ess abundant	and gradati	ional to typica	1)				
							. CBA varia								
											_				
	il	<u> </u>		1			•								

		-		<u>A.O</u>	.(AUSTRALIA) 1	PTY LTD				<u> </u>		
· GEOL	OGICAL	LOG	·		· M	ine Code			Ms Code		Page	9
spect:				ame:		•	•		core		-	
	Nort	hing:		Easting:			Collar	R.L.	ground/p	ipe:		
M/T/G:			Incline:	<u></u>	Length:		Started			Fir	nished:	}
	H	Ω:	NQ:	BQ	Intervals	assayed						
erval		Recov.y	Down Hole S	Survey - Me	thod:	date:		by:		Logged	by:	
to	length	M/kg.		···	DESCRIPT	ION						
97.02	2.62	2.62	Medium grev	thin bedded	d coarse granu	lar dolom:	tic silt	stone	or silty	arenite	e and	
1 27.00			·									
			Numerous thi	n (≤50mm)	pale pink, wh	ite nonla	minated d	olomi	te/tuff ba	ands.	Minor	coarse
		• •	grained pyri	te. Rare	stylolites.	CBA 65-6	90					
101.60	4.58	4.60	Light and me	dium grey	and greyish pi	nk crysta.	lline dol	omite	. Thin	crinkle	d, ligh	t
			grey brown a	ınd dark gr	y shaley inte	rbeds and	non-lami	nated	l more mas:	sive mo	ttled p	inkish
			and grey ban	ds with ab	undant radiati	ng pseudo	norphs af	ter g	ypsum. M	oderate	ly frac	tured
			and rare sol	ution coll	apse brecciate	d zones,	viz., bet	ween	98.91 - 9	9.01.	Freque	ent
	<u> </u>		stylolites o	outlined or	infilled with	brownish	or dark	grey	shale or	mudston	e.	
			Crystalline	dolomite f.	illed cavities	. Minor	oitch.					,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
102.92	1.32	1.32	Medium dark	grey lamin	ated shale as	beds up t	o 100mm t	hick	or matrix	- pink	/brown	
1		·	 									a
			pinkish dolo	omite and d	olomite/tuff b	ands c.f.	94.40 -	97.02	2. Minor	pyrite	and	
		İ	sphalerite.	Rare styl	olites.						•	
114.72	11.80	11.20	 									
1		ļ	Frequent lig	jht grey, m	edium grey mot	tled crys	talline d	iolomi	te bands	with ra	diating	ł
	·		pseudomorphs	often gyp	sum less abund	ant from	110.00 ar	nd ver	ry rare ne	ar the	base.	
			Thin bedded	laminated	dark grey, pin	kish brow	n interbe	eds up	to 15 cm	, and g	rey coa	arse
			11									
 	 		41				if gypsu	ım pse	eudomorphs	develo	ping ir	1
- 		 	-									
 	 											
	m/T/G: e size: erval to 97.02 101.60	Nort M/T/G: e size: H erval to length 97.02 2.62	Northing: M/T/G: HQ: Recov.y to length M/kg 97.02 2.62 2.62	Spect: Northing: Incline:	Spect: Northing: Easting:	Spect: Name: Northing: Easting:	Northing: Easting:	Spect: Northing: Easting: Collar	Spect: Name: Northing: Easting: Collar R.L. M/T/G: Incline: Length: Started: e size: HQ: NQ: BQ Intervals assayed:	Spect: Name: Core	Spect: Name: Collar R.L. ground/pipe:	Spect: Name: Core

<u></u>	GEOL	OGICAL	LOG				Mine Code	*************		Ms Code		Page 10	_
Mine/Pro	spect:			N	lame:		•			core			
Level:		Nort	hing:		Easting:			Collar	R.L.	ground/	pipe:		
Bearing	M/T/G:			Incline:		Length:		Started:				inished:	
Hole/Cor	e size: ·	н	Q:	NQ:	BQ	Interv	als assayed	:					
Int	erval		Recov.y	Down Hole S	urvey - Me	thod:	date:		by:		Logge	d by:	
from	to .	length	M/kg.	**************************************		DESCR	IPTION		<u> </u>		1		<u> </u>
102.92	114.72	11.80	11.20	globules occ	casionally s	with platey	crystalline	habit.	0cc	asional m	iigatone	tuff and	
			(contd)	white cherty						-0201142 111	445 00110	, carr and	
114.72	125.00	10.28	10.20	Međium light						laminated	to thi	in bedded	-
			· .	commonly bre	cciated or	disrupted	light grey d	olomite.		•		rey tuffaceou	ıs
				siltstone an	d laminate	d dolomitic	shale.						
				Numerous int	ervals lam	inated to th	nin wavey bed	ded pale	grey	ish green	or lie	ht brownish	
				grey shale/m	nudstone. I	Rare 'ptygm	atic' mudcra	ck struct	ures	·			
	·			From 115.70	thin sandy	and sandy	dolarenite 1	enses - m	ost d	listincti	ve betw	veen	_
				121.45 - 50.							•	· · · · · · · · · · · · · · · · · · ·	
125.00	128.50	3.50	3.50	Predominantl	y medium.l:	ight grey a	nd light gre	y laminat	ed st	romatoli	tic dol	omite - algal	
				laminae ofte						Probable			
j 			<u> </u>	_							_	stromatolite	
				possibly ext									
				tuffaceous s	iltstone fr	rom 127.00.	Rare small	blebs sp	haleı	cite.		•	
128.50	137.00	8.50	8.50	Light and me	dium grey t	thin bedded	or laminate	d cherty	dolor	nite and	dolomit	ic siltstone.	
				Laminations	commonly or	utlined as	fine undulat	ing shale	or s	haley fi	lled st	ylolites.	
				More massive	beds appea	ar mildly m	ottled with	small ver	y liq	ht grey	'ghost'	dolomite	_
							orted light				~		_
				occasional s				p to 1.0m			· · · · · · · · · · · · · · · · · · ·		
				Trace galena	135.10	CBA approx.	60°.					•	-
· · · · · · · · · · · · · · · · · · ·						END OF H	OLE 137.00	m			 , ,		
}] [- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	·		'		_

SPLIT CORE	SAMPL	E ·	DENSITY	VALUES
Interval (metres)	Cu Pb ppm ppm	Zn ppm	Split Core Interval (metres)	Density g/cm ³
4.65 - 4.75 11.91 - 12.01 17.04 - 17.17 21.09 - 21.11 29.65 - 29.74 44.33 - 44.43 52.18 - 52.28 61.18 - 61.27 66.03 - 66.12 74.87 - 74.96 83.84 - 84.70 87.37 - 87.46 97.25 - 97.36 115.97 - 116.05 136.12 - 136.23	10 50 20 60 10 55 20 90 10 60 30 80 15 70 10 60 15 70 20 50 50 480 10 45 10 60 5 70 5 60	70 30 20 25 40 250 20 50 45 20 0.20 15 15	4.65 - 4.75 11.91 - 12.01 17.04 - 17.17 21.09 - 21.11 29.65 - 29.74 44.33 - 44.43 52.18 - 52.28 61.18 - 61.27 66.03 - 66.12 74.87 - 74.96 83.84 - 84.70 87.37 - 87.46 97.25 - 97.36 115.97 - 116.05 136.12 - 136.23	2.72 2.68 2.74 2.95 2.64 2.63 2.73 2.67 2.83 2.63 not determined 2.50 2.74 2.81 2.80

APPENDIX 2

EL 1203, LEILA YARD

DDH L1 DETAILED LOGS AND ASSAYS

DRILL HOLE:

Leila D.D.H. No. 1

LOCATION:

Highway Line/1400s - E.L. 1203

OBJECTIVE:

To test an unclosed positive gravity anomaly. (approx. amplitude 2.0 milligals).

FINAL DEPTH:

527.00 metres

CORE RECOVERY:

100%

STRATICRAPHY:	0 - 9.0m Non-core drilling 9.0 - 217.75m Lynott Formation L ₄ 217.75 - 260.50m " L ₃ 260.50 - 339.85m " L ₃
?Reward Dolomite	339.85 - 364.05m " " L ₁ " " L ₁ " (364.05 - 369.02m Reward Dolomite (369.02 - 377.82m Pupper Surprise Creek Dolomite
	377.82 - 515.90m Barney Creek Formation (?incl. Surprise Ck. Pyritic Shale)
	515.90 - 519.45m Teena Dolomite T ₄ 519.45 - 527.00m " T ₃

GEOCHEMISTRY:

D.D.H.L	<u>Ir</u>	iter	<u>ral</u>	<u>Cu</u>	<u>Pb</u>	$\underline{\mathbf{z}}\mathbf{n}$	Strat.
8900	326.86	_	326.96	41	70	47	L ₂
8901	344.64	_	344.74	29	52	97	L
8902	347.85	-	347.94	23	62	34	L ₁
8903	352,44	-	352.53	19	65	32	$^{\mathrm{L}}_{1}^{-}$
8904	356.03	-	356.13	20	45	388	<u>"</u>
8905	359.00	-	360.00	34	138	46	$^{\mathtt{L}}_{\mathtt{l}}$
8906	360.00	_	361.00	33	137	39	$^{\mathrm{L}}_{1}^{-}$
8907	363.78		363.88	31	116	20	L ₁
8908	367.21	-	367.31	8	51	15	Reward
8909	375.82	_	375.92	16	41	24	Upper Surprise Ck.
8910	380.88	-	380.99	28	37	31	B.C.F.
8911	407.24	-	407.33	16	34	40	B.C.F.
8912	427.88	-	428.00	17	51	58	B.C.F.
8913	451.90	-	452.00	16	38	32	B.C.F.
8914	476.12	_	476.22	22	57	32	B.C.F.
8915	497.00	-	497.12	26	38	27	B.C.F.
8916	497.96	_	498.07	1	not assa	yed.	B.C.F.
8917	499.03	-	499.14	29	47	136	B.C.F.
8918	500.46	-	500.56	35	72	67	B.C.F.
8919	501.76		501.86	29	46	87	B.C.F.
8920	514.30	_	514.40	20	26	23	B.C.F.

	GEOL	OGICAL	LOG		····		Mine Coue		Ms Code	Page 1
Mine/Pro:	spect:	<u></u>			Name: LEILA	NO. I	•		core	
Level:		Nort	hing: 1	400S	Easting:	HIGHWAY LIN	IE	Collar R.L.	ground/pi	pe:
Bearing 1	M/T/G:			Incline:		Length:		Started:		Finished:
Hole/Cor	e size:	. н	Q:	NQ:	BQ	Interva	ls assayed			• .
Int	erval		Recov.y	Down Hole	Survey - Me	ethod:	date:	by:	I	ogged by:
from	to	length	M/kg		······································	DESCRI	PTION	· · · · · · · · · · · · · · · · · · ·		
0	9.0			Non-core dr	illing		ci	ltstone		
9.0	11.80	2.80		Pale yellow	ish orange	thin bedded		nd greyish g	reen sandy	dolomite.
				Abundant sm	all cherty	and secondar	y silica bl	ebs. Shaley	green muds	tone bands
			٠.	especially	near base.	Manganese o	•			•
							C.B.A. 70	0		
11.80	12.10	.30		Pale yellow	weathered	siltstone.	Rare carbon	ate lined -ca	vities and g	rey ,
				chert concr						,
12.10	13.00	.90		Partially w	eathered si	lliceous thir	poorly bed	lded greyish	green mudst	one and pale
				pinkish sil	tstone and	cherty silts	stone. Seve	rely leached	sections p	orous
				and dark ye	llow. Mar	nganese mott	ling and sta	ining.		
13.00	13.12	.12		Interbedded	laminated	medium dark	grey shale	dolomite or	shale and	light
				grey dololu	tite. ? mu	dcracks		· · · · · · · · · · · · · · · · · · ·		
							C.B.A. 74	10		
13.12	15.10	1.98		Pale yellow	ish pink le	eached mottle	ed quartz si	ltstone. Fr	equent coar	se grained
				quartz sand	components	s as disrupto	ed clumps of	isolated gr	ains throug	hout. c.f.9.0 - 11.
15.10	16.70	1.60						e. Occasiona		
			<u> </u>							ne near base.
								stalline roun		
•				to 30mm acr	coss; Uncut	t surface re	miniscent o	f 'caulifloum	chert mod	iules'.
							C.B.A. 7	0°		
16:70	17.38	.60		Greyish gre	en thinly	laminated (?	algal) mud	stone. Brown	ish cherty	interlaminae.
				Poorly inte	erbedded pa	le orange si	ltstone. M	udcracks. Sm	all halite	casts on bedding
	 	 			······································					

17.38 17.88 17.88 19.60 1. 19.60 20.00 20.00 21.15 1.	Northing: HQ: Recov.y ength M/kg	DESCRIPTION surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
Page 1	HQ: Recov.y ength M/kg	Incline: Length: Started: Finished: NQ: BQ Intervals assayed: Down Hole Survey - Method: date: by: Logged by: DESCRIPTION surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
Interval Irom to le 17.38 17.88 . 17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	Recov.y	NQ: BQ Intervals assayed: Down Hole Survey - Method: date: by: Logged by: DESCRIPTION surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
Interval Irom to le 17.38 17.88 . 17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	Recov.y	Down Hole Survey - Method: date: by: Logged by: DESCRIPTION surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
Interval rom to le 17.38 17.88 . 17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	ength M/kg.	DESCRIPTION surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
17.38 17.88 . 17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.		surfaces and rare cherty micro-'cauliflour' nodules evident especially between 16.70 - 16.85.
17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	.50	16.70 - 16.85.
17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	.50	16.70 - 16.85.
17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.	.50	
17.88 19.60 1. 19.60 20.00 . 20.00 21.15 1.		Medium dark grey laminated shaley dolomite, dolomitic shale and thinly interbedded
19.60 20.00 . 20.00 21.15 1.		medium grey siltstone. Probable algal laminations. Poorly bedded white/grey colitic
19.60 20.00 . 20.00 21.15 1.		carbonate lenses at base.
20.00 21.15 1.	.72	Medium light grey thin poorly bedded dolomitic siltstone. Occasional thin (< 2mm)
20.00 21.15 1.		laminated wavey shaley bands.
20.00 21.15 1.		C.B.A. 75°
	.40	Medium light grey dolomitic sandstone and siltstone.
21.15 21.70 .	.15	Medium light grey and light grey to light greenish grey siltstone and interbedded
21.15 21.70		dololutite.Minor medium grey shaley siltstone bands. Minor intraformational brecciation
21.15 21.70 .		Small cherty and secondary silica blebs.
	.55	Medium dark grey dolomitic shale and thinly laminated shaley dolomite. Thin
		interbedded tuffaceous siltstone and light grey dololutite. Deformed dolarenite or
		sandstone bands.
21.70 23.40 1.	.70	c.f. 200.0 - 21.15
		Frequent flake breccia with either disconnected shale laminae or greyish green (?)
		mudstone in siltstone matrix. Minor dolarenite. Trace pyrite. Minor fracturing.
23.40 25.05 1.	.65	Light greenish grey coarse textured siltstone and thin to medium bedded greenish
		grey mudstone. (up to 50mm). Bands to 300mm of thinly ? algal laminated medium
		dark grey shaley dolomite or shale. Light grey dolomite bands. Disrupted bedding
		and brecciation common. Stellate crystalline carbonate structures (? pseudomorphs)

1	GEOLO	GICAL	LOG				Mine Coue		Ms Code	Page 3	}
ine/Pros	spect:	 		N	ame: LEIL	A NO.1	•		core		
evel:		Nort	hing:	1400S	Easting:	HIGHWAY L	INE	Collar R.L	. ground/pi	pe:	
earing N	4/T/G:			Incline:	·	Length:	<u> </u>	Started:		Finished:	
lole/Core		Н	Q:	NQ:	BQ	Interva	ls assayed:	:			
	erval		Recov.y	Down Hole S	urvey - Me	thod:	date:	by:	I	ogged by:	
rom	to	length	M/kg			DESCRI	PTION	<u> </u>			
				within basal	200mm						
25.05	28.40	3.35				and vellow	ish thin bed	dded silty do	lomite, med:	ium grey	-
25.05	28.40	3.33		l				dy clusters o			
								ity fill. Gr			
				weathering s							
							B.A. 74				
28.40	29.80	1.40						laminated dol			
		· · · · · · · · · · · · · · · · · · ·		shaley tuffa	ceous silts	stone. Inte	rbedded lig	ht greenish o	rey mudston	e and silty	
				dololutite u	ip to 200mm.	Minor d	olarenite.	Stylolites a	and probable	mudcracks evide	ent.
				Minor coarse	grained p	vrite associ	ated with f	ractures.			
29 80	36.05	6.25						fine and cou	urse siltsto	ne. Bedding	
			·							. Minor medium	
				dark grey do	olomitic sh	ale and ligh	t greenish	grey mudstone	e - dololuti	te. Frequent	
				medium coars	se grained	to fine grai	ned sandsto	ne bands. Si	mall seconda	ry silica blebs	,
				evident thro	oughout som	e bands. Ir	traformatio	nal brecciat	ion common.		
			 		- 			C.B.A. 75°			
	<u> </u>					F NO CORE					
36.05	37.60	1,55								and medium dark	
										Minor shaley an	ıd.
				coarse sand	y dolarenit	e. Shaley i	ntervals co	mmonly wavey	and disrupt	ed. Pyrite as	
				solid fract	ure fill ov	er 400mm.					
<u> </u>											

			· · · · · · · · · · · · · · · · · · ·		<u> </u>	. (AUSTRALIA) <u> </u>									
i	· · GEOLO	GICAL	LOG				Mine Code		Ms Code		Page	4.				
ne/Pros	pect:			N	ame: LEILA	NO. 1	•	-	core							
vel:	•	Nort	hing: 1	400S	Easting:	HIGHWAY I	INE	Collar F	.L. ground/	pipe:						
earing M	I/T/G:		 	Incline:		Length:		Started:	<u> </u>	Fi	nished:					
ole/Core	size:	Н	Q:	NQ:	BQ	Interva	als assayed:	·								
Inte	rval	· · · · · · · · · · · · · · · · · · ·	Recov.y	Down Hole S	Survey - Me	thod:	date:	ı l	y:	Logged	by:	-				
rom	to	length	M/kg	 	·	DESCR:	IPTION			<u> </u>						
37.60	41.12	3.52		Medium and 1	ight grey t	hin wavey b	edded fine a	nd coarse	siltstone.	Minor f	ine					
				and coarse s	andstone an	d contorted	medium dark	grey and	grey ? tuffa	aceous s	iltstone	: .				
·				Minor crysta					hy dark yel	low weat	nering/					
				dendrites an	d minor Fe-	oxide surfa	ce coatings.			•						
41.12	45.90	4.78			eyish green and light grey 'muddy' siltstone and laminated thin bedded medium ey shaley dolomite and tuffaceous siltstone. Minor dolomitic shale. Light gre											
				dark grey sh	aley dolomi	te and tuff	aceous silts	tone. Mir	or dolomitic	c shale.	Light	grey				
				dolomite ban												
				shale flakes					staining and	d fractu	re					
				coatings fre	quent espec	ially with	increasing d	epth.		·						
45.90	46.88	.98		Medium light	grey or sl	ightly weat	hered yellow	mottled s	iltstone. I	Minor me	lium					
				coarse grain	ed sandy ba	nds to 50mm		- .								
	·		·					.B.A. 72								
46.88	47.70	. 82		Pale Yellowi	sh grey sil	tstone. Ra	re rounded g	rey cherty	concretion:	s. Abun	dant Fe-	-oxid				
				stained crys												
47.70	53.00	5.30		Light grey a	nd medium g	rey poorly	bedded silts	tone. Bed	ls up to 0.30	Om appar	ently					
				structureles												
			.·	bedded fine	and coarse	siltstone a	nd interbedd	led very li	ght pinkish	grey do	lolutite	>				
				towards the	base. Min	or laminate	d medium dar	k-grey sha	ley siltsto	ne and d	olomitic	3 .				
				shale. Rare	ly well def	ined thin c	oarse graine	d sandstor	e bands. D	isrupted	bedding	.				
				and brecciat	ion evident	•	······································			·						
53.00	53.50	3.50		Thin bedded	interlamina	ted medium	dark grey do	lomitic sh	ale and ligh	nt grey	siltstor	ıe				
				and dololuti	te Rare s	tylolitos	600mm dolar	renite and	thin shale i	nharks 3						

i	GEOL	OGICAL	LOG				· M	line Lode			Ms · Code		Page 5.
ine/Pro	spect:			N	ame: LEII	A NO. 1	\ -	•			core		
.evel:		Nort	hing: 1	400s	Easting: H	TCHWAY I	TNE	·	Collar	R.L.	ground/	pipe:	
Bearing	M/T/G:	**************************************		Incline:	•	Length:	1110		Started:				nished:
lole/Cor	e size:	. Н	Q:	NQ:	BQ	Inte	rvals	assayed	L				
Int	erval		Recov.y	Down Hole S	urvey - Met			date:		by:		Logged	har
irom ·	to	length	M/kg				CRIPI	<u></u>	•	<i>2 y</i> .		nogged	by:
				base. Mino	r pyrite ble						· · · · · · · · · · · · · · · · · · ·		
53.50	54.85	1.35											
			<u> </u>	Light grey	stone or wor	rey pred	omina	ntly thin	- bedded	silts	stone.		
				Coarse silts	se sandstone	hande +	500	one inter	eds and d	occas	ional		
				silica and	calcite bleb	s and la	vers	nun. MINO	yellowis	sn wn:	ı te		
54.85	55.50	.65		Medium grey					thin-hedd	lad.			
	•			dololutite v	vith fractur	ed bands	of t	hin bedded	medium d	lark o	rev		
				dolomitic sh	nale/shaley	dolomite	Ab	undant 'pt	ygmatic'	vein	3201	-,	
				structures									
55.50	60.75	5.25		Predominate.	y medium li	ght grey	silt	stone or s	ilty dolo	lutit	te with a	bundant	
				grey coloure	d hairline	cracks.	Thin	interbedo	led and la	mina	ted light	grey do	olomite and
				medium dark	grey shaley	dolomit). L	arge stylo	litic fra	cture	es. 'Pty	qmatic'	Vein
				or mudcrack	structures.	Toward:	the	base cher	ty dolomi	te oi	ften with	brownis	sh
				incipient no	dules or sa	ndy cher	ban	ds. Numer	ous sands	tone	/dolareni	te bands	or
				clusters. N	linor flat l	aminated	stro	matolitic	cherty do	lomit			· · · · · · · · · · · · · · · · · · ·
60.75	61.15	.40		Fine to medi	um coarse s	andstone	Di:	scontinuou	s or disc	oidal	shaped	lìght gr	cey
- (1.35	- 61 05			dololutite i	nterbeds or	lenses.			<u></u>				
61.15	61.95	.80		Light grey s	iltstone in	terbedde	and	thinly in	ter-lamin	ated	with med	ium grey	r/dark grey
	·											•	
													
	[]	il		•	······································							·	

	GEOLO	GICAL	LOG				Mine Code		Ms Code		Page	6.
line/Pros	spect:				lame: LEIL	A NO. 1			core			
evel:		Nort	hing:	1400S	Easting:	HIGHWAY LI	NE	Collar 1	R.L. ground/p	ipe:		
learing h	M/T/G:			Incline:	•	Length:		Started:		Fin	ished:	
	e size:	Н	Q:	NQ:	BQ	Interva	ls assayed	:				
	erval		Recov.y	Down Hole	Survey - Me	thod:	date:		by:	Logged	by:	
rom	to	length	M/kg.			DESCRI	PTION	<u> </u>				
				shaley dolor	mite. Minor	dark grey	shale, shal	ey and sar	ndy chert. Pro	bable al	gal	
			•	laminae pre		ic carbonat						
				<u>+</u>	· · · · · · · · · · · · · · · · · · ·			A. 72°				
61.95	63.12	1.17		Very light	grey and med	lium light g	rey thin po	orly bedde	ed siltstone a	nd chert	y dolom	ite.
				Thin brecci	ated and dis	rupted band	s. Styloli	tes.				
63.12	63.74	.62		Medium grey	silty dolon	nite and med	ium dark gr	ey shaley	dolomite or d	lark grey	·	
				stromatolit	characte	ristic	·					
					vein or mud							
63.74	64.42	.68		D					olomite, silty			
				\					Minor intraf		al	
					_	_	_		in dark, grey			
	٠			[<u></u>			lour' concr	etions. 1	Minor pitch.	Rare.coa	rse	
			·	grained pyr			· 					<u>.</u>
64.42	66.05	1.63	<u> </u>	1					ed and fine gr			
	ı	· •		sandstone b	ands especia	ally promine	nt over 0.5	Om. Mino	r dololutite a	and Fe-ox	ride	
		·		fracture co								
66.05	67.62	1.57		II	_	<u></u>			edium dark to	<u> </u>		
				(i –	-				components in			is
				the base wi	th character	ristic 'ptyg	·		line carbonate	e veining].	•
							C.B.	A. 72-75°				
	1		1								· · · · · · · · · · · · · · · · · · ·	

!	GEOLO	GICAL	LOG			М	ine Cc.e		Ms Code		Page	7.			
line/Pros	pect:	,			Name: LEI	LA NO. 1			core						
evel:	· .	Nort	hing:	1400S	Easting:	l.L. ground/	ground/pipe:								
learing M	I/T/G:			Incline:		Length:		Started:		Fin	ished:				
lole/Core		H	Q:	NQ: BQ Intervals assayed:											
Inte	rval		Recov.y	Down Hole	Down Hole Survey - Method: date: by: Logged by:										
rom	to	length	M/kg		 	DESCRIPT	ION								
67.62	71.00	3.38		Light brow	nish grev th	in bedded cher	tv dolomi	te with fr	equent mediu	m dark g	rey				
07.02	/1.00	3.30													
	•		1	laminated shaley and stromatolitic cherty dolomite. Abundant contorted laminae with distinctive siliceous and white carbonate blebs. Fe-oxide fracture coatings											
					een 67.60 - 68.60										
71.00	72.20	1.20		Light grey	dolomite.	Minor coarse	rained sa	ndstone ar	nd cherty dol	omite.					
72.20	74.95	2.72				sh grey medium									
						grey and brown						•			
	<u> </u>					74.00. Lamina									
·		·				silica blebs.									
74.95	76.45	1.50		Light and	medium grey	thinbedded and	l inter-la	minated do	olomite and s	haley do	lomite.				
					algal bands				-						
76.45	77.26	.81		Minor dark	grey algall	laminated shale	ey dolomit	e. Remair	nder medium g	rey cher	ty dolo	mite.			
		. '		Rare brown	ish ? sandy	chert concret:	lons or no	dules. M	inor dolareni	te.					
_77_26	79.23	1.97		Light grey	cherty dolo	omite. Pale g	reyish gre	en mudstor	ne and siltst	one with					
			<u> </u>	interbedde	d grey algal	l laminated bar	nds.	- ''							
79.23	79.90	.67				sandy stromato					· · · · · · · · · · · · · · · · · · ·				
79.90	81.30	1,40				nkish grey lam						en.			
				mudstone.	Distinctive	e coarse grain	ed sandsto			80.40	· .				
	<u> </u>		ļ		·····		· · · · · · · · · · · · · · · · · · ·	C.B.A. 7							
81.30	82.35	1.05				ated light gre					k grey				
	·			shaley che	rty dolomite	e and dolomiti	c shale.	Minor lam	inated stroma	atolitic		·····			
				(? conophy	ton) chert.	Conspicuous	'ptygmati	c' dolomite	e veining.						

•	GEOLO	GICAL	LOG				Mine Code		Ms Code		Page 8			
	 			N	lame:	LEILA NO.	1		core					
ine/Pros	pect:	Nort	hing:	1400S	Easting:	HIGHWAY LI	NE	Collar R	.L. ground/p	ipe:				
evel:		NOIL	111119 •		Incline: Length: Started:							Finished:		
earing M						<u> </u>	ls assayed:							
ole/Core	size:	Н	Q:	NQ:	BQ					Logged	bu			
Inte	rval		Recov.y	Down Hole S	Survey - Me		date:		у:	roddeg	ny:			
rom	to	length	M/kg			DESCRI								
82.35	8567	3.32		Very light	yellowish,	pinkish and	greenish g	rey thin b	edded dololu	tite, 'n	nuddy' sil	tsto		
					Very light yellowish, pinkish and greenish grey thin bedded dololutite, 'muddy' siltstone and cherty dolomite and interbedded medium grey siltstone. Sandstone clumps and bands common throughout and up to .30m thick.									
				bands comm	on througho	ut and up to	.30m thick	3		laminat	ed often			
85.67	86.50	.83	•	Transition	Transitional from above to predominately medium dark grey and grey laminated often contorted stromatolitic cherty dolomite. Intermittent light greenish grey siltstone									
					stromatolit	ic cherty do	olomite. In	termirren	. IIght green	1311 910				
				bands.			th occasion	al contori	ed algallami	nations	and			
86.50	89,55	3.05			Light grey dolomitic siltstone with occasional contorted algallaminations and									
				interlaminated yellowish siliceous bands. Rare incipient nodular cherty dolomite.										
					Thin bedded shaley mudstone and siltstone towards the base. Frequent coarse									
				grained sandy dolomite bands.										
89.55	90.96	1.41		Medium dark grey dolomitic shale and dark brownish grey sandy or silty laminated stromatolitic chert. Disrupted light grey dolomite bands common. Minor colitic										
				11		Disrupted .	light grey	dolomite b	ands Common.	FILITOI	0011010			
			·	carbonate	bands.			tia ciltet	one Minor	coarse d	rained	<u> </u>		
90.96	91.94	.98		Light gre	y/medium gre	y boorty pe	adea dolomi	a delement	one. Minor	lent S	tvlolites			
	!			sandy dol	omite, intra	aformational	breccia an	Modium da	te bands evic	dark gre	v			
91.94	93.50	1.56	 	Medium gr	ey cherty do	olomite and	slitstone.	meulum ua	rk grey and o ght grey dol	omite.	Disrupted			
		ļ <u> </u>		weakly py	ritic dolom	lic snale a	mont Mino	r reconnie	able algalla	mination	s.			
	'		<u> </u>	bedding a	na minor si.	inview brown	n/green si	1tstone an	d cherty dol	omite.	Conspicuo	us		
93.50	100.28	6.73		Light gre	y and paie	and grev st	romatolitic	cherty do	lomite betwe	en 98.21	- 98.48.			
				Sandetone	(medium co	arse) slight	ly more fre	quent towa	rds the base	and cor	tinuous			
				4					ling CP	A, 80 °				
ŀ	1	П	₹1	u hetween 9	9.75 = 99.7	5. Stvlalit	in tracture	sa and Dedt	(1114. C.D.	n, ou				

i i	· · GEOL	OGICAL	LOG		•		Mine Code		Ms Code		Page 9		
line/Pros	pect:			N	ame:	LEILA NO. 1			core				
evel:		Nort	hing:]	L400S	Easting:	HIGHWAY	LINE	Collar R.	L. ground/p	pipe:			
earing M	1/T/G:			Incline:		Length:		Started:	- 	Fin	ished:		
lole/Core	size:	H	Q:	NQ:	BQ	Interva	ls assayed	:	 				
. Inte	rval		Recov.y	Down Hole S	Down Hole Survey - Method: date: by: Logged by:								
rom	to	length	M/kg.		· · · · · · · · · · · · · · · · · · ·	DESCRI	PTION	·		1			
100.28	100.85	.60		Interbedde	đ light gre	ey dolomite a	and medium o	rey and dar	k grey shal	ev dolom	ite and		
				dolomitic sl		ding commonly							
·				veining ev		nor dolarenit							
100.85	105.10	4.35		Predominan	tly thin po	oorly bedded	and interla	minated ver	y light gre	y siltst	one		
				and medium	_grey or l:	ight greenish	n grey mudst	one or shal	ey dolomite	. Occas	ional		
				sandy 'mud	dy' siltst	one beds to	400mm thick.		,				
105.10	106.75	1.65		Light grey	and pale	pinkish brown	n cherty dol	lomite. Int	ermittent t	hin inte	rbedded		
				medium gre	y and dark	grey siltsto	one and shal	ley dolomite	. Minor fi	ne grain	ed ·		
				sandstone 1	bands to 51	mm. Probable	tuff betwe	en 105.87 -	105.93.				
106.75	109.00	3.75		Light grey	and light	greenish gre	ey thin poor	cly bedded d	olomite and	shaley	mudstone.		
				frequent s	andy bands	. Stromatoli	itic chert b	etween 107.	63 - 107.83				
109.00	118.08	9.08		Light grey	/medium gr	ey thin bedde	ed ?cherty o	dolomite and	siltstone.	Thin 1	aminated		
[]		· ·		grey and d	ark grey s	haley dolomit	te bands - s	suspected al	gal laminat	ions, be	tween		
				114.00 - 1	16.00. St	ylolitic bedo	ding common.	. Thick gre	y sandy dol	omite ba	nds		
	:			and minor	grey green	mudstone in							
						· · · · · · · · · · · · · · · · · · ·	C.B.2	A. 72 - 75 ⁰					
118.08	118.46	.38	·			dark grey do							
				Several pa	le greenis	h mudstone ba	ands to 600r	nm thick. I	nterlaminat	ed strea	ky		
						dy chert and	dolomite.				•		
118.46	119.62	1.16		c.f. 109.	00 - 118	.08							
119.62	121.25	1.63		Coarse tex	tured brow	nish grey ? o	cherty dolor	mite with al	gal laminat	ions. D	ark		
				grey often	cherty sh	ale as thin	wavey disru	pted laminae	and bands	- more c	ommon		

Þ t	GEOL	OGICAL	LOG			•	Mine Coue			Ms Code		Page	10.	
line/Pro	spect:			и	ame: LEI	LA NO. 1				core		<u> </u>		
evel:		Nort	hing: 1	400s	Easting:	HIGHWAY L	INE	Collar	R.L.	ground/p	pipe:	.,		
earing	M/T/G:		 	Incline: Length: Star					 		F	inished:		
lole/Cor	e size:	Н	Q:	NQ:	BQ	Interva	ls assayed	\ <u>:</u>						
Int	erval		Recov.y	Down Hole Survey - Method: date: by: Logged by:										
rom ·	to	length	M/kg			DESCRI	PTION		l <u>-</u>		1		· · · · · · · · · · · · · · · · · · ·	
				with increa	sing denth	to predomin	antly dolom	itic shale	<u> </u>	<u></u>				
121.25	122.55	1.30		with increasing depth to predominantly dolomitic shale. Light greenish or greyish green 'muddy' dolomite with sandy components. Thin										
					rbedded light grey cherty dolomite - thin shaley laminations. Minor									
				mudstone.										
							C.B.A	. variable	e 70 ⁰	- 80°				
122.55	122.73	.18		Light yello	wish grey t	hin bedded	cherty dolo	mite. Di	srupt	ed/brecci	ated c	oarse	·	
				grained san	grained sandy dolomite. Minor dark grey shale, crystalline dolomite veining and									
				matrix.										
122.73	123.55	.82		Medium ligh						-				
		·		cherty conc		30mm across	. Minor in	traformat	ional	breccia/	greeni	sh grey		
				'muddy' dol										
123.55	124.13	.58		Predominant	ly medium d	lark grey la	minated sha	ley strom	atoli	tic chert	and			
	<u> </u>	· ·		interlamina	ted light g	rey dolomit	e. Abundar	t small s	ilica	blebs ar	d 'pty	gmatic'		
				replacement					·					
124.13	125.02	. 89		Light grey								ds slight	.Iy	
				darker in c	olour exhib	it minor br	ecciation a	ind wavey	hairf	ine lamir	ae.		-	
125.02	128,49	3.47			Similar to above but bedding developing as thinner units or disrupted shaley laminae.									
				poorly deve			-						ι	
				Pale green	mudstone/?	tuff interb	edded with	siltstone	betw	een 128.	0 - 12	8.13.		
128.49	130.34	1.85		Medium dark	grey and m	edium grey	flat lamina	ted chert	y str	omatoliti	c dolc	mite and	···	
				shale - Bro	wnish concr	etionary ch	erty masses	. 'Ptygm	atic'	veined d	lark gr	ey shale		
	البا	ļ		over 150mm	at base.				· · · · · · · · · · · · · · · · · · ·					

i	GEOL	OGICAL	LOG				Mine Code		Ms Code	P	age	11.	
dine/Pro	spect:	·		· N	ame:	LEILA NO. 1			core				
Level:		Nort	hing: 14	100S	Easting:	HIGHWAY L	INE	Collar R.I	. ground/p:	ipe:			
Bearing	M/T/G:			Incline: Length: Started:						Finis	heđ:		
Hole/Cor	e size:	Н	Q:	NQ:	BQ	Interva	ls assayed			. ·			
Int	erval	<u> </u>	Recov.y	Down Hole S	urvey - Me	thod:	date:	by:	<u> </u>	Logged by	:		
from	to	length	M/kg			DESCRI				, , , ,			
130.34	132.21	1.87		Light to me	dium grev c	r greenish o	rev thin be	dded mudston	e and imudd	ul silteto	no.		
								t. Bedding					
				dolarenite l									
						C	.B.A. 76				 -		
132.21	135.52	3.31		Light and medium grey thin bedded cherty dolomite - Rare rounded concretions. Minor flat laminated stromatolitic dolomite, dominant towards the base. Minor 'muddy'									
				flat lamina	ted stromat	olitic dolom	nite, domina	nt towards t	he base. M	inor mudd	Ϋ́		
				dolomite wit									
135.52	135.89	.37					c shaley do	lomite and i	nterbedded 1	medium gre	У		
125 00	120 10			dolomite.									
135.89	139.10	3.21						placed throu					
	<u> </u>							ish grey mud					
	·		·		se sandston	e bands (up	to 100mm th	ick) and min	or pale gre	en mudston	ie/? t	uff	
139.10	140.60	1.50	·	layers.			···						
137.10	140.00	1.50						ty dolomite.				į.	
				concretions			olomite irac	ture fill.	Rare dark	grey chert	·Y		
140.60	143.30	2.70					h grey Imid	dy' dolomiti	a ailtatana	and mudat			
-								nds. Beddin					
								and disconti			·	· 	
143.30	144.18	.88					_	ge rounded o		shaped me	dium		
								imension par			ur uii		
				Area cherca	dolomite n	asses urcell	with iong u	THE DETON PAI	arrer to be	aariig.			

i	GEOLO	GICAL	LOG	· ·	•		Mine Lode		Ms Code		Page	12		
Mine/Pro	spect:				Name: LEII	A NO. 1			core					
Level:		Nort	hing:	14008	Collar R.L.	L. ground/pipe:								
Bearing	M/T/G:		 	Incline:	ne: Length: Started:					Finished:				
Hole/Cor	e size:	н	Q:	NQ:	BQ	Interva	ls assayed	•						
	erval		Recov.y	Down Hole	Survey - Me	thod:	date:	by:		Logged	by:			
from	to	length	M/kg.	DESCRIPTION										
144.18	146.90	2.72		Greenish gre	eenish grey to medium grey massive to thin bedded 'muddy' siltstone and									
				irregularly	regularly interbedded mudstone. Fine and minor medium coarse grained sandy lenses									
****	· ·		1					ous rounded ch						
					erty shale i									
146.90	149.10	2.20		Light grey t	hin bedded d	olomite and	disrupted n	nedium grey in	terbedded	fine san	дy			
				dolomite. I	lomite. Possible stromatolitic laminae especially near 149.00. White crystalline									
				dolomite vei	Lomite veining.									
					C.B.A. 76°- 80°									
149.10	150.29	1.19		Dark grey stromatolitic cherty dolomite. Basal 0.25m dark grey thin bedded										
				shale and in	shale and interbedded medium grey dolomite. "Ptygmatic' dolomite vein structures									
	[·			evident.										
150.29	150.63	. 34						um grey 'muddy						
				beds exhibit	t fine incipi	ent fracture	s, and qua	rtz sand compo	onents. Mi	nor cher	ty			
	,			shale bands.		·								
150.63	150.82	.19	•.	Dark grey, 1	brown and yel	lowish strom	atolitic cl	nert Laminati	lons contor	ted and				
					all secondary			· .						
150.82	151.72	.90						me evidence of	f large amp	litude				
				11	• stromatolit							•		
151.72	154.87	3.15		11	_			e and mudstone						
				fine graine	d sandy dolon	ite bands.	Minor brow	nish grey cher	rty dolomit	e with t	indulos	e .		
				bedding or	cherty concre	tions, and	lark grey s	haley laminati	ions.					

į	· · GEOLO	GICAL	LOG			·	Mine Lode		Ms	Code		Page	13.
Mine/Pro	spect:			· · · N	ame: LEI	LA NO. 1			co	re			
Level:	· .	Nort	hing:	1400S	Easting:	HIGHWAY LI	NE	Collar	R.L. gr	ound/pi	pe:		
Bearing	M/T/G:			Incline: Length: St							Fin	ished:	
Hole/Cor	e size:	. Н	Q:	NQ:	NQ: BQ Intervals assayed:								
Int	erval		Recov.y	Down Hole S	Down Hole Survey - Method: date: by: Logged by:								
from	to	length	M/kg			DESCR	IPTION						
154.87	155.85	.98		Overlying 100	mm brecci	ated brownish	cherty dol	omite. Cl	asts flo	oating i	n		
134.07	133.03			crystalline d								nwo	
	 		1				al laminations						
				present towar									<u>, </u>
155.85	156.94	1.09		Dark grey and								ions.	
				Laminations s	lightly c	rinckled or	raized. c.i	. 149.10 -	150.29.	. Dark	grey		
				shale over 20								·	
156.94	158.85	1.91		Greenish grey	interbed	ded 'muddy' :	siltstone ar	nd mudstone	. Sandy	y lenses	or th	in	
				wavey bands.									
158.85	159.10	.25		Mottled stron	natolitic	chert and da	rk grey stor	natolitic s	haley do	olomite.			
	-			c.f. 150.63 -									
159.10	161.26	2,16	·	Medium grey a	ınd light	brownish gre	y cherty do:	lomite. In	regular	and sma	ll rou	nded	
			٠	'sandy' cher	concreti	ons. Interm	ittent thin	dark grey	shale ba	ands.			·····
161.26	162.85	.59		Medium to th			um light gre	eenish grey	mudsto	ne and '	muddy	siltsto	one.
	:			Minor sandy	-						3.1		
162.85	164.50	1.65	<u> </u>	Thin bedded						*			
				grey cherty				· · · · · · · · · · · · · · · · · · ·					
164.50	165.86	1.36		Thin bedded									· ———
				and rare mud	cracks fra	acturing. Th	in < 10mm	to 100mm	tine and	medium	graine	α	
				sandstone ba	nds.						.,,		
						C.B	.A. 78 ⁰						
	11										 -		

7	GEOLO	GICAL	LOG			· M	ine code		Ms Code		Page 14.
line/Pros	spect:				lame: LEILA	NO. 1	• •	•	core		
Level:		Nort	hing:	1400s	Easting:	HIGHWAY LINE		Collar R.L	. ground/p	ipe:	
Bearing B	1/T/G:			Incline:	•	Length:		Started:		Fin:	ished:
iole/Core	e size:	н	Q:	NQ:	BQ	Intervals	assayed:				
Inte	erval		Recov.y	Down Hole S	Survey - Me	thod:	date:	by:		Logged 1	by:
from .	to	length	M/kg.			DESCRIPT	ION				
165.86	167.00	1.14		Medium light	grey siltst	one and browni	sh grey cl	herty dolomi	te. Rare da	ark grey	
				shaley bands	. Minor ool	itic carbonate	grains a	t base.			
167.00	168.24	1.24		Very pale cr	eam and ligh	t grey poorly	bedded (f	ine sinuous d	dark grey l	aminae e	vident)
		•		and occasion	ally breccia	ted dolomite a	nd fine s	andy dolomit	e. Minor m	udstone.	
168.24	169.17	.93		Dark grey and	d medium gre	y contorted sh	aley stro	matolitic dol	lomite. Abu	ndant di	scoidal and
				elongate dol	omite and si	lica blebs; c	ften in '	ptygmatic' o	utline.		
169.17	172.04	2.87		Medium grey	and light cr	eamy grey pred	lominantly	thin bedded	, rarely la	minated	
				siltstone an	d fine grain	ed sandstone.	Minor mu	dstone. Sty	lolites.		
172.04	173.90	1.86		Medium dark	grey and gre	y contorted la	uminated s	tromatolitic	shaley dol	omite wi	th large
				dark brown g	rey stromato	litic chert co	ncretions	. Abundant	secondary s	ilica bl	ebs.
	·			c.f. 150.63							
173.90	175.28	1.88	·	Medium bedde	d, medium gr	ey cherty dolo	mite with	frequent ro	unded and i	rregular	shaped
				darker grey	chert concre	tions.					
175.28	175.90	.62		Light grey a	nd light gre	enish grey wav	ey thin b	edded mudsto	ne and 'mud	dy' dolo	mite.
			•	Quartz sand	throughout m	ore massive se	ctions.				
175.90	176.66	.76		Light browni	sh to medium	dark grey lam	ninated st	romatolitic	dolomite an	d chert.	
			-	c.f. 150.63	- 150.82. D	ark grey shale	y compone	nts over bas	al 500mm.		
176.66	178.95	2.29		Brownish gre	y slightly c	herty dolomite	and thin	wavey bedde	d light gre	enish gr	ey
				and grey mud	stone and 'm	uddy' dolomite	. Coarse	grained san	dy dolomite	at base	-
				and intermit	tent thin <	C lomm thick s	andstone	bands throug	nout	·	
				<u> </u>				C.B.A.767 -	78 ⁰		
											

1	GEOLO	GICAL	LOG	•			Mi	ine code			Ms Code		Page 1
line/Pros	pect:			Na	ame: LEII	A NO.	1	•			core		
evel:		Nort	hing: 14	400s	Easting:	HIGH	WAÝ LINE	1	Collar	R.L.	ground/p	ipe:	
searing M,	/T/G:			Incline:		Lengt	h:		Started:			Fir	nished:
ole/Core	size:	. Н	Q:	NQ:	BQ	In	tervals	assayed	:				
Inte	rval	(*	Recov.y	Down Hole S	urvey - Me	thod:		date:		by:		Logged	by:
rom	to	length	M/kg.		 	D	ESCRIPT:	ION		<u> </u>	<u></u>		
178.95	180.65	1.70		Pinkish or b	rownish gre	y thin	bedded	to lamina	ted stro	natol	itic chert	and	
				stromatoliti	_								
180.65	182.11	1.46		Medium light	grey and b	prownis	h grey c	herty do	omite. I	Round	ed chert c	oncreti	ons.
				· Minor thin s	haley bands	s, thin	poorly	bedded s	lltstone,	sand	stone (coa	rse gra	ined
j				poorly sorte	d over 120r	mm) and	l flake b	reccia.					
182.11	183.44	1.33		Coarse sands	tone 100mm	overly	ying medi	um light	grey and	medi	um grey th	in bedd	ed
				siltstone.									
183.44	183.76	. 32		Dark grey po	ssibly alga	al lami	nated sh	aley dol	omite and	dolo	mite shale	. Mino	r
		· · · · · · · · · · · · · · · · · · ·		dolarenite.								• •	
183.76	186.38	2.62		Medium grey									
		·		and breccia.	Rare dar	k grey	shale ba	nds to 10	Omm. Wel:	1 dev	eloped sty:	lolites	•
186.38	186.95	.57		Medium grey	siltstone v	with ba	asal 300m	m sandy o	dolomite	and m	edium grai	ned	
			·	dolomite san				· · · · · · · · · · · · · · · · · · ·					
186.95	188.25	1.30		Very light g									
	.		٠.	grey very fi	ne sandsto	ne inte	erbeds.	Light ye.	llow pink	? tu	ff between	187.42	- 187.54
188.25	188.45	.20		Light browni	sh grey and	d dark	grey, ch	erty dol	omite and	dolo	mitic shal	e.	
			-	Possible str	omatolités	•			· .				
188.45	190.50	2.05		Very light g		-			_				ded
				or wavey lam	inated dar	k grey	shaley b	ands inc	reasing s	light	ly in thic	kness	
				towards base	. Minor d	isrupti	ion.		······································		·		
								СВА	78 ⁰ - 7	90	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

·		OGICAL	LOG	·		·	Mi	ne Code			Ms Code		Page	: 16
ine/Pros	spect:				Name: LE	LA NO. 1					core			
evel:		Nort	hing: 1	400s	Easting:	HIGHWAY	LIN	E.	Collar	R.L.	ground/	pipe:		
earing N	4/T/G:			Incline:		Length:		1	Started:			·	inished	
ole/Core	size:	Н	Ω:	NQ:	BQ	Interv	als	assayed					T11121160	<u> </u>
Inte	erval	······································	Recov.y	Down Hole	Survey - Me			date:		by:		T		
rom	to	length	M/kg.			DESCR				Sy.		Logge	a by:	
190.50	191.70	1.20		Dark grev d	lolomitic chal									
	,			Rare brecci	ation Chara	e and crum	pred	light p	inkish gre	y do	lomite ba	nds.	· · · · · · · · · · · · · · · · · · ·	
191.70	192.45	.75		Very light	ation. Charagrey siltston	e and into	ptyg	gmatic,	dolomite v	rein	structure	s.	···	
		**************************************		Conspicuous	green mudsto	ne bands be	etwee	en 191 9	um grey 18	mina	ted silts	tone.		
192.45	193.17	.72		Predominant	ly thin inter	hedded ligh	h + ~	151.5	J - 192,00) . M	inor sand	stone.	·	
				dolomite.	ly thin inter Basal 300mm,	interbedde	d day	rey cher	chale and	e an	d laminate	ed str	omatolit	ic
	,			between 10-	20mm thick.			in grey	share and	0011	tic dolar	enite u	inite.	
193.17	194.75	1.58		Light to me	dium, slightl	y greenish	grey	y muddy	' siltston	e and	d thin in	terbede	300	
				wavey mudst	one. Coarse	sandy compo	onent	ts as th	in 30mm th	ick l	pands or o	Tuartz		
				grains scat	tered through	out thicker	r sil	ltstone l	heds			100102		
194.75	196.98	2.23		Medium ligh	t grey cherty	dolomitic	silt	tstone w	ith conspi	CHORS	sly rounde	ad bros	m š ob	
				grey chert	concretions u	p to 40 mm a	acros	s and e	longate wi	th be	edding.	ed DIO	711511	
96.98	199.50	2.68		Medium to t	hin irregular	ly bedded o	reer	nish grey	//light gr	ev 'ı	muddy' si	ltstone		
				and mudston	e. Bedding o	ften as fir	ne in	terweav	ing lamina	e. I	dinor thir	l dolar	onita	
	· · · · · · · · · · · · · · · · · · ·			bands and n	umerous mudst	one filled	frac	ctures.	Sandy com	poner	it especia	ally in	L. CAIT CE.	
20 50		·		non laminat	ed bands to 3	00mm.								
99.50	199.75	.25		Medium dark	grey and med	ium grey sh	aley	dolomit	te and che	rty s	shale. At	undant		
	 -			conspicuous	small crumble	ed or disco	oidal	shaped	light gre	v med	lium cryst	allino	dolomi	e ·
				masses ofter	n elongate al	ong bedding	and	l 'ptygma	tic' stru	cture	s normal	to bed	ding.	
00 35	303-32-			(Indistinct	stromatoliti	c laminae).								
L99.75	201.36	1.61		Medium and	thin bedded p	ale greenis	h mu	dstone a	nd siltst	one.	Minor sh	aley d	olomite	
11	- 11			bands to 10	wm. Fine san	dstone lens	es o	r medium	grained	bands	to 30mm.	c.	B.A. 80	

i	GEOLO	GICAL	LOG	· · · · · · · · · · · · · · · · · · ·		М	ine Lode		Ms	Code	Page	17.
ine/Pros	spect:			N	lame: LE	LA NO. 1	•		cor	:e		
Level:		Nort	hing:	1400S	Easting:	HIGHWAY LINE		Collar	R.L. gro	ound/pipe:		
Bearing N	M/T/G:			Incline:	1	Length:		Started:		F	inished	:
	e size:	. н	Q:	NQ:	BQ	Intervals	assayed	·			•	
·	erval		Recov.y	Down Hole S	Survey - Me	thod:	date:		by:	Logge	d by:	
from	to	length	M/kg.			DESCRIPT	ION	<u>.</u>				
201.36	202.29	.93		Contorted med	lium dark gr	ey 'sandy' and	l shaley s	tromatoli	tic dolo	mite. Dark		
201.30	202.23	• , , ,				and bands. Al						
	· · · · · · · · · · · · · · · · · · ·		 	recrystallize	ed veining o	r cavity fill	and 'ptyg	matic' st	ructures	•		
202.29	202.75	.46				m and thin bed				Bands to		
						disruption of						
202.75	203.31	.56				ey and light					ium	
				II 		dy' siltstone	and mudst	one inter	beds. C	haracteristi ———————————————————————————————————	c	
····	,	· · · · · · · · · · · · · · · · · · ·		light grey do	olomite bleb	s.	- -	<u></u>			- 	
203.31	203.91	.60				sh grey and 1					unae on	
				*I		equent thin f						
203.91	205.33	1.42		16		siltstone.				e. Dark gre	У	·
			·	H		colitic dolomi						
205.33	205.88	.55	•	11		e grained san						
205.88	206.55	.67		Light greeni	sh grey thir	bedded silts	tone. Dai	ck grey sh	aley lam	inae increas	singly .	
				abundant tow	ards the bas	se.						,
206.55	209.08	2.53		Continuation	of above wi	th increased	laminated	shale com	ponent t	o predominar	ntly sha	le
				or shaley do	lomite. Od	ccasional reco	gnisable a	algal lami	nations	with rare ch	nerty	
				stromatoliti	c bands. Ch	naracteristic	light gre	y 'ptygmat	ic' dolo	omite structu	ıres.	•
209.08	209.48	0.40		Pale cream,	pink and bro	own contorted	laminated	stromatol	litic che	ert.	<u> </u>	
209.48	210.53	1.05		Pale yellowi	sh grey, thi	in bedded (10-	20mm), po	orly sorte	d dolomi	tic sandstor	ne. Rar	elv
						n) non sandy f						

i	· · GEOLO	GICAL	LOG			. М.	ine code		. 1	Ms Code		Page 18
fine/Pro	spect:			. Name:	LEILA NO	0. 1	•		1	core		
Level:		Nort	hing:	Eas	ting:			Collar	R.L.	ground/p:	ipe:	
Bearing 1	M/T/G:			Incline:	Lei	ngth:		Started	:		Fin	ished:
iole/Cor	e size:	Н	Q:	NQ:	BQ	Intervals	assayed:					
Int	erval		Recov.y	Down Hole Surve	y - Method	1 :	date:	,	by:		Logged	by:
from	to	length	M/kg.			DESCRIPT	ION,					
210.53	213.13	2.6		Very distinctive	thinly in	terlaminate	d medium	grey sha	ley dol	Lomite and	l pale c	ream or
				light grey dolom	ite. Lami	nae commonl	y slightl	y crinkle	ed or 1	raised - r	ossibly	·
				stromatolitic -	style diffe	erent to pr	evious st	romatoli	tic for	cms. Fred	quent pl	astically
	<u> </u>		,	deformed and con	torted band	ds. Minor	dolarenit	e breccia	a C.B.	A. 80°.		
213.13	217.32	4.19		Dark grey lamina							dolomit	e and
				light grey silts	tone. Ligi	ht grey dol	omite ble	bs and m	inor 'p	otygmatic	'struct	ures.
				Dolomite content	increasin	g with dept	h with pr	obable t	ıffaceo	ous silts	tone bar	ds to
				100mm.								
217.32	217.75	0.43		Light coloured c	oarse grai	ned quartz	sandstone	<u> </u>	·			
217.75	218.84	1.09		Fine and medium	grained do	lomitic san	dstone.	Frequent	coarse	e grained	sandsto	one bands.
218,84	220.30	1.46		Thin bedded and	interlamin	ated light	grey dolo	mite (or	fine s	sandy dol	omite) a	and medium
	•			dark grey shaley	algal dol	omite. c.f	. 210.53	- 213.1	3 C.B.	.A. 78 ⁰ -8	20.	
220.30	221.70	1.40		Continuation of	above with	dominant s	haley com	ponent.	Mediu	m light g	rey thir	n wavey
				dolomite bands c	ommon.							
221.70	221.85	0.15		Chert flake brec	cia.							
221.85	222.58	0.73		Light brownish g	rey dolomi	te. Indist	inct and	rare fin	e wavey	y grey la	minae.	
222.58	222.77	0.19		Composite dark g	rey shale,	cherty fla	ke brecci	a and do	lareni	te, sands	tone.	
222.77	225.23	2.46		Coarse grained s	andstone.	Very rare	pale yell	owish ?m	udstone	e or clay	intrac	lasts -
				broken laminae.	Dark grey	shaley lam	ninations	common f	rom 22	4.25.		
225.23	228.43	3.20		Thin bedded fine laminations. Be	grained d	olomitic sa	indstone w	ith abun	dant_t	nin dark	grey sha	aley
				·		· · · · · · · · · · · · · · · · · · ·						

:	GEOLO	GICAL	LOG			Ŋ	line lode			Ms Code		Page 19
ine/Pros	spect:			Na	mė: LE	ILA NO. 1				core		
evel:		Nort	hing:		Easting:			Collar	R.L.	ground/p	ipe:	
earing N	1/T/G:			Incline:	I	Length:		Started:			Fir	ished:
 	e size:	. Н	Q:	NQ:	BQ	Interval	s assayed	:				
. Inte	erval		Recov.y	Down Hole Su	rvey - Meth	nod:	date:		by:		Logged	by:
rom ·	to	length	M/kg.	·		DESCRIP	TION					
228.43	229.41	0.98		Coarse to med				l pale br	ownis	h disconne	octod_la	minao
				or small irre								
229.41	230.56	1.15		Light grey fi			ndstone an	d dolomit	e. F	requent da	ark grey	shaley
				laminations c	 							
30.56	231.13	0.57		Overlying 200								
				matrix. Rema								·······
231.13	234.05	2,92		Medium light								
				Minor medium								
				with depth, u	-				c' do	lomite str	ructures	. Minor
				pale green ?t	uff/mudstone	bands. C.I	B.A. 81°.		·			
234.05	234.66	0.61		Dark grey sha	les or silty	shales. T	hin (≤ 10	mm) light	grey	or green	ish grey	mudstone
	·	·		and dolomite	interbeds or	discontinu	ous lamina	e. Basal	dola	renite.		
234.66	235.90	1.24	·	Light grey do	lomite (or f	fine grained	dolomitic	sandston	e).	Coarse q	rained s	andstone
	, ,			lenses or thi	n bands to 3	30 mm. Mino	r vague sh	aley lami	nae.	. ·		<u> </u>
235.90	241.12	5.22		Medium light	grey dolomit	ic siltston	e and thir	bedded m	edium	dark gre	y dolomi	tic shale
		 		with occasion	al thin grey	tuffaceous	siltstone	units.	Beddi	ng especia	ally dis	rupted
]				adjacent to s	mall 'ptygma	atic' struct	ures. Nor	-laminate	d sil	tstone se	ctions e	xhibit
	}			fine disconti	nuous contor	ted shale 1	aminae. H	racturing	COMI	on towards	s the ba	ise with
				conspicuous w	hite crystal	lline dolomi	te fills.	Rare sm	all w	ell rounde	ed dolor	nite
				blebs evident	between 246				ahart	1 . 11		
					DELWEEN 240	1.47 - 240.7	<u>2 similar</u>	style to	<u>cher</u> r	<u> ball str</u>	<u>uctures.</u>	<u> Trace</u>

i	GEOL	OGICAL	LOG				Mine code		Ms Code		Page	20
dine/Pros	spect:			Name	: LEII	A NO. 1			core			
Level:	-	Nort	hing:	Ea	sting:			Collar R	.L. ground/	pipe:		
Bearing 1	M/T/G:	* * * * * * * * * * * * * * * * * * * *	, <u>, , , , , , , , , , , , , , , , , , </u>	Incline:		Length:		Started:		Fir	nished:	1
Hole/Cor	e size:	н	Q:	NQ:	BQ	Interval	s assayed	:				
Int	erval		Recov.y	Down Hole Surv	rey - Me	thod:	date:	b	у:	Logged	by:	
from ·	to	length	M/kg.			DESCRIP	TION					
241.12	244.25	3.13		Thin bedded lig	ht gr ey	dolomite and	fine grain	ed dolomiti	ic sandstone	with in	terbedd	.eđ
				laminated mediu	m dark g	rey shale. E	Bedding uni	ts commonly	y to 5mm but	up to 2	Omm.	
				Some brecciatio	n and co	ntortion over	c 200mm sec	tìons. C.	B.A. 81 ⁰ -82 ⁰	•		
244.25	246.17	1.92		Similar to abov	e interv	al but thicke	er bedding	units 20-30	Omm and exhi	biting a	n overa	11
		,		dusky greenish	(?tuffac	eous) tinge.	Fracturir	g/brecciat:	ion common t	hroughou	t.	
				Slickenside sur	faces an	d white crys	talline dol	omite asso	ciated with	brecciat	ed inte	rval
246.17	251.41	5.24		Very light grey	dolomit	ic siltstone	and predom	ninant very	fine graine	d sandst	one wit	:h
	·			depth. Occasio	nal sect	ions exhibit	fine wavey	shaley la	minae. Rar	e coarse	-graine	.d
				sandy patches o	r bands.	Minor cher	ty dolomite	with prob	able stromat	olitic l	aminae.	,
251.41	252.86	1.45		Distinctive coa	rse-grai	ned white or	light grey	quartz sa	ndstone. Ra	re stylo	litic	
	,			fractures. Tow	ards the	base, sands	tone as int	ermittent	bands gradat	ional to	interv	7al
				below.								
252.86	257.33	4.47	·	Very distinctiv	ely lami	nated to this	n bedded li	ght grey f	ine grained	sandston	e or	
				dolomite. Medi	um dark	grey shaley	algal inter	claminae.	Bedding unit	s common	ly less	3
						herty stroma		lomite band	s to 500 mm.		·	
				c.g. 218.84 - 2	20.30.	C.B.A. 81°	•					
257.33	260.50	3.17		Contorted, bred	ciated 1	ight grey co	arse dolom	itic sandst	one. Freque	nt grey	wavey	
				laminations thr	oughout,	and abundan	t white cry	stalline d	olomite eith	er as ma	tříx,	
				irregular masse	s or cav	ity/fracture	fill.' Ba	ands to 200	mm thick com	prising	medium	
				grey laminated	algal do	lomite with	shaley mate	erial as ma	trix and sty	lolitic	fractur	:e
				fill. C.B.A.	76 ⁰ -78 ⁰		· · · · · · · · · · · · · · · · · · ·				<u> </u>	

i	GEOLO	GICAL	LOG				Mine Lode		Ms · Code		Page 21
Mine/Pro	spect:				Name: LEI	LA NO. 1	•		core		
Level:		Nort	hing:	·	Easting:			Collar R	.L. ground/	pipe:	
Bearing	M/T/G:			Incline:		Length:		Started:		Fir	ished:
Hole/Cor	e size:	Н	Q:	NQ:	BQ	Interva	ls assayed	l:			
	erval		Recov.y	Down Hole	Survey - Me	hod:	date:	b	у:	Logged	by:
from -	to	length	M/kg			DESCRI	PTION				
260.50	261.32	0.82		Thin poorly	bedded mediu	m dark gree	nish grey	fine grained	?feldspathi	c sandst	one and
					dark grey si				·····		
261.32	263.28	1.96		Thin bedded	medium dark	grey silty	shale and	thin wavey d	dark grey sha	ale inter	beds.
				medium light	t grey dolomi	te and rare	possible s	stromatoliti	ic bands. Fi	ine white	<u> </u>
		,		crystalline	dolomite vei	ning and fi	actures cha	aracteristic	3.		
263.28	265.50	2.22		Medium light	t grey silts	one with th	in interbe	dded laminat	ted (?stromat	tolitic)	shaley
				dolomite or	tuffaceous s	siltstone.	Conspicuou	s irregular	crystalline	masses a	and veining
265.50	268.22	2.72		Medium ligh	t grey to med	lium grey cı	ystalline (dolomite as	disrupted la	arge nodu	lar bands
				with interm	ittent dark	grey shale b	ands. Sha	le component	t distinctive	e as fine	inter-
				twining thre	eads or as mo	ore discrete	wavey ban	ds up to 20r	mm thick.	Stylolite	s.
	·	<u></u>		Minor coars	e grained py:	rite esp. or	fracture	surfaces.	·····		
268.22	268.85	0.63	·	Very light	grey massive	dolomite -	?dolomite/	tuff. Minor	r greenish ba	ands near	base.
		•	<u> </u>		e on fracture						
268.85	271.20	2.35	 		and fine sa						
				shaley silt				268.95 - 269	9.10. Pyrite	e as mino	or matrix
					rimming clas				•		
271.20	272.10	0.90		Medium dark	grey shaley	siltstone	(occasional	ly interbedo	ded tuffaceou	us siltst	one with
				fine spindle	e lamination	s) Sporad:	c fine dar	k grey shale	e flakes evi	dent.	
272.10	274.05	1.95		Medium grey	dolomitic s	iltstone wi	h abundant	dark grey s	shale flakes	and rare	<u> </u>
				larger disc	onnected sha	le laminae.	Minor, lig	ht grey sil	tstone bands.	•	
**************************************	,										
							,				

t	·· GEOLO	GICAL	LOG	•	•		Mine Code		Ms Code	··	Page 22
ine/Pros	pect:			. N	lame: LEII	A NO. 1	•		core		
evel:		Nort	hing:		Easting:			Collar R.L	. ground/p	ipe:	
earing M	1/T/G:			Incline:		Length:		Started:		Fin	ished:
ole/Core	size:	Н	Q:	NQ:	BQ	Interval	s assayed	:			
. Inte	rval		Recov.y	Down Hole S	Survey - Met	hod:	date:	by:		Logged	by:
rom ·	to	length	M/kg.		:	DESCRI	PTION	····			
274.05	277.00	. 2. 95		Medium dark a	and dark grey	z shale . M	inor thin o	arbonaceous s	shale bands	Light	and
·				medium grey d	dolomitic si	ltstone and	dololutite	as thin ofter	n poorly be	dded st	reaky or
				laminated uni	its and rare	rbands to 10	Omm thick e	xhibiting mi	ld slumping	and occ	asional
				shale flakes.	. Minor frac	cturing and	associated	dolomite veir	ning/pyrite	•	
277.00	279.05	2.05		Medium grey a	and medium da	ark grey thi	n poorly in	terbedded sha	ale, dolomi	te and t	uffaceous
				siltstone. N	Minor slumpi:	ng and rare	disconnecte	ed shale lamin	nae.		
				Between 277.0	00 - 277.30,	278.55 - 2	78.67, cons	spicuous coars	se sandy do	larenite	with
				light grey si	iliceous mat:	rix. These	bands ofte	en interrupted	d by thin d	ark gr a y	shale
				layers. Mind	or pyritizat:	ion of dolar	enite parti	cles.		•	
279.05	282.03	2.98		Thin bedded 1	light pinkish	n grey đolom	ite. Inte	bedded medium	m grey lami	nated sh	aley
	·			siltstone and	tuffaceous	siltstone.	This unit	has a vague	slightly m	ottled a	ppearance
	•			resembling do	olomite/tuff	. Rare sha	le flakes.	Conspicuous	siliceous	dolareni	te as
		·		intermittent	hands up to	150 mm thic	k. Pyrite	e associated v	with fractu	res and	evident
				between 279.0	279.50.	CBA: 76 ^O -80	0.				•
282.03	285.60	3.57	•	Similar to ab	oove, but pl	astically co	ntorted tu	rbidite slumpe	ed bedding	througho	out.
285.60	297.20	11.60		Predominantly	y medium to	thin bedded,	light med:	ium grey and m	medium grey	dolomit	ic
	•			siltstone. E	Bands ţo 100	mm of medium	grey tuffa	aceous siltste	one exhibit	ing coar	se spindle
								ight grey dole			
				with disrupte	ed and conto	rted bedding	(especial	ly between 29	6.00-297.20). Rare	shale
				flakes and fi	ragments', M	inor dolaren	ite/breccia	CBA 82 ^O -83 ^o	· .		
			 						 		

l	GEOLO	GICAL	LOG						Mine Code			Ms Code	-	Page 23
line/Pro	spect:				Name:	LEI	LA NO.	1		•		core		
evel:		Nort	hing:	•	East	ing:				Collar	R.L.	ground/p	ipe:	
Bearing l	M/T/G:		 	Incline:	,		Lengti	h:		Started:			F	inished:
lole/Cor	e size:	· H	Q:	NQ:		BQ	In	terval	s assayed	:		-		
Int	erval .		Recov.y	Down Hole	Survey	- Met	hod:		date:		by:		Logge	d by:
rom ·	to	length	M/kg.				מ	ESCRIP	TION		·			
297.20	298.83	1.63		Very pale o	ream ar	nd ligh	t grey	silts	tone. Lam	inations	indic	ate mild	slumpi	ng and
				plastic de	formatio	on. Ba	sal 20	0mm wi	th pale qr	een mudst	one/t	uff and p	inkish	cream
	·	 		dolomite/ti	iff band	ls.						,		
298.83	305.60	6.77		Medium grey	thin t	o medi	um bed	lded do	lomitic an	d tufface	ous s	iltstone.	Thi	n medium
				dark grey d	dolomiti	c shal	e inte	rbeds.	Numerous	thin str	eaky	carbonate	bands	and light
			<u> </u>	bluish and	cream c	dolomit	e/tuff	bands	to 150 mm	thick.	CBA	78 ⁰ -80 ⁰ .		
305.60	308.22	2.62		Medium grey	tuffac	ceous s	iltsto	ne (fi	ne spindle	laminati	ons).	Beddin	g disr	upted
				throughout	with da	ark gre	ey shal	e inte	rbeds, tur	bidite fl	akes	and fragm	ents.	Light blui
				green sligh	itly che	erty do	olomite	/tuff	bands as a	bove inte	rval.		•	
308.22	313.50	5.28		Medium grey	, dolomi	itic ar	nd tuff	aceous	siltstone	rarely a	s thi	n graded	units.	Frequent
				dark grey s	shale in	nterbed	ls. Co	nspicu	ous light	grey slig	htly	cherty wa	vey ca	rbonate and
	•			?dolomite/										
· -				Trade pyri	e CBA	76-80 ^C	· .							
313.50	315.03	1.53		Predominant	tly ligh	it to n	nedium	grey d	olarenite.	Wavey d	ark c	rey shale	and m	edium grey
				siltstone l	ands of	breco	cia cla	ists.						
315.03	334.80	19.77		Medium ligh	ıt grey	dolomi	tic si	ltston	e with fir	er graine	d sin	nilarly co	loured	pale
			-	bluish grey	y mudsto	one ro	ck. N	Medium	dark grey	shale ban	ds wi	th poorly	defin	ed wavey
				bedding su	rfaces :	frequer	it thro	oughout						
				Minor fine	ly bedde	ed pyri	te ass	ociate	d with sha	le compon	ent -	max. 5%	betwee	1
				326.43 - 32										
				Siltstone :	nits co	ontain	disrup	ted sh	aley mater	ial and r	arer	shale fla	kes.	Occasional
				thin silts										

i I	GEOL	OGICAL	LOG			· · · · · · · · · · · · · · · · · · ·	line ode		М	Is Code		Page 24
ine/Pro	spect:		·	Name	: LEII	LA NO. 1			c	ore		
Level:	-	North	ning:	E	asting:			Collar	R.L. g	round/pi	pe:	
Bearing P	M/T/G:			Incline:	L	ength:	· · · · · · · · · · · · · · · · · · ·	Started:	· · / = · · ·		Fin	ished:
iole/Cor	e size:	. Н	⊋:	NQ:	BQ	Intervals	assayed	·				· · · · · · · · · · · · · · · · · · ·
Int	erval		Recov.y	Down Hole Sur	vey - Meth	od:	date:		by:	L	ogged !	by:
rom ·	to	length	M/kg			DESCRIP:	CION		L	<u> </u>		
315.03	334.80	19.77 (Contd.)		(2pseudomorphs) CBA 82-83 ⁰ .	. Trace s	ohalerite.	Basal 3.0	m exhibit	s rare	small che	rt ball	ls.
334.80	339.85	5.05		Gradational fro	m above in	terval but v	vith dark	grey shale	е сотро	onent domi	nant.	
			• • •	Irregular beddi		s. Chert ba	alls consp	icuous th	roughou	at siltsto	ne band	ls.
				Pyrite content	< 1%.			 				
339.85	350.65	10.80		Dark grey and n		grey poorly	pyritic pyritic	shale. 1	Pyrite	content <	2% but	up to 5%
·				over rare 200mm	sections.		· · · · · · · · · · · · · · · · · · ·				····	<u></u>
	<u> </u>			Infrequent ligh	t grey lam:	inated carbo	onate band	s to 150	mm thic	ck. Rare	medium	grey
	,			siltstone bands								·
350.65	351.23	0.58		Medium grey and		dolomitic	shale and	flinty si	ltstone	e - dolomi	te con	tent
251 22	255 70	4 47		increasing with		- 31			3-1-		1 . 3 .	<u> </u>
351.23	355.70	4.47		Thin poorly int			·····					
355,70	358.10	2.40		disruption thro Dark grey shale								
3,3,1,0	330.10			irregular and c								·····
		· · · · · · · · · · · · · · · · · · ·		scattered throu								
				to 100 mm thick					,	Boarno		rajero
358.10	364.05	5.95		Finely laminate								
				siltstone, com		······			ks or t	bands towa	rds the	e base.
				Minor oolitic o						eminated p	yrite a	as finely
-				layered bands v	p to 12% be	etween 359.0	08 - 363.5	6. ~ CBA	80°	,		

			•						-T		1
1	GEOLO	GICAL	LOG		·		Mine Lode		Ms Code		Page 25
ine/Pros	spect:			1	Name: I	EILA NO. 1	·		core		
evel:		Nort	hing:	•	Easting:			Collar R.L	. ground/p		·
earing N	M/T/G:			Incline:		Length:		Started:		Fin	ished:
	e size:	Н	Q:	NQ:	BQ	Interv	als assayed:		,	•	,
<u></u>	erval		Recov.y	Down Hole	Survey - Me	thod:	date:	by:		Logged	py:
rom	to	length	M/kg.			DESCR	IPTION				
364.05	365.30	1.25		Medium grey	to medium 1	light grey đ	olomite. In	termittent th	in poorly d	efined	shaley
							k) dolarenit				
365.30	366.13	0.83		Light grey	and medium 1	light grey d	isrupted and	brecciated o	olomite. I	large me	dium grev
			•	siltstone,	pinkish crea	am dolomite/	?tuff clasts	in finer gra	nular sized	d cherty	<u> </u>
				dolarenite	and sandy ma	atrix. Mino	r secondary	silica blebs.	Rare sty	lolites.	small
						blebs of pyr					· · · · · · · · · · · · · · · · · · ·
366.13	366.43	0.30		Light grey	laminated st	tromatolitic	dolomite -	laminations s	speckled gra	ey and s	lightly
				undulating o	or raised ap	ppearance.			· · · · · · · · · · · · · · · · · · ·		
366.43	367.26	0.83		Medium ligh	t grey cher	ty dolarenit	e breccia.	Rare large li	ight pinkis	n grey d	dolomite/
				tuff clasts	. Minor med	dium grey sh	ale layers t	o 20 mm. Vei	ry rare che	rt balls	and
				occasional	well develor	ped stylolit	es.				
367.26	369.02	. 1.76		Light grey	silty dololu	utite, intra	formational	or 'ghost' h	recciation.	Rare t	hin
				discontinuo	us medium g	rey siltstor	e strands.	Bedding poor	ly develope	1_throug	phout
	1			with minor							· · · · · · · · · · · · · · · · · · ·
369.02	377.82	. 8.80	٠.	Light grey	medium to the	hin bedded d	olomite. Me	dium grey la	minated sil	tstone a	and shales
				tuffaceous	siltstone e	ither as wel	l bedded uni	ts with light	t grey inte	rlamina	ted
								orted and sl			
				dolomite ba	nds compris	e brecciated	l or fragment	ed grey silt	stone clast	s and fi	iner flake
				Conspicuous	dark grey	poorly pyrit	ic shale ban	ds between 1	0mm - 100mm	thick	as minor
· · · · · · · · · · · · · · · · · · ·							· · · <u>· · · · · · · · · · · · · · · · </u>	s base - whi			
			1	with associ	ated crysta	lline pyrite	and sphaler	ite. CBA 82	-83 ⁰ .		

•	·· GEOLO	GICAL	LOG			17		Min	e Jode			Ms · Code		Page 26
Mine/Pro	spect:				Name:	LEII	LA NO. 1		•			core		
Level:		Nort	hing:		Easti	ng:	· · · · · · · · · · · · · · · · · · ·	······		Collar	R.L.	ground/p	ipe:	
Bearing	M/T/G:		<u></u>	Incline:	4	Le	ength:			Started	:		Fin	ished:
	e size:	H	Q:	NQ:	В	2	Interv	als a	ssayed:	·				
	erval		Recov.y	Down Hole	Survey	- Metho	od:	C	late:		by:		Logged	by:
from	to	length	M/kg				DESCR	IPTIC	N					
377.82	383.10	5.28	<u> </u>	Rapidly gra	adational	from a	above to	dark	grev do	lomitic.	carbo	naceous s	hale. V	'erv
<u> </u>				vague, stre										_
		·		Minor fine	light gr	ey wave	ey carbor	nate b	ands. '	Very fine	ly di	sseminate	d pyriti	c smears
				evident ald	ong rare	bands.								
383.10	392.34	9.24		Continuation	on of abo	ve and	although	n rema	ining i	ntermitte	ent, v	white poor	ly bedde	d. streaky
<u></u>				carbonate l	bands are	notice	eably mor	re fre	quent.	Some ass	ociat	ted coarse	grained	pvrite.
				CBA 84°.			•							
392.34	400.83	8.49		Distinctive	e interva	l of th	hin bedde	ed (2-	-10mm) d	olomitic	and o	carbonacec	ous shale	: with
				abundant wh	hite/ligh	t grey	and blui	ish g	rey ofte	n cherty	(?do]	lomite/tuf	f) dolon	ite bands
				to 150mm,	and inter	bedded	medium q	grey s	siltston	e. Dolo	omite	layers of	ten slum	ped
	·			or contorte	ed with t	hinner	beds dis	srupte	ed and c	rumbled.	Mino	or breccia	ation wit	:h
	•			conspicuou	s dark gr	ey sha	le fragme	ents a	and flak	es. From	n 399.	.00, white	dolomit	e
				bands abru	ptly dimi	sh to p	predomina	antly	thin po	orly bed	ded do	olomitic s	iltstone	and
				shaley or	dolomitic	shale								•
400.83	410.15	9.32		Thin to me	dium bedd	led, me	dium dark	grey	and da	rk grey o	dolomi	itic shale	and sha	ley
				siltstone.										
				by minor i	nflux of	dolare	nite as i	inter	mittent	disrupted	d clus	sters, thi	n bands	or
				isolated s	mall rour	ided pa	rticles v	up to	2mm dia	meter.	Mino	r medium g	grey silt	stone
				bands with	rare sha	ale fla	kes. O	ccasi	onal car	bonaceous	s sha	le grading	g from do	olomitic .
				shale unit	s exhibit	minor	blebs of	f pyr:	ite. Mi	nor pyri	tizati	ion of dol	larenite	fragments.
	 			CBA 84°.										
	 		 						····					

	GEOLOG	ICAL	LOG				1	line ode		Ms Code		Page 27
1					Name:	LEII	A NO. 1			core		
dine/Prosp	pect:	1320-45		<u> </u>	Easti				Collar R	.L. ground,	pipe:	
Level:		North	Trud :	1 2 2 2 2			Length:		Started:		Fi	nished:
Bearing M	/T/G:			Incline:				s assayed	<u> </u>			
Hole/Core	size:	НС): 	NQ:		3Q 	l				Logged	hv
Inte	rval .		Recov.y	Down Hole	Survey	- Met		date:		y:	Hogge	, .
from ·	to	length	M/kg		-		DESCRIP	TION				
410.15	429.43	19.28		Essentially	a cont.	inuatio	on from abov	e but with	major exo	tic componer	t compri	sing
710.13				small round	ed and	angula:	r medium gre	y dolomite	particles	to 3mm, lar	ger dola	renite
				fragments e	ither i	n thin	(5-30mm) co	ncentrated	sedimenta	ry bands, or	as loos	ely to
				medium pack	ed, mod	erately	y well sorte	d particle	s set in a	medium dark	qrey, m	edium
							d shaley sil					
				Intermitten	t thin	bedded	shale and s	iltstone a	nd rare da	rk grey poor	ly pyrit	ic
				carbonaceou	s shale	bands	interrupt t	he above t	urbidite d	olarenite/b	ceccia se	equences.
				Minor pyrit	e only.	CBA	83 ⁰ -85 ⁰ .					
429.43	439.90	10.47		Medium grey	and me	dium d	ark grey fir	ely lamina	ted tuffac	eous dolomi	cic silts	tone and
425.45	433.30			thin interb	edded a	nd int	erlaminated	shaley dol	omitic sil	tstone and m	medium da	ark grey
				dolomitic s			dark grey we					
	-			Bedding uni	ts betw	een <5	mm - 40mm th	nick with w	vague evide	nce of grad	ing.	
												oands to 10mm
							e intervals.					
439.90	442.63	2.73		Predominant	ly medi	um bed	ded, medium	light grey	dolomitic	siltstone	with free	quent dark
				grey and me	dium gr	ey lam	inated dolor	mitic carbo	onaceous sh	ale and tuf	faceous o	dolomitic
	-			siltstone b						lstone bands		
442.63	475.32	32.69		Uniformly t	hin bed	ided, m	nedium grey	and medium	dark grey	shaley dolo	mitic tu	ffaceous
442.03	4/3.32						y 10-20mm tl					
				_ <u> </u>			dolomitic s					
	l											
	j l		Į	Rare dark o	Trev car	rbonace	ous dolomit	ic shale b	ands. Macr	rosconic gra	ding of	units only

1	··· GEOLO	GICAL	LOG		<u> </u>	•		Min	e code			Ms Code		Page 28
Mine/Pro	spect:				Name:	LEILA	NO. 1		·			core		
Level:		North	ning:	•	Easti	.ng:				Collar I	R.L.	ground/	pipe:	
Bearing	M/T/G:			Incline:		Le	ength:			Started:			Fir	nished:
Hole/Cor	e size:	н	2:	NQ:	В	BQ	Interv	vals a	ssayed:					`.
Int	erval	······································	Recov.y	Down Hole	Survey	- Metho	od:	d	late:	. [1	by:		Logged	by:
from	to	length	M/kg.		:		DESCI	RIPTIC	N	*				
442.63	475.32	32.69		medium darl	k grey do	olomitic	shale.	Cons	picuous	rare pale	gree	en mudsto	ne/tuff	hands.
		(Contd.		to 25mm sl:										
	!			and minor				···						
475.32	482.52	7.2		Medium dar	t grey ar	nd dark	grey la	minate	d_dolomi	tic and c	arbo	naceous s	halo	· · · · · · · · · · · · · · · · · · ·
		————————————————————————————————————		Abundant f	racturing	g with m	ninor bro	ecciat	ion. I	Dominant m	natri	k and fra	cture fi	111
				mineral, w					· · · · · ·					
				Minor dolo				one ba	nds and	light gre	y th	in, ofter	discont	tinuous
	<u> </u>			dolomite b										
···				Between 47	····				· · · · · · · · · · · · · · · · · · · 					are well
		· ·		developed	pyrite cr	rystals	associa	ted wi	th fract	ures. Tr	ace :	sphalerit	:e.	
482.52	496.27	13.75		Predominan	tly thin	well-be	dded med	dium d	ark and	dark grey	do10	omitic ar	nd medium	n grey
	·			laminated	tuffaceou	us silts	tone. '	Thin <	5mm th:	ck light	grey	siltstor	ne bands	frequent
				at irregul	ar interv	vals thr	oughout	sligh	tly less	common c	ver l	basal 1.0	Om. Dis	stinctive
·	İ			grey black	carbonac	ceous sh	ale band	ds evi	dent as	minor com	pone	nt through	hout.	Numerous
			٠.	thin ≤10mm	thick bl	lue gree	n mudste	one/tu	ff bands	througho	out, 1	with prom	minent la	ayers
				between 48	2.10-482.	.13; 48	36.42-48	6.60;	488.03-	-488.02;	489.	25-489.34	1; 492.61	8-492.74;
	-			492.91-492										
496.27	502.14	5.87		Grey black	pyritic	carbona	ceous sl	hale.	Finely	dissemina	ited p	pyrite up	to 3% (over some
				sections of	r as thir	n wispy	strands	and r	are thir	n lightly	smea	red bands	3.	
	·			Pale green:	ish mudst	tone/tuf	f evide	nt bet	ween 496	5.78 - 496	.81;	500.00	- 500.10);
	·			Minor slic										

ì	· · GEOLO	OGICAL	LOG				Mine Cule		Ms Code		Page	29
ine/Pro	spect:			N	lame: LEII	LA NO. 1			core			,, <u> </u>
evel:		Nort	hing:		Easting:			Collar R.L.	ground/pi	.pe:		·
earing	M/T/G:			Incline:		Length:		Started:		Fini	shed:	
	e size:	Н	Q:	NQ:	BQ	Interva	ls assayed	•				
	erval	_,	Recov.y	Down Hole S	Survey - Me	thod:	date:	by:	I	Logged b	у:	
rom	to	length	M/kg			DESCRI	PTION					
502.14	510.43	8.29		Medium dark	grev thin be	edded slight	ly brittle	silty dolomit	ic and carb	onaceous	shal	е
								bands and bl				
	·	-		Rare pyrite	associated v	with fine for	racture crac	ks. Pale gre				
			, ,	thin < 20mm t	hick bands.	CBA 76-78 ^C	<u> </u>					
510.43	511.49	1.06						ing dolomitic				
				· · · · · · · · · · · · · · · · · · ·				ous large roun				
					s. Minor t	hin < 5mm th	ick pale cre	eam/green dolo	mite, mudst	tone/tuf:	f band	ıs.
				CBA 77°.		a ul avan a	iler delemi	e and dolomit	ic chale	Abundani	t thin	
511.49	514.45	2.96	<u> </u>					mudstone bar				
		 						12.80 - 512.87			•	
				513.83 - 514			B Detween J.	2.00 - 312.01	, 515.10	313.20	<u></u>	
514.45	515.90	1.45					erbedded med	lium dark grey	dolomitic	shale a	nd blu	ıe/
								laminated mud				
				сва 77 ⁰ -78 ⁰ .								
515.90	519.45	3.55						tuff and dus				
								r boudinage an				
				 	with increa	sing depth	and transit	ional to white	e/pink crys	talline	dolomi	.te.
				CBA 70°.								•
519.45	527.00	7.55						ttled medium		dolomit	е,	
				laminated to	massive do	olomite/tuff	and pale g	reen mudstone	bands.			
				Well develor	oed greenish	clay fille	d fractures	and stylolite	es common t	hroughou	t.	

A.O. (AUSTRALIA) PTY LT Page 30 Ms Code Mine Code GEOLOGICAL LOG core LEILA NO. 1 Name: line/Prospect: Collar R.L. ground/pipe: Easting: Northing: evel: Finished: Started: Length: Incline: learing M/T/G: Intervals assayed: BQ HQ: NQ: Hole/Core size: Logged by: Down Hole Survey - Method: date: by: Recov.y Interval DESCRIPTION length M/kg to from Radiating pseudomorphs after gypsum evident throughout mottled coarser crystalline 7.55 (contd.) 519.45 527.00 Minor pyrite coating fracture surfaces. CBA 60°. sections. 527.00m END OF HOLE Recovery throughout approx. 100%. NOTE:

APPENDIX 3

EL 1203, LEILA YARD

DDH MY 5

DETAILED LOGS AND ASSAYS

The Shell Company of Australia Limited METALS DIVISION

						D	RILL	. LOG SHI	EET						į
PROJECT	BALHINI	A JOINT VE	nture	••••••		Hol	e No	O: MY 5	********	••	C	OLLAR (O-ORDII	NATES: 4.45	2140N
LOCATION	CODE:	MÖ03	•••••			•					C	OLLAR	R.L. •	••••••	••
LOCATION	• EL 1203	MYRTLE I	BASIN AREA			DATE	STARTED	1.8.81	HOLE	SIZE	FROM	то	TOTAL	CCRE STORAGE	DARWIN
					••••	DATE	FINISHED	11,8,81	NON CORE	N₩	0	23	23	Nº OF TRAYS	47
MAP/PRO	IO NEF	HENCE				TOTA	L DEPTH	387.3M.						SAMPLE STORAGE	AMDEL
	}	IOLE SU	RVEY C	ATA		rog	GED OY	J.C. Bornman	CORE	NO	23	96	73	ASSAY LAB.	AMDEL
INSTRUMEN		· — · · · · · · · · · · · · · · · · · ·				CON	TRACTOR	RUCKORILL		BO	96	387.3	291.3	ASSAY	AC 1357/82
DEPTH	INSTR	UMENT AZ.	ACID INCL.	AZ.	REMARKS		RIG	FOX						REPORTS	
COLLAR						DRIL	L CREW		CASING	N4	0	23	23	MIN. & PET. LAB.	OMS
· - 11	 									NO	0	96	96	MIN. & PET.	CAS 81/11/41
									* CASING LEFT	NW	0	24	24	REPORTS	
								G	RAPHIC	LETTE	R SYMB	OF FO	GGING H	KEY	
					•	-	N	NON-CORE DRILLING	[ī) R	DOLORUD!	Œ			
							В	DOLOMITE BRECCIA		C S	CARBONACI	DUS SHALL			
							D	SHWLE (DOLOMITIC)		P S	PYTITIC :	SHALE	В	BEDDING	ERATION CODE O OXIDATION
							S	DOLOMITIC SILTSTONE		T S	TUFFACEO	JS SHALE	C F	JOINTING CLEAVAGE FOLIATION	
							A	DOLAPENITE		D 0	DOLOMITE			SHEAPING QUARTZ VEINS	
	·	1	·		L	_1			· · · · · · · · · · · · · · · · · · ·	·		··	· · · · · · · · · · · · · · · · · · ·		
DRILLING	SUMM	ARY 1			 										
															
			· · · · <u>-</u> · · · · · · ·			· · · · · ·					 				
														·	

PROJECT: BAUKDITA JV DOM MYS SCALE : 1:400 HOLE NO : Weighted Assays/Ratios % Estimates Assays Core % Description Log 2.00 0 2,00 4.00 N 4.00 6.00 8.00 N €.00 M 8.00 10.00 Mon-core drilling 12.00 M 10.00 N 14.00 12.00 14.00 16.00 16,00 18.00 N N 18,00 20.00 20.00 22.00 DB 22,00 24.00 26.00 DB 24.00 Breccia with dolomite, dolomitic siltstone, dolarenite and 26.00 28.00 DB occasional chert and carbonaceous shale (pyritic) fragments 28,60 19.60 DB 32.00 30.00 DE in dolomite matrix. 34.00 DΒ 32.90 34,00 36.00 DB DB 35.00 38.00 DB 38,00 40.00 40.00 42.00 DB 44.00 DB 42,00 46.00 DB 44.00 46.00 48.00 DB 48.00 50.00 DB DB 50.00 52.00 52.00 54,00 DB 54,00 56.00 DB 56.00 58,00 DB 58.76 60.39 Shaley facies of the above unit. Disturbed bedding, 58.00 60.00 SD slumping. 60.00 62.00 DS 64.00 DS 62.00 DS 64.00 66.00 68.00 66.00 DS 69.00 70.00 DS DS 72,00 Grey dolomitic miltstone with carbonaceous shale and shale 70.00 74,00 DS flake interbeds. Thick (up to 1.16m) dolarenite bands. 72.00 74.60 76.00 DS Unit becomes more shaley towards the base. Minor pyrite 78.00 76.00 DS associated with carbonaceous shale bands. DS 80.00 82.00 DS મનું , ધરો 84.00 H2.00 DS P4.00 86.00 DS 96.07 88.00 DS 84.00 90.00 DS 90,00 92.00 DS 92.00 94.00 DS. 94.00 96,00 DŞ.

> DS DS

96.00

98.00

100.00

SHEET 1 OF 4 SHEETS

PROJECT : BAUHINIA JOINT VENTURE

SCALE : 1:400

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.00	138.00			-#			SI							├	╁┼					-	╀╌╂	╅	+-	╁╼╁		┨├─	╅┪	-+	interbeds. More silty towards base.
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1.00	i			-44	+		D			-				┼	╀	+-		-+			╂╌┼			╁╌┼	+	╫┈	+-1	-	with occasional thin carbonaceous shale and dolomitic shale
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0.00	152.0	11		-+1			1 5		+	╌┾		1		 -	╅	-}-	╬	}			╁─╂	-+	+	1-1	_	1	11	\vdash	Occasional pyrite nodules.
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0.00	172.0		+		H		+		-+-	-+			-	†	+-+	-1-	-			1	1			1-1		1	1		and carbonaceous shale interbeds.
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4.00	176.0				╁┼		-		+-	一十			 	†	† †	_				1	\top		\neg	1	\Box	1	1		
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44.00			╁┼╌	-+	11		→	R -	+-				 	1	† †	+	_			\top	1	\Box			\Box				- 187.60
6 00	186.0		1	-+	††			D D	+			 		1	1-1	+	_			1								\Box	Laminated, interbedded dolomitic shale and dolarer
KB.00	190.0		1+-	-+	tt			D	_	_		<u> </u>		1	1-1	1				L			\perp			\prod		\Box	Minor pyrite associated with thin carbonaceous shale hands
95.00			 -	-+	11			D	-†-					1	77	_	-1			T	Ι_					\prod			193.15 Light grey delerudite with breccis fragments.
92.00	194.0		1		††		— ,	R		†				1												\perp	L		191.70 Pyrite nodules.
94.00			+	-†	1†			s					1		1-1	1	\neg			1	I					$oldsymbol{oldsymbol{oldsymbol{\Box}}}$			
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00.00	200.0	201.2		-+	††	MY500			10	35	13.0	500	K20	1-	1	_ -	1			1	7	[]	7		\prod_{i}		l [\Box	BHEFF 2 OF 4 SHEFFS

PROJECT : BAUHINIA JV

SCALE : 1:400

HOLE No: DOM NY 5

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Frem	To :	(m)	Core Rec'd	"	Sample H ⁰	Grap's Log	Cu	Pb	Žn,	λg	λs	T	T		Cu	P	. ,	20					T	T	AII.	P. S.	
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222.00	224.00		1	H		CS	 	┼──	 	+		 	+-	1-	1	+		-				-	+	H.	_	<u>ا را</u>	bonaceous and dolomitic shale grading to silty shale,
224.00	226.00		\vdash \dashv	+	004	CS	55	15	130	1	₹20		╅	†	├┼─	+	-+			+	\vdash		+	H	+	120	Slightly pyritic. Cyclic grading.
226.00	228.00		\vdash	╁		cs	 	-	 	 		 	╅	+	 		-			+	H	1	-+	Ħ	+	+-	Tuff bands at 236.52 - 238.59; 283.05 - 286.49;
228.00	230.00	i 1	 	Н		cs	 	! 	_	 		 -	+	+-1	1	+	-+				Н	\vdash	-+	#		1-	298.57 - 301.04; 309.52 - 310.88;
230.00	232.00		-	Н		es-	 	\vdash	 -	-		\vdash	-	+	┟╅╾╸		-		1	+-		-		#	1	1	312.76 - 313.53; 314.42 - 314.87.
232.00	234.00	 	-	Н	005	cs	42	20	330	3	₹20	 	+	1	H	1	_			+-	Н	\vdash	_	11	_	†-	thit becomes more shaley and carbonaceous towards the base.
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246.00	248.00		1	Ш		CS	1	1				1	\neg			1	\neg		┪			1.1		1	1	T	
248.00	250.00			Ш		CS	1	T					\top			T	1					П	1			T	
250,00	252.00			Ш	007	CS		20		280				1					7		П		1	1	T	1	
252.00	254.00			П	800	CS	100	20		220	₹20		1			\top	\neg			1		П		T	\top	Т	
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258.00	260.00			Ш	011	cs	30	25	110	11	₹20	I = I										\coprod	\Box			\perp	
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HOLE NO BOH MY 5

PROJECT: BAUHINIA JV

SCALE : 11400

HOLE NO 1 DOM MY 5

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354.00				1	П		TS				\perp					⊥	L		1_		_	\perp		\bot	1_	11	_		1	ــــــ	(357 - 371.20).
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381.0 385.0		85.00 87.30		-		} } -	DO DO	+	+	+-						-+		 	+-	+		┝╌┤	+	+	╁	+-		- +			- DScudomorphs Occasional green tuff hands
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APPENDIX 4

STATEMENT OF EXPENDITURE

EXPLORATION LICENCE 1203, LEILA YARD.

EXPENDITURE 7th SEPTEMBER, 1980 - 6th SEPTEMBER, 1981.

 Staff and Support
 \$ 11 651

 Field Expenses
 \$ 62 089

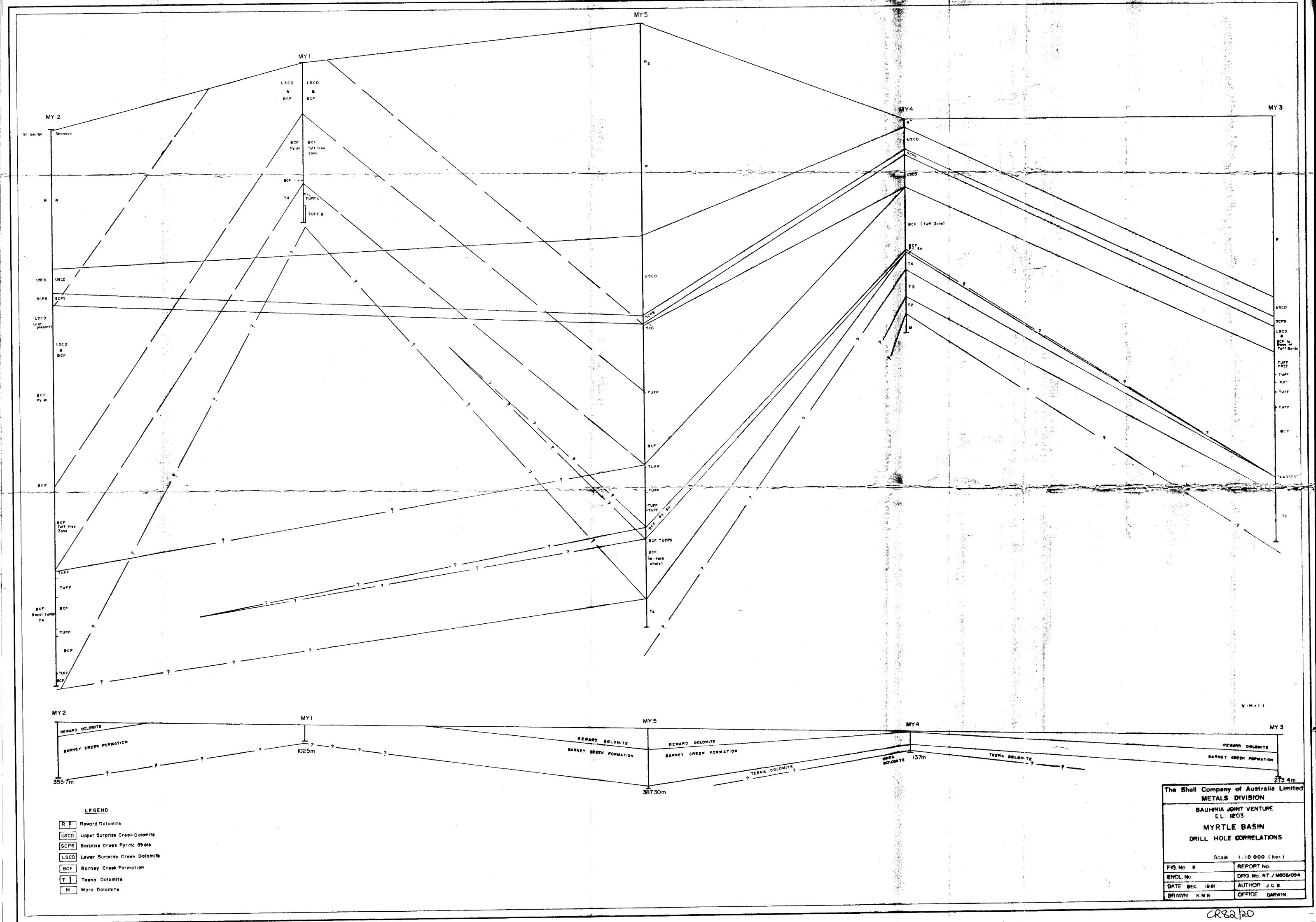
 Miscellaneous
 \$ 7 729

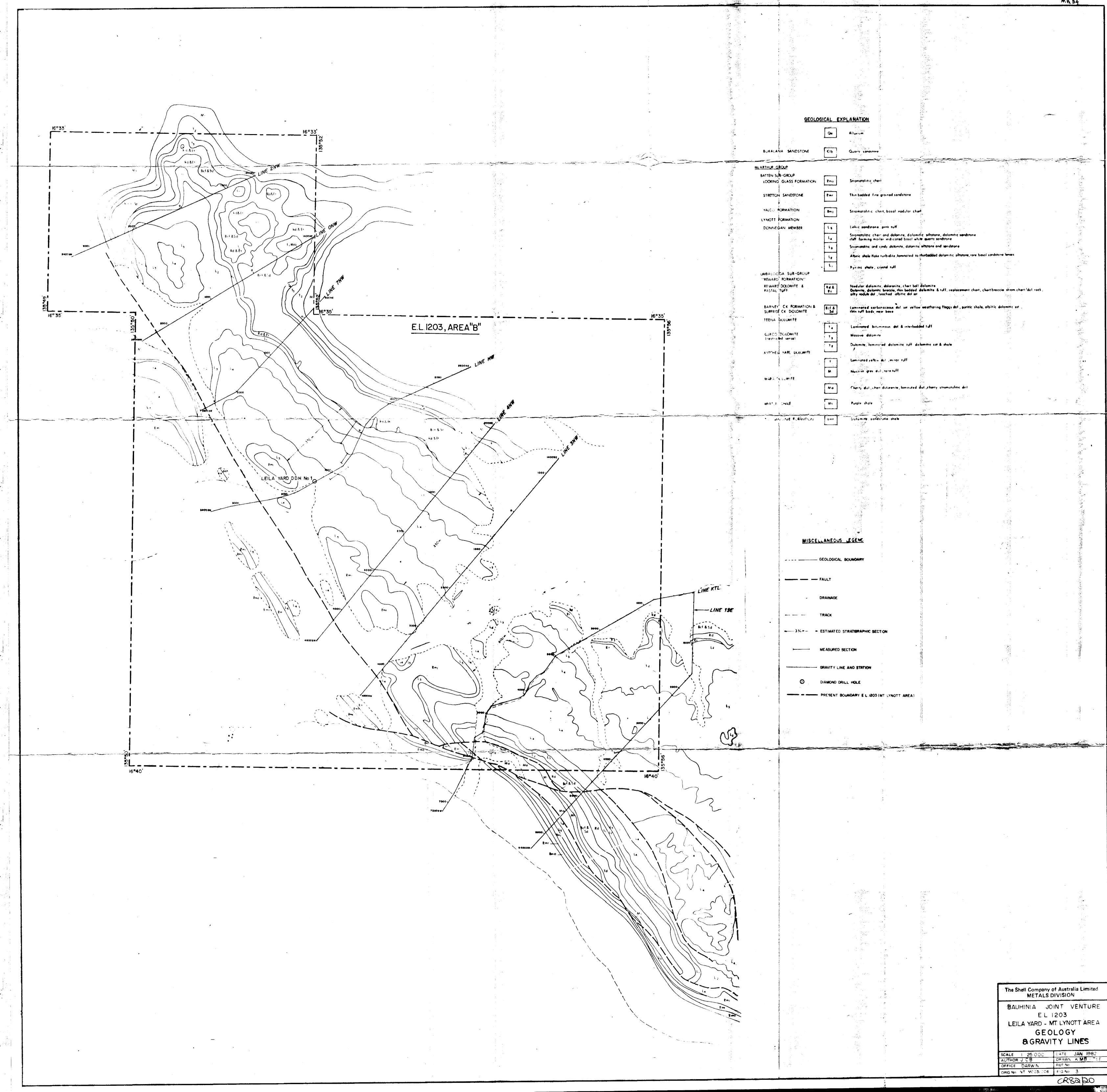
 Total
 \$ 81 469

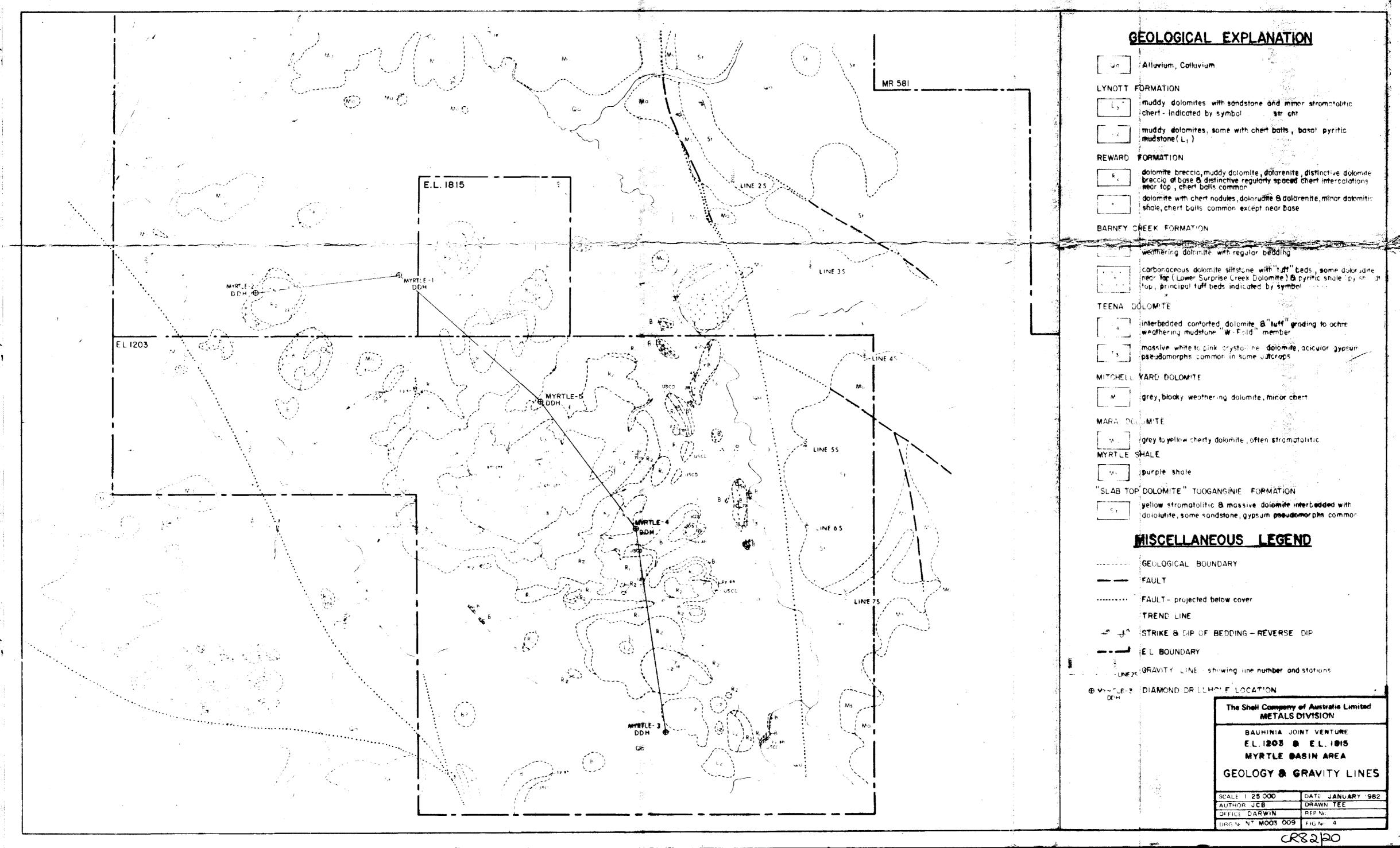
	ACCESSION OF DOCUMENTS & DATA
FILE/REPORT NO.	08.1076
AUTHOR	J.C. Bornman
DATE OF PUBLICATION	January, 1982
FILE HEADING/TITLE	Annual report on EL 1203 LEILA YARD, N.T., 7th September 1980 - 6th Spetember, 1981.
SOURCE (if Non-SCOA)	S.C.O.A.
SUBJECT	Annual report to N.T. Department of Mines and Energy

PROSPECT/PROJECT NAME	EL 1203, LEILA YARD.
KEYWORDS (Gold, Mi	ogeosyncline, Mining, Follution, etc.)
. 1	Exploration Licences, Mineral Exploration
3	Stratiform deposits Sulphide deposits
	Copper Lead
7.	Zinc S
9.	
GEOGRAPHICAL LOCATION	
STATE	NORTHERN TERRITORY
MAP REFERENCE	1:250,000 Sheet Ref Name SE 53-3 BAUHINIA DOWNS

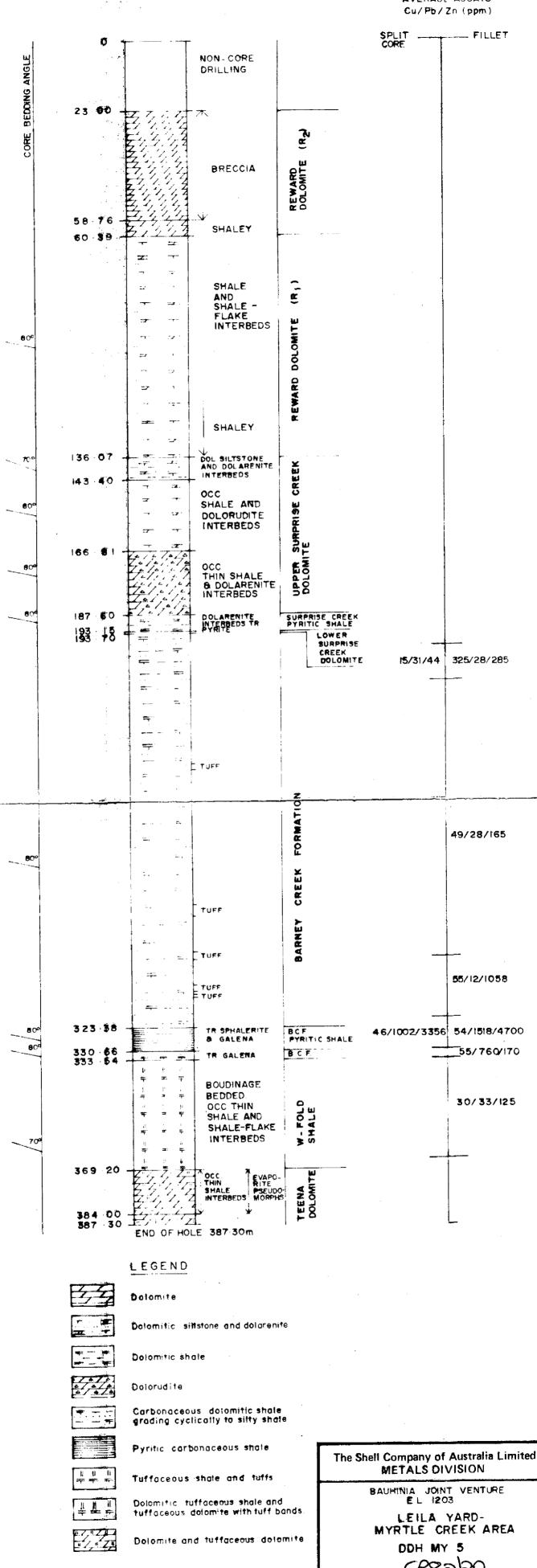
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AVERAGE ASSAYS



OCT 1981 KMB DRAWN DARWIN REP No DRG No NT / M003/003 FIG.No

SCALE I.

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