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SML 551

RADIUM HILL

PROGRESS REPORTS FOR THE PERIOD 11/3/71 TO 10/9/71

Submitted by

Longreach Metals NL 1971

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1971.

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LSD/AW

The Director of Mines, Box 38, Rundle Street P.O., Adelaide.S.A.5000 CHIEF CLERK
2 1 JUL 1971
DEPT. OF MAINES
ADELAIDE

13th July,1971

Dear Sir,

S.M.L. 551 RADIUM HILL S.A.

Attached are our Technical Report and Exploration Expenditure Summary for S.M.L.551 for the period 11th March to 11th June 1971

Yours faithfully, LONGREACH METALS N.L.

L.S.DENHOLM

Exploration Manager

Encls.

TECHNICAL REPORT FOR PERIOD 11th MARCH TO 11th JUNE 1971

The following is a summary report of activities carried out in the S.M.L. area during the three month period ending 11th June,1971:-

1) <u>MUTOOROO RIDGE</u> PROSPECT

The diamond drilling programme which was commenced during January,1971, continued during the quarter. Three holes, (M5, M6,M7) totalling 2215'7" were completed. A fourth hole, M8, is still in progress (see Plan 4.1b for locations).

Drill holes M2, M3, M4 (completed in previous quarter) M5, M7 and M8 (in progress) have been drilled to test coincident induced polarization and geochemical anomalies located between 172E and 188E during the previous period. All holes completed to date have intersected patchy, low grade, copper mineralization.

DDH M6, which was designed to test an I.P.anomaly on line 172N, did not intersect any significant copper mineralization. Minor pyrite, with associated magnetite, is thought to have caused the I.P. anomaly.

The assay results for M2, M3, M4, M5 and M6 are summarized in Table I. Silver values of up to 44 ppm have been obtained but these occur over narrow intervals only and are not economically significant.

2) Radiometric and Magnetic Anomalies

The results of the auger drilling programme conducted during the previous quarter were not encouraging. (see report for SML 274 period 1st March 1970 to 1st March 1971 for details). No further work will be carried out over these anomalies.

Future Exploration

Further exploration will be proposed subject to the results of DDH M8.

Plans

The following are attached:-

- a) Fig 1 Geological Locality Map showing location of Diamond Drill Holes.
- b) Fig 2 DDH M2, 3, 4.
- c) <u>Fig 3</u> DDH M5 -
- d) $\underline{\text{Fig 4}}$ DDH M6.
- e) <u>Fig</u> 5 DDH M7、
- f) Drill Log Sheets for DDH M2 7

 \sim A.EDWARDS

Resident Geologist

HOLE	DDH M2	FROM	TO	INTERVAL	COPPER %
Location	184E-101.33N	134'	158'	21'	0.45%
Depth . •	44814"				
Dтр	450	1661	173'3"	713"	0.27%
Bearing	1.40°	186'10"	194'11"	8'11"	υ. 26%
-		245 9"	26116"	1519"	0.48%
		328 ' 6"	331'3"	219"	1.35%
	٠	428'11"	4291	1.4"	2.8%
HOLE	DDH M3	170'8"	187 '3"	16'7"	0.25%
Location	184E-101N	202111"	<u> </u>	3611"	0.51%
Depth	4.47 1.19	261101	26512"	112"	1.6%
Dip	-55°	333111"	33810"	41711	1.25%
Bearing	140°	37310"	37910"	610"	1.05%
HOLE	DDH M4	31819"	32019"	2'0"	0.30%
Location	184E-103N	49310"	198 ' 6"	5'6"	0.23%
Depth	717'0"	50813"	51217"	41411	0.50%
Dip	-55°	52217"	52719".	5 '2"	1.06%
Bearing	140°				
,`				:	
HOLE	DDH M5		201 '4"	116"	0.49%
Location	188E-101.50N	2061011		12'0"	0.29%
Depth	501'4"	23010"	- 23510"	5'0"	0.50%
Dip	-55°				
Bearing	140°		•		•
HOLE	DDH M6		No signif	Cicant	
Location	172E-96N		mineraliz	ation intersect	ed.
Depth	75619"				
Dip .	-55°				
Bearing	. 140°			,	
HOLE	,: DDH M7				
Location	180E-102.50N		Assays no	ot to hand	
Depth	957'6"				
Dip	-60°				
Bearing	140°				4
HOLE	DDH M8				1.
Location	178E-103.95N		In progre	ess	
Depth	_				
Dip	-60°				
	0				

LONGREACH GROUP MANAGEMENT PTY, LTD.

COMPANY LONGREACH METALS N.L.

DIAMOND DRILL CORE RECORD

MUTOOROO - RIDGE

PROSPECT

Hole No.: DDH M2	Location of Site: 184E 101.83N	Reduced Level of Site:
Drilled By: A.D.D.	Date Commenced: 16.1.71	Bearing of Hole: 140°
Depth: 448'4"	Date Completed: 6. 2. 71	Dip of Hole: 45°
Core Recovery:	Sampling By: M.Henschke	Geological Logging By: A.Edwards
Dip 35° at 240'		

			LOGICAL LOG	 		ASS	AY	RES	UL	TS				
From Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width							
00"	7' 6"	90%	Pale pink and green qtz muscovite schist. Angle				11.7							ļ
			of sch variable from 5° - 30°. Qtz veins located											
			4' (10" thick) and 5'4" (10" thick)							200				
'' 6"	15' 6"	95%	Qtz mica schist mottled pink to pale green			1. 149				100				
			rock commonly stained red. Heavy mins- magnet-											
1000			ite - disemminated through rock. Limonitic											ļ.,
			vughs probably after magnetite common at 12'		10 (a) (A)									l.
	110	1 3 1 5 1 5 1	Otz veins at 9'2" (2" thick) 11'3" (1" thick) 12'.	13!7"										L
			Sch commonly 45°				. %							
5'6"	24' 6"	95%	Pink and pale green qtz mica schist v numerous				178,11							
			irreg limonitic veinlets and bands of dark red	15.43								14 14		
			Fe staining. Coarser grained qtz commonly											
			occurs in bondins.					100						Ī
	er jarenis.		Otz veins occur 15%9" (2") 1646" (2" thick)										•	
i ye			17'3" (10" thick) 19'3" (12" thick) All occur								1 1			
			//schistosity 50°. Fe oxides tend to conc.											
			around margins of qtz.											
24' 6"	32' 6"	98%	As above c conc of Ec along kink bands At.											ľ
			28'6" 6" qtz c vughs containing possible box-	4.4										Ī
			works and bright red weath micaceous material									Ī		
	1 1 1 1 1 1		(Fe rich chlorite)											Ī
21 611	391 311	100%	Pink, pale green and grey qtz mica schist c											Ī
	· · · · · · · · · · · · · · · · · · ·		occasional bands of ferrug. material and minor									Ī		ľ
			magnetite - sch. 35° - 40°.	100										
														Ī
							 			l	T		···· ··· ··· ···	ľ

PROSPECT

co	MPAN	v			100	٠.	· .	v 1	 Ì

DIAMOND DRILL CORE RECORD

			Location of Site:		n	£ 0.	.1					4 3 E	1.75	
			Date Commenced:		Bear	ring of H	o16:							Tiggs
			Date Completed:		Бір	or Hore:		D •						
	and the second second		Sampling By:		Geo.	rogical D	Burga	Бу						
Survey Da	ta:							- D. F. (T. C				نبث
			OGICAL LOG			ASS	AY	RE:	UL	1 5		1		7,11
From Ft. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width		Cu	Pb	Zn	Ag	Au	<u> </u>
39' 3"	47' 0"	100%	As above c possible inc. in mica content at 43'		40!_0"	43!_0!	-31011	<u></u>						
			Possible shear zone 41'-42' - irreg qtz veining	2 32 10 1 2 2 2 2 2					ļ					
			c abundant remnant Fe after magnetite or pyrite.						ļ					سنست
			- shear zone - sch 25° - 35° - 40° elsewhere.				ļ <u>.</u>				ļ			
47' 0"	56' 9"	80%	Pale green and grey qtz muscovite schist c					ļ	ļ					
			occasional red ferrug bands - core very friable					ļ	ļ					
			and broken 48-50' (not fault zone). Low				ļ		ļ			ļ		
			angle fracs 54' - 5-10°.					ļ			ļ			
56' 9"	65' 9"	80%	- as above - more qtzitic - qtz veins 57'3" and						ļ					
			62'3" - pink bands run 75° - sch 45°				ļ		ļ	ļ		ļ	ļ	ļ
65' 9"	731 611	98%	As above - sch 40° - minor Fe staining only.						ļ		ļ	ļ		
73' 6"	81' 6"	98%	As above - some Fe staining.					<u> </u>			 		<u> </u>	-
81' 6"	88' 6"	90%	As above - coarser grained at 86' - minor qtz		***	ļ	ļ	-		ļ	ļ			
			veining at 88' 3".				ļ	. 	ļ	ļ	ļ			-
88' 6"	100' 3"	65%	As above - core broken into wedges along sch.	<u> </u>	ļ				ļ	ļ	 		ļ	
- 17 ve			- sch 45° - kink bands at 45°.					_			ļ			ļ
100' 3"	105' 3"	98%	As above	19501	100' 3"	105' 3"	5'		86	16	12	0.2	x	
105' 3"	108' 0"	98%	As above - leached limonitic material 106'3" -	19502	105' 3"	108' 0"	7'9"	_	64	16	14	0.5	x	┼
			after S or magnatite (?) sch 40 minor kinking.		<u> </u>	ļ					ļ	-	-	-
108' 0"	114' 6"	95%	As above - 1" thickness of furruginous breccia	19503	108' 0"	114' 6	" 6'6	"	98	12	16	0.4	<u>x</u>	+
			Containing_angular_qtz_fraysFo-staining for	<u> </u>		-	-		+	-	 	+	1	-
			3" either side - breccia // sch.											+

PROSPECT

DIAMOND DRILL CORE RECORD

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Hole No.: DDH M2	Location of Site:		Reduced Level of Site:
Drilled By:	Date Commenced:	The contract of the contract of	Bearing of Hole:
Depth:Core Recovery:	Sampling By:		Geological Logging By:
Survey Data:			ASSAY RESULTS

		GEOI	OGICAL LOG	ASSAY RESULTS										
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Cu	Pb	Zn	Ag	. Au	
114' 6"	126'	44%	As above - N.B. core log	19504	114' 6"	126'	11' 6		250	18	18	0.6	0.08	
	4.4.		- Qtz veins at 115'6" and 126'											
			- kink bands <u>h</u> to sch 45°											
126'0"	134'0"	50%	As above c qtz veins at approx 134'0" and 131'0"	19505	126'0"	134'0"	81		430	16	26	0.6	x	
			- probable fault at 134'0" minor Fe bands						ļ					
		N gradi	Possible Ferrug fault breccia near 130'.					- 11.1						
134'0"	140' 9"	95%	Soft green friable occasional chloritic schist	19506	134' 0"	140' 9"	6'9"		4900	18	120	1.0	х	<u> </u>
			c Ferrug and bands sch 45°. Disseminated heavy	<u> </u>	 				ļ					
		<u> </u>	mins - probably magnatite (chalcocite?)(D.G.S)			<u> </u>				ļ	<u></u>			
		100	minor Cu stains.						6000	ļ		ļ		
140'9"	148' 0"	85%	As above	19507	140'9"	148'0"	71 3	ļ	6400	18	150	1.2	x	
148'0"	152' 9"	98%	As abovo c possible boxworks in quartaitie	19508	148'0"	152'9"	419"	ļ	3600	20	140	1.3	x	ļ
			veins and pods.					ļ	2.62		ļ			
152'9"	156'	98%	Severely kinked qtz chloritic schist c dissemin-	19509	152' 9"	156'0"	3'3"	ļ	1900	18	7 2	1.6	0.12	
			ated magnetite - boxworks c malachite staining.					ļ		ļ	ļ	ļ	ļ	
156'0"	158'0"	98%	Chloritic schist c irreg qtz veins and qtz in	19510	156'0"	158'0"	2'0"	ļ	2000	26	100	2.6	0.17	-
			lenses - minor heavy mn.				ļ		ļ	ļ		ļ	ļ	
158'0"	160'9"	99%	Ferrug. qtz mica schist limonitic veinlets and	19511	158' 0"	160' 9"	2' 9	n	1200	20	38	2.2	0.39	
			limonitic remnants after pyrite or magnetite sch			_	<u> </u>		<u> </u>	-	ļ			
			60° c minor kinking.				<u> </u>				<u> </u>		ļ	
160'9"	166'		Chlorite qtz magnetite schist - abundant dissem-	19512	160*9"	166'0"	5'3"		1600	16	59	3.0	0.00	<u> </u>
			inated magnetite - minor Cu staining sch 60°.				<u> </u>							
								ļ		_			!	
														-
														-
		1								1	1			

OMPANY _____

DIAMOND DRILL CORE RECORD

Hole No.: DDH M2	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:

	er i de de la companya de la company		LOGICAL LOG	ASSAY RESULTS												
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu	Pb	Zn	Ag	Au			
166'	169' 3"	98%	Qtz magnetite schist c minor malachite on sch.	19513	166'	169'3"	3'3"		4 0₹° 3600	16_	94	2.2	x			
			and in small veinlet.										ļ	Ĺ		
			- low angle frac (limonite filled) 5°.											ļ		
169'3"	173' 3"	95%	As above - qtz yein c. pyrolusite at 170'6"	19514	169' 3"	173' 3"	4'		2000	20_	84	1.8	0.38			
173'3"	17419"	100%	Quartz veining c ferrug. breccia and greenstone	19515	173' 3"	1741 9"	1'6"		1500	18	_50	1.7	0.53	_		
			or fractures													
74'9"	186'0"	98%	Quartz mica shist - sch 55° - abundant diss-	19516	174'9"	1831 7"	8'10"		600	16	28_	0.6	x	ļ		
			eminated magnetite minor qtz and limonite veining.	19517	183'7"	186'0"	215"		350	12	20_	0.7	x			
186'0"	186'10"	100%	Chlorite quartz schist - contact grades from	19518	186'0"	186'10"	10"	ļ	2100	18	170	2.1	.0.20	-		
			grms chlorite over 4"					ļ						ļ.,		
186'10"	191'9"	95%	Quartz veining c irregular chloritic schist frags	19519	186'10"	191'9"	4'11"		2200	28	_200	1.6	x_	ļ.		
		1 80	minor box-work.						ļ				ļ	ļ.,		
19119"	194'11"	95%	Soft vughy chloritic schists -vughs possibly	19520	191! 9"	194'11"	3' 2"	ļ	3000.	_22_	_270_	1.8	x	ļ.,		
			after Fc Co ₃ 2									ļ		-		
194'11"	206' 3"	40%	- yughs possibly after Fe Co.2	19521	194' 11	206' 3"	11'8	ļ	16ct0 1500	20	220_	1.2	x			
2061 31	216' 0"	40%	Chloritic schist c qtz and carbonate in bondins	19522	206' 3"	216' 0"	9'9		150	20_	180	1.4	ж	-		
s 5 .			up to 4" in length. Carbonates are calcite and				<u></u>			ļ			<u> </u>	-		
			siderite.							ļ	ļ	ļ				
216' 0"	223' 0"	98%	Chlorite schist c quartzitic members schistosity	19523	216'0"	223'0"	7'		170	22.	190_	1.4	x	4.		
			runs 50° - qtz and Co32 veining,									ļ	ļ	1.		
			- no bondins							ļ		<u> </u>	<u> </u>	4.		
223'0"	227'0"	99%	soft friable chloritic schist c vughs after	19524	223'0"	227'0"	ļ		62	24_	200	1.6	ļ			
			siderite minor qtz and Co32 lenses		<u> </u>			ļ	ļ	ļ		ļ	<u> </u>	4.		
				<u> </u>			ļ	ļ	ļ	ļ		ļ	ļ	4.		
									<u></u>	<u></u>			<u> </u>	1		

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DIAMOND DRILL CORE RECORD

PROSPECT ...

Hole No.:	DDH M2	,	Location of Site:		Red	uced Leve	1 of S	lte:						
Drilled B	y:		ニン・コンド エース はいじんかいしょ アンコンガージョン ディーング・ドラ コンデ			ring of H						Acres 1		
Depth:			Date Completed:			of Hole:					4.0			
Core Reco	very:		Sampling By:		Geo	logical L	ogging	Ву:					سيستميد.	
Survey Da	ta:									14 5 4				
			LOGICAL LOG	A S		ASS I	SAY		RESULT		, s		$\neg \neg$	
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu	Pb	Zn	Ag	Au	100
227'0"	234' 6"	99%	Gritty chloritic qtz schist c qtz and Co32	19525	227'0"	234'6"	7'6"		130	20	140	1.3	_x	
			hondins - dissem heavy min. Frags of grit.	1 4 4 5	1 914									
23416"	239'0"	100%	Soft dark green chloritic sch c angular qtz frags. Vughs Co ₃ ²	19527	23416"	239'0"	4'6"		820	14	200	1.8	_x	1
239'0"	240'0"	100%	Dark green chloritic schist c vughs partially	19528	239'0"	240 ' 0"	1'0"		5200	20	210	2.0	x	
			filled c melachite and minor veinlets of											
	1 11-4-1		malachite 0-1% Cu.	ļ					ļ					
240'0"	243'6"	95%	Core extremely broken up. Highly sheared	19529	240'0"	243'6"	3'6"		1000	20	220	2.8	_X	
			chloritic schists. Malachite on some fractures-	-							ļ			
			Cu trace only	3.05.20	243'6"	245'9"	21311		1300	22	210	2.0		-
243'6"	245!9"	99%	Fine chloritic sch = slightly qtzitic coccasional grit sized frags of qtz. Minor Cu	19550	243 0	24) 7	1	1	1300					
		 	trace only. C.B.A.60°.											
245'9"	248'0"	95%	Extremely frac sheared chloritic schist -	19531	24519"	248'0"	2'3"		6200	26	200	3.0	x	ļ
			numerous Co ₃ ² vughs. Numerous thin veinlets							ļ	ļ		ļ	
			of malachite Cu ½-1%							ļ	 		ļ	
248'0"	249'3"	100%	Chloritic schist c c.g.angular qtz frags -		24810"	249'3"	1'3"		2100	22	230	2.4	x	+
			minor Co32 traces of malachite on sch planes only.	T					 :	}			<u> </u>	
249'3"	252'0"	30%	Gritty chloritic schist c qtz veining, minor	19532	249'3"	252'0"	2'9"	 -	1.10	<u>20</u>	160	5.0		
			fels. numerous narrow veinlets of Cu.			_				<u> </u>			1	
252'0"	259'9"	30%	Cu above c little or no Cu	1953/	252'0"	259'9"	1'9"	-	660	24	160	1.8	×	
		_	Quartz muscovite schist. Possible chlorite C.B.A. 60° minor veinlet malachite Cu trace only.				-		-	<u> </u>	1	1	1	1
			U.B.A. OU MINOT VEILLE MALACILLE OU TRACE Only.						1	1				1
		-		-	-	1								
														

LONGREACH GRO	oup managem	ENT PTY	LTD
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FORM	12	- 61

COMPANY					
COLICIANT	-	***	 	 	

DIAMOND DRILL CORE RECORD

PROSPECT

up to 1" diam. Malachite occurs in chloritic

matrix 2-3% Cu.

. Hole No.: DDH M2 tocation of Site: Reduced Level of Site: Drilled By: Bearing of Hole:															
Depth:			Date Completed:		D1p	of Hole:		···						السيستي	
Core Reco	very:		Sampling By:	Geological Logging By:											
Survey Da	ta:							3.25							
			LOGICAL LOG	ASSAY RESULTS											
From Ft. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Cu	Pb	Zn	Ag	Au		
259 ' 9"	261'6"	98%	Quartzitic chloritic schist - numerous thin	19535	25919"	261'6"	1'9"		1:30	% 20	200	6.0	x		
			malachite veinlets $-\frac{1}{2}$ -1% Cu C.B.A. 60° .												
261'6"	269'0"	95%	Fine gritty chloritic schist c qtz and possible	19536	261'6"	269 ' 0"	8'6"		1400	20	240	2.8	x		
			siderite. Minor malachite in some portions-								1.00	1			
		Programme and the second	isolated blebs or veinlets.												
269'0"	275'3"	100%	as above - CBZ (sch) 600	19537	269'0"	275'3"	6'3"		1400	22	210	3.6	x		
275 ' 3"	280'3"	100%	Fine grained chloritic schists - metatrachykes	19538	275 ' 3"	280'3"	5'		1800	26	280	4.8	×		
			(?). Numerous qtz and carbonate veinlets some												
			possible vescicles.												
<u> </u>			Contact btwn meta seds and volc indefinite.									ļ			
280'3"	288'0"	100%	As above - 4° qtz vein 283'9"	19539	280'3"	288'0"	7'9"	ļ	470	26	250	2.2.			
288' 9"	2981 6"	100%	Fine grained dark green chlorite biotite schist	19540	288' 9"	.296! 9!	8.		200	22	240	1.8.		ļ	
			c narrow carbonate stringers and qtz veins 1"				ļ				ļ	ļ	<u> </u>	<u> </u>	
			- ‡" thick								<u> </u>			ļ	
			Sch 60°	19541	29619"	298' 6"	1'9"		200	26	230	1.6	<u>x</u>		
			Occasional grit sized qtz frags c stain shadows												
			around qtz.								1				
2981 6"	3071 611	. 100%	As above i.e. chlorite biotite schist	19543	29816"	307'6"	9'6"		230	30	210	1.6	x		
11' of	ore missi	g betwo	en 307'6" and 328'6" i.e. 8'6" recovered -	19542	Thin sec	ion		100		in the			<u> </u>		
	core loss														
307'6"	315'0"	40%	As above c 6" qtz vein at ≈ 312'	19544	307'6"	315'0"	7'6"		460	26	300	1.6	x		
315'0"	324'0"	40%	Chloritic qtz schist c irreg qtz veins 2-3" thic	k19545.	31520"	324101	9'		170	18	290	1.2	x		
	<u></u>		at 320'												
324'0"	32816"	40%	Coarse gritty chloritic schist with angular and	19546	324 1011	328'6"	4 '		190	26	250	1.6	x		
328 '6"	331,13"	100%	sub-angular qtz pebbles and fragments. Pebbles	19547	32816"	331 ' 3"	2'9"		1,35	% 22	270	14.0	x	"	

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FORM 12 - 69

DIAMOND DRILL CORE RECORD

COMPANY

	Location of Site:	Reduced Level of Site:
Hole No.: DDU M2 Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole: Geological Logging By:
Survey Data:		

			OGICAL LOG										0.5	10.00
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True Width	Cu	Pb	Zn	Ag	Au	
331 '3"	337'0"		Coarse grained dark green rock consisting of	19548	331 '3"	337'0"	519"		300	22	270	1.4	х	
			elongated but angular fragments of greenstone		w (19 11)									-
	s (j.83		and quartz in a chloritic ground mass.											-
			sch≈60°	r z in in i										ļ
337'0"	337' 6"	100%	Sheared gritty chloritic schist with numerous	19550	337'0"	337'6"	6"		5200	46	280	2.8	0.38	
			thin veinlets of malachite $\frac{1}{2}$ -1% Cu.	<i>31.</i> 9										_
337'6"	340'0"	100%	Quartz vein with chloritic inclusions	19551	337' 6"	340' 0"	2'6"		120	20	50	1.0	<u>x</u>	ļ
340'0"	348'0"	37%	Well banded, sandy gritty chlorite qtz muscovite	19552	340 ' 0"	348'0"	81		100	20	130	1.2	<u>x</u>	
			schist. Bands sometimos kinked. CBA - 80°									<u> </u>		_
348 ' 0"	350'6"	100%	Well banded grey-greenish grey chloritic schist	19553	34810"	350 '6"	2'6"		22	24	230	2.0	x	ļ
			containing grit sized sub angular lensoid								<u> </u>			1
			carbonate particles								<u> </u>			_
350'6"	355'6"	100%	Fine greenish grey chlorite biotite schist	19554	350'6"	355'6"	5'		88	24	330	2.2	_x	1
355'6"	358'0"	100%	Greenish grey chloritic schist containing	19555	355'6"	358'0"	2'6"		84	24	240	1.4	_x	1
10.0.0	358.0	100%	irregular lensoid carbonate fragments ranging											_
		<u> </u>	from sand to grit sizes.				1 1							_
		-	1" qtz vein at 356'6"										ļ	_
358'0"	358'10"	100%	Fine grained chlorite biotite schist - CBA 60°	19556	358'0"	358'10"	10"		120	22	330	2.0	x	1
358'10"	366'3"	100%	Greenish grey chloritic schist containing angular	10557	358110"	36613"	719"		. 100	24	-250-	1.8-		
358.10.	360.3	100%	lensoid carbonate material ranging from sand grit										<u> </u>	<u>.</u>
			size. Some apparent banding.	19558	Thin	section (3631)				1			
36613"	370'0"	100%	Medium grained chlorite biotite schist with	19559	366'3"	370'0"	319"		460	22	130	1.4	_x_	1
······································			elongated qtz fragments and carbonate schist 50°											
370'0"	378'6"	90%	As above	19560	370'0"	378'6"	8'6"		140	22	130	1.2		_
				1										
						T		1	1					

COMPANY ____

PROSPECT ___

DIAMOND DRILL CORE RECORD

DIM M2		
Hole No.:	Location of Site:	_ Reduced Level of Site:
Drilled By:	Date Commenced:	_ Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	_ Geological Logging By:
Survey Data:	기가 있는 이번 때 하나 있다는 경기를 받는데 되었다.	집 사람들 등 교통을 내용 점을 된 이번째 점을 다고 여하였다.

			OGICAL LOG	1		ASS	AY	RES	UL	r s				
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu	Pb	Zn	Ag	Au	
378'6"	38216"	95%	Chlorite biotite schist with carbonate and	19561	378'6"	382'6"	4.		24	28	280	1.2	x	_
			qtz fragments commonly lensoid often irregular											_
382'6"	392'0"	92%	Fine to med grained chlorite biotite schist.	19562	382!6"	39210"	9!6"		64	24	.250	15	3 6	ļ
			Minor irregular quartz veining. Lensoid	19572	Thin	section					<u> </u>			ļ
			particles of quartz and carbonate											ļ
			2" carbonate veins at 389'3"	n - 120 1	Jan 84.									-
,			2" qtz veins with chlorite inclusion at 391'											ļ.,
392'0"	396'0"	100%	As above - schist 60°	19563	39210"	396 '0"	4'		34	26	210	1.6	<u>x</u>	ļ.,
			- small faults 45°											1
396'0"	401.13"	100%	As above - minor Cu staining on some low angle	19564	396'0"	401'3"	513"		44	94	230		x	
			fractures								ļ			1
401'3"	407 ' 9"	100%	As above	19565	401'3"	40719"	6'6"		180	30	230	2.0	x	
40719"	411'6"	100%	As above	19566	40719"	411'6"	31911		28	24	230	1.5	x	Į.
411'6"	420 ' 2"	100%	As above - fault zone	19567	411'6"	42012"	8'8"		84	34	280	1.6	x	ļ.,
			418'6"-419'- // with schist i.e. 50°									<u> </u>		
			Possible flow top 413'9"											
420'2"	42811"	100%	As above	19568	420 ' 2"	42811"	7'11"		64	34	240	1.5	x	
428'11"	429'0"	100%	As above with irregular carbonate veining	19569	428'11"	429'0"	11"		3.7%	42	270	33.0	0.78	<u>.</u>
			containing malachite and chalcocite. Chalcocite			1								1
			is altering to malachite											1.
129'0"	429 5"	100%	Soft friable chloritic schist with malachite	1.9570.	429 ! 0"	429 15"	5"		2000	40	-320	4.1	¥	ļ.
			veining				ļ		ļ					4.
			- possible shear zone				<u> </u>				ļ			1
4F4 201, 102 VII. (M) 200 VII. 1977	<u> </u>				ļ			ļ	ļ		<u> </u>			1,
									ļ			<u> </u>		1.
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	9		성화 교사 관련 전환하다 회사가 보고를 하다			7. G					(001	4
			DIAMOND DRILL CORE I	(ECORD									٠
			PROSPECT										
	DDI	H M2	이 보기 한다면서 보다 돼요 그런 말이 되다.										
Hole No.:			Location of Site: Date Commenced:										
			Date Commenced:		Dip	of Hole:							
			Sampling By:		Geo	logical L	ogging	Ву:					
											<u> </u>		
		G E O Core	LOGICAL LOG			ASS		RES	UL	TS_			Τ
From	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Cu	Рь	Zn	Ag	
42915"	438'0"	100%	Chlorite biotite schist with irregular lensoid		429'5"	438!0"	817"		140	38	240	1.6]_
438'0"	448 '4"	100%	carbonate and quartz fragments	19574		448 4 4 11	10'4"		68	34	290	1.6	
												276	
			END OF HOLE							1.7			
		<u> </u>	END OF HOLE		7.7								Ī
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COMPANY LONGREACH METALS

DIAMOND DRILL CORE RECORD

	PROSPECT Mutooroo Ridge	- 사용의 - 함께 함께 하고 있다면 보는 다른
DDH M3	Location of Site:	Reduced Level of Site:
Hole No.: A.D.D. Drilled By: A.D.D.	Location of Site: Date Commenced: 7.2.71	Bearing of Hole: 140° (grid)
	P-to Completed: 25.2.71	Dip of Hole: -55°
Core Recovery:	Sampling By:	Geological Logging By: A.Edwards
Survey Data:		

			OGICAL LOG			ASS		7			12. J 1			
From	To	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width						
. Ins.	Ft. Ins.	% 75%	Core very broken with low core recovery before					1.						
0 , 0,,	.10. 6.	13%				2000								<u> 4</u>
			8½". Pale pink rocks with pale green streaks -											
			quartz muscovite schist - commonly Fe stained	 -			<u> </u>							
			with limonite in veinlets			<u> </u>								
			Qtz veins - 8'3" - 8'9" contains chlorite											<u> </u>
			and minor felspar.						ļ	ļ		ļ		
			Qtz veins - 6'6" - 6'8" contains chlorite					ļ				ļ		
10' 6"	12' 0"	95%	Quartz vein.							<u> </u>		<u> </u>		
		95%	Quartz muscovite schist (QMS) tending towards	10.1				<u> </u>		<u> </u>				
12' 0"	17' 0"	95%												
	ļ		quartzite - grey to pink in col				1							
17' 0"	19' 3"	100%	Pale greenish brown - grey siltstones containing	-		- 	1	1		-	1			
			martitized magnetite Xsts - Sch 30°								 	†		T
			Lower contact parallel schistosity									 		†
19' 3"	24' 9"	85%	Grey quartzite - minor grms limonite stains											+-
			and limonitic veinlets - sch 40°											+-
24' 9"	26' 6"	100%	Quartz vein with chlorite, limonite fillings						<u> </u>		ļ		ļ	-
		†	on cavities and pink felspar - plagioclase.										ļ	
	341 311	95%	Quartzite and pale green gritty Q.M.S.limonite											
26' 6"	34 3"	95%							1			<u> </u>		
			filled joints - possibly gossamous. 28'3" +											
			28'9". Quartz vein - 30'9" - 31'9"	_			1		1					
			Sch. 40°						-					1
34' 3"	40' 8"	95%	Pink to pale green, gritty quartz mica schists.											+
			Limonitic staining around fractures. Limonito.				-						-	+
	1		pseudomorps after magnetite and martite.											+
			Sch 30°										_	4
							T							

COMPANY				
OUTHERITE	**********	 	***	

DIAMOND DRILL CORE RECORD

Mutooroo Ridge

PROSPECT

Hole No.	DDH M	, 	Location of Site:			luced Leve	21 of S	Site:						
			Date Commenced:		Bea	ring of I	lole:			4.3.11			100	
			Date Completed:		D11	of Hole	:		4, 413		T. Missi		100	
2.7		70 00	Sampling By:		Ged	logical I	ogging	Ву:						
Survey D	ata:													
	1		LOGICAL LOG			ASS	AY	RE	SUL	T S		-		- 7
From Ft. Ins	Core Recov. DESCRIPTION		Sample No.	From Ft. Ins.	To Ft. Ins		True							
40' 8"	441 9"	98%	As above			11.			7		1	1		
44' 9"	51' 9"	98%	As above - sch. 35°					1	1	1			-	1
51' 9"	55' 0"	98%						†	†	†			 	+
551 011	63' 4"	98%	As above - qtz vein								-	-		-
			61'-61'6" sch 35°. Cross frac 40° - minor kin	kinb					1					
			rt.angles core						1		1		1	1
631 4"	68' 4"	100%	As above						-			-		
68' 4"	69' 6"	100%	Pink to pale green gritty quartz mica schists a	s							 		 	1
			above - Two cavities filled with gossamous											
			material, possibly after sulphide.											T
6916"	72' 6"	100%	As above											
72' 6"	77' 8"	100%	As above with 6" quartz vein at 76'6" - contains		er er	ne test								
			minor chlorite.	e jili kusar		40 M					1			
77' 8"	86' 6"	95%	As above - sch 30°								1		1	1
861 611	91' 9"	95%	Pink to pale green gritty gms with red brown											
			and yellow limonite stainings.				1 -4							
91' 9"	100' 5"	100%	Pale greenish grey QMS with red brown limonitic											
			stainings - sch 40° - minor kinking										1	†
100' 5"	107' 8"	100%	As above							ļ <u>.</u>		ļ	 	
107' 8"	114' 8"	100%	As above										<u> </u>	-
114' 8"	121' 8"	_100%	As above - 3" qtz vein at 114'8" with irregular			· In								-
			goethite inclusions - sch 40°.											-
														
*************	•													
														
	1							I			1			1

DIAMOND DRILL CORE RECORD

Mutooroo Ridge

		무슨 사람들 살아가지 않아 나는 나라를 보고 있다.
Hole No.: DDH M3	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole: Dip of Hole:
Depth: Core Recovery:	Date Completed: Sampling By:	Geological Logging By:
Survey Data:		

	distribution of	GEOI	OGICAL LOG			ASS	AY	RES	UL	T S				
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu	Pb	Zn	Ag		
121' 8"	127'5"	100%	Grey to yellowish grey QMS with limonitic			7.5 5.5	- 1. Sa							
			stains around irregular veins and fractures and						A. S					
			some sch planes. Sch 45° - quart vein -							20.3				
			126'-126'10"- irregular fractures. With											
	1 40 - 130		conc Fe staining on lower side.											
127'5"	133'0"	100%	QMS as above - sch 40											_
133' 0"	143'0"	100%	QMS as above - some kinking - prominent at 142'											Ĺ
143'0"	146'11"	100%	As above											
146'11"	147'10"	100%	Kinked QMS with malachite on schistosity planes	19751	146'11"	147'10"	11"		390	14	22	0.8	×	
147'10"	153'3"	100%	QMS as above - small vughy quart vein with											ļ
			limonite in vein on open fracture parallel with											L.
			schistosity i.e. 40°											
153' 3"	158'0"	95%	As above											L
158'0"	161'2"	25%	Gms as above. Core loss due to vughy ground											ļ.,
161'2"	164'0"	20%			4, 1, 1, 1					-	47.2			1
164'0"	167'10"	8%												
167'10"	169'6"	100%	Sandy to gritty dark greenish grey chloritic	19752	167'10"	169'6"	1'8"		1600	56	140	1.5	x	ļ.,
			schist grading to a pale grey QMS - sch 4500											
			Some qtz veins gossanous material - 168'0"					<u> </u>						
169'6"	170'8"	100%	Quartz vein - minor chloritic inclusions on	19753	169'6"	170'8"	1'2"		760	16	42_	0.7		ļ.,
***************************************			lower side	<u> </u>									<u> </u>	1
170'8"	175'2"	100%	Grey AMS with quartz and carbonate layers and	19754	170'8"	175 ' 2"	4'6"		2200	26	92	1.1	x	ļ.
			stringers grading fine grained dark greyish				<u> </u>		<u> </u>		ļ		ļ	1
***************************************		1	green chloritic schist.				<u> </u>		ļ			1	<u> </u>	1.
	1		2" quartz vein 170'10".Prominent kink band at				<u> </u>	<u> </u>	<u> </u>				<u> </u>	. .
	1	1	171'6"				76.7							

LONGREACH GROUP MANAGEMENT PTY, LTD.

COMPANY

Mutooroo Ridge

DIAMOND DRILL CORE RECORD

DDH M3	Location of Site:	Reduced Level of Site:
Orilled By:		Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:

		Core	LOGICAL LOG			ASS	AI	KE	SUL	1 8				т-
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.		To Ft. Ins	Drill Width		Cu	Рь	$\mathbf{z_n}$	Ag	Au	
175'2"	182'9"	100%	Dark greenish grey chloritic schist-sch.40°	19755	175'2"	182'9"	715"		2500	30	140	1.2	x	T
			Fractures coated with limonite and Mn 0				5-4							
			dendrites.											Ī
18219"	186'6"	100%	As above increasing bands of quartz and carbonate	19756	182'9"	186'6"	319"		2800	34	190	2.8	x	Ī
			towards 186'6"											Ī
186'6"	187'3"	100%	Bands of chloritic schist interspersed with	19757	186'6"	187'3"	9"		2200	28	100	2.0	x	Ī
		177	irregular layers of vughy	40,14			1. 1.							Ī
			Carbonate Minor malachite in vughs and in small											Ī
45%			flecks on schistosity planes.											Ī
187'3"	191'0"	100%	Quartz chlorite and muscovite schists containing	19758	187'3"	191'0"	319"		700	18	58	1.5	х	I
			irregular grit and pebble sized quartz											
			fragments. Irregular 3" quartz vein approximate	lу										
		30 T 30 T 30 T	parallel schistosity at 190' - sch.40°.							1				
191'0"	196'10"	100%	White to pale greenish grey banded g.m.s. with	19759	191'0"	196'10"	5'10"		420	20	72	0.8	x	
			occasional Fe bands - some boxwork after sulphide								<u></u>			
······································			sch.55°, Hematite, maratized magnetic and with											
			minor pyrite.	<u> </u>					<u> </u>					
196'10"	202'11"	100%	Qms grading to chlorite quartz schist (chloritic	19760	196'10"	202'11"	6'1"		2100	16	86	1.4	x	l
			interbands increase vughs and boxworks, possibley											
			after sulphide. Minor kinking approximately-		4.1.71									
			Sch 40°											
202'11"	204'8"	100%	Chloritic schist with quartz interbeds -	19761	202'11"	204'8"	1'9"		3800	26	210	1.8	x	
			commonly with martized magnetic and limonite							···				l.
*** 171 LON LOS DOT MIL 107 LOS SECULOS			after sulphide				ļ							
							<u> </u>							1
														
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DIAMOND DRILL CORE RECORD

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	Mutooroo	Ridge			
PROSPECT			 	 	

DDH M3	함께 공연하고 있으면 있다. 그 그 것은 일 곳 같은	4일 : (B. 1987) 11 : (B. 1988) 12 :
Hole No.: Drilled By:		Reduced Level of Site:
Depth:	Date Commenced:	Bearing of Hole:
		Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:
Survey Data:	시마스 이 집에 가장 가장 가장 있다. 그리고 하는 이 글로 가장 이번	보장이 되는 아이들이 나는 모양이 되는 것들은 사고 있다면 하는 것이다. 그렇게 다 되었다.

	1	Core	LOGICAL LOG			ASS	AY	RE	SUL	T S				
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True Width	Cu	Pb	Zn	Ag	Au	
204 ' 8"	209 '4"	100%	Gritty chloritic schist with quartz chlorite	19762	204 ' 8"	20914"	4'8"		8000	20	120	1.5	0.29	
			interbeds-malachite in veinlets and on fractures										-	
			-also small irregular blobs - ½% Cu. Abundant											
-			dark min- martized magnetite? Sch 45°				gard.							
209'4"	214'8"	100%	Quartz chlorite muscovite schist with abundant	19763	209 4"	214'8"	5'4"		7400	16	150	1.3	x	
			magnetite- blebs and veinlets of malachite -											
			vughs = after sulphide	313							1			
214 ' 8"	220'6"	100%	Irregular bands of chlorite quartz with hematite-	19764	214'8"	220'2"	5'6"		.030 5200	16	150	1.4	x	
			- quartz commonly in boudins commonly vughy -											
	ila gibiga		minor malachite on fractures - sch 40°											
22016"	22610"	100%	Quartz muscovite sch with interbands chlorite.	19765	220'6"	226'0"	5'6"		4900	18	130	1.0	v	
			Abundant disseminated magnetite some boxworks											
			after sulphide - minor malachite on sch planes					t ·						
			mainly in vughs, in 1" quartz vein (parallel	1										
			schist at 225') and in X fracs.			1.0					. 4			
2610"	230'6"	100%	Quartz muscovite to quartz magnetite schist.	19766	226 ' 0"	227'8"	1'8"	'	33°04" 3600	24	150	1.3		
			-malachite and chrysacolla in veinlets and in	19767	227'8"	230'6"	2'10"		4900	20	_	1.0	~~···	
			quartz veins.											
		***************************************	Quartz voins - 6" - 226'2"											••••
			All with 2" 227'6"								4.2			
			malachite 1" 228'											
30'6"	23219"	100%	Quartz vein with chloritic inclusions, sulphide	19768	230'6"	23219"	2'3"		3400	20	150	1.4		••••
			boxworks and malachite											
					· · · · · · · · · · · · · · · · · · ·									
				`										•••
														••••
		- 1												••••

COMPANY

DIAMOND DRILL CORE RECORD

PROSPECT Mutooroo Ridge

Hole N	0:			Location of S	lite:	Reduced	Level of	Site: _			
	d By:	 				1 V 1 + 1 1 V	of Hole:_				
Depth:				Date Complete	d:	 _ Dip of I	lole:				
Core R	ecovery:			Sampling By:		 Geologic	cal Loggin	g By:			
	11 T. A.	4. 4 (15%)	Commence of the Commence of th		Entertain State State			Algorithm	i i Maria		-11

	<u>a de la elegis</u>		LOGICAL LOG			ASS	AY	RES	UL	TS	T			
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft, Ins.	To Ft. Ins	Drill Width		Cu	Pb	Zn	Ag	Au	
232'9"	23910"	90%	Quartz magnetite and muscovite schist with	19769	232'9"	239'0" -	6'3"		2800	20	60	0.6		
			minor soft talcy material-minor malachite											
		1	Quartz veins 12" - 233'9"											
			6" - 236'0"				-							
			Limonite fillings on fractures.								<u> </u>			
239'0"	243 ' 7 "	100%	Gritty gms - sometimes felspathic with dissem-	19770	239'0"	243'7"	4'7"		1700	20_	48	0.4		
			inated magnetite. 6" quartz vein 243'-CBA 70°		100000	11.						ļ		
243 ' 7"	248'4"	100%	As above - quartz muscovite schist - irregular	19771	243'7"	248'4"			580	50	44	0.9		
			veins with soft black min with dull lustre -					ļ			<u> </u>			
			tenorite (?) - minor malachite veinless assoc.			<u> </u>			<u> </u>		ļ			
			Quartz vein with hematite inclusions 246'6"						<u> </u>					
248 ' 4 "	25212"	90%	Soft dark green vughy chloritic schist with	19772	248'4"	252'2"	3'10"		5600	30	390	1.7		ļ
			carbonate phenocrysts up to 1 min.											
252'2"	253 '2"	100%	As above	19773	25212"	253 ' 2"]	330	30	230	1.6	ļ	
25312"	257'0"	100%	Banded chloritic schist with chlorite bands	19774	253'2"	257'0"			150	30	170	1.8		
		100	separated by quartz felspar bands and boudins.			1 44						<u> </u>		
			Sch 55°											ļ
257'0"	261'0"	100%	As above-minor kinking	19775	257!0"	261'0"			84	24	240	1.9		
261'0"	264 ' 0"	90%	As above - quartz in definite boudins with	19776	261'0"	264'0"	3'0"		1.25	26	170	13.5		1
			shadows etc soft dark purple min- brownish					<u> </u>	<u> </u>			ļ		
14.3			black streak.						<u> </u>					
			Bornite (?)						<u> </u>					<u> </u>
264 '0"	265 ' 2"	100%	As above - quart irregular with abundant purple	19777	Polished	section								
			min (Bornite?)	19778	26410"	265 2"	1'2"	ļ	2.5%	26	220	4.5	ļ	
265'2"	270'0"	50%	As above grading to fine grained more massive	19779	265 2"	270'0"		<u> </u>	80	30	220	1.9	ļ	ļ
			chloritic schist with little banding. Sch 60°						1	ļ		ļ		
							1			1				

그림에게 되다니 이번 시간들은 경우 결혼하는	COMPANY	제임 전화 회원 회사 학자 모든 사람이 이번 기가 있다면 하다 되다.
마시 나 하겠다고 보다 바로 모르아 아르르르 얼마나다.	[관리] 김 시나 그리가 물리를 모르고 하고 하는데	
문문으로 나타가 얼마를 하는데 되어 되었다.	DIAMOND DRILL CORE RECORD	[생고하다 바라마다 나 그러워 하다 하다 그리지] 놀라
됐다. 그리고 하고 아픈 이번 속 나이는 살 말 했다. 그리	[레일] 왕의보다 그리는 그리고 그 얼마나요?	젊은 동주를 잃고 있지 않을 통일 사람이 보면 그는 집 말로 이 그
	PROSPECT Mutooroo Ridge	요일은 가게 있는데 마리하다 게 하는 아이들은 나라면 되는데
	and the transfer of the same and the same and	사는 소마리를 이번에 그 때 하는데 내용을 사람들 살이다.
Hole No.:	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:
Survey Data:		

			OGICAL LOG			ASS	AY	RES	UL	1 5				_
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Cu	Pb	Zn	Ag		
270'0"	274'0"	100%	Gritty chloritic schist with abundant heavy min	19780	270'0"	274'0"	4'0"		450	26	102	1.8		<u> </u>
274'0"	27815"	100%	Chloritic schist with quartz boudins	19781	270 ' 0"	278'5"	8'5"		170	30	180	1.9		
277'0"	278 ' 5"	100%	Gritty chloritic schists-well banded sch.60°	,,,										
278'5"	280'5"	100%	Soft rughy chloritic schist	19782	278'5"	280'5"	2 0		_800_	24	_220_	18		ļ
280'5"	281'8"	100%	Gritty chloritic schists	19783	280'5"	281'4"	0 9"		600	26	140	1.9		ļ
281'8"	284'0"	95%	Vughy chloritic schist - sch 45°	19784	281'8"	284'0"	2' 4"		520	36	230	2.6		
284'0"	288'0"	95%	Soft yughy chloritic schist - limonitic filling	19785	284'0"	288'0"	4 0"		500	24	220	2.7		
	150 454		in vughs. Carbonate quartz up to 1 mm.											-
			Limonitic veins and fractures sch.35° - some											1
			boxwork.											
288'0"	292'0"	98%	As above - sch.50°	19786	28810"	292'0"	400		1.200	28	220	3.3		
292'0"	297 ' 7"	95%	As above - sch 60°	19787	29210"	297 ' 7"	5'7"		1400	26	220	2.7		
297'7"	300,6"	100%	Fine grained chloritic sch.	19788	297'7"	300'6"	2'11"	<u> </u>	500	26	210	1.8		ļ
			with quartzitic interbands											ļ
			- mainly grms 299-300										l	
			- minor malachite on sch.etc.											
300'6"	306 2"	66%	Irregular chloritic schist with quartzitic inter-	19789	300'6"	306'2"	s'8"		2000	24	220	3.0		
			bands - core very broken		>									
30612".	311'9"	100%	Fine grained chloritic schist with minor carbon-	19790	306'2"	311'9"	s'7°		680	24	260	2.4		
			ate irregular interbeds schist and boudins CBA 65°			100								
311'9"	316'9"	100%	As above - origin uncertain as above	19791	311'9"	316 '9"	5'0'	<u> </u>	140	30	240	1.8	ļ	ļ
31619"	321'11"	100%	As above - sch 60°	19792	316'9"	321'11"	5. 2"		1500	26	280	3.3.		1_
••••		<u> </u>	Some banding with minor heavy mn.				ļ	ļ		ļ	ļ		ļ	-
321'11"	323'11"	100%	Chloritic schist lithic fragments with quartz	19793	321'11"	323'11"	2'0'		800	36	180	2.5	ļ.	
			carbonate matrix - flow top breccia		<u> </u>		ļ		ļ		ļ	ļ		ļ
	17 40								<u> </u>	<u> </u>	1		<u></u>	1_

COMPANY

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DIAMOND DRILL CORE RECORD

Mutooroo Ridge

가입니다 역사인들과 사건이 발생하는 사람이 모르고, 내가 나는 그들은	그렇지, 항송성이 독일지 않는 전인 원인 경험, 나는 다.
Hole No.: DDN M3 Location of Site:	Reduced Level of Site:
Drilled By: Date Commenced:	Bearing of Hole:
Depth: Date Completed: Core Recovery: Sampling By:	Dip of Hole: Geological Logging By:
Survey Data:	
C F O L O C L C A L L L O C	ASSAY RESULTS

100		GEO	LOGICAL LOG			ASS	AY	RE	UL	T S				
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width		Cu	Pb	Zn	Ag	וירו	
323'11"	32919"	100%	Chloritic schist with irregular lensoid quartz	19794	323'11"	32919"			1300	28	270	3.2		
			and carbonate						24.5					
329'9"	330'0"	100%	As above with minor malachite in veinlets and on	19795	32919"	330'0"	3"		6600	24	60	13.0		
			fractures.											
330'0"	333'11"	100%	As above	19796	330'11"	333'11"	3'		1300	22	290	3.3		
333'11"	338'0"	100%	Gritty chloritic schists - some granitic pebbles	19797	333'11"	338'0"	4'1"		1.25%	28	140	18.5		
			l cm diameter - some heavy mineral-magnetite?			100000								
			2" quartz vein 337'6" containing tourmaline and										.,	_
			possible sulphide - chalcocite											
38'0"	341 ' 9"	100%	Chloritic schist possibly with sandsized fragments	19798	338'0"	341'9"		4	1000	24	300	3.1		ļ
			of carbonate and quartz - minor quartz veining <1"						<u> </u>		<u> </u>			ļ.
41'9"	347'3"	100%	As above	19799	341'9"	347!3"			600	26	310	2.0		
47'3"	352'7"	100%	As above with pebbles of quartz-sch 65°	19800.	347!3"	35217"			110			1:7	×	ļ.
52'7"	357'8"	100%	As above	19801	352'7"	357'8"	ļ		ನೆನೆಂ			1.7	×	ļ.
57'8"	362'0"	100%	As above - Evidence of ship folding - possibly of	19802	357'8"	362'0"			এ১১		ļ	1.6	×	1
19.5%			original primary structures -folding of quartz vei	d								ļ		1
<u> </u>			mirrored in chloritic schists and folding not											1
			ptygmatic.									ļ		
62'0"	366 '4"	100%	Irregularly banded chloritic schists consisting	19803	36210"	366'4"	ļ		యం	ļ	ļ	1.6	×	1.
		1	of beds of pure chloride with interbeds with				1					<u> </u>		
			some quartz and felspar with possible carbonate.											
			Quartz veins - boudins			<u> </u>				<u> </u>			ļ	
			3" at 364'.							<u> </u>				1
			4" at 366'						<u> </u>		ļ	<u> </u>	<u> </u>	1
66'4"	371'4"	45%	As above - banding not as distinct - possibly	19804	366'4"	371'4"		ļ	126cc	<u> </u>	<u> </u>	4.5	×	1
			more disturbed - increasing in Si material and	<u> </u>				<u> </u>	_	<u> </u>	ļ	ļ		1
		:	felspar 370'.	<u> </u>				1	1			ļ		1
*	·· T··································						T .				1		1	

DIAMOND DRILL CORE RECORD

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PROSPECT Mutooroo Ridge

Hole No.:	DDH M3		 Location of Site:		Reduced Level of Site	:	
Drilled By:			 Date Commenced:		Bearing of Hole:		
Depth:Core Recovery:			 Sampling By:	化二氯甲基 新海伊马克拉克斯	 Geological Logging By	•	
Survey Data:		 	살림하는 아래,				

4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		GEOI	OGICAL LOG		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ASS	AY	RE	SULT	r s				
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	.Width	True Width	Cu.	Ag	Au			
371'4"	373'	100%	Chlorite quartz schist - chlorite occurs in	19805	371'4"	373 '	2'8"		ಬಿಲ್ಲ	40	×			
		- 19 to	distinct bands - sch 55°											ļ
373'0"	379'0"	100%	Gritty chloritic schists with some pebbles -	19806	373'0"	379'0"	6'0"		1:05	13.5	<u>×</u>			ļ
	 		sch disturbed (folding) traces of malachite -											
			some heavy mineral					ļ						ļ
379'0"	383'10"	100%	Irregularly banded chloritic schist with some	19807	379 0"	383'10"	4' 10"		760	જ ૩	×			
			gritty quartz fragments sch 60° - minor malachite							ļ		ļ	ļ	ļ
,			staining.					ļ				ļ	ļ	ļ
383'10"	3891 411	100%	As above	19808			ļ	<u> </u>	440	20	×		ļ	
389'0"	389'10"	100%	Fault zone - chloritic schists with pugh-fault	19809	389'0"	389'10"	0 10	.	170	18	×	ļ		
			plane 60°	1000			-	ļ				ļ		
389'10"	392'6"	100%	Gritty to pebbly chloritic schists	19810	1 1 1 1 1			<u> </u>	2.3∞	3.4	×			
392'6"	3971:0"	100%	As above	19811			ļ	ļ	48	1.1	_×_			
397'0"	402'6"	100%	Irregularly banded chloritic schists - some	19812	397'0"	40216"	5'6"		70	1.5	× .		.l	
			quartzitic bands - some gritty material sch.	<u> </u>						ļ	ļ		 	-
40216"	407'1"	100%	Vesicular meta trachyte quartz and carbonate	19813	402 ' 6"	407'1"	4 7		/2	17	×			-
			fillings in vesicles				-				ļ			
407'1"	410'1"	100%	As above	19814	407'1"	110'1"	3 0	-		16	1		-	
410'1"	412'7"	100%	As above	19815	410'1"	412'7"	2 6		44	1.7	I.X.			-
412'7"	417'7"	100%	Chloritic schist - appears to have gritty tenture	19816	412'7"	417'7"	5 °C	<u>"</u>	14	14	×			-
			with apparent quartz bands - tuffaceous?											
417'7"	421'10"	100%	Highly sheared meta trachytes-changes in sch and	19817	417'7"	421'10'	4 3		80	1.7		_		
			faults fault 418'. sch changes 60°-45°							_				
421'10"	425'10"		As above - fault zone 422'.	19818	421'10"	425'10"	4 0)" 	ميعو	14	, ×			
425'10"	429'10"		As above - small low angle faults	19819	425'10'	429'10"	4 0		130	1.5	×			
										-	-	-		
													_	

COMPANY			 	
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	고리는데 아이들을 때 그는데 어때를 걸다.	TOOL BECOME	이번 문장으로 발가로로 하는 방송을 다른 생기를 다는 것이다.
	10	DIAMOND DRILL CORE RECORD	0024
	[1] 그림 그림 그림 그림 그림 이 경기를 하다고 있다.	휴명하는 내일을 보고 있다. 내가 되고 있는 것이다.	전체로 발표하고 하고 내 게 되나는 지어 살이 하나라 다음
		PROSPECT	선물들이 가장을 가입하는데 하셨다면 다시 아이를 들었다.
	그림 교통하다 그렇게 되지 않는다. 하나 없다.	보이는 없었다고 말고싶다. 그 전략으로 하고 말라고	이번 물리 시민들이 점점이고 싶어요. 이번 네가는 기반 편하는
-13	Hole No.: DDH M3	 Location of Site:	Reduced Level of Site:
	Drilled By:	Date Commenced:	Bearing of Hole:
	Depth:	Date Completed:	Dip of Hole:
	Core Recovery:		Geological Logging By:
	취임 경우 아이들 아이들이 나는 사람들은 얼마나 되었다.	Sampting by	200010B1001 208B100 21 -
	Survey Data:		

	14.5	GEOI	LOGICAL LOG	1		ASS	AY	RES	UL	TS			,	_
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Ci.	179	Au			
429'10"	434'10"	100%	As above minor malachite monocline 430'. 1" long	19820	429'10"	434'10"	5' 0"		1000	2.9	*			
			sch parallel core											
434'10"	440'3"	100%	As above - some micro faulting with kinking.	19821	434'10"	440'3"	5' 5"		98	1.6	×			Ĺ
440'3"	447'8"	100%	As above											ļ
		 								1000				
			END OF HOLE											
											100			
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FORM 12 - 69

LONGREACH GROUP MANAGEMENT PTY, LTD.

LONGREACH METALS N.L.

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DIAMOND DRILL CORE RECORD

Mutooroo Ridge

Hole No.:	DDH M	14	L ocation of Site: 184E/103N											
Drilled E	Ву:А.	Д.Д.	Date Commenced: 27.2.71			Bearing of Hole: 140° Dip of Hole: -55°								
Depth:	713'0)."												
Core Reco	overy: ita:	7?	Sampling By: A.Edwards	<u> </u>	Geo	logical I	ogging	Ву:	A	Edwar	d.s			
			LOGICAL LOG	T		R R	SULTS							
From Ft. Ins.	To Ft. Ins.	Core Recov.		Sample No.		To Ins	Drill	True		İ				
01 0"	9' 0"	60	Greenish brown weathered chloritic schists											\prod
9' 0"	16'7"	100	containing lensoid quartz and carbonate. Chloritic schists as above with quartz and									ļ		-
			carbonate lensoid fragments.							 -		-		+
			- mem volcanics or grits?									\vdash		+-
			- often vughy - schiststy25° T.C.A											-
		 	- minor kink bands			3 3 4 3				7 7 8		-		+
16'7"	24'0"	100	Banded chloritic schists with quartzitic inter-								ļ			-
			beds - sometimes vughy and ferruginous - schistsfy	-				 	ļ	<u></u>	 			†
			very low angle (parallel core k#20'7", average					 			<u> </u>			1
			schistosity 25°T.c.A.					1			 		<u> </u>	
24'0"	52'6"	100	as above , schistyconst 25° T.C.A.				İ	1						
52'6"	57'10"		as above core very broken 55-57'10"											
יי10'' 57	62'0"	90%	as above - core very broken 60'				W 1/1							
62'0"	67'1"	90%	Ferruginous chloritic schists with quartzitic interbeds schists/yvaries from 25° at 63'0" to								1. 3.1			ļ
			90°. Core loss at contact-apparently faulted									ļ		
67'1"	75'4"	95	Fine quartz muscovite schist - commonly Fe											
			stained and with irregular limonitic veinlets.				s.;**							
			Irregular quartz veinlets - some possible sulphide											
	<u> </u>		remnants.				1,744							
75'4"	81'5"	100	as above											
81'5"	8710"	100	as above - schiststy25°-30° T. c. A.											
87'0"	9310"	100	as above									<u> </u>		
931011	9814"	100	Quartz muscovite schist within 2x2' quartz veins.											
	1	1	I to the second of the second	1	I	1	i		1 .	i	1	1	1	1

LONGREACH GROUP	MANAGEMENT	PTY.	LTD
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FODM	4	2		•	r

일이다는 하는데 맛있다면 보다는데 다시다는 모시네요...<mark>^^</mark>

DIAMOND DRILL CORE RECORD

0026

Hole No.:	DDH 1		Location of Site:		Red	uced Leve	l of S	ite:						
Drilled E	By:		Date Commenced:		Bea	ring of l	lo1e:							
			Date Completed:		Dip	of Hole								
Core Reco	overy:		Sampling By:		Geo	logical I	ogging	Ву:						
Survey Da	ıta:							Aleij.						
	 	G E O	LOGICAL LOG			ASSAY RESULTS								
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width							
98'4"	105 '7"	100	Bands of ferruginous and muscovite schists											
			within large quartz voins. No definite vein							2.7		1		
			boundaries.											
105'7"	119'4"		as above											
119'4"	123'4"	95%	Gritty quartz muscovite schist commonly ferruginou	9										
			with some sulphide boxworks - quartz vein (4") of											
			121'8" - possible shear zone 122'.		N my				1					
123'4"	1.27 '0"	95	As above - schistosity 30° 7, C.A.											<u> </u>
127 0"	131'4"	95	As above	1983									<u> </u>	
131'4"	138'0"	95	Large quartz vein containing irregular chloritic			1000							<u> </u>	<u> </u>
			and ferruginous inclusions and veins. Possible	ļ					ļ	ļ				ļ
	<u> </u>		fault at 135'. Core very broken with red			1 1 1			ļ	ļ		ļ		ļ
		ļ	mylonitic material.					ļ				ļ		ļ
138'0"	143'8"	100%	Gritty quartz muscovite schists with minor							ļ			ļ	
		ļ	siliceous bands (rhyolite?)			P-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				ļ	ļ	ļ	ļ	ļ
143'8"	149'4"	100	Quartz muscovite schist -gritty and sometimes				ļ			ļ				
			siliceous - contains minor pyrite. 6" quartz				ļ	ļ						
			veina 146'10" Irregular limonitic veinlets.				ļ							
149'4"	155'4"	100	As above							ļ	ļ			
155'4"	161'4"	100	As above with quartz vein 155'4"-157'4" other	<u></u>					ļ <u>.</u>				ļ	<u> </u>
			minor quartz veins < 1" commonly with limonitic											
			vughs											
161 '4"	167'0"	100	As above - sch 30°-35° 7 C.A								1	1		

As above - sch 20° at 170' with ‡"quartz vein

As above 2" quartz vein 173'10"-sch.30° T.c.4

parallel schists/i.e. 20°

167'0"

173'6"

179'0"

100

LONGREACH GROUP MANA	gement pt/	fik L	.TD
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FORM 12 - 6

COMPANY

0027

DIAMOND DRILL CORE RECORD

	DDII		Location of Site:	化基础设置 医大手间的 医电子 医二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基										
Drilled B	у:		Date Commenced:											
Depth:		<u> </u>	Date Completed:			of Hole:								
1.0		10 miles 2000	Sampling By:		Geo	logical L	ogging	Ву:						
Survey Da	ta:						<u> </u>	<u> </u>						
<u> 100 H2 H2</u>	1 12 12 12	G E O	LOGICAL LOG	 		ASS	AY	RE	SUL	TS				
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width							
179'0"	185'0"	100	Grey gritty quartz muscovite schist with patches	ļ		<u> </u>		ļ	ļ	ļ				
			of Fe staining usually around veinlets minor						ļ	ļ				
			pyrite occasionally present - sch. approx 35°tc4			Property of			ļ					
185'0"	191'3"	100	As above with 1½" quartz vein at 187'3"			1 4 (A + 4		ļ	ļ	ļ				
191'3"	197'0"	100	As above with 4" quartz vein at 191'3"							ļ				
			8" " " 19410"			1.2								
197'0"	204†3"	100	As above with quartz veins, at 3" at 199', and 1"											
			veins at 201'3",202', 202'6", 203'3" and 204'.							<u> </u>				
204'3"	208 ' 9"	100%	As above sch 30° 1" quartz veins 204'3", 208',207'											
208'9"	214'10"	100	As above - 6" quartz 212'6", other minor irregular		Land 199			<u> </u>		ļ				
			quartz veins						ļ	ļ			ļ	
214'10"	227'0"		As above										ļ	
227'0"	234'0"	100	Quartz vein with numerous chloritic and		1 44 44								ļ	
		100	mucaceous inclusions -alittle boxwork or Fe				<u> </u>			ļ	ļ	ļ		ļ
			staining										<u> </u>	
234'0"	240'6"	100	As above with some Fe staining, quartz very				ļ	<u> </u>		ļ	ļ			
1 - 1 - 1 - 1			fractured at 236'								<u> </u>		ļ	
240'6"	241'6"	100	Greenish grey gritty quartz muscovite schist	SNR	240'6"	241'6"	12"		ļ		<u> </u>	ļ	ļ	ļ
			sch.40° T.c. 4					1				ļ	<u> </u>	ļ
241'6"	242'0"	100	Gritty quartz muscovite schist as above with dis-	SNR	241'6"	242'0"	6"	ļ	ļ		ļ	ļ		ļ
			seminated heavy min, and minor malachite on schist						ļ			ļ	ļ	ļ
			planes				<u> </u>		ļ	<u> </u>		<u> </u>	<u> </u>	ļ
242'0"	247'0"	100	Greenish grey gritty quartz muscovite schist	SNR	242'0"	247 '0"	<u> </u>		ļ	-		 	ļ	
		ļ	with unidentified dark min (soft) disseminated			ļ			 	<u> </u>		ļ		
			thin core (chlorite segregations??)			1			1		<u> </u>	ļ	1	1

LONGREACH	GROUP	MANAGEMENT	PTY	LTD

FORM 12 - 69

COMPANY ____

0028

580

85

290

297 ' 9"

30210"

306 ' 9"

4' 3"

4' 9"

291 '2"

29719"

302'0"

19826

19827

19828

1.9

1.6

1.6

DIAMOND DRILL CORE RECORD

Hole No.:	DDH N	14	Location of Site:		Red	uced Leve	l of S	lte:										
Drilled By	/:		Date Commenced: Date Completed:		Bea Dip	ring of H of Hole:	o1e:											
Depth: Core Pess	rery!		Date Completed: Sampling By:		Geo	logical L	ogging	Ву:			<u> </u>							
										<u> </u>	- TA			1 1 1 1				
			LOGICAL LOG	LOG				ASSAY					UL	T S		$\overline{}$		-
From	То	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Cu			Ag	Au	<u> </u>				
247'0"	Ft. Ins.	96	Gritty quartz muscovite schist as above, limonitic	2				ļ				ļ						
241 0	274 10	1 70	yughs common 251'-254'. 9" quartz yein with					ļ	ļ			ļ		ļ				
			muscovite 247'0"		175.5					ļ		ļ						
254' 10"	268'0"	100	As above	31 30)					ļ		ļ			ļ				
268'0"	274'0"		As above with finer grounddinterbeds 272'.				ļ			ļ								
			Irregular quartzite fragments (original pebbles?)				ļ	ļ	ļ	ļ			ļ				
			Possible quartz veins? commonly associated with								ļ		ļ					
		-	pyrite. Possible shear zone 273'6"							ļ			ļ					
274'0"	280'0"	100	Pink and grey quartz muscovite schist with 12"					ļ		<u> </u>			ļ					
			quartz veins bore 275'6" 277'3" - sch. 30-35°T.C.	4.						ļ			ļ					
			flattens markedyby 279-280'.							ļ								
280'	285'6"	100	As above - fault zone 280'-12" quartz vein 281'						<u> </u>	_								
285'6"	291'2"	100	Greenish grey quartz muscovite schist with						-	 		4	 -					
			minor pyrite and very small segregations of dark							<u> </u>		-		-				
			green soft flaky min (chlorite?) - vughy 12"											-				

quartz vein located 286'6"

- sch. 35°TCA. As-above

100

297'9"

30210"

306.19"

Dark greenish grey chloritic schist with minor

quartzitic interbeds. Abundant disseminated pyrite (1% or >) and possible fine grained chalcocite.

Minor chalcopyrite - core becomes more vughy

with depth and % pyrite decreasing due to

weathering - schistosity 40-45°T.C.A

Greenish grey chloritic schists with pyrite and

minor chalcopyrite - boxworks, possible tenorite

0

29719"

30210"

COMPANY			100	
DOLD PRICE	_	 		

DIAMOND DRILL CORE RECORD

	PROSPECT	그들은 살이 되었다. 그 이 사람은 그렇게 되었다.		
Hole No.: DDH M4	Location of Site:	Reduced Level of Site	e:	
Drilled By:	Date Commenced:	Bearing of Hole:		a the Newson Fridding to
Depth:	Date Completed:	Dip of Hole:		
Core Recovery:	Sampling By:	Geological Logging By	y:	
Course Data	경기 가지 하는 사람들은 물로 가장하는 물로 살아보다 하는 것 같다.			

			LOGICAL LOG	ASSAY RESULTS										
From t. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu			Ag	Au	
30619"	313'0"	100	Soft grey sandy quartz muscovite schist grading	19829	30619"	313'0"	6'3"		230			0.7		
			to siliceous quartz muscovite schist with minor				J. 21							
			pyrite											
313'0"	318 ' 9"	100	Grey siliceous quartz muscovite schist with		313'0"	318'9"	1,100							
			minor pyrite sch - 45° \tau A.							- :				
318'9"	32019"	100	As above with pods of psilomelane (?)	19830	318'9"	320'9"	4'0"		3000			0.6	77.1	
320'9"	325'0"	100	Quartz muscovite schist as above		320'9"	32510"								
325 '0"	332'0"	20	As above		325'0"	332'0"								
332'0"	335'0"	33	Grey quartz muscovite schist with soft shaley	·	332'0"	335'0"								
			interbeds (?) largely washed away - er fault											
	24.5		zone?											
335'0"	341'8"	85	Pinkish grey to greenish grey with disseminated											
			pyrite and minor chalcopyrite											
341'8"	346'8"	80	As above		341'8"	346'8"								
346'8"	354'0"	80	Quartz muscovite schist as above becoming less		346'8"	354'0"								
			siliceous 354'											
354'0"	363'3"	30	Fault zone-reddish brown fine grained mylonite											
			containing grey blebs and shreds of dark grey											
			shale-possibly Mn Minor boxwork after 87 (?)											
			3" quartz vein 360'-360'3"											
363 ' 3"	370'0"	100	Sandy grey quartz muscovite schist with dis-											
			seminated sulphide (pyrite) - sch. 70° with						7					
			kink bands at 85° T.C.A.											
370'0"	378'3"	100	As above limonitic staining from veinlets. Mangan-											
			forous veins 374' limonitic boxworks.											
]						

PROSPECT .

DIAMOND DRILL CORE RECORD

	Hole No.:	DDH M4		Location of Site:	Reduced Level of Site:
42.5 80.5	Drilled By: Depth:				Bearing of Hole:
	Core Recovery:		-		Geological Logging By:
	Survey Data:		 -		

		GEO	LOGICAL LOG			ASS	AI	RES	, O L	1 0				1
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Cu		Ag	Au		
378 ' 3"	381 '9"	100	Quartz vein.			ļ								ļ
381'9"	389'0"	55	Core extremely broken up with 6" cavity at 3875						1,000					ļ.,
Segman.			Grey quartz muscovite schist with minor malachite										ļ. 	ļ
	1811		crystals in vughs.	43.	1 2 2 4									
389'0"	393'6"	100	Greenish grey and pink quartz muscovite schist	10 per 1						ļ				╀-
	12.5	14. 14. N. 1	becoming brecciated 391' with chloritic matrix.								ļ			
			Minor sulphide and pink felspar and quartz veining											ļ
393'6"	397'0"	100	Highly sheared dark grey chlorite muscovite	19831	393'6"	397'0"	3' 6"	ļ	1400	<u> </u>	1.6	0.70		-
			schist with limonitic yughs after sulphide.						ļ				ļ	
			disseminated pyrite >1%	19832	397'0"	400'0"	3′ 0″	<u> </u>	1300	ļ	1.1	0.38		-
397'0"	40010"	100	As above	200							ļ			-
00'0"	40619"	100	Pale grey siliceous quartz muscovite schist					<u> </u>	ļ	ļ	<u> </u>			-
10619"	414'0"	100	Pale grey greenish grey quartz muscovite schist						ļ	ļ	ļ	ļ		
			becoming chloritic with depth.							ļ		ļ	ļ	-
414'0"	421'4"	70	Pale greenish grey quartz muscovite schist with	19833	414'0"	421'4"	7 4	1	250	ļ	1.4	0.13	ļ	
			interbeds of chlorite schist - commonly pyritic -						ļ		<u> </u>	ļ	ļ	ļ
			>1% sulphide Sch.							ļ	<u> </u>	ļ	ļ	-
21'4"	425 ' 2"	40	Dark grey chlorite muscovite schists with dis-	19834	421'4"	425 2"	3′10	9	500		1.5	0.10		_
			seminated pyrite	1000					ļ			ļ	<u> </u>	-
125'2"	427'6"	95	Groy quartzite and quartz muscovite schists						<u> </u>	ļ			ļ	-
			with irregular chloritic interbeds - minor pyrite						<u> </u>		ļ			-
427'6"	432'8"	100	As above - sch 40° low angle kink bende not	19835	427'9"	432'8"	4' 11	<u> </u>	390	ļ	1.8	0.3	6	
			uncommon										ļ	- -
432'8"	435'10"	100	As above	1: 2			_			ļ		ļ	ļ	- -
***************************************									ļ	ļ		ļ		- -
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COMPANY

DIAMOND DRILL CORE RECORD

Hole No.:		I M4	Location of Site:			uced Leve ring of H								
Drilled By	/:		Date Commenced:			of Hole:	o.re							
Depth:			Date Completed:			of Hole: logical L								
			Sampling By:		Geo	Togical L	ogging	ъу						
Survey Dat	ta:							<u> 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>						
			LOGICAL LOG	-		ASS	A Y	R E	SUL	1 5	1	Γ		Γ
From Ft. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width		Cu		Ag	Au		
435'10"	444'0"	- 25	Siliceous quartz muscovite schist - minor			<u> </u>		ļ				ļ	ļ	ļ
			disseminated pyrite - reason for core loss											-
			unknown,				ļ						ļ	
444' 0"	450'5"	95	Greenish grey quartz muscovite schist with									<u> </u>	ļ	
	3.4		occasional chloritic interbeds minor pyrite					ļ		ļ	_	ļ		_
450'5"	454'6"	100	Quartz muscovite schist with chloritic interbeds									ļ		ļ
			up to 1", vughy zones 453' and 451'6" sch.70°							ļ		<u> </u>		
454'6"	459'0"	100	Quartz muscovite schist with chloritic interbeds	19836	454'6"	459'0"	4' 6"		470	ļ	1.2	_x		
			with blebs of pyrite and disseminated pyrite							ļ				
		†	minor limonite staining. Minor chalcopyrite											
459'0"	462'6"	100	As above				7, 25 1	ļ		1				
462'6"	46619"	100	As above possible disseminated bornite	19837	46216"	466 ' 9"	4'3"		700		1.7	x		
466 ' 9"	47319"	100	Chloritic schist with quartzite and quartz musco-	19838	46619"	473 ' 9"	7'0	ļ	940		1.6	x		
			vite schist interbeds, minor pyrite. Fe stained							-				+
			bands up to ½" across minor passible bornite?											-
173 ' 9"	477'6"		As above	19839	473'9"	477'6"	3'9'	`	620			x_		
477'6"	480'9"	95	Quartz_muscovite_schist_with_thin_irregular	19845	477'6"	480'9"	3'3	<u> </u>	540	-	11_4	×	_	
			chloritic bands. Byrite with possible minor											
			chalcopyrite sch. 75° ⊤.C.A.											
480'9"	481'5"	95	Soft friable chloritic schist fragments core	19846	480'7"	481'5"	0-10"		740	-	1.8	x	_	-
			very broken						_	-		-		
481 '5"	485'2"	95	Sandy grey quartz muscovite schist with chloriti	c 19817	481'5"	485'2"	3' 9	9	<u>560</u>	-		- -x	_	-
			interbeds abundant heavy min-rutile?					_				-		
1		1	0-1 750 No	1 .		`- I				1			1	. 1

COMPANY _____

0032

DIAMOND DRILL CORE RECORD

PROSPECT __

Hole No.: DDH M4	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:

Although the	10.00	GEOI	LOGICAL LOG		14 to 15	ASS	AY	RES	UL	T S				-
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins			Cu		Ag	Au		
485'2"	493 '0"	50	Sandy to gritty quartz muscovite schist with	19848	485 ' 2"	493'0"	7' 10"		1100		1.7	x		<u> </u>
			chloritic interbeds alternating with quartz		- 11212									
	1 1 1 1 1		chlorite muscovite schists pyrite 1%-11%.	100 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg 120 mg		Police .								
			Sch. 75*CAAbundant heavy min rutile		11000		12 12 12							
493'0"	498'6"	100	Gritty chlorite quartz schists - biotite	19849	493'0"	498'6"	5' 6"		2300		4.2	x		-
			segregations ½ mm across in chloritic bands											-
498'6"	503 ' 0"	100	Quartz chlorite muscovite schists chlorite tends	19850	498'6"	503'0"	4' 6"		1500	ļ	23	х.		ļ
			to occur as thin interbeds contains minor pyrite	ļ					ļ	ļ				-
<u> </u>			sch. 75°			ļ			ļ				ļ	-
503 ' 0"	508'3"	100	Gritty chloritic schists bornite (1/2-1%) biotite	19851	503'0"	50813"	5' 3"		320		2.1	x	ļ	ļ
	1.4.		with blebs of carbonate minor pyrite							4.7				
508'3"	512'7"	30	Gritty chloritic schist disseminated fine grained	19852	50813"	512'7"	4'4"		5000		14.5	x		<u> </u>
			chalcopyrite with some malachite											
512'7"	517'4"	95	Fine grained dark greenish grey chloritic schist	19853	512'7"	517'4"	4'9"	4.33	300		2.2	x		
			with numerous carbonate interbeds							- 1				
517'4"	521'4"	75	As above with increasing in carbonate veining.	10854	517'4"	521'4"	4'0"		1500		3.6			1
211 7	721 4			1 2023		121_3					1			T
521'4"	522'7"	100	Carbonate pale brown Chloritic schist with irregular carbonate blebs	19855	521'4"	522'7"	1" 3"		1200		2.1	x		T
							1							T
			and interbeds. Some quartzitic interbeds	19856	522'7"	52314"	9"		 -		17.0	х		Ť
522'7"	523'4"	100	As above becoming more definitely banded sch 55°	19090	722 (1,72,7 4			 		111.0			+
			with kink band malachite staining. Two possible				 		ļ					+-
			quartz pebbles 4" x 4"	<u> </u>			ļ		ļ		 			+-
523'4"	52719"	95	As above kinking 527'. Abundant dark min possibly	19857	523'4"	52719"	4'5"	ļ	1%,		18.0	_x	ļ	-
			rutile with biotite segregations malachite	ļ		ļ		ļ	ļ	ļ	 			
			staining.	ļ				ļ	ļ	<u> </u>	ļ			ļ.,
527 ' 9"	53212"	95	As above increasing in carbonate and quartz	19858	52719"	53212"	4 5	Million i	820		2.1	Ì	1	-

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DIAMOND DRILL CORE RECORD

Hole No.: DDN M4	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:
Survey Data:		사람이 있는 일하철이 그 사람이 가장이 그렇게 그 맛있는데 얼마나 됐다.

			LOGICAL LOG			ASS	AY	RES	UL	T S				-
From t. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu	Zn.		Ag	Au	
532'2"	535'8"		Cavity				1						1111	
535'8"	541'9"	65	Compact gritty chloritic schist with interheds	19859	53819"	541'9"	3'0"		330			1.8		
			of more friable material											
541'9"	546'10"	60	Gritty chlorite schist with numerous yughs after	19860	541'9"	546'10"	5′ 1"		340		- 13	1.7		
	144	100	carbonate		(Q) 14									
546'10"	547'10"		Cavity											
547'10"	550'10"	90	Core extremely broken up. Gritty chloritic schists	19861	547'10"	550'10"	3'0"		960			1.6	0.06	
			minor malachite low angle schistosities common					Village.			F		2.	
550'10"	557 '7"	75	As above	19862	550'10"	557'7"	6"9"		820			1.6	x	
557'7"	561 '7"	60	2'6" cavity 261-258'6". as above definite low	19863	557'7"	561'7"	4'0"		1300			1.7	0.12	
			angle fault 557'10"											
61'7"	566'2"	90	Well banded gritty chloritic schists minor mala-	19864	561'7"	566'2"	4'7"		1800			3.9	0.08	-
			chite on low fracture 565'9"-sch.50°											
56612"	571'6"	95	As above small monocline at 570' low schist (?)	19865	561 '6"	571'6"	10'0	1.	1300			3.12	0.12	
			3" quartz vein 571'6" with biotite, chlorite and	-	1.1	200								
disay.			manganese Min.											
71'6"	577'10"	100	Meta volcanics chlorite, biotite schists	19866	571'6"	577'10"	6' 4"	-	780	************		2.6	0.06	
			originally andesites irregular quartz veins			121.71								
			271' (3") 273'3" (12") quartz veins containing											-
			irregular chlorite segregations											
77'10"	597'4"	100	Meta andesites as above sch.60°	19867	577'10"	585'3"	ז' צ' ד		220			1.7	0.06	
				19868	585 ' 3"	589'3"	4' 0'		410			1.9	0:08	
				19869	589'3"	59313"	4'0'		260				0.06	
				19870	59313"	597'4"	4' 1"		120				0.06	Ĭ
					440									
					l	İ								-

COMPANY ___

DIAMOND DRILL CORE RECORD

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경기 기업을 되지 않는데 하나 하나 있다.	공업시간하다 보다 사고 등에 작가 되었다.	Reduced Level of Site:
Hole No.: DDH M4 Drilled By:	Location of Site: Date Commenced:	
Depth:		Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:

\$ 3 July 200		GEOL	OGICAL LOG			ASS	AY	RES	U L	1 2				
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Pt. Ins.	To Ft. Ins			Cu			Ag	Au	
97'4"	599'9"	100	Gritty chloritic schist some banding possibly	19871	597'4"	599'0"	1' 8"		400			2.1	0.06	
			tuffaceous. Carbonate and quartz in lensoid			10.10								
			fragments minor kinking perpendicular sch.											
9919"	605 ' 9"	100	As above	19872	5991911	60519"	6'0"		260		ļ	1.8	0.10	
05 ' 9"	614'0"	98	Greenish grey chloritic schists meta volcanics	19873	605 '9"	61410"	8'3"		98			1.5	0.10	
			and tuffaceous. Rocks grade from chlorite with				25.1							ļ <u>.</u>
			quartzitic schist interbeds to massive chlorite											
			schist. Commonly with lensoid patches of quartz						<u> </u>		<u> </u>			_
			and carbonate. Numerous veinlets of carbonate								ļ			
			and quartz usually parallel schist. Possible								<u> </u>			
			fine grained desseminated bornite											ļ
614'0"	621'0"	100	As above	19874	614'0"	621'0"	7'0"	ļ	20	ļ		1.5	0.10	-
521'0"	628'6"	95	As above with possible grit horizon 624'6"-625'7"	19875	621 '0"	628'6"	7'6"		2000)	ļ	4.7	0.12	-
	669'10"	88%95%	As above	19876	62816"	635 ' 6"	7'0'		100			1.7	0.10	-
52816"	1003.10	T		19877	63516"	641'0"	5'6"		110	2		1.6	0.10	-
				19878	641'0"	648'6"	7'6"		21.0			1.6	0.08	-
				19879	648'6"	65613"	7'9"		120	2		1.6	0.06	
		<u> </u>		19880	656'3"	66217"	6'4		190)		1.7	0.04	1.
				19881	662'7"	669'10"	7'3'		8/			1.6	0.14	
669'10"	677'0"	100%	As above increasing in vescicles -CBA 80°	19882	669'10"	677'0"	7'2"		42	2		1.7	0.06	_
677'0"	717'0"	100%	As above	19883	677'0"	685'0"	7'0	"	72	2		1.7	0.06	_
	1	100/		19884	68510"	692'0"	7'0'	y	36			1.5	0.08	<u>.</u>
				19885	692'0"	700'0"	80	4	. 64			1.5	0.10	<u>}</u>
				19886	700'0"	706 ' 9"	6'9	q	52	2		1.5	0.08	3
				19887	706101	714'9"	8'0	,,	54	1		1.5	0.08	3
				19888		717'0"	2'3	и	16	50		4.7	0.06	, [
			END OF HOLE				-1							Ţ

LONGREACH METALS N.L.

DIAMOND DRILL CORE RECORD S.M. MUTOOROO RIDGE PROPSECT

DDH M5	Location of Site: _	101N/188E	Reduced Level of Site:		
Drilled By: ADD	Date Commenced:	2.4.71	Bearing of Hole:	140°	-
Depth: 501'3"	Date Completed:	25.4.71	Dip of Hole:	55°	-
Core Recovery:	Sampling By:	A.C.Edwards	Geological Logging By:	A.C.Edwards	
Survivor Potes: 10', 152', 310'	공기가 하시 하시 하나 되었다.				

			LOGICAL LOG			ASS	AY	RES	UL	1 5				
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu		Ag	Au		
0'	10'6"	95%	NX core											
day kilon			Pink to grey quartz muscovite schist, commonly										es, te	
			Fe stained numerous small limonitic veinlets.	14.1 Tu	1982		1 10 1			4.				
			Gossanous limonite after sulphide. Quartz											
			veins up to 12" often carrying pyrolusite.											
			Heavy min magnetite QMS varies locally quartzite.											
10'6"	15'0"	90%	As above - sch 35°											
15'0"	20'0"	100%	As above											
20'0"	2510"	80%	As above contains 1' cavity											
25'0"	35'3"	100% 96%	As above											
35 ' 3"	40'6"	95%	As above core very broken											
t0'6"	45'0"	100%	As above - sch 35°											Γ
15'0"	50'0"	100%	Quartz muscovite schist as above										,	
50'0"	80'0"	100%	As above				100	13. 14.						
3010"	84'9"	100%	As above with 6" band weathered greenish grey		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
			chloritic schist											
34 ' 9"	90'0"	100%	QMS as above											
90'0"	110'0"	100%	AS above											T
110'0"	115'0"	100%	Quartz muscovite schist as above											
115'0"	170'8"	100%	As above 120'-125' sch 40°		1 17									Ī
70'8"	172'0".	100%	As above with malachite staining	19889	170'8"	172'0"	1'4"		820		0.3	¥		1
72'0"	175'6"	100%	As above											
7516"	180'0"	100%	Quartz muscovite nehist											
8010"	199'10"	100"	As above						[
99'10"	20) '4"	100	As above with malachite staining	19890	199'10"	201 '4"	1'6"		11900		0.2	×		Ī
	1.75 i A. m		LORN MARKEN BLACK JULIARUS LAN BERKAMARK				Ī		1	1		Ī	1	

DIAMOND DRILL CORE RECORD

맞게 경찰, 급하다 마리는 이 보인함도	PROSPECT	불어보다 전 회사에 하고 하는데 그들도 하지 않다.
강경, 회의 (1886년 1882년 - 1984년 - 1984년 1882년 - 1984년 - 1984년 - 1984년 - 1984년 - 1984년 - 1984년 - 1984년 - 1984년 - 1 1984년 - 1984년	하는 경기 없는 얼마는 것 같아. 얼마는 이 어디를	##현실 회원 경우 ## (1912년 H. 1914년 H. 1914년)
Hole No.: DDH M5	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:
Survey Data:	스 하는 살도 하지만 역사를 통하는 것이다. 전환	등장 경기를 들었다고 하는 일이 하는 것이 되었다.

GEOLOGICAL LOG			ASSAY RESULTS											
From	To Ft. Ins.	Core Recov.	D'E S'CRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True Width	Cu		Ag	Au		
201'4"	206'0"	100%	QMS minor spots of malachite on fracture surfaces	19891	201'4"	20610"	4' 8"		480		0.2	×		<u> </u>
206 ' 0"	210'0"	100%	As above malachite on cross fractures and assoc-	19892	206'0"	210'0"	4' 0"		2950		0.3	0.06		
Barrier A.			iated with limonitic voinlets - sch 60° 1-1% Cu-			13.00			4 4					
210'0"	215'0"	100%	As above with malachite ½-1% Cu	19893	210'0"	215'0"	5' o"		3000		0.2	×		
215'0"	218'3"	100%	As above ½-1%Cu	19894	215'0"	218'3"	3'3"		2700		0.6	V		ļ
18'3"	225 ' 0"	100%	Qms - sch 60°	19895	218'3"	225 '0"	6'9"	100	350		0.3	¥		
25 '0"	23010"	100%	As above with minor traces of malachite	19896	225 '0"	230'0"	5' 0"		1120		0.1	٧		
30'0"	255 ' 2"	100%	QMS as above with minor malachite numerous			40,60						<u> </u>	<u> </u>	
			ferruginous patches some boxworks	19897	230'0"	235'0"	5' 0"		5000		0.1	×		
55'2"	260'0"	100%	As above minor malachite sch 60%	19898	255'2"	260'0"	4 10"		200		0.2	×		
60'0"	275 '0"	100%	Quartz muscovite schist as above	19899	260'0"	265'0"	5'0"		440		0.3	0.34		
75'0"	280'0"	100%	As above sch 60°	19900	275'0"	280'0"	5' 0"		320		0.2-	k		
80'0"	285 '0"	100%	Highly sheared and in places brecciated quartz	19901	28010"	285 '0"	5'0"		200		0.8	0.06		1
			muscovite schist with some chloritic beds commonly						<u> </u>			<u> </u>		1
			limonitic. Contact of quartz muscovite schist					ļ						1
			and volcanics					<u> </u>					<u> </u>	
85'0"	290'0"	100%	Greenish grey chloritic schists derived from	19902	285'0"	290'0"	5'0"		26	<u> </u>	1.0	×		1
			andesites or trachykes commonly with vesicles				ļ	<u> </u>	ļ					-
			filled with carbonate quartz quartz and carbonate					<u> </u>	ļ			ļ <u>.</u>	ļ	
			veins common. Minor heavy min magnetite or	ļ				ļ	ļ	ļ			ļ	-
			rutile (285'-290')						<u> </u>	ļ				1
90'0"	38510"	100%	As above						ļ	ļ		ļ	<u> </u>	4
85'0"	390'0"	100%	Chloritic schist meta volcanics sch 60°					ļ	ļ	.ļ		<u> </u>	ļ	-
9010"	44010"	100%	As above					1		ļ			ļ	4
							4						ļ	
	1			1					1		1			1

COMPANY

DIAMOND DRILL CORE RECORD

			PROSPECT											
	DDH	M5	Location of Site:		Red	uced Leve	1 of S	lte:				., 20,		
note No.:			Date Commenced:	and the second										
	The second second		Date Completed:			of Hole:								
			Sampling By:			logical L								
	ta:						\$654 <u>1.</u> 4					dist.		
			OGICAL LOG			ASS	ΑY	RES	ÚĽ	r S				
From	To	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Fr Inc	Drill Width							
440'0"	Ft. Ins.	% 100%	Highly sheared metavolcanics with numerous	1	110						4.7			
	1442 0	100%											and the	
			quartzitic interbeds. Some elongated quartz											
		90%	and carbonate vesicles sch.65°			1000								
145'0"	465 '0"	100%	As above			<u> </u>	<u> </u>	ļ						ļ
465 '0"	470'0"	100%	Machine Masonite chloritic schists meta volcanics							11.50				
			carbonate and quartz infilled vesicles		1702									<u></u>
170'0"	501 '3"	90%0%0%	As above			1								
						1.0							1	
	 					, at								
			END OF HOLE			1	-							
		ļ	END OF HODE	1	 									
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COMPANY Longreach Motals N.L.

DIAMOND DRILL CORE RECORD

Mutooroo Ridge

Hole No.: DDH M6	Location of Site: 172E/96N	Reduced Level of Site:
Drilled By: A.D.D.	Date Commenced: 27.4.71	Bearing of Hole: 140°
Depth: 756'9"	Date Completed: 9.5.71	Dip of Hole: 550
Core Recovery:	Sampling By: A.C.Edwards	Geological Logging By: A.Edwards
Survey Data: 31 8t 557'8"		여러 하나 사고 있다. 한 대답이 한 번째 보고하는 모양이다.

1987			OGICAL LOG	ASSAY RESULTS										
From Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True Width						
0'	10'	60	Bx casing		4					100				
			Weathered fragments of chloritic schist.				13							
10'	15'	95	Dark greenish grey medium grained chlorite			44.5	1 - 1				1			
			biotite with possible felspar phenocrysts.											
			Quartz veins up to 3", commonly with limonitic			er grasi								
			boxworks.											
15'	30'3"	95	As above - sch 35° becoming banded i.e.											
			chloritic bands with more quartzs felspathic								4			
			interbeds											
30'3"	32'4"	100	As above							3.7				
321411	36'6"	95	Quartz vein with chloritic inclusions										64 juli	
36'6"	42'0"	100	Banded dark greyish green and grey chloritic	174						181		1.2		
			biotite schists. Some vughs after carbonate	1 2 1										
			Sch.20° Kink bands right angle core.											
42'0"	57'0"	100	As above sch 5-10°											
57'0"	62'0"	95	As above									: :		
62'0"	66'11"	95	As above grading to chloritic schist with											
			elongate quartz carbonate vesicles											
66'11"	72'2"	95	Highly sheared and breceiated chloritic schist	190 a										
			with quartz veining.	<u> </u>										
7212"	76'2"	95	As above - fault zone.											
6'2"	9215"	100	Massive dark greenish grey chloritic schists											
			(motasediments) with some irregular quartz and								<u> </u>			
			carbonate infilling remnant vesicles-irregular											
			quartz veins - sch.309											
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COMPANY ____

PROSPECT ___

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DIAMOND DRILL CORE RECORD

Hole No: M6	Location of Site:	Reduced Level of Site:
Drilled By:	Date Commenced:	Bearing of Hole:
Depth:	Date Completed:	Dip of Hole:
Core Recovery:	Sampling By:	Geological Logging By:
Survey Data:	등로 하다 이 글로짓말했다. 나는지만 된 점점을 다 그	나는 사람들은 사람들이 가는 사람이 가지를 가는 것이다.

	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		LOGICAL LOG	ASSAY RESULTS										
From	To Ft, Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Çi _m	ZA	Ag PPM	Au PPM		
92'5"	124'4"	100	Medium grained chloritic schist possible											
		7	felspar phenocrysts (similar to schistose micro-			546								
			diorite)-occasional bands of vescicles.											
124'4"	149'0"	100	Highly vesicular greenish grey metavolcanics-							ļ				
	ļ		vesicles range 4"-1/16" sch.30°											ļ.
149'0"	158'3"	100	As above-minor malachite staining within	19903	149'0"	153'3"	4' 3"		300	240	1:5	×		L
			chloritic rich band at 151'9"											
15813"	183'8"	100	Medium grained chloritic schist - no vesicles-											
			tending microdiorite sch. poorly developed at 45°				1							
183'8"	199'0"	100	As above grading to fine grained chloritic schist									<u> </u>		
			with some quartz and carbonate.											
199'0"	204'2"	100	As above with increasing infilled vesicles						100					
			(quartz and carbonate)											
204 ' 2"	20810"	100	Fine grained banded chloritic schist with											
			irregular quartz carbonate particles.		(and the		2.50							
208'0"	214'4"	100	Microdiorite (medium grained)chloritic schist											I
			described above).											I
214'4"	219'4"	100	As above becoming vesicular seh 35°											
21914"	224'4"	100	Medium grained chloritic schist with irregular				<u></u>		<u>.</u>					1
			quartz and carbonate particles some handing.									ļ		L
******			Grading to microdiorite.											
224 ' 4 "	232'4"	100	Microdiorite.											
232'4"	245'10"	100	As above with abundant quartz and carbom te											L
******************			blebs.											L
245'10"	26615"	100	As above with irregular quartz stringers.				<u> </u>					ļ		Į.
							<u> </u>						37.	
								•			1			

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DIAMOND DRILL CORE RECORD

		and the second	Location of Site:		Table 3 1 1 1	uced Leve						1.5	
			Date Commenced: Date Completed:			ring of H							
		the second of	Date Completed: Sampling By:			of Hole:			20.0				
	100		South High 19.	varia Na	Geo	logical L	okgrug	Бу					•
	77.77		LOGICAL LOG	1		ASS	ΔV	PF	S U L	ጥ ፍ			_
From Ft. Ins.	To Ft. Ins.	Core Recov.		Sample No.	From Ft. Ins.	To	Drill	True					-
266'5"	287'8"	100	Medium grained chloritic schist with some fine									1	
			grained chloritic schist. Some quartz veining									T	-
			and minor brecciation sch.45° infilled vesicles			43.74							:
			common.									1	•••
287'8"	291'10"	100	As above fault 286'7"	2.3								1	-
291'10"	305 '2"	100	Banded fine to medium grained chloritic schists										
NA SE			with some quartz carbonate infilled vesicles-										
3			sch.30°										-
305'2"	314'9"	100	Medium grained chloritic schists with irregular										-
			quartz particles.										
314'9"	319'9"	100	Medium grained chloritic schist with fine grained										
			chlorite and biotite interbeds.										
319'9"	324'10"	100	Fine grained chloritic schist with numerous	1									
			quartz veins.										
324'10"	330'0"	100	Medium and fine grained chloritic schist with										
			minor irregular patches of chlorite.						<u> </u>	<u></u>			
330'0"	346'0"	100	Medium grained chloritic schist with irregular								··· ··· ···		•••
			quartz blebs and veinlets. Fault 335'6"										
346'0"	36516"	100	Fine grained chloritic schist with quartzitic									<u> </u>	
			interbeds with numerous irregular quartz veins.										
365'6"	370'0"	100	Dark greenish grey medium grained chloritic schist						ļ			<u> </u>	•••
			with numerous lensoid carbonate fragments and				ļ					ļ	
			rregular carbonate stringers some of which contain	n					<u></u>				•
			ninor sulphide possibly chalcopyrite.	ļ	1 1		ļ		<u> </u>			ļ	
									<u> </u>	ļ		<u> </u>	
				1	<u></u>								

COMPANY

PROSPECT .

and stringers. Quartz veins up to 2" not uncommon.

As above - minor smears of chalcopyrite/pyrite

and fractured faces and on quartz vein ?

As above-clayfilled fault zone 45°

As above - minor chalcopyrite

577'0"

597'0"

607'0"

59710"

607101

612'0"

100

100

DIAMOND DRILL CORE RECORD

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and the second second				Geo	logical L	ogging	Ву:								
ta:								<u> </u>							
		LOGICAL LOG													
To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Cu	Ag	Au					
375'0"	100	As above schist highly fractured becciation in		100											
		carbonate matrix. Few vesicles.													
385'0"	100	As above minor fracturing no brecciation.						200			1				
405'0"	100	As above with minor fine grained chlorite inter-													
		beds. Fault at 388'4" 25° sch.45°													
410'0"	100	As above 12" quartz veins 405'													
413'9"	100	Medium grained chloritic schist microdiorite													
		patches rich in biotite.													
417'0	100	Medium grained chloritic schist with numerous													
		fine grained chloritic interbeds quartz and						ļ							
er jegendi.		carbonate veining and blebs.													
427'0"	100	As above - sch.40°													
442'0"	100	As above clay filled fault 432'-432'9"													
447'0"	100	As above mainly medium grained chloritic schist						<u> </u>					ļ		
		with biotite rich bands.	2.4												
457 '0"	100	As above - 12" quartz vein 447'													
467'0"	100	As above numerous quartz carbonate veins up to 3"						<u> </u>				1.70			
502'0"	100	As above with numerous infilled vesicles	ļ						ļ						
577'0"			ļ					ļ	ļ		ļ				
		banded contains some quartz and carbonate vesicles	1				L					L	1		
	y:	y:	y: Date Commenced: Date Completed: Very: Sampling By: ta: GEOLOGICAL LOG TO Recov. Ft. Ins. % DESCRIPTION 375'0" 100 As above schist highly fractured becciation in carbonate matrix. Few vesicles. 385'0" 100 As above minor fracturing no brecciation. 405'0" 100 As above with minor fine grained chlorite interbeds. Fault at 388'4" 25° sch.45° 410'0" 100 As above 12" quartz veins 405' 413'9" 100 Medium grained chloritic schist microdiorite patches rich in biotite. 417'0 100 Medium grained chloritic interbeds quartz and carbonate veining and blebs. 427'0" 100 As above - sch.40° 442'0" 100 As above mainly medium grained chloritic schist with numerous with biotite rich bands. 457'0" 100 As above mainly medium grained chloritic schist with biotite rich bands.	y: Date Commenced: Date Completed: Very: Sampling By: ta: GEOLOGICAL LOG Core Recov. Ft. Ins. Z DESCRIPTION As above schist highly fractured becciation in carbonate matrix. Pew vesicles. 385'0" 100 As above minor fracturing no brecciation. 405'0" 100 As above with minor fine grained chlorite interbeds. Fault at 388'4" 25° sch.45° 410'0" 100 As above 12" quartz veins 405' 413'9" 100 Medium grained chloritic schist microdiorite patches rich in biotite. 417'0 100 Medium grained chloritic interbeds quartz and carbonate veining and blebs. 427'0" 100 As above - sch.40° 442'0" 100 As above mainly medium grained chloritic schist with numerous with biotite rich bands. 457'0" 100 As above numerous quartz vein 447'. 467'0" 100 As above numerous quartz carbonate veins up to 3". 502'0" 100 As above with numerous infilled vesicles.	Date Commenced: Bea	Date Commenced: Bearing of No. Date Completed: Dip of Hole:	Date Commenced: Bearing of Hole:	Date Commenced: Bearing of Hole: Date Commenced: Dip of Hole: Date Completed: Dip of Hole: Dip of	Date Commenced: Bearing of Hole: Date Commenced: Date Completed: Dip of Hole: Dip of	Date Commenced: Bearing of Hole:	Date Commenced: Bearing of Hole: Date Completed: Dip of Hole: Dip of Ho	Date Completed: Dip of Hole:	Date Commenced: Bearing of Hole: Dip of Hole:		

19904

19905

19906

597104...

602'0"

60710"

5'0"

5'0'

5່ ໆ"

..60510n-

60710"

612'0"

જેઇ

90

100

400 1.6 X

410

400 1.8

18 X

			PROSPECT	CORD							004	3		
Hole No.:		M6	Location of Site:		Red	luced Leve	1 of S	ite:						
Drilled E	3y:		Date Commenced:			ring of E								
Depth:			Date Completed:			of Hole:								
Core Reco	very:		Sampling By:	<u> </u>		logical L								المت
Survey Da	ta:													
			LOGICAL LOG	1				7						
From Ft. Ins.	To Ft. Ins	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True Width	Com	Zn PPM	Ag	Au		
612'0"	617'0"	100	Medium to fine grained chloritic schist with	19907	612'0"	617'0"			ನಿಂ	370	1.6	×		
			occasional bands of vesicles filled with quarts—and carbonate. Numerous stringers of quartz—											
			and carbonate sch.60°. Minor chalcopyrite											
			and pyrite on fractured faces.											
617'0"	622'0"	100	As above with minor sulphide.	19908	617'0"	62210"	5' 0"		60	410	1.6	×		
622 '0"	637'0"	100	As above with minor traces of sulphide.	19909	62210"	62710"	5'0"		240	440	ಬಿಂ	×		
637'0"	662'0"	100	As above quartz and carbonate veins up to 6"											ļ.,
66210"	682'0"	100	As above portions of core very broken shear zones											
			irregular quartz veins.									ļ!		
682'0"	687'0"	100	As above possible minor sulphide	19910	682'0"	687'0"	5'0"		76	560	15	×		<u> </u>
687'0"	692'0"	100	As above chalcopyrite on fractured faces	19911	687'0"	692'0"	5' o"		502	40G	14	×		
69210"	697'0"	100	As above trace sulphide only	19912	692'0"	697'0"	5' o		34	660	14	×		ļ
697'0"	702'0"	100	As above	19913	697'0"	702'0"	5' O		1000	440	16	×		
702'0"	707'0"	100	Medium to fine grained chloritic schist with	19914	702'0"		5'0	<u> </u>	//0	540	1.4	×		
			quartzitic pods and irregular carbonate blebs	<u> </u>					<u></u>					
			thin irregular quartz and carbonate veins.					<u> </u>	<u> </u>					_
707'0"	722'0"	100	As above with possible traces sulphide	19915	707'0"	712'0"	5' o		602	3/0	1.3	×		
		ļ		19916	712'0"	717'0"	5' o		60	40%	1.5	×		
/22"0"	72770"			19917	717'0"	722'0"	5'0		1620	400	1.5	× -		
	121.0"	ļ	As above core with broken 723'-724' with carbonate	19918	722'0"	727'0"	5'0.		60	క్షాం	1.6	×		_
		ļ	lined vughs.	19919					ઝક	680	1.4	_ <u>×</u>		ļ. <u>.</u>
727'0"	756+9"	100	As above occasional traces of sulphide only.	ļ										_
		ļ								ļ				ļ
	ļ	ļ	ENDOFHOLE	<u> </u>			ļ		ļ	ļ				ļ
	1	1	1 control of the cont	The second	1	1		1 .	1 1	1	1 .	. '	i	1

COMPANY Longreach Metals N.I.

DIAMOND DETLE CODE DECORD

	DIAMOND DRILL CORE RECORD	14 74
		JAK.
PROSPECT	Mutooroo Ridge	

Hole No.: DDH M7	Location of Site: 102.50N/180E	Reduced Level of Site:
Drilled By: A.D.D.	Date Commenced: 11.6.71	Bearing of Hole: 140°
Depth: 957'6"	Date Completed: 2.6.71	Dip of Hole: -60°
Core Recovery: 100%	Sampling By: A.C.Edwards	Geological Logging By: A.C. Edwards
Survey Data: 01-600 2401 550 4901 400	040, 200	선생님은 아이들은 사람들이 그리고 하는 것이 되었다면 하셨다.

<u> </u>			LOGICAL LOG	ASSAY RESULTS										
From	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Cu	Ag	Au PPM			
01	10'	45	White to pale grey, sandy to gritty quartz											
			muscovite schist. Some red brown Fe.staining			11.15								
			Sch.30°. Some vughs, probably after sulphide											,
			Limonite pseudomorphs after magnetite common.	100										
10'	40'	100	As above			4,41		ý , ú, · ·						
401	501	100	As above - core brecciated and fractured at 49'											
501	60'	95	52'6"-55'0" chrysocolla on fractures and in small	19575	50'	55'	5'0		640	0.5	×			
	No defice.		veinlets. Core other side fractured (shears?)	19576	55 '	60 '	5' 0			0.5				
601	1005	100	As above											
100'	120'	100	As above sch.15°-20°								- 1			
120'	160'	100	As above some brecciation 127'4"-128'0" yughs											
			with gossans - Fe staining common.											
160'	170'	100	As above with 18" quarte vein from 160.											
170'	180'	100	As above core very vughy at 173'6"-175'6" with											
			gossan-sch.30°							Ī				
180'	190'	100	As above 12" quartz vein 188'											
190'	200'	100	As above 18" quartz vein.											
2001	2201	95	Pink and pale greenish grey quartz muscovite schis											
			- sch.35°											
220'	230'	95	Quartz muscovite schist becoming Fe stained.											-
			Gossanous vughs probably after pyrite very common.											
			Minor chlorite interbeds.											
י230	233'	100	Quartz muscovite schist with increasing muscovite	19577	230'	233	3'0"		230	05	×			
			and chlorite, poikiloblastic biotite flakes up to											
			1 mm							-				
***************************************				74 TAT 1 SATE THAT SATE SATE										
			E against and any gain and you can go an any contract the contract and any	[†	†			f		4	···	

COMPANY			- 10		-
المشتورة أتشر بمراجر					0.00

DDOCDECT

Chlorite, biotite quartz schist with numerous

Bands of chloritic schist

and fractured faces.

vughs and pits probably after sulphide -sch.40°

As above core broken 263'4"-265' with limonite

0044

×

Hole	e No.:	м7			Location of	Site:		Red	uced Leve	1 of S	íte:					
Dril	lled B	y:	<u></u>		Date Commen	ced:		Bea	ring of H	ole:					 	
Dept	th:					ted:			of Hole:							
Core	Reco	very:			Sampling By	<u> </u>		Geo	logical L	ogging	Ву:				 	
Surv	ze y Da	ta:	·····											1753		
		- 27	GEO	LOGICAL	LOC				ASS	ΑY	RE S	SUL	T S			
	From Ins.	To Ft. Ins.	Core Recov. %		ESCRIPTI	0 N	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Cu	\$ 1. J.	Au		
2	331	233'6"	100	Chlorite bioti	te schist with	abundant poikilo-	19578	2331	233'6"	3'6"		પ્રક∞	જે ૦	0 /3		:
L				blastic biotit	e commonly in r	ough bands Minor					in the					تندی
	1 1 1 4									San I						
2	33 '6"	237'6"		Quartz chlorit	e muscovite sch	ist with some	19579	233'6"	237'6"	4' 0"		440	1.1	0.06		
				poikiloblastic	flakes of biot	ite. Fe staining										
						Minor sulphide.										

19580

19581

237'6" | 242'6"

24616"

24216"

4'0"

Quartz_muscovite_schists_commenly_Pe-steined___ with limonitic vughs with gossans after sulphide. Fe veinlets sch.30° 250'0" 260'4" 100 As above

24216"

24616"

250'0"

2651

100

100

As above

23716"

24216"

246'6"

260141

6' cavity

265 '0" 27110" Minor fefruginous rubble. 271 '0" 275 ' 3" 95 Quartz muscovite schist as above commonly with Fe

on fractured faces 275 '3" 281'9" As above - sheared from 281'0"-281'9" 281 '9" 287'6" o' cavity - minor ferruginous quartz muscovite

287'6" 291'9" Chloritic schist with numerous Fe veins, minor pyrite occasional specks of malachite.

blastic flakes of biotite common.

4' 3" 19582 287'6" 291 '9"

39CO ×

PROSPECT

0045

Hole No.:		M7	Location of Site:			uced Leve								
Drilled B	y:		Date Commenced:											
Depth:			Date Completed:		Dip	of Hole:								٠
Core Reco	very:		Sampling By:		Geo	logical L	ogging	Ву:						
Survey Da	ta:		<u>다 하나 보는 바로</u> 하는 사람들이 가는 것이 되는 것이 되는 것이다.											
			LOGICAL LOG			ASS	ΑY	RES	S U L	T S	,			
From Ft. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu ppr,	A9 ,28.5	Au man			
29119"	297'8"	98	As above - less chloritic between 291'9" and	19583	291'9"	297'8"	5' 11"		2000	જ.હ	0.07			
			292'9" and 296'11"-297'8"											
297'8"	30510"	95	Pale grey pink quartz muscovite schist with											
			limonitic veinlets and Fe.stainings. Vughs with			4.77								
			limonite after pyrite common minor fresh pyrite.			the second								
V 35			Brecciated zone with quartz vein 301'.											
305'0"	310'0".	100	As above									1		
310'0"	315 '4"	100	As above fresh pyrite common up to 1% in patches.			<u> </u>								
315'4"	345'0"	100	As above pyrite and remnants are patchy.											
345'0"	350'0"	100	As above poikiloblastic flakes of biotite	19584	345'0"	350'0"	5' 0"		1800	0.5	×			
			increasing in sulphide with some chalcopyrite											
350'0"	355'0"	100		19585	350100	35510"	61 0"		3.	0.4	J			1

19586

19587

35510".

360'0"

360'0"

365 0" 5' 0'

5' 0"

0.5

1100 0 3

small specks of chalcopyrite sch.40° 365'0" 380'0" 100 As above 380'0" 38510" 100 As above core more Fe. stained and broken pits after sulphide, no fresh sulphide observed.

with minor chalcopyrite

8510" 400'0" 100 As above 400'0" 405'0" 100 As above fractured quartz vein 403' 405 '0" 410 0"

some pyrite

3551011

860 10th

36010"

3651011

100

100

As above with limonite gossan.

Quartz muscovite schist with minor biotite and

Quartz muscovite schist minor pyrite with a few

COMPANY			1.			
COLUMNICA	 	 ******		 	 -	***

0046

Hole No.:		М7	Location of Site:		Red	luced Leve	el of S	ite: _						
Drilled B	y:		Date Commenced:		Bea	ring of l	lole:							
Depth:		·	Date Completed:			of Hole								
Core Reco	very:		Sampling By:		Geo	logical 1	Logging	Ву:						
Survey Da	ta:													93
	7		LOGICAL LOG			ASS	AY	RE	SUL	T S				
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	ور در در در	Ag	A1 77,646			
410'0"	414'11"	95	Fe stained quartz muscovite schist as above	19588	410'	414'11"	4' 11"		600	0.5	×			
			with a number of limonite filled fractures with											
			spots and rosettes of malachite.											
414'11"	919'11"	100	Quartz muscovite schist with some chlorite minor		4 76 - 3									
	lη dep.		Fe staining. No fresh sulphide											
419'11"	430'0"	100	As above											
430'0"	435'0"	100	Quartz muscovite schist grading to chlorite biotite		1.97									
			schist. Numerous limonitic vughs. No obvious											
			sulphide.	- 1		14 14 15 1]					
435'0"	440'0"	100	As above sch.45°											
440 ' 0"	445'0"	100	Quartz muscovite schist with minor chloritic											
			bands.											
445'0"	450'0"	100	As above 6" bands (448') dark grey and minor											
			schist with pyrite and minor chalcopyrite											
			Fe staining on fractures.											
450'0"	454'0"	100	As above			3.4								
454'0"	456'6"	100	Chlorite biotite schist with some quartzitic											
			material highly contorted and kinked			l		41						
456'6"	460'0"	100	Quartz muscovite schist											
460'0"	465'0"	100	As above minor fractures of malachite little sign											
			of initial sulphide				<u> </u>							
465'0"	467'6"	100	Quartz muscovite schist grading to chloritic schist	19589	465'0"	467'6"	2'6"		880	1.7	0 04			
			vith abundant poikiloblastic biotite										<u> </u>	
467'6"	47010"	100	Chlorite biotite schist with numerous thin	19590	467'6"	470'0"	2'6"		/200	1.1	×			
	T	T	quartzitic interhods numerous and	19591	470'0"	475 10"	1 -	1	T	I	1	I	1	1

19592

475'0"

470'0"

481 169

100

As above

6'6"

48116"

LONGREACH	GROUP	MANAGEMENT	PTY.	LTD

COMPANY

DIAMOND DRILL CORE RECORD

PROSPECT .

Hole No.: M7	Location of Site:	Reduced Level of Site:	
Drilled By:	Date Commenced:	Bearing of Hole:	
Depth:	Date Completed:	Dip of Hole:	
Core Recovery:	Sampling By:	Geological Logging By:	
Survey Data:	[Particle] : [State Particle] :	얼마를 보았다. 요즘 그렇게 하다	

		GEO	LOGICAL LOG			_ A S S	AY	RES	UL	T S				_
From t. Ins.	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill .Width	True Width	Çız,	Ag	Au ,>>>7	Cei,		
481'6"	485'0"	100	As above with abundant copper mineral chalcocite,	19593	481 '6"	485 '0"	3' 6"		රන්ත	80	×			
egen geried. Swigger			malachite, native copper and minor bornite			455.0	5							
485'0"	490'8"	100	As above less heavily mineralised	19594	485'0"	490'8"	5' 8"		>12	48.0	×			1
490'8"	49518"	100	Quartz muscovite schist with minor malachite,	19595	490'8"	495 '8"	5' 0"		>12	75·c	G ′≪	2.7		
			chalcocite and hematite. Disseminated bornite.	14 C.	5. T					20 E				L
495'8"	50018"	100	As above malachite common minor chalcocite and	19596	495'8"	500'8"	5'0		>18	400	G 08	7:7		I
			bornite. Hematite on some fractured faces.											
500'8"	505'0"	100	Quartz muscovite schist as above with chalcopyrite	19597	50018"	505'0"	4' 4"		>12	<u> </u>	<i>ు బ</i> 4	1.3		
			and bornite in veins and disseminated along frac-						·.					1
			tured faces											
505'0"	510'0"	100	As above minor copper minerals only	19598	505'0"	510'0"	5' 0		>12	ચ∉ 5	012	14		1
516'0"	535'0"	100	Quartz muscovite schist with minor traces of	19599	510'0"	515'0"	5'0		4000	,,	×			
			malachite chalcopyrite and chalcocite. Hematite	19600	530'0"	535'0"	5'0		/ 70c	1.0	×			
			and poikiloblastic biotite.											
535'0"	540'0"	100	As above includes 3" chloritic schist -538'6"	19951	535'0"	540'0"	5' o		/0œ	1.3	×			
540'0"	543'0"	100	As above increasing in chloritic interbeds and	19952	540'0"	543'0"	3' o		94	0.3	×			ľ
			poikiloblastic biotite											
43'0"	546'8"	100	Meta-volcanics chloritic schist with lensoid	19953	543'0"	546'8"	3' 8"		160	14	×			-
			carbonate inclusions abundant biotite.											
46'8"	552'0"	100	As above with yughs after carbonate	19954	546'8"	552'Q"	5' 4"		45c	1.1	×			
52'0"	601'2"	100	Fine grained to medium grained chloritic schists	19955	561'8"	A 3" se	ction		140	1.5	×			
			sometimes chlorite biotite schists, grading to	19956	571'5"	core ha every l	D' to	check		ړ. چ	×			ľ
			schistose micordiorite. Irregular veinlets and	19957	582'0"	for any that ma	y have	been -	ત્રહ	/ Q				
			interbods of quartz and carbonate-sch.60°	19958	590'11"	missed inspect		ua I	/0	1.2	×			
					***********************************									ľ
	1 44.4								3					ľ
							T						and the stranger, and	[.

COMPANY		

PROSPECT	······································	그런 사람들이 가는 회사 가장 가게 되었다.		
나라 등이 없었다. 다른 살아 내가 나는 살아 나는 그 모든 아들다.		도미 없다고 뭐 하다는 말씀데		
Hole No.: M7 Location of Site:		Reduced Level of Site		
	and the state of the second of the second	Bearing of Hole:		
Depth: Date Completed:	化氯化氯化物 化二氯化二甲基磺胺 电电子 医电影 医二氯二甲二二			
"보는 지근에 되어 어디를 가게 된다면 하는 것이 되는 것이 되었다. 그 나는 사람들은 그는 것이 되는 것이다.		Geological Logging By		
Survey Data:		Geological Logging By		
GEOLOGICAL LOG		A C C A V T	Penae	

		Core	LOGICAL LOG			ASS	AY	RE	SUL	T S			1111	
From Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins		True	Çı	Ag	Au	Čet .		
601'2"	606 6"	100	As above small veinlets of malachite	19959	601 2"		5' 4"	WIGEN		1.9	0.06	9		-
606'6"	620'0"	100	As above	19960	611'10"	1606.76.			T		1	l		
620'0"	628'10"	100	Fine to medium grained chloritic schists	19961	620'0"	 			1	1 5	×	 	 	
ייסו י828	632'10"	100	Chloritic schist containing rounded quartz frag-	19962	628'10"	632'10"	4'0		3.30	†			ļ	
			ments ranging from #"- 1". Definite sedimentary							<u> ఎ</u> 5 ८	<u> </u>	~ 2 10	<u> </u>	
2 m (57)			horizen sch. 45° possible disseminated bornite.								ļ	 		,
632'10"	637'10"	100	As above	19963	6321100	637'10"	s' o				100 00			
537'10"	642'0"	100	Fine to medium grained chloritic schists, some		032 10	037 10	30		2/6	2 <u>4·</u> 5	×	2.1		-
			biotite, irregular lensoid inclusions of quartz											
			and carbonate common. Quartz and carbonate			l								
			veins common - sch.50°											-
42'0"	646 '0"	100	As above numerous kink bands≈right angle core.											
46'0"	660'0"	100	As above	19964	646 ' 0"				£900	7.0	×			-
60'0"	665 '0"	100	As above with chalcopyrite in carbonate vein at 661	19965 19966	-65510!! 66010!!	661'9"	1' 9"		.alda.	1.8				-
65'0"	675'0"	100	As above	17700	900 0	001 9	- 7		/2o_	1.3				
75'0"	ייס ' 705	100	As above sch 45°											••
				19967 19968	675.10!! 685'0"					1.82	×			
				19969	695 '0"				<u>&</u>	1.0	× .			
05'0"	725 '0"	100	As above with 12" quartz vein (706')	19970	705'0"				/00	1.4	×			
		************************	and the first control of the control	19971	715'0"				യ്മ.		×			
25'0"	795'0"	100	As above with 12th and the same	19972					<u>6</u>	/-&	_×			-
			THE COLUMN COLUM	19973	725'0"				g	و ر	_ ×			-
				19974	735'0"				4	1:0	_×		·········	
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		745'0"				1	1.2			·	1
				19975	755'0"				16	1.3	×		***************************************	1
			The state of the s	19976	765'0"				જલ		×		************	-
				19977	775 0"				24	1.4	×			ļ

LONGREACH GROUP MANAGEMENT PTY, LTD,

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DIAMOND DRILL CORE RECORD

Location of Site: ______ Reduced Level of Site:

PROSPECT ____

Hole No.:____

0049

			Date Commenced: Date Completed:			ring of H								
Core Reco	very:		Sampling By:			of Hole: ological L	ogging	Ву:						
Survey Da	ta:					<u> </u>								
		Core	LOGICAL LOG			ASS	AY	R E	SUL	TS			Τ	T
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width	True Width	Gun	A9 12,800	Au			
795'0"	825'0"	100	As above core folded with numerous quartz voins	19979	1	ļ				1.0	×			
				19980	805 '0"				38	1.1	×			
				19981	815'0"				18	10	×			
825'0"	830'0"	100	Fine to medium grained chloritic schist, some-	19982	825'0"				22	1.0	×			
			times containing irregular to lensoid quartz and											
			carbonate blebs (vesicles) quartz and carbonate											
			veins with irregular margins parallel schistosity											
			(60°-70°) thin regular quartz and carbonate veins				311							
			cutting across schist and irregular quartz and											
			carbonate stringers.											
830'0"	957'6"	100	As above	19983	835 0"	h. 50 12			14	10	×	tions in Aug.		
				19984	845'0"				12	1.0	×			
				19985	855'0"				16	/·G	×			
				19986	865'0"			52 . 	4	1.1	×			
				19987	875'0"				24	1.2	×			
	1 1 3			19988	885 0"				82	1.1	×			
				19989	895 '0"				20	/. /	×			
1 1 1				19990	905'0"				10	1.1	×			
				19991	915'0"			100	20	1.2	×			-
				19992	925'0"					1.0	×			

19993

19994

19995

935'0"

94510"

Date: 6th September, 1971.

SPECIAL MINING LEASE 551

RADIUM HILL - SOUTH AUSTRALIA

Technical Report for the Period

11th March, 1971 to 11th

September, 1971.

A. EDWARDS,
Resident Geologist.



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Exploration in the S.M.L. area during the period was confined to the Ridge Prospect. Four drill holes, totalling 3015, were completed. A number of narrow steeply dipping lenses of low grade copper mineralization were intersected. Further drilling will be required to test the south westerly extension of this mineralization.

-INTRODUCTION

1.1 Tenancy

The S.M.L. area was initially granted to Longreach Metals No Liability on March 1st, 1969 as S.M.L. 274. Tenure of the area was retained for a further six months in March 1971 subject to the expenditure of \$30,000 on exploration. The area contains 799 square miles.

1.2 Location and Access

The area is located on the 1:250000 scale Olary sheet between latitudes 32°24' and 32°50' and longtitudes 140°30' and 141°00'.

Access to the area is by way of a formed road, which leaves the main Adelaide to Broken Hill road some 4 miles west of Cockburn. The formed road terminates at the Mutooroo Homestead which lies in the north east corner of the S.M.L. area.

Access within the area is by station tracks.

1.3 Topography

The area is located on the northern margin of the Murray Basin. As a result the southern two thirds of the area is devoid of substantial relief. The country consists of open salt bush and bluebush plains, with eucalypt and acacia scrub in the south and west.

The northern portion of the area generally shows more relief. The gently undulating saltbush and bluebush plains are broken by occasional ridges of quartzite, tillite and B.I.F. The Maldorky Hills, which lie in the north west of the area form the highest point in the S.M.L.

The area is drained by a series of ephemeral streams. These drain to the south of the area where they gradually die out.

2. PREVIOUS WORK

2.1
The northern margin of the area where it laps onto the Ballara 1 mile
Sheet has been mapped by Sprigg (1951) and Campana and King (1958).

The whole of the area has since been re-mapped as part of the South Australian Mines Departments regional mapping programme of the Olary 1:250,000 Sheet. Mapping of the Mutooroo 1 mile Sheet was by A.F. Williams, R.A. Callen re-mapped the Ballara sheet.

An investigation of mineral leases 3038, 3039 and 3040 was 0054 conducted by N. Hevin during 1956. These leases were located about 6 miles south of the Mutooroo Homestead.

2.2 Geophysics

Aerial magnetometer surveys were flown over the area by the South Australian Mines Department and the Bureau of Mineral Resources between 1953 and 1955.

3. REGIONAL GEOLOGY

3.1 Archean

The oldest rocks in the area are the granitic gneisses and schists of the Willyama complex. These rocks outcrop in the north east of the S.M.L. area, and are inferred in the extreme north of the area from aeromagnetics (see Figure 2). Associated with the gneisses in the Mutooroo Homestead area are a number of north easterly trending amphibolite dykes.

The Willyama blocks are bounded by north easterly and north westerly trending shears, which are parallel with the Macdonald shear zone and the Anabama-Redan fault zone respectively. These are the major basement lineations in the area.

3.2 The Adelaide System

The rocks of the Adelaide System occupy a large triangular area north of the Anabama-Redan fault zone, which trends almost diagonally across the area. These rocks are complexly folded in the zone of adjustment surrounding the Macdonald shear zone, where it intersects the nose of the north easterly trending Wadnaminga Anticline. The effects of this are well illustrated on Figure 2.

Movements on the Anabama-Redan fault zone have resulted in some complex folding and in inliers of older material being faulted in.

The main stratigraphic units present in the area are:-

(a) Callana Beds

A small, highly deformed wedge of volcanics and sediments occurs within a north easterly trending ridge some 7 miles south of the Mutooroo Homestead. The rock types recognized include trachytes, sodic rhyolites, chlortic schists and quartz muscovite schists.

(b) Burra Group

The Burra group is represented by interbedded conglomerates, coarse grained arkoses and siltstones, overlain by grey phyllitic siltstones and dolomites. South Australian Mines Department mapping has correlated the arkosic units with the Rhynie sandstone.

(c) The Yudnamutna Sub Group.

The Burra Group sediments are overlain by tillites, with some interbedded hematite lenses and siltstones, quartzites and dolomites. This unit overlies the Willyama complex unconformably in the north east of the S.M.L. area.

3.3 Recent Deposits

Much of the area is covered by a veneer of sand and silt with well developed calcrete horizons.

3.4 Igneous Rocks

(a) Anabama Granite

From the aeromagnetic survey it was inferred that the Anabama Granite extends into the far west of the S.M.L. area. Although the granite does not outcrop, its presence has been confirmed by auger drilling.

(b) Pegmatites

A number of small dykes and pods of pegmatite have been found intruding the Lower Burra Group sediments. The rock consists of pink plagioclase and quartz with coarse grained ilmenite as a common accessory mineral.

(c) Diorite

A course grained altered diorite occuring in a narrow dyke has been located within the trachytes mentioned above. The rock in principally composed of oligoclase/andesine leucoxenized opaques and chlorite epidote pseudomorphs after homblende. Minor malachite staining was also observed.

4. SUMMARY OF EXPLORATION BY LONGREACH METALS N.L. PRIOR TO MARCH 1971.

An airbourne magnetometer and spectrometer survey was carried out over the S.M.L. area during 1969. This survey revealed sixteen local magnetic anomalies and two areas of anomalous radioactivity.

The magnetic anomalies were located on the ground by traversing with a ground magnetometer. Programs of soil sampling or auger drilling were carried out in conjunction with detailed ground magnetics and geological mapping. The results from this work were not encouraging and no further work was undertaken.

The eastern area of anomalous radioactivity was examined in some detail on the ground. Initial ground exploration included geological mapping, spectrometer surveys and a percussion drilling program of four holes. Gamma ray logs and radon gas determinations run on the percussion holes were encouraging and resulted in the drilling of a 525' diamond drill hole No. DDHM1. No economic mineralization was encountered, although anomalous U_3^{0} 8 values were recorded.

The western radiometric anomaly was tested by an auger drilling program. Results were not encouraging.

Ground investigations located two areas of copper mineralization known as the Ridge and Lyndock Prospects. Ground exploration consisted of an integrated program of detailed geological mapping, soil sampling and ground magnetics followed by an induced polarization survey over selected areas.

Coincident I.P. and geochemical anomalies were delineated over a strike length of some 2000' on the Ridge Prospect. A diamond drilling program was commenced during January 1971 to test these anomalies. Details of this work were reported in March 1971.

5. EXPLORATION DURING THE PERIOD MARCH 11TH, 1971 to SEPTEMBER 11TH, 1971. RIDGE PROSPECT

5.1 Geology

The area was mapped on a scale of 400' = 1" during the previous year. The principal area of interest, known as the drill site was mapped on a scale of 100' = 1".

5.1.1 Rock types

(a) Arkosic Conglomerates and Sandstones.

The conglomerates consist of angular quartzite pebbles with minor shale fragments in a matrix of chlorite and sericite schist. Heavy mineral bands are common. The sandstones, which are compositionally equivalent, range from course to fine grained types.

(b) Quartz Muscovite Schists

These rocks are fine grained with quartz mullions and blebs prominent in some localities.

(c) Chlorite Biotite Schists

Over much of the area these rocks were not differentiated. In general they occur as grey green friable schists. Sedimentary laminations are retained in some areas. In the drill site area, two types of schist could be differentiated.

(i) Meta Volcanics

These are dark grey schists, commonly vesicular with quartz and carbonate infilling the vesicles. The original rock was thought to have been a sodic trachyte.

(ii) Chlorite biotite schists derived from silts and tuffs. These are are mainly greenish black schists with grey interbeds and occasional lenses of quartzitic pebbles and grits.

(d) Rhyolites and Schists

The rhyolite is a fine grained blocky siliceous rock consisting of pink and grey phases which define intricately folded laminations. The grey phase which is more prominent appears vesicular in some localities. When sheared, the rhyolite forms a grey and white spotted schist.

5.1.2 Structure

The rock mass has suffered intense shear slip folding which resulted in a major horizontal anticlinal structure trending sub parallel to the length of the ridge. This folding was accompanied by transposition. Numerous small folds occur on the limbs of the major structure.

A second episode of shear slip folding transverse to the first episode has occured in the drill site area. The secondary folding has been attributed to a strong horizontal movement to the southwest on the Amabama-Redan Fault zone, which lies to the immediate south of the prospect area.

5.1.3 Mineralization

0057

The sulphide assemblage encountered during drilling at the Ridge Prospect includes pyrite, bornite, chalcopyrite and chalcocite. The surface expression of the mineralization is mainly in the form of malachite with minor chalcocite.

The chalcopyrite mineralization appears to be associated with magnetite rich bands within rocks of muscovite chlorite metamorphic grade. The metamorphism is accompanied by increased amounts of accessory potash felspar.

The bornite is commonly intergrown with chalcocite, and is often intimately associated with crystals of ilmenite. The ilmenite sometimes contains traces of rutile. In a number of cases the sulphides were found to be replacing the oxides. Ilmenite and rutile were identified from a number of the cores sectioned and were not always found to be associated with copper mineralization.

The mineralization tends to occur in lenses or pods up to 32' thick, and dipping to the N.W. at $70^{\circ}-75^{\circ}$.

Concentrations of copper mineralization occur in the vicinity of quartz muscovite schist/chlorite-biotite-schist contacts, within lenses of pebbly and gritty chloritic schist, and around fault zones.

The controls for the primary mineralization have been obscured by the repeated metamorphism. Some lithological and possibly structural control can be inferred from the distribution of the secondary mineralisation.

5.2 Diamond Drilling

The diamond drilling program commenced during January 1971 was continued. Four holes, (DDH M5, M6, M7 and M8) totalling 3075' were completed during the period. The locations of these holes are shown on Figure (3).

All core was logged, and selected intersections were split and assayed. Assays were performed by Geochemical and Mineralogical Laboratories Pty. Ltd. of Sydney.

The significant assays from all holes drilled are shown in Table I. The geological logs are summarized in Figures 4 to 8.

Holes M5 and M7 were drilled to test the mineralization encountered in holes M2, M3 and M4.

M6 was designed to test an I.P. anomaly on line 172E.

DDH M8 was designed to test any possible extension of the mineralization encountered in DDH M7.

5.3 Conclusions

- 1. A series of steeply dipping lenses of low grade secondary copper mineralization have been intersected by drilling between lines 180E and 188E. This mineralization should extend at least as far as 172E.
- 2. From the results of M4 and M8, it is possible that the mineralization is limited in depth between 180E and 188E. DDH M7 indicates that the mineralization may plunge to the SW.

- 3. The controls of the primary mineralization are at present not fully understood due to the repeated metamorphism. Some lithological and structural control can be inferred from the distribution of the secondary mineralization.
- 4. Any possible extension of the mineralization to the S.W. could be tested by drilling on line 172E. It is significant that an I.P. anomaly was delineated on line 164, along strike from the known mineralization.

6. RECOMMENDATIONS

- 6.1 The area surrounding the Ridge Prospect should be retained, together with all extensions along strike.
- 6.2 The S.M.L. with the exception of the Ridge Prospect, shows little potential and should be relinquished.
- 6.3 Further drilling should be undertaken to test the south west extensions of the mineralization in the vicinity of 172E.

Best results from drill holes DDH M2 to DDH M8.

		From	То	Interval	Copper %
Hole	DDH M2	1341	158'	24'	0.45%
Location	184E - 101.33N	166'	173'3"	7'3"	0.27%
\mathtt{Depth}	44814"	186'10"	194'11"	8'11"	0.26%
Dip	45 ⁰	245 ' 9"	261 ' 6"	15'9"	0.48%
Bearing	140°	32816"	331 ' 3"	219"	1.35%
	÷ 10	428'11"	4291	1'4"	2.8%
		0 11	,		- / ·
Hole	DDH M3	170'8"	187'3"	16'7"	0.25%
Location	184E - 101N	202'11"	239'10"	36'1"	0.51%
Depth:	447 ' 4"	261'0"	265 ' 2"	4 ' 2"	1.6%
Dip	- 55°	333'11"	338'0"	4'1"	1.25%
Bearing	140°	37310"	379'0"	610"	1.05%
		••			,
Hole	DDH M4	318'9"	320 ' 9"	210!!	0.30%
Location	184E - 103N	493 '0"	498 ' 6"	5'6"	0.23%
Depth	717'0"	50813"	512'7"	414"	0.50%
Dip	-55 ₋	522'7"	527 ' 9"	5 ! 2"	1.06%
Bearing	140°	, ,,== 1	2-1 /		2,000/-
Dearing	140	·			
Hole	DDH M5	199'10"	201'4"	1'6"	0.49%
Location	188E - 101.50N	206'0"	218'Q"	12'0"	0.29%
Depth	501'4"	230 '0"	235 ' 0"	510"	0.50%
Dip	-55 ⁰				
Bearing	140°			•	
Hole	DDH M6	No signific	ant mineralia	zation inte	resected.
. Location	172E - 96N	,			
\mathtt{Depth}	756'9"				
$\operatorname{\mathtt{Dip}}^-$	- 55°			•	
Bearing	140°				
I,		*.			٠.
Hole	DDH M7	287'6"	29718"	10'2"	0.34%
Location	102.50N/180E	350'0"	355 ' 0''	5'0"	0.26%
$_{ m Depth}$	957!6"	481'6"	515'0"	32'5"	1.57%
Dia	-60°	628'10"	646'0"	17'2"	1.45%
Euring	140°				
v		•		•	•
Hole	DDH M8				
Location	178E/103.95N	690'4"	709'10"	19'6"	0.48%
·Depth	86016"				
Dip	860'6" -60				
Bearing	140°				•
•		•			

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IAMOND DRILL CORE RECORD

PROSPECT MTOOROO RIDGE

			PROSPECT MTOOROO RIDGE						(0060)			
Hole No	.: DDH M8	· · · · · · · · · · · · · · · · · · ·	Location f Site: 178E/103.95N		Pod.	ucad Tawa	7 af C							
Drilled	By: A.D.I).	Date Commaced: 5th June, 1971					0.7					-	
	86016		Date Compated, 2nd July, 1971					-60°						
Core Red	2222 4301	78 ⁰ \ 21	Sampling v: D. Barraclough 7'6 (52°) 10' (61°)					Ву:	A. E	dward	S			
Survey 1	Data:	·												
	Т	GEO	LOGICAL LOG			ASS	АУ	RES	UL	T S				
From Ft. Ins	To Ft. Ins	Recov.	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width			Ì				
0'0"	11'0"	75%	Grey phyllitic siltstones with some lensoid							<u></u>		<u> </u>		
			carbonate (dolomite). (B Casing to 11')) (<u>() () ()</u>						1				
11'0"	17'3"	90%	As above with some chlorie Diotite schist.		4.354 N/N				4					
			Sch 10°- 20°											7
17'3"	25 ' 4"	95%	As above.											
25'4"	3010"	100%	Grit - gritty subangular tz . frags in a matrix	2 1										
			of grey phyllitic silst.S 30°											
30'0"	35 ' 7"	100%	As above.											-
3517"	401	95%	Grey phyllitic siltstones with minor grit frags.		i. Generala di ka			12.0	***********					
		1	and small pebbles.									1		
			Grit band 38' - 39'					7 - 1 - 1						
4010"	45'0"	95%	As above - becoming more S nch			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			- ,					
45'0"	5010"	95%	White to pale grey qtz. nuscovite schist - minor	Į.,										
			specks of heavy min.					·	10 mg. 10 mg					
5010"	55!5"	80%	As above											
5515"	60'0"	95%	As above more heavy min. pands.											
60'0"	6614"	95%	As above - abundant Mn min. Possibly braunite.											
<u> </u>			65'0" - 66'0" - Sch. 25°.											
66'4"	70'0"	100%	Quartz muscovite schist with bands of dark mineral							20.0				. V
			possibly braunate or similar Mn. oxide - sch 20°.		التاسية									
70'0"	75'0"	95%	As above							1 2 2				
75'0"	8010"	100%	As above											
80'0"	85 '0"	100%	As above with abundant Mn rich bands - clay filled										241	
			shear zone 84'/ to Sch i.e. 25°											1.00
8510"	90'0"	100%	As above											
90'0"	95'0"	100%	As above											
5'0"	100'5"	00%	As above.											
	Fried State	1	A. B.							I				

LONGREACH GROUP MANAGEMENT PTY, LTD.

DIAMOND DRILL CORE RECORD

PROSPECT				741			U	UOI						
Hole No			tocation of Site:		Pod	luncal Torre	1					. "		
			Date Commen led:		i i	luced Leve								
			Date Compli ed:			ring of Hole:								
			Sampling B		•	logical I								
	ta:				į			J						
	4 1 1 1 1 1	GEO	LOGICAL LOG		·	ASS	AY	R E	SUL	TS			-	
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPT ON	Sample No.		To Ft. Ins		True Width						
100'5"	105'0"	100%	Ás above.			•								
105'0"	110'0"	100%	As above.											
110'0"	115'0"	100%	As above.											
115'0"	120'0"	100%	As above.									•		
120'0"	125'0"	100%	As above - Sch. 30°		i i						1			
125'0"	13010"	100%	As above.		1									
130'0"	135'0"	100%	As above - 9" qtz. yein : 131'		20.5									
135'0"	140'0"	100%	As above								1.15			
140'0"	145'0"	100%	As above											
145'0"	151'7"	100%	As above - Sch. 30°										1	
151'7"	154'4"	100%	Green chlorite sencite qtz. schist - Sch. 25°											
154'4"	160'0"	95%	Medium to f.g. chloritic hist - original rock											
			type unknown. No evidence of vesicles etc.											-
	1		Minimal qtz and CO3 veining. Minor Fe staining.		1		11.0							
160'0"	165'0"	100%	As above - sch 30°											
165'0"	170'0"	100%	As above							141				
170'0"	175'0"	100%	As above		1				3.				h	
175'0"	180'0"	100%	As above	16.	2							-		
180'0"	184'0"	100%	As above											
18410#	187'0"	100%	Medium to fine grained chloritic schist and some										7 - 1	
8 <u>74 - Yy</u> r.			heavy min magnetite, g kning to q.m.s. Minor		1								le d	
			veinlets of malachite - sch 45°		3 76.								188	
187'0"	191'3"	100%	Q.m.s. as above with 12" tz. vein 188' and with											
<u> </u>	- 1a 1 y, 11 .		chlontic inclusion.			2 - 7 - 7								
191'3"	196'4"	95%	As above with qtz. veins at 192' (24") and 195'6"		<u> </u>						ļ	ļ		<u> </u>
			(10") - core very broken.	ļ	<u> </u>	<u> </u>								
	<u> </u>				<u> </u>							1 3 7		1
	1	1 : -	I version is the contract of	1		1 1	100			1		1 '	1000	1 0

COMPANY

DIAM ND DRILL CORE RECORD

	i Jakonii		PROSPECT								0063	3 · .		
Hole No.			Location of Site			iced Leve	l of Si	te:						
			Date Commenced:			ring of H								
						of Hole:								1
Core Recov	ery:		Sampling By:		Geo	logical L	ogging	Ву:						
Survey Dat	a:					· <u> </u>	-					<u> </u>	<u>i 14 mul</u>	
			OGICAL LOG	 -		ASS	A Y	RES	ULI	S				
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPTION	Sampl No.	From Ft. Ins.	To Ft. Ins	Drill Width					\dashv		
196'4"	202 ' 4"	95%	Qms - sch 30°			<u></u>								
20214"	207 ' 3"	95%	As above	2										h / /
207 ' 3"	212'4"	95%	As above											i
212'4"	216'7"	100%	Grey qms - talcose in places. Sc 10° - large					ļ						
it i jaiti	1		scale kinking.				ļ	<u> </u>						
216'7"	221	100%	Grey qms as above		ļ		ļ							
221'0"	22718"	100%	As above					ļ						
22713"	234 ' 9"	100%	As above			<u> </u>	ļ							
23419"	241'3"	100%	As above		1			ļ						face account of the
241'3"	245 '0"	100%	Grey talcose q.m.s sch 25° - Kink bands at		<u> </u>		ļ	<u> </u>						
		10	right angles to sch.		1	<u> </u>		ļ						
245 ' 0"	250'0"	100%	As above							ļ				
25010"	254'10"	100%	As above		. +			4	<u> </u>					
254'10"	261'11"	100%	As above becoming more silicec s		حنبت أ				ļ					
261'11"	26913"	100%	As above	1	1			<u> </u>		1	1			
26913"	277 '3"	100%	As above		1		_				ļ			
277'3"	287'6"	100%.	As above		1				ļ	ļ	-			
287'6"	297 ' 3".	100%	As above with 2'6" cavity 293' '-296'								-	-	-	-
29713"	30410"	100%	As above		-								ļ	
30410"	311'8"	100%	As above, minor Mn bands							ļ		ļ		ļ

LONGREACH	GROUP	MANAGEMENT	PTY.	LTD
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DIA	MC יDR	ILL CORE REC	ORD :	

	a in the second		LONGREACH GROUP MANAGEMEN	T PTY.	LTD	Array Santa								-
			COMPANY								FOR	M 12	- 69	
														
		i i	DIAMC D DRILL CORE R	ECORD	1 14.									
			PROSPECT	<u> </u>	<u> </u>									44. g
77. 1 - 37.									006					
Hole No.:			Location of Site: Date Commence			educed Leve								
to a	, , , , , , , , , , , , , , , , , , , ,					earing of H ip of Hole:								·C.
Core Reco	легу:		Sampling By:			eological L								
Survey Da	ta:												F 5	₩
		G E O	LOGICAL LOG	1		ASS	AY	R E	SUL	T S				
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTICN	Sample No.		To s. Ft. Ins		True Width						
34713"	35217"	100%	As above with minor pyrite (1 3=)									1, 11		1
35217"	35713"	100%	As above with pyrite and mine hornblende											1
35713"	36413"	100%	As above											
-364+3!"	371'6"	100%	Siliceous greenish grey qms sch poorly defined		1.7									1
37116"	37713"	100%	As above with hematite		***************************************						İ			1
37713"	38519"	100%	As above with hematite and py tes - qtz. veins					 						
			at 381' (12") and 385' (9")		Limita di Mari									
38519"	39319"	100%	As above 3' qtz weins at 386 and 9" qtz vein 3	92'										
and Same		2	Iron pyrite common.											†
393 9"	402 ' 9"	100%	Qms with numerous qtz boudin - pyrite occurs in		<u> </u>	3221								
			muscovite matrix and in some oudins.		Anni ga man iga pini sia a									
409'11"	414'2"	95%	Qms - 1'6" cavity from 411'0 - commonly Fe											
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		stained, no boudins or pyrit											
414'2"	419'5"	95%	Fe stained qms - core very brown - possible fau	1	1								- 1	
			zonė.											
41915"	425 ! 9"	95%	Grey quartz muscovite schist sch 30°		Principal de La Caración de La Carac									
42519"	433!:	100%	As above with pyrite, common 7 assoc. with Mn min	1. 4										
			(braunite or manganite) with 1 qtz.	, i	<u> </u>									
43310"	441'0"	100%	As above	1										
441'0"	450'10"	100%	As above with 18" qtz vein 1 om 446'		1			1						
450'10"	456!6"	100%	As above - little sulphide			1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7								
45616"	46513"	95%	As above with minor pyrite & d occasional											1,1
	g (Kiloner)		homblende rich bands. Core intensely broken up.		L									
46513"	47512"	95%	As above - sch 45°								. [.]			
														1.3
		in the day of										ă.		

LONGREACH	GROUP MANAGEMENT PTY.	LT	D.
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Hole No.:.			Location of Site:		1	ced Level								
			Dat. Commenced:		' I	ing of Ho								
			Dat Completed:		A 10 10 10 10 10 10 10 10 10 10 10 10 10	of Hole: ogical Lo	. 3							
	•		Sar ling By:		Ge a	ogical L	SETTIE	Бу •						: .
Survey Dat	:a:		the state of the s	Ţ:		ASS	ΑΥ	RES	S U L	T S	2.6			
		G E O I	OGICAL LO(To	Drill		Cu	Ag				
From Ft. Ins.	To Ft. Ins.	Recov.	D.E S C R I P T I O N	Sample No.			.Width		opm	ppm		<u> </u>		-
475'0"	48318"	95%	As above } sch 450		40							<u> </u>		
48318"	489 '0"	95%	As above) Minor pyrite, occasional homblende									1		ļ
48910"	495 0"	95%	As above) porphyr blasts usually in bands.	1	4						. 1,21			·
495'0"	50310"	95%	As above)											
503'0"	511'3"	95%	As above)			- 2:		1						
511'3"	518'0"	95%	As above)											
518'0"	52515"	95%	As above				24.0							
			As above)			·		1						
52515".	532!0"	95%	As above - very sheared and friable }		1 - 2 - 2 - 2 - 2			†		1				
532'0"	534'9"	50%						-	1			-		
53419"	542'11"	50%	Very sheared frial te qms minor qtz at 5421		1 3 3 3 3 3 5			†	1			1		
542'H"	547 '0"	90%	As above with fau gouge 546'0" - sch 50° Shea	r						ļ				!
547'0"	551!5"	95%	As above - fault gouge 548'7"			(<u> </u>	1		ļ				
551'5"	555'1"	95%	As above				272	1						
555'1"	55519"	95%	As above				-		-					
558!9"	56419"	20%	Qms - as above - ery sheared		<u> </u>		ļ	-			-	-	ļ	
564'0"	56918"	95%	As above				ļ					_	-	-
569'8"	574'11"	95%	As above - minor ulphide - core extremely											
			fissile to 573'9'											
574'11"	579'7"	98%	Quartz muscovite chist with minor chloritic	4 . 4 . 4										
			interbeds - core very broken - minor pyrite -											
			sch 55°											
570.70	583'11"	98%	As above	2301	57917"	583'11	" 4' 4'	,	500	0.4			17	
579'7"				2302		1		1	700	0.8				
583'11"	587151	100%	As above - with chloritic bedsad byrite and	12002		´ ` ' - ´ -	1	1				1		T
	1 - 1 - 1		chalcopyrite - f.g. pyrite occurs in bands -						_		1		1 .	
	1 1 1 1 1 1		chalco occurs as blebs and veinlets in assoc.							+	+	-	1	
		<u> </u>	with pyrite. Minor poikilitic biotite.			<u> </u>				+	-		-	1
		4							+					+

LONGREACH.	GROUP MANAGEMENT	PTY.	LTD.
COMPANY			
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Drilled By: ____

	PROSPECT			0006	,	100
		,				
<u>.</u>	Location of site:	 	Reduced Level	of Site:		
	Date Commenced:		Bearing of Hol			
	Date Completed:	 	Dip of Hole:			
	C14 5 3					

-					D1p	of Hole:	***************************************				 		
Core Reco	very:		Sampling By:			logical L					 		
Survey Da	ta:											ne hadi.	
Land Say and a		G E O	LOGICAL LOG			ASS	ΑY	RE	SUL	T S	 	,	
From Ft. Ins.	To Ft. Ins.	Recov.	DESCRIPTI)N	Sample No.	From	To Ft. Ins	Drill Width	True Width	Cu ppm	Ag ppm			
58715".	589'11"	100%	Highly sheared qms with abun ant poikiloblastic	2303	58715"	589'11	2' 6"		480	0,8			
angra.			brotite with minor pyrite.										Ī
589!11"	59215"	100%	Oms with some chloritic and sincitic interbeds	2304	589'11'	59215"	2'6"		86	0.5	 		
	e de la		and poikiloblastic biotite - minor fg pyrite and										T
			chalco.		t								
59215"	597!3"	100%	As above	2305	592'5"	59713"	4' 10"		110	0.6			1
59713"	59816"	100%	Qms grading to chloritic schist - minor py.	2306	59713"	59816"	T		96	1.1			Ī
598'6"	605 ' 9"	100%	Vesicular metatrachyte - pv common on sch.	230	59816"	605 1 9"	7′ 3″		52	1.4			1
<u> </u>			planes.										
60519"	609'10"	100%	Otz chlorite muscovite schi: rth poikiloblastic	2308	60519"	609'10'	4'1"		120	0.8			
			brotite and f.g. chlorite.								 		1
609'10"	614'3"	100%	As above with f.g. py. comm	2309	609'10"	614'3"	4'5"		68	1.0			Ī
61413"	616'3"	_	Cavity										
616'3"	621'0"	100%	Chloritic schists - probabl setatrachytes - py	231	614'3"	621!0"	6' 9"		44	1.7			T
			common. Sch 550										Ī
621'0"	62616"	100%	As above	231	621'0"	62616"	5'6"		16	1.6			
62616"	631'0"	95%	Quartz muscovite schist with inor py.	231	626+6"	631'0"	4'6"		270	0.8			
631'0"	63814"	95%	As above	231	631' 0 "	63814"	7'4"		430	0.4		1.	T
63814"	64216"	95%	As above	2314	63814"	64216"	4'2"		760	0.5			
64216"	64814"	95%	As above	2315	648+4"	6 5 4 ' 4"	6'0"		1100	0.6			
648'4"	65414"	95%	As above with minor chalco a 1 py - often very			n de Sein							
			f.g. in quartzitic mer ber.		da.								
554'4"	661:5"	100%	Chlorite quartz muscovite s nist with bands of	2317	65414"	-661'4"	7'0"		320	1.0			I
			f.g. chloritic schist - pyrite with minor chalco.			an Andre							
61'5"	66414"	100%	As above - dissem. f.g. py, common - minor chalco	2318 vith	661'5"	664'4"	2'11"		310	1.0	4.4		
<u> </u>			chalcocite rims.			7 W M							
	1 11 11 11 11	H	النداد الإليانيمانيا الزيد الكنائد الدالد الداكة	1	ļ				Γ				T

LONGREACH GROUP MANAGEMENT PTY.	
COMPANY	
DIAMOND DRILL CORE RECORD	

			DIAMOND DRILL CORE REC	ORD												
	1.															
		\$3.33	PROSPECT			NEW V			00	66						
					Redi	iced Leve	1 of Si	to.								
	,					ring of H										
Depth:			Date Completed:		Dip of Hole:											
•			Sampling By:	1		logical L	ogging	Ву:						ا دند		
Survey Dat	ta:												of the			
	·		LOGICAL LOG			A S S	AY	RES	SUL	T S		· · · · · ·				
From	To Ft. Ins.	Core Recov. %	DESCRIPTION	Sample No.	From Ft. Ins.	To Ft. Ins	Drill Width		Cu ppm	Ag ppm		10		- <u>1</u>		
66414"	671'3"	100%	F.g. chloritic schist with numerous lensoid qtz/	2319	664!4"	67113"	6' 11'		54	1.7				Barle.		
			carbonate frags orientated // sch - sch 650 -		<u>; </u>											
			Carbonate and qtz veins and string rs. Blebs of		<u> </u>											
			pyrite up to 4 mm in schist.		-				ļ							
671'3"	679'1"	100%	As above	2320	671'3"	679'1"		4	72	1.7						
679'1"	68713"	100%	As above	2321	679'1"	68718"	8'7"		220	1.8						
68713"	690'4"	100%	As above	2322	68718"	69014"	2' 8"		1400	2.0						
690'4"	692'4"	100%	Qms with f.g. dissem. py and chalco - sch 60°	2323	69014"	69647"	613"		2300	1.0						
69214"	696'7"	95%	As above						ļ	1 7 1 1				<u> </u>		
696'7"	700'3"	80%	Qms - silicified in patches - ming chalco.	2324	696'7".	700'3"	3'6"		4300	1.2	: 	. 12				
70013"	705'1"	95%	Qms - sometimes felspathic with c. lcocite, minor	2325	70013"	705'1"	4'10		5200	4.0						
بنند شنت الأسب			malachite, bornite and chalco. Mir ir py:	إشعدا					ļ					- 1		
705'1"	709'10"	95%	As above with bornite and chalco with minor py.	2326	705'1"	709'10'	419		8000	11.0		V. L. I				
709'10"	714'0"	95%	As above - with no Cu min.	2327	709'10"	714'0"	4' 2"	1.5	60	0.8						
714'0"	716'6"	95%	Chlorite quartz muscovite schist with f.g.	2328	714'0"	71913"	5' 3"		280	1.0						
		1	interbeds.													
716'6"	72314"	95%	Qms - often felspathic with shreds of grey schist	2329	719'3"	72314"	4' 1"	7.2	26	0.3			4.1, 4.			
	1 -		- sch 80°- 90°.			:		<u> </u>		ļ			.			
723'4"	72814"	98%	Highly sheared qms with shreds of g ey schist, Mn		1					<u> </u>		<u> </u>		. کُلستا		
			staining on shear planes - sch 750 kink bands			75.3 11.3		<u> </u>								
			at 45° at right angles to sch.				ļ									
72814"	73713"	50%	As above - with siliceous patches. Inner tube di	d	8 9 8 4		. (
	1		not seat.													
737'3"	74610"	100%	Brecciated qms with small patches o' hamatite,		1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				<u> </u>	4 12 1						
		1	irreg. qtz. veins with chlorite selvages. Limonite		<u> </u>	1,711,111	1	1 5 5		ļ	ļ	ļ				
			along fractures.				4,2100				<u> </u>					
746'0"	75316"	5%	As above. Inner tube did not seat.		A same	lig sama	V 10.55	energi)				ļ		LL.		
		Ł.T			M		i	J ·	1 - 1							

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LONGREACH	GROUP MANAGEMENT PTY.	LTD.
COMPANY		

DIAMOND DRILL CORE RECORD

PROSPECT

Survey Data:

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Hole No.:	Location of Site:		Reduced Level of Site:
Drilled By:	Date Commenced:		Bearing of Hole:
Depth:	Date Completed:		Dip of Hole:
Core Recovery:	Sampling By:		Geological Logging By:

	540		OGICAL LOG			ASS	T S							
From Ft. Ins.	To Ft. Ins.	Core Recov.	DESCRIPTION	Sample No.	From	To Ft. Ins	Dri11 Width	True Width	Cu ppm	Ag ppm			100 m	ing selection of the se
75316"	755'0"	50%	As above.		*,									
755'0"	757'3"	50%	Highly sheared chloritic schists with shreds of											
	A 4 4 4		qms.											- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12
75713".	76019"	95%	Fine grained chloritic schist with irregular	nako	and a state	\$1.50 Miles	4.54							
			veinlets and blebs of quartz.			9 (4.2.2)								
76019"	77019"	30%	Chlorite quartz muscovite schist.										2.7.2	ر بسلسین
77019"	77519"	95%	As above with irregular 12" qtz vein 773 6".											
77519"	77714"	95%	As above.											ۇسىد خىنگىنىك
777'4"	784'2"	10%	Fragments recovered include chloritic schist and	20 f K	1									
			qtz.											
784'2"	790 0"	100%	F.g. chlorite and chlorite qtz schists	2330	78412"	790'0"	5' 10"		24	1.0				1
			magnetite common, especially in more sheared	Cerry.	a Asset in	N. Amarica		1111		1			1	
		327 347 - 27 - 24	positions. Minor pyrite.			i de la companya d								
79010"	797!3"	100%	Chloritic schists (meta volcanics) - lensoid quz		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									 <u> </u>
			and carbonate. Irregular qtz and carbonate veins.	3 N.A	3 34 334									
			Minor chalco. both in veins and disseminated	in a car										
	1.00		through the rock.											
797'3"	80213"	100%	As above - brecciated with qtz filled tension	2 (87)								100 1 1 100 1 1		
1			gashes.											
80213"	807'0"	100%	Medium grained chloritic schists as above - schood		20 9/40		3 . 17							e garita <u>a di antig</u> a
807'0"	810'8"	100%	As above with minor sulphide probably pyrite on	f est										
	l alaman,		some shear planes.	!						.)				
810'8"	814'0"	95%	Chloritic schists grading to quartz chlorite	2331	810'8"	814'0"	3'4"		700	2.1				
			muscovite schists. Minor sulphide.							1 10				
814'0"	821'3"	5 %	Quartz muscovite chlorite schist with pyrite and	2332	814	821 '3"	7'3"	Limen.	540	1.1				
			chalcopyrite. Core barrel did not seat.		216	5.5						ļ <u>.</u>		
821'3"	827'1"	50%	Chloritic schists with minor quartzitic bands.	10.3				. د د د د د د						5
		1		i		1		1	F		1 -	1	F	1

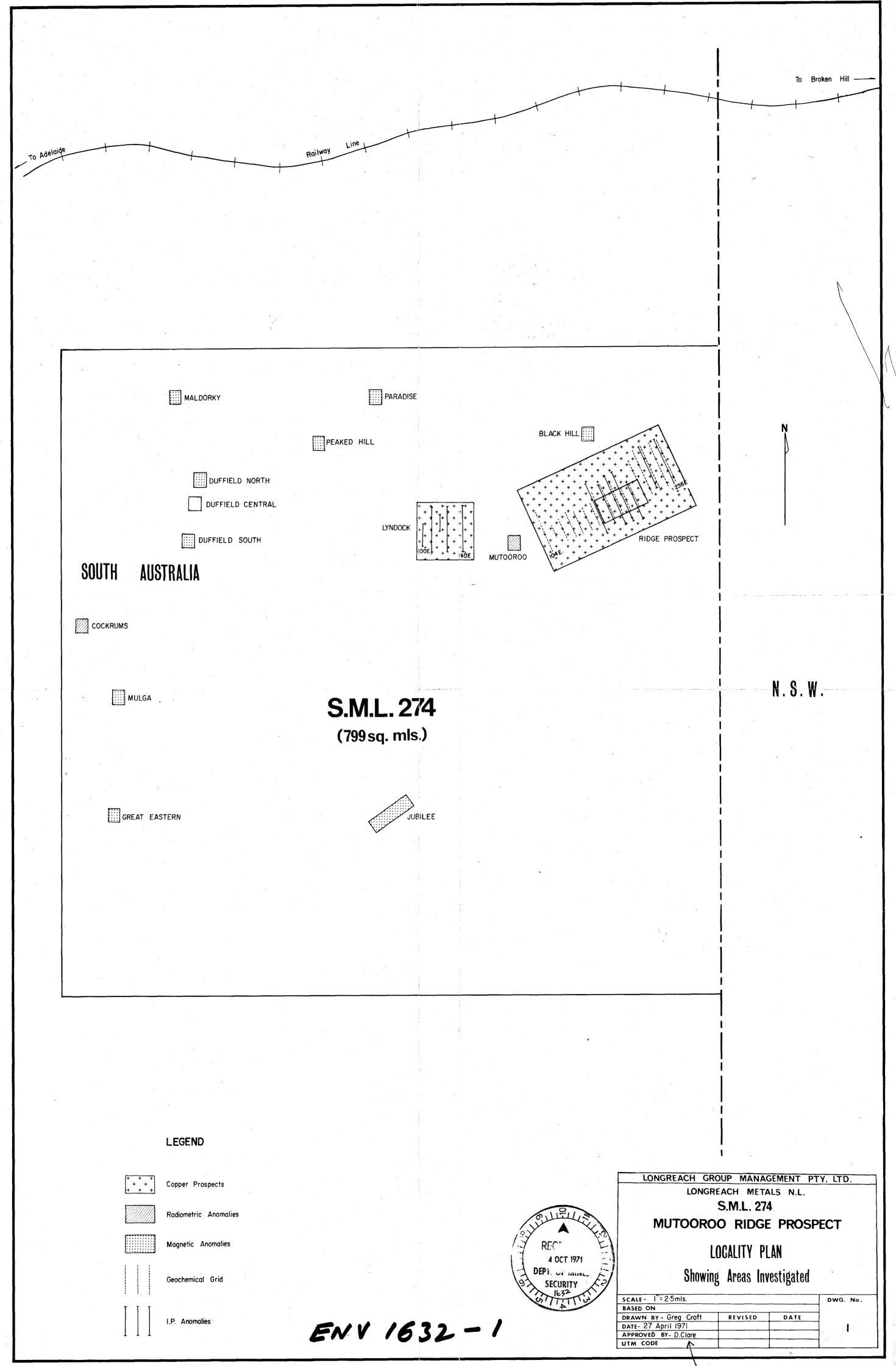
LONGREACH GROUP MANAGEMENT PTY, LTD.

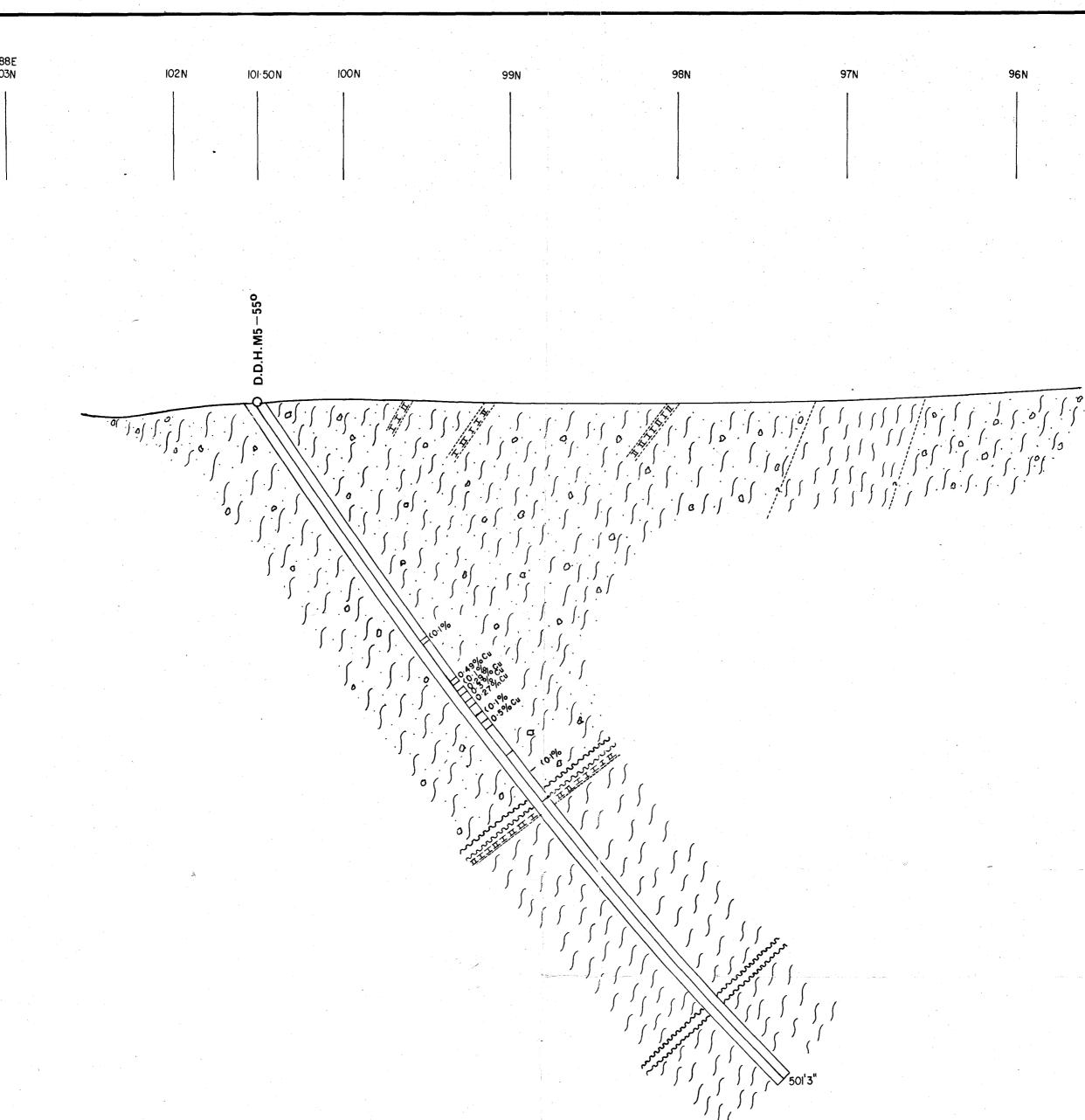
COMPANY -

DIAMOND DRILL CORE RECORD

		1800		PROSP	ECT	-17 FELEN (17 11 20; UN 12 10 10 11 11 11 11 11 11 11 11 11 11 11			<u>.</u>			00	89					
Hole No.:			<u> 1948 - 1950 - </u>	Loca:	ion of Site:				Red	uced Leve	l of S	ite: _	·	*****			<u>. 4</u> 1	
										ring of H								
Depth:			<u> </u>	Date	Completed:				Dip	of Hole:							<u> </u>	<u>.</u>
Core Reco	very:			Samp1	ing By:		****		Geo	logical L	ogging	Ву:						
Survey Dat	ta:			4 j					ĺ				2.1				- 61	
		GEOI	OGICAL L	O G	(_	****		-		ASS	ΑΥ	RES	UL	T S				
From Ft. Ins.		Core Recov. %	DES	C R	PTION		Sample No.			To Ft. Ins							and the second	
827'1"	83214"	100%	Chloritic schist	as ab	ove. Minor	thin				*	2.5		1.11		5.77	1	1	
			carbonate veins.	1.						4.15	1. s. sv:							-
83214"	84010"	100%	Chloritic schist	s with	lensoid qtz	and carbonate				, the base, let	11.			1.5%	Vis.			
			P				1							T			1:	

frags, possibly remnant vesicles. Irreg. qtz and carbonate banding. 840'0" 849'4" 100% As above - sch 70° 849'4" 86016" 100% As above. END OF HOLE.





LEGEND



Quartz Muscovite Schist



Chloritic Schist



Quartz Veins

Shear Zones

FIG.3

LONGREACH GROUP MANAGEMENT PTY. LTD.

LONGREACH METALS N.L.

S.M.L. 551 MUTOOROO RIDGE PROSPECT

SECTION THROUGH D.D.H. M.5 ALONG LINE 188E LOOKING EAST

SCALE I" = 50'

BASED ON

DRAWN BY Greg Croft REVISED DATE

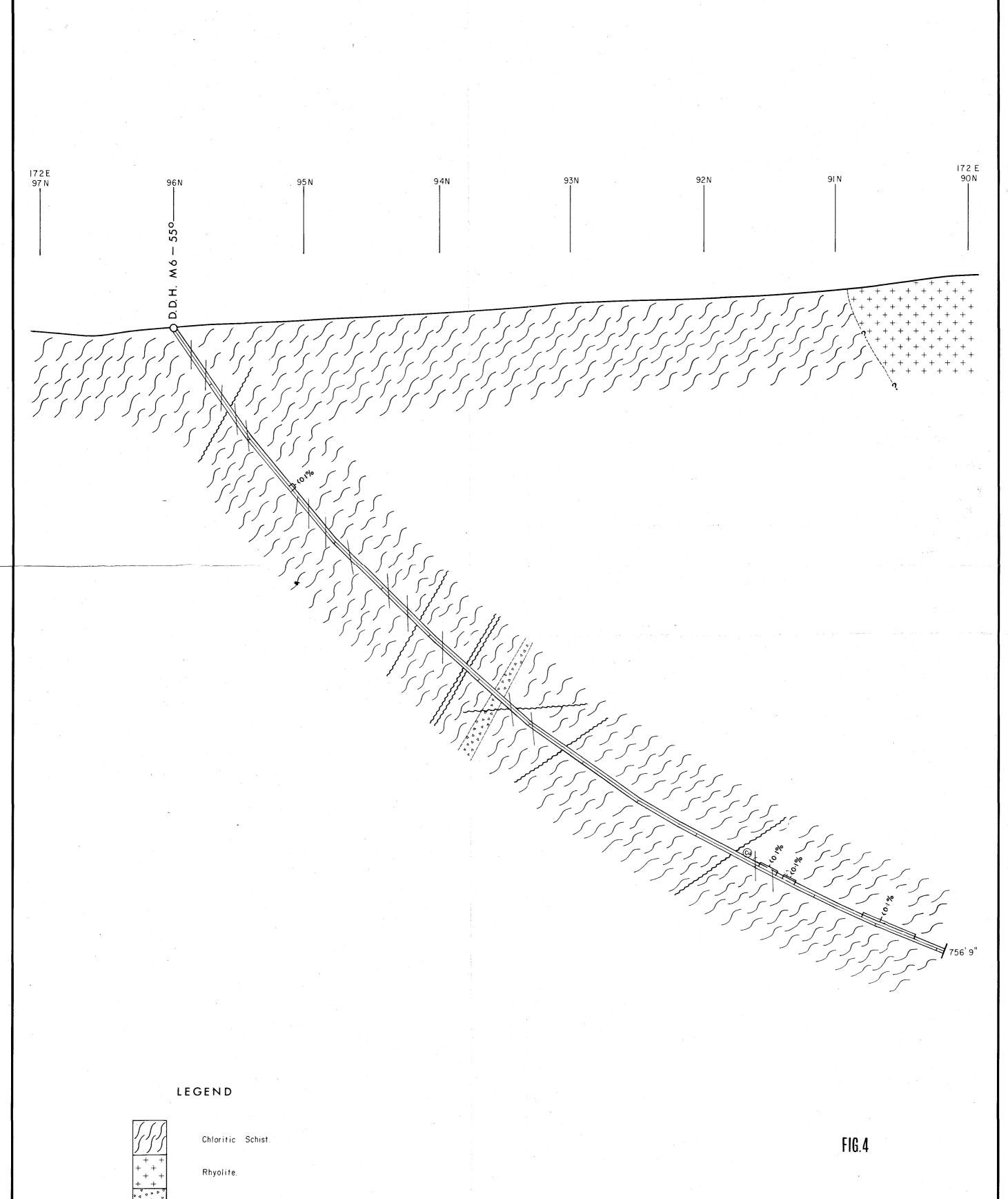
DATE 6th July 1971

APPROVED BY M.Chatenay

UTM CODE

ENV 1632-2

A OCT 1971
DEPT. OF MINES
SECURITY
1632



ENV 1632-3

Breccia.

Trend lines.

Shear zone.

Copper mineralization.



LONGREACH GROUP MANAGEMENT PTY. LTD.
LONGREACH METALS N.L.

S. M.L. 551

MUTOOROO RIDGE PROSPECT

SECTION THROUGH D.D.H. M6 ALONG LINE 172E LOOKING EAST

SCALE 1":50'

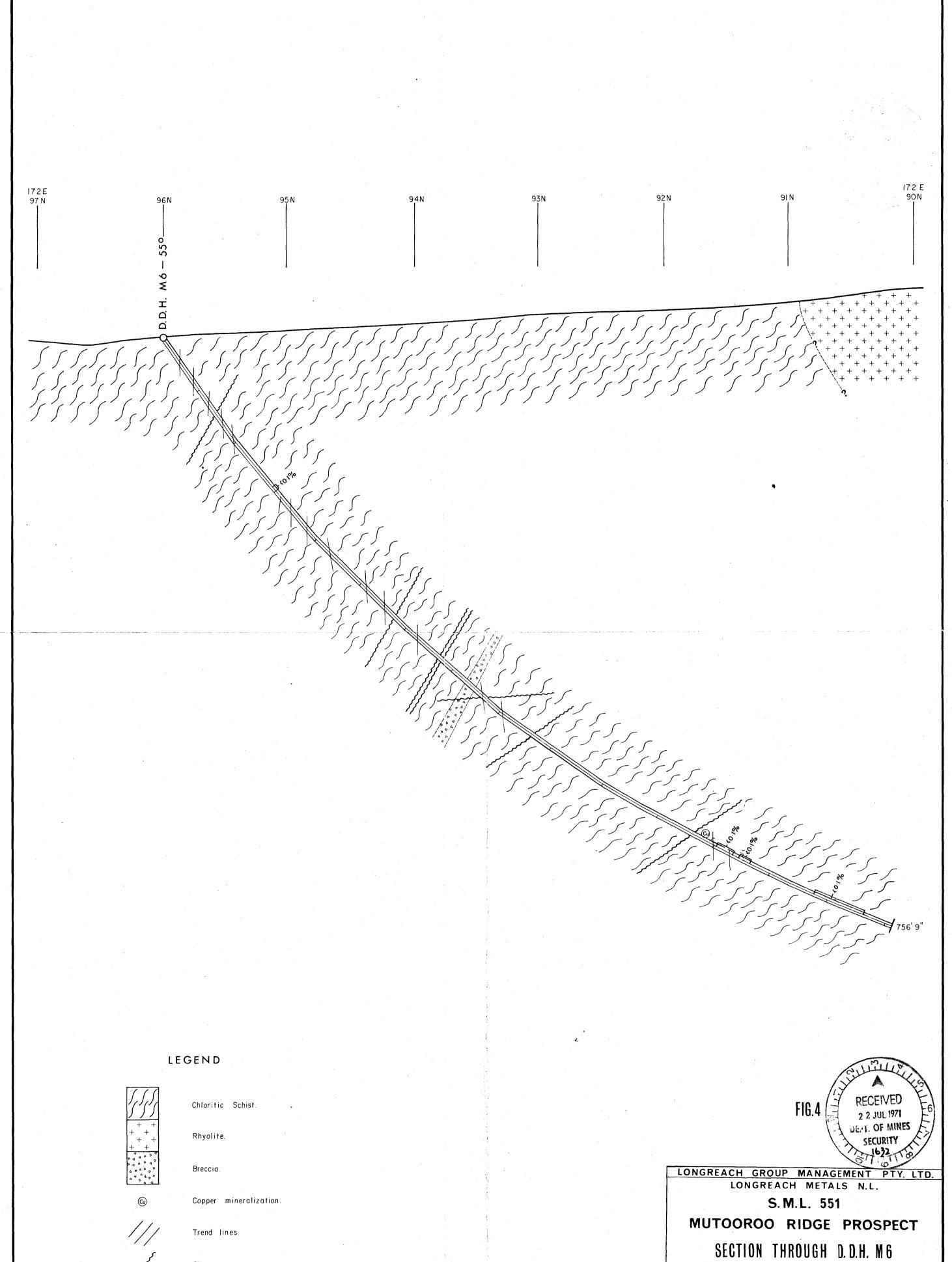
BASED ON

DRAWN BY A.C. Edwards REVISED DATE

DATE 5th June 1971.

APPROVED BY

UTM CODE



ENV 1632-4

Shear zone.

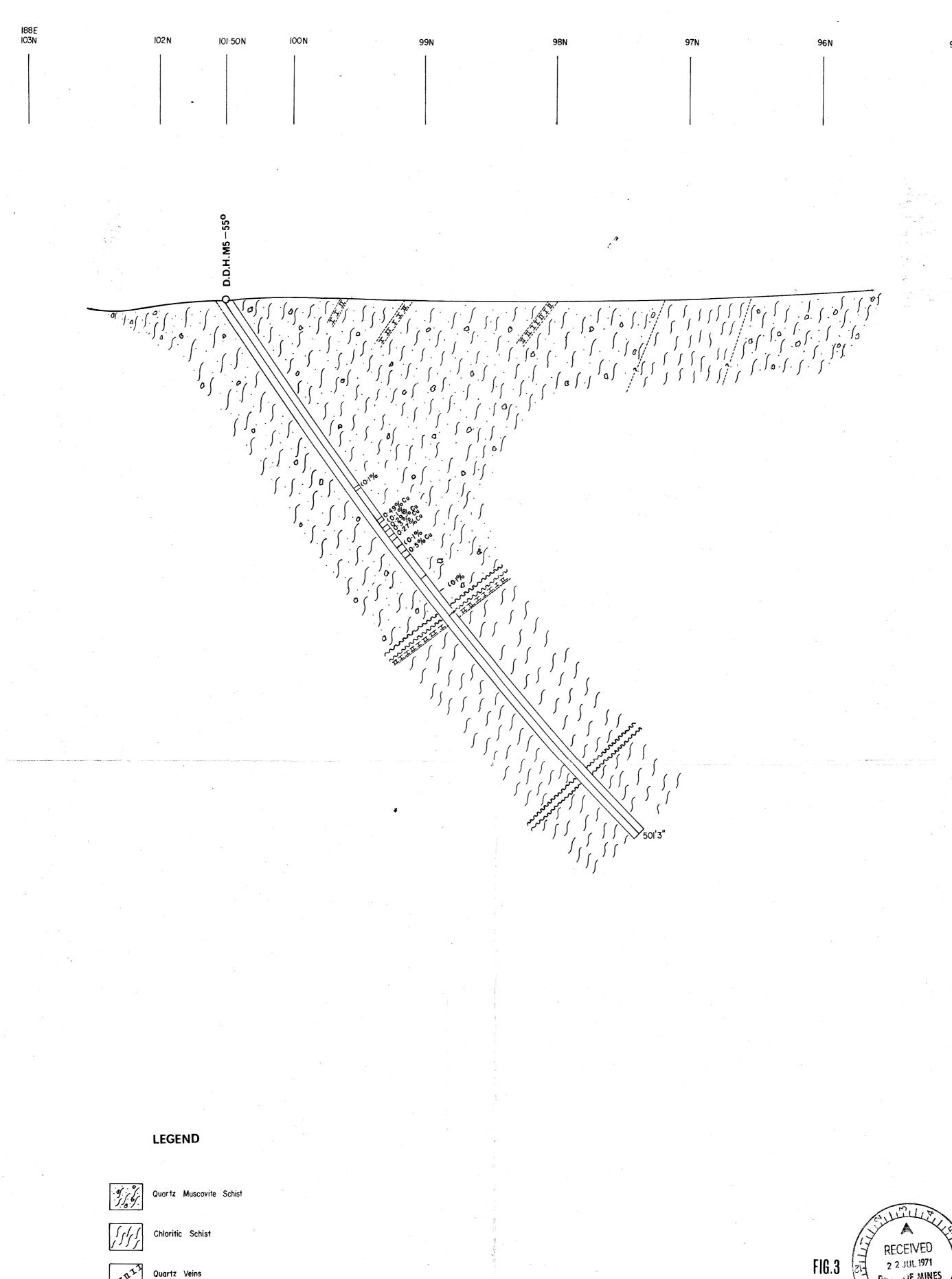
ALONG LINE 172E LOOKING EAST

REVISED

DWG. No.

SCALE I":50'

DRAWN BY A.C. Edwards
DATE 5th June 1971.
APPROVED BY
UTM CODE



ENV 1632-5

Shear Zones

FIG. 3 21 2 2 JUL 1971

BL. OF MINES

SECURITY

1632

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LONGREACH GROUP MANAGEMENT PTY. LTD.

LONGREACH METALS N.L.

S.M.L. 551 MUTOOROO RIDGE PROSPECT

SECTION THROUGH D.D.H. M.5 ALONG LINE 188E LOOKING EAST

SCALE |" = 50'

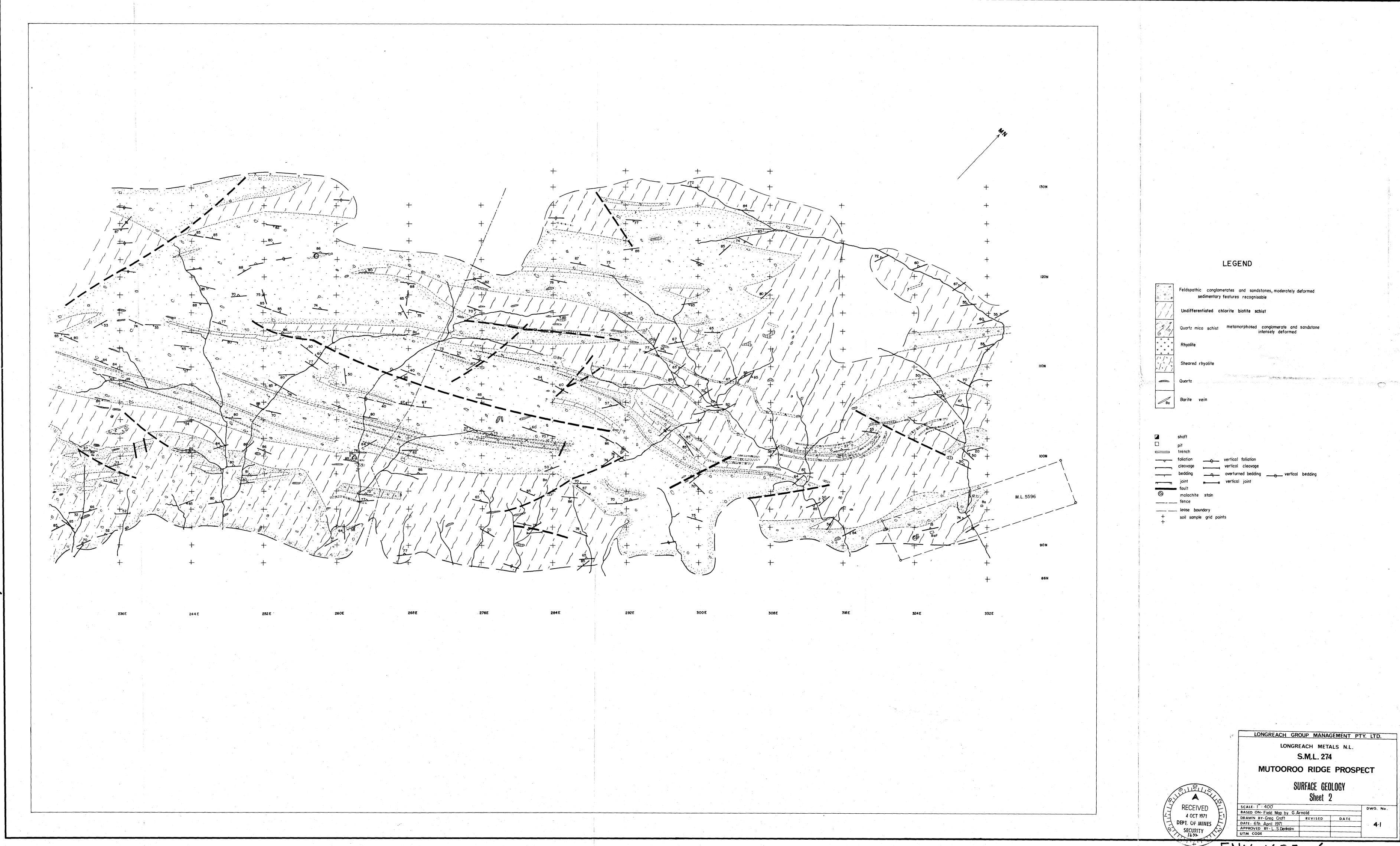
BASED ON

DRAWN BY Greg Croft REVISED DATE

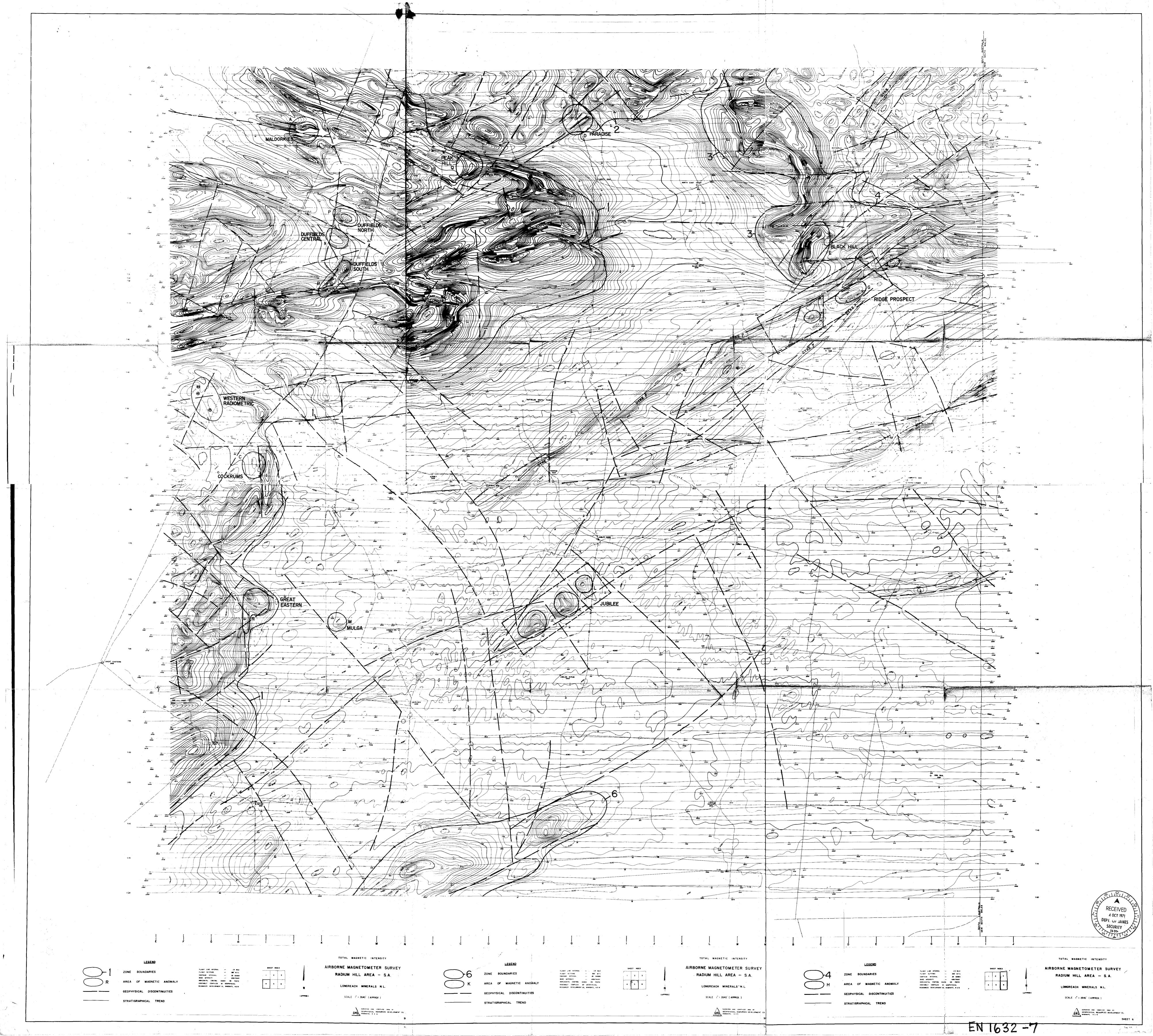
DATE 6th July 1971

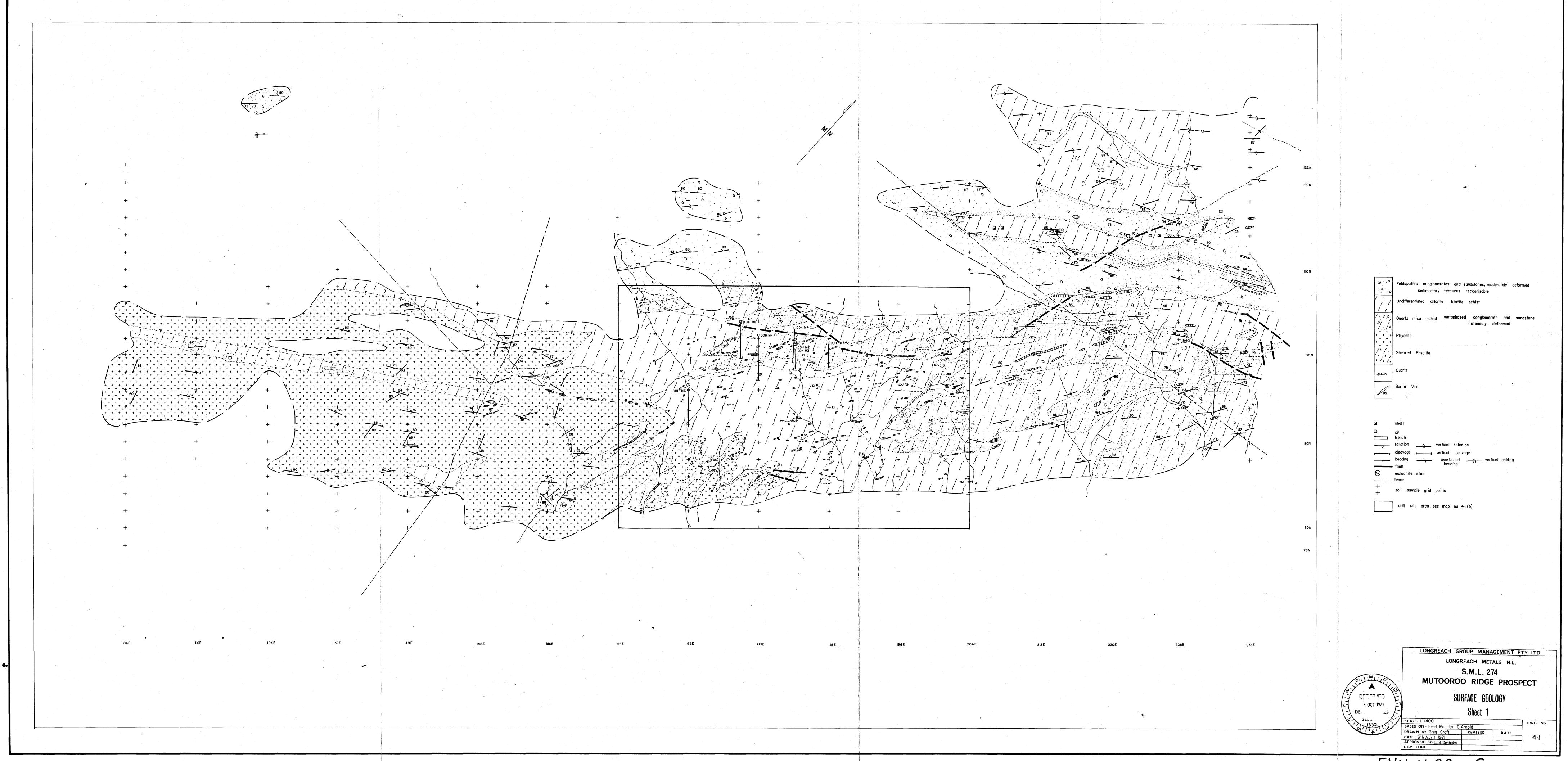
APPROVED BY M.Chatengy

UTM CODE



ENV. 1632-6





LEGEND Chloritic Schist. LONGREACH GROUP MANAGEMENT PTY. LTD. LONGREACH METALS N.L. S.M.L. 551 MUTOOROO RIDGE PROSPECT Breccia. SECTION THROUGH D.D.H.M7 ALONG LINE 180E LOOKING EAST

SCALE (": 50"

BASED ON

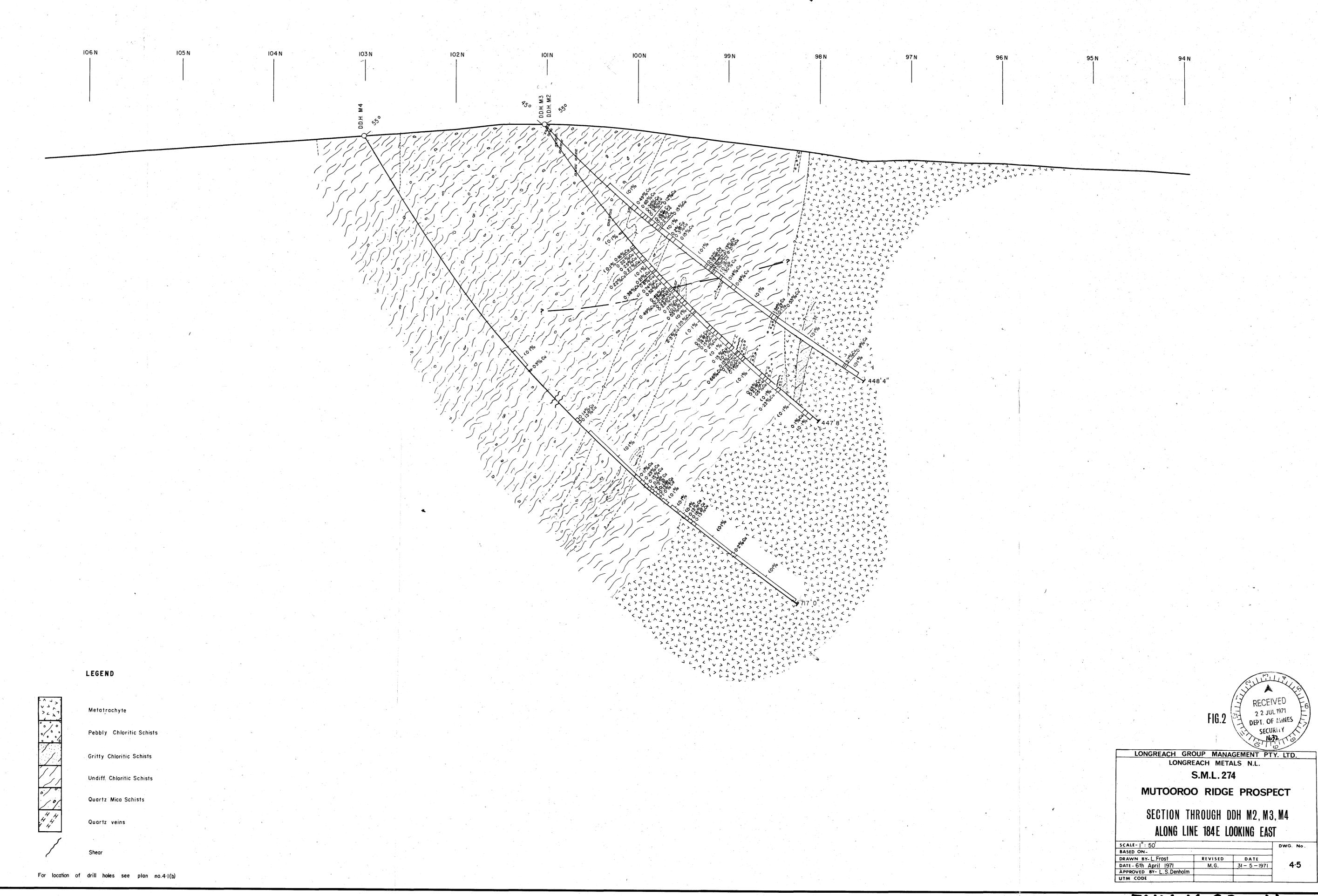
DRAWN BY A.C. Edwards REVISED DATE

DATE 6th June 1971

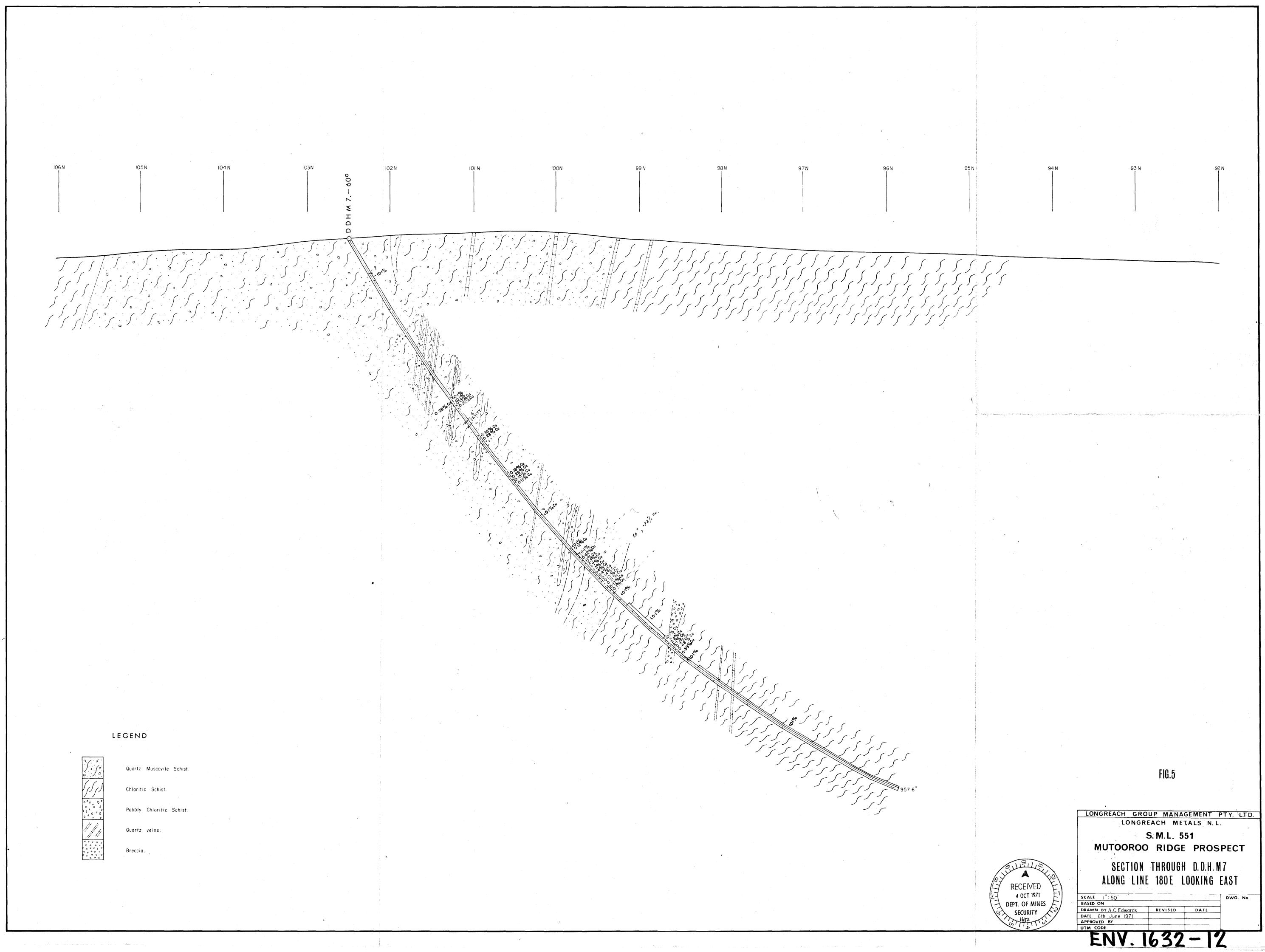
APPROVED BY

UTM CODE

ENV 1632-10



ENV 1632 - 11



LEGEND Quartz Muscovite Schist Chloritic Schist Grey Phyllitic Schists Shearing

FIG.8

LONGREACH GROUP MANAGEMENT PTY. LTD.

LONGREACH METALS N.L.

S.M.L. 627

S.M.L. 627 MUTOOROO RIDGE PROSPECT

SECTION THROUGH D.D.H. M8 ALONG LINE 178E LOOKING EAST

SCALE: 1" = 50'

BASED ON Field Plan by A Edwards

DRAWN BY M Chatenay REVISED DATE

DATE 23 Sept 7!

APPROVED BY D Clare

UTM CODE

ENV 1632 - 13

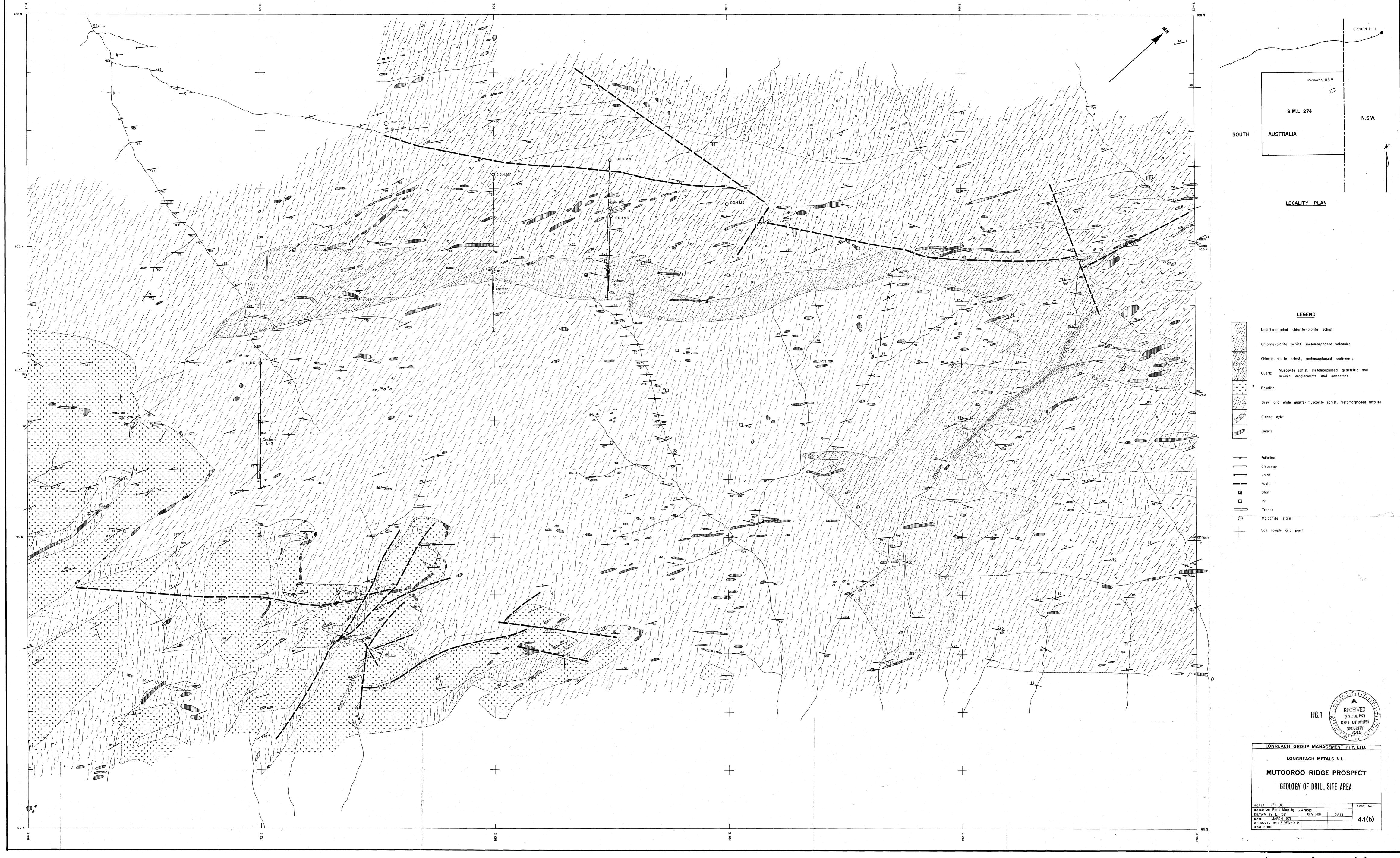
RECEIVED

4 OCT 1971

DEPT. OF MINES

SECURITY

1632



ENV 1632-14