DEPARTMENT OF MINES, TASMANIA—DRILLING RECORD.

7825

Locality: TENTH LEGION IRON ORE DEPOSITS ZEEHAN Drill: GOLDFIELDS NO.10 DIAMOND DRILL

Bore No.: 2 Commenced: 10:12:57 Completed:

Location of Bore: 6 MILES FROM ZEEHAN AND NORTH OF TRIAL HARBOUR ROAD

Co-ordinates of Collar: AMG Co-ords: 355440E 5361360N R.L. of Collar: Ref No: 1922

Bearing: 190° Inclination: 60° DEPRESSION Final Depth:

BORE LOG

Date	Footage	Total Depth	From	To	Core	Thickness	Particulars of Core
1957..			0	12'	BX 6"	12'	Argillite pieces - Very broken, oxidised
			12'	26'	2'	14'	Hard Argillite - Some weathering
DEC. 10	14	14	26'	27'	6"	1'	"
" 11	13	27	27'	31'	1'6"	4'	"
" 12	13	40	31'	41'	AX 2'	10'	Hard Argillite - Some secondary silicification
" 13	13	53	41	53'	1'6"	12'	" (weathered)
" 16	2	55	53'	55'	4"	2'	"
" 18	5	60'	55'	57'	6"	2'	Soft Argillite
" 19	2	62'	57'	58'	9"	1'	Argillite - Some Silicification
" 20	9'	71'	58'	60'	4"	2'	Quartzite - Weathered
" 23	12	83'	60'	63'	3"	3'	"
" 24	14'	97'	63	65'	3"	2'	Soft Argillite - very weathered - Some Calcite veinlets
" 30	16'	113	65'	67	EX 7"	2'	Serpentine
" 31	27'	140	67'	69'	9"	2'	Serpentine - Calcite Vein
1958			69'	71'	1'6"	2'	Serpentine
Jan 2	14'	154	71'	73	1'2"	2'	"
" 3	17'	171	73	77	3'5"	4'	Serpentine - nearly all altered to Calc-Silicate
" 6	11'	182	77	80	3'	3'	Serpentine altering to Calc-Silic. - Sep. 78'-79'
" 7	10'	192	80	88	1'	8'	Mainly ~~magnetite~~ Sep. - Magnetite 86'6" - 87'6" (Patina Magnetite)
" 8	10'	202	88	90	1'4"	2'	Sep. altering to Calc-Silicate - Some Mag. - Breccia like rock
" 9	11'	213	90'	92'6"	2'	2'6"	Breccia - like rock - little magnetite
" 10	10'	223	92'6"	95'	1'7"	2'6"	Mainly Magnetite
			95	97'	1'5"	2'	Magnetite to 96'8" - then Calc-Silicate
			97	99	1'5"	2'	Calc-Silicate - Very ~~Spare~~ magnetite
			99	105'	4'6"	6'	" (burning weathered)
			105	113'	8'	8'	Sep. altering to Calc-Silic. - Breccia appearance - calcite 105'6"
			113	123	10'	10'	Sep. altering to Calc-Silic. - Sparse magnetite
			123	127	4'	4'	"
			127	140	8'	13'	" (weathered - oxidised 130-145')
			140	143	1'	3'	" (Calcite veins 141-142')
			143	150	4'6"	7'	" (magnetite 141-146')
			150	152	1'	2'	"
			152	154	2'	2'	" (Calcite at 153'6")

Details of Ore Intersection

	% HCl Soluble Iron
86-87 / 93-97	43.5
160-170	27.7
~~170~~	
210-220	11.1
220-230	16.6
230-240	29.1 cemented hole
240-250	35.3
250-258	28.3
~~258~~	
280-288	33.4

Assay No 1 & No 2

% Ni

~~0.010~~ 0.010

0.012

96' 230'

3 4 5 6 7 8 9 10

DEPARTMENT OF MINES, TASMANIA—DRILLING RECORD.

7825

Locality: TENTH LEGION IRON ORE DEPOSIT Dist.: GOLDFIELDS NUMBER TEN.

Bore No.: 2 Commenced: 10.12.57 Completed: 24.1.58

Location of Bore: 6 MILES FROM ZEEHAN AND NORTH OF TRIAL HARBOUR ROAD

Co-ordinates of Collar: R.L. of Collar:

Bearing: 190° Inclination: 60° DEPRESSION Final Depth: 309'

BORE LOG

Date 1958	Footage	Total Depth	From	To	Core	Thickness	Particulars of Core	Details of Ore Intersection
			154	159	5'	5'	Serp. altering to Calc-Silic. (25° Core Axis)	
			159	160'8"	1'8"	1'8"	"	
JAN 13	13'	236	160'8"	171	5'6"	10'4"	Mainly Magnetite (170-171 Serp.)	
" 14	12'	248'	171	176	2'6"	5'	Serp. with sparse magnetite (Calc-Silic. 175'-176')	
" 16	5'	253'	176'	178'	1'	2'	Serp. altering to Calc-Silic-little magnetite-pyrite	
" 17	15	268'	178	181	1'9"	3'	Serp. with. sparse magnetite	
			181	181'6"	4"	6"	" (some pyrite)	
" 20	10	278'	181'6"	186'	3'4"	4'6"	Serp. altering to calc-silicate	
" 21	6	284'	186	190'	3'	4'	" (sparse magnetite)	
			190	192'	2'	2'	"	
" 22	8	292'	192	194	2'	2'	" (little pyrite)	
" 23	8	300'	194	201'	3'	7'	"	
			201	202	1'	1'	" (sparse magnetite)	
" 24	9	309.	202	299	6'6"	7'	"	
			209	209'6"	6"	6"	Serpentine	
			209'6"	213'	3'6"	3'6"	Serpentine - Magnetite	
			213	220	7'	7'	Serpentine altering to Calc-Silic. - Intermittent Magnetite	
			220	223'	1'6"	3'	Serpentine - Magnetite	
			223	245	18'	18'	Mainly Magnetite - little Serp.	
			245'	248'	1'	3'	Magnetite - Quartz - little Serp.	
			248'	251'	3'	3'	Calc-Silic. with little magnetite	
			251	255	4'	4'	Magnetite in Calc-Silicate	
			255	261'	5'	5'	Calc-Silicate (May 257'-258')	
			261	276'	12'	15'	Calc-Silicate with sparse magnetite	
			276'	280	3'	4'	Calc-Silicate	
			280	281	1'	1'	Mainly Magnetite	
			281	284'6"	1'6"	3'6"	Mainly Magnetite - many Calc-Silicate	
			284'6"	287'	1'6"	2'6"	Serp. altering to Calc-Silic (281-) some pyrite) some magnetite	
			287	309'	15'	22'	Serp. altering to Calc-Silic.	

0123

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 1/2

TENEMENT NAME TENTH LEGION No. M.L. 53M

PLAN – MAP REFERENCE

CO-ORDINATES 4946 N / 5327 E AZIMUTH 190° Grid (approx) DRILLERS MINES DEPT (TAS.) COMMENCED 1958 DEPTH 94.2 m. HOLE No. Mines Dept Hole 2.(1958)

RL COLLAR INCLINATION -60° DRILL TYPE COMPLETED CASING LEFT DPO No(s)

DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by CONLABS) Cu	Pb	Zn	Ag	Sn	W
		AX ↓ 8.2 m	Ss/qs	0-26.1 Sediments Hard brown and grey hornfelsed siliceous sediments – siltstones and minor ghtites + shales. Brecciated & no bedding measurable. Core disordered 8.2-22.1m.	0-8.2 Bleached + weathered, no min. 8.2-26.1 minor qtz-epidote veining, rare thin calcite veining, trace py.										
		EX	S/M	26.1-26.8 SERPENTINITE, minor MAGNETITE mag 15% down to 2% Dark green massive serpentinite, shot through with thin calcite veins and pebbles diseem. magnetite		GRIND SAMPLES.									
						973861	26.1	26.8	0.6	55	12	350	1	170	80
						862	26.8	27.0?	1.2	24	24	350	1	95	120
			Css	26.8-?27.0 CALC SILICATE SKARN Medium hard serpentinised Cst rock with thin veinlets and segregations of mag.	26.8-27.0 Brecciated fabric – appears to be mag rich Css rehealed by calcite + dolomite.	863	?27.0	29.5	0.6	24	34	250	1	100	150
		CORE IS DISORDERED	M	27.0-29.5 MAGNETITE hard black mag with serpentinite and minor Css as remnants	27.0-29.5 Mag 20-60% av 50% Core has previously been sampled										
			Css /Cst	29.5-48.9 CALC SILICATE ROCK Bone coloured f.gr. tremolite rock, recrystallised, with minor magnetite and serpentinite segregations and veining in places		864	29.5	32.0	2.0	12	130	350	1	18	10
				48.9-52.1 SERPENTINITE/MAGNETITE. Dark bottle green massive serpentinite with 2-30% magnetite, average 20%		865	48.9	52.1		12	12	300	1	50	40
			(b) ss/sh	52.1-60.8 SEDIMENTS Dark grey shales/siltstones, brecciated in places pale grey and metasomatised to Cst rocks											
			Cst	60.8-63.7 CALC SILICATE ROCK Pale grey + brown hornfelsed f.gr. sediments. Minor mag/serp. veining + segregations.											

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DRILL CORE LOG

SHEET No. 2/2

TENEMENT NAME TENTH LEGION No ML 558/75

PLAN – MAP REFERENCE

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. Hole 2 (Mines Dept)

RL COLLAR ..... INCLINATION ..... DRILL TYPE ..... COMPLETED ..... CASING LEFT ..... DPO No(s) .....

DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by COMLABS) Cu	Pb	Zn	Ag	Sn	W
		EX	Dol/M	63.7–67.8? DOLOMITE WITH MAGNETITE Pale grey recryst dolomite with mag/serp veining and segregations. The upper 0.3 m is massive serpentinite with mag 20%–40%. Overall mag is around 5–7%.		866	63.7	67.8	1.85	12	300	550	1	55	15
			S/M	?67.8–74.7 MAGNETITE/SERPENTINITE Massive dark green serpentinite with disseminated magnetite 5–70%		867	67.8	69.5	1.0	26	30	1100	1	190	35
				mag 20–30%. Recovery poor, minor thin calcite veining and small		868	69.5	71.9	1.05	10	6	450	2	610	50
				corestones of incompletely serpentinised Cst/dolomite.		869	71.9	74.7	0.7	16	-4	600	1	660	80
			Dol	74.7 – ?85.6 DOLOMITE Massive pale grey crystalline dolomite with irregular stylolite-like segregations of pale green serpentine and magnetite. Total mag 3–5%											
				85.3 → 94.2 (E.O.H.) CORE DISORDERED											
				?85.6 – ?86.9 SERPENTINITE/MAGNETITE. Dark olive green/bottle green serpentinite with diffuse mag. 30–40%.		870	?85.6	?86.9	0.5	44	16	450	2	2250	30
			Cst	?86.9 – 94.2 CALC SILICATE ROCK Bone coloured f.gr. disrupted and brecciated tremolite rock,											
				mottled with pale green ?diopside, occasional patches epidote, rare											
				brownish garnet and minor pinkish Mn silicates. Sparse blebs magnetite.											
				END OF HOLE 94.2 m. (309')											