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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 1

TENEMENT NAME TENTH LEGION No. 5M/75

PLAN – MAP REFERENCE TASH 2 TASH 17

3439·17N

CO-ORDINATES 4852·40E AZIMUTH 315° GRID DRILLERS S RIMAK COMMENCED 20·3·81 DEPTH 119·5 m HOLE No. T.L.C.5

RL COLLAR 235 m INCLINATION −50° DRILL TYPE BOYLES 37 COMPLETED 31·3·81 CASING LEFT 3m NW (collar) DPO No(s) 26672 26671, 26670

DEPTH From (M)	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 ANALABS) Cu	Pb	Zn	Ag	Sn	W	Au	
					TRICONED TO 3·0m – NO CORE													
3·0	4·6	1·4	NQ	Cst	3·0–7·4 CALC SILICATE ROCK	3·0–7·4 Well fractured and broken;	932107	3·0	5·2	2·2	5	45	320	1·0	140	×		
4·6	5·7	1·2	to 30m		Pale grey, pink and green tremolite-	pale green epidote veining.	108	5·2	5·4	0·2	10	745	2850	1·5	140	15	0·025	
5·7	8·0	2·4			diopside rock. Very hard, fine grained	7·4–8·0 Pale green epidote 20–25% of rock	109	5·4	7·4	2·0	15	175	1100	0·5	45	×		
8·0	11·0	3·0			, weakly and randomly banded, and	mottled green and white, metasomatised.	877781	7·4	8·2	0·8	15	80	470	1·0	210	×		
11·0	13·6	2·6			fractured, with a cross cutting	8·0–8·3 Barren pink and green calc silicate	782	8·2	9·6	1·4	10	215	1150	2·0	540	×		
13·6	16·0	2·4			network of epidote veins.	8·3–9·6 40–50% yellow-green epidote.	783	9·6	10·7	1·1	90	35	165	0·5	45	×		
16·0	17·6	2·0			Most veins around 15–20° LCA.	9·6–10·7 Trace py, epidote 2·3%.	784	10·7	11·7	1·0	45	20	105	×	70	×	×	
17·6	21·5	3·9		Css	7·4–23·5 CALC SILICATE SKARN	10·7–11·7 Pink and green calc silicate; minor	785	11·7	13·2	1·5	10	15	120	0·5	150	×		
21·5	23·2	1·8			As above, but grossly altered and	epidote.	786	13·2	14·4	1·2	10	10	580	0·5	60	×		
23·2	24·6	0·9			metasomatised fabric – greens – pinks	11·7–13·2 Epidote veining; some pink ?garnets	787	14·4	15·5	1·1	10	30	450	1·0	65	×		
24·6	25·6	1·0			– greys and yellow-greens (epidote)	or ? idocrase.	788	15·5	17·1	1·6	20	25	590	0·5	40	×	×	
25·6	27·6	2·0			Some intervals rather greyer and less	13·2–14·4 Greyish breccia, barren.	789	17·1	18·2	1·1	40	25	240	×	1700	×		
27·6	30·0	2·4			altered, with apronounced breccia	14·4–17·1 Mixed breccia (grey) and minor	790	18·2	19·5	1·3	10	30	430	×	170	×		
30·0	31·5	2·0			fabric.	pink and green intervals with epidote.	791	19·5	19·8	0·3	660	240	480	1·5	2300	×		
31·5	34·3	2·9				17·1–17·6 Chloritic alteration – crystalline	792	19·8	20·5	0·7	5	10	55	×	170	×	×	
34·3	37·5	3·2				chlorite/phlogopite 30% of rock	793	20·5	20·8	0·3	5	15	135	0·5	290	×		
37·5	40·3	2·8				17·6–18·2 Massive dark green chloritic	794	20·8	22·3	1·5	120	5	1150	0·5	70	×		
40·3	43·5	2·6			18·2 Contact 45°	rock, minor epidote, traces py in veinlets.	795	22·3	22·8	0·5	40	5	2650	0·5	35	×		
43·5	46·5	3·0			18·2–19·4 Weakly banded grey calc	18·2–19·4 Green ? chloritic bands.	932110	22·8	25·0	2·2	35	20	340	×	45	×		
46·5	49·5	3·0			-silicate rock. 18·7 banding 55°.	19·4–19·8 Felted mass of ?tremolite in a	111	25·0	25·4	0·4	5	20	465	×	140	×		
49·5	52·4	2·9			19·4–23·5 Grossly brecciated grey rock	dark green-grey matrix (or v.v.)	112	25·4	26·6	1·2	30	10	1000	×	30	×	×	
52·4	55·5	3·1			with dark green-grey interstitial material	19·8–20·2 Green-grey barren calc silicate	113	26·6	27·7	1·1	85	15	1750	×	15	×		
55·5	58·5	2·9			(chloritic) in a felted mass of ?tremolite	20·2–20·8 As for 19·4–19·8	869969	27·7	31·3	3·6	86	13	63	<1	6	40		Grind samples.
58·5	61·5	3·0			19·8 Contact 45°	20·8–23·5 No obvious mineralisation.	970	31·3	35·2	3·9	23	16	66	<1	<4	30		
61·5	64·5	3·0			20·8 " 40°	, trace sp at 22·3 m.	971	35·2	38·5	3·3	5	810	1320	4	175	40		
64·5	67·5	3·0			Contact 45°		877796	38·5	40·2	1·7	5	175	380	1·5	140	15	×	
67·5	70·3	2·8		Cst	23·5–69·9 CALC SILICATE ROCK	23·5–40·7 Coarse gr. chlorite in	797	40·2	40·7	0·5	5	95	160	1·0	170	×		
					Pale greeny-grey diopside-tremolite	irregular patches, usually some	869972	40·7	46·4	5·7	33	36	155	<1	55	30		Grind samples
					rock crystalline; minor irregular patches	intergrown magnetite. Traces po, py	973	46·4	51·5	5·1	83	16	122	<1	8	40		
					of crystalline chlorite. Thin epidote veining,	sp also. Some pink garnet? (idocrase?)	974	51·5	56·3	4·8	28	180	860	<1	36	10		

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DRILL CORE LOG

SHEET No. 2
TENEMENT NAME. TENTH LEGION No. 5IM/75
PLAN – MAP REFERENCE
CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. TLC5.
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH From (M)	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.....) Cu	Pb	Zn	Ag	Sn	W	Au		
70·3	74·4	3·1	NQ		23·5–69·9 cont...		869975	56·3	65·0	8·7	13	12	43	<1	6	20		Grind	sample
74·4	77·5	3·1	to 30m		Most alteration contacts approx 45-50°.	40·7–69·9 Sparse epidote veins, rare	877756	58·5	60·0	1·5	95	105	160	0·5	15	×	0·042		
77·5	80·5	3·1	BQ		Gradually becomes harder and whiter	blebs py: Barren.	757	60·0	61·5	1·5	5	40	60	×	9	×			
80·5	83·5	3·0	30m		with depth; alteration diminishes		758	65·0	66·6	1·6	5	30	55	×	9	×			
83·5	86·2	2·8	↓		from small patches every 0·5m to		759	66·6	67·7	1·1	5	25	50	×	70	×			
					thin veinlets and discrete zones every		760	67·7	69·0	1·3	35	35	55	×	40	×	0·050		
					1m, then gradually becomes more		761	69·0	70·3	1·3	175	15	55	×	×	×			
					sporadic. Disruption and brecciation		869976	70·3	76·3	6·0	12	11	48	<1	<4	30		} Grind	samples
					decreases, and bedding becomes		977	76·3	80·2	3·9	19	18	50	<1	<4	25			
					progressively more parallel to LCA via:		877762	80·2	82·0	1·8	5	15	35	×	5	×			
					37·0 Bedding 20°		763	82·0	82·9	0·9	5	10	30	×	×	×			
					45·2 Bedding 20°		764	82·9	83·7	0·8	×	15	45	×	3	×	0·033		
					49·8 Bedding 13°		765	83·7	84·7	1·0	×	15	35	×	6	×			
					49·6–55·0 Brownish patch of		766	84·7	85·5	0·8	90	15	50	×	10	×			
					siltstone? Bedding at higher angles														
					to core. White alteration is still present		932302	12·3	}										
					along fractures and in small bands.		303	60	} THIN SECTION SAMPLES.										
					52·5 ? Bedding 45°	58·5–60·4 Zone of green alteration	304	70·5	}										
					56·2 ? Bedding 55°	– mottled diopside? with traces py, po tremolite	305	88	}										
					60·4 contact 40°		932316	19·6m	– Mineragraphic Sample.										
					64·4 Bedding 50°	65·0–65·9 Mottled pale green crystalline													
						tremolite/diopside.													
						65·9–69·9 Traces po, py disseminated													
				↓	Contact 30°	blebs along or around small cracks.													
				q/(qs)	69·9–85°0 QUARTZITE?	69·9–80·2 Barren – no mineralisation.													8
					White rock with coarse qtz grains	80·2–82·0 Disseminated epidote 10%.													8
					in a white f.gr sericitic? matrix	82·0–82·9 Barren – f.gr. 'calc silicate'													8
					Originally and impure quartzsandstone?	thin epidote stringers.													8
					Massive and featureless, some	82·9–83·7 Disseminated epidote in qtzite, 10%.													8
					qtz segregations and occasional	83·7–85·0 Minor epidote stringers.													8
				↓	thin cherty beds of altered seds.														8

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DRILL CORE LOG

SHEET No. 3

TENEMENT NAME TENTH LEGION No 5M/75

PLAN – MAP REFERENCE

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH 119·5 m. HOLE No. TLC5.

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

DEPTH From (M)	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 .....) Cu	Pb	Zn	Ag	Sn	W	Au			
36·2	89·5	3·3			83·7 - Alteration at 35° LCA		877767	85·5	86·9	1·4	15	10	20	x	x	x				
89·5	92·5	3·0			Bedding at 25° to LCA		768	86·9	88·3	1·4	10	15	30	x	15	x	0·017			
92·5	95·5	3·0			84·1 - 85·0 Contact b/w qtzite and ? calc		769	88·3	89·6	1·3	x	5	20	x	5	x				
95·5	98·3	2·8			silicate rocks – 2°.		770	89·6	91·2	1·6	x	10	20	x	4	x				
98·3	101·2	2·9		?Cst	85·0 - 89·5 ? Calc Silicate Rock or	85·0 - 85·5 py - po - epidote - chlorite	771	91·2	92·4	1·2	x	10	25	x	10	x				
101·2	104·3	3·0		ss/ch?	Siltstones/cherts.	stringers 10%.	772	92·4	94·0	1·6	85	10	60	x	9	x	0·017			
104·3	107·2	2·9			Pale brown finely bedded rock, as	85·5 - 89·5 traces po, py as blebs	773	94·0	95·4	1·4	240	20	75	0·5	6	x				
107·2	110·5	3·3			above 40·7 - 69·9 m, minor qtzite	assoc with fractures. Thin epidote veinlets.	774	95·4	96·2	0·8	35	10	40	x	5	x				
110·5	113·5	2·8			interbeds.		775	96·2	97·2	1·0	40	15	45	x	10	x				
113·5	116·5	3·0			85·6 Bedding 30°		776	97·2	98·0	0·8	x	25	125	x	80	x	0·142			
116·5	119·5	3·1			Contact 15°		869978	98·0	102·9	4·9	50	9	81	<1	4	60				
				q	89·5 - 91·7 QUARTZITES	89·5 - 91·7 Traces dissem epidote,	979	102·9	109·3	6·4	60	59	24	<1	18	75				
					See above, 69·9 - 85·0 for description.	barren.	980	109·3	119·5	10·2	170	12	122	<1	6	110				
					Contact 80°, faulted.															
				?Cst	91·7 - 112·4 ? CALC SILICATE ROCK	91·7 - 92·4 Barren pink and green														
					Green and pale brown f. gr. rock	calc silicate rock, bedding 2 - 10° LCA														
					as above, 40·7 - 69·9. Some thin	92·4 - 97·6 Deformed and brecciated														
					qtzite interbeds to 5 cm thick	, with alteration along breccia paths														
					92·5 Bedding <5°	and 1-2% py and po as interstitial														
					103·0 Bedding <5°.	blebs, rarely dissem along quartzite														
					Contact 80°, brecciated	interbeds. Qtz - epidote veinlets and														
				q	112·4 - 116·2 QUARTZITE	stringers.														
					As above, but with some pinkish	97·6 - 104·1 Sparse thin qtz - epidote														
					and greenish minerals - originally	stringers with 2-3 m white bleached														
					carbonate rich?	alteration haloes.														
					Contact 4° - - - - - - - -	104·1 - 105·6 Breccia zone - qtz epidote	877777	104·1	105·6	1·5	40	90	195	1·5	100	40				
				?Cst	116·2 - 119·5 ? CALC SILICATE ROCK	stockwork (10%)	778	112·4	113·2	0·8	15	40	105	0·5	15	x				
					See above, 40·7 - 69·9, for description	105·6 - 112·4 See 97·6 - 104·1	779	113·2	114·8	1·6	15	30	60	x	20	x				
					118·0 Bedding 25°	112·4 - 116·2 Sparse dissem. epidote and	780	114·8	116·2	1·4	x	25	55	x	20	x	0·017			
						a pinkish mineral - garnet(?) or ? idocrase.														
					END OF HOLE 119·5 m.	116·2 - 119·5 Minor qtz - epidote stringers.														

Grind Samples