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C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1TENEMENT NAME TENTH LEGION No. 53M/75PLAN - MAP REFERENCE TASH. 2 TASH. 11

CO-ORDINATES 4956.3 N 5198.9 E AZIMUTH 180° Grid DRILLERS S. RIMAK COMMENCED 19.2.81
RL COLLAR 241.3 M INCLINATION -50° DRILL TYPE BOYLES 37 COMPLETED 24.2.81

DEPTH 88.4 M HOLE No. TLC 1
27M BARRELS; 80 BARRELL/BIT
CASING LEFT (HOLE LOST) DPO No(s) 26667

DEPTH		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...)									
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au			
0	3.0				TRICONED - NO CORE.															
3.0	4.0	0.5	NQ	ss/sh	3.0-13.2 Dark Grey Thinly bedded SILTSTONES + SHALES															
4.0	4.8	0.1	to			3. In So 53°														
4.8	6.0	0.25	4.2 M		Thinly bedded (10-20 mm) contorted black shaley beds with pale grey siltstones and some creamy coloured calc-silicate laminae.	Extensively weathered - soft, crumbly and broken core with some pitting and minor limonitic staining, suggesting sulphides originally present 1-5%.														
6.0	7.0	0.45																		
7.0	8.0	0.80																		
8.0	9.0	0.35																		
9.0	9.9	0.35			8.0-10.5 yellowish/pinkish soft rotten weathered? calc silicate interval															
9.9	11.1	0.50																		
11.1	12.0	0.50			finely bedded and highly contorted.	12.2-34.5 Fault zone?														
12.0	13.0	0.45				Soft white cream and grey puggy clays; some magnetite intervals; overall, the ground is soft, crumbly and rotten														
13.0	14.0	0.9																		
14.0	15.0	0.4		↓																
15.0	16.5	0.6																		
16.5	19.5	0.45		Css?	13.2-16.5 CALC SILICATES	13.2-15.0 Traces of Mn oxides along fine stringers.	877356	13.2	15.0	1.3	140	70	680	41	120	-	0.025			
19.5	22.5	0.4			White and pink soft greasy feeling calc silicates, shattered and broken.		357	15.0	16.5	0.6	220	310	1150	x	390	65				
					15-16.5 Pronounced pinkish and orange tones, with some weathered micaceous patches and small blebs of Mn oxides to 2mm															
				↓																
				M/Css?	16.5-22.5 Mixed MAGNETITE and CALC SILICATES.	Magnetite 30-40% of recovered core - porous and cellular; locally massive lengths to 20 cm.	358	16.5	19.4	0.4	170	80	3050	x	150	30				
					Porous crumbly magnetite, highly weathered and friable pink and soft shattered calc-silicate matrix. Some highly Mn rich portions - black oxides assoc. with greenish calc silicates.		359	19.4	22.5	0.4	125	305	1150	x	190	30				

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DRILL CORE LOG

TENEMENT NAME Tenth Legion No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. TLC1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26667

DEPTH		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)												
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	As						
22.5	25.5	0.4	NQ	Cst/sh	?22.5 - ?25.5 CALC SILICATES with Grey SILTSTONE / SHALE. Finely bedded pink and white totally kaolinised calc silicates	22.5 - 25.5 Highly weathered - totally leached.	877360	22.5	25.5	0.4	14.0	4.0	380	x	380	x	.017						
					to 4.2m																		
					↓	with thin laminae of greasy feeling rotten grey shale.																	
25.5	28.0				LOST CORE	25.5 - 28.0 LOST CORE ZONE																	
28.0	28.5	0.5		M	28.0 - 28.5? Soft crumbly massive granular MAGNETITE.	Weakly banded ± 45°, traces of white ?magnetite remnants.	361	28.0	28.5	0.5	35	30	470	x	9900	30							
					↓																		
28.5	31.5	0.6		CSS/M	?28.5 - ?31.1 CALC-SILICATES with Dissem. MAGNETITE.		362	28.5	31.1	0.3	60	30	750	x	3.3%	x							
					↓	Dark greeny grey calc silicate rock with finely dissem. mag 20-30%. Originally a serpentinite?	Highly weathered, shattered and crumbly. Dissem mag 20-30%.	932309	28.6m.														
					↓																		
31.5	31.8	0.2		M	?31.1 - 31.8 Massive MAGNETITE Granular crystalline mag (2-3mm grains) with 1-2% white weathered ?carbonates	?Contact 42°	363	31.1	31.8	0.6	25	30	1050	x	3200	x							
					↓	and a little greeny-grey talc																	
31.8	34.3				LOST CORE	31.8 - 34.3? LOST CORE ZONE																	
34.3	34.5	0.2		CSS/M	?34.3 - 34.5 TALCOSE CALC-SILICATE ROCK WITH MAGNETITE. Pale greeny grey soft talcose ? carbonate rock with pinkish (Mn?) patches, some greenish serpentinite and granular dissem. mag. 20-30%.	Highly faulted, shattered + crumbly	364	34.3	34.5	0.2	40	75	1600	x	1150	30	x						
					↓																		
34.5	37.5	3.0		M/S	34.5 - 35.3 Faulted MAGNETITE/SERPENTINITE. Olivine green crumbly textured rock with abundant granular crystalline mag.	34.5 faulted contact, 80° Magnetite, variable 70-80% to 10%, average 40-50%.	365	34.5	35.3	0.8	290	55	4950	x	2500	x							
					↓																		
					CSS	?35.3 - ?35.8 TALCOSE CALC-SILICATE ROCK Magnetite 10-20%, granular		366	35.3	37.3	2.0	45	25	420	x	130	x						
					↓	White crumbly weakly talcy rock with small brownish spots in matrix.	and disseminated.																

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TENEMENT NAME..... No.....

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. TLC 1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 2667

DEPTH		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.....)									
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au			
37.5	40.0	3.0	NQ	Cst	35.8-41.3 CALC SILICATE ROCK	35.8 Contact ?50°	877367	37.3	39.3	2.0	5	30	80	x	55	x				
40.0	43.4	3.3	4.2m		Very hard bone coloured fine grained siliceous rock with	The entire fabric has been brecciated, with fine grained	368	39.3	41.3	2.0	10	55	95	x	70	x	0.008			
43.4	46.5	3.0	↓		pale greenish grey crystalline patches	pinkish? Mn silicates as irregular														
46.5	49.5	3.0	BQ		(? diopside). Some white? magnetite	bands around breccia clasts. Traces														
49.5	52.5	2.8			as irregular cavity fillings, lower	sp as clots in interstices; rare														
52.5	55.3	2.8			down in interval, some pale green	irregular veinlets of bluish grey														
					?epidote veining.	serpentine/chlorite														
					ss/sh ?41.3-46.4 SILTSTONE/SHALE BRECCIA	Highly deformed, altered and	369	41.3	42.5	1.2	50	65	85	x	25	x				
					Finely laminated grey and pink	metasomatised, with irregular patches	370	42.5	43.5	1.0	25	50	80	x	30	x				
					argillaceous rock, highly deformed	of grey qtz, green chlorite and	371	43.5	44.4	0.9	20	50	105	x	40	x				
					and contorted. Some deformed laminae	serpentine - calcite - py - sp veining	372	44.4	46.4	2.0	50	45	110	x	8	x	x			
					and stringers of remobilised pyrite -		432279	44.4												
					originally a pyritic siltstone/shale, the															
					pinkish patches being due to later alteration.															
					Contact irregular.															
					Css/M 46.4-48.6 CALC SILICATE ROCK WITH	Magnetite, varying from 10-20% in	373	46.4	47.1	0.7	190	50	2.55%	x	420	x				
					MAGNETITE AND SERPENTINITE	calc-silicate rock to almost massive	374	47.1	48.2	1.1	310	50	1.75%	x	150	x				
					Alternating bands of magnetite/serpentine	for 5-10 cm. Pyrrhotite dissem up to	375	48.2	48.6	0.4	155	55	1.8%	x	440	x				
					alternating with a grey siliceous rock with	30% locally, up to 10%. Py, sp, finely														
					abundant f.gr. dissem po and mag with	dissem throughout, up to 2-5%														
					serpentine veining.															
					Contact 55°															
					48.6-54.3 DOLOMITE/TREMOLITE WITH	Mag, finely dissem. in small grains to	376	48.6	50.6	2.0	15	20	2700	x	6	x	x			
					MAGNETITE.	3mm, 10-20%. Trace py, sp in blebs	377	50.6	52.3	0.7	30	25	9100	x	20	x				
					Pale grey finely crystalline massive	to 2mm.	378	52.3	52.7	0.4	100	30	3.5%	x	35	x				
					carbonate/tremolite with finely dissem mag		379	52.7	54.3	1.6	85	65	6000	x	20	x				
					and minor serpentine alteration.															
					52.3-52.7 Mag 50-60% in pale green sep.	52.3-52.7 Sp intergrown with mag 3-5%														
					45° contact															
					53.0-53.55 Mag 20-30%, sep 65%, idocase(?) 10%															

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RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26667

DEPTH		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.....)								
From (M)	To (M)										Cu	Zn	Ag	Sr	W	Au			
55.3	57.4	1.1	8Q	M/S	Contact 40° 54.3-58.5 MAGNETITE WITH SERPENTINITE.		877380	54.3	55.3	1.0	125	60	565%	x	120	x	x		
57.4	58.5	1.1			Granular black magnetite 40-60% with patches of olive green serpentine. Some ? pale brown garnets 54.3-54.6.		381	57.4	58.5	1.1	145	100	72%	x	300	x			
58.5	63.9	1.1			58.3-58.5 Grey crystalline calc silicates - see 48.6-54.3 58.5-63.9 - Cavity - LOST CORE														
63.9	64.2	0.3		Cst	63.9-67.0 CALC SILICATE ROCK	Traces py, sp in irregular crystalline aggregates; some	382	63.9	65.9	2.0	75	60	2950	x	100	x			
64.2	67.0	2.9			Pale white and grey f.g. matrix - diopside/tremolite, patches of pale green epidote, some pinkish Mn silicates and later whitish alteration around the margins of breccia clasts.	minor green and black serpentine with mag. along irregular fractures 1-2%.	383	65.9	67.0	1.1	95	20	5200	x	160	x			
67.0	70.3	3.3																	
70.3	73.4	3.0																	
73.4	76.5	3.0																	
76.5	79.2	2.9																	
79.2	82.4	3.1			Contact 45° 67.0-67.6 MAGNETITE WITH SERPENTINITE	Mag 40-60%; py 1-2%.	384	67.0	67.6	0.6	95	20	1300	x	740	x	x		
					Contact 45° 67.6-69.1 CALC SILICATE ROCK.	Mag 1-2%, finely dissem in grey crystalline rock, and with patches of garnets and patches of remnant serpentine. Po intergrown with py in blebs and finely dissem 2-3%.	385	67.6	69.1	1.5	90	15	4250	x	150	20			
					As above 63.9-67.0, minor pinkish grey tremolite/diopside.														
					Contact 30°, irregular. 69.1-71.5 MAGNETITE WITH SERPENTINITE	Magnetite 30-40%; py 1-2% See 54.3-58.5 for description.	386	69.1	70.3	1.2	40	20	3050	x	90	x			
					69.7-70.3 Altered bone white/green mottled calc silicate rock with pervasive mag/soy alteration.	in upper 0.6 m. From 69.7-71.5, patches dark brown sp intergrown with mag locally 15-20%, overall 2-3%.	387	70.3	71.5	1.2	95	30	38%	x	110	x			
					71.5-80.7 CALC SILICATE (SEARN) ROCK	Traces of blue? interstitial fluidite?; rare blebs magnetite py and po.	388	71.5	73.5	2.0	20	85	1000	x	40	x	x		
					Very altered/metasomatised rock - mottled bone/pale greens - mostly diopside with patches Mn silicates, idocrase and brownish garnets. Randomly and chaotically banded - original breccia fabric.		389	73.5	75.5	2.0	15	25	65	x	50	x			
							390	75.5	77.5	2.0	25	25	110	x	100	x			
							391	77.5	79.5	2.0	5	15	75	x	100	x			
							392	79.5	80.7	1.2	15	15	130	x	150	x	x		
							932280	75 m	THIN SECTION SAMPLE.										

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