




RED RIVER RESOURCES Ltd.			
DRILL LOG SHEET			
Project: <u>BLYTHE</u>	Hole No: <u>BGDC001</u>	Collar Co-Ordinates: <u>402256mE</u> <u>542459.8mN</u> (GDA 94)	
Location Code: <u>BG (BUTON GRASS)</u>	Azimuth: <u>130</u>	Inclination: <u>-60°</u>	Collar RL: <u>556</u>

Location: <u>BUTTON GRASS</u>					Date Started	5/04/09	Hole size		From	To	Total	Core Storage	10 PEARL ST
					Date Finished	16/04/09	Non Core					CNO of Trays	BURNIE, TASMANIA
					Total Depth	233m						Sample Storage	10 PEARL ST
					Logged By	AMY	Core	HQ	0	53.5	53.5	Assay Lab	BURNIE LAB
					Contractor	F DRILL		NQ	53.5	END	179.7	Assay Reports	
Map/Photo Reference: .....					Rig						Min/ & Pet Lab		
					Hole Survey Data								
Depth	Instrument		Acid Etch		Drill Crew	DENNY	Casing					Min/ & Pet Reports	
	INKL.	AZ.	INKL.	AZ.		DANIEL							
Collar													
							Casing Left						

©	
523	

Calcite

ROOTLETS

<div><div>S</div><div>S</div><div></div></div>	<b>TERTIARY SEDIMENT</b>	<div><div>M</div><div>M</div><div>(M)</div></div>	<b>Mt/ Cc/ Po</b> Metasomatic alteration
<div><div>H</div><div>H</div><div>(H)</div></div>	<b>Yellow/ green Dolomitic limestone - Host rock</b>	<div><div></div><div></div></div>	<b>Pyrrhotite - rich rock</b>
<div><div></div><div>- A</div><div></div></div>	<b>Shale</b> <b>Andalusite - bearing hornfels</b>	<div><div></div><div></div></div>	<b>Magnetite - rich rock</b>
<div><div>G/W</div><div></div><div></div></div>	<b>Grey/ white dolomitic limestone + magnetites</b>	<div><div>(A)</div><div></div></div>	<b>Amphibole alteration</b>
<div><div>gt</div><div></div><div></div></div>	<b>Garnetiferous dolomitic limestone + minor shales</b>	<div><div>(D)</div><div></div></div>	<b>Dolomitic</b>

B Bedding	O Oxidation
J Jointing	Po Pyrrhotite
C Cleavage	Mt Magnetite
F Foliation	Py Pyrite
Sh Shearing	Cc Calcite
q Quartz Veinz	

Drilling Summary: Total depth 233m. 33m past proposed depth of 200m. Strong hydrothermal alteration throughout indicated by abundant serpentine, fracturing & brecciation, alteration haloes and pseudomorphic replacement. Frequently changeable lithologies composed primarily of skarn & impure marble & variations thereof. Magnetite skarn from approx 13m, alternating with impure marble. Trace scheelite at approx 140m.

0-15m

Red River Resources Ltd.

Drill hole No.: BGD001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
									Flow Sp.	B	V	F	
0	0	2.5	2.5	0.6 (24%)	↑	§§§§§			↑				RESIDUAL SOIL Dark brown, highly oxidised clay & residual soil grades into sandy, pale brown/beige clay. Desiccation cracks, core wet when extracted. No obvious structures/bedding. Poor recovery.
					8188				5.24				
2.5	2.5	7	4.5	1.24 (28%)	*				*				SANDY CLAY Sandy clay grading into weathered sandstone at depth. Quartz rich, rounded grains. Friable. Fe oxide staining in discrete bands of no preferred orientation. Poor recovery.
					8189				3.66				
					*				*				
					8190				3.02				
7	7	8.5	1.5	1 (67%)	↓				3.21				SANDY CLAY Dark beige to brown, well weathered. Friable. Qtz grains ≤ 3mm but rare. Poorly cemented with fine clay. Trace bitrite? Inclusions of noticeably sandier material near base.
					8191				4.21				
					8192				*				
6.5	8.5	10.9	2.4	0.88 (37%)	*				7.31				SANDY CLAY Red/brown, strongly weathered. Malleable, plastic texture. Fresh surfaces (core interior) white/gray/brown. (complex banding of no preferred orientation (bitritization?)) Increasingly sandy, qtz rich towards base. 100% clay near top. Poor recovery.
					8193				6.21				
					8194				4.92				
0.9	10.9	13	2.1	1 (48%)	*				5.24				MUDDY SANDSTONE Friable, strongly weathered. Poorly consolidated clay & sand. Beige/brown with pervasive orange/red Fe oxide staining. Weathered & fractured qtz vein ~40cm thick. Flecks of bitrite within clay?
					8195				↓				
					8196				↓				
13	13	14.5	1.5	0 (0%)									NO RECOVERY
	NO	RECOVERY											
15	14.5	16	1.5	1 (67%)	8197				1.66				SANDY CLAY Mottled brown/beige/red clay.

Red River Resources Ltd.

# DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates	Core Angles	Description
15					8198	[Log]		B V F	Plastic texture. Fine sand (<187µm). Friable where dry. No obvious structures.
16	16	16.6	0.6	6.55 (95%)	8199	[Log]			SANDY CLAY - brown, unconsolidated mud (50%) & quartz sand (<2mm)
16.6	16.6	17.5	0.9	6.9 (100%)	8200	[Log]			MUDDY SANDSTONE Mottled brown, beige, red. Friable. No structures. Equigranular qtz, some larger angular grains fractured vein material?
	17.5	23.5	6	4.6 (77%)	8201	[Log]			MUDDY SANDSTONE with goethite & limonite. Mottled brown/black. Friable. Some sections more well consolidated than others. (lay up to 50%) gives core a plastic texture where wet. No structures or bedding. Dark brown earthy inclusions. Uneven fracture - platy? Blobs of goethite & limonite with no fixed form.
					* 8202	[Log]			
					* 8203	[Log]			
					* 8204	[Log]			
					* 8205	[Log]			
					* 8206	[Log]			
3.5	23.5	24.9	1.4	1.1 (80%)	8207 (top)	[Log]			MUDDY SANDSTONE Dark brown, black, green, mottled. No obvious structures. Disseminated magnetite. Blobs of diopside rich material & goethite/limonite blobs as above. Partially altered by contact metamorphism.
					8208	[Log]			
24.9	24.9	26.5	1.6	1.3 (80%)	8209	[Log]			ALTERED SEDIMENTS Pale brownish yellow/dark brown/green/black. Mottled in core interior. Diopside rich (in association with magnetite) similarity of composition fine sand/clay Abundant goethite/limonite.
					* 8210	[Log]			
26.5	26.5	27.2	0.7	0.35 (50%)	8211	[Log]			ALTERED SEDIMENTS. As above but harder/better consolidated. Band of hard skarn material Talc.
27.2	27.2	29.9	2.7	1.35 (50%)	8212	[Log]			MAGNETITE RICH ALTERED SEDIMENTS. Transition to skarn. Dark brown/brownish yellow. Disseminated magnetite. Clay, quartz, diopside & goethite also abundant. No obvious structures, mottled coloration. Some areas friable, some much harder.
					* 8213	[Log]			

30-45m

Red River Resources Ltd.

Drill hole No: BG0001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt		Mg	B	V	F	
30.6	29.9	30.6	0.7	0.44 (67%)	8214	---			4.17				ALTERED CLAY. Yellow/brown/deep blue green. clay, diopside, mt, limonite, goethite in discrete blebs. No structures.
	30.6	35.5	4.9	3.1 (63%)	8215	---			5.37				ALTERED Fe RICH SEDIMENTS
					8216	---			5.21				Mottled brown/green/yellow/black/beige. Friable texture.
					8217	---			2.25				Plastic where clay is abundant. Less of magnetite, goethite, diopside, limonite, serpentine. Magnetite is disseminated, crystalline with a metallic luster. No obvious structure.
					8218	UAVANA			1.83				Quartzite band at 32.5m. Quartz crystals
					8219	QUARTZITE BAND			4.09				lunhedral, acicular in places. Weathered/prachured therefore orientation unknown. Thickness ~ 5cm.
					8220	---			4.65				
					8221	---			2.21				
					8222	---			1.59				
					8223	---			2.6				
35.5					8224	---			3.1				
	35.5	36.2	0.7	0.65 (100%)	8225	---			3.51				ALTERED CLAY, FINE SANDS. Orange brown to brown. Partly friable. As above but lighter colour (less Fe?)
					8226	---			2.11				ALTERED CLAY, FINE SANDSTONE.
	36.2	38.7	2.5	2.5 (100%)	8227	---			5.35				Dark brown/orange brown mottled. Friable but some harder sections (more magnetite rich). Disseminated magnetite.
					8228	---			6.01				Pseudomorphs of goethite after magnetite? Diopside.
38.7					8229	---			3.8				lacking unlike previous sections. Red clay like mineral staining (?) on some surfaces. Grades into harder, sandy, pale material.
	38.7	42.7	4	2 (50%)	8230	---			3.5				ALTERED SEDIMENTS.
					8231	---			3.36				Brown to pale brown/yellow. Zones of clay interspersed with zones of sandy qtz-rich material.
					8232	---			2.99				Diopside present in clay. Red staining/clay mineral abundant (described above). Disseminated magnetite patchy. No foliation/structure. Friable where sandy, easily broken/brittle where clay rich.
					8233	---			4.96				
42.7					8234	---			3				
					8235	---			4.21				
					8236	---			4.42				
					8237	---			5.97				UNCONSOLIDATED SAND
	42.7	43.5	0.8	0.58 (73%)	8238	---			3.38				Brown. Equigranular rounded quartz. No structures.
43.5	43.5	45.8	2.3	1.41 (62%)	8239	---	↑		5%				SKARN
						---	↓						Hard, friable where weathered. Nodules of quartz & Fe oxides. Silicate matrix/groundmass. Disseminated magnetite patchy. Silicate veins sub-parallel to core. Fine grained.

45-60m

Red River Resources Ltd.

Drill hole No.: BGSD001

## DIAMOND DRILL LOG

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From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
						Mt		MgS	B	V	F	
45.8				8239				1.69				
46.4	45.8	0.6	0.44 (73%)	8240				3.52				SKARN/ALTERED SEDIMENTS. Light brown, mottled red, friable. Qtz, silica rich. Serpentine. Possible chlorite?
	46.4	1.2	0.88 (73%)	8241	+			4.83				BRECCIATED SKARN & GRANITE. Mottled red/cream/white/beige. Hard, solid core. Brecciated. Qtz rich, rare disseminated magnetite. Abundant red & white clay. Large brecciated qtz nodules.
47.6				8242	+			3.33				
	47.6	0.9	0.69 (73%)	8243	+			3.72				BRECCIATED SKARN & GRANITE. As above but lighter in colour & more fractured.
48.5	48.5	0.8	0.58 (73%)	8244	+			1.88				GRANITE. Qtz, weathered fsp, kashite. Goethite & Fe oxides replacing magnetite. Friable where weathered. Brecciated.
49.3					+							
	49.5	1	0.74 (73%)	8245	+			18.6				ALTERED GRANITE. Pink/white/beige. Feldspar, kashite, qtz. Semi weathered to fresh. Minor fractures, no preferred orientation.
50.3	50.3	0.3	6.3 (100%)	8246	+			4.74				BRECCIATED GRANITE.
50.6												
	50.6	1.5	0.87 (65%)	8247				6.26				SKARN
				8248				20				Friable, heavily oxidised. Mottled green/beige/black/brown. Abundant clay. Chlorite? White porous soft mineral → talc? Kashite? Serpentine, disseminated magnetite.
52.1	52.1	1.4	0.9 (64%)	8249				4.81				ALTERED SEDIMENTS, CLAY. Brown/beige/red. Broken surfaces have a waxy appearance. Main constituent is clay. Diopside present but not abundant. Brown Fe oxides line fractures. Magnetite not apparent until base of section.
53.5	53.5	1.1	0.3 (27%)	8250				3.56				MAGNETITE SKARN
4.6	54.6	3.6	1.51 (42%)	8251 (54.6 m to 56.6m)				4.57				Very hard (mostly silica). Too fine grained to determine mineralogy. However clusters of partially altered disseminated magnetite apparent.
												MAGNETITE SKARN
												As before but more fractured and friable. Due to a greater abundance of clay minerals? No obvious structures.
				8252				6.32				
6.2												
	58.2	2.1	0.87 (42%)	8253				7.31				MAGNETITE SKARN
				8254				4.21				Beige/pale brown with mottled black patches where magnetite appears. Main fracturing sub-parallel to core axis. V. fine grained. Silicates, Fe oxides, sulphides (smells on addition of HCl!) Up to 70% mt near base of section.

60-75m

Red River Resources Ltd.

Drill hole No: RG0001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt			B	V	F	
60.3	60.3	60.6	0.3	0.3 (100%)	8255		30		5.5				MAGNETITE SKARN. As before but rich in clay. Bedding parallel to core.
60.6	60.6	61.3	0.7	0.63 (95%)	8256		80%		132				MAGNETITE SKARN. Rich in partially disseminated mt. Diopside rich. Friable in places.
62.1	61.3	62.1	0.8	0.74 (95%)	8257		50%		289		✓		MAGNETITE SKARN. As before but less mt. Steady gray hematite? Diopside inclusions. Clay rich in places.
	62.1	65.3	3.2	2.86 (90%)	8258		↑		49.3		✓		MAGNETITE RICH SKARN.
					8259		↓		117		✓		Mottled green/yellow/brown/orange/black. White where weathered. Up to 80% mt in places. Some fracturing with no preferred orientation. Pinkish/white silicate mineral, dull to vitreous luster, moderately hard. Perhaps an aggregation of smaller crystals? Friable in places.
					8260		↓		69.6		✓		Platy minerals give waxy appearance and luster to broken surfaces - serpentine & clay.
					8261		↓		199		✓		
					8262		↓		336		✓		
65.3	65.3	66.4	1.1	1.05 (100%)	8263 (4.65%)		↓		143				DIOPSIDE MAGNETITE SKARN. As above but more orange Fe oxides. Serpentine rich giving waxy fractured surfaces. Diopside rich. Friable in places, massive in others.
66.4					8264		↓		36.1				
66.4	66.4	67.1	0.7	0.7 (100%)	8265		60%		42.4				DIOPSIDE MAGNETITE SKARN. Waxy broken surfaces. Friable. No obvious structures. Diopside, mt, clay, plastic where wet.
67.1	67.1	69.1	2	2 (100%)	8266	SHEAR ZONE	↑		2.25		✓		BRECCIATED SKARN
					8267		↓		3.11		✓		Light yellow/brown/beige. Hard, not friable. Gas-milled breccia. Disseminated mt rare. Fine grained. Vug-texture in places, voids sometimes contain magnetite.
69.1					8268		↓		3.2		✓		
	69.1	70.7	1.6	0.83 (53%)	8269	SHEAR ZONE	↑		11.2		✓		BRECCIATED MAGNETITE SKARN
					8270		↓		51.3		✓		Orange brown, friable in places. Fe oxides abundant. Gas milled breccia. Fractures of no preferred orientation. Disseminated magnetite in clusters.
70.7	70.7	71.9	1.2	0.66 (53%)	8271		70%		146		✓		MAGNETITE SKARN
71.9	71.9	74.5	2.6	1.53 (59%)	8272		↓		238		✓		Dark brown/black. Partially disseminated magnetite abundant. Fracturing roughly parallel to core axis.
					8273		↓		72.9				MAGNETITE RICH SKARN
					8274		↓		52.5				Dark brown/black/orange brown mottled. Abundant mt. Some sections crumbled/friable. Voids sometimes filled with hard, fibrous/acicular white mineral. Epidote present but rare.
74.5	74.5	75.4	0.9	0.63 (67%)	8274		↓		52.5				MAGNETITE SKARN Mottled grey/beige/black/orange.

Abundant platy minerals (clay?) Orange Fe oxides. Waxy appearance along fractured surfaces.

75-90m

Red River Resources Ltd.

Drill hole No: BGD001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt	Cu	Flow SUS	B	V	F	
75					8274		68%						Diopside, epidote rich. No structures.
75.4	75.4	75.9	0.54	0.36 (67%)	8275		40%		33.1				MAGNETITE SKARN. As above but clay rich. Friable & crumbled.
75.9	75.9	77.5	1.6	0.93 (58%)	↑		↑		↑				MAGNETITE SKARN
					8276		60%		163				Mottled beige/black/white. white powdery mineral when core broken - talc? Fractured/sheared. Friable in places.
77.5	77.5	78.6	1.1	0.92 (83%)	8501		↓		↓				MAGNETITE DIOPSIDE SKARN Mottled black/green. Mt and diopside rich. ~26cm (recovered core) of diopside rich/mnt. poss. Serpentine rich. Trace garnet? Friable.
78.6	78.6	80.5	1.9	1.56 (82%)	8502		↑		116				MAGNETITE SKARN
					8503		↑		148				Composed of a number of small zones (too small to be subdivided). Friable to hard. Mottled black/brown/green. No structures. Mt, epidote, clay minerals abundant. Some minerals clustered into nodules (eg magnetite).
80.5	80.5	83.7	3.2	1.47 (46%)	8504		↑		147				MAGNETITE SKARN
					8505		↑		2.11				Low recovery. Orange brown colour. Friable & clay rich (turned to sludge where wet). No obvious structures. White powdery mineral at approx 82.1m - talc? 25cm of serpentine/diopside rich zone. Pseudomorphs after pyroxene? Waxy fractured surfaces. Magnetite poor compared with other sections.
83.7	83.7	84.4	0.7	0.7 (100%)	8506		↑		88.1				MAGNETITE SKARN. Broken core, friable but hard where aggregations of disseminated mt occur. Brown/dark brown. Serpentine, mt, brown, pink silicate
84.4	84.4	86.5	2.1	2.1 (100%)	8507		↑		243				MAGNETITE SKARN - WITH COPPER?
					8508		↑		175				Dark brown/black/green/mottled. Mt & serpentine rich. No obvious structures or bedding. Mt disseminated. Some diopside?
86.5	86.5	88.5	1.98	1.29 (65%)	8509		↑		99.5				Very small flecks of gold/orange metallic mineral - native copper? Easily broken, clay rich. Waxy on mt rich fractured surfaces.
					8510		↑		92.7				MAGNETITE SKARN
					8511		↑		163				Mottled brown/green/black/orange. No solid core, all crumbled, friable, weak. Clay rich. Mt, goethite, serpentine, Fe oxides (orange colour), diopside. No structure, or if so destroyed by breaking apart. Minerals concentrated into discrete patches.
88.5	88.5	89.2	0.7	0.66 (94%)	8512		↑		88				MAGNETITE SKARN Mottled, pale green/black/orange/brown. Mt, serpentine, diopside. Silty infilling vugs.
89.2	89.2	90.3	1.09	0.93 (85%)	8513		↑		51.5				BECCIA - AFTER SKARN Green, beige, brown, dark brown, black. Angular clasts (lithics, mt, serpentine pseudomorphs) in clay matrix. Some inclusions rimmed by Fe oxides. Poorly sorted, matrix supported. No obvious bedding/structures.

90-105m

Red River Resources Ltd.

Drill hole No: B.G.0001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt		MgO SUS	B	V	F	
90.3	90.3	91.7	1.4	1.4 (100%)	8510		40%		103				MAGNETITE SKARN Brown/dark brown/black. Some areas friable, some hard. Disseminated mt. Serpentine, clay minerals, Fe oxides (goethite?) Vugs filled with white powdery mineral - talc?
91.7	91.7	94.6	2.9	2.72 (94%)	8511		15%		22.6				BRECCIA - AFTER SKARN Mottled brown/black/green. Angular clasts, matrix supported. Some clasts magnetite, some lithics, no preferred orientation. Serpentinisation pervasive throughout. Some pseudomorphs have ruins of Fe oxide around them. Gas milled breccia → strong hydrothermal alteration
94.6	94.6	95.5	0.9	0.88 (94%)	8512		15%		4.2				Some clasts magnetite, some lithics, no preferred orientation. Serpentinisation pervasive throughout. Some pseudomorphs have ruins of Fe oxide around them. Gas milled breccia → strong hydrothermal alteration
95.5	95.5	96.9	1.37	0.46 (33%)	8513		5%		9.37				SERPENTINISED SKARN Mottled pale green/brown. Fine grained conchoidal fracture with waxy luster. Some magnetite inclusions < 0.5 cm. Some chlorite replacement?
16.9	96.9	100.6	3.68	2.07 (56%)	8514		15%		10.6				BRECCIA - AFTER SKARN Mottled brown/dark brown. Matrix support (fine grained, clay like). Most clasts angular lithics or magnetite. Poorly sorted, no obvious structures. NB pale green serpentine lacking.
					8515		0%		6.64				SKARN - HYDROTHERMALLY ALTERED, CLAY REPLACED Dark brown/pinkish red "swirly" marble-like appearance. Clay rich, easily broken. Serpentine rich band ~60° to core axis. Mt lacking. Soft, mainly clay replacement after skarn. Pink/red aggregations appear crystalline but very soft when scratched. Goethite? Earthy texture on fractured surfaces.
0.6	100.6	104.0	3.4	2.51 (74%)	8516		0%		5.61				SKARN - HYDROTHERMALLY ALTERED, CLAY REPLACED Pale green/white/pink/dark pink. Marble like appearance as with previous section. Easily broken. Sandy inclusions equigranular ~1mm. Transitional boundary between pink & white clays. Fractured surfaces conchoidal, waxy. Hard, qtz rich inclusions. Rare diopside & goethite? "Swirly" veins of no preferred orientation. BASE OF OXIDATION
4	104	106.1	2.1	0.77 (70%)	8517		0%		7.45				SKARN - HYDROTHERMALLY ALTERED, CLAY REPLACED As before but more fractured/brittle. Some goethite rich zones. Some harder, quartz rich sandy zones.
5					8518				6.59				
					8519				5.13				
									2.99				
									4.27				
									3.24				
									2.55				
									4.95				
									1.86				



Drill hole No: 360001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt		Mag	B	V	F	
105					8519				4.88			✓	Fractured surfaces waxy. Powdery white mineral - talc? Majority composition is clay. "stirly" textures mostly destroyed by fracturing.
106.1	106.1	107.3	1.22	1.22 (100%)	8520				5.64				SKARN - HYDROTHERMALLY ALTERED, CLAY REPLACED. Pale pink/white/green. "swirly" appearance. Bands pseudo-perpendicular to core axis. Composition mainly replacement clay. Original minerals concentrated as nodules.
107.3	107.3	108.7	1.36	1.36 (100%)	8521				2.95				SKARN - HYDROTHERMALLY ALTERED, CLAY REPLACED. As above but greener in colour - more chlorite? Cu associated mineral? Some dark rusty red inclusions. Unknown mineral.
08.7	108.7	110.2	1.5	1.5 (100%)	8522				1.56				IMPURE MARBLE. Carbonate rich, pale green/white. Friable areas serpentine rich. Harder areas saccharoidal texture, coarse grained, granoblastic. No obvious structures/preferred orientations.
10.2	110.2	120.4	10.2	10.2 (100%)	8523				2.41				MARBLE. White/pale green. Crystalline with saccharoidal texture. Interlocking grains sometimes very coarse (up to 1cm). Hard but scratched easily - calcite. Pale green colouration from epidote? chlorite? Serpentine?
					8524				5.4				Some clay rich lenses. Some qtz rich unpolished in original sediment. Small discrete rusty orange inclusions - Fe oxides.
					8525				2.31				Occasional rare veins sub-parallel to core axis.
					8526				3.52				Mineralisation at ~117.0m:
					8527				4.14				- within fracture 45° to core axis
					8528				2.48				- silver grey/metallic. Good cleavage
					8529				6.23				- aggregates of hard magnetic mineral - pyrrhotite? Sulphur smell with HCl.
					8530				4.96				- Black euhedral prismatic crystals. Triangular tips - tourmaline?
					8531				7.52				
					8532				5.95				
									4.39				
									5.51				
									5.75				
									4.6				
									3.84				
									3				
									5.24				
									3.07				

120-135m

Red River Resources Ltd.

Drill hole No.: BGO001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt		Fig 2	B	V	F	
120					8532				1.57				
120.4	120.4	125.5	5.1	5.1 (100%)	8533				2.48				MARBLE
					8534				2.12				Carbonate, crystalline with saccharoidal texture. Grey/white/brown/pinkish brown mottled. Garnet, biotite present as relicts from original impurities.
					8535		5%		2.35				Partially dolomitised? Reaction with HCl subdued.
					8536				2.83				Unidentified silicates - fractured pink/brown inclusions ~1cm in size.
					8537				4.55				Randomly orientated late stage calcite veins, cross cutting mineralogy.
					8538				3.17				Trace magnetite.
					8539				3.61				Silver grey metallic mineral, grey streak. Soft & platy ~1mm. Galena? Molybdenite? Fresh magnetite?
125.5	125.5	127.2	1.7	1.7 (100%)	8540				7.75				BRECCIATED IMPURE MARBLE - GAS FILLED BRECCIA
					8541				8.42				Subrounded randomly orientated clasts of pure carbonate amongst impure carbonate cement. Abundant serpentine, calcite, some garnet, other crystalline silicates, biotite. Trace late stage randomly orientated calcite veins.
27.2	127.2	133.5	6.3	6.3 (100%)	8542				5.35				IMPURE MARBLE
					8543				4.09				Serpentine rich at base grading into purer marble.
					8544				5.16				Interlocking grains, crystalline granoblastic texture.
					8545				5.11				Mottled green/grey/white. Impurities concentrated into discrete blebs amongst purer carbonate.
					8546				7.74				Mineralogy in order of abundance:
					8547				5.57				calcite
									3.7				serpentine
									4.15				biotite
									6.39				silicates (qtz, fractured garnet)
									6.23				Fe oxides (orange staining in places)
									6.68				Trace magnetite
									3.17				have soft grey mineral as above.
									5.06				Veins randomly orientated & of variable composition
									4.68				Qtz veins black transparent & contain thread-like calcite veins within them.
33.5	133.5	138.6	5.1	5.1 (100%)	8548				5				IMPURE MARBLE
					8549				4.62				As before but with larger pockets of impurities. Some pure serpentine blebs showing waxy lustre on fractured
35					8550				4.03				
									2.65				
									7.58				

Drill hole No.: BGD001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt	Sub	Reg Sub	B	V	F	
135					8547		↑		2.96			✓	Surfaces. Some narrow gas-milled breccia zones. Randomly orientated veins & fractures. Vugs common and often infilled with euhedral calcite crystals.
					8548		↑		6.12			✓	
					*		↑		4.22			✓	
					8549		↑		7.34			✓	
					*		↑		5.93			✓	
38.6					*		↑		8.66			✓	IMPURE MARBLE WITH SCHEELITE As before but scheelite identified with UV lamping. Patchy however and rare. Tends to be concentrated within the most impure sections of marble.
	138.6	140.5	1.9	1.4 (73%)	8550		↑		6.37			✓	
					*		↑		6.48			✓	BRECCIA - GAS MILLED Friable green, crumbled core. Small angular lithics & minerals (calcite, silicates, muds, Fe oxides). Matrix supported, serpentine rich matrix. Diopside? Any structures/veins destroyed. ~10cm impure marble containing scheelite.
40.5	140.5	142.3	1.8	1.3 (63%)	8551		↑		6.37			✓	
					*		↑		7.45			✓	IMPURE MARBLE "SWIRLY" marbled texture. Gas milled breccia in places. Dominantly calcite & serpentine. Abundant veins of no preferred orientation. Soft orange-red mineral present. Fractures ~60° to core axis.
+2.3	142.3	143.5	1.2	1.2 (100%)	8552		↑		7.64			✓	
43.5	143.5	145.8	2.3	2.3 (100%)	8553		↑		9.07			✓	SKARN Brecciated at top of section (gas milled). Predominantly green coloured - serpentine rich. (tiny pseudomorphs after talc & minerals. Soft, easily broken. Swirly marble like texture. Mt inclusions at top of section. Graded out further down. Dominant fabric ~45° to core axis. Thread like calcite veins. Trace garnet. Fe oxides. Diopside.
					8554		↑		5.53			✓	
15.8					*		↑		6.02			✓	SKARN Mottled rusty orange/green/white. Goethite pseudomorphs after magnetite? Strong hydrothermal alteration. Serpentine, *
16.4	145.8	146.4	6.6	0.6 (100%)	8555		↑		8.46			✓	
	146.4	148.1	1.7	1.7 (100%)	8556		↑		9.79			✓	SKARN As above but with swirly marble texture. Predominantly perpendicular to core axis. Also more serpentine. Yellow/brown euhedral crystals lining cavities/fractures. What are they?!
					8557		↑		5.25			✓	
48.1	148.1	149.1	1	1 (100%)	8557		↑		7.67			✓	GARNET DIOPSIDE MAGNETITE SKARN Mottled dark grey/green. No structures. Very dense. Fractured, garnet porphyroblasts ~1cm. Vugs/fractures infilled with brown euhedral calcite.
49.1	149.1	150.3	1.2	1.2 (100%)	8558		↑		184			✓	
					*		↑		7.45			✓	SKARN Fractured green/grey core. Aggregations of euhedral dark brown to yellow crystals, sugary appearance. Diopside rich. Also contains quartz.
					*		↑		6.4			✓	
					*		↑		7.12			✓	

\*quartz, trace mt. Thread like calcite veins. Vugs. "Swirly" marble-like texture.

150-165m

Red River Resources Ltd.

Drill hole No: BG0001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt	Sch	Mag	B	V	F	
150					85								
150.3	150.3	152	1.7	1.7 (100%)	8559		↑		2.95	✓	✓		IMPURE MARBLE Green/white/grayish red mottled. Perisipine thread like calcite veins throughout. Fractured with no preferred orientation. Abundant calcite & serpentine. Dark rusty red mineral. Diopside, garnet, mt. Dominant veins 70° to core axis. Fractures/veins infilled with yellow/brown silicates
152					8560		↓		4.13	✓	✓		
152.3	152	152.3	0.3	0.3 (100%)	8560		<5%		4.34				SKARN Friable, crumbled core. Diopside, epidote, clay rich *
	152.3	157	4.7	4.7 (100%)	8561		↑		3.99	✓	✓		IMPURE MARBLE Predominantly calcite but very impure. Crystalline in places. Serpentine abundant. Also contains pyrite, diopside, epidote? and patchy disseminated fresh magnetite. Major calcite veins ~70° to core axis. Soft platy crystals perpendicular to long axis of vein. Impure extension perpendicular to vein during growth? Small sugary brown euhedral crystals as described previously on fracture surfaces. Also dark orange red mineral - particularly around veins.
					8562		↑		23.3	✓	✓		
					8563		↑		24.1	✓	✓		
					8564		↑		190	✓	✓		
					8565		↑		39.6	✓	✓		
					8566		↑		73.3	✓	✓		
					8567		↑		33.1	✓	✓		
					8568		↑		8.71	✓	✓		
57	157	161.4	4.4	4.4 (100%)	8569		↑		32.9	✓	✓		SKARN (CALCAREOUS) Dark green, heavily fractured. Broken up core with no structure preserved. Serpentine & diopside rich. Rare veins of sugary brown silicates. Patchy quartz. Calcite also patchy & present in thin, randomly orientated veins. Serpentine rich areas friable. Other areas hard. Breaks into sliver-like fragments. Clay rich zones 158.7m-159.3m, & 159.7-160.3m. Red, malleable, calcareous, marl. Also dark green/black marl. Silver metallic mineral. V. fine grained thus difficult to identify - magnetite?
					8570		↑			✓	✓		
					8571		↑			✓	✓		
					8572		↑			✓	✓		
161.4	161.4	162.2	0.8	0.72 (90%)	8570		<5%			✓	✓		SKARN Pale green. Breaks into chunks not slivers. Trace disseminated mt. Serpentine, diopside, calcite. Randomly orientated calcite veins.
162.2	162.2	163.1	0.9	0.9 (100%)	8570		20%			✓	✓		MAGNETITE SKARN Patchy disseminated mt. Hard. Calcite, silicates (qtz) diopside, serpentine. Cross cutting veins.
163.1	163.1	168.8	5.7	5.7 (100%)	8571		↑			✓	✓		SKARN (CALCAREOUS) Patchy disseminated mt. Abundant calcite both with rock & as bifurcating veins of no preferred orientation. Soft, red, fine grained marl. Qtz, serpentine, diopside. Brown sugary silicates infilling fractures. Orange brown Fe oxides. Trace
65					8572		↑			✓	✓		

\* calc? Goethite? trace magnetite. Structures destroyed by crumbled core.

165 - 180m

Red River Resources Ltd.

Drill hole No.: B60001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates		Core Angles			Description
							Mt	Sh	B	V	F	
65						8573	↑	<5%				<p>scheelite at ~65m. Aggregations of platy biotite. Variable colours due to variable mineralogy: gray/white/green/rusty dark red/orange/brown/dark green/black. "Swirly" patterns indicate strong hydrothermal alteration. Some calcite veins are thread like, some &gt;1cm wide with euhedral prismatic calcite crystals perpendicular to vein direction. Fractures take similar form to veins: randomly orientated &amp; bifurcating. Serpentine rich areas friable. Fragments sharp, silver like.</p>
						8574	↑	10%				
						8575	↑					
						8576	↑					
68.8	168.8	170.2	1.4	1.4 (100%)	8577		↑	TRACE				<p>IMPURE MARBLE Pale green/brown/beige. Crystalline saccharoidal texture. Biotite, serpentine, diopside, red clay, trace mt? No veins/fracturing.</p>
70.2	170.2	172.4	2.2	2.2 (100%)	8578		↑	<15%				
					8579		↑					<p>SKARN - CALCAREOUS Apple green to dark grey green. Mottled red/white/brown. Sugary brown silicates lining fractures, particularly either side of calcite veins. Serpentine, diopside rich. Red marl. Trace mt &amp; hematite (red streaks). Concentrated into blebs in places.</p>
72.4	172.4	173.4	1	1 (100%)	8580		↑	<5%				
73.4	173.4	176	2.63	2.63 (100%)	8581		↑					<p>SKARN Abundant red marl. "blooms" on addition of HCl. As above but crumbled core. Trace mt &amp; hematite. Nodular concretions of calcite. Any structures have been destroyed.</p>
					8582		↑	5%				
					8583		↑	15%				
176	176	180.8	4.8	4.8 (100%)	8584		↑	<5%				<p>SKARN Green/red/brown/white/orange/mottled. Variable mineralogy &amp; textures throughout section. (one mostly crumbled) although some sections massive, hard, crystalline. Zones of serpentine/clay rich material. Others rich in red marl (or just clay intergrown with calcite?). Fractures/veins infilled with sugary brown silicates &amp; calcite. Veins not as abundant as previous and greater</p>
					8585		↑					
					8586		↑					
180							↑					

180-195m

Red River Resources Ltd.

Drill hole No: BG0001

## DIAMOND DRILL LOG

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180  
80.9

From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
				8586		Mt			B	V	F	
						<5%						silicate / less calcite in composition. Qtz rich areas with more abundant biotite. Trace hematite & mt. Patchy, disseminated
180.8	192.1	11.3	11.3 (100%)	8587		*						MAGNETITE SKARN
				8588								Hard, solid, core, mostly intact with 100% recovery. Pale green/beige/white/black/red (rare). Mottled & patchy. Colour reflects variation in mineralogy. Randomly orientated fractures & vugs abundant. Carries often lined with brown, sugary silicates. Fine grained crystalline calc-silicate groundmass. Calcite abundant in discrete patches as well as veins. Randomly orientated, some bifurcating. Serpentine also abundant. Patchy disseminated magnetite. More mt rich zones black in colour, up to 70%, but still disseminated. These zones occur at approx 185 & 188m.
				8447		<15%						Dark red/orange clay - calcareous?
				8448								Trace diopside
				8449		36%						Orange/brown rust coloured inclusions, increasingly abundant near base of section. Sphalerite?
				8450		<15%						
				8451		*						
				8452		56%						
				8453		*						
				8454								
				8455		<15%						
				8456		*						
192.1	195.3	3.2	3.2 (100%)	8457		*						MAGNETITE SERPENTINE SKARN.
				8458		<36%						Dark green/orange/brown/black mottled. Darker in colour than previous section. Less calcite, more serpentine & mt. Mostly hard, solid core but friable/crumbled in some places. Patchy disseminated mt. often partially or wholly altered (to goethite?). Orange/brown alteration halos around some inclusions. Randomly orientated calcite veins. Also
				8459								

15

195-210m

Red River Resources Ltd.

Drill hole No.: 360001

# DIAMOND DRILL LOG

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195		From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates				Core Angles			Description
195.3								Mt				B	V	F	
		195.3	208.2	12.9	12.9 (100%)	8559									fractures often infilled with sugary brown silicates.
						8560									IMPURE MARBLE
						8561									Hard, crystalline rock, oolitic texture. Pale grey/white with irregular patches of pale to dark green serpentine.
						8562									Veins/fractures rare except in brecciated & serpentine rich zones.
						8563									Majority of composition is calcite (some crystals large, euhedral) and serpentine. Rare patchy disseminated magnetite. Some orange/brown altered Fe oxides & hydroxides → goethite? Fractures infilled with brown sugary silicates as before. Calcite stained pink/red in some places.
						8564									
						8565									
						8566									
						8567									brecciated zone at 202.5-202.6m
						8568									
						8569									
						8570									serpentine rich zones at 205-205.2 m and 206-206.2 m (approx). Heavily fractured, some parts friable.
						8571									
						8572									
		208.2	210.7	2.5	2.5 (100%)	8473									BRECCIATED MARBLE
						8474									Gas milled brecciated clasts of white/pink stained marble in a green calcitic serpentinitic matrix. Clast supported. Fractures sub parallel to core axis & infilled with sugary silicate crystals as before. Pink staining mainly

210-225m

Red River Resources Ltd.

Drill hole No.: BG0001

## DIAMOND DRILL LOG

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	From	To	Inter. (m)	Core Rec'd	Sample No	Graphic Log	% Estimates			Core Angles			Description
							Mt			B	V	F	
210					8474								no alteration haloes within marble clasts. Clasts angular to sub rounded ~1cm in size. Strong hydrothermal alteration.
210.7					↑								SKARN
	210.7	212	1.3	1.3 (100%)	8475								Dark green/grey/white. Soft, easy to break into slithers. Serpentine rich, surfaces have waxy luster. Some carbonate rich zones. Dark orange brown Fe oxides & hydroxides.
212					↓								IMPURE MARBLE
	212	219.1	7.1	7.1 (100%)	8476								Pale grey/white, crystalline & mostly hard except for serpentine rich zones. Mainly composed of calcite with pale to dark green "patches" of serpentine. These are of irregular shape & no preferred orientation but often display a swirling marbled effect.
					8477								Fracturing is irregular and occurs mainly on serpentine rich zones where rock is softer. Either crumbles or breaks into slither-like fragments.
					8478								Some soft, altered orange red inclusions.
					8479								Sulphurous smell from addition of HCl - presence of sulphides?
					8480								Patchy disseminated magnetite. Rare, except at ~217 to 217.8m.
					8481								
					8482								
219.1					↑								MAGNETITE SKARN
	219.1	221.2	2.1	2.1 (100%)	8483								Pale green/dark green/black/gray/yellow/orange. Differs from previous section by abundance of serpentine & mt. Also relative lack of calcite. Soft, crumbly in places. Zone of marble 220.2-220.4m. Patchy pyrite.
					8484								
21.2					↑								MAGNETITE SKARN
	221.2	227.5	6.3	6.3 (100%)	8485								Mostly dark grey/green/white (one mostly hard except for serpentine rich sections indicated). Broken edges sharp. Calcite & serpentine abundant as before. However, fine grained silicates comprise larger proportion of groundmass to give core its hard, crystalline nature.
					8486								Patchy, disseminated magnetite, content varies as shown on the left. Some fresh, some partially altered. Sugary brown silicates present as fracture infillings as before
					8487								
25					8488								



225-240m

Red River Resources Ltd.

Drill hole No: BG0001

# DIAMOND DRILL LOG

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