

**Cameco Australia Pty Ltd****EL22784 and 22785 Outcrop Sample location 2006**

Sample Number	Easting	Northing	Location - map	Lithology	Lithology comments
MD060001	355355.34	8625367	267	Sandstone; mottled coarse	Saratoga anomaly; ferrug (inc specular hematite), 'gossanous', retextured & altered med-coarse lithic sst, ~30 m topographically below adj Phr and ~10 m below Kl claystone; similar downslope Kl leaching origin to adj basalt anomaly MDA029.
MD060002	359201.505	8637378	220	Ferricrete; pisolitic	typical ferricrete after basal Nung Volcs sitting on plateau of long lived weathering surface
MD060003	358369.516	8638333	229	Ferricrete; pisolitic	typical ferricrete after basal Nung Volcs sitting on plateau of long lived weathering surface; some vugs with agate, qtz and hematite
MD060003_#	358369.516	8638333	229		typical ferricrete after basal Nung Volcs sitting on plateau of long lived weathering surface; some vugs with agate, qtz and hematiteCollected_date is an estimate based on Year code in sample number .
MD060004	356784.523	8638864	238	Mafic volcanic rock; weathered	float of platy weathered basal Nung Volcs
MD060005	356132.516	8638366	245	Mafic volcanic rock; weathered	float of platy weathered basal Nung Volcs; nearby NNE trending dyke c elevated cps
MD060006	357164.537	8639977	223	Mafic volcanic rock; weathered	float of platy weathered basal Nung Volcs on small mesa; looks like siltstone (check petrography later)
MD060007	355062.545	8640649	199	Sandstone; fine-med	typical middle Mam Sst facies c PXB, TXB, pseudokarstic; no deformation and no scint anomalies here
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MD060008	354284.515	8638364	214	Sandstone; fine-med	typical middle Mam Sst facies c PXB, TXB, ripples, pseudokarstic, very minor veins; no deformation and no scint anomalies here
MD060009	360726.553	8641313	159	Sandstone; fine-med sil	typical fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation
MD060010	360479.551	8641190	144	Sandstone; fine-med sil	typical fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation
MD060011	360503.547	8640752	148	Sandstone; fine-med sil	typical fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation
MD060012	360480.543	8640375	139	Sandstone; fine-med sil	typical middle fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation; nice cave c old paintings
MD060013	360528.539	8640013	146	Sandstone; fine-med sil	typical fine-med grained lower Phr Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation; selective silicification of beds
MD060014	360649.534	8639632	150	Sandstone; fine-med sil	typical fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation; selective silicification of beds
MD060015	360774.534	8639632	210	Sandstone; coarse pebbly	pebbly lithic sandstone sitting on lower fine facies of Phr up near top of ridge; large boulders of this facies have rolled down hill; contains clasts of poorly-lithified sst derived from Phe or lower Phr
MD060016	360725.531	8639342	150	Sandstone; fine-med sil	typical fine-med grained lower Gum Sst facies c PB, PXB, TXB, ripples, pseudokarstic; eastern side of Daniel Fault; no deformation
MD060017	360926.526	8638932	159	Sandstone; fine-med brecciated	discrete zones of internal brecciation (clast supported, articulated & rotated clasts, sst matrix) & dip to west (compared to east dips adjacent); brecciation appears early, prior to complete lithification of lower Phr; speculate Daniel Fault is OLD
MD060018	360914.522	8638588	158	Sandstone; fine-med brecciated	coherent & brecciated sst; monomict, clast supported c same grainsize in clasts & matrix; clasts mainly angular; overall stratigraphy preservation with articulated to mildly rotated clasts (essentially in situ bx of semi-lithified sst); adj sst is warped

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MD060019	360933.519	8638334	164	Sandstone; fine-med	coherent sst c local breccia, as per MD060017 & 18; minimal vertical offset of clasts wrt to host Gum Sst; clasts are mod coherent, but are the source for the matrix (ie semi-lithified); no silicification or qtz veining; shallow early bx fmn
MD060020	361001.543	8640324	199	Sandstone; coarse lithic	Maroon crs lithic thk bedded upper Gum Sst, ~10-20 m above PB facies; pebbles of rounded qtz & qtzite, blocky sst, and slabby mudstone intraclasts; rare felsic ign/metc clasts; local substantial soft sed defn and intraformational breccia; local defn bands
MD060021	360779.542	8640241	210	Hematite; specular	small zone of elevated cps near top of maroon sst bench in upper coarse sst facies of Phr; scint anom related to loose chunks of specular hematite (nothing in situ); thorium mainly; soft sed defn and defn bands in adj sst
MD060022	360983.549	8640897	173	Sandstone; coarse lithic	contact between fine PB sst & crs thk bedded sst; base has slabby white claystone intraclasts; above are qtz pebbles, sst clasts, rare red chert clasts & beds of ferruginous concretions; contact concordant in outcrop but weakly discordant over 100s of m
MD060023	361067.549	8640952	150	Sandstone: fine	lower fine planar bedded facies; common ripples; on eastern extremity of Phg ridge, steepening of dip into Daniel Fault east splay; prob juxtaposed against Phn immed to east
MD060024	361065.549	8640951	150	Sandstone: fine with veins	narrow stringer veins of quartz with scattered deep green to aqua minerals, probably secondary Cu
MD060025	361599.521	8638499	235	Sandstone: fine	lower fine planar bedded facies; common ripples; on eastern side of Daniel Fault; not much offset apparent across EW transect here
MD060026	361346.522	8638541	226	Sandstone; coarse lithic	Southern faulted bounded horst; maroon crs lithic thk bedded upper Gum Sst c occas rounded qtz pebble & rare sst clast; large txb and pxb; local soft sediment deformation; contact c fine facies hard to ID;
MD060027	362010.522	8638528	262	Sandstone; coarse lithic	~700 m east of Daniel Fault; contact between fine PB sst & crs v thk bedded sst; basal crs sst has large sigmoidal tabular crossbed 2 m high c reactivation surfaces, olain by maroon txb crs sst c soft sed defn & pebbles
MD060028	362012.522	8638529	262	Sandstone; fine	~700 m east of Daniel Fault; contact between fine PB sst & crs v thk bedded sst; concordant to weakly discordant; fine facies is planar bedded with ripples and small txb; must be >100 m thick
MD060029	361385.537	8639804	184	Basalt & sandstone	At foot of mesa immed east of Daniel Fault that incorporates Gum Sst sitting on Nung Volcs; mainly float of vesic basalt and qtz-chert vugs of Phn, but some loose boulders from top of hill of fine planar bedded & rippled sandstone of lower Phr
MD060030	361122.535	8639628	164	Sandstone; fine	Low dipping ridge of PB sst c ripples (lower Phr), possible underlain nearby by Phn volcs; parting lineation prevalent in sst
MD060031	360904.532	8639439	147	Sandstone; fine	Low dipping ridge of PB sst c ripples & parting lineation (lower Phr); close to top of fine unit
MD060031_#	360904.532	8639439	147	Sandstone; fine	Low dipping ridge of PB sst c ripples & parting lineation (lower Phr); close to top of fine unit
MD060032	361129.538	8639906	172	Sandstone; fine	Adj to eastern splay of Daniel Fault; Phr fine facies c planar bedding, riplples etc; some clay
MD060033	355427.338	8625199	271	Claystone & clayey sandstone	up hill & up hydrologic gradient from Saratoga anomaly; ~15-20 m thk yellow-deep red/pink stained claystone & clayey sandstone (Cretaceous), draping Prot rocks; possible burrows and varves; locally leached to ferruginous crud and ferricrete
MD060201	361076.535	8639685	160	fine to med grained sandstone	inclined sandstone bench dipping westwards towards fault structure
MD064000	347088.394	8630925	251	Lateritic gravel	
MD064001	349934.317	8625361	176	Ferricrete	
MD064002	350815.355	8627637	189	Lateritic gravel	
MD064003	348739.334	8626753	186	Lateritic gravel	

MD064004	355412.341	8625459	250	Altered basalt	
MD064005	366530.206	8619981	142	Sandy soil	No sample taken
MD064006	362916.559	8641875	123	Lateritic gravel	
MD064007	359954.56	8642067	130	Sandstone	
MD064008	359864.557	8641775	131	Fine sandstone	
MD064009	359992.554	8641509	133	Sandstone	
MD064010	359654.552	8641241	154	Lateritic gravel	
MD064011	359895.551	8641211	142	Fine sandstone	
MD064012	360249.548	8640877	134	Fine sandstone	
MD064013	359933.547	8640773	139	Fine sandstone	
MD064014	359933.547	8640773	139	Fine sandstone	Duplicate of MD064013
MD064015	360264.545	8640553		Fine sandstone	
MD064016	360388.54	8640113	138	Fine sandstone	
MD064017	360295.539	8640029	159	Medium sandstone	
MD064017_	360295.539	8640029	159		Collected_date is an estimate based on Year code in sample number .
MD064018	360191.537	8639907		Lateritic gravel	
MD080402	356824.588	8644421	36		
MD064018_	360191.537	8639907			Collected_date is an estimate based on Year code in sample number .
MD064019	360458.535	8639701	140	Fine sandstone	
MD064020	360551.533	8639505	138	Fine sandstone	
MD064021	360621.529	8639169	144	Sandstone	
MD064022	360839.524	8638800	141	Fine sandstone	
MD064023	360850.52	8638428	142	Fine sandstone	