

DataSet	Prospect	Hole_ID	RIG	mFrom	mTo	Formation	Rock1	Rock2	Rock1_Qual	Rock2_Qual	Colour	Regolith	Reg_Qual	Shear	Sulph+ Ore_%	Sulph+ Ore_Type	Vn_Type	Vn_Qual	Int_Alt	Alt_Type	Alt_Qual	Description	
KUTH_2008	SEL45/2007	K45DD027	RC	0	3	Tb	TB		HY		A2/B	SAP	F							10	CY	U	Clay with basalt.
KUTH_2008	SEL45/2007	K45DD027	RC	3	6	Ts/Tb	LCY	TB	Y	HY	B	USAP											Tertiary clay.
KUTH_2008	SEL45/2007	K45DD027	RC	6	9	Ts	LCY		Y		B	USAP											Tertiary clays with fragments of medium grained quartz sandstone - white clay matrix
KUTH_2008	SEL45/2007	K45DD027	RC	9	12	Ts	LCY		Y		A2/B	USAP											As above, clay becoming much darker.
KUTH_2008	SEL45/2007	K45DD027	RC	12	15	Ts	LCY		Y		A2/B	USAP											Orange brown medium grained quartz sandstone.
KUTH_2008	SEL45/2007	K45DD027	RC	15	18	Jdl	LCY	JDD	Y		B/A2	LSAP											Contact - Jurassic dolerite with black carbonaceous mudstone. Clay rich.
KUTH_2008	SEL45/2007	K45DD027	RC	18	21	Jdl	JDD	LCY	FG		B/A2	LSAP											Clayey Dolerite
KUTH_2008	SEL45/2007	K45DD027	RC	21	24	Jdl	JDD		FG	Y	A2/O	SAPRK	F										Mildly ferruginised dolerite.
KUTH_2008	SEL45/2007	K45DD027	RC	24	27	Jdl	LCY	JDD	Y	FG	B/A2	LSAP											Brown doleritic clay and minor fresh dolerite
KUTH_2008	SEL45/2007	K45DD027	RC	27	30	Jdl	LCY	JDD	Y	FG	B/A2	LSAP											As above, with less clay.
KUTH_2008	SEL45/2007	K45DD027	RC	30	33	Jdl	JDD	LCY			B/A2	LSAP											Becoming fresher, with clay decreasing.
KUTH_2008	SEL45/2007	K45DD027	RC	33	36	Jdl	JDD		MG		A2	SAPRK											Bronzite rich dolerite.
KUTH_2008	SEL45/2007	K45DD027	RC	36	39	Jdl	JDD		MG		A2	FRESH											As above
KUTH_2008	SEL45/2007	K45DD027	RC	39	42	Jdl	JDD		MG		A2	FRESH											As above
KUTH_2008	SEL45/2007	K45DD027	RC	42	45	Jdl	JDD				A2/W	FRESH					B	2					As above, with carbonate/calcite.
KUTH_2008	SEL45/2007	K45DD027	RC	45	48	Jdl	JDD				A2	FRESH					Q	0.5					Fresh dolerite as above, with minor light brown clay.
KUTH_2008	SEL45/2007	K45DD027	RC	48	51	Jdl	JDD				A2	FRESH											Fresh dolerite
KUTH_2008	SEL45/2007	K45DD027	RC	51	54	Jdl/Ru	JDD	RSU			A2	FRESH											Contact - Dolerite with very minor dark grey Triassic mudstone present.
KUTH_2008	SEL45/2007	K45DD027	RC	54	57	Jdl/Ru	JDD	RSU			A2	FRESH											As above.
KUTH_2008	SEL45/2007	K45DD027	RC	57	60	Ru/Jd	RSU/RST	JDD			B	FRESH											Brown Parmeener clayey sediments with very minor dolerite.
KUTH_2008	SEL45/2007	K45DD027	RC	60	63	Ru	RSS		FG		B/A	FRESH											Dominantly red - brown fine grained sericitic sandstone.
KUTH_2008	SEL45/2007	K45DD027	RC	63	66	Ru	RSS		FG		B/A	FRESH											As above, with increase in grey sandstone - poorly consolidated.
KUTH_2008	SEL45/2007	K45DD027	RC	66	69	Ru	RSS		FG/MG		A2	FRESH											Medium grained sandstone.
KUTH_2008	SEL45/2007	K45DD027	RC	69	72	Ru	RSS	RSU	FG		A/B	FRESH											As above
KUTH_2008	SEL45/2007	K45DD027	RC	72	75	Ru	RSS	RSU			A/B	FRESH					B						Grey - brown to red sandstone and mudstone. Minor calcite present.
KUTH_2008	SEL45/2007	K45DD027	RC	75	78	Ru	RSS		MG		B	FRESH											Brown fine to medium grained sandstone. Minor dark grey lithic arkose.
KUTH_2008	SEL45/2007	K45DD027	RC	78	81	Ru	RST		S		A	FRESH											Unconsolidated sandy/muddy grey siltstone.
KUTH_2008	SEL45/2007	K45DD027	RC	81	84	Ru	RST	RSS	S		A2/D	FRESH											As above, with dark grey to black sand sized particles
KUTH_2008	SEL45/2007	K45DD027	RC	84	87	Ru	RST	RSU	Y		A	FRESH											Unconsolidated clayey silt
KUTH_2008	SEL45/2007	K45DD027	RC	87	90	Ru	RST	RSU	Y		A	FRESH											as above
KUTH_2008	SEL45/2007	K45DD027	RC	90	93	Ru	RST	RSU	Y		A	FRESH											as above
KUTH_2008	SEL45/2007	K45DD027	RC	93	96	Ru	RST	RSU	Y		A	FRESH											as above
KUTH_2008	SEL45/2007	K45DD027	RC	96	99	Ru	RST	RSU	Y		A2	FRESH											as above
KUTH_2008	SEL45/2007	K45DD027	RC	99	102.1	Ru	RST	RSU	Y		B	FRESH											as above becoming brown in colour
KUTH_2008	SEL45/2007	K45DD027	DD	102.1	103.85	Ru	RSS		MG		Y1/B1	FRESH					B	0.5	S	10	SR	U	Normally (upward) grading quartz sandstone with subordinate mudstone intervals. Minor sheeted calcite veins sub mm scale - orientation generally sub vertical. Very minor muscovite present. Beds sub horizontal.
KUTH_2008	SEL45/2007	K45DD027	DD	103.85	125.1	Ru	RSS		MG		Y1/B1	FRESH					B	6	S				Dominantly yellow brown medium grained quartz sandstone with minor disseminated muscovite. Core very broken between 103.85 to 108.6m. Fe oxides increasing at 111 to 113.4m. Core broken again at 112.9 to 112.98, 113.5 to 119.3m, 120.75 to 121m & 121.3 to 123.2m.
KUTH_2008	SEL45/2007	K45DD027	DD	125.1	125.5	Ru	RSS		MG			FRESH											Unconformity at 125.1m - sandstone beds dipping generally horizontally above 125.1 & steeply (~70degrees) below 125.1m becoming weakly hornfelsic at 125.5m.
KUTH_2008	SEL45/2007	K45DD027	DD	125.5	126.8	Jd	JDD		FG		A1	FRESH					B/G/TC	10	T				Chilled highly fractured dolerite. Stockwork veining dominantly calcareous with minor gypsum/talc.
KUTH_2008	SEL45/2007	K45DD027	DD	126.8	126.9	Ru	RSS		MG		Y/B	FRESH					B	10	S				Sandstone hornfels dipping sub - horizontally.
KUTH_2008	SEL45/2007	K45DD027	DD	126.9	129.1	Ru	RSS		MG		Y/B	FRESH											Medium grained quartz yellow brown sandstone dipping sub - horizontally.
KUTH_2008	SEL45/2007	K45DD027	DD	129.1	133	Ru	RSS		MG		Y/B	FRESH											As above but very broken and faulted.
KUTH_2008	SEL45/2007	K45DD027	DD	133	142.1	Ru	RSS	RSU	MG	BD	Y1/B1	FRESH											Sub - horizontal medium to fine grained quartz sandstone. Very broken between 135.6 to 137m.
KUTH_2008	SEL45/2007	K45DD027	DD	142.1	142.3	Ru	RSS		HF		A/B	FRESH											Sandstone hornfels.
KUTH_2008	SEL45/2007	K45DD027	DD	142.3	156.6	Jdl	JDD		VFG		A1	FRESH					B	3	T/S	10	EP	VSD	Very fine grained dolerite broken at 156.6m. Weakly magnetic with minor patchy epidote alteration.
KUTH_2008	SEL45/2007	K45DD027	DD	156.6	159	Jdl	JDD		FG		A	FRESH			0.5	PY				10	FE		Fault - Carbonate/gypsum matrix with angular matrix supported monomictic brecciated dolerite clasts which are weakly Fe altered with minor bronzite alteration of pyroxenes proximal to fault. Dolerite breccia clasts mm to cm scale and subordinate to matrix.
KUTH_2008	SEL45/2007	K45DD027	DD	159	165.85	Jdl	JDD		FG/MG		A2	FRESH			0.5	PY	B	0.5	S				Blotchy (likely to be variably magnetite and/or chlorite enriched zones) dolerite which is variably magnetic with some (cm) minor zones very magnetic. Core becoming increasingly competent towards 168m. Competent intervals generally around 30cm or greater. Carbonate veins dipping approx 30degrees to core axis.
KUTH_2008	SEL45/2007	K45DD027	DD	165.85	166.15	Jdl	JDD		FG		G/B	FRESH					B/G	1	S				Steeply dipping carbonate/gypsum veins within fine grained dolerite.
KUTH_2008	SEL45/2007	K45DD027	DD	166.15	166.4	Jdl	JDD		FR			FRESH											Chlorite altered dolerite with substantial cm scale calcite/gypsum vein steeply dipping >70 degrees.
KUTH_2008	SEL45/2007	K45DD027	DD	166.4	166.9	Jdl	JDD	JDD	FG	VFG	A2	FRESH					B	0.5	S	10	EP	VP	Very fine grained light grey dolerite dyke cross - cutting fine grained dolerite at approx 70 degrees.
KUTH_2008	SEL45/2007	K45DD027	DD	166.9	168.55	Jdl	JDD		MG		A2	FRESH											Competent medium grained dolerite - dark minerals creating a blotchy black appearance to core (magnetite, chlorite and possibly hornblende in places).
KUTH_2008	SEL45/2007	K45DD027	DD	168.55	168.61	Jdl	JDD	JDD	MG	VFG	A2	FRESH			0.1	PY	B/Z	0.5	D	20	CH/MT	U	Magnetite rich very fine grained dolerite dyke approx 6cm thick cross - cutting host dolerite which is much less magnetic.
KUTH_2008	SEL45/2007	K45DD027	DD	168.61	168.9	Jdl	JDD		MG		A2	FRESH					B/Z	0.5	D	10	CHMT	U	Calcite zeolite vein variable but generally sub vertical orientation approx 2mm thick through "blotchy" magnetite dolerite as described above.
KUTH_2008	SEL45/2007	K45DD027	DD	168.9	175.3	Jdl	JDD	JDD	MG	VFG	A2	FRESH					B/Z	0.5	D/W				Competent medium grained dolerite with scattered carbonate zeolite veins diffuse to wispy. Dolerite blotchy with very scattered dark magnetite bands within the dolerite. These bands are typically horizontal to sub-horizontal.
KUTH_2008	SEL45/2007	K45DD027	DD	175.3	175.9	Jdl	JDD	JDD	MG	VFG	A2	FRESH					B/Z	0.5	D/W				As above.

KUTh_2008	SEL45/2007	K45DD027	DD	175.9	176.1	Jdl	V		FG/MG		A/W	FRESH					B/Z	4	S	20	FE	VSD	Carbonate zeolite vein dip>70 degrees Fe alteration halo associated with vein - minor chlorite.
KUTh_2008	SEL45/2007	K45DD027	DD	176.1	185.1	Jdl	JDD		FG/MG			FRESH											Dolerite as above with increasing fractures towards 182.7 183.8m.
KUTh_2008	SEL45/2007	K45DD027	DD	185.1	187.9	Jdl	JDD		VFG			FRESH					B/Z	0.5	T/W	10	CH	U	Aphanitic dolerite with stockwork carbonate zeolite veins mostly <0.5mm thick but common within this interval. Common m scale chlorite phenocrysts disseminated throughout this interval.
KUTh_2008	SEL45/2007	K45DD027	DD	187.9	188.5	Jdl	JDD			MG/CG	W/B1	FRESH					B/Z	25	S	20	FE/CH	SP	Very minor fault <4cm wide with patchy Fe & Chlorite alteration. Abundant calcite and zeolite - vuggy in places. Bronzite common within the vein/fault halo.
KUTh_2008	SEL45/2007	K45DD027	DD	188.5	201.6	Jdl	JDD		MG		A	FRESH					B/Z	0.5	S/T/W	10	FE/CH	VP	Medium grained competent dolerite with dark "blotchy" appearance as described above.
KUTh_2008	SEL45/2007	K45DD027	DD	201.6	206.4	Jdl	JDD		MG		A	FRESH					B/Z	1.5	S/T/W	10	CH/FE	VP	Dolerite with decreasing competence and increasing vein density. Veins mostly sub-vertical to <70 degrees.
KUTh_2008	SEL45/2007	K45DD027	DD	206.4	208.2	Jdl	JDD		VFG		A2/B	FRESH					B/Z	0.5	S/T/W	10	MT/FE	VP	Aphanitic dolerite dyke dipping >70degrees. Minor Fe alteration of zeolites within the dyke at 206.9m. Minor fault breccia containing dolerite clasts. Core moderately competent and moderately to strongly magnetic.
KUTh_2008	SEL45/2007	K45DD027	DD	208.2	210	Jdl	JDD		CG		A2	FRESH					B/Z/TC	0.5	S/T/W				Competent coarse grained dolerite with minor sub mm carbonate zeolite veins.
KUTh_2008	SEL45/2007	K45DD027	DD	210	214.6	Jdl	JDD	JDD	MG	VFG	A	FRESH					B/Z	1	S/W/T	20	FE/MG	Vp	Dolerite becoming increasingly less competent with increasing vein density. Talc vein @211.2m. Dolerite dyke @ 211.3 to 214.6. Dyke significantly more magnetic than the host dolerite. Fault between 213.6 to 214.5m.
KUTh_2008	SEL45/2007	K45DD027	DD	214.6	219.6	Jdl	JDD		MG		A2/B	FRESH					G/Z/B/TC	0.5	W/S				Competent medium grained dolerite with pervasive chlorite and Fe alteration from 214.6 to 215.3m becoming patchy to 216m. Minor gypsum, carbonate and zeolite filled fault with brecciated dolerite at 218.9m.
KUTh_2008	SEL45/2007	K45DD027	DD	219.6	222.8	Jdl	JDD		MG		A/G	FRESH					G/Z/B	5	S	20	FE/CH	FS/W	Dolerite becoming very broken with abundant gypsum, talc, carbonate and zeolite veins. Weak chlorite and Fe staining associated with veins. Dolerite brecciated between 221 to 222.5m. Strongly altered within this interval.
KUTh_2008	SEL45/2007	K45DD027	DD	222.8	224.8	Jdl	JDD		MG/VCG		A	FRESH					Z/B	0.5	S	10	CH/FE	VP	Dolerite becoming very coarse grained to marginally granophyric between 223.4 to 224.8m.
KUTh_2008	SEL45/2007	K45DD027	DD	224.8	227.8	Jdl	JDD		CG/MG		A	FRESH					Tc/L	0.5	T/S	10	MT/FE	U	Competent dolerite becoming increasingly magnetic @ 225.1 to 226.8m.
KUTh_2008	SEL45/2007	K45DD027	DD	227.8	252.1	Jdl	JDD		VCG/CG		A	FRESH					G/Z/B	0.5	S	10	EP/CH	VP	Generally moderately to locally strongly enriched zones of magnetite and hornblende within the dolerite with epidote rich gypsiferous veins at 235.5m dipping steeply to sub vertically to >70 degrees.