THE BROKEN HILL PROPRIETARY CO. LTD.

Project EL 10/80 GREAT PYRAMID

Drillhole No BPD 4 801130

Sheet 1 of 3

METRES	DRILL RUN METRES RECOV.	DRILL RUN % RECOV.	RQD	DESCRIPTION	VISUAL LOG	ANGLE BEDDING TO LCA	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE INTVL.	MINERALISATION FRACT. DENSITY (per m)	% FRACT. MINSD	VEIN WIDTH mm RANGE	VEIN WIDTH mm AV.	ANGL TO LCA	% BLK ROCK MIN.	VEIN MINERALOGY CASSIT.	WOLF.	QTZ.	MUSC.	SULPH.	CARB.		WALL ROCK ALTERN.	ASSAYS Sn(%)	ASSAYS W(%)	SLUDGES INT.	SLUDGES No (BJ)	SLUDGES ASSAY Sn(%)	
1·4	1·38	98·6	32	Interbedded qt and grey sh. Generally 1-2m sh and 2-3m qt. Qt locally grading into sst. Both qt and sh moderately intensely fractured, locally slumped and brecciated. Very minor development of gossanous fault gouges (½-1cm). All fracturing tends to be irregular. Very minor occurrences of later (barren?) black qtz veinlets. Fe staining very common adj. to faults and in breccias. Fairly "massive" - poorly bedded horizon. Flame structures indicate ↑. Also local grading from sh ↘ qt indicates ↑. Locally intense fracturing gives brecciated appearance to lithologies; vuggy nature of fractures enhances brecciated appearance. Local Fe staining along So Fissility in sh adjacent to Fractures.			BJ136	0·0	2·0	2·0															0 to 3	BJ194		
1·4	1·44	102·9	35																											
1·5	1·44	96·0	53			24	BJ137	2·0	4·0	2·0	(qt) 73	80	<1-2	<1	40-50	≤1	×	×	✓	×	×	×	lim. kaol.	silcfn (sst) + Fe stng Fe stng (sh)						
0·5	0·5	100·0	26																								3 to 6	BJ200		
1·15	1·08	93·9	65				BJ138	4·0	6·0	2·0	(qt) 65	80	<1-5	1	dom. 40-60 locally 20-30	1	×	×	✓	×	×	×	lim. kaol.	silcfn/ Fe stng						
0·75	0·77	102·7	48																											
1·45	1·44	99·3	36				BJ139	6·0	8·0	2·0																	6 to 9	BJ201		
1·55	1·57	101·3	50			10-15	BJ140	8·0	10·0	2·0																				
3·0	3·08	102·7	70	Fractured grey qt, locally sst, with very minor thin 1-2 cm interbeds of sh. In generally regularly fractured, but possibly			BJ141	10·0	12·0	2·0	80, locally 90+	80	<1-10 rare?	1	dom 26 locally variable 30-80	gen'ly 1 rarely 2-4	×	×	✓	✓ only in wide veinlets	×	×	lim. kaol.	local Fe stng. silcfn.						
0·75	0·59	78·6	39																								to 12	BJ202		
1·0	0·95	95·0	52				BJ142	12·0	14·0	2·0																				
1·35	1·31	97·0	40			30	BJ143	14·0	16·0	2·0																	12 to 15	BJ203		
3·0	3·06	102·0	70			40	BJ144	16·0	18·0	2·0	70-90	75	<1-6	1-2	dom. 45 but varies 20-70	2-3	×	×	✓	✓	×	remnant cal?	lim. kaol.	silcfn.						
3·0	3·07	102·3	81			30	BJ145	18·0	20·0	2·0	80-90	80	<1-7	1	40-50	2-3	✓?	×	✓	✓	×	sid.	lim. kaol.	Fe stng/ silcfn			15 to 21	BJ204		
2·95	2·89	98·0	31	brecciated between 18·6 and 19·1m. Abundant Fe staining in breccia zone. Minor dislocation of So along wider fractures. Generally high ∠ between So and Fractures.		21	BJ146	20·0	22·0	2·0																				
						20	BJ147	22·0	23·95	1·95	80-100+	80	<1-10 rare?	1	45-50	2-3	×	×	✓	✓	×	remnant cal?	lim.	Fe stng/ silcfn			21 to 24	BJ205		
				Grey slst/sh, finely interbedded in places, grading to sst/qt with sh interbeds at base of interval. Locally fractured and brecciated. So Fissility well developed. Widespread ferruginisation. Very minor slumping. Rare flames and graded So ⇒ ↑.		31	BJ148	23·95	25·95	2·0	70, loc 90+	60	<1-4 rare?	<1	35-50	<1	×	×	✓	×	×	×	lim. goeth.	Abdt Fe stng.						
3·05	3·09	101·3	76			34	BJ149	25·95	27·95	2·0																	24 to 30	BJ206		* Wider fractures more common in sandier horizons.
3·0	3·01	100·3	67				BJ150	27·95	29·95	2·0	40-50	70	<1-7 *	<1	40-60	1	×	×	✓ rare	×	×	✓	lim. kaol.	Fe stng						
3·0	3·03	101·0	94	Dark grey - grey green slst/sh; bedded in places, cut by numerous irregular qtz - chl ? veinlets, locally black qtz in turn cut by fine (<1-1mm) pale green pinite ? veinlets. Chloritization/pinitization of slst/sh widespread down to 40·7m. So very erratic. Fe staining haloes very common adjacent to fractures. Lith. very poorly fractured. Way up ↑↑(?) Unusual and erratic soln. alteration.	'carb'	53	BJ151	29·95	31·4	1·45														less common						
						40	BJ152	31·4	33·4	2·0	15-30	80	1-5	1	very erratic dom 25 locally 10-60	1-2		×	✓ locally	×	×	×	kaol. chl. locally lim.	Fe stng chltzn (?)			30 to 33	BJ207		Fracturing very erratic in orientn and density. Very unusual blue-gr. colour to rock. local py (?) in pinite veinlets (altn?) in slst.
						38	BJ153	33·4	35·4	2·0																	33 to 36	BJ208		
3·0	3·01	100·3	93			29	BJ154	35·4	37·4	2·0	<10	100	<1-10	<1	very erratic 5-70	1	×	×	✓	×	py	✓?	kaol. chl/pin lim.	"						
3·0	2·97	99·0	85			~21	BJ155	37·4	39·4	2·0																	36 to 39	BJ209		
3·0	3·05	101·7	89	Brecciated qt/slst/sh - sh ↓ with depth. Severely ferruginised, locally chloritized. Rare So contorted. Dom. fault orientation 30 - 40° to ∠ C.A.	'carb'		BJ156	39·4	41·4	2·0																	39	BJ210		
							BJ157	41·4	43·3	1·90																	to 42	BJ211		occurrences of chl.-sporadic in veinlets. pinite more common.
3·0	3·0	100·0	77				BJ158	43·3	45·3	2·0	100+	85	<1-4	1	erratic 40-50	2	×	×	locally	×	py?	✓	chl. kaol. lim. pinite	silcfn. local Fe stng.			42 to 45			
1·2	1·13	94·2	43	Interbedded qt/sst/slst/sh; intensely fractured in places; So poorly defined - probably due to slumping and minor brecciation especially at lithological contacts. Flame structures indicate ↑. So ↑↑ to L.C.A. at ~ 50·0m. Wide veinlets of qtz-carb-mu ↑↑ to J_H more abundant than previously observed.			BJ159	45·3	47·3	2·0	(qt) 100	80	<1-8	1	40-50	1	×	×	✓	✓	×	remnant	lim.				45 to 48	BJ212		
1·8	1·82	101·1	65			12	BJ160	47·3	49·3	2·0																	48 to	BJ213		
						9																					51			

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METRES	DRILL RUN METRES RECOV.	DRILL RUN % RECOV.	RQD	DESCRIPTION	VISUAL LOG	ANGLE BEDDING TO LCA	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE INTVL.	FRACT DENSITY (per m)	% FRACT MINSD	MINERALISATION VEIN WIDTH mm RANGE	VEIN WIDTH mm AV.	ANGL TO LCA	% BLK ROCK MIN.	VEIN MINERALOGY CASSIT.	WOLF.	QTZ.	MUSC.	SULPH.	CARB.		WALL ROCK ALTERN.	ASSAYS Sn (%)	ASSAYS W (%)	SLUDGES INT.	SLUDGES No (ea.)	ASSAY Sn (%)	
3·0	3·01	100·3	59				BJ161	49·3	51·3	2·0	(qt) 90–100+	80	1–6	1	dom. 40–50 erratics 20–60	2–3	×	×	✓	✓	×	✓	lim. kaol*	(local Fe stng Dom. silcFn						* more common in shaley horizons
2·7	2·61	96·7	55				BJ162	51·3	53·3	2·0																	51 to 54	BJ214		
3·0	2·98	99·3	58				BJ163	53·3	55·3	2·0	(s/st) 60–70	80	1–6	1	40–55	1–2	×	×	✓	✓	×	✓	lim. kaol					54 to 57	BJ215		
						20	BJ164	55·3	57·3	2·0																				
3·05	2·98	97·7	73	Bedded grey s/st/sh, beds 10–30cms, locally grades to silicified sst. No obvious facings. Graded So ⇒ ⇑, generally poorly fractured. Rare anastomose veinlets, Minor movement		21	BJ165	57·3	59·3	2·0	50	60	1–4 (rare)	<1	40	<1	×	×	✓	✓ only in wide fracs.	×	×	lim. kaol	Fe stng.				57 to 60	BJ216		Widespread Fe stng along So Fissility.
				along some veinlets. Bedding fissility well developed. Very minor localized slumping at top of interval.			BJ166	59·3	61·3	2·0																				
3·05	3·05	100·0	89			25	BJ167	61·3	64·1	2·8	30–50	70	1–12	1	55	1–2	×	×	✓	✓	×	✓?	lim. sc. kaol	Fe stng				60 to 63	BJ217		
2·9	2·86	98·6	52	Interbedded qt/sst/s/st/sh going to s/st/sh dominated sequence at base of interval. Fairly wide beds, locally slumped, very minor brecciation. Flame structures indicate ⇑. "Streaky" (mylonitic ??) appear to shaley beds at 68·4m. Generally only one set of fractures /veinlets developed. Where 2 or more developed, J$_M$ post date barren, "steeper" veinlets. Abundant Fe staining of s/st with micro			BJ168	64·1	66·1	2·0	(sst) 40	75	1–5	1	55	1	×	×	✓	×	×	×	lim. kaol	silcFn. local Fe stng				63 to 66	BJ218		
3·0	3·04	101·3	39			23	BJ169	66·1	68·1	2·0																	66 to 69	BJ219		
0·3 / 0·05	0·31 / 0·05	103·0 / 100·0	65 / 0				BJ170	68·1	70·1	2·0	(qt/slcfd sst) 85	80	1–7	1–2	35–50	1–2	×	×	✓	✓	×	×	lim. sc. kaol	silcFn & local Fe stng				69 to 72	BJ220		
1·9	1·86	97·9	51	Faulting indicated at 73·9m. Minor fracturing along So Fissility. Minor "offsetting" of sh beds along some fractures – evidence of brecciation within.		38	BJ171	70·1	72·1	2·0																				
1·05	1·02	97·1	65				BJ172	72·1	74·1	2·0																	72 to 75	BJ221		
1·65	1·60	97·0	76																											
1·2	1·16	96·7	59				BJ173	74·1	76·1	2·0	(sh) 35	50	1–3	<1	30–60	<1	×	×	rare	×	×	×	lim. kaol	local Fe stng				75 to 78	BJ222		
3·0	3·03	101·0	78			13	BJ174	76·1	78·1	2·0																				
0·35	0·34	97·1	38			28	BJ175	78·1	79·7	1·6	(sh/s/st) 40–50	70	1–4	<1	50–60	1	×	✓?	✓	✓	×	×	lim. sc.					78 to 81	BJ223		
0·9	0·94	104·4	53																											
1·9	1·9	100·0	29	Fractured grey qt, locally grading to sst, with very minor thin interbeds of sh. Generally regularly fractured, although qt occasionally cut by irregular veinlets. Mineralized veinlets post date barren veinlets. Sulphides becoming more evident with ↑ depth, usually partially to totally altered. Abundant very fine anastomose qtz veinlets, locally chl./pinite – kaol. bearing.		29	BJ176	79·7	81·7	2·0	50–60	80	1–7	1	40–60	1–2	×	×	✓	✓	×	×	lim. sc.	silcFn haloes				81 to 84	BJ224		
3·0	2·97	99·0	76				BJ177	81·7	83·7	2·0																				
2·55	2·52	98·8	76				BJ178	83·7	85·7	2·0	80–90	80	1–8 (one at 15)	1	dom. 40–50 locally 80	2–3	×	×	✓	✓	py	×	lim. sc.	local Fe stng, silcFn				84 to 87	BJ225		
							BJ179	85·7	87·7	2·0																				
3·0	3·01	100·3	79				BJ180	87·7	89·9	2·0	70–90	80	1–5	1	dom. 35 locally 20–80	2–4	√tr	×	✓	✓	py, aspy	×	sc, jar lim.	silcFn				87 to 90	BJ226		jarosite (?) after aspy.
3·0	2·97	99·0	67	Interbedded qt/sst with minor 10–30cm sh beds. So contorted. Qt/sst generally well fractured, sh poorly. Bedding appears to be folded at 93·15 – very difficult to justify due to very low So intersection ∠'s with L.C.A. Abundant kaol. filled fractures in sh (along So Fissility). Way up ??? Rare anastomose kaol – sc veinlets, "sub-vertical" Silicification ↓ with depth – silicified sst at base of interval. Minor brecciation observed in some veinlets. Flames ⇑.			BJ181	89·9	91·9	2·0																90 to 93	BJ227		
2·5	2·52	100·8	67			11 0 10 12	BJ182	91·9	93·9	2·0	30–50	70	1–5	1	40	3	√tr	√tr	✓	✓	py, aspy	×	sc, jar lim. kaol	silcFn				93 to 96	BJ228		
0·68	0·77	113·2	75				BJ183	93·9	95·9	2·0																				
1·7	1·64	96·5	38				BJ184	95·9	97·9	2·0	gen. 30–50 locally 80+	70	1–7	1	45–50	1–2	×	×	✓	✓	py, aspy	×	lim. sc.	silcFn local Fe stng of sst.				96 to 99	BJ229		
0·07	0·07	100·0	0			16	BJ185	97·9	99·6	1·7																				
1·4	1·34	95·7	27																											
0·42	0·42	100·0	67			12																								

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METRES	DRILL RUN METRES RECOV.	DRILL RUN % RECOV.	RQD	DESCRIPTION	VISUAL LOG	ANGLE BEDDING TO LCA	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE INTVL.	MINERALISATION FRACT. DENSITY (per m)	% FRACT. SURFS	VEIN WIDTH mm RANGE	VEIN WIDTH mm AV.	ANGLE TO LCA	% BLK ROCK MIN.	VEIN MINERALOGY CASSIT.	WOLF.	QTZ.	MUSC.	SULPH.	CARB.		WALL ROCK ALTERN.	ASSAYS Sn(%)	ASSAYS W(%)	SLUDGES INT	SLUDGES No. (BJ)	SLUDGES ASSAY Sn(%)	
1·85	1·87	101·1	38	Massive grey sh, locally graded to slst. So very poorly developed. Very poorly fractured. Cut by rare irregular qtz-mu veinlets. Local occurrences of fine limonitic fractures.		5–10	BJ 186	99·6	101·6	2·0	gen'lly <20 locally 60+	80	<1–10 rare?	<1	30–50 locally 20–70	<1	×	×	*✓	*✓	*py	×	lim. kaol.	local Fe stng			99 to 102	BJ 230		* only in wide fractures/veinlets.
1·5	1·34	89·3	44																											
1·0	0·99	99·0	70	Fractured qt locally grading to sst. Massive sequence – no sh interbeds. Regularly fractured by 1 dom. and 1 secondary set of fractures. "Flatter" barren fracture/veinlets post date J_M. "Pitted qt" between 111·0–111·8m – abundant limonitic pits in host qt. Rare small <1–2 mm pyritic clusters in body of qt.			BJ 188	103·6	105·6	2·0																	102 to 105	BJ 231		
0·33	0·19	57·6	0																											
0·65	0·64	98·5	30																											
1·33	1·30	96·3	28				BJ 189	105·6	107·6	2·0	var. 60–100+	85	<1–7	1	30–40 locally 10–60	2	✓tr	×	✓	×	py. aspy	×	lim. jar. sc.	silcfn			105 to 108	BJ 232		
1·12	1·17	104·5	62																											
2·9	2·79	96·2	62				BJ 190	107·6	109·6	2·0																					
0·15	0·13	86·7	0	Very fine grained dark grey-green clay grading to a fine grained green diorite – over 0·6m. Diorite varies in colour from grey to green, locally to dark green and is locally amygdaloidal. Contact with qt is fracture controlled – ∝ ~ 35–40° to L.C.A. Fracturing poorly developed, and varies greatly in orientation.		10	BJ 191	109·6	112·45	2·85	70	80	<1–5	1	35–50	1–2	×	×	✓	✓	py. aspy	✓	lim. sc.	silcfn			111 to 114	BJ 234		
1·85	1·84	99·5	70																											
0·88	0·87	98·9	49				BJ 192	112·45	114·45	2·0																					
2·22	2·25	101·4	53				BJ 193	114·45	116·45	2·0	<10	80	<1–2	1	20–60	<<1	×	×	×	×	×	?	chl?	—			114 to 117	BJ 235		
1·8	1·80	100·0	71				BJ 194	116·45	118·45	2·0																					
3·0	2·99	99·7	88				BJ 195	118·45	120·45	2·0																					
1·95	1·97	101·0	72	Some veinlets appear to be chl. bearing. Rare angular inclusions of qt in diorite. Grain size varies slightly with depth – both ↑ and ↓.			BJ 196	120·45	122·45	2·0																	117 to 120	BJ 236		
2·90	2·90	100·0	77				BJ 197	122·45	124·45	2·0	<10	90	<1–8	1–2	20–50	<1	×	×	×	×	×	✓?	chl?	—			120 to 123	BJ 237		
4·85	4·87	100·4	75				BJ 198	124·45	125·45	2·0																					
Σ125·55	124·69	99·32	64																								123 to 125	BJ 238		

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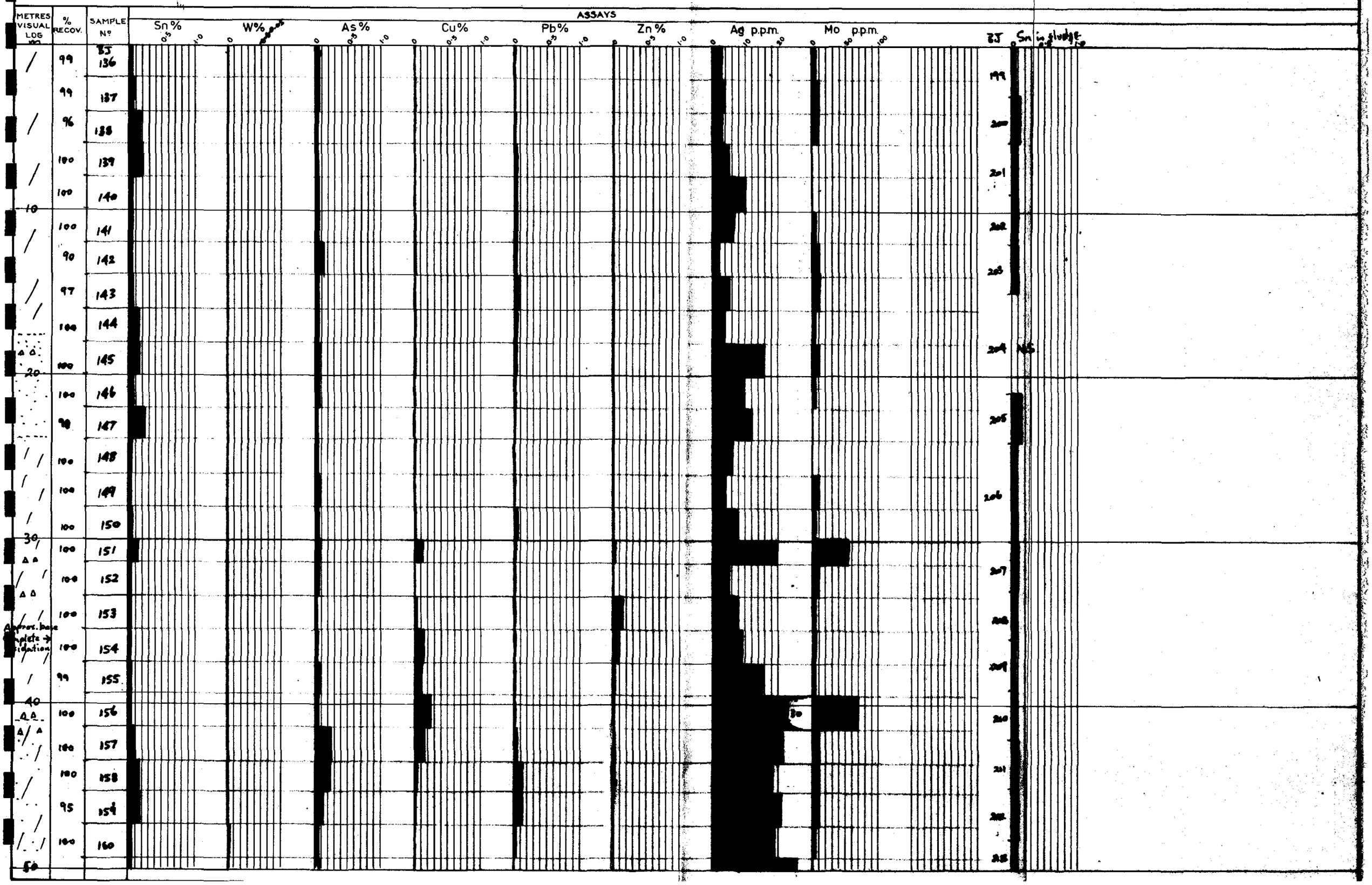

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METRES VISUAL LOG m	% RECOV.	SAMPLE No	Sn %	W %	As %	Cu %	Pb %	Zn %	Ag p.p.m.	Mo p.p.m.	BS	Sn in sludge
	100	161										
	97	162									214	
	98	163									215	
	99	164										
	98	165									216	
60	99	166										
	100	167									217	
	99	168									218	
	100	169									219	
	100	170										
70	99	171									220	
	97	172									221	
	97	173										
	1000	174									222	
	100	175									223	
80	100	176										
	99	177									224	
	99	178									225	
	99	179										
	1000	180									226	
90	99	181										
	100	182									227	
	100	183									228	
	100	184										
	100	185									229	
100												

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METRES VISUAL LOG m	% RECOV.	SAMPLE No	ASSAYS Sn %	W %	As %	Cu %	Pb %	Zn %	Ag p.p.m.	Mo p.p.m.	RT	Sn in sludge
	100	186									230	
	95	187									231	
	98	188										
	100	189									232	
	96	190									233	
110												
	99	191										
	99	192									234	
	100	193									235	
	100	194										
120	100	195									236	
	100	196									237	
	100	197									238	
EOH	100	198										