

COMPANY: Allegiance Mining
PROJECT: Melba Flats
HOLE NUMBER: MF 22

Commenced:	18 March 2002
Completed:	25 Mar 2002
Logged By:	L.A.Newnham
Drilled By:	Almac

Purpose of Hole
to test for massive sulfides in main central gabbro body up dip from MF 13 and south-west along strike from MF 11;

Comments on Completion
the central gabbro was only two metres thick; a 200 mm wide massive sulfide body was developed on the footwall of this dike; in addition to carrying high grades of nickel, copper, PGM and gold, the sulfides also contained elevated Pb and Zn which elsewhere in this field, indicates mineralisation near the margins of the principal massive sulfide body;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
GDA	5365955.9	366425.6	2200.3	-45	291

Length (m)
80.5

Hole Size	
To (m)	Size
80.5	HQ

Significant Core Loss Zones		
From	To	%Rec.
0.0	36.9	see log

Hole Condition on Completion
all down hole equipment removed from hole; 100 mm PVC collar pipe left in hole;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	% Ni	% Cu	% S	Co ppm	Zn	Pb	As
44.0	44.2	100	massive sulfides	0.2	6.65	8.10	13.60	1060	3.05	1.8	0.23
					0.76 Pt	1.36 Pd	0.2 Au				
					ppm	ppm	ppm				

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co ppm	Zn %	As %
0.0	5.0	CLAY and RUBBLE: poor recovery;	0.0	4.0	rubble											
			4.0	5.5	10											
5.0	9.5	WEATHERED GABBRO (?) light gray, medium grained strongly weathered and decomposed rock - possibly a weathered gabbro; minor sulfides as individual euhedral grains (pyrite) and small aggregates; at 6.1 m., definite "lumps" of dark gray fresher gabbro with minor sulfides; gradational contact with unit below;	5.5	6.1	30				5.0	6.1	0.01	1.75	0.14	96	0.04	<0.003
			6.1	8.3	50				6.1	8.3	0.01	0.48	0.03	82	0.05	<0.003
			8.3	8.7	25				8.3	9.5	0.01	0.06	0.01	72	0.06	<0.003
			8.7	9.5	40											
9.5	13.9	WEATHERED GABBRO: similar to above but slightly fresher; light gray, medium grained gabbro, intermixed with minor component of fine grained gray fissile sediment; minor pyrite aggregates and veins; indistinct contact with unit below;	9.5	10.1	80				9.5	10.5	0.01	0.62	0.03	78	0.04	<0.003
			10.1	10.9	100				10.5	11.5	0.02	2.50	0.01	110	0.1	<0.003
			10.9	11.4	95				11.5	12.5	0.01	0.32	0.01	56	0.03	<0.003
			11.4	12.9	90				12.5	13.9	0.01	0.30	0.01	74	0.05	<0.003
			12.9	13.3	95											
			13.3	14.4	100											
13.9	32.0	HEMATITIC SEDIMENTS: red-brown fine grained hematitic sediments; HW and FW contacts very broken (rubble), and therefore indistinct; FW contact bleached; core generally broken but recoveries good; BCA 60-70°; no sulfides observed; below 27 m., core becomes bleached and very broken with some core loss;	14.4	22.7	100											
			22.7	25.2	85											
			25.2	26.5	100											
			26.5	28.1	90											
			28.1	29.5	20											
			29.5	30.4	90											
			30.4	31.1	65											
			31.1	32.0	100											
32.0	39.5	GABBRO: dark green-gray, medium grained gabbro, moderately fresh in places, but some intervals intensely leached (carbonate ?/ sulfide? removed) and friable with associated core losses; HW contact very broken and not traceable; FW contact also broken and leached, but possibly irregular and therefore discordant; minor disseminated sulfides (pentlandite, pyrrhotite) throughout; more abundant near..	32.0	35.5	100				32.0	33.0	0.40	1.74	0.32	240	0.03	<0.003
			35.5	36.9	40				33.0	34.0	0.06	0.52	0.01	90	0.02	<0.003
			36.9	38.1	90				34.0	35.0	0.02	0.32	<0.01	78	0.01	<0.003
			38.1	39.5	100				35.0	37.0	0.07	0.37	0.01	110	0.02	<0.003
									37.0	38.0	0.15	0.35	<0.01	110	0.05	<0.003
								38.0	39.5	0.07	0.16	<0.01	62	0.02	<0.003	

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co ppm	Zn %	As %
32.0 continued.....	39.5	..HW; sulfides common in thin fractures and veinlets extending into the FW sediments;														
39.5	42.3	SEDIMENTS: light gray, fine grained sediments, strongly brecciated and with thin seams of possible bleached mafic material; sediments are strongly brecciated on a micro scale with fractures commonly healed with thin quartz and quartz-carbonate veins, often carrying significant sulfides (pyrite, pyrrhotite ?, galena and sphalerite); late stage carbonate veining also common, typically carrying significant sulfides; several clasts or lumps of bleached medium grained material, possibly gabbro; core moderately competent, but some broken zones;	39.5	42.3	100											
42.3	44.3	GABBRO and MASSIVE SULFIDE: 42.3-42.7 m: HW is a mixed zone of light gray-brown fine grained intrusive and brecciated clasts; disseminated sulfide common in intrusive; calcite veining with sulfides common; leached in places; 42.7-43.5 m: light gray-light brown fine grained intrusive (?); minor disseminated sulfides throughout; minor irregular white-brown carbonate veining; major carbonate banding 50° CA near base; 43.5-44.0 m: unit dominated by cream-white carbonate with disseminated sulfides - pyrite, pyrr., galena, sphalerite; crumbly in places; 44.0-44.3 m: gabbro, largely replaced by 200 mm. band of massive sulfide, dominated by chalcopyrite, pentlandite and significant galena and sphalerite; massive sulfide cut by several thin late stage carbonate veins carrying galena & sphalerite;	42.3	44.3	100				42.3	43.3	0.01	0.48	<0.01	50	0.02	<0.01
									43.3	44.0	0.03	1.75	0.09	38	0.97	<0.01
									44.0	44.2	6.65	13.60	8.10	1060	3.05	0.23
											Pt g/t	Pd g/t	Au g/t			
									44.0	44.2	0.76	1.36	0.21			

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co ppm	Zn %	As %
42.3 continued.....	44.3	FW contact with sediments below irregular but overall steep (70° CA);														
44.3	47.0	BRECCIATED SEDIMENTS: bleached and brecciated fine grained sediments; unit intensely brecciated and healed with white- cream carbonate veins carrying common galena, sphalerite and pyrrhotite/pentlandite (?); late stage carbonate veining common, also carrying significant sulfides; contact with unit below broken but probably 30° CA;	44.3	47.0	100				44.2	45.0	0.04	1.33	0.01	46	0.4	<0.003
									45.0	45.9	0.01	0.48	<0.01	46	0.2	<0.003
47.0	51.3	MAFIC SEDIMENT (?) : medium gray, medium-coarse grained gritty sediment, possibly with a minor gabbro content (?); minor thin irregular carbonate veins and several leached intervals; BCA 60° CA; rare specs disseminated sulfide; ground conditions good; conformable contact with unit below;	47.0	50.5	100				47.0	48.0	0.01	0.18	<0.01	68	0.07	<0.003
			50.5	51.6	95				48.0	49.0	0.01	0.13	<0.01	66	0.02	<0.003
									49.0	51.3	0.01	0.28	<0.01	68	0.02	<0.003
51.3	74.9	INTERBEDDED GRITS and SILTSTONE: light-medium gray interbedded fine grained siltstones and coarser grit bands; possibly a significant mafic component to the sediments near the top of the interval; soft sediment slumping and deformation common throughout; BCA generally 60°; several large blocks of fine grained gabbroic material to 56.5 m; minor thin (1-5 mm) carbonate veining throughout; several thicker quartz-carbonate veins between 69-75 m; minor coarse sulfides including euhedral pyrite both in the carbonate veins and in the adjacent sediments;	51.6	53.5	90											
			53.5	74.9	100											

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Commenced:	26 Mar 2002
Completed:	04 Apr 2002
Logged By:	L.A.Newnham
Drilled By:	Almac

Purpose of Hole
to test the Nickel Reward massive sulfide deposit down dip and west of MF 22;

Comments on Completion
MF 23 intersected three gabbro hosted high grade massive sulfide bodies within a 12 m wide interval of mixed gabbro and brecciated sediments; these intersections lie approx. 20 m. south west along strike of MF 11 and 20 m. updip of MF 13, both of which intersected high grade massive sulfides; the massive sulfides in MF 23 carried high grades of Ni and Cu and significant Pt Pd and Au.

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
GDA	5365955.4	366426.8	2200.3	-65	261

Length (m)
112.5

Hole Size	
To (m)	Size
112.5	HQ

Significant Core Loss Zones		
From	To	%Rec.
0.0	7.4	60

Hole Condition on Completion
all down hole equipment removed from hole; PVC collar pipe installed;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	% Ni	% Cu	% S	% Co	Pt g/t	Pd g/t	Au g/t
64.1	75.2	100	gabbro with blocks of sediments and three zones of massive sulfide	11.1	1.45	0.67					
incl											
64.1	65.6	100	massive sulfide in gabbro	1.5	6.10	2.00	13.20	0.10	0.47	0.71	0.44
69.0	69.5	100	massive sulfide in gabbro	0.5	4.01	1.00	14.00	0.10	0.45	1.00	0.33
74.5	75.2	100	massive sulfide in gabbro	0.7	6.16	4.76	21.20	0.14	0.48	0.71	0.28

DOWN HOLE SURVEY DATA

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
0.0	3.0	NO CORE: triconed;	0.0	3.0	0											
3.0	5.0	DECOMPOSED SEDIMENTS: gray siltstones and black shales, largely decomposed to clay; very broken;	3.0	4.0	50											
			4.0	4.6	65											
			4.6	6.0	60											
5.0	8.2	SILTSTONE and SHALE: gray fine-medium grained siltstone interbedded with black shales; slumped and brecciated in places; trace syngenetic pyrite; core very broken;	6.0	7.4	75											
			7.4	8.1	90											
8.2	9.2	GRITS: light gray medium grained gritty sediments;	8.1	9.2	100											
9.2	9.7	GABBRO: medium gray, medium grained gabbro; irregular and indistinct contacts with sediments either side but appears unconformable; thin quartz veins; minor disseminated sulfides; core moderately competent;	9.2	9.7	100				9.2	9.7	0.01	1.08	<0.005	<0.001	0.03	<0.003
9.7	15.1	SILTSTONE and GRITS: medium gray, fine-medium grained siltstone, interbedded with gritty sediments containing fine shale fragments; 12.3 m: 200 mm "block" of dark gray medium grained sulfidic gabbro, reduced to rubble; disseminated syngenetic pyrite common in silicified, cherty sections; ground moderately broken;	9.7	15.1	100											
15.1	48.0	HEMATITIC SEDIMENTS, occasional "lumps" fine grained gabbro: unit of fine grained sediments, dominated by hematitic siltstone but with minor interbeds of gray siltstone; BCA variable;	15.1	48.0	100											

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
15.1 continued.....	48.0	BCA 19 m: 45°; 23 m: 60°-70°; 26 m: 60°; 29 m: 30°; 33 m: 45°; 37 m: 50°; 41 m: 50-60°; 47 m: 40°; thin random white-cream carbonate and quartz-carbonate veining common; trace syngenetic pyrite; at 36.4 m: minor "inclusion" of dark fine- medium grained gabbro; ground conditions generally good;														
48.0	50.5	GABBRO: dark gray medium grained gabbro; HW contact marked by 20 mm quartz- carbonate vein and appears to be at high angle (approx 90° ?) to bedding which is 40° CA; FW contact sharp at 85° CA discordant to bedding; random minor quartz-carbonate veins; trace disseminated sulfides; ground conditions excellent;							47.0	48.0	<0.01	0.12	<0.005	<0.005	0.01	<0.003
			48.0	50.5	100				48.0	49.0	0.02	0.10	<0.01	<0.01	0.01	<0.003
									49.0	49.7	0.02	0.16	<0.01	<0.01	<0.01	<0.003
									49.7	50.5	0.03	0.12	0.01	<0.01	0.02	<0.003
50.5	57.0	HEMATITIC SEDIMENTS with MINOR GABBRO: interval of mixed fine-medium grained hematitic sediments intermixed with minor gabbro dikes which appear to have been intruded into the surrounding sediments; 50.5-51.5 m: hematitic sediments; 51.5-52.1 m: blocks of dark gray, medium grained sulfidic gabbro intermixed with clasts of sediments; both HW and FW contacts irregular; 52.1-54.2 m: dark gray fine grained silicified sediment (? or fine grained intrusive ?) cut by network of thin carbonate veins with sulfide; 54.2-57.0 m: hematitic sediments; BCA 30- 40°; at 56.6 m., small 50 mm inclusion of dark gray gabbro; bottom 200 mm bleached and gritty;	50.5	57.0	100				51.5	52.5	0.01	0.13	0.02	<0.01	0.01	<0.003
									52.5	53.5	0.01	<0.1	0.01	<0.01	0.01	<0.003
									53.5	54.2	0.01	<0.1	0.01	<0.01	0.01	<0.003
57.0	57.6	GABBRO with abundant sulfides: dark gray medium grained gabbro with.....	57.0	57.6	100											

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
57.0	57.6	abundant sulfides as disseminated grains, in veinlets and as aggregates; HW contact sharp 40° CA; FW contact < 30° CA as dribbles along the side of the core to 58 m;														
continued.....																
57.6	64.1	FINE GRAINED GABBRO (?) and DISRUPTED SEDIMENTS: light gray fine grained sediments intermixed with fine-medium grained light gray intrusive (?); evidence of strong brecciation and deformation and intrusive nature of gabbro with irregular bedding and clasts of sediments common in intrusive (?); sulfides minor-common in intrusive (?) as disseminated grains, large aggregates to 10 mm., and thin seams infilling fine veins; only trace sulfide in sediments; sharp contact with unit below;	57.6	64.1	100				57.0	57.6	0.09	0.44	0.09	0.01	0.03	<0.003
									57.6	58.1	0.03	0.12	0.02	0.006	0.01	<0.003
									58.1	59.0	0.01	0.22	0.01	0.005	0.01	<0.003
									59.0	60.0	0.01	1.16	0.01	0.004	0.01	<0.003
									60.0	61.0	0.01	0.74	0.01	0.006	0.01	<0.003
									61.0	62.0	0.01	0.50	<0.01	0.006	0.01	<0.003
									62.0	63.0	0.01	1.18	<0.01	0.007	0.01	<0.003
									63.0	64.1	0.02	0.15	0.01	0.006	0.02	<0.003
64.1	75.2	GABBRO and blocks sediments; sulfidic, including massive sulfides: zones of dark gray-black-green fine grained gabbro containing abundant sulfides and several bands of massive sulfide, interbedded with fine grained gabbro containing minor-common sulfides and large blocks of disrupted sediments; 64.1-64.7 m: black medium grained gabbro containing abundant sulfides as coarse aggregates and irregular seams of massive sulfides; HW contact 70° CA; massive sulfide seam starting at 64.7 m., cuts across core and becomes total massive sulfide by 64.9 m; 64.7-65.3 m: 600 mm band of massive sulfide (chalcopyrite and pentlandite, minor pyrrhotite); irregular HW contact (see above) but sharp FW at 45° CA; 65.3-65.7 m: fine grained light gray gabbro with common sulfides and thin white.....	64.1	75.2	100				64.1	64.7	4.20	6.70	1.14	0.043	0.04	<0.003
									64.7	65.3	10.30	23.90	2.95	0.182	0.02	0.01
									65.3	65.6	1.54	4.70	2.00	0.032	0.04	<0.003
									65.6	66.1	0.06	0.26	0.02	0.004	0.01	<0.003
									66.1	66.6	0.45	1.38	0.64	0.011	0.03	0.01
									66.6	67.6	0.06	0.79	0.06	0.008	0.02	<0.003
									67.6	68.7	0.03	0.35	0.01	0.007	0.03	<0.003
									68.7	69.0	0.12	1.01	0.18	0.008	0.09	0.01
									69.0	69.3	1.03	1.70	0.49	0.013	0.04	<0.003
									69.3	69.5	8.50	32.40	1.76	0.228	0.01	0.04
									69.5	69.9	0.34	0.98	0.05	0.01	0.02	<0.003
									69.9	70.9	0.05	0.34	0.03	0.006	0.02	<0.003
									70.9	72.0	0.01	0.24	0.01	0.003	0.01	<0.003
									72.0	72.4	0.03	5.20	0.04	0.007	0.02	<0.003
									72.4	73.4	0.01	0.40	0.01	0.004	0.01	<0.003
									73.4	74.4	0.01	0.35	<0.002	0.005	0.01	<0.003
									74.4	74.5	0.40	1.14	0.28	0.005	0.03	<0.003
									74.5	75.0	8.05	28.40	6.45	0.196	0.06	0.003
									75.0	75.2	1.46	3.45	0.55	0.02	0.56	<0.003

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Pt g/t	Pd g/t	Au g/t			
64.1	75.2	carbonate veins; 65.7-66.1 m: rotated block of sediments; light gray fine grained, BCA parallel CA; HW contact irregular < 30° CA; FW contact undulating through core to 66.3 m; sediments are brecciated with fine veining and interstices infilled with carbonate and sulfides; 66.1-66.7 m: dark gray gabbro with abundant coarse sulfides as large blebs; contact with sediments above undulates through core to 66.3 m; FW contact sharp 30° CA, starting at 66.6 through to 66.7 m; 66.7-68.7 m: light gray finer grained intrusive (?) with fine (<2 mm) white carbonate veining; minor-common sulfides within the thin carbonate veins and fractures, as irregular aggregates and fine disseminations; 68.7-69.0 m: broken breccia zone with fragments fine grained intrusive in carbonate matrix within clay; zone broken - POSSIBLE FAULT 69.0-69.3 m: dark gray-black medium grained gabbroic rock; strongly jointed and cut by common quartz-carbonate veining; common-abundant sulfides as disseminations and aggregates; 69.3-69.5 m: massive sulfides - pentlandite, chalcopyrite and pyrrhotite; diffuse and irregular HW; sharp FW 70° CA; 69.5-72.3 m: dark gray intermixed medium gray gabbro and fine grained mafic rock; overall brecciated texture; in top 300 mm., a set of 2-3 mm veins have been strongly leached (? carbonate ?); remainder of unit cut by random 1-2 mm white carbonate veins; masses of carbonate also developed in brecciated interstices; sulfides throughout, ranging from minor to....							64.1	64.7	0.200	0.445	0.215			
continued.....									64.7	65.3	0.715	0.965	0.640			
									65.3	65.6	0.540	0.715	0.475			
									69.0	69.3	0.385	0.650	0.220			
									69.3	69.5	0.555	1.660	0.510			
									74.5	75.0	0.615	0.890	0.375			
									75.0	75.2	0.150	0.255	0.055			

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
64.1	75.2	abundant as disseminations, large irregular masses, and thin veinlets around breccia fragments; towards base, large blocks of mafic rock are present with fragments of silicified sediments; 72.3-74.4 m: rotated block of light-medium gray, fine grained well bedded silicified sediments; bedding parallel to core axis; some patches/brecciated fragments/veins gabbro within the sediments; HW contact is irregular and strongly fragmental; FW contact is very sharp 30° CA; sulfides common-abundant as blebs, stringers, large (2-5 mm) clots and disseminations; core competent; 74.4-75.2 m: dark gray sulfidic gabbro containing a central 400 mm band of massive sulfide - pentlandite, chalcopyrite and pyrrhotite; the dark gray gabbro selvage either side of the massive sulfide contains abundant sulfides; HW contact very sharp 30° CA; FW contact marked by white carbonate vein containing coarse sphalerite, approximately 40-50° CA; core moderately competent;														
continued.....																
75.2	81.2	MIXED SEDIMENTS and MAFIC UNITS, sulfidic: light gray fine grained sediments mixed with dark gray fine-medium grained mafic (?) igneous (?) rocks; bedding where seen is highly variable 30-60° CA; brecciated zones common; quartz-carbonate and carbonate veining common, developing into larger masses in places; coarse honey colored sphalerite common in....	75.2	81.0	100				75.2	76.2	0.02	0.82	0.01	0.007	0.07	<0.003
									76.2	77.2	0.02	2.05	0.01	0.008	0.05	<0.003
									77.2	78.2	0.01	0.29	<0.002	0.005	0.17	<0.003
									78.2	79.2	0.01	0.17	<0.002	0.005	0.02	<0.003
									79.2	80.2	0.01	0.31	<0.002	0.005	0.01	<0.003
									80.2	81.2	0.01	1.99	<0.005	0.004	0.02	<0.003

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
75.2 continued.....	81.2	some of the quartz-carbonate veins; sulfides common throughout, generally as fine disseminations but also as clots in the sediments; ground competent; contact with sediments below very sharp 60° CA;														
81.2	95.2	SEDIMENTS, minor gabbro: light-medium gray interbedded fine grained siltstone-mudstone and grit bands; bedding is very pronounced and uniform with individual beds being only 5-10 mm thick; BCA 80° CA; minor microfracturing disrupts bedding in places; minor sulfides present as fine disseminations and coarse clots; 84.6-85.0 m: medium grained, dark gray gabbroic rock with 2-3% sulfides; HW contact irregular but approx. 60° CA and discordant to bedding; between 89.0-95.0 m., several coarser grained units which could be either mafic intrusives or dark colored grits- contain minor disseminated sulfides; BCA at 95 m: 70° ; ground conditions very good;	81.0	95.2	100											
95.2	99.5	HEMATITIC SEDIMENTS: interbedded fine grained hematitic siltstone and hematitic grits; BCA uniform 70° CA; white carbonate as random thin veins and ocassional larger masses; very rare spec fine grained sulfide; gradational with unit below;	95.2	99.5	100											
99.5	112.5	SILTSTONE-SHALE-GRIT: light gray siltstone and gritty beds interbedded with dark gray-black shale; with shale component increasing down hole and becoming dominant below 107 m;	99.5	112.5	100											

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 23

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[illegible]

COMPANY: Allegiance Mining
PROJECT: Melba
HOLE NUMBER: M24

Commenced:	08 April 2002
Completed:	16 Apr 2002
Logged By:	L.A.Newnham
Drilled By:	Almac

Purpose of Hole
hole was designed to test the Nickel Reward gabbros to the immediate south of MF 13 and down dip of MF 23;

Comments on Completion
the hole is interpreted as having intersected the main gabbro where it intersects the South fault; an interval of brecciated gabbro and sediments between 85.0-89.0 m. is interpreted as the faulted equivalent main gabbro; it contained only minor nickel, copper, lead and zinc sulfides;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
GDA	5365942.8	366424.1	2200.2	-70	242.5

Length (m)
166.5

Hole Size	
To (m)	Size
47.3	HQ
166.5	NQ

Significant Core Loss Zones		
From	To	%Rec.
0.0	4.3	see log

Hole Condition on Completion
all down hole equipment removed from hole; PVC collar pipe inserted in hole;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	% Ni	% Cu	% S				
86.5	87.2	100	brecciated and sulfidic gabbro and sediments	0.7	0.13	0.14	1.06				

DOWN HOLE SURVEY DATA

COMPANY: Allegiance Mining NL
PROJECT: Melba Flats
HOLE NUMBER: MF 24

[illegible]

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 24

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
0	2.3	TRICONE: no core;	0.0	2.3	0											
2.3	4.0	SHALE RUBBLE: very broken, dark gray shale and siltstone rubble;	2.3	3.1	25											
			3.1	4.3	60											
4.0	16.4	SILTSTONE, minor grit: medium-light gray siltstone with minor grit interbeds; BCA generally 50-60° but as high as 70°; minor specs of sulfides; core broken but becoming fresher and more competent down hole;	4.3	5.3	80											
			5.3	6.0	95											
			6.0	7.5	100											
			7.5	8.8	95											
			8.8	10.5	95											
			10.5	11.6	100											
			11.6	13.1	90											
16.4	16.6	BLEACHED CONTACT ZONE: light brown fine grained bleached sediments in contact with gabbro; 3 mm wide galens vein parallel to bedding at 55° CA;	13.1	16.5	100											
16.6	17.1	GABBRO: dark gray medium grained gabbro; only trace disseminated grains sulfides; HW contact broken; FW contact possibly parallel to bedding at 55° CA;	16.5	17.1	100											
17.1	19.0	SILTSTONE: dark gray siltstone, minor gritty component; BCA 35-40°; core competent;	17.1	19.0	100											
19.0	19.4	GABBRO: dark gray medium grained gabbro cut by common random thin veins of white carbonate; HW contact broken; FW contact possibly parallel to bedding at 45°	19.0	19.4	100											
19.4	22.6	SILTSTONE and GRIT: medium gray interbedded siltstone and fine grits, becoming hematitic towards base;	19.4	22.6	100											

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 24

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
19.4 continued.....	22.6	BCA 60°; minor sulfides as thin stratabound seams and isolated cubic grains; core competent;														
22.6	23.0	GABBRO: dark gray medium grained gabbro; trace spec of disseminated sulfides; HW contact sharp 45° CA but strongly discordant to bedding above; FW contact sharp 55° CA; relationship to bedding indistinct;	22.6	23.0	100											
23.0	85.2	HEMATITIC SEDIMENTS: interbedded hematitic siltstone and fine gritty beds; BCA's: 25 m: 55°; 37 m-35-40°; 47 m-70°; 52 m- 45°; 57 m-30°; 61 m-50°; 70 m-45-50°; 79 m-50°; soft sediment slumping and brecciation widespread; minor random quartz-carbonate veining throughout, often forming breccia zoneswith included fragments of hematitic sediments; at 77.5 m: 150 mm.gabbro dike, slightly discordant to sediments in strike and higher CA contacts; (bedding 40°, dike 50°); no sulfides observed; gradational with unit below;	23.0	85.2	100											
85.2	89.0	BRECCIATED SEDIMENTS, GABBRO, sulfidic: mixed interval of light fawn, bleached, silicified and brecciated fine grained sediments and irregular gabbro sections; cut by extensive quartz-carbonate and carbonate breccia zones and veins with abundant sulfides (pyrrhotite, pyrite, pentlandite?); 85.2-86.5 m: dark gray-light brown fine grained sediments, bleached in places, altered and crackle brecciated; minor veining infilled with soft green mafic material (chlorite?);	85.2	89.0	100				85.2	86.5	0.01	0.27	<0.01	0.006	0.05	<0.005
									86.5	87.2	0.13	1.06	0.14	0.01	0.08	<0.005
									87.2	87.7	0.09	6.20	0.01	0.01	0.77	<0.005
									87.7	88.0	0.01	0.79	<0.003	0.003	0.08	<0.005
									88.0	88.4	0.05	2.25	<0.003	0.004	0.38	<0.005
									88.4	89.0	0.02	0.53	0.01	0.003	0.02	<0.005

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 24

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
85.2 continued.....	89.0	breccia interstices filled with thin white quartz and quartz-carbonate veins accompanied by common sulfides; irregular contact with following unit; 86.5-87.2 m: mixed zone of dark gray medium grained gabbro and blocks light brown sediment; abundant random thin veinlets and masses white carbonate and quartz-carbonate, generally associated with sulfides (pyrite and pyrrhotite); uncertain contact with unit below, but possibly parallel to bedding; 87.2-87.7 m: brecciated zone dominated by white quartz and quartz-carbonate with abundant sulfides (pyrite, pyrrhotite); breccia clasts dominantly chloritised gabbro (?); 87.8-88.0 m: light buff brown fine grained altered sediments with minor interbedded grit bands; thin carbonate and quartz-carbonate veining and sulfides common; BCA 40-45°; 88.0-88.4 m: gabbro-quartz-carbonate veining zone, similar to 87.2-87.8 m., but with less sulfides; 88.4-89.0 m: altered light brown fine grained sediments with greenish mafic component (clasts); abundant random thin quartz-carbonate and carbonate veins carrying common sulfides (pyrite, pyrrhotite); BCA 45-50°; gradational with unit below;														
89.0	98.7	INTERBEDDED SILTSTONE-GRIT, hematitic in part: fine grained siltstone, interbedded with medium grained grits; both of these vary in color from dark gray to hematitic; BCA 45° near top of unit increasing to 60° near base of unit; only minor sulfides; gradational contact with unit below;	89.0	98.7	100											
98.7	120.8	INTERBEDDED SILTSTONE-SHALE: light-dark gray siltstone interbedded with.....	98.7	120.8	100											

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 24

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
98.7	120.8	dark gray-black shale; minor narrow grit beds; BCA generally 60°, but as low as 45° in places; syngenetic pyrite common to abundant in black shale as thin seams and bands of fine grained and euhedral pyrite; also common in coarser sediments but generally as coarse euhedral grains up to 2 mm; ground conditions excellent; grades into.....														
120.8	134.7	HEMATITIC SILTSTONE and GRIT, grading into GRAY SILTSTONE-GRIT: 120.8-129.5 m: hematitic siltstone and grit carrying minor sulfides; BCA uniform 65°; ground conditions excellent; grades into..... 129.5-134.7 m: gray siltstone interbedded with gray grit; minor syngenetic pyrite in narrow seams; BCA 60-70°; sharp contact with gabbro below is parallel to bedding;	120.8	134.7	100				132.7	133.7	0.01	1.29	<0.003	0.01	0.01	<0.003
									133.7	134.7	0.01	0.28	<0.003	<0.004	0.01	<0.003
134.7	148.3	GABBRO: dark gray medium-coarse grained gabbro; commonly cut by random white carbonate veins varying from hairline to 20 mm; HW and FW contacts sharp and conformable with sediments above and below 55° CA; only trace sulfides as isolated grains, occasionally 1-2% but generally < 1% sulfides; ground conditions excellent;	134.7	148.3	100				134.7	135.7	0.03	0.25	0.01	0.006	0.02	<0.005
									135.7	136.7	0.03	0.25	0.01	0.006	0.01	<0.005
									136.7	137.7	0.07	0.10	0.01	0.007	0.01	<0.005
									137.7	139.3	0.05	0.07	0.01	0.008	0.01	<0.005
									139.3	140.8	0.02	0.10	0.01	0.006	0.01	<0.005
									140.8	142.3	0.03	0.06	0.01	0.006	0.01	<0.005
									142.3	143.8	0.04	0.08	0.01	0.007	0.01	<0.005
									143.8	145.3	0.05	0.10	0.01	0.008	0.01	<0.005
									145.3	146.8	0.03	0.14	0.01	0.007	0.01	<0.005
148.3	166.5	INTERBEDDED SILTSTONE and GRIT: dark gray siltstone and grit interbedded with hematitic siltstone and grit; BCA 60°; intermingling of hematitic and gray units suggestive of soft sediment deformation and slumping; only rare specs syngenetic sulfides observed; ground conditions excellent;	148.3	166.5	100				146.8	148.3	0.03	0.06	0.01	0.007	0.01	<0.005
		END OF HOLE														

COMPANY: Allegiance Mining
PROJECT: Melba Flats
HOLE NUMBER: MF 25

Commenced:	18 Apr 2002
Completed:	23 Apr 2002
Logged By:	L.A.Newnham
Drilled By:	Almac

Purpose of Hole
designed to test the main Nickel Reward gabbro east of MF11 and down dip of MF18, close to the intersection of the main gabbro and North Fault;

Comments on Completion
the narrow gabbro intersected at 39.7-42.0 m. is interpreted as the main gabbro; apart from 0.7 m. of 1.7% Ni, the gabbro was only weakly mineralised;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
GDA	5365963.5	366435.9	2200.6	-70	334

Length (m)
100.5

Hole Size	
To (m)	Size
100.5	HQ

Significant Core Loss Zones		
From	To	%Rec.

Hole Condition on Completion
all down hole equipment removed from hole;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	% Ni	% Cu	% S				
39.7	40.4	100	calcareous gabbro	0.7	1.70	1.25	5.20				

DOWN HOLE SURVEY DATA

COMPANY: Allegiance Mining NL

PROJECT: Melba Flats

HOLE NUMBER: MF 25

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COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 25

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
0.0	2.6	HW tricone casing, no core	0.0	2.6	0											
2.6	5.8	WEATHERED SEDIMENTS: interbedded light gray siltstone and dark gray sandstone, strongly weathered and decomposed; Clay and sand to approx. 4.3 m. bedding difficult to determine, but possibly very low to CA; some core loss;	2.6	3.3	10											
			3.3	4.3	80											
			4.3	5.2	100											
			5.2	6.0	85											
5.8	8.3	GABBRO: dark gray medium grained gabbro; foliation/schistosity almost parallel to core axis; thus it may be a very narrow dike; minor-common disseminated sulfides as individual grains, aggregates and also thin seams; Both FW and HW contacts very low 15-20° CA; core very broken in places along schistosity planes;	6.0	8.3	100				5.8	7.0	0.08	0.33	0.03	0.009	0.07	<0.005
									7.0	8.3	0.11	0.92	0.10	0.01	0.05	<0.005
8.3	10.0	SEDIMENT BAND: interbedded siltstone and grit; BCA probably 20-30° CA; core very broken; contact with gabbro below 20° CA;	8.3	10.0	100				8.3	10.0	0.02	0.03	0.01	0.005	0.02	<0.005
10.0	20.0	GABBRO: coarse-medium grained gabbro; HW contact 20° CA; FW contact 30° CA; disseminated sulfide throughout, varying from minor-common; FW 200 mm. siliceous and finer grained with common-abundant sulfides; core very broken in places; minor leaching; slight schistose/alterd appearance (near a fault ?)	10.0	10.2	100				10.0	11.0	0.06	0.28	0.03	0.009	0.05	<0.005
			10.2	12.0	85				11.0	12.0	0.04	0.26	0.01	0.008	0.05	<0.005
			12.0	14.5	100				12.0	13.0	0.04	0.31	0.01	0.01	0.03	<0.005
			14.5	15.5	95				13.0	14.0	0.04	0.32	<0.01	0.01	0.03	<0.005
			15.5	19.5	100				14.0	15.0	0.04	0.16	<0.01	0.01	0.02	<0.005
			19.5	20.8	80				15.0	16.0	0.04	0.34	<0.01	0.01	0.02	<0.005
									16.0	17.0	0.03	0.28	<0.01	0.008	0.01	<0.005
									17.0	18.0	0.09	0.36	0.06	0.009	0.02	<0.005
									18.0	19.0	0.02	0.21	0.01	0.007	0.02	<0.005
20.0	23.8	SILTSTONE: light gray siltstone with a minor grit component; BCA uniform 30° CA;	20.8	21.7	90				19.0	20.0	0.02	0.52	0.01	0.009	0.02	<0.005
			21.7	23.8	100				20.0	20.8	0.02	2.80	0.02	0.01	0.01	<0.005

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 25

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
20.0 continued.....	23.8	several conformable seams coarse sulfides, largely euhedral pyrite; core very broken;														
23.8	24.8	QUARTZ-CARBONATE VEINING - fault? zone of disrupted sediments cut by abundant quartz-carbonate and quartz veins at 60-70° CA; possible fault zone;	23.8	24.8	100											
24.8	39.7	SILTSTONE - GRITS - SHALES: interbedded fine grained gray siltstone, medium-coarse grained grit and minor dark gray-black shale beds; BCA varies 30-50°, but generally 35-40°; random carbonate and quartz-carbonate veining throughout; minor sulfides throughout as disseminated grains (syngenetic pyrite?) and small aggregates and veinlets; core moderately broken in places but overall improving down hole; contact with gabbro below 20° CA;	24.8	39.7	100											
39.7	42.0	GABBRO: dark gray gabbro, coarse grained in upper section but becoming med- fine grained towards base; gabbro is strongly calcareous; orientation of FW contact (lower contact) uncertain- possibly irregular and steep to CA; trace-minor fine grained disseminated sulfides; ground conditions generally good;	39.7	42.0	100				39.7	40.4	1.70	5.20	1.25	0.038	0.06	<0.005
									40.4	41.4	0.07	0.24	0.04	0.007	0.02	<0.005
									41.4	42.0	0.04	0.15	0.02	0.006	0.02	<0.005
42.0	43.3	CALCAREOUS SEDIMENTS (?), brecciated and sulfidic: fine grained silicified sediments (?) or possibly a fine grained gabbro; brecciated with matrix of white quartz and quartz-carbonate; sulfides common in matrix and disseminated in clasts; sharp contact with grits below- 40° CA;	42.0	43.3	100				42.0	43.3	0.01	0.21	0.01	0.004	0.01	<0.005

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 25

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COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 25

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
73.0	82.0	SILTSTONE, minor shale: light gray, fine grained siltstone with minor dark gray shale bands; BCA 40° near top increasing to 45-50° near base; minor seams and disseminated syngenetic pyrite in places; ground conditions very good;	73.0	82.0	100											
82.0	88.2	SHALES, minor siltstone: slumped and distorted dark gray-black shales interbedded with dark gray fine-medium grained siltstone; soft sediment deformation and brecciation common; random white carbonate and quartz-carbonate veining common, often forming large masses infilling shale breccia zones; syngenetic pyrite common as streaks and segregations in black shale and associated with carbonate veining; ground conditions good; gradational with.....	82.0	88.2	100				82.7	83.7	0.009	2.50	<0.003	0.005	0.50	<0.005
									83.7	84.7	0.008	1.42	<0.005	0.005	0.06	<0.005
									84.7	85.7	0.008	1.42	<0.005	0.005	0.15	<0.005
88.2	100.5	SILTSTONE, minor shale and sedimentary breccias: light gray, fine-medium grained siltstone; interbedded with minor dark gray shale; 88.2-93.2 m: light gray siltstone; BCA 40°; good ground conditions; 93.2-94.8 m: upper half composed of brecciated siltstone and lower half by brecciated shales; white and cream quartz and carbonate infilling breccia interstices; sulfides common-abundant, associated with quartz-carbonate as large grains and aggregates; mainly pyrite; 94.8-99.0 m: gray fine-coarse siltstone and minor grits; soft sediment slumping common; random quartz and quartz-carbonate	88.2	100.5	100											
									93.2	94.8	0.007	0.91	<0.003	0.003	0.11	<0.005

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 25

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COMPANY: Allegiance Mining
PROJECT: Melba Flats
HOLE NUMBER: MF 26

Commenced:	29 April 2002
Completed:	08 May 2002
Logged By:	L.A.Newnham
Drilled By:	Almac

Purpose of Hole
To test the southern strike extension of the Nickel Reward gabbro dikes down dip of MF 20 and Mf 21

Comments on Completion
several gabbro dikes were intersected but they contained only trace nickel; this hole supports the interpretation that the gabbro dikes strike south-east to the south of the Nickel Reward workings;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
GDA	5365891.7	366404.5	2208.3	-80	304

Length (m)
199.5

Hole Size	
To (m)	Size
41.5	HQ
199.5	NQ

Significant Core Loss Zones		
From	To	%Rec.

Hole Condition on Completion
all down hole equipment removed from hole;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	% Ni	% Cu	% S				
			no significant assays								

DOWN HOLE SURVEY DATA

COMPANY: Allegiance Mining NL
PROJECT: Melba Flats
HOLE NUMBER: MF 26

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COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 26

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
0.0	2.2	TRICONE: no core;	0.0	2.2	0											
2.2	33.0	SANDSTONE-GRITS-SHALE: interbedded light gray grits and sandstone with minor interbeds of siltstone and black shale; interval is strongly weathered and decomposed; BCA at 21 m. 45°; 23 m. 50°; minor grains of pyrite in the sandstones and grits; seams of fine grained syngenetic pyrite in black shales, especially below 21 m; sandstone bed at 24 m. cut by a set of fine (<1mm) veins infilled with sulfide; some core losses;	2.2	3.1	90											
			3.1	5.7	90											
			5.7	7.2	80											
			7.2	9.0	40											
			9.0	9.9	20											
			9.9	10.9	50											
			10.9	12.0	90											
			12.0	13.5	70											
			13.5	15.0	80											
			15.0	16.0	90											
			16.0	17.5	65											
			17.5	19.6	100											
			19.6	20.7	90											
33.0	35.3	GABBRO: 33.0-34.2 m: dark gray coarse grained gabbro; HW contact very broken but probably conformable with overlying shale band, 45° CA; minor fine grained disseminated sulfides; core very broken; 34.2-35.3 m: lighter gray, finer grained mafic rock carrying sedimentary laths or clasts at 34.5 m; sharp FW contact 40° CA; minor fine grained disseminated sulfides and coarser aggregates of euhedral pyrite; core not as broken as previous unit but still quite broken;	20.7	21.6	80											
			21.6	22.6	95				33.0	34.2	0.05	0.12	0.02	0.01	0.04	<0.005
			22.6	24.0	60				34.2	35.3	0.01	0.33	0.01	0.005	0.02	<0.005
			24.0	25.8	80											
			25.8	27.0	35											
			27.0	28.0	100											
			28.0	28.8	90											
			28.8	35.3	100											
35.3	43.1	HEMATITIC SILTSTONE-GRITS: fine-medium grained reddish brown siltstone and grits with minor fine grained chloritic sections; BCA 45°;minor white carbonate and quartz-carbonate veining; at 42 m., 20 mm band quartz-carbonate-galena in altered fine grained mafic rock; ground conditions good;	35.3	43.1	100											

COMPANY: Allegiance Mining NL
PROJECT: Melba
HOLE NUMBER: MF 26

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	NI %	S %	Cu %	Co %	Zn %	As %
43.1	46.4	MIXED ZONE OF SEDIMENTS and ALTERED MAFIC ROCKS: interbedded hematitic siltstone and grits, and light gray grits, with narrow irregular sections of dark gray, medium grained mafic rocks; BCA in sediments 45°; interval cut by numerous quartz-carbonate-chlorite veins; sulfides minor-common throughout, generally as disseminated grains in mafic sections, and commonly as aggregates and clusters in quartz-carbonate-chlorite veins; some leaching of veins;	43.1	46.4	100				43.1	44.2	0.01	0.24	0.01	0.005	0.02	<0.05
									44.2	45.2	0.01	<0.02	<0.01	0.005	0.02	<0.005
									45.2	46.4	0.01	0.39	0.01	0.005	0.02	<0.005
46.4	64.2	HEMATITIC SILTSTONE and GRITS: interbedded hematitic (reddish-brown) siltstone and grits; BCA uniform 60°, decreasing to 45° near base; sparse to common irregular white quartz-carbonate veins; trace sulfides associated with quartz-carbonate veining; ground conditions excellent;	46.4	64.2	100											
64.2	73.3	HEMATITIC SEDIMENTS, minor gabbro, extensive brecciation and veining: interval dominated by hematitic siltstone and sandstone; several narrow gabbro "sills"; siltstone often brecciated with interstitial chlorite, carbonate and quartz; 64.2-66.1 m: hematitic siltstone with minor quartz-carbonate-chlorite veining and associated trace disseminated pyrite; BCA 50°; 66.1-66.5 m: medium grained dark gray gabbro sill; trace sulfides (? pyrite); 66.5-71.5 m: hematitic siltstone and grits, minor "blebs" gabbro/mafic rock; quartz-carbonate-chlorite common as veins and masses infilling interstices in brecciated zones; 71.5-71.8 m: medium grained dark gray gabbro; FW 30° CA;	64.2	73.3	100				64.2	65.2	0.01	<0.02	0.03	0.005	0.03	<0.005
									65.2	66.1	0.01	<0.02	0.01	0.005	0.02	<0.005
									66.1	66.5	0.02	<0.02	0.02	0.005	0.03	<0.005
									66.5	67.5	0.01	0.10	0.01	0.005	0.02	<0.005
									67.5	68.5	0.01	0.06	0.03	0.005	0.02	<0.005
									68.5	69.5	0.01	<0.02	<0.01	0.005	0.02	<0.005
									69.5	70.5	0.01	<0.02	<0.01	0.005	0.02	<0.005
									70.5	71.5	0.02	0.02	<0.01	0.005	0.02	<0.005
									71.5	71.8	0.01	0.10	0.01	0.007	0.03	<0.005
									71.8	73.3	0.01	0.09	<0.01	0.005	0.02	<0.005

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
64.2 continued.....	73.3	71.8-73.3 m: greenish-brown brecciated sediments with numerous microfractures infilled with chlorite, ocassionally carrying sulfide; fine quartz-carbonate veining common;														
73.3	81.5	GABBRO: medium-coarse grained, dark gray gabbro; HW contact sharp 45° CA; FW contact sharp 30° CA; difficult to determine orientation to bedding; random white carbonate veining common; gabbro is highly calcareous, suggestive of pervasive carbonate alteration; trace-minor disseminated sulfide with narrow zones of 1-% sulfides; ground conditions excellent;	73.3	81.5	100				73.3	74.5	0.03	0.10	0.02	0.007	0.02	<0.005
									74.5	75.5	0.08	0.22	0.02	0.01	0.02	<0.005
									75.5	76.5	0.04	0.15	0.01	0.008	0.02	<0.005
									76.5	77.5	0.02	0.10	0.01	0.006	0.01	<0.005
									77.5	78.5	0.01	0.10	0.01	0.006	0.02	<0.005
									78.5	79.5	0.01	0.11	0.01	0.006	0.02	<0.005
									79.5	80.5	0.01	0.11	0.01	0.006	0.02	<0.005
									80.5	81.5	0.01	0.11	0.01	0.005	0.02	<0.005
81.5	99.1	HEMATITIC SEDIMENTS: reddish-brown hematitic siltstone and grits with several bleached light pinkish zones; extensively fractured with interstices filled with quartz-carbonate-chlorite material; white quartz-carbonate veining common throughout; quartz-carbonate-chlorite alteration often accompanied by significant sulfides; 81.5-86.7 m: interbedded hematitic siltstones and grits; BCA 50°; quartz-carbonate as fine veinlets and infilling fine fractures; 86.7-89.5 m: sediments bleached, microfractured and chloritised; several brecciated zones with abundant quartz-carbonate-chlorite often accompanied by common sulfides (eg) 88.2 m; 89.5-99.1 m: hematitic sediments as for 81.5 m.... white quartz-carbonate veining abundant in places; BCA 45-55°;	81.5	99.1	100				81.5	82.5	<0.01	0.04	<0.01	0.005	0.02	<0.005
									86.7	87.5	0.01	2.60	0.03	0.006	0.02	<0.005
									87.5	88.5	<0.01	1.16	0.03	0.003	0.02	<0.005
									88.5	89.5	0.02	4.75	0.03	0.005	0.02	<0.005

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
99.1	100.4	GABBRO: medium-coarse grained dark gray-green gabbro; HW contact sharp but irregular; FW contact sharp 35° CA; only trace disseminated sulfides; minor quartz-carbonate and carbonate veins;	99.1	100.4	100				99.1	100.4	0.01	0.08	<0.01	0.007	0.02	<0.005
100.4	103.0	HEMATITIC SEDIMENTS: fine-medium grained reddish siltstone, bleached in parts and cut by extensive veins and masses of quartz-carbonate and carbonate; 101.6-101.8 m: band of brecciated pink sediments healed with quartz-carbonate carrying significant pyrite-galena-sphalerite; ground conditions excellent;	100.4	103.0	100											
103.0	106.4	GABBRO-central section brecciated, altered and mineralised: HW contact sharp but irregular; 103.0-104.4 m: dark gray-green medium grained gabbro extensively cut bu quartz-carbonate-talc veins, increasingly so towards base of interval; trace disseminated sulfides; 104.4-105.4 m: strongly brecciated interval with clasts of pink sediment and gabbro set in a matrix of white quartz-carbonate-talc and carrying 5-10% sulfides as coarse aggregates and massive seams and fine veinlets surrounding and cutting clasts; 105.4-106.4 m: gabbro as for 103.0 m.....; FW contact sharp but irregular;	103.0	106.4	100				103.0	104.4	<0.01	0.06	<0.01	0.005	0.03	<0.005
									104.4	105.4	<0.01	7.25	<0.01	0.005	0.31	<0.005
									105.4	106.4	0.01	0.18	0.01	0.007	0.04	<0.005
106.4	114.6	PINK GRITS and SILTSTONE: light pink sedimentary unit dominated by grits and minor interbedded siltstone; unit has been extensively fractured with fractures infilled by several generations of quartz and quartz-chlorite veins ranging from hairline to 5 mm; this late stage fracture infilling material is accompanied by abundant sulfide	106.4	114.6	100				106.4	107.6	0.01	0.72	<0.01	0.005	0.02	<0.005
									107.6	108.6	0.01	0.51	<0.01	0.005	0.03	<0.005
									108.6	109.6	0.01	0.57	<0.01	0.005	0.07	<0.005
									109.6	110.6	0.01	0.97	<0.01	0.005	0.1	<0.005
									110.6	111.6	0.01	0.95	<0.01	0.005	0.06	<0.005
									111.6	112.6	0.01	0.62	<0.01	0.005	0.05	<0.005
									112.6	113.6	0.01	1.64	<0.01	0.005	0.95	<0.005
									113.6	114.6	0.01	2.15	<0.01	0.005	1.51	<0.005

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
106.4	114.6	and in occasional thicker veins by altered gabbroic material; overall sulfides 1-2% but variable; BCA 40°; ground conditions good; gradational with unit below;														
114.6	121.5	HEMATITIC SEDIMENTS with quartz-carbonate veining: reddish brown hematitic siltstone and grits, minor brecciation in places; cut by extensive network of 1-5 mm. white quartz-carbonate veins; only trace sulfides observed, associated with veins; BCA 40°; ground conditions good; gradational with unit below;	114.6	121.5	100											
121.5	128.7	MAFIC (?) SEDIMENTS: sequence of dark gray-green grits and coarse siltstone, with variable quartz-carbonate alteration; 121.5-123.5 m: intensely altered and bleached grits containing zones of massive white quartz-carbonate; at 122.0 m., 20 mm band of bright green mineralisation and another similar band at 122.7 m; both bands carry abundant disseminated sulfide; banding in this altered zone 30° CA; minor-common sulfides associated with quartz-carbonate masses; 123.5-128.7 m: grades into less altered mafic grits and siltstone;	121.5	128.7	100				121.9	123.0	<0.01	0.62	<0.01	0.002	0.03	<0.005
128.7	132.7	SEDIMENTS, strongly altered: dark-light gray medium-coarse grained sediments; pervasive quartz-carbonate-chlorite alteration and late stage brecciation accompanied by sulfide mineralisation; sulfides as clots, disseminated and infilling quartz-carbonate-chlorite microfractures; BCA 45; ground conditions good; grades into	128.7	132.7	100				128.7	129.7	0.01	0.71	0.01	0.008	0.02	<0.005
									129.7	130.7	<0.01	0.28	<0.01	0.005	0.01	<0.005
									130.7	131.7	<0.01	0.72	0.06	0.004	0.01	<0.005
									131.7	132.7	0.01	0.24	0.01	0.004	0.01	<0.005

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
132.7	140.5	HEMATITIC SILTSTONE and GRIT: interbedded reddish brown siltstone and grits; minor random thin quartz-carbonate veining; BCA 40-45° CA; gound conditions excellent; grades into.....	132.7	140.5	100											
140.5	150.9	SILTSTONE and GRITS: light and dark gray interbedded siltstone and grits; minor random quartz-carbonate veining; similar to unit above but not hematitic; trace disseminated sulfide associated with quartz-carbonate veining; BCA 50-55°;	140.5	150.9	100											
150.9	159.8	GABBRO: medium-coarse grained dark gray-green gabbro; 500 mm zones on both HW and FW margins are finer grained; minor but pervasive carbonate alteration of gabbro; quartz-carbonate veining up to 10 mm common with quartz often greenish in color; only trace disseminated sulfides with ocassional blebs spots of pentlandite (?) associated with quartz-carbonate veining near FW; HW contact sharp 50° CA; FW contact sharp 45° CA; ground conditions excellent;	150.9	159.8	100				150.9	151.9	0.03	0.08	<0.01	0.006	0.02	<0.005
									152.9	153.9	0.05	0.11	0.01	0.007	0.01	<0.005
									154.9	155.9	0.03	0.12	0.01	0.006	0.01	<0.005
									156.9	157.9	0.03	0.16	0.01	0.006	0.01	<0.005
									158.9	159.8	0.03	0.07	0.01	0.006	0.02	<0.005
159.8	179.8	HEMATITIC SEDIMENTS: reddish brown hematitic siltstones and grits interbedded with light -dark gray siltstones and grits, possibly mafic in part; minor thin quartz-carbonate veins throughout; several minor brecciated zones (eg) 173.1-173.5 m; BCA 60°; trace disseminated sulfides, generally associated with quartz-carbonate veining; ground conditions excellent; grades into.....	159.8	179.8	100											

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Ni %	S %	Cu %	Co %	Zn %	As %
179.8	180.9	SEDIMENTS, brecciated and altered: pink, coarse grained siltstone-grits, strongly altered and fractured with abundant quartz-carbonate infilling fractures and developed as large irregular masses; sulfides accompany quartz-carbonate, particularly in the fine veinlets;	179.8	180.9	100				179.8	180.9	<0.01	0.66	<0.01	0.004	0.12	<0.005
180.9	182.8	ALTERED GABBRO (?) : intensely altered and brecciated gabbro (?); pervasive carbonate alteration with associated minor talc; minor sulfides in breccia groundmass and accompanying quartz-carbonate alteration as small clots and grains; sharp contact with unit below 50° CA;	180.9	182.8	100				180.9	181.9	0.01	0.25	0.01	0.005	0.05	<0.005
									181.9	182.8	0.01	0.29	0.01	0.005	0.04	<0.005
182.8	188.0	GRITS and SILTSTONE: medium-dark gray siltstone interbedded with dark gray grits; BCA 60-70°; thin quartz-carbonate veins common; minor disseminated sulfides; below 186.5 m., sediments become slumped and deformed with gradual increase in black shale component; grades into.....	182.8	188.0	100											
188.0	199.5	SHALE and SILTSTONE: interbedded gark gray-black shales and lighter gray coarse grained siltstone;shale component increasing down hole; BCA irregular due to soft sediment slumping;abundant quartz-carbonate veining throughout: several generations of veins, forming large irregular masses in places; pyrite common-abundant; mainly as syngenetic seams and disseminations but also associated with late stage alteration and veining as clots and thin seams;194.0 m: 50 mm vein of semi-massive sulfide 45° CA; ground conditions good except for broken sections in graphitic shales; END of HOLE	188.0	199.5	100				190.0	191.5	<0.01	1.07	<0.01	0.003	0.01	<0.005
									191.5	193.0	<0.01	1.95	0.01	0.002	<0.01	<0.005
									193.0	194.0	<0.01	2.25	<0.01	0.003	0.03	<0.005
									194.0	194.05	0.01	16.90	<0.01	0.004	0.03	<0.005
									197.0	198.0	<0.01	1.47	<0.01	0.005	0.07	<0.005