COMPANY: Allegiance Mining NL
PROJECT: Melba Flats
HOLE NUMBER: MF 10

Commenced:	26 October 98
Completed:	30 October 98
Logged By:	L A Newnham
Drilled By:	Almac Drilling

Purpose of Hole
.To test both extensions of North Cuni mineralisation and previously untested geochemical and magnetic anomaly west of North Cuni;

Comments on Completion
.a series of gabbroic dykes within a sequence of sandstones, shales and siltstones was intersected as anticipated; however, virtually no mineralisation was intersected; a thick gabbro dyke or sill is interpreted as the source of the western magnetic and geochemical anomaly;

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	5,367,600	366,445	210	-50	265

Length (m)
249.5

Hole Size	
To (m)	**Size**
67	HQ
249.5	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**
Nil		

Hole Condition on Completion
all steel casing was removed; unslotted PVC casing placed in full length of hole;

Summary of Results:

Depth		Recovery	Description	Assays							
From	To	%		Length	Cu	Ni	Au	Pt	Pd		
			No significant mineralisation or assays								

566018

DOWN HOLE SURVEY DATA

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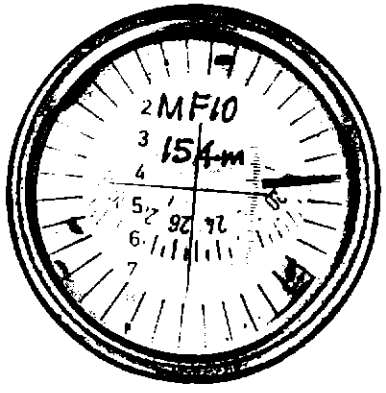
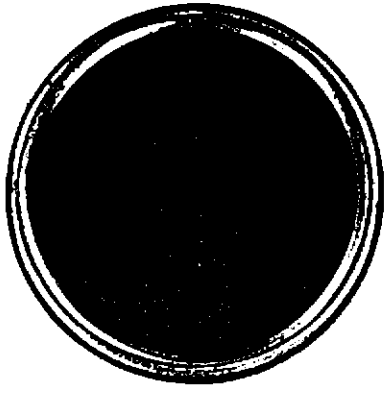
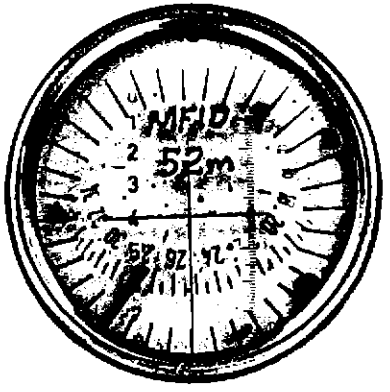
Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	-50	265					210.00		0.00		5,367,600.0		366,445.0
0	-50	265	0	26	26	19.92	190.08	16.71	16.71	-1.46	5,367,598.5	-16.65	366,428.4
52	-50	265	26	77.5	51.5	39.45	150.63	33.10	49.82	-2.89	5,367,595.7	-32.98	366,395.4
103	-48.5	268	77.5	128.5	51	38.20	112.43	33.79	83.61	-1.18	5,367,594.5	-33.77	366,361.6
154	-40	267	128.5	178	49.5	31.82	80.62	37.92	121.53	-1.98	5,367,592.5	-37.87	366,323.7
202	-42.5	267	178	225.75	47.75	32.26	48.36	35.20	156.73	-1.84	5,367,590.7	-35.16	366,288.6
249.5	-42	267	225.75	249.5	23.75	15.89	32.47	17.65	174.38	-0.92	5,367,589.7	-17.63	366,271.0
249.5													

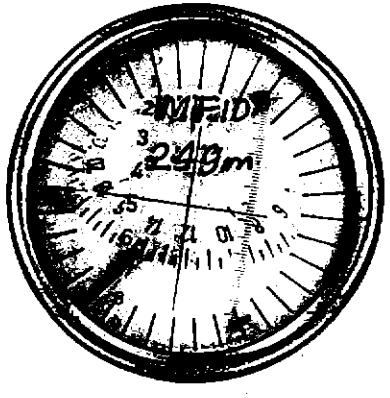




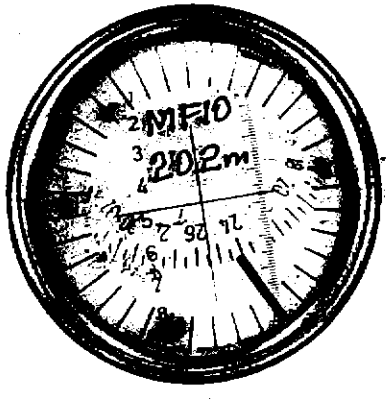
DIP - 48½

BRG: 255 Mag.





(Taken in rods)



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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
0.0	2.8	No core;	0.0	2.8	0											
2.8	44.5	**INTERBEDDED SANDSTONES, SILTSTONES AND SHALES:** Interbedded sandstones, siltstones and shales, strongly weathered to 13 m.; finer grained units frequently pyritic; **2.8-13.3 m:** interbedded light gray sandstone, maroon shales and fine grained siltstone; widely spaced quartz veins < 20 mm.; fine grained , light gray lesser weathered units, 2-3% pyrite as fine euhedral disseminated grains; soft sediment slumping features in places; core generally broken with significant core losses in some intervals; BCA 70; **13.3-33.8 m:** interbedded light gray shales and siltstones, light gray medium grained sandstones, felspathic in part; thin <2mm. leached quartz veins common in sandstone; soft sediment slumping and disturbed bedding features common; BCA 70-80; pervasive pyrite common in finer grained units as either thin bedding parallel semi-massive and disseminated euhedral units, or 2-3% disseminated euhedral grains; also small augens of semi massive coarse euhedral pyrite; lesser pyrite 2-3% disseminated in medium grained sandstone; pyrite is essentially stratabound and appears syngenetic; core moderately broken with finer grained units reduced to shaley rubble in places and coarser sandstone fractured along numerous joint sets and bedding planes; **33.8-41.5 m:** interbedded maroon (hematitic) fine grained sandstone and light gray fine grained siltstone and shale; sandstone are gritty-arkosic in part with fine	2.8	4.5	100												
			4.5	5.3	60											
			5.3	6.7	45											
			6.7	7.5	100											
			7.5	8.6	80											
			8.6	9.6	90											
			9.6	10.9	70											
			10.9	13.1	100											
			13.1	14.2	70											
			14.2	16.5	100											
			16.5	17.3	75											
			17.3	25.4	100											
			25.4	26.8	60											
			26.8	44.5	100											

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From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
		33.8-41.5 m .... cont: shale and siltstone fragments common; BCA 70-80; siltstone contains 2-3% pyrite, commonly as thin bedding parallel veins of coarse euhedral striated grains with crystals up to 1 mm; core strongly jointed and fractured in part, with several joint directions 30 CA and 60 CA; **41.5-44.5 m:** interbedded dark gray medium grained sandstone and light gray fine grained shale-siltstone; cut by close spaced 2-3 mm white quartz veins typically 30 CA; BCA 60-70;															
44.5	45.8	**GABBRO:** dark green, white speckled gabbro with very broken and disrupted margins; 1-2% pervasive blebs pyrite;	44.5	45.8	100											
45.8	57.0	**INTERBEDDED SHALES, SILTSTONE and SANDSTONE:** alternating thin beds dark gray shale and fine grained light gray siltstone, interbedded with ocassional thicker beds light gray, fine grained sandstone; shale-siltstone interbeds typically 10-20 mm. wide, producing characteristic stripey appearance; minor thin quartz veins; at 50.4 m., 200 mm. soft sediment slump/breccia zone; thin bedding parallel veins pyrite common in shales (2-3% of shales); minor faulting 30-50 CA, well displayed in banded sediments; represents minor adjustment along joints and bedding planes; core alternatesbetween competent ground and strongly broken units;	45.8	57.0	100											

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
57.0	69.0	**GABBRO:** dark gray, white speckeled medium grained gabbro with numerous white carbonate veins (calcite?) filling micro fractures; significant calcareous component in gabbre itself; calcite in places 5-10% of core; 67.1-67.4 m: 300 mm. brecciated shale, either a thin bed with gabbro either side, or large include block within gabbro; calcite veining abundant below 67.4 m; sharp fine grained margin at 69 m., 60 CA;	57.0	69.0	100				58.0	59.0	0.01	0.03	<0.01	<0.05	<0.01	<5
									60.0	61.0	0.01	<0.01	<0.01	<0.05	<0.01	<5
									63.0	64.0	0.02	0.03	<0.01	<0.05	<0.01	<5
									66.0	67.0	0.01	0.03	<0.01	<0.05	<0.01	<5
									67.5	68.5	0.02	0.03	<0.01	<0.05	<0.01	<5
69.0	88.2	**INTERBEDDED SHALE, SILTSTONE and SANDSTONE:** interbedded dark gray siltstone, buff colored shale and dark gray sandstone; unit strongly brecciated andquartz-carbonateveioned adjacent to overlying gabbro; quartz-carbonate as abundant anastomosing veins and matrix to brecciatedshales to 70 m., then veining decreasing down hole; sandstone often calcareous with awhite flecked appearance; core moderately competent but some slumped and broken sections; BCA 70-80;	69.0	88.2	100												
88.2	92.2	**GABBRO:** coarse grained dark gray gabbro, cut by numerous fine <1 mm. white carbonate veins; HW contact sharp 40 CA, with 100 mm. broken graphitic shale on contact; FW contact more diffuse, accompanied by 20-30 mm. calcite-quartz-sphalerite-pyrite veining within the gabbro, close to contact; fragments of gabbro within graphitic slickensided black shales on footwall; minor sulfides in gabbro as discrete grains of pyrite and ocassional blebs chalcopyrite and pyrite; core moderately competent with joint sets 30 and 60 CA;	88.2	92.2	100				91.2	92.2	0.03	0.03	<0.01	<0.05	<0.01	<5

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
92.2	140.0	**INTERBEDDED SHALE, SILTSTONE and SANDSTONE-GRITS:** **92.2-96.8 m:** well bedded light gray mudstone-shale with minor sandstone; BCA 45; numerous < 1mm. carbonate veins; 2-3% disseminated pyrite in sediments and within quartz-carbonate veins; several 10-30 mm. quartz carbonate veins contain coarse light brown sphalerite and galena; **96.8-106 m:** interbedded black graphitic shales and medium gray fine grained sandstone; soft sediment slumping and microfracturing common; fragments of shale common in sandstone; BCA 40-50 but variable; abundant anastomosing quartz- carbonate and carbonate veining, generally 1-5 mm.; several 10-20 mm veins in shaley units carry substantial coarse honey colored sphalerite, and galena; disseminated pyrite 2-3% in both quartz-carbonate veins and disseminated in sandstone, and in thin bedding conformable veins in shale; core reasonably competent but tends to be more broken where veining most intense; **106.0-117.3 m:** gradational with unit above; interbedded dark gray-black shales, graphitic in part, and dark gray fine grained sandstones; slumping and soft sediment brecciation common; anastomosing thin (1-5 mm) quartz-carbonate and carbonate veining abundant for most of unit; coarse pyrite, sphalerite and galena common in these thin veins; disseminated fine grained pyrite common in thin seams parallel to bedding and disseminated in shales and sandstones; **117.3-130.4 m:** interbedded buff colored fine grained siltstone-mudstone and hematitic	92.2	140.0	100				107.0	108.0	0.01	0.01	<0.01	<0.05	<0.01	<5

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From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
		117.3-130.4 .....cont. fine grained sandstone and hematitic siltstone; ocassional dark gray-black slumped graphitic shale beds; BCA variable but generally 70-80; common 1-5 mm quartz-carbonate veins with pyrite-sphalerite-galena, but not as abundant as in unit above; several 10-20 mm. quartz-carbonate veins with coarse sphalerite-pyrite-galena; core generally competent except for broken shale beds; **130.4-140 m.:** interbedded medium gray, medium grained sandstone and minor buff colored mudstone; BCA 60-70; widely spaced 1-2 mm. carbonate veins with minor sulfides; 1-2% pervasive disseminated pyrite in sandstone; core generally competent with wide spaced jointing 30 CA; sharp contact with gabbro below at 40 CA;															
140.0	152.8	**GABBRO:** medium grained dark gray gabbro; abundant 1-40 mm. anastomosing carbonate and quartz-carbonate veins, typically containing 2-3% euhedral pyrite as grains and aggregates accompanied in places by light brown sphalerite and galena; 1-2% pervasive disseminated pyrite in gabbro; ground competent; sharp contact with sediments below, 60-70, but irregular;	140.0	152.8	100				140.0	141.0	0.01	0.02	<0.01	<0.05	<0.01	<5
									141.0	142.0	0.01	0.01	<0.01	<0.05	<0.01	<5
									143.0	144.0	0.02	0.01	<0.01	<0.05	<0.01	<5
									145.0	146.0	0.02	0.05	<0.01	<0.05	<0.01	<5
									147.0	148.0	0.02	0.03	<0.01	<0.05	<0.01	<5
152.8	233.4	**INTERBEDDED SHALE, SILTSTONE and SANDSTONE:** whole unit is strongly calcareous; **152.8-162.5 m:** light gray, medium grained siltstone interbedded with banded hematitic siltstone and light gray calcareous grit;	152.8	233.4	100				149.0	150.0	0.02	0.03	<0.01	<0.05	<0.01	<5
									152.0	153.0	0.01	0.01	<0.01	<0.05	<0.01	<5

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
		152.8-162.5 m. cont..... 1-5 mm. carbonate veining common; BCA 70, 1-3% disseminated pyrite pervasive in sediments and as coarser grains in quartz-carbonate and quartz-chlorite veinlets; core competent; gradational with unit below; **162.5-191.4 m:** hematitic calcareous grits, siltstone and fine grained sandstone, with minor interbeds of light gray siltstone and fine grained sandstone; soft sediment slumping and microfracturing common; BCA generally 70-80; fine (1-5 mm) carbonate and quartz-carbonate anastomosing veins common, with several 20-40 mm. quartz-carbonate veins; 1-3% pyrite as disseminated grains and thin bedding parallel seams; coarser grained and more abundant in thin carbonate veins; core generally very competent; **191.4-220.3 m:** interbedded light gray siltstones, mudstone, and fine grained sandstone, ocassional darker gray carbonaceous units; pervasively calcareous; BCA variable but generally 70-80; carbonate and quartz-carbonate veins common throughout, typically 1-10 mm. but ocassionally up to 40 mm.; chlorite selvedges on some veins and minor pyrite-sphalerite associated with some veins; 196.6 m., 200 mm quartz-carbonate open space vein filling; 191.4-202 m: pyrite common in places, disseminated as coarse euhedral grains in sediments or as clusters adjacent to veins (2-5%); **220.3-224 m:** well bedded hematitic grits and siltstone; BCA 70-80; widely spaced 1-5 mm. carbonate and quartz-carbonate veinlets; core competent;								193.5	194.5	0.02	<0.01	<0.01	<0.05	<0.01	<5
									194.5	195.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
									196.5	197.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
									197.5	198.5	0.01	<0.01	0.02	<0.05	<0.01	<5
									199.5	200.5	0.01	<0.01	0.01	<0.05	<0.01	<5
									201.5	202.5	<0.01	<0.01	<0.01	<0.05	<0.01	<5

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Cu	Ni	Au	Pt	Pd	Ag
		224.0-233.4 m. cont..... light to medium gray sandstone, grits and siltstone; generally calcareous, strongly so in places; anastomosing 1-10 mm. carbonate and quartz-carbonate veins; BCA 70-80, but contact with gabbro below 45 CA; trace disseminated pyrite in sediments and associated with carbonate veins;							232.5	233.5	0.02	<0.01	<0.01	<0.05	<0.01	<5
233.4	242.6	**GABBRO:** medium grained, medium gray gabbre; sharp HW contact 45 CA; FW contact 60-70 CA; 1-5 mm. carbonate and quartz-carbonate veins common, with several veins near FW 40-60 mm.; 1-2% pyrite disseminated and in thin veinlets throughout gabbro; coarse light brown sphalerite and galena common in carbonate veins as large coarsely crystalline aggregates; core generally competent with a few broken zones;	233.4	242.6	100				233.5	235.5	0.02	0.03	<0.01	<0.05	<0.01	<5
									238.5	239.5	0.01	0.01	<0.01	<0.05	<0.01	<5
									240.5	241.5	0.01	0.03	<0.01	<0.05	<0.01	<5
									241.5	242.5	0.02	<0.01	<0.01	<0.05	<0.01	<5
									243.5	244.5	0.01	<0.01	<0.01	<0.05	<0.01	5
									244.5	245.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
									245.5	246.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
									246.5	247.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
									247.5	249.5	0.01	<0.01	<0.01	<0.05	<0.01	<5
242.6	249.5	**MIXED GABBRO and BRECCIATED SEDIMENTS:** fine grained light gray gabbroic rock with large blocks (inclusions) light gray siltstone; carbonate and quartz-carbonate veining up to 60 mm. wide with common coarse light brown sphalerite and galena, up to several % in some veins; **END OF HOLE**	242.6	249.5	100											
											Pb	Zn				
									240.5	241.5	0.08	0.31				
									241.5	242.5	0.08	0.30				
									243.5	244.5	0.30	0.99				