COMPANY	**ALLEGIANCE MINING NL**
PROJECT	**MELBA FLATS EL 43/1992**
HOLE NUMBER	**MF 66**

Commenced	
Completed	**16-Aug-06**
Logged by	**LAN**
Drilled by	**Almac**

Collar Details

Grid	**GDA**
Easting	366322.2
Northing	5367678.9
Elevation	2208.8
Dip	-49
Bearing	272
LENGTH (m)	**299.5**

Hole Size

To (m)	Size
78.8	**HQ**
299.5	**NQ**

Purpose of Hole

To test IP anomaly west of main gabbro zone

Comments on Completion

No gabbro dikes were intersected in this hole; minor base metals in quartz-carbonate veins, best being 108.4-108.8m: 0.4m 0.58% Pb, 3.77% Zn, 15g/t Ag

Major core losses:

From	To	% rec

Hole Completion Condition

All steel removed from hole

Assay Summary

Rock Type	From	To			

Down Hole Survey

Depth	Dip	Mag Brg	Grid Brg
0	-50		272
50	-51	258	270
100	-50	259	271
150	-49	257	269
200	-46.5	260	272
250	-45	258	270
299	-44	260	272

Notes on Surveys

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 66

Project	Hole ID	Log		Description	Recovery			Assays						
		From	To		From	To	%	From	To	% Ni	% Cu	% S	Ag	% Pb	% Zn
Melba	MF 66	0.0	16.9	**WEATHERED SEDIMENTS:**	0.0	3.0	50								
Melba	MF 66			severely weathered limonitic siltstone; clay to 3.0m;	3.0	5.5	100								
Melba	MF 66			7.5-14.3m: dark gray fine grained grits and interbedded shale	5.5	6.0	20								
Melba	MF 66			bands with ocassional gossanous zones which may be leached	6.0	7.0	70								
Melba	MF 66			quartz-carbonate-sulfide veins;	7.0	16.0	100								
Melba	MF 66			14.3-15.8 m: ?? Weathered gabbro?? Carrying coarse	16.0	16.9	80	14.3	15.8	<0.01	<0.01	0.27	3	<0.01	0.02
Melba	MF 66			disseminated sulfides;											
Melba	MF 66			weathering rapidly decreasing below 16.9m;											
Melba	MF 66			BCA generally 50˚;											
Melba	MF 66														
Melba	MF 66	16.9	25.2	**SILTSTONE - GRITS:**	16.9	23.5	100								
Melba	MF 66			light gray fine grained siltstone interbedded with light gray grits;	23.5	23.9	60								
Melba	MF 66			less weathered than unit above but still broken with minor l	23.9	25.2	100								
Melba	MF 66			leached and weathered intervals;											
Melba	MF 66			BCA 50-60˚;											
Melba	MF 66			18.0-18.5m: small breccia/fault zone;											
Melba	MF 66			gradational contact with unit below……											
Melba	MF 66														
Melba	MF 66	25.2	41.5	**HEMATITIC SILTSTONE and GRITS:**	25.2	30.1	100								
Melba	MF 66			reddish brown fine grained siltstone interbedded with reddish	30.1	31.0	80								
Melba	MF 66			medium grained grits and narrow beds of gray-green medium	31.0	31.6	60								
Melba	MF 66			grained grit; increase in greenish-gray sanstone-grit below 38m;	31.6	34.9	100								
Melba	MF 66			BCA 60-80˚, but generally 70˚;	34.9	36.0	60								
Melba	MF 66			core moderately broken and leached in places;	36.0	41.5	100								
Melba	MF 66			grades into unit below……											
Melba	MF 66														
Melba	MF 66	41.5	108.4	**INTERBEDDED SILTSTONE - SANDSTONE - GRIT:**	41.5	108.4	100								
Melba	MF 66			light and dark gray fine grained siltstone interbedded with dark											
Melba	MF 66			gray gritty sandstone; minor black shale beds with syngenetic											
Melba	MF 66			pyrite; BCA 50-70˚ near top but increasing to 70-80˚ at base;											
Melba	MF 66			minor carbonate and quartz-carbonate veining; some leaching											
Melba	MF 66			and vugginess, usually associated with carbonate veins;											
Melba	MF 66			core moderately broken but improving steadily down hole;											
Melba	MF 66			secondary coarse pyrite on some joint surfaces;											
Melba	MF 66			last hematitic unit 68.0-70.5m;											
Melba	MF 66			70.5-108.4m: massive gritty sandstone interbedded with light											
Melba	MF 66			gray siltstone;											
Melba	MF 66			BCA 50-80˚ but generally 70˚;											
Melba	MF 66			first appearance of minor quartz-carbonate veins at 101m;											
Melba	MF 66			ground conditions generally excellent except broken around											
Melba	MF 66			quartz-carbonate veins below 101m;											
Melba	MF 66							108.4	108.8	<0.01	0.01	1.95	15	0.58	3.77
Melba	MF 66	108.4	109.0	**MINERALISED VEIN:**	108.4	109.0	100	108.8	109.0	<0.01	<0.01	0.03	2	<0.01	0.01
Melba	MF 66			200mm quartz-carbonate-sphalerite-galena vein with abundant											
Melba	MF 66			thin veining on HW and black shaley material on FW;											
Melba	MF 66														
Melba	MF 66	109.0	141.6	**INTERBEDDED SANDSTONE-GRITS and minor BLACK SHAL**	109.0	141.6	100								
Melba	MF 66			gray medium-coarse grained sandstone-grit interbedded with											
Melba	MF 66			light gray fine grained siltstone-mudstone; minor dark gray-											
Melba	MF 66			black shale beds (eg) 127.0-130.0m;											
Melba	MF 66			BCA generally 55-60˚;											
Melba	MF 66			common fine (<1mm) white carbonate veins with pyrite; more											
Melba	MF 66			abundant and thicker in shaley beds (hydrothermal veining);											
Melba	MF 66			ground conditions excellent;											
Melba	MF 66			grades into unit below……											
Melba	MF 66														
Melba	MF 66	141.6	167.0	**INTERBEDDED SANDSTONES -GRIT-PYRITIC SHALE:**	141.6	167.0	100								
Melba	MF 66			dark gray-black shales interbedded with gray medium-coarse											
Melba	MF 66			grained gritty sandstone and minor light gray siltstone;											
Melba	MF 66			BCA 50-70˚; generally 65-70˚;											
Melba	MF 66			late stage carbonate veining common either parallel to bedding											
Melba	MF 66			or anastomosing, especially in shales;											
Melba	MF 66			pyrite common in shale beds either as syngenetic											
Melba	MF 66			disseminations or streaks and lenses, or associated with											
Melba	MF 66			carbonate veins; lesser pyrite in sandstone, grits and siltstones;											
Melba	MF 66			ground conditions excellent;											
Melba	MF 66			grades into…..											
Melba	MF 66														
Melba	MF 66	167.0	190.5	**SANDSTONE-GRITS-SILTSTONE:**	167.0	190.5	100								
Melba	MF 66			gray gritty sandstone interbedded with light gray fine grained				182.7	183.2	<0.01	<0.01	0.14	6	0.12	0.14
Melba	MF 66			siltstone and minor dark gray-black shale beds;				183.2	183.5	<0.01	<0.01	0.86	6	0.03	1.16
Melba	MF 66			BCA 50-55˚;											
Melba	MF 66			183.2-183.5m: carbonate vein parallel to bedding, with common											
Melba	MF 66			coarse galena and sphalerite;											
Melba	MF 66			182.7-183.2m: broken shaley unit with common quartz veins and											
Melba	MF 66			pyrite in veins;											
Melba	MF 66														
Melba	MF 66	190.5	197.5	**SILTSTONE-SHALE with diagenetic brecciation:**	190.5	197.5	100	190.5	191.5	0.01	<0.01	1.46	3	<0.01	0.01
Melba	MF 66			light brown siltstone interbedded with dark gray siltstone-shale;				191.5	192.5	0.01	0.01	1.65	3	<0.01	0.01
Melba	MF 66			soft sediment deformation and brecciation common; numerous				192.5	193.5	0.01	0.09	1.89	4	<0.01	0.03
Melba	MF 66			microfractures and veins typically filled with carbonate and				193.5	194.5	<0.01	<0.01	1.67	6	0.11	0.34
Melba	MF 66			ocassionally chlorite; some bedding plane carbonate veins in				194.5	195.5	0.01	<0.01	0.18	3	<0.01	0.02
Melba	MF 66			shaley units;				195.5	196.5	0.01	0.01	0.29	3	<0.01	0.02
Melba	MF 66			BCA 60-70˚;				196.5	197.5	0.01	<0.01	1.34	3	<0.01	0.02
Melba	MF 66			pyrite with minor galena and sphalerite commonly associated											
Melba	MF 66			with carbonate in veins and fine fractures;											
Melba	MF 66														
Melba	MF 66	197.5	299.5	**INTERBEDDED SHALES-SILTSTONE-GRITTY SANDSTONE:**	197.5	299.5	100.0								
Melba	MF 66			interval dominated by dark gray-black shales, pyritic, and											
Melba	MF 66			graphitic in places;											
Melba	MF 66			carbonate veins common, typically carrying pyrite with minor											
Melba	MF 66			galena and sphalerite;											
Melba	MF 66			interbedded with gray gritty sandstone and light gray siltstone,											

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Melba	MF 66			both of which contain minor disseminations and aggregates of											
Melba	MF 66			pyrite;											
Melba	MF 66			BCA 60-70˚, ocassionally as low as 50˚;											
Melba	MF 66			218.0-218.2m: carbonate vein with minor sphalerite and galena;				212.0	213.0	<0.01	<0.01	2.60	4	<0.01	0.02
Melba	MF 66			ground conditions generally good, but some shaley beds				213.0	214.0	<0.01	<0.01	3.30	8	0.07	0.56
Melba	MF 66			extensively broken along bedding planes (graphitic), joints and											
Melba	MF 66			veins;				226.0	227.0	<0.01	<0.01	1.67	5	0.01	0.03
Melba	MF 66			**THIS INTERVAL POSSIBLE SOURCE OF IP ANOMALY:**				227.0	228.0	<0.01	<0.01	1.97	4	<0.01	0.01
Melba	MF 66			257.7-258.2m: massive white quartz-carbonate vein:											
Melba	MF 66			258.2-259.8m: disrupted shaley beds cut by thin carbonate				232.0	233.0	<0.01	<0.01	2.47	4	<0.01	0.01
Melba	MF 66			veins with trace pyrite-galena-sphalerite;				233.0	234.0	0.01	0.01	2.25	4	<0.01	0.02
Melba	MF 66			272.8-273.4 m: quartz and quartz-carbonate veining parallel to											
Melba	MF 66			bedding, with minor pyrite;											
Melba	MF 66			278.8-277.3m: quartz and quartz-carbonate veining:											
Melba	MF 66			below 277m: stratigraphy dominated by gray gritty sandstone											
Melba	MF 66			with minor dark gray shale beds; BCA 70-80˚:											
Melba	MF 66			ground conditions excellent;											
Melba	MF 66			minor quartz and quartz-carbonate veining;											
Melba	MF 66			grading up-hole (facing east):											
Melba	MF 66														
Melba	MF 66			**END of HOLE**											