

ALLEGIANCE MINING NL

EL 43/1992 - MELBA FLATS

ANNUAL REPORT

March 2007

Prepared for:

**Allegiance Mining NL
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1. SUMMARY

A **14-hole core drilling program** totalling 3,600 m was completed during the year, with the following objectives:

- test IP anomalies identified during the 2006 survey between North Cuni and South Cuni
- further test gabbro host rocks beneath and west of the North Cuni and Genets resource areas
- further test gabbro host rocks at Nickel Reward at depth and along strike to the east of identified resources

Principle results of this drilling program were:

- (a) IP anomalies due to pyritic dark grey siltstones-mudstones and graphitic shales
- (b) drilling in the North Cuni-Genets area identified the following:
 - modest increase in low grade resources in the central Genets area (MF 70: 1.9 m 0.75% Ni, 0.8% Cu)
 - the main Genets gabbro extends to the north-east and remains untested in that direction
 - a series of major parallel gabbro bodies lies west of the main mineralised gabbro - these dikes are up to 80 m thick and one of them has a 7-8 m wide mineralised zone on the footwall (where drill tested) averaging 0.2% Ni, 0.1% Cu
- (c) drilling at Nickel Reward highlighted the depth potential of the main gabbro mineralised zone (MF75: 1.8 m 2.4% Ni, 1.8% Cu, and 3.5 m 1.29% Ni, 1.29% Cu + Au, PGM), and supported the interpretation that the host dike is striking north-east.

In addition to the above work, application was made for a 290 ha Mining Lease covering the currently identified resources and their likely extension areas. This is the initial step towards production from Melba, scheduled for 2008.

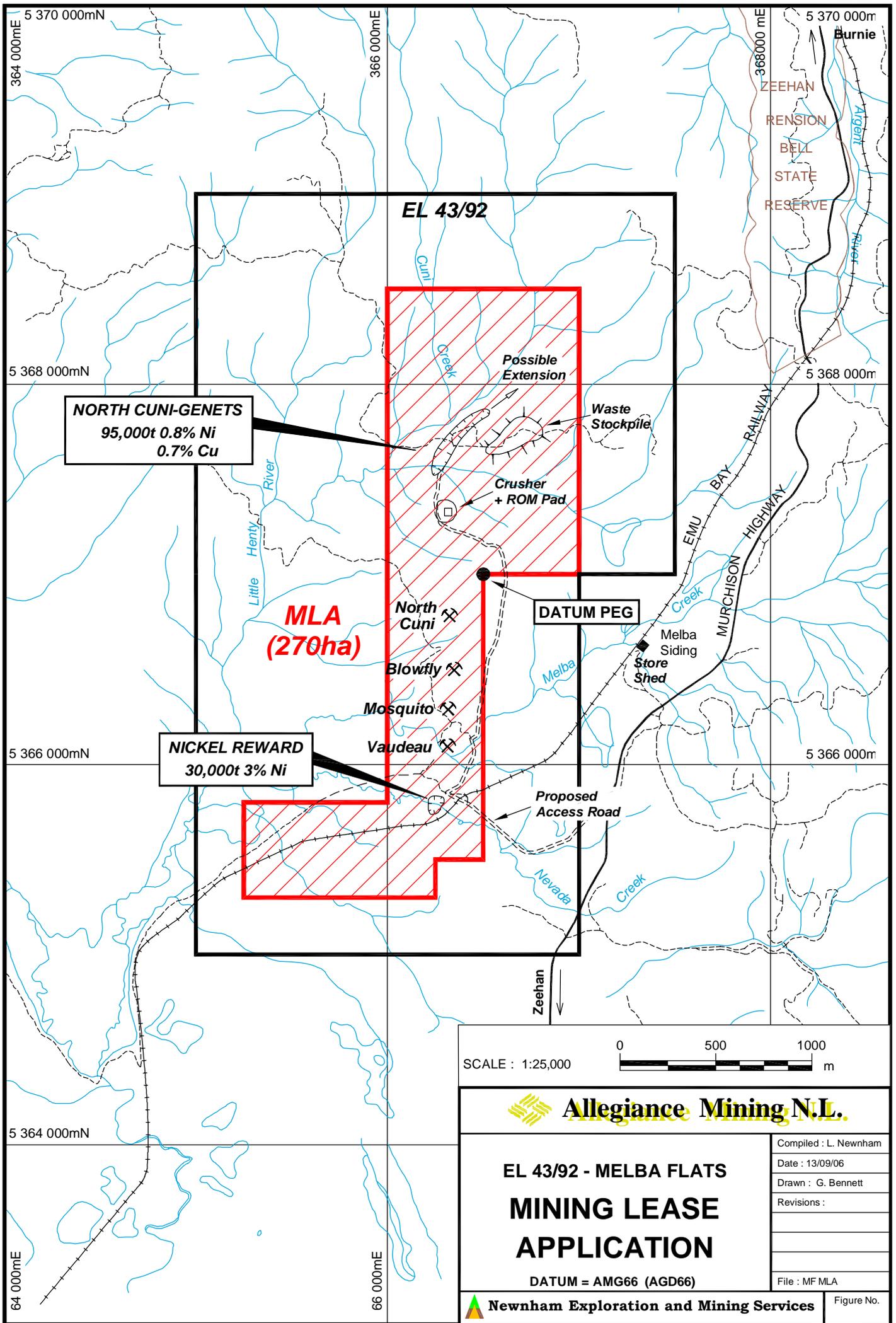
Close liaison was maintained with Forestry Tasmania who are currently clearing much of the Melba Flats area ahead of plantation development in the area.

Expenditure for the 2006-07 year was \$527,000, bringing total expenditure by Allegiance on the licence since 1998 to \$1,254,000.

Work planned for the 2007-08 year will include:

- detailed geological mapping of the whole licence area in response to enhanced outcrop resulting from Forestry Tasmania operations
- further drill testing the North Cuni-Genets gabbro along strike to the north-east and south (minimum 4 holes)
- drill testing the North Cuni-Genets dike swarm between North Cuni-Genets and Tunnel Hill, in the general vicinity of the Lead Blocks Mine (2 holes)
- drill test Nickel Reward at depth (minimum 4 holes)
- drill test Devereau Mine area (minimum 2 holes)
- drill test the area between Nickel Reward and the ultramafic outcrop on the access road (1 hole)
- progress the MLA and studies on that area, thereby moving the project towards production

This work is estimated to cost \$350,000.



NORTH CUNI-GENETS
 95,000t 0.8% Ni
 0.7% Cu

NICKEL REWARD
 30,000t 3% Ni

MLA
 (270ha)



Allegiance Mining N.L.

EL 43/92 - MELBA FLATS

MINING LEASE APPLICATION

DATUM = AMG66 (AGD66)

Compiled : L. Newnham
Date : 13/09/06
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Newnham Exploration and Mining Services Figure No.

2. OBJECTIVES and STRATEGY

The objective at Melba Flats on EL 43/1992 is to expand the currently identified resources at Nickel Reward and North Cuni-Genets to support a larger and longer term mining operation.

Ore from this operation will be mined initially by open-cut, followed by underground development beneath these open-cuts. The ore would be crushed on site and trucked to the Avebury Mill for processing, provided metallurgical compatibility can be demonstrated.

To achieve this objective, the following exploration strategy has been implemented:

- drill test for shallow strike extensions at both Nickel Reward and North Cuni-Genets which may result in increases in open-cut resources
- drill test for depth extensions of the open-cut resources, particularly at Nickel Reward, which may support underground contract mining operations
- explore, mainly by drilling, for larger, deeper deposits within major gabbro dike systems and their ultramafic parents to the east, above the underlying granite ridge

The program for 2007-08 summarised above appropriately addresses this strategy.

3. WORK COMPLETED - CURRENT YEAR

3.1 Drilling Program:

A 14-hole core drilling program totalling 3,600 m was completed during the year.

Drill holes MF65, 66, 67, 72, 73 were designed to test **IP anomalies** identified by the 2006 survey between North Cuni and South Cuni.

Drill holes MF68, 69, 70, 71, 74 were designed to infill and test strike extensions of **Genets**, and test the major gabbro stratigraphically underlying the main host-rock gabbro dike in this area.

Drill holes MF75, 76, 77, 78 were designed to test for strike and depth extensions of the **Nickel Reward** main host-rock gabbro.

Various plans, sections and projections of this drilling program are attached. Drill logs are appended.

3.1.1 IP anomaly drill testing:

Results from the five (5) drill holes completed to test IP anomalies were disappointing.

Outcomes of the program were:

- gabbro dikes were intersected in four of the drill holes and apart from some minor galena-sphalerite-silver associated with carbonate veining, there was no significant mineralisation in these dikes
- the main IP anomalies are now interpreted as caused by pyritic dark gray mudstone-siltstone and pyritic-graphitic shales
- the gabbro dikes between North Cuni and South Cuni are present as a swarm of discontinuous bodies rather than the previously interpreted 1-3 narrow continuous dikes

3.1.2 Genets drilling:

Drill holes MF68, 69, 70, 71, 74 were designed to test for gabbro dikes beneath the Genets resource and interpreted to exist west of Genets.

The drilling confirmed that there are several major gabbroic bodies stratigraphically beneath Genets. The dikes are up to 80 m thick and pinch and swell along strike and down-dip.

They are strongly but variably altered. The first dike beneath the Genets host is affected by abundant and major carbonate and quartz-carbonate veining in drill holes MF68 (7.4 m 2.4% Zn, 1.5% Pb, 26 g/t Ag) and MF69 (4.3 m 2.2% Zn, 1% Pb, 81 g/t Ag).

The second dike below the Genets host has a 7-8 m zone of strong alteration on the footwall, which correlates with similar intersections in previous drill holes - eg, MF35, 40, 50. Nickel and copper values in this alteration zone are generally 0.1-0.2% Ni and 0.1-0.15% Cu with Ni values up to 0.25%. The nickel and copper is assessed to be present as pentlandite and chalcopyrite.

The deeper, westernmost dike is a major unit up to 80 m thick and pervasively altered. However, no significant sulfide mineralisation was intersected.

Drilling at Genets has now demonstrated that there are at least six major gabbro dikes present. Gabbro is far more extensive in this area than previously interpreted. Most of the mineralisation appears concentrated in only one dike and the reason for this is not known.

Drill hole MF70 also infilled a gap in the Genets resource drilling pattern. It intersected 1.9 m 0.75% Ni, 0.8% Cu and extends the resource in that area.

Drill hole MF71 tested the Genets dike 50 m north-east along strike of previous Allegiance drilling and intersected 1.5 m 0.12% Ni at shallow depth, within a 10 m wide dike. This suggests the dike continues untested in this north-east strike direction and at depth.

3.1.3 Nickel Reward drilling:

Drilling at Nickel Reward has been severely constrained to date by the presence of a Scout Camp which occupies ground above the inferred down dip extensions of the main gabbro.

Drill holes MF75, 76, 77, 78 were designed to further test the main gabbro but were not ideally sited.

MF75 intersected the main dike as a 'split gabbro'. The combined intersection was 8.3 m 1.07% Ni, 0.95% Cu, 0.2 g/t Au, 0.38 g/t Pd, 0.25 g/t Pt at a vertical depth of 75 m.

MF76 tested the main dike further east at a vertical depth of 45 m and intersected 2.7 m 0.2% Ni, 0.1% Cu.

MF77 intersected the central section of the main dike at 80 m vertical depth but it was unmineralised.

MF78 was designed to test the main dike 100 m east along strike of previous intersections. It intersected the dike but it was poorly mineralised.

A re-interpretation of the main Nickel Reward dike indicates it is striking 70° and dipping approximately 50° south-east, with an average width of 5 m. A

number of holes have now intersected multiple dikes in the main dike position with individual branches separated by narrow (1-2 m) zones of barren sediments.

3.2 Mining Lease Application:

In order to advance development of the current identified resources at Nickel Reward and North Cuni, a 290 ha Mining Lease was applied for during the year.

It is envisaged that these resources will be developed initially by modest sized open-cuts, progressing underground beneath these open-cuts should future drilling define depth extensions.

4. WORK PLANNED - NEXT YEAR

4.1 Mapping and Surveying:

Forestry Tasmania has recently commenced extensive logging and clear-felling operations over the Melba Flats licence area. This has resulted in a dramatic improvement in access and outcrop.

Advantage has been taken of this situation and an experienced field geologist has been engaged to prepare a detailed surface geological plan of the area. This is something that has never been possible before at Melba Flats, due to the difficult nature of the area. It is anticipated this map will greatly benefit future exploration in the area.

In conjunction with the geological mapping, a surveyor has been engaged to both survey all new forestry roads and to prepare detailed survey base maps of the Nickel Reward and North Cuni-Genets areas to assist with development planning in these areas.

4.2 Drilling Program:

A substantial and coordinated drilling program is planned for both the remaining EL area and the MLA area.

4.2.1 Nickel Reward drilling:

It is planned to complete a minimum four (4) drill holes into Nickel Reward beneath the current drilling pattern. Additional drilling will be undertaken between Nickel Reward and the ultramafic outcrop to the east as an initial test of the gabbro-ultramafic contact zone. Positioning of this hole will be influenced by geological mapping in this area.

4.2.2 North Cuni-Genets-Lead Blocks drilling:

A minimum four (4) drill holes are planned to test north-east and south strike extensions of the North Cuni-Genets main mineralised gabbro. These holes are necessary to assist with design of the open-cut in this area.

An additional two (2) deeper drill holes will be undertaken between Genets and the outcropping ultramafic east of Genets. The positioning of these holes will be influenced by both the geological mapping in this area and an assessment of existing data in the Lead Blocks area.

4.2.3 Devereau Mine drilling:

The Devereau Mine lies on a mineralised gabbro dike 600 m west along strike of

Nickel Reward. Apart from two previous shallow drill holes, which produced confusing but encouraging results, no recent work has been completed in this area. Two drill holes beneath the former workings are planned.

4.3 Metallurgical Test Work:

To date, no metallurgical test work has been completed on Melba Flats mineralisation to determine its suitability for treatment in the Avebury concentrator, or in any other potential concentrator.

A program of test work will be undertaken on both recent and future intersections and some holes may have to be specifically drilled to acquire appropriate material in sufficient quantity for this work.

4.4 Development Proposal and Environment Management Plan:

A Level 2 DPEMP will be completed on the proposed development within the MLA area. This work will also impact on the remaining EL.

Appendix
DRILL LOGS

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 68

Project	Hole ID	Depth		Description	Recovery			Assays										
		From	To		From	To	%	From	To	% Ni	% Cu	% S	Ag	% Pb	% Zn			
Melba	MF 68	0.0	17.0	WEATHERED SEDIMENTS:														
Melba	MF 68			orange colored, severely weathered medium grained sediments;	0.0	1.8	80											
Melba	MF 68			BCA 50°;	1.8	3.0	60											
Melba	MF 68			very soft, decomposed, but recoveries reasonable;	3.0	4.0	70											
Melba	MF 68				4.0	5.0	60											
Melba	MF 68	17.0	19.0	WEATHERED GABBRO and MASSIVE SULFIDE RUBBLE:	5.0	6.0	50											
Melba	MF 68			possible sharp HW contact with decomposed gabbro at	6.0	7.0	70											
Melba	MF 68			17m: 70° CA; CAVITY REPORTED BY DRILLERS (workings?)	7.0	8.0	90											
Melba	MF 68			17.0-17.8m: quartz and massive sulfide rubble- very poor core	8.0	9.0	90											
Melba	MF 68			recoveries (20%);	9.0	10.0	100											
Melba	MF 68			17.8-19.0m: broken, very weathered gabbro, and very poor core	10.0	11.0	90											
Melba	MF 68			recoveries;	11.0	12.0	80											
Melba	MF 68				12.0	14.0	100											
Melba	MF 68	19.0	54.7	INTERBEDDED SILTSTONE-SANDSTONE-SHALE:	14.0	14.9	30											
Melba	MF 68			interbedded pale gray siltstone-mudstone and gray gritty	14.9	15.7	25											
Melba	MF 68			sandstone and dark gray shales;	15.7	16.3	0											
Melba	MF 68			BCA 55°; slump to 35° at base of unit;	16.3	17.0	20											
Melba	MF 68			some quartz veining in black shales between 38.0-41.5m;	17.0	17.8	10											
Melba	MF 68			vuggy nature to 41.5m evidence of water movement;	17.8	19.0	10											
Melba	MF 68			core very broken and rubbly to 41.5m;	19.0	19.8	40											
Melba	MF 68			53.7m: 300mm light brown fine grained igneous (?) rock with	19.8	21.0	20											
Melba	MF 68			abundant white spotting;	21.0	22.0	20											
Melba	MF 68				22.0	22.9	10											
Melba	MF 68	54.7	67.0	GABBRO with QUARTZ-CARBONATE-SULFIDE VEINING on F	22.9	23.5	60	54.7	55.7	0.12	0.05	0.31	6	0.04	0.07			
Melba	MF 68			54.7-59.2m: strongly altered medium grained gabbro with minor	23.5	24.7	80	55.7	56.7	0.06	0.02	<0.02	4	<0.01	0.01			
Melba	MF 68			seams of semi-massive sulfide in last 200mm.	24.7	25.2	90	56.7	57.7	0.05	0.01	<0.02	6	<0.01	0.02			
Melba	MF 68			cut by numerous fine carbonate and quartz-carbonate veins;	25.2	26.2	100	57.7	58.7	0.04	0.01	0.02	8	<0.01	0.02			
Melba	MF 68			broken and rubbly in places;	26.2	27.2	70	58.7	59.2	0.04	0.01	0.25	8	0.03	0.12			
Melba	MF 68			broken contact with....	27.2	28.0	30	59.2	60.9	0.01	0.02	3.99	72	4.42	6.29			
Melba	MF 68			59.2-62.3m: veined and brecciated altered gabbro;	28.0	29.6	50	60.9	61.6	0.02	0.01	0.97	15	0.47	1.84			
Melba	MF 68			clasts of light brown altered gabbro set in matrix of quartz-	29.6	30.7	80	61.6	62.3	0.01	0.01	2.22	18	1.01	3.63			
Melba	MF 68			carbonate-galena-sphalerite with numerous lesser quartz-	30.7	32.0	100	62.3	63.0	<0.01	0.01	0.33	9	0.42	0.39			
Melba	MF 68			carbonate-galena-sphalerite veins cutting altered gabbro sections;	32.0	33.0	80	63.0	64.3	0.01	<0.01	0.48	6	0.15	0.15			
Melba	MF 68			62.3-64.3m: gray gritty sandstone extensively veined by quartz-	33.0	34.0	70	64.3	65.3	<0.01	0.02	1.03	24	0.81	1.33			
Melba	MF 68			carbonate-galena-sphalerite-pyrite(?) veins;	34.0	35.1	50	65.3	66.6	<0.01	<0.01	0.70	9	0.18	1.16			
Melba	MF 68			64.3-66.6m: brecciated and veined sandstone with sandstone	35.1	36.0	70	66.6	67.0	0.02	<0.01	0.12	4	0.05	0.19			
Melba	MF 68			clasts set in quartz and quartz-carbonate-galena-sphalerite-	36.0	37.0	80											
Melba	MF 68			pyrite matrix; sharp FW contact 60° CA;	37.0	38.0	50											
Melba	MF 68			66.6-67.0m: altered dark gray medium grained gabbro with minor	38.0	38.7	70											
Melba	MF 68			sedimentary beds (?) near FW;	38.7	39.8	90											
Melba	MF 68			sharp FW contact 70° CA;	39.8	40.9	80											
Melba	MF 68				40.9	41.4	80											
Melba	MF 68	67.0	97.1	HEMATITIC SEDIMENTS:	41.4	43.0	85											
Melba	MF 68			interbedded reddish brown siltstones and sandstones;	43.0	57.3	100											
Melba	MF 68			BCA 55-60°;	57.3	59.2	90											
Melba	MF 68			below 94.0m., BCA becomes erratic accompanied by increase in	59.2	61.0	90											
Melba	MF 68			quartz and quartz-carbonate veins;	61.0	67.0	100											
Melba	MF 68			ground conditions excellent;	67.0	97.1	100											
Melba	MF 68			sharp contact with gabbro below 60° CA;														
Melba	MF 68	97.1	113.4	GABBRO:	97.1	113.4	100	97.1	98.0	0.01	<0.01	0.50	5	0.05	0.43			
Melba	MF 68			97.1-99.3m: very altered fine-medium grained gabbro cut by				98.0	99.0	0.05	0.01	0.04	4	0.01	0.04			
Melba	MF 68			numerous quartz-carbonate-pyrite-galena-sphalerite veins;				99.0	100.0	0.03	0.01	0.11	3	0.02	0.08			
Melba	MF 68			97.5m: 300mm vein of colofom quartz-carbonate;				100.0	101.0	0.02	0.01	0.02	3	<0.01	0.01			
Melba	MF 68			99.3-113.4m: dark gray medium-coarse grained gabbro cut by				101.0	102.0	0.02	0.01	0.07	3	<0.01	0.01			
Melba	MF 68			occasional quartz-carbonate veins;				102.0	103.0	0.02	0.01	0.02	3	<0.01	0.01			
Melba	MF 68			minor fine grained disseminated sulfides;				103.0	104.0	0.02	<0.01	0.13	3	<0.01	0.04			
Melba	MF 68			ground conditions excellent;				104.0	105.0	0.04	<0.01	0.15	4	<0.01	0.06			
Melba	MF 68			sharp contact with sediments below 85° CA;				105.0	106.0	0.03	0.01	0.03	4	<0.01	0.02			
Melba	MF 68							106.0	107.0	0.10	0.06	0.22	4	<0.01	0.01			
Melba	MF 68	113.4	120.0	SEDIMENTS:	113.4	120.0	100	107.0	108.0	0.14	0.12	0.31	4	<0.01	0.01			
Melba	MF 68			light gray-light brown bleached and altered fine grained				108.0	109.0	0.15	0.10	0.74	5	0.14	0.32			
Melba	MF 68			sediments; brecciation common in lower half, accompanied by				109.0	110.0	0.13	0.10	0.33	4	<0.01	0.01			
Melba	MF 68			quartz-carbonate and quartz-carbonate sulfide veining;				110.0	111.0	0.04	0.01	0.04	3	<0.01	0.01			
Melba	MF 68			118.7m: 300mm quartz-carbonate-sulfide vein				111.0	112.0	0.05	0.02	<0.02	3	<0.01	0.01			
Melba	MF 68							112.0	113.4	0.03	0.01	<0.02	3	<0.01	0.01			
Melba	MF 68	120.0	122.8	GABBRO:	120.0	122.8	100											
Melba	MF 68			dark gray medium grained gabbro with irregular FW and HW				116.5	117.5	<0.01	<0.01	0.95	4	0.03	0.09			
Melba	MF 68			contacts; FW contact 30° CA and marked by narrow white				117.5	118.7	0.01	<0.01	0.52	3	0.04	0.06			
Melba	MF 68			carbonate vein;				118.7	119.0	<0.01	<0.01	1.15	4	0.03	1.34			
Melba	MF 68			only trace disseminated sulfides;				119.0	120.0	0.01	<0.01	1.10	4	0.07	0.03			
Melba	MF 68							120.0	121.0	0.02	<0.01	<0.02	4	<0.01	0.02			
Melba	MF 68	122.8	141.8	SEDIMENTS:	122.8	141.8	100	121.0	122.0	0.01	0.01	<0.02	4	<0.01	0.01			
Melba	MF 68			122.8-130.3m: hematitic siltstone and sandstone; grading up				122.0	122.8	0.02	0.01	<0.02	4	<0.01	0.01			
Melba	MF 68			hole; BCA 60°;														
Melba	MF 68			130.3-141.8m: dark gray interbedded sandstone and siltstone				141.8	143.0	0.02	0.02	<0.02	4	<0.01	0.01			
Melba	MF 68			cut by common thin quartz-carbonate-galena-sphalerite veins;				143.0	144.0	0.02	0.01	<0.02	3	<0.01	0.01			
Melba	MF 68			BCA 50°;				144.0	145.0	0.02	0.01	0.29	3	<0.01	0.01			
Melba	MF 68			ground conditions good;				145.0	146.0	0.02	0.01	<0.02	3	<0.01	0.01			
Melba	MF 68			sharp 70° contact with gabbro below;				146.0	147.0	0.02	0.01	<0.02	3	<0.01	0.01			

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 69

Melba	MF 69	107.5	126.6	GABBRO:	107.5	126.6	100	107.6	108.6	0.02	0.01	<0.02	3	<0.01	0.01
Melba	MF 69			dark gray moderately altered gabbro;				108.6	109.6	0.02	0.01	<0.02	3	<0.01	0.01
Melba	MF 69			107.5-123.8m: coarse-medium grained gabbro with minor fine				109.6	110.6	0.03	<0.01	0.06	3	<0.01	0.01
Melba	MF 69			grained disseminated sulfides;				110.6	111.6	0.03	0.01	0.08	4	<0.01	0.01
Melba	MF 69			123.8-126.6m: fine-medium grained dark gray gabbro with minor				111.6	112.6	0.02	0.01	0.02	3	<0.01	<0.01
Melba	MF 69			pentlandite, especially 124.8-125.8m;				112.6	113.6	0.02	0.01	0.02	3	<0.01	0.01
Melba	MF 69			lower contact 40° CA;				113.6	114.6	0.05	0.02	<0.02	3	<0.01	0.01
Melba	MF 69			ground conditions excellent;				114.6	115.6	0.07	0.01	<0.02	4	<0.01	0.01
Melba	MF 69							115.6	116.6	0.07	0.01	<0.02	4	<0.01	0.01
Melba	MF 69	126.6	134.7	HEMATITIC SEDIMENTS:	126.6	134.7	100	116.6	117.6	0.06	0.02	<0.02	3	<0.01	0.01
Melba	MF 69			reddish brown massive fine grained hematitic sediments with				117.6	118.6	0.05	0.02	<0.02	3	<0.01	0.01
Melba	MF 69			minor interbeds gray siltstone-sandstone;				118.6	119.6	0.13	0.06	0.04	4	<0.01	0.01
Melba	MF 69			BCA 60°;				119.6	120.6	0.17	0.10	0.11	3	<0.01	0.01
Melba	MF 69			minor carbonate veining in places;				120.6	121.6	0.25	0.16	0.45	4	<0.01	0.01
Melba	MF 69			very sharp 40° CA contact with gabbro below;				121.6	122.6	0.16	0.10	0.10	3	<0.01	0.01
Melba	MF 69							122.6	123.8	0.12	0.06	0.06	3	<0.01	0.01
Melba	MF 69	134.7	136.7	GABBRO:	134.7	136.7	100	123.8	124.8	0.16	0.13	0.02	3	<0.01	0.01
Melba	MF 69			dark gray coarse grained altered gabbro;				124.8	125.8	0.21	0.17	0.14	3	<0.01	0.01
Melba	MF 69			fine carbonate veins common;				125.8	126.6	0.04	0.03	<0.02	3	<0.01	0.01
Melba	MF 69			trace-minor disseminated sulfides throughout;											
Melba	MF 69			sharp upper contact 40° CA; sharp lower contact 50° CA;				134.7	135.7	0.03	0.02	<0.02	4	<0.01	0.01
Melba	MF 69							135.7	136.7	0.02	0.02	<0.02	3	<0.01	0.01
Melba	MF 69	136.7	146.5	INTERBEDDED HEMATITIC SEDIMENTS and GRAY SILTSTON	136.7	146.5	100								
Melba	MF 69			136.5-139.0m: reddish brown fine grained hematitic siltstone and											
Melba	MF 69			mudstone;											
Melba	MF 69			BCA 50°;											
Melba	MF 69			grades into.....											
Melba	MF 69			139.0-146.5m: dark gray fine grained mudstone-siltstone-											
Melba	MF 69			sandstone-grit sequence;											
Melba	MF 69			BCA 50-60°;											
Melba	MF 69			below 144.7m., increase in carbonate veins commonly											
Melba	MF 69			carrying coarse galena-sphalerite											
Melba	MF 69							144.5	145.5	0.01	0.01	<0.02	3	<0.01	0.01
Melba	MF 69	146.5	171.3	GABBRO- altered and veined:	146.5	159.9	100	145.5	146.5	0.01	0.01	0.90	4	0.08	0.12
Melba	MF 69			thick gabbro dike which becomes strongly carbonate altered	159.9	161.7	90	146.5	147.5	0.03	0.02	<0.02	4	0.03	0.07
Melba	MF 69			and veined in lower half; veins often carrying galena and	161.7	162.0	95	147.5	148.5	0.03	0.01	<0.02	4	<0.01	0.02
Melba	MF 69			sphalerite;	162.0	162.5	60	148.5	149.5	0.02	0.01	<0.02	4	<0.01	0.01
Melba	MF 69			core broken and brecciated in veined sections;	162.5	171.3	100	149.5	150.5	0.02	0.01	<0.02	5	0.06	0.32
Melba	MF 69			146.5-157.5m: dark-light gray fine-medium grained gabbro with				150.5	151.5	0.03	0.02	<0.02	5	<0.01	0.01
Melba	MF 69			strong carbonate alteration; feldspars variably altered to				151.5	152.5	0.01	<0.01	<0.02	5	0.01	0.04
Melba	MF 69			carbonate, accompanied by numerous fine carbonate veins and				152.5	153.5	0.03	0.01	<0.02	3	<0.01	0.01
Melba	MF 69			occasional major carbonate veins;				153.5	154.5	0.03	0.01	<0.02	3	<0.01	0.01
Melba	MF 69			streaky black serpentine material throughout;				154.5	155.5	0.04	0.01	<0.02	4	<0.01	0.01
Melba	MF 69			trace-minor sulfides as fine disseminations and fine veinlets;				155.5	156.5	0.04	0.01	<0.02	3	<0.01	0.03
Melba	MF 69			minor galena-sphalerite-pyrite in carbonate veins;				156.5	157.5	0.03	0.01	<0.02	5	0.01	0.05
Melba	MF 69			upper contact with sediments sharp 50° CA;				157.5	158.5	0.02	<0.01	<0.02	5	0.05	0.34
Melba	MF 69			157.5-167.5m: cream and green medium grained altered gabbro				158.5	159.5	0.02	<0.01	<0.02	4	0.01	0.14
Melba	MF 69			with strong carbonate alteration of feldspars, accompanied by				159.5	160.5	<0.01	<0.01	<0.02	5	<0.01	0.03
Melba	MF 69			abundant carbonate and serpentine veining;				160.5	161.5	0.02	<0.01	<0.02	4	0.01	0.08
Melba	MF 69			pale green color (alteration) feature of unit;				161.5	162.5	0.01	<0.01	<0.02	4	0.03	0.55
Melba	MF 69			trace-minor disseminated sulfides, and minor galena-aphalerite				162.5	163.5	0.03	<0.01	<0.02	3	0.03	0.22
Melba	MF 69			in carbonate veins;				163.5	164.5	0.04	<0.01	<0.02	2	0.02	0.24
Melba	MF 69			167.5-171.3m: gabbro very altered to pale green and cream				164.5	165.5	0.03	0.01	<0.02	4	0.01	0.24
Melba	MF 69			color; brecciated by intrusion of major carbonate and quartz-				165.5	166.5	0.03	<0.01	<0.02	4	0.11	0.22
Melba	MF 69			carbonate veins carrying common galena and sphalerite;				166.5	167.5	0.02	<0.01	<0.02	4	0.18	0.40
Melba	MF 69			also common are very fine late stage veinlets infilled with				167.5	168.5	0.02	<0.01	<0.02	5	0.15	0.47
Melba	MF 69			sulfides;				168.5	169.5	<0.01	<0.01	<0.02	6	0.22	0.37
Melba	MF 69			core very broken;				169.5	170.5	0.02	<0.01	<0.02	4	0.07	0.36
Melba	MF 69			FW contact not obvious;				170.5	171.3	0.01	<0.01	<0.02	3	0.11	0.30
Melba	MF 69														
Melba	MF 69	171.3	200.6	ALTERED SEDIMENTS:	171.3	200.6	100								
Melba	MF 69			dark gray interbedded siltstone-sandstone-mudstone;											
Melba	MF 69			BCA 80°;											
Melba	MF 69			minor pyrite disseminated throughout;											
Melba	MF 69			chlorite spotting (?) common in some sections-possibly some											
Melba	MF 69			narrow gabbro zones;											
Melba	MF 69			core moderately broken with carbonate and quartz-carbonate											
Melba	MF 69			veins common;											
Melba	MF 69			198.3-200.6m: increase in carbonate and quartz-carbonate											
Melba	MF 69			veining, generally carrying coarse galena-sphalerite;											
Melba	MF 69			contact with gabbro below not obvious because of intense				198.3	199.5	<0.01	<0.01	<0.02	4	0.15	0.68
Melba	MF 69			alteration/silicification along contact zone- has appearance of				199.5	200.6	<0.01	<0.01	<0.02	3	0.07	0.49
Melba	MF 69			bleached chilled margin;				200.6	201.6	0.01	<0.01	<0.02	4	0.02	0.53
Melba	MF 69							201.6	202.6	0.01	<0.01	<0.02	6	0.14	0.82
Melba	MF 69	200.6	277.7	GABBRO:	200.6	277.7	100	202.6	203.6	0.01	<0.01	<0.02	9	0.48	0.70
Melba	MF 69			intense carbonate veining and alteration on HW;				203.6	204.6	<0.01	<0.01	<0.02	6	0.04	1.02
Melba	MF 69			200.6-208.5m: light gray-greenish-brown fine grained gabbro,				204.6	205.6	<0.01	<0.01	0.73	7	0.03	0.59
Melba	MF 69			intensely altered and brecciated, and veined by massive				205.6	206.6	<0.01	<0.01	<0.02	7	0.02	1.27
Melba	MF 69			carbonate and quartz-carbonate veins carrying coarse galena-				206.6	207.6	0.01	<0.01	<0.02	5	0.03	0.80
Melba	MF 69			sphalerite-pyrite;				207.6	208.5	0.02	0.02	<0.02	11	0.42	1.03
Melba	MF 69			core very broken;				208.5	210.0	0.05	<0.01	<0.02	4	0.02	0.05
Melba	MF 69			208.5-277.7m: dark gray coarse grained altered gabbro with				210.0	211.0	0.03	0.01	<0.02	3	<0.01	0.02
Melba	MF 69			mottled appearance due to alteration of mafics to serpentine/				211.0	212.0	<0.01	<0.01	<0.02	3	<0.01	0.02
Melba	MF 69			chlorite;				212.0	213.0	<0.01	<0.01	0.03	2	<0.01	0.01
Melba	MF 69			significant sulfides as irregular aggregates, thin veinlets and				213.0	214.0	<0.01	<0.01	<0.02	3	<0.01	0.01
Melba	MF 69			disseminations in upper section but decreasing rapidly down				214.0	215.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			hole; only trace sulfides below 240m;				215.0	216.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			serpentinisation/alteration pervasive right through unit both as				216.0	217.0	<0.01	<0.01	<0.02	3	0.03	0.12
Melba	MF 69			spotting and talc-carbonate-serpentine seams and irregular				217.0	218.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			masses;				218.0	219.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			1-20mm carbonate and quartz-carbonate veins common;				219.0	220.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			ground conditions excellent;				220.0	221.0	<0.01	<0.01	0.14	2	<0.01	0.01
Melba	MF 69			sharp but undulating FW contact; basal 300mm very fine grained				221.0	222.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			and carrying significant disseminated sulfides;				222.0	223.0	<0.01	<0.01	<0.02	2	<0.01	0.02
Melba	MF 69							223.0	224.0	<0.01	<0.01	<0.02	2	<0.01	0.01

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 69

Melba	MF 69	277.7	332.8	INTERBEDDED SEDIMENTS:	277.7	332.8	100	224.0	225.0	<0.01	<0.01	<0.02	2	<0.01	0.01
Melba	MF 69			interbedded light gray and dark gray siltstone gritty sandstone				225.0	226.0	<0.01	<0.01	0.25	3	<0.01	0.01
Melba	MF 69			and minor mudstone;				226.0	227.0	<0.01	<0.01	<0.02	3	<0.01	0.01
Melba	MF 69			BCA generally 45-50°;				227.0	228.0	<0.01	<0.01	<0.02	3	<0.01	0.01
Melba	MF 69			minor 1-10mm carbonate veining near top of interval, decreasing				228.0	229.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
Melba	MF 69			down hole;				229.0	230.0	<0.01	<0.01	<0.02	3	<0.01	<0.01
Melba	MF 69			294.4-295.4m: series of 10-20mm carbonate veins with coarse				230.0	231.0	<0.01	<0.01	0.02	1	<0.01	0.02
Melba	MF 69			sphalerite and galena;				231.0	232.0	<0.01	<0.01	0.03	5	<0.01	<0.01
Melba	MF 69			296.5m: 100mm carbonate vein 30° CA with minor sphalerite and				232.0	233.0	<0.01	<0.01	<0.02	4	<0.01	<0.01
Melba	MF 69			galena;				233.0	234.0	<0.01	<0.01	<0.02	3	<0.01	<0.01
Melba	MF 69			several minor broken sections but ground conditions generally				234.0	235.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
Melba	MF 69			very good;				235.0	236.0	<0.01	<0.01	<0.02	3	<0.01	<0.01
								236.0	237.0	<0.01	<0.01	<0.02	4	<0.01	0.01
				END OF HOLE				237.0	238.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								238.0	239.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								239.0	240.0	<0.01	<0.01	<0.02	5	<0.01	<0.01
								240.0	241.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								241.0	242.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								242.0	243.0	<0.01	<0.01	<0.02	1	<0.01	<0.01
								243.0	244.0	<0.01	<0.01	<0.02	3	<0.01	<0.01
								244.0	245.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								245.0	246.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								246.0	247.0	<0.01	<0.01	0.07	1	<0.01	<0.01
								247.0	248.0	<0.01	<0.01	0.12	2	<0.01	<0.01
								248.0	249.0	<0.01	<0.01	<0.02	1	<0.01	<0.01
								249.0	250.0	<0.01	<0.01	0.03	3	<0.01	<0.01
								250.0	251.0	<0.01	<0.01	0.03	4	<0.01	<0.01
								251.0	252.0	<0.01	0.01	<0.02	3	<0.01	<0.01
								252.0	253.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								253.0	254.0	<0.01	<0.01	<0.02	2	<0.01	<0.01
								254.0	255.0	<0.01	<0.01	<0.02	4	<0.01	<0.01
								255.0	256.0	<0.01	0.01	<0.02	6	<0.01	<0.01
								256.0	257.0	0.02	<0.01	<0.02	3	<0.01	<0.01
								257.0	258.0	0.01	0.01	<0.02	2	<0.01	<0.01
								258.0	259.0	0.02	<0.01	<0.02	4	<0.01	0.01
								259.0	260.0	0.02	<0.01	<0.02	4	<0.01	0.02
								260.0	261.0	0.02	<0.01	<0.02	7	<0.01	0.01
								261.0	262.0	0.02	<0.01	0.02	6	<0.01	0.01
								262.0	263.0	0.02	<0.01	<0.02	5	<0.01	0.02
								263.0	264.0	0.02	<0.01	<0.02	2	<0.01	<0.01
								264.0	265.0	0.03	<0.01	<0.02	5	<0.01	0.01
								265.0	266.0	0.04	0.01	0.03	9	<0.01	0.01
								266.0	267.0	0.04	<0.01	0.02	4	<0.01	0.01
								267.0	268.0	0.03	<0.01	<0.02	3	0.03	0.12
								268.0	269.0	0.03	<0.01	<0.02	7	<0.01	0.01
								269.0	270.0	0.03	<0.01	<0.02	4	<0.01	<0.01
								270.0	271.0	0.03	<0.01	<0.02	3	<0.01	<0.01
								271.0	272.0	0.02	<0.01	<0.02	5	<0.01	0.01
								272.0	273.0	0.02	<0.01	<0.02	1	<0.01	<0.01
								273.0	274.0	0.02	<0.01	<0.02	4	<0.01	<0.01
								274.0	275.0	0.03	0.01	<0.02	4	<0.01	0.01
								275.0	276.0	0.02	<0.01	<0.02	3	0.01	0.04
								276.0	277.5	0.02	<0.01	<0.02	6	<0.01	0.01
								277.5	277.7	0.02	0.01	0.02	5	<0.01	0.01

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Project	Hole ID	Log		Description	Recovery			Assays										
		From	To		From	To	%	From	To	% Ni	% Cu	% S	Ag	% Pb	% Zn			
Melba	MF 70	0.0	2.0	SOIL and CLAY:	0.0	1.0	20											
Melba	MF 70				1.0	2.0	20											
Melba	MF 70	2.0	23.8	INTERBEDDED FINE and COARSE SEDIMENTS:	2.0	3.0	20											
Melba	MF 70			light gray siltstone and mudstone interbedded with light gray	3.0	4.0	20											
Melba	MF 70			gritty sandstone;	4.0	5.0	20											
Melba	MF 70			BCA 70°;	5.0	6.0	30											
Melba	MF 70			several vuggy water worn sections;	6.0	7.0	50											
Melba	MF 70			core very broken, soft and weathered with significant core loss;	7.0	8.5	65											
Melba	MF 70			sharp conformable contact with unit below;	8.5	10.0	60											
Melba	MF 70				10.0	11.0	50											
Melba	MF 70	23.8	30.1	HEMATITIC SEDIMENTS:	11.0	12.0	30											
Melba	MF 70			reddish-brown interbedded hematitic siltstone-mudstone and	12.0	13.0	70											
Melba	MF 70			sandstone;	13.0	14.5	80											
Melba	MF 70			BCA 70°;	14.5	16.0	60											
Melba	MF 70			core moderately competent with some rubbly sections;	16.0	19.0	100											
Melba	MF 70			sharp contact with unit below;	19.0	20.5	65											
Melba	MF 70				20.5	22.0	90											
Melba	MF 70	30.1	33.8	BROKEN SILTSTONE:	22.0	23.2	90											
Melba	MF 70			light gray fine grained siltstone-mudstone;	23.2	28.9	100											
Melba	MF 70			very broken and rubbly core;	28.9	30.8	90											
Melba	MF 70			sharp but broken contact with unit below;	30.8	32.1	70											
Melba	MF 70				32.1	32.8	100	33.8	34.6	0.02	0.01							
Melba	MF 70	33.8	46.3	GABBRO:	32.8	33.7	60	34.6	35.6	0.02	0.01							
Melba	MF 70			dark gray, medium-coarse grained gabbro, strongly altered, and	33.7	34.9	50	35.6	36.6	0.02	<0.01							
Melba	MF 70			partially weathered;	34.9	36.0	95	36.6	37.6	0.02	0.01							
Melba	MF 70			39.6-44.5m: sulfidic zone with pentlandite associated with strong	36.0	43.0	100	37.6	38.6	0.03	0.01							
Melba	MF 70			carbonate and serpentine alteration zones as fine disseminations	43.0	44.5	90	38.6	39.6	0.04	0.01							
Melba	MF 70			and in thin late stage carbonate veins;	44.5	46.3	100	39.6	40.6	0.28	0.17							
Melba	MF 70			gabbro above and below this interval carries only trace-minor				40.6	41.6	0.23	0.17							
Melba	MF 70			disseminated sulfides;				41.6	42.6	0.34	0.24							
Melba	MF 70			upper contact broken;				42.6	43.6	0.82	0.75							
Melba	MF 70			lower contact sharp and conformable 45-50° CA;				43.6	44.5	0.66	0.92							
Melba	MF 70			core moderately competent but several broken zones;				45.5	45.5	0.05	0.03							
Melba	MF 70			some core losses;				45.5	46.3	0.04	0.02							
Melba	MF 70																	
Melba	MF 70	46.3	66.5	INTERBEDDED SHALE and SANDSTONE:	46.3	48.5	100											
Melba	MF 70			light gray siltstone interbedded with dark gray shales;	48.5	49.8	60											
Melba	MF 70			bedding erratic with soft sediment slumping but BCA	49.8	50.2	90											
Melba	MF 70			generally 40-45°;	50.2	52.0	30											
Melba	MF 70			core moderately broken;	52.0	54.2	70											
Melba	MF 70				54.2	55.0	90											
Melba	MF 70	66.5	80.2	HEMATITIC SEDIMENTS:	55.0	56.3	100											
Melba	MF 70			reddish brown hematitic siltstone-sandstone with minor	56.3	57.7	60											
Melba	MF 70			interbedded light gray siltstone near base;	57.7	61.0	100											
Melba	MF 70			BCA 70-80°;	61.0	61.5	90											
Melba	MF 70			ground conditions generally good;	61.5	64.0	90											
Melba	MF 70			broken but conformable upper contact;	64.0	80.2	100	80.2	81.2	0.01	<0.01							
Melba	MF 70			sharp conformable lower contact 60° CA;				81.2	82.2	0.02	0.01							
Melba	MF 70							82.2	83.2	0.02	0.01							
Melba	MF 70	80.2	99.7	ALTERED GABBRO:	80.2	99.7	100	83.2	84.2	0.01	<0.01							
Melba	MF 70			medium-dark gray, medium-coarse grained gabbro, altered and				84.2	85.2	0.01	<0.01							
Melba	MF 70			with chilled margins ? (or fine grained hornfelsed sediments ?);				85.2	86.2	0.02	<0.01							
Melba	MF 70			80.2-89.2m: monotonous altered gabbro; trace-minor				86.2	87.2	0.02	<0.01							
Melba	MF 70			disseminated sulfides;				87.2	88.2	0.01	<0.01							
Melba	MF 70			ground conditions very good;				88.2	89.2	0.02	<0.01							
Melba	MF 70			89.2-93.2m: gabbro more altered (darker) with serpentinised				89.2	90.2	0.03	<0.01							
Melba	MF 70			patches and cut by numerous 1-2mm carbonate-talc veins;				90.2	91.2	0.04	0.01							
Melba	MF 70			minor-common pentlandite and chalcopyrite associated with				91.2	92.2	0.08	0.04							
Melba	MF 70			these veins either as streaks within veins or as coarse				92.2	93.2	0.12	0.08							
Melba	MF 70			disseminations and clots adjacent to the veins;				93.2	94.2	0.08	0.05							
Melba	MF 70			sphalerite in several more major carbonate-talc veins;				94.2	95.2	0.22	0.16							
Melba	MF 70			93.2-99.7m: as for 80.2m.....				95.2	96.2	0.16	0.12							
Melba	MF 70			sharp FW contact 40° CA;				96.2	97.2	0.03	0.01							
Melba	MF 70							97.2	98.2	0.03	0.01							
Melba	MF 70	99.7	125.8	SEDIMENTS:	99.7	125.8	100	98.2	99.7	0.03	0.01							
Melba	MF 70			interbedded dark and light gray sandstone and siltstone with														
Melba	MF 70			minor shaley beds;														
Melba	MF 70			BCA 70°;														
Melba	MF 70			110.0-117.4m: sediments bleached and altered to light pink-														
Melba	MF 70			brown color and cut by common creamy carbonate veins up to														
Melba	MF 70			100mm., often carrying coarse sphalerite and galena;														
Melba	MF 70			ground conditions very good;				125.8	127.0	0.02	0.01							
Melba	MF 70			sharp but irregular contact with gabbro below 40-45° CA;				127.0	128.0	0.02	0.01							
Melba	MF 70							128.0	129.0	0.02	0.01							
Melba	MF 70	125.8	141.5	GABBRO:	125.8	141.5	100	129.0	130.0	0.02	0.01							
Melba	MF 70			dark gray fine-medium grained gabbro;				130.0	131.0	0.02	<0.01							
Melba	MF 70			finer grained narrow chilled margins;				131.0	132.0	0.01	<0.01							
Melba	MF 70			alteration moderate-strong with formation of pervasive talc-				132.0	133.0	0.01	<0.01							
Melba	MF 70			carbonate and darker serpentinite patches;				133.0	134.0	0.02	<0.01							
Melba	MF 70			trace-minor disseminated sulfides, generally associated with				134.0	135.0	0.04	0.01							
Melba	MF 70			areas of darker serpentinite-talc-carbonate;				135.0	136.0	0.03	0.01							
Melba	MF 70			ground conditions good;				136.0	137.0	0.03	0.01							
Melba	MF 70			undulating upper contact, sharp lower contact 45° CA;				137.0	138.0	0.02	<0.01							
Melba	MF 70							138.0	139.0	0.03	<0.01							
Melba	MF 70	141.5	196.7	SEDIMENTS:	141.5	196.7	100	139.0	140.0	0.03	0.01							
Melba	MF 70			dark gray, monotonous fine-medium grained siltstone and				140.0	141.5	0.02	0.01							
Melba	MF 70			sandstone;														
Melba	MF 70			BCA 70-80°;														
Melba	MF 70			154.7m: 400mm altered gabbro body;														
Melba	MF 70			minor wide spaced quartz-carbonate veins with minor sulfide;														
Melba	MF 70			182.0m: 400mm altered gabbro dike;														

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 70

Melba	MF 70	196.7	261.5	GABBRO:	196.7	261.5	100	196.7	198.0	0.03	0.02				
Melba	MF 70			dark gray medium-coarse grained gabbro;				198.0	199.0	<0.01	<0.01				
Melba	MF 70			generally strongly talc-carbonate alteration with soft dark green				199.0	200.0	0.01	<0.01				
Melba	MF 70			appearance in places, and often spotty;				200.0	201.0	0.01	<0.01				
Melba	MF 70			upper and lower margins (5-10m) contain significant sulfides;				201.0	202.0	<0.01	<0.01				
Melba	MF 70			middle section only rare-trace sulfides;				202.0	203.0	<0.01	<0.01				
Melba	MF 70			upper contact with gritty sediments difficult to measure,				203.0	204.0	<0.01	<0.01				
Melba	MF 70			possibly 90° CA; lower contact 45° CA;				204.0	205.0	<0.01	<0.01				
Melba	MF 70							205.0	206.0	<0.01	<0.01				
Melba	MF 70	261.5	321.0	SEDIMENTS with carbonate veining:				206.0	207.0	<0.01	0.02				
Melba	MF 70			dark gray -brown-black siltstone and sandstone;				207.0	208.0	<0.01	<0.01				
Melba	MF 70			BCA 70-80°;				208.0	209.0	<0.01	<0.01				
Melba	MF 70			261.5-275.5m: dark gray siltstone-sandstone; minor carbonate				209.0	210.0	<0.01	<0.01				
Melba	MF 70			veining;				210.0	211.0	<0.01	<0.01				
Melba	MF 70			ground conditions very good;				211.0	212.0	<0.01	0.01				
Melba	MF 70			275.5-305.7m: as above but steady increase down hole in				212.0	213.0	<0.01	<0.01				
Melba	MF 70			carbonate and quartz-carbonate veining as thin anastomosing				213.0	214.0	0.01	<0.01				
Melba	MF 70			veins and thicker veins, both concordant and discordant with				214.0	215.0	0.01	<0.01				
Melba	MF 70			bedding;				215.0	216.0	0.01	<0.01				
Melba	MF 70			several thicker veins up to 100mm carry significant Pb-Zn and				216.0	217.0	0.02	<0.01				
Melba	MF 70			chalcopyrite; (note: chalcoc is unusual in these vein systems)				217.0	218.0	0.02	<0.01				
Melba	MF 70			297.9m: 200mm carbonate vein;				218.0	219.0	0.02	<0.01				
Melba	MF 70			298.3m: 200mm carbonate vein;				219.0	220.0	0.02	<0.01				
Melba	MF 70			305.7-313.6m: increase in dark gray-black shales interbedded				220.0	221.0	0.02	<0.01				
Melba	MF 70			with siltstone;				221.0	222.0	0.02	<0.01				
Melba	MF 70			core becoming more fractured with thin carbonate films and				222.0	223.0	0.02	<0.01				
Melba	MF 70			veins on fractures;				223.0	224.0	0.02	<0.01				
Melba	MF 70			313.4m: 150mm carbonate vein with abundant coarse galena				224.0	225.0	0.02	<0.01				
Melba	MF 70			and lesser chalcopyrite;				225.0	226.0	0.02	<0.01				
Melba	MF 70			313.6-321.0m: dark gray siltstone;				226.0	227.0	0.02	<0.01				
Melba	MF 70			moderately good ground;				227.0	228.0	0.02	<0.01				
								228.0	229.0	0.02	<0.01				
				END of HOLE				229.0	230.0	0.03	<0.01				
								230.0	231.0	0.03	<0.01				
								231.0	232.0	0.04	<0.01				
								232.0	233.0	0.03	<0.01				
								233.0	234.0	0.04	<0.01				
								234.0	235.0	0.03	<0.01				
								235.0	236.0	0.02	<0.01				
								236.0	237.0	0.02	<0.01				
								237.0	238.0	0.02	<0.01				
								238.0	239.0	0.02	<0.01				
								239.0	240.0	0.02	<0.01				
								240.0	241.0	0.02	<0.01				
								241.0	242.0	0.02	<0.01				
								242.0	243.0	0.02	<0.01				
								243.0	244.0	0.01	<0.01				
								244.0	245.0	0.01	<0.01				
								245.0	246.0	0.01	<0.01				
								246.0	247.0	0.01	<0.01				
								247.0	248.0	0.01	<0.01				
								248.0	249.0	0.02	0.01				
								249.0	250.0	0.03	<0.01				
								250.0	251.0	0.07	0.02				
								251.0	252.0	0.13	0.03				
								252.0	253.0	0.18	0.05				
								253.0	254.0	0.17	0.06				
								254.0	255.0	0.21	0.04				
								255.0	256.0	0.20	0.06				
								256.0	257.0	0.24	0.09				
								257.0	258.0	0.10	0.02				
								258.0	259.0	0.13	0.03				
								259.0	260.0	0.22	0.07				
								260.0	261.5	0.40	0.18				

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 71

Project	Hole ID	Log		Description	Recovery			Assays									
		From	To		From	To	%	From	To	% Ni	% Cu	% S	Ag	% Pb	% Zn		
Melba	MF 71	0.0	7.8	GABBRO:	0.0	1.0	20										
Melba	MF 71			severely weathered coarse grained gabbro;	1.0	2.7	60										
Melba	MF 71			first metre iron rich pseudo-gossan;	2.7	4.0	55										
Melba	MF 71			upper six metres weathered to clay and disaggregating gabbro;	4.0	5.0	30										
Melba	MF 71			not strongly limonitic and therefore probably not sulfidic;	5.0	6.0	80										
Melba	MF 71			6.0-7.8m: still strongly weathered but more coherent with minor	6.0	7.6	55										
Melba	MF 71			limonite staining;													
Melba	MF 71			some core loss;													
Melba	MF 71			contact with sediments below very broken and rubbly;													
Melba	MF 71	7.8	23.6	SEDIMENTS:	7.6	8.8	90										
Melba	MF 71			interbedded weathered gray and hematitic lithic sediments;	8.8	18.3	100										
Melba	MF 71			7.8-11.5m: light gray, medium grained siltstone-sandstone;	18.3	20.0	60										
Melba	MF 71			BCA 70°;	20.0	21.5	65										
Melba	MF 71			strongly weathered, core very broken;	21.5	22.7	80										
Melba	MF 71			11.5-18.3m: reddish-brown hematitic finer grained mudstone-	22.7	23.9	40										
Melba	MF 71			siltstone;													
Melba	MF 71			BCA 60-70°;													
Melba	MF 71			core still weathered and broken, rubbly in places;													
Melba	MF 71			18.3-23.6m: light orange-brown siltstone-mudstone;													
Melba	MF 71			BCA 70°;													
Melba	MF 71			soft and broken;													
Melba	MF 71			significant core losses on contact with gabbro below;													
Melba	MF 71	23.6	33.5	WEATHERED GABBRO:	23.9	25.0	50	23.6	25.0	0.08	0.03	<0.02					
Melba	MF 71			severely altered and weathered medium-coarse grained gabbro;	25.0	26.6	75	25.0	26.5	0.12	0.04	<0.02					
Melba	MF 71			strongly limonitic-difficult to say if limonite after sulfides or	26.6	28.0	65	26.5	28.0	0.09	0.01	<0.02					
Melba	MF 71			weathering of ferromagnesium minerals;	28.0	29.5	70	28.0	30.0	0.04	0.02	<0.02					
Melba	MF 71			core very soft and broken;	29.5	30.8	70	30.0	31.3	0.03	0.01	0.92					
Melba	MF 71			major core losses on FW;	30.8	31.9	85	31.3	35.1	0.06	0.02	<0.02					
Melba	MF 71	33.5	54.0	INTERBEDDED GRAY and HEMATITIC SEDIMENTS:	31.9	33.1	60										
Melba	MF 71			interbedded light and dark gray medium-coarse grained	33.1	33.5	10										
Melba	MF 71			sediments with reddish-brown hematitic fine grained sediments;	33.5	34.0	20										
Melba	MF 71			sediments with reddish-brown hematitic fine grained sediments;	34.0	34.7	70										
Melba	MF 71			core becoming fresh but still quite broken to 48m with some	34.7	36.1	90										
Melba	MF 71			rubbly sections;	36.1	41.2	100										
Melba	MF 71			33.5-44.7m: light-dark gray medium-coarse grained siltstone-	41.2	43.0	85										
Melba	MF 71			sandstone with narrow dark gray shale beds;	43.0	54.0	100										
Melba	MF 71			BCA 70-80°;													
Melba	MF 71			core broken, rubbly in places;													
Melba	MF 71			44.7-54.0m: hematitic fine grained sediments interbedded with													
Melba	MF 71			light gray fine-medium grained sediments;													
Melba	MF 71			BCA 60-70°;													
Melba	MF 71			grades into.....													
Melba	MF 71	54.0	82.0	HEMATITIC SEDIMENTS:	54.0	82.0	100										
Melba	MF 71			reddish-brown fine-medium grained hematitic sediments;													
Melba	MF 71			BCA 60-70°, occasionally lower;													
Melba	MF 71			minor carbonate veining;													
Melba	MF 71			ground conditions very good;													
Melba	MF 71			grades into.....													
Melba	MF 71	82.0	86.0	GRAY SEDIMENTS:	82.0	86.0	100										
Melba	MF 71			light gray fine-medium grained sediments;													
Melba	MF 71			massive with no distinct bedding;													
Melba	MF 71	86.0	89.4	GABBRO:	86.0	89.4	100										
Melba	MF 71			dark gray medium-coarse grained gabbro;													
Melba	MF 71			extensive carbonate-talc alteration of gabbro and minor fine													
Melba	MF 71			carbonate veining;													
Melba	MF 71			rare-trace disseminated sulfides;													
Melba	MF 71			upper and lower contacts indistinct, and possible fine grained													
Melba	MF 71			chilled margins;													
Melba	MF 71			ground conditions good;													
Melba	MF 71	89.4	108.4	HEMATITIC SEDIMENTS:	89.4	108.4	100										
Melba	MF 71			massive reddish-brown hematitic fine-medium grained siltstone-													
Melba	MF 71			sandstone, grading into light gray medium-coarse grained													
Melba	MF 71			siltstone-sandstone below 103m;													
Melba	MF 71			ground conditions moderately good, few broken zones;													
Melba	MF 71			BCA not obvious;													
Melba	MF 71	108.4	110.1	GABBRO:	108.4	110.1	100										
Melba	MF 71			dark gray medium-coarse grained gabbro;													
Melba	MF 71			strong pervasive talc-carbonate alteration;													
Melba	MF 71			no sulfides observed;													
Melba	MF 71			upper contact sharp but broken;													
Melba	MF 71			lower contact marked by 100mm quartz vein and rubbly;													
Melba	MF 71	110.1	134.5	GRAY SEDIMENTS:	110.1	134.5	100										
Melba	MF 71			light gray fine-medium grained mudstone-siltstone with minor													
Melba	MF 71			dark gray shaley beds;													
Melba	MF 71			111.0m: quartz-carbonate-galena veining with gabbro clasts at													
Melba	MF 71			111.1m;													
Melba	MF 71			(note: 110.1-111.1m; looks like tube was emptied back to front)													
Melba	MF 71			114.1-114.5m: coarse grained altered gabbro with shallow HW													
Melba	MF 71			and steep FW contacts;													
Melba	MF 71			BCA variable but generally 30-45°; (ie) steeply dipping sediments													
Melba	MF 71			ground conditions moderately good; few broken zones;				134.5	136.0	0.03	0.01	<0.02					
Melba	MF 71							136.0	137.0	0.07	0.04	<0.02					
Melba	MF 71	134.5	140.0	GABBRO:	134.5	140.0	100	137.0	138.0	0.12	0.08	0.02					
Melba	MF 71			dark gray medium-coarse grained gabbro with pervasive talc-				138.0	139.0	0.13	0.07	<0.02					
Melba	MF 71			carbonate alteration;				139.0	140.0	0.17	0.10	<0.02					

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

Project	Hole ID	Log		Description	Recovery			Assays												
		From	To		From	To	%	From	To	% Ni	% Cu	% S								
MELBA	MF72	0	4	Light brown clay zone, very brittle. Heavily weathered.	0.0	3.0	50.0													
MELBA	MF72	4	8.4	Weathered light green/grey gritty fine grained quartz sandstone with minor siltstone laminations. Minor remanent mica grains and weathered feldspar grained.	3.0	4.0	0.0													
MELBA	MF72			Core extremely broken.	4.0	4.5	100.0													
MELBA	MF72	8.4	8.6	Small puggy fault zone. Very fine grained puggy silty fault zone. Core extremely broken	4.5	5.3	100.0													
MELBA	MF72			Weathered gritty fine grained quartz sandstone with thinly bedded siltstone beds. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	5.3	7.0	94.1													
MELBA	MF72	8.6	12	Puggy fault zone, core extremely broken with abundant clays.	7.0	8.5	60.0													
MELBA	MF72			Interbedded pale green/grey fine grained siltstone and medium grained sandstone. Graded and massive beds. Beds are grading/younging up hole. At 16m Bd is 40.	8.5	10.0	53.3													
MELBA	MF72	12	13.1	Remanent feldspar grains and mica grains. Predominately a gritty quartz sandstone.	10.0	11.0	0.0													
MELBA	MF72			Puggy fault zone, core extremely broken with abundant clays. Ft at 40	11.0	12.0	80.0													
MELBA	MF72	13.1	20.2	Weathered gritty fine grained quartz sandstone with thinly bedded siltstone beds. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	12.0	13.0	40.0													
MELBA	MF72			Interbedded pale green/grey fine grained siltstone and medium grained sandstone. Graded and massive beds. Beds are grading/younging up hole. At 16m Bd is 40.	13.0	14.0	70.0													
MELBA	MF72	20.2	20.6	Remanent feldspar grains and mica grains. Predominately a gritty quartz sandstone.	14.0	14.5	60.0													
MELBA	MF72			Puggy fault zone, core extremely broken with abundant clays. Ft at 40	14.5	15.7	91.7													
MELBA	MF72	20.6	23.8	Weathered gritty fine grained quartz sandstone with thinly bedded siltstone beds. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	15.7	17.2	80.0													
MELBA	MF72			Interbedded pale green/grey fine grained siltstone and medium grained sandstone. Graded and massive beds. Beds are grading/younging up hole. At 16m Bd is 40.	17.2	19.2	90.0													
MELBA	MF72	23.8	25	Remanent feldspar grains and mica grains. Predominately a gritty quartz sandstone.	19.2	20.6	85.7													
MELBA	MF72			Puggy fault zone, core extremely broken with abundant clays. Ft at 40	20.6	22.0	57.1													
MELBA	MF72	20.6	23.8	Weathered gritty fine grained quartz sandstone with thinly bedded siltstone beds. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	22.0	23.0	70.0													
MELBA	MF72			Puggy fault zone, core extremely broken with abundant clays. Ft at 40	23.0	25.0	55.0													
MELBA	MF72	20.6	23.8	Weathered gritty fine grained quartz sandstone with thinly bedded siltstone beds. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	25.0	26.5	53.3													
MELBA	MF72			Large graphitic black shale fault zone. Minor carbonate present and disseminated pyrite. Core extremely puggy and broken.	26.5	27.8	53.8													
MELBA	MF72	23.8	25	Interbedded pale green/grey fine grained siltstone and fine graded sandstone, minor laminae of black graphitic shale. Minor carbonate veinlets. BCA 85. Minor folding present.	27.8	29.0	83.3													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	29.0	30.0	60.0													
MELBA	MF72	25	37.7	Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	30.0	31.0	30.0													
MELBA	MF72			Interbedded pale green/grey fine grained siltstone and fine graded sandstone, minor laminae of black graphitic shale. Minor carbonate veinlets. BCA 85. Minor folding present.	31.0	31.6	33.3													
MELBA	MF72	25	37.7	Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	31.6	32.8	50.0													
MELBA	MF72			Large graphitic black shale fault zone. Minor carbonate present and disseminated pyrite. Core extremely puggy and broken.	32.8	34.0	33.3													
MELBA	MF72	25	37.7	Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	34.0	34.5	30.0													
MELBA	MF72			Large graphitic black shale fault zone. Minor carbonate present and disseminated pyrite. Core extremely puggy and broken.	34.5	35.1	25.0													
MELBA	MF72	25	37.7	Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	35.1	35.7	25.0													
MELBA	MF72			Large graphitic black shale fault zone. Minor carbonate present and disseminated pyrite. Core extremely puggy and broken.	35.7	36.4	0.0													
MELBA	MF72	37.7	40.2	Large graphitic black shale fault zone. Minor carbonate present and disseminated pyrite. Core extremely puggy and broken.	36.4	36.8	0.0													
MELBA	MF72			Interbedded pale green/grey fine grained siltstone and fine graded sandstone, minor laminae of black graphitic shale. Minor carbonate veinlets. BCA 85. Minor folding present.	36.8	37.0	0.0													
MELBA	MF72	40.2	41.5	Interbedded pale green/grey fine grained siltstone and fine graded sandstone, minor laminae of black graphitic shale. Minor carbonate veinlets. BCA 85. Minor folding present.	37.0	37.3	0.0													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	37.3	38.0	0.0													
MELBA	MF72	40.2	41.5	Interbedded pale green/grey fine grained siltstone and fine graded sandstone, minor laminae of black graphitic shale. Minor carbonate veinlets. BCA 85. Minor folding present.	38.0	38.6	50.0													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	38.6	39.2	33.3													
MELBA	MF72	41.5	43.1	Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	39.2	40.0	50.0													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	40.0	41.5	53.3													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	41.5	43.0	100.0													
MELBA	MF72			Black graphitic/pyritic shales. Thinly laminated. BCA 73. Abundant graphitic faces. Minor vugs with abundant fine cubic pyrite cubes. Core broken with abundant folding.	43.0	44.5	86.7													
MELBA	MF72	43.1	44.6	Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	44.5	46.0	73.3													
MELBA	MF72			Weathered gritty pale green/grey fine grained quartz sandstone with thinly bedded siltstone beds and fine graphitic/pyritic black shale laminations. Minor remanent weathered mica grains and feldspars. Core tends to be leached and broken.	46.0	47.0	90.0													
MELBA	MF72			Small puggy fault zone, core extremely broken with abundant clays.	47.0	48.1	63.6													
MELBA	MF72	44.6	44.9	Small puggy fault zone, core extremely broken with abundant clays.	48.1	49.0	100.0													
MELBA	MF72			Small puggy fault zone, core extremely broken with abundant clays.	49.0	51.6	73.1													
MELBA	MF72	44.6	44.9	Small puggy fault zone, core extremely broken with abundant clays.	51.6	52.6	60.0													
MELBA	MF72			Small puggy fault zone, core extremely broken with abundant clays.	52.6	53.6	50.0													
MELBA	MF72	44.9	87.9	Weathered interbedded pale/light green/grey siltstone and minor fine grained sandstone. Minor laminae of graphitic/pyritic black shale. Abundant sheared small puggy faults upto 2cm. BCA at 46m 52. BCA at 59m 68. Minor small vugs present. Minor Cb veinlets. Minor Py present. BCA at 80.7m 58	53.6	54.2	50.0													
MELBA	MF72			Weathered interbedded pale/light green/grey siltstone and minor fine grained sandstone. Minor laminae of graphitic/pyritic black shale. Abundant sheared small puggy faults upto 2cm. BCA at 46m 52. BCA at 59m 68. Minor small vugs present. Minor Cb veinlets. Minor Py present. BCA at 80.7m 58	54.2	55.0	87.5													
MELBA	MF72			Small puggy/gritty fault zone. Minor carbonate veining. core extremely broken. Ft 70	55.0	56.0	100.0													
MELBA	MF72			Small puggy/gritty fault zone. Minor carbonate veining. core extremely broken. Ft 70	56.0	57.1	72.7													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	57.1	58.0	55.6													
MELBA	MF72	87.9	89.2	Small puggy/gritty fault zone. Minor carbonate veining. core extremely broken. Ft 70	58.0	59.4	71.4													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	59.4	61.0	56.3													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	61.0	62.0	90.0													
MELBA	MF72	89.2	90.9	Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	62.0	62.3	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	62.3	62.8	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	62.8	63.9	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present.	63.9	65.6	17.6													
MELBA	MF72			Small broken fault zone. Minor 2cm puggy shears.	65.6	66.1	0.0													
MELBA	MF72	90.9	92.9	Small broken fault zone. Minor 2cm puggy shears.	66.1	68.0	0.0													
MELBA	MF72			Disrupted pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present.	68.0	69.0	30.0													
MELBA	MF72			Disrupted pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present.	69.0	70.0	50.0													
MELBA	MF72			Small graphitic/pyritic puggy fault zone. Core extremely broken.	70.0	71.0	80.0													
MELBA	MF72	94.4	94.6	Small graphitic/pyritic puggy fault zone. Core extremely broken.	71.0	71.9	100.0													
MELBA	MF72			Small graphitic/pyritic puggy fault zone. Core extremely broken.	71.9	72.2	100.0													
MELBA	MF72			Small graphitic/pyritic puggy fault zone. Core extremely broken.	72.2	72.8	100.0													
MELBA	MF72	94.6	97.2	Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present. BCA at 96.5m 72.	72.8	73.6	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present. BCA at 96.5m 72.	73.6	74.9	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present. BCA at 96.5m 72.	74.9	76.0	100.0													
MELBA	MF72			Dark black graphitic/pyritic shale. Finely laminated with thin bands of pyrite upto 1mm thick. Abundant carbonate veinlets. Minor thick laminations of fine grained sandstone. Minor blebs of pyrite present. Minor vugs present. BCA at 96.5m 72.	76.0	79.0	100.0													
MELBA	MF72	97.2	102.1	Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	79.0	80.0	100.0													
MELBA	MF72			Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	80.0	81.9	100.0													
MELBA	MF72			Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	81.9	83.8	100.0													
MELBA	MF72			Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	83.8	85.2	85.7													
MELBA	MF72			Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	85.2	85.8	100.0													
MELBA	MF72			Disrupted and graded pale green fine grained sandstone with silty tops. Minor carbonate veinlets. Minor brecciated sandstone filled with a mudstone matrix. Minor fine grained py present. BCA at 100.4m 69.	85.8	86.4	100.0													
MELBA	MF72	102.1	103	Disrupted dark black graphitic/pyritic shale, minor small clast of siltstone and minor graded sandstone beds present.	86.4	87.4	80.0													
MELBA	MF72			Disrupted dark black graphitic/pyritic shale, minor small clast of siltstone and minor graded sandstone beds present.	87.4	89.2														

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

Project	Hole ID	Log		Description	Recovery			Assays										
		From	To		From	To	%	From	To	% Ni	% Cu	% Pb	% Zn	% S				
Melba	MF73	0	8	Light brown/orange clay zone, very brittle. Heavily weathered. Minor haematite and goethite staining.	0.0	3.0	66.7											
Melba	MF73	8	12	Extremely leached grey pyritic mudstone and fine grained siltstone. Core extremely broken with abundant rubble.	3.8	5.0	25.0											
Melba	MF73			Abundant puggy zones, remanent fault zone.	6.0	7.0	40.0											
Melba	MF73	12	14.3	Light brown/orange clay zone, very brittle. Heavily weathered. Minor haematite and goethite staining.	7.0	8.0	80.0											
Melba	MF73			Minor puggy zones	8.0	9.0	60.0											
Melba	MF73	14.3	16.6	Light grey/pale green fine grained leached siltstone. with minor laminations of mudstone. Minor puggy zones.	9.0	10.0	50.0											
Melba	MF73			No visible sulphides present.	10.0	11.0	50.0											
Melba	MF73			Sheared/faulted zone. Abundant puggy brecciated seams, core extremely broken. Abundant oxide zones.	11.0	12.0	40.0											
Melba	MF73	16.6	25	Predominately light grey siltstone with minor mudstone laminae. Minor haematite bands present.	12.0	13.0	90.0											
Melba	MF73			Interbedded light grey and orange weathered siltstone and fine grained sandstone. Abundant iron stained joints and shears. Minor goethite stained joints. Core extremely brittle.	13.0	13.9	55.6											
Melba	MF73	25	28.4	Quartz fault zone. Abundant goethite staining within a quartz fault zone. Minor chlorite staining present. Core tends to be slightly vuggy with visible crystal structure.	13.9	15.0	72.7											
Melba	MF73			Extremely broken/sheared fault zone. Abundant puggy and clay seams. Abundant orange clays and goethite stained joints/shears. Predominately fine grained siltstone and minor laminae of dark mudstone. No visible sulphides.	15.0	16.0	70.0											
Melba	MF73	28.4	29.3	Pale green, fine grained massive sandstone and thickly laminated dark grey siltstone beds. BCA at 34.2m is 52. Minor goethite veinlets present. Core fairly brittle.	16.0	17.5	66.7											
Melba	MF73			Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	17.5	18.8	61.5											
Melba	MF73	29.3	32.1	Finely laminated black graphitic/slightly pyritic shale. Core fairly brittle. Some beds tend to be disrupted. BCA at 37.3m is 43.	18.8	20.5	58.8											
Melba	MF73			Finely laminated black graphitic/slightly pyritic shale. Core fairly brittle. Some beds tend to be disrupted. BCA at 37.3m is 43.	20.5	22.0	53.3											
Melba	MF73	32.1	35.1	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	22.0	23.5	40.0											
Melba	MF73			Finely laminated black graphitic/slightly pyritic shale. Core fairly brittle. Some beds tend to be disrupted. BCA at 37.3m is 43.	23.5	24.1	50.0											
Melba	MF73	35.1	37	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	24.1	25.0	44.4											
Melba	MF73			Finely laminated black graphitic/slightly pyritic shale. Core fairly brittle. Some beds tend to be disrupted. BCA at 37.3m is 43.	25.0	27.0	45.0											
Melba	MF73	37	37.5	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	27.0	27.8	50.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	27.8	29.0	58.3											
Melba	MF73	37.5	38.5	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	29.0	30.0	40.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	29.0	30.0	40.0											
Melba	MF73	38.5	38.8	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	30.0	31.0	60.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	31.0	32.0	90.0											
Melba	MF73	38.8	42.3	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	32.0	33.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	33.0	34.0	90.0											
Melba	MF73	42.3	44.9	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	34.0	35.0	50.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	35.0	36.0	40.0											
Melba	MF73	44.9	51	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	36.0	37.0	40.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	37.0	39.0	95.0											
Melba	MF73	51	52.9	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	39.0	40.0	40.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	40.0	41.0	20.0											
Melba	MF73	52.9	56.4	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	41.0	42.0	40.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	42.0	43.0	60.0											
Melba	MF73	56.4	57	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	43.0	44.0	30.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	44.0	44.9	88.9											
Melba	MF73	57	78	Small broken puggy fault zone. Abundant finely laminated mudstone and siltstone. Core tends to be fairly brittle. Minor goethite joints and shears.	44.9	46.0	36.4											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	46.0	47.0	90.0											
Melba	MF73	78	78.4	Small quartz vuggy fault zone.	47.0	48.0	50.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	48.0	49.0	90.0											
Melba	MF73	78.4	90.5	Small quartz vuggy fault zone.	48.0	49.0	90.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	49.0	50.5	73.3											
Melba	MF73	90.5	94.6	Small quartz vuggy fault zone.	50.5	51.5	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	51.5	52.7	75.0											
Melba	MF73	94.6	95.3	Small quartz vuggy/bucky fault zone. No sulphides present.	52.7	53.9	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	53.9	55.0	63.6											
Melba	MF73	95.3	161.9	Small quartz vuggy/bucky fault zone. No sulphides present.	55.0	56.0	50.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	56.0	57.0	50.0											
Melba	MF73	161.9	167.6	Small quartz vuggy/bucky fault zone. No sulphides present.	57.0	58.0	80.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	58.0	59.0	80.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	59.0	60.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	60.0	61.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	61.0	62.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	62.0	63.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	63.0	64.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	64.0	65.6	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	65.6	67.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	67.0	68.8	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	68.8	70.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	70.0	73.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	73.0	74.4	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	74.4	75.8	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	75.8	77.9	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	77.9	79.4	93.3											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	79.4	82.0	96.2											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	82.0	82.9	88.9											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	82.9	85.0	100.0											
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	85.0	86.8	100.0	86.5	87.5	0.011	0.009	n/a	n/a	0.20				
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	86.8	88.4	100.0	87.5	88.5	0.01	0.003	n/a	n/a	<0.02				
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	88.4	89.8	100.0	88.5	89.5	0.011	0.002	n/a	n/a	0.02				
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	89.8	90.7	100.0	89.5	90.5	0.01	0.004	n/a	n/a	0.06				
Melba	MF73			Extremely broken/sheared fault zone. Abundant black graphitic mudstones and fine grained sandstones. Mudstone laminations tend to be disrupted. Core tends to be slightly leached and brittle.	90.7	92.1	92.9	90.5										

COMPANY ALLEGIANCE MINING NL
 PROJECT MELBA FLATS EL 43/1992
 HOLE NUMBER MF74

Commenced	30/10/06
Completed	16-Nov-06
Logged by	Mueller
Drilled by	Almac

Collar Details

Grid	GDA
Easting	366539.9
Northing	5367825.2
Elevation	2214.2
Dip	-70
Bearing	300

LENGTH (m)	452
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Hole Size

To (m)	Size
69.5	HQ
69.5-EOH	NQ

Major core losses:

From	To	% rec

Assay Summary

Rock Type	From	To	% Ni	% Cu	% Pb	% Zn
Silt/Sandstone	213.8m	221.8m	0.01	0.01	0.22	0.78
Gabbro	94m	95.6m	0.32	0.22		
Fault	244.8m	246.2m	<0.01	<0.01	0.02	0.77

Down Hole Survey

Depth	Dip	Mag Br	Grid Brg
50	-70	292	
100	-70	293	
150	-69	290	
200	-69	295	
250	-68	294	
300	-69	345	
350	-68	299	
400	-68	300	
450	-68	300	

Purpose of Hole

Deeper hole to define gabbro units.
 North Cuni

Comments on Completion

Assays

213.8m-221.8m
 8m@0.78%Zn, 0.22%Pb, 0.01%Ni, 0.01%Cu, 0.51%S.
 94m-95.6m
 1.6m@0.32%Ni, 0.22%Cu, 1.0%S.
 244.8m-246.2m
 1.4m@0.77%Zn, 0.02%Pb, <0.01%Ni, <0.01%Cu, 0.49%S.

Hole Completion Condition

Collar pipe inserted

Notes on Surveys

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

Project	Hole ID	Log		Description	Recovery				%	Assays		Ni ppm	Cu ppm	Pb ppm	Zn ppm	S %
		From	To		From	To	To	To								
MELBA	MF74	0	11	Medium grained siltstone with minor fine grained sandstone beds weathered to orange clay. Broken	0.0	2.6	2.6	10.0	100.0							
MELBA	MF74			puggy ground. Minor geothite joints and minor haematite staining. 7.5m - 8.7m Light grey/black fine grained siltstone with thick laminations of black mudstone.	2.6	3.0	0.4	0.4	100.0							
MELBA	MF74			ground extremely puggy and broken. 8.7-11m medium grained siltstone with minor fine grained sandstone	3.0	4.7	0.7	1.7	41.2							
MELBA	MF74			beds weathered to orange clay with geothite joints and minor haematite staining. BCA at 14m is 52.	4.7	5.9	1.1	1.2	91.7							
MELBA	MF74			Light grey medium grained siltstone with minor sandstone beds. Core extremely broken with minor puggy shears. Sandstone tends to be fairly massive.	5.9	7.0	0.7	1.1	63.6							
MELBA	MF74	11	13.3	Light grey pale green massive sandstone with minor siltstone laminations. Minor disseminated Py present.	7.0	8.0	1	1.0	100.0							
MELBA	MF74			Core tends to be friable and easily broken. BCA at 13.4m is 34.	8.0	9.0	0.7	1.0	70.0							
MELBA	MF74			Large puggy broken fault zone. Core extremely broken and friable. Core extremely soft and broken. Abundant puggy zones within a pale green/grey sandstone with black mudstone laminations No visible sulphides.	9.0	10.0	1	1.0	100.0							
MELBA	MF74	13.3	16.7	Interbedded pale grey/green sandstone with fine laminations of dark black mudstone. Minor disseminated pyrite within mudstone beds.	10.0	11.5	1.3	1.5	86.7							
MELBA	MF74			Small puggy fault zone within a pale green/grey sandstone. Minor black pyritic mudstone laminations. Minor clays present. Upper contact Ft 43.	11.5	13.0	1.1	1.5	73.3							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	13.0	14.5	1.4	1.5	93.3							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	14.5	16.0	1.3	1.5	86.7							
MELBA	MF74	16.7	19.1	Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	16.0	17.5	1.2	1.5	80.0							
MELBA	MF74			Thickly laminated black pyritic/graphitic mudstone and fine grained light grey siltstone. Abundant small shears. BCA at 24m is 54. Siltstone tends to be fairly massive.	17.5	19.0	1	1.5	66.7							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	19.0	20.5	1.4	1.5	93.3							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	20.5	21.5	0.7	1.0	70.0							
MELBA	MF74	19.1	20	Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	21.5	22.2	0.5	0.7	71.4							
MELBA	MF74			Thickly laminated black pyritic/graphitic mudstone and fine grained light grey siltstone. Abundant small shears. BCA at 24m is 54. Siltstone tends to be fairly massive.	22.2	23.2	0.7	1.0	70.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	23.2	25.0	1.4	1.8	77.8							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	25.0	25.9	0.9	0.9	100.0							
MELBA	MF74	20	21.6	Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	25.9	27.2	1.3	1.3	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	27.2	28.0	0.8	0.8	100.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	28.0	29.2	0.5	1.2	41.7							
MELBA	MF74	21.6	22.6	Thickly laminated black pyritic/graphitic mudstone and fine grained light grey siltstone. Abundant small shears. BCA at 24m is 54. Siltstone tends to be fairly massive.	29.2	31.0	0.7	1.8	38.9							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	31.0	31.9	0.7	0.9	77.8							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	31.9	33.0	0.8	1.1	72.7							
MELBA	MF74	22.6	23.4	Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	33.0	34.0	0.7	1.0	70.0							
MELBA	MF74			Thickly laminated black pyritic/graphitic mudstone and fine grained light grey siltstone. Abundant small shears. BCA at 24m is 54. Siltstone tends to be fairly massive.	34.0	35.0	0.4	1.0	40.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	35.0	36.0	1	1.0	100.0							
MELBA	MF74	22.6	23.4	Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present.	36.0	37.0	1	1.0	100.0							
MELBA	MF74			Thickly laminated black pyritic/graphitic mudstone and fine grained light grey siltstone. Abundant small shears. BCA at 24m is 54. Siltstone tends to be fairly massive.	37.0	38.5	1	1.5	66.7							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	38.5	39.7	1.1	1.2	91.7							
MELBA	MF74	23.4	24.6	Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	39.7	40.4	0.6	0.7	85.7							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	40.4	41.6	1.2	1.2	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	41.6	43.0	0.9	1.4	64.3							
MELBA	MF74	24.6	25.9	Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	43.0	44.0	1	1.0	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	44.0	45.0	0.8	1.0	80.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	45.0	46.0	1	1.0	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Minor geothite joints present.	46.0	46.7	0.7	0.7	100.0							
MELBA	MF74	25.9	28.2	Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present and abundant clay formation.	46.7	47.7	1	1.0	100.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	47.7	49.0	1	1.3	76.9							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	49.0	49.8	0.8	0.8	100.0							
MELBA	MF74	28.2	30.6	Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone laminations present and abundant clay formation.	49.8	52.0	2.1	2.2	95.5							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained sandstone. Minor black mudstone laminations present and abundant clay formation.	52.0	53.9	1.9	1.9	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	53.9	55.0	1.1	1.1	100.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	55.0	57.2	2	2.2	90.9							
MELBA	MF74	30.6	31.2	Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	57.2	58.0	0.8	0.8	100.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	58.0	59.4	1.2	1.4	85.7							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	59.4	60.4	0.9	1.0	90.0							
MELBA	MF74	31.2	31.8	Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present and abundant clay formation.	60.4	61.3	0.9	0.9	100.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	61.3	62.1	0.8	0.8	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	62.1	63.4	1.2	1.3	92.3							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	63.4	64.5	1	1.1	90.9							
MELBA	MF74	31.8	34	Extremely broken interbedded light grey siltstone and medium pale green/grey sandstone. Minor puggy zones upto 10cm. Core extremely brittle. No visible sulphides.	64.5	67.0	2.7	2.5	108.0							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	67.0	69.5	2.5	2.5	100.0							
MELBA	MF74			Massive pale green/grey medium sandstone with minor disseminated pyrite present. Core tends to be slightly friable and soft.	69.5	71.9	2.2	2.4	91.7							
MELBA	MF74			Small puggy fault zone within a pale green/grey medium grained siltstone. Minor black mudstone disrupted laminations present. Minor geothite/iron stained joints.	71.9	73.0	1.1	1.1	100.0							
MELBA	MF74	34	35.4	Pale green coarse grained gabbro. Extremely brittle and broken. Minor sphalerite? present and trace sulphides predominantly within veinlets. Core tends to be extremely weathered. Black puggy veinlets present.	73.0	74.2	2.7	1.2	225.0	34.0	35.0	120	90	n/a	n/a	0.10
MELBA	MF74			Pale green olivine crystals and formation of white/cream clay minerals.	74.2	76.0	1.8	1.8	100.0	35.0	36.0	100	100	n/a	n/a	0.17
MELBA	MF74			Small weathered puggy fault. Core extremely brittle and broken.	76.0	77.0	1	1.0	100.0	36.0	37.0	100	100	n/a	n/a	0.23
MELBA	MF74			Small weathered puggy fault. Core extremely brittle and broken.	77.0	78.7	1.6	1.7	94.1	37.0	38.0	110	110	n/a	n/a	0.26
MELBA	MF74			Small weathered puggy fault. Core extremely brittle and broken.	78.7	81.7	3	3.0	100.0	38.0	39.0	130	80	n/a	n/a	0.06
MELBA	MF74			Small weathered puggy fault. Core extremely brittle and broken.	81.7	84.7	3	3.0	100.0	39.0	40.0	160	90	n/a	n/a	0.07
MELBA	MF74	35.4	36	Small weathered puggy fault. Core extremely brittle and broken.	84.7	87.1	2.4	2.4	100.0	40.0	41.0	320	100	n/a	n/a	<0.02
MELBA	MF74			Small weathered puggy fault. Core extremely brittle and broken.	87.1	88.8	1.5	1.7	88.2	41.0	42.0	490	130	n/a	n/a	<0.02
MELBA	MF74	36	43.9	Pale green coarse grained gabbro. Extremely brittle and broken with abundant small shears Minor sphalerite? present and trace sulphides predominantly within veinlets. Core tends to be extremely weathered.	88.8	90.7	1.9	1.9	100.0	42.0	43.9	440	160	n/a	n/a	<0.02
MELBA	MF74			Black puggy veinlets present and minor quartz veinlets present. Pale green olivine crystals and formation of white/cream clay minerals. Gabbro tends to become finer grained towards lower contact. Irregular lower contact at 65 degrees. Sphalerite decreases towards lower contact. Minor chlorite	90.7	93.7	3	3.0	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	93.7	96.4	2.7	2.7	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	96.4	99.5	3.1	3.1	100.0							
MELBA	MF74			Black puggy veinlets present and minor quartz veinlets present. Pale green olivine crystals and formation of white/cream clay minerals. Gabbro tends to become finer grained towards lower contact. Irregular lower contact at 65 degrees. Sphalerite decreases towards lower contact. Minor chlorite	99.5	102.6	3.1	3.1	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	102.6	105.4	2.8	2.8	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	105.4	107.7	2.2	2.3	95.7							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	107.7	110.4	2.7	2.7	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	110.4	112.0	1.6	1.6	100.0							
MELBA	MF74			Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. No visual sulphides present. Minor trace pyrite present. BCA at 45.3 is 54.	112.0	115.0	3	3.0	100.0							
MELBA	MF74	43.9	47.7	Interbedded												

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MELBA MF74			veinlets. BCA at 85m is 69. Minor cubes of pyrite present.	171.5	174.1	2.6	2.6	100.0										
MELBA MF74				174.1	177.2	3.1	3.1	100.0										
MELBA MF74	86.1	90	Pale green interbedded siltstone/mudstone. Fine grained with abundant carbonate veinlets.	177.2	180.3	3	3.1	96.8	88.8	89.9	200	110	n/a	n/a	1.67			
MELBA MF74			Minor disseminated Py present towards lower contact.	180.3	183.4	3	3.1	96.8	89.9	91.0	300	80	n/a	n/a	<0.02			
MELBA MF74			BCA at 88m is 64. Lower contact appears to be gradation with lower contact.	183.4	186.5	3	3.1	96.8	91.0	92.0	240	80	n/a	n/a	<0.02			
MELBA MF74				186.5	189.6	3.1	3.1	100.0	92.0	93.0	430	220	n/a	n/a	0.04			
MELBA MF74	90	94.9	Pale green spotted Gabbro	189.6	192.7	3.1	3.1	100.0	93.0	94.0	360	90	n/a	n/a	<0.02			
MELBA MF74			Fine to coarse grained gabbro with minor carbonate qtz veins. Minor trace sulphides present. Sulphides increase towards lower contact (base).	192.7	194.0	1.1	1.3	84.6	94.0	94.9	2890	1790	n/a	n/a	0.41			
MELBA MF74			Hw contact appears to be at 73 CA?	194.0	196.0	2	2.0	100.0	94.9	95.6	3500	2680	n/a	n/a	1.82			
MELBA MF74	94.9	95.1	Small iron/magnesium rich carbonate vein.	196.0	199.0	3	3.0	100.0										
MELBA MF74			Abundant sphalerite and galena within veinlets. Minor chlorite present. Vein at 63 CA. Large visible crystals present within carbonate.	199.0	202.0	3	3.0	100.0										
MELBA MF74				202.0	205.0	3	3.0	100.0										
MELBA MF74			Fine to coarse grained gabbro with minor carbonate qtz veins. Minor trace sulphides present. Sulphides increase towards lower contact (base). Sharp lower FW contact at 59 CA.	205.0	208.0	3	3.0	100.0										
MELBA MF74	95.1	95.6	Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. Minor sulphides present within both black mudstone beds and calcite veinlets. BCA at 103.5m is 57. Abundant carbonate and qtz veining between 112.8m and 115m.	208.0	211.0	3	3.0	100.0										
MELBA MF74				211.0	214.0	3	3.0	100.0										
MELBA MF74				214.0	215.8	1.8	1.8	100.0										
MELBA MF74	95.1	95.6	Pale green spotted Gabbro	215.8	218.9	3.1	3.1	100.0										
MELBA MF74			Fine to coarse grained gabbro with minor carbonate qtz veins. Minor trace sulphides present. Sulphides increase towards lower contact (base). Sharp lower FW contact at 59 CA.	218.9	220.8	1.9	1.9	100.0										
MELBA MF74				220.8	223.0	2.2	2.2	100.0										
MELBA MF74				223.0	224.5	1.5	1.5	100.0										
MELBA MF74	95.6	115.4	Interbedded black mudstone and pale green/grey siltstone. Minor carbonate veinlets and pale green chlorite veinlets. Minor sulphides present within both black mudstone beds and calcite veinlets. BCA at 103.5m is 57. Abundant carbonate and qtz veining between 112.8m and 115m.	224.5	227.0	2.5	2.5	100.0	114.6	115.4	100	100	n/a	n/a	0.65			
MELBA MF74				227.0	229.0	2	2.0	100.0	117.5	118.2	140	120	n/a	n/a	1.00			
MELBA MF74				229.0	232.0	3	3.0	100.0										
MELBA MF74				232.0	234.8	2.8	2.8	100.0										
MELBA MF74				234.8	237.9	3.1	3.1	100.0										
MELBA MF74				237.9	239.3	1.4	1.4	100.0										
MELBA MF74	115.4	125.3	Pale green siltstone, sandstone and minor mudstone. Minor small carbonate veinlets present. No visible sulphides present. CBA at 123m is 31.	239.3	242.3	3	3.0	100.0										
MELBA MF74				242.3	244.0	1.7	1.7	100.0										
MELBA MF74				244.0	246.2	2.2	2.2	100.0										
MELBA MF74	125.3	130.0	Interbedded black mudstone and pale green/grey siltstone. Abundant carbonate veinlets and quartz veinlets. BCA at m is Minor py present.	246.2	249.1	2.9	2.9	100.0										
MELBA MF74				249.1	252.2	3.1	3.1	100.0										
MELBA MF74				252.2	255.3	3.1	3.1	100.0										
MELBA MF74				255.3	258.4	3.1	3.1	100.0										
MELBA MF74				258.4	261.5	3	3.1	96.8										
MELBA MF74				261.5	264.5	3	3.0	100.0										
MELBA MF74	130.0	135.7	Pale green siltstone, sandstone and minor mudstone. Minor small carbonate veinlets present. No visible sulphides present. CBA at 134m is 70. Younging up hole. Gradational lower contact with hematitic sandstone/siltstones.	264.5	267.6	3	3.1	96.8										
MELBA MF74				267.6	270.7	3	3.1	96.8										
MELBA MF74				270.7	273.5	2.8	2.8	100.0										
MELBA MF74				273.5	276.6	3.1	3.1	100.0										
MELBA MF74				276.6	279.7	3.1	3.1	100.0										
MELBA MF74	135.7	140.0	Hematitic sandstone, siltstone and mudstone. Interbedded graded mudstone, siltstone and coarse grained sandstone. Grading up hole. BCA at 139.6m is 50.	279.7	282.8	3.1	3.1	100.0										
MELBA MF74				282.8	285.9	3.1	3.1	100.0										
MELBA MF74				285.9	289.0	3.1	3.1	100.0										
MELBA MF74				289.0	292.0	3	3.0	100.0										
MELBA MF74				292.0	293.1	1.1	1.1	100.0										
MELBA MF74	140.0	142.4	Pale green siltstone, sandstone and minor mudstone. Minor small carbonate veinlets present. No visible sulphides present. Younging up hole.	293.1	295.0	1.9	1.9	100.0										
MELBA MF74				295.0	298.0	3	3.0	100.0										
MELBA MF74				298.0	301.0	3	3.0	100.0										
MELBA MF74	142.4	154.6	Hematitic sandstone, siltstone and mudstone. Interbedded and graded coarse sandstone, siltstone and mudstone. Grading up hole. BCA at 148m is 36. BCA at 146.5m is 60. Minor carbonate veinlets present.	301.0	304.0	3	3.0	100.0										
MELBA MF74				304.0	305.3	1.3	1.3	100.0										
MELBA MF74				305.3	306.7	1.4	1.4	100.0										
MELBA MF74				306.7	309.8	3.1	3.1	100.0										
MELBA MF74				309.8	312.6	2.8	2.8	100.0										
MELBA MF74				312.6	315.7	3.1	3.1	100.0										
MELBA MF74	154.6	160.3	Pale green graded fine to medium grained siltst and sandst. Minor small carbonate veinlets present. Minor trace sulphides present. Younging up hole.	315.7	318.8	3.1	3.1	100.0										
MELBA MF74				318.8	320.1	1.3	1.3	100.0										
MELBA MF74				320.1	321.5	1.4	1.4	100.0										
MELBA MF74				321.5	324.6	3.1	3.1	100.0										
MELBA MF74	160.3	161.7	Pale green fine Gabbro	324.6	327.7	3.1	3.1	100.0										
MELBA MF74				327.7	330.8	3.1	3.1	100.0										
MELBA MF74				330.8	333.9	3.1	3.1	100.0										
MELBA MF74				333.9	337.0	3.1	3.1	100.0										
MELBA MF74				337.0	340.0	3	3.0	100.0										
MELBA MF74	161.7	162.8	Fine grained pale green mudstone/siltstone. Graded beds present. Trace veinlets of sulphides present.	340.0	343.0	3	3.0	100.0	162.8	164.0	180	60	10	140	0.25			
MELBA MF74				343.0	345.5	2.5	2.5	100.0	164.0	165.0	280	90	<10	110	<0.02			
MELBA MF74				345.5	348.5	3	3.0	100.0	165.0	166.0	320	110	<10	80	<0.02			
MELBA MF74				348.5	351.4	2.9	2.9	100.0	166.0	167.0	550	120	<10	100	<0.02			
MELBA MF74	162.8	176.6	Gabbro	351.4	354.5	3.1	3.1	100.0	167.0	168.0	610	160	1010	2260	0.34			
MELBA MF74				354.5	357.6	3.1	3.1	100.0	168.0	169.0	590	120	100	650	<0.02			
MELBA MF74				357.6	359.9	2.3	2.3	100.0	174.6	175.6	330	110	20	110	<0.02			
MELBA MF74				359.9	363.0	3.1	3.1	100.0	175.6	176.6	350	110	50	140	<0.02			
MELBA MF74				363.0	366.1	3.1	3.1	100.0										
MELBA MF74				366.1	369.2	3.1	3.1	100.0										
MELBA MF74				369.2	372.3	3.1	3.1	100.0										
MELBA MF74				372.3	375.3	3	3.0	100.0										
MELBA MF74	176.6	182.1	Pale green graded fine to medium grained siltst and sandst. Large pyrite cubes present and trace sulphides present within matrix. Younging up hole. CBA at 180.7m is 40.	375.3	378.4	3.1	3.1	100.0										
MELBA MF74				378.4	381.5	3.1	3.1	100.0										
MELBA MF74				381.5	384.6	3.1	3.1	100.0										
MELBA MF74	182.1	185.1	Pale red hematitic siltstone and sandstone. Interbedded graded siltstone and sandstone with abundant carbonate veinlets. BCA 184.1m is 40. Minor barren carbonate veining.	384.6	387.7	3.1	3.1	100.0										
MELBA MF74				387.7	390.8	3.1	3.1	100.0										
MELBA MF74				390.8	393.9	3.1	3.1	100.0										
MELBA MF74				393.9	397.0	3.1	3.1	100.0										
MELBA MF74	185.1	193.0	Pale green graded fine to medium grained siltst and sandst. 2 generations of carbonate veinlets. CBA at 186.1m is 42. some minor massive beds as well as graded beds.	397.0	400.0	3	3.0	100.0	193.5	194.0	100	3						

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

MELBA MF74			Interbedded and graded coarse sandstone, siltstone and mudstone. Grading up hole. BCA at 199.5m is 58.	425.2	427.0	1.8	1.8	100.0											
MELBA MF74			Minor carbonate veinlets present. Gradational hematitic lower contact.	428.1	430.0	1.9	1.9	100.0											
MELBA MF74	201.7	213.7	Pale green siltstone, sandstone and minor mudstone.	430.0	433.0	2	3.0	66.7											
MELBA MF74			Minor small carbonate veinlets present. Minor sulphide present Py?. CBA at 209m is 58. Abundant carbonate veining towards lower contact. Beds tend to be both disrupted and graded. Sharp lower contact with small sheared fault zone/disrupted zone.	434.5	437.6	3.1	3.1	100.0											
MELBA MF74			Small fault zone with minor puggy shears and carbonate veining. Core tends to be brecciated with a carbonate matrix. Minor sphalerite and galena with Cb veining.	437.6	440.7	3.1	3.1	100.0											
MELBA MF74			Low contact is at 33 degrees to core axis.	440.7	443.8	3.1	3.1	100.0											
MELBA MF74	213.7	214.5	Pale light green/grey sandstone and siltstone.	443.8	446.9	3	3.1	96.8											
MELBA MF74			Abundant sphalerite and galena within Cb veinlets. Iron or magnesium type carbonate. Carbonate veins CA at 47. core tends to be leached.	446.9	450.0	3	3.1	96.8											
MELBA MF74			Pale green sandstone/siltstone with abundant sulphide veinlets. Two generations of carbonate veinlets. The later veinlets carbonate veinlets are not mineralised.	450.0	452.0	2	2.0	100.0	213.8	214.8	110	100	8630	16100	1.34				
MELBA MF74			The earlier carbonate veinlets are mineralised and visible Cpy and Py is present. Sulphide have mineralised along the top of a small gabbro. 30% sulphides stringers and 70% sandstone and siltstone.						214.8	215.8	100	180	3170	15600	0.93				
MELBA MF74			Dark green gabbro						215.8	216.8	90	70	2390	12400	0.69				
MELBA MF74			Trace sulphides present. Gabbro tends to be fairly fine grained. Two types of barren carbonate present. Gabbro has a slightly mottled texture. Irregular upper contact CA at ?. Lower contact at 225.7m is 72.						216.8	217.8	70	30	1770	5420	0.30				
MELBA MF74	214.5	224.2	Pale green graded siltstone and sandstone beds.						217.8	218.8	100	20	440	3440	0.26				
MELBA MF74			2 types of barren carbonate veinlets present. Beds tend to be both graded and massive. Beds tend to be slightly disrupted. CBA at 226.5m is 65. Gradational lower contact.						218.8	219.8	70	40	540	4320	0.31				
MELBA MF74			Hematitic sandstone, siltstone and mudstone with minor bands of pale green sandstone and siltstone.						219.8	220.8	50	100	110	350	0.05				
MELBA MF74			Interbedded and graded coarse sandstone, siltstone and mudstone. Grading up hole. BCA at 235m is 76.						220.8	221.8	140	330	420	4680	0.19				
MELBA MF74	224.2	224.9	Minor carbonate veinlets present. Faulted lower contact. CBA at 230m is 60. Minor conglomeritic beds upto 10cm						221.8	223.0	100	70	290	990	0.02				
MELBA MF74			Large carbonate filled fault zone. Minor disseminated sphalerite present. Core tends to be slightly brecciated with angular clasts of sandstone present. Upper contact at 36 degrees.						223.0	224.2	380	2270	n/a	n/a	0.20				
MELBA MF74			Pale green graded siltstone and sandstone beds.						224.2	224.9	90	90	n/a	n/a	6.35				
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.						224.9	225.7	220	150	n/a	n/a	0.14				
MELBA MF74	224.9	225.7	Fine to coarse grained gabbro																
MELBA MF74			Minor disseminated sulphides. 2 types of carbonate veinlets present, with trace Cpy. Abundant pyroxene and feldspar needle like crystals. Minor pyrite present.																
MELBA MF74			Gradational upper contact and sharp faulted lower contact with carbonate veining at CA 20. Disseminated sulphides more common around Cb veinlets. Minor tremolite or actinolite? alteration with minor disseminated sulphides.																
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	227.8	244.8	Small carbonate broken fault. No sulphides present. Upper contact at 50 degrees. Broken lower contact.						244.8	246.2	50	50	240	7700	0.49				
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	244.8	246.2	Large carbonate filled fault zone. Minor disseminated sphalerite present. Core tends to be slightly brecciated with angular clasts of sandstone present. Upper contact at 36 degrees.																
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	246.2	254.5	Small carbonate broken fault. No sulphides present. Upper contact at 50 degrees. Broken lower contact.																
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	254.5	254.8	Small carbonate broken fault. No sulphides present. Upper contact at 50 degrees. Broken lower contact.																
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	254.8	254.8	Small carbonate broken fault. No sulphides present. Upper contact at 50 degrees. Broken lower contact.																
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.																
MELBA MF74	254.8	288.7	Fine to coarse grained gabbro						261.5	262.5	230	110	n/a	n/a	<0.02				
MELBA MF74			Minor disseminated sulphides. 2 types of carbonate veinlets present, with trace Cpy. Abundant pyroxene and feldspar needle like crystals. Minor pyrite present.						262.5	263.5	260	120	n/a	n/a	<0.02				
MELBA MF74			Gradational upper contact and sharp faulted lower contact with carbonate veining at CA 20. Disseminated sulphides more common around Cb veinlets. Minor tremolite or actinolite? alteration with minor disseminated sulphides.						263.5	264.5	250	70	n/a	n/a	<0.02				
MELBA MF74			Pale green graded siltstone and sandstone beds.						264.5	265.5	270	90	n/a	n/a	<0.02				
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Sharp lower contact. At 70 degrees with gabbro.						265.5	266.5	250	90	n/a	n/a	<0.02				
MELBA MF74			Fine to coarse grained gabbro						266.5	267.5	260	90	n/a	n/a	<0.02				
MELBA MF74			Minor disseminated sulphides. 2 types of carbonate veinlets present, with trace Cpy. Abundant pyroxene and feldspar needle like crystals. Minor pyrite present.						267.5	268.5	210	90	n/a	n/a	0.06				
MELBA MF74			Gradational upper contact and sharp faulted lower contact with carbonate veining at CA 20. Disseminated sulphides more common around Cb veinlets. Minor tremolite or actinolite? alteration with minor disseminated sulphides.						268.5	269.5	230	90	n/a	n/a	0.09				
MELBA MF74			Pale green graded siltstone and sandstone beds.						269.5	270.5	280	100	n/a	n/a	<0.02				
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Younging up hole. CBA at 297 is 76.						270.5	271.5	280	100	n/a	n/a	0.20				
MELBA MF74			Small infilled fault						271.5	272.5	210	90	n/a	n/a	<0.02				
MELBA MF74			Abundant sphalerite, galena and chalcopyrite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Lower contact at CA 71.						272.5	273.5	130	70	n/a	n/a	0.05				
MELBA MF74			Pale green graded siltstone and sandstone beds.						273.5	274.5	160	80	n/a	n/a	<0.02				
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Gradational lower contact with gabbro						274.5	275.5	160	90	n/a	n/a	<0.02				
MELBA MF74			Younging up hole. CBA at 213.7m is 70.						275.5	276.5	200	70	n/a	n/a	<0.02				
MELBA MF74	302.4	302.7	Small infilled fault						276.5	277.5	330	80	n/a	n/a	<0.02				
MELBA MF74			Abundant sphalerite, galena and chalcopyrite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Lower contact at CA 71.						288.7	289.7	170	90	n/a	n/a	0.81				
MELBA MF74			Pale green graded siltstone and sandstone beds.																
MELBA MF74			Beds tend to be both graded and massive. Fine to medium grained sandstone beds. Beds tend to be slightly disrupted. Gradational lower contact with gabbro																
MELBA MF74			Younging up hole. CBA at 213.7m is 70.																
MELBA MF74	302.7	323.5	Coarse grained gabbro.						302.4	302.7	60	1520	8050	59200	4.02				
MELBA MF74			Abundant disseminated sulphides Pe? Present within a coarse grained gabbro. Abundant needle like crystal structures possible pyroxenes and feldspars? Minor tremolite or actinolite alteration flooding? 2 types of carbonate veinlets.						323.5	324.5	120	50	n/a	n/a	<0.02				
MELBA MF74			Small infilled fault						324.5	325.5	90	50	n/a	n/a	0.18				
MELBA MF74			Abundant sphalerite, galena, chalcopyrite and pentlandite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Shape faulted upper contact at 34 CA. Sharp faulted lower contact at 35 CA.						325.5	326.5	30	60	n/a	n/a	0.90				
MELBA MF74			Medium grained gabbro.						326.5	327.5	20	60	n/a	n/a	0.93				
MELBA MF74			Abundant serpentine veinlets with minor disseminated sulphides present. Alteration type changes at 336m from a actinolite/tremolite altered volcanic to a spotted yellow epidote/sercite altered gabbro? Trace disseminated sulphides. Minor carbonate veinlets but abundant Sp veinlets. Epidote/sercite have totally replace the feldspars.						327.5	328.5	30	80	280	710	0.68				
MELBA MF74			Small infilled fault						328.5	328.9	30	1010	48000	95600	6.15				
MELBA MF74			Abundant sphalerite, galena, chalcopyrite and pentlandite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Shape faulted upper contact at 34 CA. Sharp faulted lower contact at 35 CA.						328.9	329.9	30	60	1570	2370	0.22				
MELBA MF74			Medium grained gabbro.						329.9	330.9	40	60	n/a	n/a	0.06				
MELBA MF74			Abundant sphalerite, galena, chalcopyrite and pentlandite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Shape faulted upper contact at 34 CA. Sharp faulted lower contact at 35 CA.						330.9	331.9	70	50	n/a	n/a	0.09				
MELBA MF74			Medium grained gabbro.						331.9	333.0	90	60	n/a	n/a	0.03				
MELBA MF74			Abundant sphalerite, galena, chalcopyrite and pentlandite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Shape faulted upper contact at 34 CA. Sharp faulted lower contact at 35 CA.						333.0	334.0	240	80	n/a	n/a	<0.02				
MELBA MF74			Medium grained gabbro.						334.0	335.0	280	70	n/a	n/a	<0.02				
MELBA MF74			Abundant sphalerite, galena, chalcopyrite and pentlandite within a carbonate infilled fault zone. 2 types of carbonate veinlets. Shape faulted upper contact at 34 CA. Sharp faulted lower contact at 35 CA.						335.0	336.0	390	70	n/a	n/a	<0.02				
MELBA MF74			Medium grained gabbro.						336.0	337.0	390	60							

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

Project	Hole ID	Log		Description	Recovery				Assays												
		From	To		From	To	%	From	To	% Ni	% Cu	Pb	% Pb	% Zn	Au pt	Pt pp	Pd pp	% S			
MELBA	MF75	0	3	Small pale brown clay zone. Abundant limonite.	0	3	3	1	33.33												
MELBA	MF75	3	3.6	Fine grained pale green siltstone. Core is extremely broken. Minor pug present. Core leached	3	4	1	0.9	90												
MELBA	MF75	3.6	5.9	Pale green medium grained Gabbro.	5	6	1	1	100	3.6	4.9	0.02	0.012		n/a	n/a	n/a	n/a	n/a	0.07	
MELBA	MF75			Weathered with minor puggy zones. Trace sulphides Py present. Irregular lower contact at 45 degrees. Minor small shears present. Core leached	6	7	1	0.9	90	4.9	5.9	0.033	0.015		n/a	n/a	n/a	n/a	n/a	0.04	
MELBA	MF75				8	9	1	1	100												
MELBA	MF75	5.9	7.3	Fine grained pale green siltstone/sandstone.	9	10	1	1	100												
MELBA	MF75			Minor large pyrite cubes present. Beds tend to be disrupted and folded. Small puggy broken lower contact. Core fairly broken.	10	11.5	1.5	1.5	100												
MELBA	MF75				11.5	13	1.5	1.6	106.7												
MELBA	MF75				13	14.5	1.5	1.5	100												
MELBA	MF75	7.3	11.2	Pale green medium grained Gabbro.	14.5	16	1.5	1.5	100	7.3	8.2	0.044	0.013		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75			Weathered and abundant broken zones. Minor disseminated sulphides. Irregular lower contact at 10 degrees. Minor small shears present. Core slightly leached.	16	17.5	1.5	1.5	100	8.2	9.2	0.046	0.016		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				17.5	19	1.5	1.5	100	9.2	10.2	0.036	0.018		n/a	n/a	n/a	n/a	n/a	0.11	
MELBA	MF75				19	20.8	1.8	1.8	100	10.2	11.2	0.041	0.018		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				20.8	22	1.2	1.2	100												
MELBA	MF75	11.2	21.4	Fine to medium grained pale green siltstone/sandstone.	22	24.2	2.2	2.2	100												
MELBA	MF75			with weakly hematite altered beds. Beds tend to be disrupted. Small puggy broken lower contact. Very low angle 10 degree contact with gabbro. From 20.2m to 21.4m core tends to be leached with minor carbonate veinlets. Trace pyrite present.	24.2	26.1	1.9	1.9	100												
MELBA	MF75				26.1	28	1.9	1.8	94.74												
MELBA	MF75				28	31	3	3	100												
MELBA	MF75				31	34	3	3	100												
MELBA	MF75				34	36.5	2.5	2.5	100												
MELBA	MF75	21.4	29.9	Pale green medium grained Gabbro.	36.5	39.6	3.1	3.1	100	21.4	22.7	0.08	0.024		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75			Abundant barren carbonate veinlets present. Trace sulphides present. Core tends to be leached and bleached. Minor green alteration present, similar to zaraitite. Lower contact is slightly brecciated and irregular. Low contact is at 10 degrees (low angle). Minor chlorite and sericite alteration?.	39.6	41.2	1.6	1.6	100	22.7	24.0	0.085	0.018		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				41.2	42.3	1.1	1.1	100	24.0	25.0	0.036	0.009		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				42.3	43	0.7	0.4	57.14	25.0	26.0	0.02	0.012		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				43	46	3	3	100	26.0	27.0	0.015	0.01		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				46	49	3	3	100	27.0	28.0	0.017	0.011		n/a	n/a	n/a	n/a	n/a	<0.02	
MELBA	MF75				49	52	3	3	100	28.0	29.0	0.017	0.009		n/a	n/a	n/a	n/a	n/a	0.02	
MELBA	MF75	29.9	34.5	Fine to medium grained sandstone with silty tops.	52	52.4	0.4	0.4	100	29.0	29.9	0.018	0.011		n/a	n/a	n/a	n/a	n/a	0.03	
MELBA	MF75			Slightly hematite altered sediment with minor carbonate veinlets present. Thinly to thickly laminated disrupted sandstone/siltstone beds. CBA at 35.5m is 14. Irregular lower contact at 30 degrees.	52.4	52.7	0.3	0.3	100												
MELBA	MF75				52.7	55	2.3	2.1	91.3												
MELBA	MF75				55	58	3	3	100												
MELBA	MF75				58	63.8	5.8	5.8	100												
MELBA	MF75	34.5	39.8	Fine to medium grained pale green siltstone/sandstone.	63.8	66.9	3.1	3.1	100												
MELBA	MF75			Minor carbonate veinlets. Beds tend to be slightly disrupted. Small fault at lower contact. Minor sulphide veins. Beds tend to be thickly laminated. CBA at 37m is 23	66.9	68.5	1.6	1.6	100												
MELBA	MF75				68.5	69.4	0.9	0.9	100												
MELBA	MF75				69.4	71	1.6	1.5	93.75												
MELBA	MF75				71	73	2	2	100												
MELBA	MF75	39.8	39.9	Small fault zone with minor vuggy sulphides present.	73	75.4	2.4	2.3	95.83												
MELBA	MF75			Abundant carbonate present.	75.4	77.7	2.3	2.3	100	39.8	40.3	0.009	0.003		n/a	n/a	n/a	n/a	n/a	0.21	
MELBA	MF75	39.9	44.3	Grey gritty graded and disrupted sandstone with mudstone laminations. Minor barren carbonate veinlets present. Minor sulphides along foliation Py?. Minor floating mudstone clasts present.	77.7	80.1	2.4	2.4	100												
MELBA	MF75				80.1	82	1.9	1.9	100												
MELBA	MF75				82	85	3	3	100												
MELBA	MF75				85	87	2	2	100												
MELBA	MF75	44.3	47.8	Thickly to thinly laminated black mudstone beds with minor siltstone. Minor barren carbonate veinlets. Trace Py present along foliation. CBA at 46m is 14.	87	88	1	1	100												
MELBA	MF75				88	89.2	1.2	1.2	100												
MELBA	MF75				89.2	90.3	1.1	1.1	100												
MELBA	MF75	47.8	57.3	Grey gritty graded and disrupted sandstone with minor mudstone laminations. Minor barren carbonate veinlets present. Minor floating mudstone clasts present. CBA at 56m is 27. Trace sulphides present along foliation. Gradational lower contact.	90.3	93.3	3	3	100	52.0	52.8	0.013	0.008		n/a	n/a	n/a	n/a	n/a	3.37	
MELBA	MF75				93.3	96.3	3	3	100												
MELBA	MF75				96.3	99.4	3.1	3	96.77												
MELBA	MF75				99.4	102	2.4	2.4	100												
MELBA	MF75				102	105	3.1	3.1	100												
MELBA	MF75	57.3	65.2	Fine to medium grained pale green siltstone/sandstone.	105	107	2.2	2.2	100												
MELBA	MF75			Minor carbonate veinlets. Beds tend to be disrupted and graded. Gradational lower contact. CBA at 63m is 23.	107	109	1.9	1.9	100												
MELBA	MF75				109	112	3	3	100												
MELBA	MF75	65.2	66.8	Hematitic red sandstone.	112	115	3	3	100												
MELBA	MF75			Minor carbonate veining. Beds tend to be massive with minor grading. Gradational lower contact. BCA at 66m is 30.	115	118	3	3	100												
MELBA	MF75				118	121	3	3	100												
MELBA	MF75				121	124	3	3	100												
MELBA	MF75	66.8	71.9	Fine to medium grained pale green siltstone/sandstone.	124	127	3	3	100	70.9	71.9	0.04	0.038	10	0.001	200	<0.01	0.06	<0.01	0.10	
MELBA	MF75			Minor carbonate veinlets with trace sulphides present. Beds tend to be graded with minor mudstone floating clasts. Younging up hole. BCA at 67m is 40. BCA at 70m is 31. Sharp lower contact at 32 with gabbro.	127	130	3	2.8	93.33												
MELBA	MF75				130	133	3	3	100												
MELBA	MF75				133	136	3	3	100												
MELBA	MF75				136	139	3	3	100												
MELBA	MF75	71.9	73.7	Mineralised pale green gabbro.	139	142	3	3	100												
MELBA	MF75			Semi massive medium grained gabbro. Abundant disseminated sulphides including Cpy, Py and Pe.	142	143	1.4	1.4	100	71.9	72.8	2.53	2.03	1090	0.109	1560	0.43	0.40	0.94	8.40	
MELBA	MF75				143	145	1.6	1.6	100	72.8	73.7	2.23	1.63	1280	0.128	2800	0.32	0.42	0.65	8.06	
MELBA	MF75			Abundant small secondary sulphide veinlets present.	145	148	3	3	100	73.7	74.7	0.035	0.025	100	0.01	620	<0.01	0.08	<0.01	<0.02	
MELBA	MF75			Abundant carbonate veinlets displaying sulphides. Irregular lower contact at 56 degrees.	148	151	3	3	100	74.7	75.7	0.033	0.02	320	0.032	770	0.02	0.05	<0.01	0.34	
MELBA	MF75				151	154	3	3	100	75.7	76.7	0.028	0.013	800	0.08	2780	0.02	0.03	<0.01	0.11	
MELBA	MF75				154	157	3	3	100	76.7	77.5	0.89	0.818	4020	0.402	13700	0.08	0.23	0.32	3.63	
MELBA	MF75	73.7	76.7	Brecciated pale green medium to fine sandstone/siltstone.	157	160	3	3	100	77.5	78.5	1.55	1.62	5950	0.595	39200	0.32	0.40	0.62	6.37	
MELBA	MF75			Abundant carbonate veining with irregular and angular clasts. Abundant small displacements of sediment (healed shears). Irregular lower contact at 21 degrees.	160	163	3	3	100	78.5	79.5	1.33	1.4	2150	0.215	6220	0.29	0.37	0.50	4.26	
MELBA	MF																				

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MELBA	MF76			Gradational lower contact with sandstone. Beds tend to be disrupted. Soft sediment deformation and fracturing.								
MELBA	MF76	149.50	151.00	Interbedded pale green sandstone, siltstone and black								
MELBA	MF76			mudstone. Abundant carbonate veinlets.								
MELBA	MF76			Thickly laminated mudstone beds and thickly bedded								
MELBA	MF76			sandstone and siltstone. EOH 151m								

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Project	Hole ID	Log		Description	Recovery			Assays		% Ni	% Cu
		From	To		From	To	%	From	To		
MELBA	MF78	0.00	6.30	Orange/yellow clay	0	3	43.33				
MELBA	MF78			Extremely broken limonite clays. Minor goethite joints	3	4	80				
MELBA	MF78			present. Extremely puggy.	4	4.9	100				
MELBA	MF78	6.30	8.10	Puggy grey sheared mudstone and siltstone.	4.9	5.5	33.33				
MELBA	MF78			Core extremely brittle and broken. Slightly brecciated	5.5	6.2	71.43				
MELBA	MF78			core.	6.2	7	37.5				
MELBA	MF78	8.10	11.00	Leached/weathered pale green sandstones. Core	7	8	60				
MELBA	MF78			tends to be broken. Minor quartz veinlets with chlorite.	8	9	100				
MELBA	MF78			Minor goethite/limonite joints. Core tends to be slightly	9	10	60				
MELBA	MF78				10	11	70				
MELBA	MF78	11.00	20.00	Interbedded sandstone, siltstone and mudstone.	11	12	80				
MELBA	MF78			Core tends to be sheared and broken towards lower	12	13	80				
MELBA	MF78			contact. Thinly bedded to laminated black mudstone	13	14.5	100				
MELBA	MF78			interbedded with pale green vuggy sandstone. Minor	14.5	16	93.33				
MELBA	MF78			vuggy quartz veins, carbonate veinlets appear to be	16	17.5	66.67				
MELBA	MF78			leached. Minor trace sulphides present. CBA at 18.5m is 64.	17.5	19	93.33				
MELBA	MF78	20.00	20.60	Minor leached puggy broken fault.	19	20.5	80				
MELBA	MF78			Abundant vugs. Slightly sheared core. Minor sulphides	20.5	22	80				
MELBA	MF78			present. Core extremely broken.	22	23.9	52.63				
MELBA	MF78	20.60	21.80	Black mudstone with minor thick siltstone laminations.	23.9	25	54.55				
MELBA	MF78			Core tends to be slightly brecciated, broken and leached.	25	26.5	86.67				
MELBA	MF78	21.80	22.30	small broken fault zone.	26.5	28	86.67				
MELBA	MF78			Minor quartz present within predominantly mudstone.	28	31	100				
MELBA	MF78			Minor sheared zone. Leached core minor vugs present.	31	34	96.67				
MELBA	MF78	22.30	34.70	Interbedded mudstone/siltstone/sandstone.	34	35.3	100				
MELBA	MF78			Thinly bedded to laminated black mudstone interbedded thickly	35.3	36.2	88.89				
MELBA	MF78			bedded siltstone and sandstone. Start of minor	36.2	37.4	83.33				
MELBA	MF78			carbonate veinlets. Minor vugs/leached zones present.	37.4	39.5	85.71				
MELBA	MF78			Minor disseminated py present.	39.5	42.5	100				
MELBA	MF78			CBA at 27.5m is 49d, CBA at 32.2m is 66,	42.5	44.4	94.74				
MELBA	MF78	34.70	37.10	Minor sheared fault zone.	44.4	46	100				
MELBA	MF78			Core tends to be slightly leached and broken. Minor	46	47.1	100				
MELBA	MF78			disseminated pyrite present in vugs. Minor puggy shears	47.1	49	100				
MELBA	MF78			present. Predominantly interbedded mudstone and	49	52	96.67				
MELBA	MF78			siltstone.	52	54.9	100				
MELBA	MF78	37.10	44.20	Interbedded siltstone and mudstone.	54.9	57.4	100				
MELBA	MF78			Pale green thinly bedded siltstone and black mudstone.	57.4	59	93.75				
MELBA	MF78			Minor carbonate veinlets and open weathered vugs.	59	61	90				
MELBA	MF78			Minor fine pyrite within mudstone beds. CBA at 42m is 67d	61	62.8	100				
MELBA	MF78	44.20	44.30	Small vuggy quartz vein.	62.8	65.9	96.77				
MELBA	MF78			Minor chlorite and trace sulphides.	65.9	69	96.77				
MELBA	MF78	44.30	48.10	Pale green thickly bedded graded siltstone sandstone.	69	72.1	100				
MELBA	MF78			Minor carbonate veinlets and vugs. Younging up hole.	72.1	75.2	96.77				
MELBA	MF78			CBA at 47m is 50d. Minor trace Py present.	75.2	78.2	103.3				
MELBA	MF78	48.10	53.20	Hematitic graded siltstones and sandstones	78.2	81.3	100				
MELBA	MF78			Younging up hole. Minor carbonate veinlets.	81.3	84.4	100				
MELBA	MF78			CBA at 49m is 50d. CBA at 52.9m is 43d. Minor trace	84.4	87.5	100				
MELBA	MF78			sulphides present within carbonate veinlets.	87.5	90.6	100				
MELBA	MF78	53.20	55.60	Interbedded graded pale green sandstone and siltstone.	90.6	93.7	96.77				
MELBA	MF78			Minor disrupted beds. Minor carbonate veinlets.	93.7	96.8	100				
MELBA	MF78			CBA at 54m is 43d, 54d and 40d.	96.8	99.9	100				
MELBA	MF78	55.60	60.80	Interbedded siltstone and mudstone.	99.9	103	96.77				
MELBA	MF78			Pale green thinly bedded siltstone and black mudstone.	103	106	103.3				
MELBA	MF78			Minor carbonate veinlets. Minor fine pyrite within	106	108.8	100				
MELBA	MF78			mudstone beds. CBA at 57m is 50d.	108.8	111.9	100				
MELBA	MF78	60.80	64.80	Interbedded graded pale green sandstone and siltstone.	111.9	114.5	100				
MELBA	MF78			Younging up hole. Minor carbonate veinlets.	114.5	117.6	100				
MELBA	MF78			CBA at 64m is 37d.	117.6	120.7	100				
MELBA	MF78	64.80	73.40	Hematitic red graded and massive siltstones and	120.7	123.8	100	72.40	73.40	0.012	0.002
MELBA	MF78			sandstone beds. Younging up hole. Minor white carbonate veinlets.	123.8	126.9	100	73.40	74.40	0.013	0.013
MELBA	MF78			CBA at 66m is 35d. CBA at 68m is 30d. Minor trace	126.9	130	96.77	74.40	75.40	0.039	0.013
MELBA	MF78			chlorite present within carbonate veinlets.	130	133	100	75.40	76.40	0.045	0.013
MELBA	MF78	73.40	80.60	Pale green medium grained gabbro.	133	136	100	76.40	77.40	0.045	0.013
MELBA	MF78			Trace sulphides present. Minor sphalerite present	136	139	100	77.40	78.40	0.047	0.013
MELBA	MF78			towards upper contact?. Upper contact at 23 degrees.	139	142	100	78.40	79.50	0.041	0.011
MELBA	MF78			Lower contact at 79d. Minor carbonate veinlets present.	142	145	100	79.50	80.60	0.04	0.012
MELBA	MF78			Minor chlorite present within carbonate veinlets.	145	148	100	80.60	81.60	0.01	0.006
MELBA	MF78	80.60	82.40	Interbedded graded pale green sandstone and siltstone.	148	151	100				
MELBA	MF78			Younging up hole. Minor carbonate veinlets.	151	154	100				
MELBA	MF78			CBA at 82m is 45d.	154	157	100				
MELBA	MF78	82.40	96.80	Hematitic red graded and massive siltstones and	157	160	100				
MELBA	MF78			sandstone beds. Younging up hole. Minor white carbonate veinlets.	160	163	100				
MELBA	MF78			CBA at 66m is 35d. CBA at 68m is 30d. Minor trace	163	166	100				
MELBA	MF78			chlorite present within carbonate veinlets.	166	169	100				
MELBA	MF78	96.80	98.20	Pale green siltstone and sandstone	169	172	100				
MELBA	MF78			Thinly bedded pale green, graded siltstone and	172	175	100				
MELBA	MF78			sandstone. CBA at 97m is 34d. Minor carbonate	175	178	100				
MELBA	MF78			veinlets present. Minor disseminated pyrite present	178	181	100				
MELBA	MF78			towards lower contact. Sharp lower contact at 70d with	181	184	100	97.20	98.20	0.011	0.008
MELBA	MF78			Gabbro.	184	187	100	98.20	99.30	0.035	0.011
MELBA	MF78	98.20	100.40	Fine to medium grained dark green gabbro.	187	190	100	99.30	100.40	0.035	0.01
MELBA	MF78			Abundant barren carbonate veinlets. Irregular lower	190	193	100	100.40	101.55	0.011	0.003
MELBA	MF78			contact at 42 degrees. Trace sulphides present.	193	196	100	101.55	102.70	0.011	0.013
MELBA	MF78	100.40	102.70	Fine grained pale green massive siltstone.	196	199	103.3	102.70	103.90	0.031	0.01

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MELBA	MF78			Minor carbonate veinlets. Trace sulphides present.	199	202	96.67	103.90	105.10	0.029	0.01
MELBA	MF78			Irregular/pepperitic lower contact at 22 degrees.	202	204	100	105.10	106.10	0.019	0.008
MELBA	MF78	102.70	105.10	Medium grained dark green gabbro.	204	EOH					
MELBA	MF78			Minor barren carbonate veinlets. Irregular lower							
MELBA	MF78			contact at 46 degrees. Trace sulphides present.							
MELBA	MF78	105.10	110.40	Interbedded mudstone, siltstone and sandstone.							
MELBA	MF78			Pale green thinly bedded siltstone and thinly bedded							
MELBA	MF78			to finely laminated black mudstone. Abundant barren							
MELBA	MF78			carbonate veinlets and 5cm gabbro dykes. Minor fine pyrite within mudstone							
MELBA	MF78			beds. CBA at 110m is 69d. Gradational lower contact.							
MELBA	MF78	110.40	116.80	Pale green siltstone and sandstone Thinly bedded pale							
MELBA	MF78			green, massive and graded siltstone/sandstone.							
MELBA	MF78			Minor carbonate veinlets present. Trace disseminated							
MELBA	MF78			pyrite present. Gradational lower contact.							
MELBA	MF78	116.80	152.80	Interbedded mudstone, siltstone and sandstone.							
MELBA	MF78			Pale green thinly bedded siltstone and thinly bedded							
MELBA	MF78			to finely laminated black mudstone. Abundant barren							
MELBA	MF78			carbonate veinlets. Minor fine pyrite within mudstone							
MELBA	MF78			beds. CBA at 118.5m is 53d. CBA at 125m is 54d.							
MELBA	MF78			Gradational lower contact.							
MELBA	MF78	152.80	166.30	Pale green siltstone and sandstone Thinly bedded pale				156.70	157.70	0.011	0.008
MELBA	MF78			green, massive and graded siltstone/sandstone.							
MELBA	MF78			Minor carbonate veinlets present. Trace disseminated							
MELBA	MF78			pyrite present. Sharp lower contact at 27d with medium							
MELBA	MF78			grained gabbro. CBA at 152m is 43d. CBA at 160.5m is							
MELBA	MF78			55d.							
MELBA	MF78	166.30	166.70	Medim to fine grained dark green gabbro.							
MELBA	MF78			No visible sulphides. Trace carbonate veinlets. Sharp							
MELBA	MF78			lower contact at 46d							
MELBA	MF78	166.70	179.20	Pale green siltstone and sandstone Thinly bedded pale							
MELBA	MF78			green, massive and graded siltstone/sandstone.							
MELBA	MF78			Minor carbonate veinlets present. Trace disseminated							
MELBA	MF78			pyrite present. Irregular lower contact with carbonate							
MELBA	MF78			vein. Younging up hole. CBA at 173m is 48d.							
MELBA	MF78			Beds tend to be disrupted.							
MELBA	MF78	179.20	179.80	Barren white carbonate veins.							
MELBA	MF78			Irregular lower contact..							
MELBA	MF78	179.80	185.50	Interbedded mudstone, siltstone and sandstone.				181.0	181.9	0.007	0.007
MELBA	MF78			Pale green thinly bedded siltstone and thinly bedded							
MELBA	MF78			to finely laminated black mudstone. Abundant barren							
MELBA	MF78			carbonate veinlets. Minor fine pyrite within mudstone							
MELBA	MF78			beds. CBA at 183m is 59d. CBA at 188m is 59d.							
MELBA	MF78			Gradational lower contact.							
MELBA	MF78	185.50	197.50	Pale green siltstone and sandstone Thinly bedded pale							
MELBA	MF78			green, massive and graded siltstone/sandstone.							
MELBA	MF78			Minor carbonate veinlets present. Trace disseminated							
MELBA	MF78			pyrite present. Gradational lower contact.							
MELBA	MF78			Younging up hole. CBA at 173m is 48d. Minor 5cm							
MELBA	MF78			barren gabbro at 197.6m to 196.65m							
MELBA	MF78	197.50	204.00	Interbedded mudstone, siltstone and sandstone.							
MELBA	MF78			Pale green thinly bedded siltstone and thinly bedded							
MELBA	MF78			to finely laminated black mudstone. Abundant barren							
MELBA	MF78			carbonate veinlets. Minor fine pyrite within mudstone.							
MELBA	MF78			EOH at 204m							