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**

Hole Size

To (m)	**Size**
69.5	**HQ**
69.5-EOH	**NQ**

Major core losses:

From	To	% rec

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.

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

Hole Completion Condition

Collar pipe inserted

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	

Notes on Surveys

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

Project	Hole ID	Log		Description	Recovery					Assays		Ni	Cu	Pb	Zn	S
		From	To		From	To			%	From	To	Ni ppm	Cu ppm	Pb ppm	Zn ppm	%
MELBA	MF74	0	11	Medium grained siltstone with minor fine grained	0.0	2.6	2.6	10.0	100.0							
MELBA	MF74			sandstone beds weathered to orange clay. Broken	2.6	3.0	0.4	0.4	100.0							
MELBA	MF74			puggy ground. Minor geothite joints and minor haematite	3.0	4.7	0.7	1.7	41.2							
MELBA	MF74			staining. 7.5m - 8.7m Light grey/black fine grained	4.7	5.9	1.1	1.2	91.7							
MELBA	MF74			siltstone with thick laminations of black mudstone.	5.9	7.0	0.7	1.1	63.6							
MELBA	MF74			ground extremely puggy and broken. 8.7-11m medium	7.0	8.0	1	1.0	100.0							
MELBA	MF74			grained siltstone with minor fine grained sandstone	8.0	9.0	0.7	1.0	70.0							
MELBA	MF74			beds weathered to orange clay with geothite joints and	9.0	10.0	1	1.0	100.0							
MELBA	MF74			minor haematite staining. BCA at 14m is 52.	10.0	11.5	1.3	1.5	86.7							
MELBA	MF74	11	13.3	Light grey medium grained siltstone with minor	11.5	13.0	1.1	1.5	73.3							
MELBA	MF74			sandstone beds. Core extremely broken with minor	13.0	14.5	1.4	1.5	93.3							
MELBA	MF74			puggy shears. Sandstone tends to be fairly massive.	14.5	16.0	1.3	1.5	86.7							
MELBA	MF74	13.3	16.7	Light grey pale green massive sandstone with minor	16.0	17.5	1.2	1.5	80.0							
MELBA	MF74			siltstone laminations. Minor disseminated Py present.	17.5	19.0	1	1.5	66.7							
MELBA	MF74			Core tends to be friable and easily broken. BCA at 13.4m	19.0	20.5	1.4	1.5	93.3							
MELBA	MF74			is 34.	20.5	21.5	0.7	1.0	70.0							
MELBA	MF74	16.7	19.1	Large puggy broken fault zone. Core extremely broken	21.5	22.2	0.5	0.7	71.4							
MELBA	MF74			and friable. Core extremely soft and broken. Abundant	22.2	23.2	0.7	1.0	70.0							
MELBA	MF74			puggy zones within a pale green/grey sandstone with	23.2	25.0	1.4	1.8	77.8							
MELBA	MF74			black mudstone laminations No visible sulphides.	25.0	25.9	0.9	0.9	100.0							
MELBA	MF74	19.1	20	Interbedded pale grey/green sandstone with fine	25.9	27.2	1.3	1.3	100.0							
MELBA	MF74			laminations of dark black mudstone. Minor disseminated	27.2	28.0	0.8	0.8	100.0							
MELBA	MF74			pyrite within mudstone beds.	28.0	29.2	0.5	1.2	41.7							
MELBA	MF74	20	21.6	Small puggy fault zone within a pale green/grey	29.2	31.0	0.7	1.8	38.9							
MELBA	MF74			sandstone. Minor black pyritic mudstone laminations.	31.0	31.9	0.7	0.9	77.8							
MELBA	MF74			Minor clays present. Upper contact Ft 43.	31.9	33.0	0.8	1.1	72.7							
MELBA	MF74	21.6	22.6	Massive pale green/grey medium sandstone with minor	33.0	34.0	0.7	1.0	70.0							
MELBA	MF74			disseminated pyrite present. Minor geothite joints	34.0	35.0	0.4	1.0	40.0							
MELBA	MF74			present.	35.0	36.0	1	1.0	100.0							
MELBA	MF74	22.6	23.4	Small puggy fault zone within a pale green/grey	36.0	37.0	1	1.0	100.0							
MELBA	MF74			medium grained sandstone. Minor black mudstone	37.0	38.5	1	1.5	66.7							
MELBA	MF74			laminations present.	38.5	39.7	1.1	1.2	91.7							
MELBA	MF74	23.4	24.6	Thickly laminated black pyritic/graphitic mudstone and	39.7	40.4	0.6	0.7	85.7							
MELBA	MF74			fine grained light grey siltstone. Abundant small shears.	40.4	41.6	1.2	1.2	100.0							
MELBA	MF74			BCA at 24m is 54. Siltstone tends to be fairly massive.	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	43.0	44.0	1	1.0	100.0							
MELBA	MF74			medium grained siltstone. Minor black mudstone	44.0	45.0	0.8	1.0	80.0							
MELBA	MF74			disrupted laminations present. Minor geothite/iron	45.0	46.0	1	1.0	100.0							
MELBA	MF74			stained joints.	46.0	46.7	0.7	0.7	100.0							
MELBA	MF74	25.9	28.2	Massive pale green/grey medium sandstone with minor	46.7	47.7	1	1.0	100.0							
MELBA	MF74			disseminated pyrite present. Minor geothite joints	47.7	49.0	1	1.3	76.9							
MELBA	MF74			present.	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	49.8	52.0	2.1	2.2	95.5							
MELBA	MF74			medium grained sandstone. Minor black/greg mudstone	52.0	53.9	1.9	1.9	100.0							
MELBA	MF74			laminations present and abundant clay formation.	53.9	55.0	1.1	1.1	100.0							
MELBA	MF74			Minor 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	57.2	58.0	0.8	0.8	100.0							
MELBA	MF74			disseminated pyrite present. Core tends to be slightly	58.0	59.4	1.2	1.4	85.7							
MELBA	MF74			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	60.4	61.3	0.9	0.9	100.0							
MELBA	MF74			medium grained sandstone. Minor black/greg mudstone	61.3	62.1	0.8	0.8	100.0							
MELBA	MF74			laminations present and abundant clay formation.	62.1	63.4	1.2	1.3	92.3							
MELBA	MF74			Minor iron stained joints. Ft at 31.2m is 47.	63.4	64.5	1	1.1	90.9							
MELBA	MF74	31.8	34	Extremely broken interbedded light grey siltstone and	64.5	67.0	2.7	2.5	108.0							
MELBA	MF74			medium pale green/grey sandstone. Minor puggy zones	67.0	69.5	2.5	2.5	100.0							
MELBA	MF74			upto 10cm. Core extremely brittle. No visible sulphides.	69.5	71.9	2.2	2.4	91.7							
MELBA	MF74			Small faulted lower contact.	71.9	73.0	1.1	1.1	100.0							
MELBA	MF74	34	35.4	Pale green coarse grained gabbro. Extremely brittle	73.0	74.2	2.7	1.2	225.0	34.0	35.0	120	90	n/a	n/a	0.10
MELBA	MF74			and broken. Minor sphalerite? present and trace	74.2	76.0	1.8	1.8	100.0	35.0	36.0	100	100	n/a	n/a	0.17
MELBA	MF74			sulphides predomiently within veinlets. Core tends to	76.0	77.0	1	1.0	100.0	36.0	37.0	100	100	n/a	n/a	0.23
MELBA	MF74			be extremely weathered. Black puggy veinlets present.	77.0	78.7	1.6	1.7	94.1	37.0	38.0	110	110	n/a	n/a	0.26
MELBA	MF74			Pale green olivine crystals and formation of white/cream	78.7	81.7	3	3.0	100.0	38.0	39.0	130	80	n/a	n/a	0.06
MELBA	MF74			clay minerals.	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	84.7	87.1	2.4	2.4	100.0	40.0	41.0	320	100	n/a	n/a	<0.02
MELBA	MF74			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	88.8	90.7	1.9	1.9	100.0	42.0	43.9	440	160	n/a	n/a	<0.02
MELBA	MF74			and broken with abundant small shears Minor	90.7	93.7	3	3.0	100.0							
MELBA	MF74			sphalerite? present and trace sulphides predomiently	93.7	96.4	2.7	2.7	100.0							
MELBA	MF74			within veinlets. Core tends to be extremely weathered.	96.4	99.5	3.1	3.1	100.0							
MELBA	MF74			Black puggy veinlets present and minor quartz veinlets	99.5	102.6	3.1	3.1	100.0							
MELBA	MF74			present. Pale green olivine crystals and formation of	102.6	105.4	2.8	2.8	100.0							
MELBA	MF74			white/cream clay minerals. Gabbro tends to become	105.4	107.7	2.2	2.3	95.7							
MELBA	MF74			finer gained towards lower contact. Irregular lower	107.7	110.4	2.7	2.7	100.0							
MELBA	MF74			contact at 65 degrees. Sphalerite decreases towards	110.4	112.0	1.6	1.6	100.0							
MELBA	MF74			lower contact. Minor chlorite	112.0	115.0	3	3.0	100.0							
MELBA	MF74	43.9	47.7	Interbedded black mudstone and pale green/grey	115.0	118.0	3	3.0	100.0							
MELBA	MF74			siltstone. Minor carbonate veinlets and pale green	118.0	121.0	3	3.0	100.0							
MELBA	MF74			chlorite veinlets. No visual sulphides present. Minor	121.0	124.0	3	3.0	100.0							
MELBA	MF74			trace pyrite present. BCA at 45.3 is 54.	124.0	127.0	3	3.0	100.0							
MELBA	MF74	47.7	50.7	Pale green medium grained gabbro. Trace sulphides	127.0	128.3	1.2	1.3	92.3							
MELBA	MF74			within veinlets. Core tends broken. Abundant chlorite	128.3	130.0	1.6	1.7	94.1							
MELBA	MF74			alteration forming dark veinlets. Minor quartz veinlets	130.0	133.0	3	3.0	100.0							
MELBA	MF74			present. Irregular lower contact at 48 degrees.	133.0	136.0	3	3.0	100.0							
MELBA	MF74	50.7	78.7	Pale green/grey interbedded siltstones and sandstones.	136.0	139.0	3	3.0	100.0							
MELBA	MF74			Minor thin beds of conglomerate displaying both quartz	139.0	142.0	3	3.0	100.0							
MELBA	MF74			and mudstone clasts. Minor trace pyrite present within	142.0	145.0	3	3.0	100.0							
MELBA	MF74			both carbonate veinlets and along bedding. Minor	145.0	148.0	3	3.0	100.0							
MELBA	MF74			black graphitic thick laminations of mudstone. BCA at	148.0	151.0	3	3.0	100.0							
MELBA	MF74			52.6m is 58. BCA at 53.6m is 56. Thickly laminated	151.0	154.0	3	3.0	100.0							
MELBA	MF74			conglomerate beds decrease towards lower contact.	154.0	157.0	3	3.0	100.0							
MELBA	MF74			Mudstone beds increase towards lower contact. BCA	157.0	159.8	2.8	2.8	100.0							
MELBA	MF74			at 68.6m is 54.	159.8	160.7	0.9	0.9	100.0							
MELBA	MF74	78.7	86.1	banded Hematatitic/chlorite siltstone, grits and mudstone.	160.7	162.2	1.5	1.5	100.0							
MELBA	MF74			Interbedded graded mudstone, siltstone and gritty	162.2	165.3	3	3.1	96.8							
MELBA	MF74			sandstone. Grading up hole.	165.3	168.4	3	3.1	96.8							
MELBA	MF74			81.4m small puggy 10cm fault. Minor carbonate	168.4	171.5	3	3.1	96.8							

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF

MELBA	MF74			veinlets. BCA at 85m is 69. Minor cubes of pyrite	171.5	174.1	2.6	2.6	100.0							
MELBA	MF74			present.	174.1	177.2	3.1	3.1	100.0							
MELBA	MF74	86.1	90	Pale green interbedded siltstone/mudstone. Fine	177.2	180.3	3	3.1	96.8	88.8	89.9	200	110	n/a	n/a	1.67
MELBA	MF74			grained with abundant carbonate veinlets.	180.3	183.4	3	3.1	96.8	89.9	91.0	300	80	n/a	n/a	<0.02
MELBA	MF74			Minor disseminated Py present towards 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			BCA at 88m is 64. Lower contact appears to be	186.5	189.6	3.1	3.1	100.0	92.0	93.0	430	220	n/a	n/a	0.04
MELBA	MF74			gradation with lower contact.	189.6	192.7	3.1	3.1	100.0	93.0	94.0	360	90	n/a	n/a	<0.02
MELBA	MF74	90	94.9	Pale green spotted Gabbro	192.7	194.0	1.1	1.3	84.6	94.0	94.9	2890	1790	n/a	n/a	0.41
MELBA	MF74			Fine to coarse grained gabbro with minor carbonate	194.0	196.0	2	2.0	100.0	94.9	95.6	3500	2680	n/a	n/a	1.82
MELBA	MF74			qtz veins. Minor trace sulphides present. Sulphides	196.0	199.0	3	3.0	100.0							
MELBA	MF74			increase towards lower contact (base).	199.0	202.0	3	3.0	100.0							
MELBA	MF74			Hw contact appears to be at 73 CA?	202.0	205.0	3	3.0	100.0							
MELBA	MF74	94.9	95.1	Small iron/magnesium rich carbonate vein.	205.0	208.0	3	3.0	100.0							
MELBA	MF74			Abundant sphalerite and galena within veinlets. Minor	208.0	211.0	3	3.0	100.0							
MELBA	MF74			chlorite present. Vein at 63 CA. Large visible crystals	211.0	214.0	3	3.0	100.0							
MELBA	MF74			present within carbonate.	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	218.9	220.8	1.9	1.9	100.0							
MELBA	MF74			qtz veins. Minor trace sulphides present. Sulphides	220.8	223.0	2.2	2.2	100.0							
MELBA	MF74			increase towards lower contact (base). Sharp lower FW	223.0	224.5	1.5	1.5	100.0							
MELBA	MF74			contact at 59 CA.	224.5	227.0	2.5	2.5	100.0							
MELBA	MF74	95.6	115.4	Interbedded black mudstone and pale green/grey	227.0	229.0	2	2.0	100.0	114.6	115.4	100	100	n/a	n/a	0.65
MELBA	MF74			siltstone. Minor carbonate veinlets and pale green	229.0	232.0	3	3.0	100.0	117.5	118.2	140	120	n/a	n/a	1.00
MELBA	MF74			chlorite veinlets. Minor sulphides present within both	232.0	234.8	2.8	2.8	100.0							
MELBA	MF74			black mudstone beds and calcite veinlets. BCA at	234.8	237.9	3.1	3.1	100.0							
MELBA	MF74			103.5m is 57. Abundant carbonate and qtz veining	237.9	239.3	1.4	1.4	100.0							
MELBA	MF74			between 112.8m and 115m.	239.3	242.3	3	3.0	100.0							
MELBA	MF74	115.4	125.3	Pale green siltstone, sandstone and minor mudstone.	242.3	244.0	1.7	1.7	100.0							
MELBA	MF74			Minor small carbonate veinlets present. No visible	244.0	246.2	2.2	2.2	100.0							
MELBA	MF74			sulphides present. CBA at 123m is 31.	246.2	249.1	2.9	2.9	100.0							
MELBA	MF74	125.3	130.0	Interbedded black mudstone and pale green/grey	249.1	252.2	3.1	3.1	100.0							
MELBA	MF74			siltstone. Abundant carbonate veinlets and quartz	252.2	255.3	3.1	3.1	100.0							
MELBA	MF74			veinlets. BCA at m is Minor py present.	255.3	258.4	3.1	3.1	100.0							
MELBA	MF74			Upper sharp contact at 49 degrees. Fairly broken	258.4	261.5	3	3.1	96.8							
MELBA	MF74			ground.	261.5	264.5	3	3.0	100.0							
MELBA	MF74	130.0	135.7	Pale green siltstone, sandstone and minor mudstone.	264.5	267.6	3	3.1	96.8							
MELBA	MF74			Minor small carbonate veinlets present. No visible	267.6	270.7	3	3.1	96.8							
MELBA	MF74			sulphides present. CBA at 134m is 70. Younging	270.7	273.5	2.8	2.8	100.0							
MELBA	MF74			up hole. Gradational lower contact with hematitic	273.5	276.6	3.1	3.1	100.0							
MELBA	MF74			sandstone/siltstones.	276.6	279.7	3.1	3.1	100.0							
MELBA	MF74	135.7	140.0	Hematatitic sandstone, siltstone and mudstone	279.7	282.8	3.1	3.1	100.0							
MELBA	MF74			Interbedded graded mudstone, siltstone and coarse grained	282.8	285.9	3.1	3.1	100.0							
MELBA	MF74			sandstone. Grading up hole. BCA at 139.6m is 50	285.9	289.0	3.1	3.1	100.0							
MELBA	MF74			Minor carbonate veinlets present. Gradational	289.0	292.0	3	3.0	100.0							
MELBA	MF74			hematitic lower contact.	292.0	293.1	1.1	1.1	100.0							
MELBA	MF74	140.0	142.4	Pale green siltstone, sandstone and minor mudstone.	293.1	295.0	1.9	1.9	100.0							
MELBA	MF74			Minor small carbonate veinlets present. No visible	295.0	298.0	3	3.0	100.0							
MELBA	MF74			sulphides present. Younging up hole.	298.0	301.0	3	3.0	100.0							
MELBA	MF74	142.4	154.6	Hematatitic sandstone, siltstone and mudstone	301.0	304.0	3	3.0	100.0							
MELBA	MF74			Interbedded and graded coarse sandstone, siltstone and	304.0	305.3	1.3	1.3	100.0							
MELBA	MF74			mudstone. Grading up hole. BCA at 148m is 36. BCA at	305.3	306.7	1.4	1.4	100.0							
MELBA	MF74			146.5m is 60. Minor carbonate veinlets present.	306.7	309.8	3.1	3.1	100.0							
MELBA	MF74			Gradational hematitic lower contact. Bedding seems to	309.8	312.6	2.8	2.8	100.0							
MELBA	MF74			move around.	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	315.7	318.8	3.1	3.1	100.0							
MELBA	MF74			Minor small carbonate veinlets present. Minor trace	318.8	320.1	1.3	1.3	100.0							
MELBA	MF74			sulphides present. Younging up hole.	320.1	321.5	1.4	1.4	100.0							
MELBA	MF74			BCA at 157m is 47.	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			Fine to coarse grained gabbro with minor carbonate	327.7	330.8	3.1	3.1	100.0							
MELBA	MF74			qtz veins. Minor trace sulphides present. Sulphides	330.8	333.9	3.1	3.1	100.0							
MELBA	MF74			increase towards lower contact (base). Sharp lower FW	333.9	337.0	3.1	3.1	100.0							
MELBA	MF74			contact at 59 CA.	337.0	340.0	3	3.0	100.0							
MELBA	MF74	161.7	162.8	Fine grained pale green mudstone/siltstone. Graded	340.0	343.0	3	3.0	100.0	162.8	164.0	180	60	10	140	0.25
MELBA	MF74			beds present. Trace veinlets of sulphides present.	343.0	345.5	2.5	2.5	100.0	164.0	165.0	280	90	<10	110	<0.02
MELBA	MF74			CBA at 161m is 65. Gradational lower contact present.	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			Pale green medium grained gabbro. Trace sulphides	354.5	357.6	3.1	3.1	100.0	168.0	169.0	590	120	100	650	<0.02
MELBA	MF74			aswell as sphalerite and galena within carbonate veinlets.	357.6	359.9	2.3	2.3	100.0	174.6	175.6	330	110	20	110	<0.02
MELBA	MF74			Minor carbonate veinlets present. Minor sandstone	359.9	363.0	3.1	3.1	100.0	175.6	176.6	350	110	50	140	<0.02
MELBA	MF74			inclusions within gabbro. Sulphides more common	363.0	366.1	3.1	3.1	100.0							
MELBA	MF74			towards upper and lower contacts. Sulphides very	366.1	369.2	3.1	3.1	100.0							
MELBA	MF74			finely disseminated within matrix. Lower contact looks	369.2	372.3	3.1	3.1	100.0							
MELBA	MF74			to be gradational.	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	375.3	378.4	3.1	3.1	100.0							
MELBA	MF74			Large pyrite cubes present and trace sulphides present	378.4	381.5	3.1	3.1	100.0							
MELBA	MF74			within matrix. Younging up hole. CBA at 180.7m is 40.	381.5	384.6	3.1	3.1	100.0							
MELBA	MF74	182.1	185.1	Pale red hematitic siltstone and sandstone.	384.6	387.7	3.1	3.1	100.0							
MELBA	MF74			Interbedded graded siltstone and sandstone with	387.7	390.8	3.1	3.1	100.0							
MELBA	MF74			abundant carbonate veinlets. BCA 184.1m is 40. Minor	390.8	393.9	3.1	3.1	100.0							
MELBA	MF74			barren carbonate veining.	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	397.0	400.0	3	3.0	100.0	193.5	194.0	100	360	2400	17900	4.63
MELBA	MF74			2 generations of carbonate veinlets. CBA at 186.1m is	400.0	403.0	3	3.0	100.0							
MELBA	MF74			42. some minor massive beds aswell as graded beds.	403.0	404.6	1.6	1.6	100.0							
MELBA	MF74	193.0	193.5	Cream fine grained chert.	404.6	405.1	0.5	0.5	100.0							
MELBA	MF74			Carbonate altered cherty sediment. Abundant carbonate	405.1	406.1	1	1.0	100.0							
MELBA	MF74			veinlets.	406.1	406.7	0.6	0.6	100.0							
MELBA	MF74	193.5	194.0	Carbonate replaced fault zone.	406.7	407.4	0.7	0.7	100.0							
MELBA	MF74			Abundant iron/magnesium rich carbonate with minor	407.4	407.7	0.3	0.3	100.0							
MELBA	MF74			sphalerite and galena present. Low angle upper	407.7	408.0	0.2	0.3	66.7							
MELBA	MF74			contact at 20 CA.	408.0	408.6	0.6	0.6	100.0							
MELBA	MF74	194.0	196.3	Cream fine grained chert.	408.6	411.7	3.1	3.1	100.0							
MELBA	MF74			Carbonate altered cherty sediment. Abundant carbonate	411.7	414.4	2.6	2.7	96.3							
MELBA	MF74			veinlets. Minor bedding present. Trace sphalerite and	414.4	416.5	1.8	2.1	85.7							
MELBA	MF74			galena present.	416.5	419.6	3.1	3.1	100.0							
MELBA	MF74	196.3	201.7	Hematatitic sandstone, siltstone and mudstone with	419.6	422.7	3.1	3.1	100.0							
MELBA	MF74			minor bands of pale green sandstone and siltstone.	422.7	425.2	2.5	2.5	100.0							

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MELBA	MF74			Interbedded and graded coarse sandstone, siltstone and	425.2	427.0	1.8	1.8	100.0								
MELBA	MF74			mudstone. Grading up hole. BCA at 199.5m is 58.	427.0	428.1	1.1	1.1	100.0								
MELBA	MF74			Minor carbonate veinlets present. Gradational hematitic	428.1	430.0	1.9	1.9	100.0								
MELBA	MF74			lower contact.	430.0	433.0	2	3.0	66.7								
MELBA	MF74	201.7	213.7	Pale green siltstone, sandstone and minor mudstone.	433.0	434.5	1.5	1.5	100.0								
MELBA	MF74			Minor small carbonate veinlets present. Minor sulphide	434.5	437.6	3.1	3.1	100.0								
MELBA	MF74			present Py?. CBA at 209m is 58. Abundant carbonate	437.6	440.7	3.1	3.1	100.0								
MELBA	MF74			veining towards lower contact. Beds tend to be both	440.7	443.8	3.1	3.1	100.0								
MELBA	MF74			disrupted and graded Sharp lower contact with small	443.8	446.9	3	3.1	96.8								
MELBA	MF74			sheared fault zone/disrupted zone.	446.9	450.0	3	3.1	96.8								
MELBA	MF74	213.7	214.5	Small fault zone with minor puggy shears and carbonate	450.0	452.0	2	2.0	100.0	213.8	214.8	110	100	8630	16100	1.34
MELBA	MF74			veining. Core tends to be brecciated with a carbonate						214.8	215.8	100	180	3170	15600	0.93
MELBA	MF74			matrix. Minor sphalerite and galena with Cb veining.						215.8	216.8	90	70	2390	12400	0.69
MELBA	MF74			Low contact is at 33 degrees to core axis.						216.8	217.8	70	30	1770	5420	0.30
MELBA	MF74	214.5	224.2	Pale light green/grey sandstone and siltstone..						217.8	218.8	100	20	440	3440	0.26
MELBA	MF74			Abundant sphalerite and galena within Cb veinlets. Iron						218.8	219.8	70	40	540	4320	0.31
MELBA	MF74			or magnesium type carbonate. Carbonate veins CA at 47.						219.8	220.8	50	100	110	350	0.05
MELBA	MF74			core tends to be leached.						220.8	221.8	140	330	420	4680	0.19
MELBA	MF74	224.2	224.9	Pale green sandstone/siltstone with abundant sulphide						221.8	223.0	100	70	290	990	0.02
MELBA	MF74			veinlets. Two generations of carbonate veinlets. The						223.0	224.2	380	2270	n/a	n/a	0.20
MELBA	MF74			later veinlets carbonate veinlets are not mineralised.						224.2	224.9	90	90	n/a	n/a	6.35
MELBA	MF74			The eariler carbonate veinlets are mineralised and						224.9	225.7	220	150	n/a	n/a	0.14
MELBA	MF74			visible Cpy and Py is present. Sulphide have mineralised												
MELBA	MF74			along the top of a small gabbro. 30% sulphides stringers												
MELBA	MF74			and 70% sandstone and siltstone.												
MELBA	MF74	224.9	225.7	Dark green gabbro												
MELBA	MF74			Trace sulphides present. Gabbro tends to be fairly fine												
MELBA	MF74			grained. Two types of barren carbonate present. Gabbro												
MELBA	MF74			has a slightly mottled texture. Irregular upper contact												
MELBA	MF74			CA at ?. Lower contact at 225.7m is 72.												
MELBA	MF74	225.7	227.8	Pale green graded siltstone and sandstone beds.												
MELBA	MF74			2 types of barren carbonate veinlets present. Beds tend												
MELBA	MF74			to be both graded and massive. Beds tend to be slightly												
MELBA	MF74			disrupted. CBA at 226.5m is 65. Gradational lower												
MELBA	MF74			contact.												
MELBA	MF74	227.8	244.8	Hematatitic sandstone, siltstone and mudstone with						244.8	246.2	50	50	240	7700	0.49
MELBA	MF74			minor bands of pale green sandstone and siltstone.												
MELBA	MF74			Interbedded and graded coarse sandstone, siltstone and												
MELBA	MF74			mudstone. Grading up hole. BCA at 235m is 76.												
MELBA	MF74			Minor carbonate veinlets present. Faulted lower contact.												
MELBA	MF74			CBA at 230m is 60. Minor conglomeritic beds upto 10cm												
MELBA	MF74	244.8	246.2	Large carbonate filled fault zone. Minor disseminated												
MELBA	MF74			sphalerite present. Core tends to be slightly brecciaed												
MELBA	MF74			with angular clasts of sandstone present. Upper contact												
MELBA	MF74			at 36 degrees.												
MELBA	MF74	246.2	254.5	Pale green graded siltstone and sandstone beds.												
MELBA	MF74			Beds tend to be both graded and massive. Fine to medium												
MELBA	MF74			grained sandstone beds. Beds tend to be slightly												
MELBA	MF74			disrupted. CBA at 253 m is 60. Sharp faulted lower												
MELBA	MF74			contact.												
MELBA	MF74	254.5	254.8	Small carbonate broken fault. No sulphides present.												
MELBA	MF74			Upper contact at 50 degrees. Broken lower contact.												
MELBA	MF74	254.8	254.8	Pale green graded siltstone and sandstone beds.												
MELBA	MF74			Beds tend to be both graded and massive. Fine to medium												
MELBA	MF74			grained sandstone beds. Beds tend to be slightly												
MELBA	MF74			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						262.5	263.5	260	120	n/a	n/a	<0.02
MELBA	MF74			veinlets present, with trace Cpy. Abundant pyroxene						263.5	264.5	250	70	n/a	n/a	<0.02
MELBA	MF74			and feldspar needle like crystals. Minor pyrite present.						264.5	265.5	270	90	n/a	n/a	<0.02
MELBA	MF74			Gradational upper contact and sharp faulted lower						265.5	266.5	250	90	n/a	n/a	<0.02
MELBA	MF74			contact with carbonate veining at CA 20. Disseminated						266.5	267.5	260	90	n/a	n/a	<0.02
MELBA	MF74			sulphides more common around Cb veinlets. Minor						267.5	268.5	210	90	n/a	n/a	0.06
MELBA	MF74			tremolite or actinolite? alteration with minor disseminated						268.5	269.5	230	90	n/a	n/a	0.09
MELBA	MF74			sulphides.						269.5	270.5	280	100	n/a	n/a	<0.02
MELBA	MF74	288.7	302.4	Pale green graded siltstone and sandstone beds.						270.5	271.5	280	100	n/a	n/a	0.20
MELBA	MF74			Beds tend to be both graded and massive. Fine to						271.5	272.5	210	90	n/a	n/a	<0.02
MELBA	MF74			medium grained sandstone beds. Beds tend to be						272.5	273.5	130	70	n/a	n/a	0.05
MELBA	MF74			slightly disrupted. Younging up hole. CBA at 297 is 76.						273.5	274.5	160	80	n/a	n/a	<0.02
MELBA	MF74									274.5	275.5	160	90	n/a	n/a	<0.02
MELBA	MF74	302.4	302.7	Small infilled fault						275.5	276.5	200	70	n/a	n/a	<0.02
MELBA	MF74			Abundant sphalerite, galena and chalcopyrite within a						276.5	277.5	330	80	n/a	n/a	<0.02
MELBA	MF74			carbonate infilled fault zone. 2 types of carbanate						288.7	289.7	170	90	n/a	n/a	0.81
MELBA	MF74			veinlets. Lower contact at CA 71.												
MELBA	MF74	302.7	323.5	Pale green graded siltstone and sandstone beds.						302.4	302.7	60	1520	8050	59200	4.02
MELBA	MF74			Beds tend to be both graded and massive. Fine to						323.5	324.5	120	50	n/a	n/a	<0.02
MELBA	MF74			medium grained sandstone beds. Beds tend to be						324.5	325.5	90	50	n/a	n/a	0.18
MELBA	MF74			slightly disrupted. Gradational lower contact with gabbro						325.5	326.5	30	60	n/a	n/a	0.90
MELBA	MF74			Younging up hole. CBA at 213.7m is 70.						326.5	327.5	20	60	n/a	n/a	0.93
MELBA	MF74	323.5	328.5	Coarse grained gabbro.						327.5	328.5	30	80	280	710	0.68
MELBA	MF74			Abundant disseminated sulphides Pe? Present within						328.5	328.9	30	1010	48000	95600	6.15
MELBA	MF74			a coarse grained gabbro. Abundant needle like crystal						328.9	329.9	30	60	1570	2370	0.22
MELBA	MF74			structures possible pyroxenes and feldspars? Minor						329.9	330.9	40	60	n/a	n/a	0.06
MELBA	MF74			tremolite or actinolite alteration flooding? 2 types of						330.9	331.9	70	50	n/a	n/a	0.09
MELBA	MF74			carbonate veinlets.						331.9	333.0	90	60	n/a	n/a	0.03
MELBA	MF74	328.5	328.9	Small infilled fault						333.0	334.0	240	80	n/a	n/a	<0.02
MELBA	MF74			Abundant sphalerite, galena, chalcopyrite and						334.0	335.0	280	70	n/a	n/a	<0.02
MELBA	MF74			pentlandite within a carbonate infilled fault zone. 2 types						335.0	336.0	390	70	n/a	n/a	<0.02
MELBA	MF74			of carbanate veinlets. Shape faulted upper contact at						336.0	337.0	390	60	n/a	n/a	<0.02
MELBA	MF74			34 CA . Sharp faulted lower contact at 35 CA.						337.0	338.0	930	270	n/a	n/a	0.29
MELBA	MF74	328.9	342.4	Medium grained gabbro.						338.0	339.0	1170	270	n/a	n/a	0.68
MELBA	MF74			Abundant serpentine veinlets with minor disseminated						339.0	340.0	1240	330	n/a	n/a	0.65
MELBA	MF74			sulphides present. Alteration type changes at 336m						340.0	341.0	1060	200	n/a	n/a	0.18
MELBA	MF74			from a actinolite/tremolite altered volcanic to a spotted						341.0	342.0	1200	120	n/a	n/a	<0.02
MELBA	MF74			yellow epidote/sercite altered gabbro? Trace disseminated												
MELBA	MF74			sulphides. Minor carbonate veinlets but abundant Sp												
MELBA	MF74			veinlets. Epidote/sercite have totally replace the feldspars.												
MELBA	MF74	342.4	358.8	Interbedded mudstone, siltstone and sandstone beds.						348.5	349.6	100	90	n/a	n/a	0.75

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MELBA	MF74			Beds tend to be both graded and massive. Fine to													
MELBA	MF74			medium grained pale green sandstone beds. Beds tend													
MELBA	MF74			to be slightly disrupted and minor conglomeritic beds.													
MELBA	MF74			Abundant thinnly bedded black mudstone with minor													
MELBA	MF74			sulphides. Minor carbonate veinlets present with trace													
MELBA	MF74			sulphides. Younging up hole. CBA at 349m is 75.													
MELBA	MF74			Gradational lower contact.													
MELBA	MF74																
MELBA	MF74	358.8	403.8	Pale green massive to graded grity sandstone with minor						374.2	375.2	120	80	n/a	n/a	0.24	
MELBA	MF74			black mudstone beds present. Minor carbonate and						375.2	376.2	110	60	n/a	n/a	0.27	
MELBA	MF74			quartz veinlets with minor sulphides present. Minor						376.2	377.2	90	80	n/a	n/a	0.33	
MELBA	MF74			sulphides present along foliation. Grading/younging up						377.2	378.2	90	70	n/a	n/a	0.83	
MELBA	MF74			hole. BCA at 360m is 56. Slightly disrupted sandstone						378.2	379.2	110	80	n/a	n/a	0.78	
MELBA	MF74			beds with minor floating large clasts. BCA at 369.2M is						384.2	385.2	80	50	n/a	n/a	0.47	
MELBA	MF74			62. BCA at 391.5m is 65. BCA at 402.5m is 55.						399.5	400.5	110	60	6010	2430	0.17	
MELBA	MF74	403.8	404.2	Light brown carbonate vein. Healed fault zone?.						403.8	404.2	50	270	2220	24400	1.70	
MELBA	MF74			Abundant sphalerite veinlets and trace galena present.													
MELBA	MF74			Trace pyrite present?. Upper contact at 54 degrees.													
MELBA	MF74			Lower contact at 59 degrees. Minor quartz veinlets													
MELBA	MF74			present. Fe or Mg rich carbonate.													
MELBA	MF74	404.2	412.6	Pale green massive to graded grity sandstone with						412.6	413.6	110	110	n/a	n/a	2.13	
MELBA	MF74			minor laminae of black mudstone present. Minor						413.6	414.6	100	90	n/a	n/a	0.77	
MELBA	MF74			carbonate and quartz veinlets with minor sulphides													
MELBA	MF74			present. Minor sulphides present along foliation.													
MELBA	MF74			Grading/younging up hole. BCA at 408m is 54. Minor Cb Vns													
MELBA	MF74	412.6	416.5	Thickly bedded black pyritic/graphitic mudstone beds													
MELBA	MF74			with minor thick disrupted siltstone beds. Minor													
MELBA	MF74			carbonate and quartz veinlets with minor sulphides													
MELBA	MF74			present. Minor disseminated sulphides .													
MELBA	MF74			Mudstone and pale green siltstone beds tend to be													
MELBA	MF74			disrupted.													
MELBA	MF74	416.5	416.6	Minor small broken fault. Lower contact at 60 degrees.													
MELBA	MF74	416.6	437.8	Pale green massive to graded grity sandstone with minor													
MELBA	MF74			black mudstone laminations present. Minor barren													
MELBA	MF74			carbonate and quartz veinlets Trace sulphides present.													
MELBA	MF74			Grading/younging up hole. BCA at 420m is 57.													
MELBA	MF74			BCA at 423m is 34. BCA at 430m is 51.													
MELBA	MF74	437.8	443.4	Thickly bedded black pyritic/graphitic mudstone beds						437.6	438.6	100	80	n/a	n/a	1.63	
MELBA	MF74			with minor thick disrupted siltstone beds. Minor						438.6	439.6	100	90	n/a	n/a	2.37	
MELBA	MF74			carbonate and quartz veinlets with abundant sulphides						439.6	440.6	80	90	n/a	n/a	2.66	
MELBA	MF74			present. Minor disseminated sulphides along foliation.						440.6	441.6	90	90	n/a	n/a	2.78	
MELBA	MF74			Mudstone and pale green siltstone beds tend to be													
MELBA	MF74			disrupted. Gradational lower contact. BCA at 439m is 44.													
MELBA	MF74			Younging up hole.													
MELBA	MF74	443.4	452	Pale green massive to graded grity sandstone with minor						448.9	450.0	110	90	n/a	n/a	0.75	
MELBA	MF74			black mudstone laminations present. Minor carbonate						450.0	451.0	110	30	n/a	n/a	0.29	
MELBA	MF74			and quartz veinlets with minor sulphides. Minor													
MELBA	MF74			sulphides present within mudstone beds.													
MELBA	MF74			Grading/younging up hole. BCA at 447m is 42.													
MELBA	MF74			Minor carbonate vein with trace sulphides present													
MELBA	MF74			between 450.8m to 451m.(Ankerite or siderite carbonate)													
MELBA	MF74			EOH at 452m.													