COMPANY	**ALLEGIANCE MINING NL**
PROJECT	**MELBA FLATS EL 43/1992**
HOLE NUMBER	**MF72**

Commenced	**9/10/06**
Completed	**19/10/06**
Logged by	**ANDRE MUELLER**
Drilled by	**ALMAC-38-Noel**

Collar Details

Grid	
Easting	**366721.414**
Northing	**5367178.709**
Elevation	**214.881**
Dip	**52° 4'**
Bearing	**271°05'**

LENGTH (m)	**199m**

Hole Size

To (m)	Size
0m-79m	HQ
79m-EOH	NQ

Purpose of Hole

Testing IP anomoly along the old Melba Flats railway line. Rig Parked on road.

Assays

No significant assays reported.

Major core losses:

From	To	% rec

Hole Completion Condition

PVC pipe in hole collar.
All casing removed, drill site cleaned.
Major core losses noted at top of hole. 0m to 70m.

Assay Summary

Rock Type	From	To			

Down Hole Survey

Depth	Dip	Mag Brg	Grid Brg
50	-53	260	274
100	-53	260	274
150	-52	262	276

Notes on Surveys

Last survey down hole not completed.
No survey film left.

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	3.0	4.0	0.0							
MELBA	MF72			sandstone with minor siltstone laminations. Minor	4.0	4.5	100.0							
MELBA	MF72			remanent mica grains and weathered feldspar grained.	4.5	5.3	100.0							
MELBA	MF72			Core extremely broken.	5.3	7.0	94.1							
MELBA	MF72	8.4	8.6	Small puggy fault zone. Very fine grained puggy silty	7.0	8.5	60.0							
MELBA	MF72			fault zone. Core extremely broken	8.5	10.0	53.3							
MELBA	MF72	8.6	12	Weathered gritty fine grained quartz sandstone with	10.0	11.0	0.0							
MELBA	MF72			thinly bedded siltstone beds. Minor remanent	11.0	12.0	80.0							
MELBA	MF72			weathered mica grains and feldspars. Core tends to be	12.0	13.0	40.0							
MELBA	MF72			leached and broken.	13.0	14.0	70.0							
MELBA	MF72	12	13.1	Puggy fault zone, core extremely broken with abundant	14.0	14.5	60.0							
MELBA	MF72			clays.	14.5	15.7	91.7							
MELBA	MF72	13.1	20.2	Interbedded pale green/grey fine grained siltstone and	15.7	17.2	80.0							
MELBA	MF72			medium grained sandstone. Graded and massive beds.	17.2	19.2	90.0							
MELBA	MF72			Beds are grading/younging up hole. At 16m Bd is 40.	19.2	20.6	85.7							
MELBA	MF72			Remanent feldspar grains and mica grains. Predominately	20.6	22.0	57.1							
MELBA	MF72			a gritty quartz sandstone.	22.0	23.0	70.0							
MELBA	MF72	20.2	20.6	Puggy fault zone, core extremely broken with abundant	23.0	25.0	55.0							
MELBA	MF72			clays. Ft at 40	25.0	26.5	53.3							
MELBA	MF72	20.6	23.8	Weathered gritty fine grained quartz sandstone with	26.5	27.8	53.8							
MELBA	MF72			thinly bedded siltstone beds. Minor remanent	27.8	29.0	83.3							
MELBA	MF72			weathered mica grains and feldspars. Core tends to be	29.0	30.0	60.0							
MELBA	MF72			leached and broken.	30.0	31.0	30.0							
MELBA	MF72	23.8	25	Puggy fault zone, core extremely broken with abundant	31.0	31.6	33.3							
MELBA	MF72			clays.	31.6	32.8	50.0							
MELBA	MF72	25	37.7	Weathered gritty pale green/grey fine grained quartz sandstone	32.8	34.0	33.3							
MELBA	MF72			with thinly bedded siltstone beds and fine graphitic/pyritic	34.0	34.5	30.0							
MELBA	MF72			black shale laminations. Minor remanent weathered mica	34.5	35.1	25.0							
MELBA	MF72			grains and feldspars. Core tends to be leached and	35.1	35.7	25.0							
MELBA	MF72			broken.	35.7	36.4	0.0							
MELBA	MF72	37.7	40.2	Large graphitic black shale fault zone. Minor carbonate	36.4	36.8	0.0							
MELBA	MF72			present and disseminated pyrite. Core extremely puggy	36.8	37.0	0.0							
MELBA	MF72			and broken.	37.0	37.3	0.0							
MELBA	MF72	40.2	41.5	Interbedded pale green/grey fine grained siltstone and	37.3	38.0	0.0							
MELBA	MF72			fine graded sandstone, minor laminae of black graphitic shale.	38.0	38.6	50.0							
MELBA	MF72			Minor carbonate veinlets. BCA 85. Minor folding present.	38.6	39.2	33.3							
MELBA	MF72	41.5	43.1	Black graphitic/pyritic shales. Thinly laminated.	39.2	40.0	50.0							
MELBA	MF72			BCA 73. Abundant graphitic faces. Minor vugs with	40.0	41.5	53.3							
MELBA	MF72			abundant fine cubic pyrite cubes. Core broken with	41.5	43.0	100.0							
MELBA	MF72			abundant folding.	43.0	44.5	86.7							
MELBA	MF72	43.1	44.6	Weathered gritty pale green/grey fine grained quartz sandstone	44.5	46.0	73.3							
MELBA	MF72			with thinly bedded siltstone beds and fine graphitic/pyritic	46.0	47.0	90.0							
MELBA	MF72			black shale laminations. Minor remanent weathered mica	47.0	48.1	63.6							
MELBA	MF72			grains and feldspars. Core tends to be leached and	48.1	49.0	100.0							
MELBA	MF72			broken.	49.0	51.6	73.1							
MELBA	MF72	44.6	44.9	Small puggy fault zone, core extremely broken with abundant	51.6	52.6	60.0							
MELBA	MF72			clays.	52.6	53.6	50.0							
MELBA	MF72	44.9	87.9	Weathered interbedded pale/light green/grey siltstone and	53.6	54.2	50.0							
MELBA	MF72			minor fine grained sandstone. Minor laminae of	54.2	55.0	87.5							
MELBA	MF72			graphitic/pyritic black shale. Abundant sheared small	55.0	56.0	100.0							
MELBA	MF72			puggy faults upto 2cm. BCA at 46m 52. BCA at 59m 68.	56.0	57.1	72.7							
MELBA	MF72			Minor small vugs present. Minor Cb veinlets. Minor Py	57.1	58.0	55.6							
MELBA	MF72			present. BCA at 80.7m 58	58.0	59.4	71.4							
MELBA	MF72	87.9	89.2	Small puggy/gritty fault zone. Minor carbonate veining.	59.4	61.0	56.3							
MELBA	MF72			core extremely broken. Ft 70	61.0	62.0	90.0							
MELBA	MF72	89.2	90.9	Dark black graphitic/pyritic shale. Finely laminated with	62.0	62.3	100.0							
MELBA	MF72			thin bands of pyrite upto 1mm thick. Abundant carbonate	62.3	62.8	100.0							
MELBA	MF72			veinlets. Minor thick laminations of fine grained	62.8	63.9	100.0							
MELBA	MF72			sandstone. Minor blebs of pyrite present. Minor vugs	63.9	65.6	17.6							
MELBA	MF72			present.	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	92.9	94.4	Disrupted pale green fine grained sandstone with silty	68.0	69.0	30.0							
MELBA	MF72			tops. Minor carbonate veinlets. Minor brecciaed	69.0	70.0	50.0							
MELBA	MF72			sandstone filled with a mudstone matrix. Minor fine	70.0	71.0	80.0							
MELBA	MF72			grained py present.	71.0	71.9	100.0							
MELBA	MF72	94.4	94.6	Small graphitic/pyritic puggy fault zone. Core extremely	71.9	72.2	100.0							
MELBA	MF72			broken.	72.2	72.8	100.0							
MELBA	MF72	94.6	97.2	Dark black graphitic/pyritic shale. Finely laminated with	72.8	73.6	100.0							
MELBA	MF72			thin bands of pyrite upto 1mm thick. Abundant carbonate	73.6	74.9	100.0							
MELBA	MF72			veinlets. Minor thick laminations of fine grained	74.9	76.0	100.0							
MELBA	MF72			sandstone. Minor blebs of pyrite present. Minor vugs	76.0	79.0	100.0							
MELBA	MF72			present. BCA at 96.5m 72.	79.0	80.0	100.0							
MELBA	MF72	97.2	102.1	Disrupted and graded pale green fine grained sandstone	80.0	81.9	100.0							
MELBA	MF72			with silty tops. Minor carbonate veinlets. Minor brecciaed	81.9	83.8	100.0							
MELBA	MF72			sandstone filled with a mudstone matrix. Minor fine	83.8	85.2	85.7							
MELBA	MF72			grained py present. BCA at 100.4m 69.	85.2	85.8	100.0							
MELBA	MF72			Grading/younging up hole.	85.8	86.4	100.0							
MELBA	MF72	102.1	103	Disrupted dark black graphitic/pyritic shale, minor small	86.4	87.4	80.0							
MELBA	MF72			clast of siltstone and minor graded sandstone beds	87.4	89.2	50.0							
MELBA	MF72			present.	89.2	91.0	72.2							
MELBA	MF72	103	122.8	Graded, massive and disrupted fine grained pale green	91.0	91.7	57.1							
MELBA	MF72			sandstone beds with silty tops. Minor pyritic black shaly	91.7	92.6	33.3							
MELBA	MF72			beds and thick laminations present. Abundant white	92.6	94.0	100.0							
MELBA	MF72			carbonate veinlets present. Minor soft sediment	94.0	95.7	100.0							
MELBA	MF72			deformation present. BCA at 114m 48.	95.7	97.0	100.0							
MELBA	MF72	122.8	123.7	Dark black graphitic/pyritic shale. Finely laminated with	97.0	100.0	100.0							
MELBA	MF72			thin bands of pyrite upto 1mm thick. Abundant carbonate	100.0	103.0	100.0							
MELBA	MF72			veinlets. Minor thick laminations of fine grained	103.0	105.5	100.0							
MELBA	MF72			sandstone. Minor blebs of pyrite present.	105.5	108.6	100.0							
MELBA	MF72			BCA at 122.8m 55.	108.6	111.7	100.0							

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MELBA	MF72	123.7	149.6	Interbedded bedded black pyritic shale and graded Pgreen	111.7	114.8	100.0							
MELBA	MF72			sandstone with silty tops. Abundant carbonate veinlets	114.8	117.9	100.0							
MELBA	MF72			with minor pyrite present. BCA at 140m 71.	117.9	120.9	100.0							
MELBA	MF72			BCA at 153m 71. Sandstone beds suggest up hole	120.9	124.0	96.8							
MELBA	MF72			grading. <1mm pyrite veinlets and pyrite conformable	124.0	127.0	100.0							
MELBA	MF72			with shale beds. No other sulphides recognised.	127.0	130.0	100.0							
MELBA	MF72			Gradational lower contact.	130.0	133.0	100.0							
MELBA	MF72	149.6	162.2	Dark to pale green gabbro. Sharp lower contact 65d	133.0	136.0	100.0							
MELBA	MF72			Upper contact at 50d. Gabbro tends to be grading up	136.0	139.0	100.0	160.0	161.2	0.039	0.014	<0.02		
MELBA	MF72			hole from coarse to fine grained. Minor disseminated	139.0	142.0	100.0	161.2	162.2	0.049	0.017	<0.02		
MELBA	MF72			sulphides present. Not magnetic. Minor carbonate	142.0	145.0	100.0							
MELBA	MF72			veinlets.	145.0	148.0	100.0							
MELBA	MF72	162.2	172.2	Disrupted pale green fine grained sandstone with silty	148.0	151.0	100.0							
MELBA	MF72			tops. Minor carbonate veinlets. Minor brecciaed	151.0	154.0	100.0							
MELBA	MF72			sandstone filled with a mudstone matrix. Minor fine	154.0	156.8	100.0							
MELBA	MF72			grained py present. Grading up hole. BCA at 164m 70.	156.8	159.9	100.0							
MELBA	MF72			Minor Gabbro beds upto 30cm in thickness towards	159.9	163.0	100.0							
MELBA	MF72			lower contact	163.0	166.0	100.0							
MELBA	MF72	172.2	175.2	Dark to pale green gabbro. Sharp upper contact 70d,	166.0	168.2	100.0	172.2	173.2	0.03	0.01	<0.02		
MELBA	MF72			gradation lower contact. Fine to coarse grained gabbro	168.2	169.4	100.0							
MELBA	MF72			Minor disseminated fine grained sulphides present.	169.4	172.0	92.3							
MELBA	MF72			Not magnetic. Minor carbonate veinlets present.	172.0	175.0	100.0							
MELBA	MF72	175	176.5	Graded and massive pale green to dark grey fine grained	175.0	178.0	100.0	178.5	179.8	0.01	0.143	<0.02		
MELBA	MF72			sandstone with silty tops. BCA at 176.5m 62d. Minor	178.0	181.0	100.0							
MELBA	MF72			disseminated Py present along bedding.	181.0	184.0	100.0							
MELBA	MF72	176.5	177.3	Dark to pale green gabbro. Irregular upper contact.	184.0	187.0	100.0							
MELBA	MF72			sharp lower contact at 43 degrees. Fine to coarse	187.0	190.0	100.0							
MELBA	MF72			grained gabbro. Gabbro tends to be sheared with	190.0	193.0	100.0							
MELBA	MF72			abundant carbonate veinlets/alteration. Minor	193.0	196.0	100.0							
MELBA	MF72			disseminated fine grained sulphides present.	196.0	197.3	100.0							
MELBA	MF72	177.3	183.2	Graded, massive and disrupted pale green to dark grey	197.3	199.0	82.4							
MELBA	MF72			fine grained sandstone with silty tops. BCA at 181m 54d.	199.0	EOH								
MELBA	MF72			Minor disseminated Py present along bedding. Minor										
MELBA	MF72			carbonate veinlets present with minor Cpy present.										
MELBA	MF72			Minor disseminated Py present.										
MELBA	MF72	183.2	187	Disrupted thickly laminated to thinly bedded black										
MELBA	MF72			graphitic/pyritic shale and silty pale grey/green siltstone.										
MELBA	MF72			Abundant carbonate veinlets. Minor sphalerite noted with										
MELBA	MF72			in carbonate veinlets. Pyrite common within black shale.										
MELBA	MF72			BCA at 186m 56d. Gradational lower contact.										
MELBA	MF72	187	189.2	Graded, massive and disrupted pale green to dark grey				189.2	190.2	0.031	0.014	<0.02		
MELBA	MF72			fine grained sandstone with silty tops. BCA at 187.6m 68d.										
MELBA	MF72			Minor disseminated Py present along bedding. Minor										
MELBA	MF72			carbonate veinlets with py present.										
MELBA	MF72	189.2	190.9	Dark to pale green gabbro. Faulted upper contact with										
MELBA	MF72			small carbonate veinlets. Sharp lower contact at 48										
MELBA	MF72			degrees. Fine to medium grained gabbro.										
MELBA	MF72			Minor disseminated fine grained sulphides present.										
MELBA	MF72	190.9	196	Graded and massive pale green to dark grey fine				195.9	197.0	0.018	0.013	1.75		
MELBA	MF72			grained sandstone with silty tops. BCA at 191.8m 47d.										
MELBA	MF72			Minor disseminated Py present along bedding. Minor										
MELBA	MF72			carbonate veinlets.										
MELBA	MF72	196	197	Leached broken fine grained sandstone with abundant										
MELBA	MF72			sphalerite and galena joints/shears. Slight green										
MELBA	MF72			alteration, chlorite?. Numerous small carbonate veinlets.										
MELBA	MF72			Minor pyrite present.										
MELBA	MF72	197	199	Light grey fine to medium grained sandstone with silty tops.										
MELBA	MF72			Minor grading, with predominately massive sandstone beds										
MELBA	MF72			present. BCA at 198m 45d. Minor barren carbonate alteration.										
MELBA	MF72			EOH 199m.										