COMPANY	**ALLEGIANCE MINING NL**
PROJECT	**MELBA FLATS EL 43/1992**
HOLE NUMBER	**MF 77**

Commenced	**1/12/06**
Completed	**7/12/06**
Logged by	**Mueller**
Drilled by	**Noel - Almac**

Collar Details

Grid	**GDA94**
Easting	**366426.79**
Northing	**5365944.88**
Elevation	**200.32**
Dip	**-90**
Bearing	**0**

LENGTH (m)	**160**

Hole Size

To (m)	**Size**
0m-160m	**HQ**

Purpose of Hole

Nickel Reward.
Vertical Hole

Comments on Completion

Anomolous Ni and Cu between 51.6m and 53.2m. :1.6m 0.26% Ni 0.2% Cu

Major core losses:

From	**To**	**% rec**

Hole Completion Condition

Collar pipe inserted into hole.
No Drill rods left in hole, hole cleared.

Assay Summary

Rock Type	**From**	**To**			

Down Hole Survey

Depth	**Dip**	**Mag Brg**	**Grid Brg**
50	**-89**	**275**	**289**
100	**-88**	**277**	**291**
150	**-88**	**290**	**304**

Notes on Surveys

ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 77

Project	Hole ID	Log		Description	Recovery			Assays			
		From	To		From	To	%	From	To	% Ni	% Cu
MELBA	MF77	**0.00**	**2.50**	**Clay**	0	3.5	85.71	10.40	11.50	0.02	0.014
MELBA	MF77			Extremely broken liminite clays. Minor geothite joints	3.5	4.5	60	11.50	12.50	0.011	0.006
MELBA	MF77			present. Extremely puggy.	4.5	5.9	64.29	30.30	31.30	0.005	0.002
MELBA	MF77	**2.50**	**4.50**	**Orange/yellow weathered siltstone/ sandstone.**	5.9	7	90.91	31.30	32.30	0.012	0.026
MELBA	MF77			Core extremely broken and liminite weathered.	7	8	100	32.30	33.30	0.013	0.014
MELBA	MF77	**4.50**	**10.30**	**Pale green siltstone-mudstone-sandstone-grits**	8	9	60	33.30	34.30	0.038	0.005
MELBA	MF77			Core extremely broken with abundant small puggy/grit	9	10	70	34.30	35.30	0.064	0.024
MELBA	MF77			zones. Minor thickly laminated black mudstone and pale	10	11	90	35.30	36.30	0.077	0.013
MELBA	MF77			green siltstone with thickly bedded pale green sandstone.	11	12	90	36.30	37.20	0.056	0.053
MELBA	MF77	**10.30**	**11.50**	**Pale green gabbro.**	12	13	100	37.20	38.20	0.012	0.009
MELBA	MF77			Medium grained pale green gabbro. Trace sulphides	13	15	100				
MELBA	MF77			present. Irregular undulating lower contact. Sharp 47	15	16	100				
MELBA	MF77			degree upper contact. Slightly weathered.	16	19	100				
MELBA	MF77	**11.50**	**13.60**	**Pale green sandstone-siltstone.**	19	22	100				
MELBA	MF77			Slightly weathered with minor vuggs. Minor carbonate	22	25	100				
MELBA	MF77			veinlets present. Slightly folded sediment. Minor	25	28	100				
MELBA	MF77			pyrite present. BCA 46d at 12.3m.	28	31	100				
MELBA	MF77	**13.60**	**31.30**	**Hematitic siltstone and sandstone.**	31	34	100				
MELBA	MF77			Ruby red hematitic graded sandstone and siltstone.	34	37	100				
MELBA	MF77			Abundant carbonate veinlets. Fresh core, no weathering	37	40	100				
MELBA	MF77			Grading up hole. Trace pyrite present. Minor chlorite	40	43	100				
MELBA	MF77			alteration. CBA at 21.7m is 40d. CBA at 28.5m is 41d.	43	46	100				
MELBA	MF77	**31.30**	**37.20**	**Pale green gabbro.**	46	49	100				
MELBA	MF77			Medium grained pale green gabbro.	49	52	100				
MELBA	MF77			Minor carbonate veinlets. Minor galena and chalcopyrite	52	55	100				
MELBA	MF77			present within carbonate veinlets. Minor disseminated	55	58	100				
MELBA	MF77			sulphides present within matrix. Two types of	58	61	100				
MELBA	MF77			carbonate veins present. Minor fragmented hematitic	61	64	100				
MELBA	MF77			red mudstone clasts floating within lower contact of	64	67	100				
MELBA	MF77			gabbro. Irregular lower contact at 55d. Sharp upper	67	70	100				
MELBA	MF77			contact at 50 d- minor carbonate veinlet at contact.	70	73	100				
MELBA	MF77	**37.20**	**46.70**	**Hematitic siltstone and sandstone.**	73	76	100				
MELBA	MF77			Ruby red hematitic graded sandstone and siltstone.	76	79	100				
MELBA	MF77			Abundant carbonate veinlets. Fresh core, no weathering	79	82	100				
MELBA	MF77			Grading up hole. Trace pyrite present. Minor chlorite	82	85	100				
MELBA	MF77			within carbonate veinlets. BCA at 42m is 31d. BCA at	85	88	100				
MELBA	MF77			BCA at 45m is 30d. BCA at 46.2m is 30d.	88	91	100				
MELBA	MF77	**46.70**	**50.60**	**Pale green sandstone-siltstone.**	91	94	100				
MELBA	MF77			Graded pale green sandstone/siltstone. Abundant	94	97	100				
MELBA	MF77			carbonate veinlets with minor chlorite. Trace sulphides	97	100	100				
MELBA	MF77			present. CBA at 48m is 26d. CBA at 50m is 25d. Sharp	100	103	100				
MELBA	MF77			lower contact with gabbro at 81d-minor qtz vein present.	103	106	100	49.60	50.60	0.008	0.009
MELBA	MF77	**50.60**	**53.20**	**Gabbro.**	106	109	100	50.60	51.60	0.022	0.008
MELBA	MF77			Pale green medium grained gabbro. Minor disseminated	109	112	100	51.60	52.40	0.299	0.218
MELBA	MF77			sulphides present within matrix. More sulphides present	112	115	100	52.40	53.20	0.233	0.182
MELBA	MF77			towards lower contact. Visible chalcopyrite and minor	115	118	100	53.20	54.20	0.014	0.011
MELBA	MF77			pyrite present. Irregular lower contact with minor floating	118	121	100				
MELBA	MF77			mudstone clasts.	121	124	100				
MELBA	MF77	**53.20**	**54.30**	**Pale green sandstone-siltstone.**	124	127	100				
MELBA	MF77			Massive pale green sandstone and siltstone. Minor	127	130	100				
MELBA	MF77			sulphides within matrix and carbonate veinlets. Minor	130	132.3	100				
MELBA	MF77			calcite veinlets present.	132.3	135.4	100				
MELBA	MF77	**54.30**	**55.00**	**Hematitic siltstone and sandstone.**	135.4	136	100				
MELBA	MF77			Ruby red hematitic disrupted/graded sandstone/siltstone.	136	139	100				
MELBA	MF77			Minor carbonate veinlets. Trace pyrite/cpy present within	139	142	100				
MELBA	MF77			veinlets. BCA at 54.5m is 48d.	142	145	100				
MELBA	MF77	**55.00**	**55.40**	**Gabbro**	145	148	100				
MELBA	MF77			Pale green medium grained gabbro. Minor disseminated	148	151	100	54.20	55.00	0.015	0.008
MELBA	MF77			sulphides with visible Cpy and Py. Sharp upper and	151	154	96.67	55.00	55.50	0.037	0.025
MELBA	MF77			lower contacts at 58d and 26d respectively. Minor	154	157	100	55.50	56.50	0.009	0.009
MELBA	MF77			carbonate veinlets present.	160	EOH					
MELBA	MF77	**55.40**	**64.00**	**Hematitic siltstone and sandstone.**							
MELBA	MF77			Ruby red hematitic disrupted and massive sandstone				63.00	64.00	0.011	0.005
MELBA	MF77			siltstone. Minor carbonate veinlets. Trace pyrite/cpy				64.00	65.00	0.035	0.024
MELBA	MF77			present within veinlets. Sharp lower contact at 55d.				65.00	66.00	0.057	0.06
MELBA	MF77	**64.00**	**72.10**	**Pale green gabbro.**				66.00	67.00	0.082	0.038
MELBA	MF77			Medium to coarse grained dark green gabbro.				67.00	68.00	0.02	0.01
MELBA	MF77			Abundant carbonate veinlets. Minor disseminated				68.00	69.00	0.048	0.014
MELBA	MF77			Py and Cpy present. Common sulphides present within				69.00	70.00	0.076	0.019
MELBA	MF77			carbonate veinlets. Minor disseminated galena and				70.00	71.00	0.094	0.021
MELBA	MF77			trace sphalerite?. Irregular lower contact at 40d.				71.00	72.10	0.089	0.024
MELBA	MF77	**72.10**	**77.80**	**Hematitic siltstone and sandstone.**				72.10	73.10	0.013	0.01
MELBA	MF77			Ruby red hematitic disrupted/graded sandstone/siltstone.							
MELBA	MF77			Minor barren carbonate veinlets. Younging up hole.							
MELBA	MF77			CBA at 75.6m is 49d. CBA at 76m is 49d.							
MELBA	MF77	**77.80**	**80.00**	**Pale green siltstones and sandstone.**							
MELBA	MF77			Minor carbonate veinlets, beds tend to be disrupted				79.00	80.00	0.012	0.005
MELBA	MF77			due to carbonate fracturing. Minor disseminated sulphides present				80.00	80.70	0.031	0.017
MELBA	MF77			towards lower contact. Semi-irregular lower contact at				80.70	81.70	0.01	0.01
MELBA	MF77			65d with gabbro.				81.70	82.70	0.008	0.008
MELBA	MF77	**80.00**	**80.70**	**Pale green gabbro.**							
MELBA	MF77			Medium grained pale green gabbro. Minor trace							
MELBA	MF77			sulphides present. Abundant small carbonate veinlets.							
MELBA	MF77			Semi irregular lower contact at 33 d.							

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MELBA	MF77	**80.70**	**86.00**	**Interbedded black mudstone and siltstone/sandstone.**								
MELBA	MF77			Fine laminations of lenticular mudstone and siltstone.								
MELBA	MF77			Minor disseminated pyrite within laminations. Minor								
MELBA	MF77			beds of pale greeen sandstone. Mudstone beds								
MELBA	MF77			tend to be disrupted. Mudstone beds tend to be								
MELBA	MF77			discontinious. CBA at 82.8m is 15d. Minor carbonate								
MELBA	MF77			beds present. Gradational lower contact. CBA at 86m								
MELBA	MF77			is 10d.								
MELBA	MF77	**86.00**	**99.50**	**Interbedded sandstone/siltstone with minor laminated**								
MELBA	MF77			mudstone beds.								
MELBA	MF77			Pale green sandstone-siltstone and minor black								
MELBA	MF77			mudstone laminated beds. Minor carbonate veinlets.								
MELBA	MF77			beds tend to be slightly disrupted. CBA at 88.5m is 43d.								
MELBA	MF77			CBA at 94.3m is 46.								
MELBA	MF77	**99.50**	**103.70**	**Interbedded black mudstone and siltstone/sandstone.**								
MELBA	MF77			Fine laminations of lenticular mudstone and siltstone.								
MELBA	MF77			Minor disseminated pyrite within laminations. Minor								
MELBA	MF77			beds of pale greeen sandstone. Mudstone beds								
MELBA	MF77			tend to be disrupted. Mudstone beds tend to be								
MELBA	MF77			discontinious. Minor carbonate veinlets present.								
MELBA	MF77			Gradational lower contact. CBA at 103m is 41d.								
MELBA	MF77											
MELBA	MF77	**103.70**	**127.50**	**Pale green siltstones/sandstone with minor mudstone**								
MELBA	MF77			beds. Minor carbonate veinlets, beds tend to be disrupted								
MELBA	MF77			due to carbonate fracturing. Minor disseminated pyrite								
MELBA	MF77			present within mudstone beds. CBA at 117m is 40d.								
MELBA	MF77			At 123.8m small 10cm dark green gabbro dyke, upper								
MELBA	MF77			contact at 63d.								
MELBA	MF77	**127.50**	**132.10**	**Disrupted/brecciaed pale green siltstone/sandstone and**								
MELBA	MF77			mudstone. Beds tend to be disrupted and broken with								
MELBA	MF77			angular clasts. Polymict breccia. Minor carbonate								
MELBA	MF77			veinlets with trace sulphides.								
MELBA	MF77	**132.10**	**132.30**	**Minor small broken fault. Extremely broken core.**								
MELBA	MF77	**132.30**	**146.00**	**Disrupted/brecciaed pale green siltstone/sandstone and**								
MELBA	MF77			mudstone. Beds tend to be disrupted and broken with								
MELBA	MF77			angular clasts. Polymict breccia. Minor carbonate								
MELBA	MF77			veinlets with trace sulphides.								
MELBA	MF77	**146.00**	**160.00**	**Interbedded siltstone and sandstone.**								
MELBA	MF77			Pale green sandstone and siltstone. Younging up hole.								
MELBA	MF77			Minor disseminated sulphides within sandstones								
				present. Abundant carbonate veins and veinlets present.				152.20	153.20	0.012	0.005	
				CBA at 150m is 42d. CBA at 155.5 is 53d.								
				Minor barren carbonate vein present at 159.2m to 159.4m.								
				EOH 160m.								