

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

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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