

# Plate II-5 Geologic column of the MJTA-7

Longitude: 68d 27m 10s  
 Latitude: 48d 49m 30s  
 Coordination: 459850 E, 5407950N  
 Elevation: 483m

Final depth: 250m  
 Azimuth: -  
 Inclination: vertical

Scale (m)	Column	Depth (m)	Description	Silicification	Sulfidation	Argilliza	Chloritiza	Epidotiza	Examined Sample	Assay Interval	Assay results					
											Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
			<b>0.0-8.0m:</b> coarse grained sand, surface soil, yellowish brown colored	-	-	-	-	-								
			<b>8.0-15.5m:</b> brown, oxide zone, strongly weathered granitic rock, with hematite dissemination, crackly core (φ 1-5cm)	-	-	-	-	-		0.0-3.0	30	1.2	44.0	22.6	104.6	5.0
		8.0	<b>15.5-21.4m:</b> brownish gray colored, oxide zone, hornblend - biotite adamante, plagioclase ≅ K-feldspar > biotite ≅ plagioclase: 3-5mm K-feldspar, biotite, hornblend: 2-3mm hematite stains along fractures plagioclase and mafic minerals are replaced by chlorite, epidote and hematite	-	-	-	-	-		3.0-6.0	20	0.2	32.0	24.0	125.4	6.0
		15.5	<b>21.4-22.75m:</b> weakly chloritized and weakly epidotized granite, with chlorite stringers, chlorite + pyrite stringers, chlorite + epidote stringers (1-3cm interval) most of mafic minerals change to chlorite	-	-	-	-	-		6.0-9.0	27	0.2	18.0	20.8	79.2	7.0
		21.4	<b>22.75-26.0m:</b> greenish light gray colored porphyry, dyke? (∠ 70deg), including a lot of plagioclase (replaced by epidote & white clay minerals) phenocrysts (φ 4-5mm) groundmass is composed of chlorite weak dissemination of pyrite, pyrite stringers and pyrite veinlets (3-10cm interval)	-	-	-	-	-		9.0-12.0	17	0.8	16.0	18.6	52.0	4.0
		22.75	<b>26.0-30.3m:</b> biotite - hornblend monzonite, or hornblend - biotite monzonite, pink colored with chlorite stringers (0.5-3cm interval) or chlorite network, traces of pyrite - chlorite stringers occur locally, pyrite dissemination is very weak most of mafic minerals are replaced by chlorite, some plagioclase crystals change to epidote	-	-	-	-	-		12.0-15.0	13	0.4	18.0	24.8	49.6	2.0
		30.3	<b>30.3-31.1m:</b> strongly silicified part: along vertical fractures, with pyrite dissemination (1-2%) silicified and epidotized part plagioclase is replaced by epidote and white clay, mafic minerals are replaced by chlorite & pyrite, pink colored feldspar are found	-	-	-	-	-		15.0-18.0	40	2.4	18.0	19.8	66.4	4.0
		31.1	<b>31.1-36.2m:</b> pinkish-gray, hornblend-biotite granite with a lot of stringers of chlorite (1-2cm interval) plagioclase shows pale green color minor veinlets of clay (white to pale green colored) and minor veinlets of chlorite + pyrite are found	-	-	-	-	-		18.0-21.0	30	0.8	22.0	30.6	63.2	3.0
		36.2	<b>36.2-40.0m:</b> argillized granite with pyrite dissemination, partly silicified, white colored with pyrite + chlorite stringers, with quartz + pyrite stringers (2-3cm interval), K-feldspar and plagioclase are replaced by clay minerals	-	-	-	-	-		21.0-23.0	23	1.6	26.0	23.6	61.4	2.0
		40.0	<b>40.0-41.8m:</b> hornblend-biotite granite, pink colored, plagioclase shows white to pale green color, K-feldspar is alive, mafic minerals change to chlorite with chlorite stringers, with chlorite + pyrite stringers (1-3cm interval), pyrite dissemination is very weak	-	-	-	-	-		23.0-26.0	23	0.4	98.0	28.0	95.4	3.0
		41.8	<b>41.8-43.4m:</b> greenish pale gray, strongly argillized granite, K-feldspar and plagioclase are replaced by white clay minerals, all mafic minerals change to chlorite	-	-	-	-	-		26.0-29.0	30	1.2	32.0	20.8	54.8	8.0
		43.4	<b>43.4-44.9m:</b> pink colored granite porphyry	-	-	-	-	-		29.0-32.0	20	0.8	26.0	19.0	59.8	3.0
		44.9	<b>44.9-51.3m:</b> pink colored granite, mafic minerals change to chlorite, with chlorite veinlets, with chlorite + pyrite veinlets, with epidote veinlets (2-5cm interval), traces of quartz + pyrite veinlets occur (50-100cm interval, ∠ 75deg, ±, w=5-10mm)	-	-	-	-	-		32.0-35.0	37	0.8	48.0	19.2	69.2	7.0
		51.3	<b>51.3-51.9m:</b> pale green colored porphyry phenocrysts: plagioclase (φ 5-8mm), hornblende groundmass: strongly chloritized pyrite dissemination: 1%±	-	-	-	-	-		35.0-36.2	50	16.6	46.0	16.0	59.0	25.0
		51.9	<b>51.9-52.8m:</b> white, strongly argillized granitoid, mafic minerals are replaced by chlorite, K-feldspar and plagioclase are replaced by white clay minerals pyrite dissemination: 2%±	-	-	-	-	-		36.2-38.2	33	0.4	42.0	13.2	65.8	<2.0
		52.8	<b>52.8-55.4m:</b> greenish gray to pinkish gray, weakly argillized granite, K-feldspar is alive, plagioclase change to white clay and epidote, all mafic minerals change to chlorite	-	-	-	-	-		38.2-40.0	37	1.2	18.0	14.6	62.2	<2.0
		55.4	<b>55.4-59.6m:</b> greenish gray to pinkish gray, weakly argillized granite, K-feldspar is alive, plagioclase change to white clay and epidote, all mafic minerals change to chlorite	-	-	-	-	-		40.0-41.8	23	0.2	52.0	13.2	54.8	<2.0
		59.6	<b>59.6-69.3m:</b> greenish gray to pinkish gray, weakly argillized granite, K-feldspar is alive, plagioclase change to white clay and epidote, all mafic minerals change to chlorite	-	-	-	-	-		41.8-43.4	30	0.8	46.0	131.0	68.4	<2.0
		69.3	<b>69.3-71.4m:</b> greenish gray to pinkish gray, weakly argillized granite, K-feldspar is alive, plagioclase change to white clay and epidote, all mafic minerals change to chlorite	-	-	-	-	-		43.4-46.0	27	0.2	16.0	27.0	42.0	<2.0
		71.4	<b>71.4-77.2m:</b> light gray to pale greenish gray colored granite, plagioclase and K-feldspar change to white clay and epidote, all mafic minerals change to chlorite pyrite dissemination is weak, slightly silicified, with stringers of chlorite & epidote	-	-	-	-	-		46.0-49.0	27	0.2	24.0	23.8	53.2	<2.0
		77.2	<b>77.2-80.0m:</b> light gray to pale greenish gray colored granite, plagioclase and K-feldspar change to white clay and epidote, all mafic minerals change to chlorite pyrite dissemination is weak, slightly silicified, with stringers of chlorite & epidote	-	-	-	-	-		49.0-52.0	33	0.6	24.0	23.0	57.0	<2.0
		80.0	<b>80.0-81.2m:</b> strongly silicified and chloritized rock, with a lot of fractures (∠ 80deg), crackly core, dark gray colored	-	-	-	-	-		52.0-54.0	13	0.6	38.0	15.4	53.2	<2.0
		81.2	<b>81.2-82.4m:</b> pale greenish gray colored, argillized granite, with a lot of chlorite stringers (0.5-1cm intervals)	-	-	-	-	-		54.0-55.4	13	0.6	56.0	17.6	95.8	<2.0
		82.4	<b>82.4-88.2m, 88.7-90.0m:</b> pinkish-gray, weakly argillized granite, with chlorite stringer, with chlorite veinlets (∠ 80deg), with minor veinlets of quartz + pyrite	-	-	-	-	-		55.4-57.6	20	0.6	66.0	22.4	63.8	<2.0
		88.2	<b>88.2-88.7m:</b> white, crackly core, strongly argillized rock, with pyrite dissemination, original rock texture is completely destroyed	-	-	-	-	-		57.6-59.6	17	1.4	24.0	11.8	71.0	5.0
		88.7	<b>88.7-90.0m:</b> pinkish gray to pale greenish gray, plagioclase changes to clay and epidote, with a lot of epidote + chlorite stringers (3cm interval)	-	-	-	-	-		59.6-63.0	10	15.8	19.8	29.0	57.4	13.0
		90.0	<b>90.0-91.5m:</b> pinkish gray to pale greenish gray, plagioclase changes to white clay and epidote, all mafic minerals change to chlorite	-	-	-	-	-		63.0-66.0	20	<0.10	21.4	16.6	54.6	14.0
		91.5	<b>91.5-92.1m:</b> pinkish gray to pale greenish gray, plagioclase changes to white clay, all mafic minerals change to chlorite + epidote, with a lot of chlorite + epidote stringers	-	-	-	-	-		66.0-69.0	17	0.2	14.4	16.0	49.6	9.0
		92.1	<b>92.1-93.0m:</b> pinkish gray to pale greenish gray, plagioclase changes to white clay, all mafic minerals change to chlorite + epidote, with a lot of chlorite + epidote stringers	-	-	-	-	-		69.0-72.0	13	1.0	13.4	16.0	42.0	7.0
		93.0	<b>93.0-95.9m:</b> hornblend-biotite adamante, pinkish gray, with minor epidote stringers, with minor chlorite stringers	-	-	-	-	-	7-94.0 T	75.0-78.0	23	0.2	27.8	20.2	53.6	19.0
		95.9	<b>95.9-97.0m:</b> gray to greenish light gray colored, plagioclase changes to white clay and epidote, all mafic minerals change to chlorite, with chlorite stringers, with chlorite + pyrite stringers (0.5-2cm interval), with pyrite disseminations	-	-	-	-	-		80.0-81.2m	0	1	3	3	3	3
		97.0	<b>97.0-104.4m:</b> pale greenish gray, plagioclase changes to argillized mineral, mafic minerals change to chlorite and epidote, with a lot of chlorite stringers (0.5-1cm intervals) with minor epidote stringers, with minor clay veinlets	-	-	-	-	-		81.0-84.0	13	0.4	31.2	27.8	63.2	<2.0
		104.4	<b>104.4-104.9m:</b> light gray colored, strongly silicified band, ∠ 45deg, w=40cm, quartz>>sericite, with minor pyrite veinlets, with weak dissemination of pyrite	-	-	-	-	-	7-104.5 X	84.0-87.0	13	0.6	29.7	22.0	52.4	<2.0
		104.9	<b>104.9-108.6m:</b> all plagioclase changes to white clay, all mafic minerals are replaced by chlorite and epidote, with dense network of chlorite, with dense network of chlorite + pyrite (0.5-1cm interval)	-	-	-	-	-		87.0-90.0	30	0.4	28.8	25.4	64.6	<2.0
		108.6	<b>108.6-109.8m:</b> white, strongly argillized rock, with pyrite dissemination, white clay>>chlorite, sericite	-	-	-	-	-		90.0-93.0	30	<0.10	24.8	26.8	56.0	<2.0
		109.8	<b>109.8-111.5m:</b> pink colored, weakly argillized granite, with chlorite stringers, with chlorite + pyrite stringers (1-3cm interval)	-	-	-	-	-		93.0-95.9m	0	0	1	1	1	1
		111.5	<b>111.5-111.9m, 112.6-113.0m:</b> chloritized porphyritic andesite dyke, with pyrite dissemination	-	-	-	-	-		95.9-97.0m	0	0	1	1	1	1
		116.8	<b>113.0-116.8m:</b> weakly argillized rock, with pyrite stringers, with pyrite + chlorite stringers (1-3cm interval)	-	-	-	-	-		97.0-104.4m	0	0	2	2	2	2
		123.2	<b>116.8-123.2m:</b> weakly argillized and epidotized rock, with a lot of chlorite stringers (1-2cm interval), all mafic minerals change to chlorite + epidote	-	-	-	-	-		104.4-104.9m	1	3	3	1	0	0
		124.2	<b>123.2-124.2m:</b> strongly argillized rock, with strong dissemination of pyrite, original rock texture is completely destroyed, porphyry?, angle of intrusion = ∠ 50deg.	-	-	-	-	-	7-124.0 PTX	108.6-109.8m	23	0.2	56.4	22.8	58.4	<2.0
		126.2	<b>124.2-126.2m:</b> pale greenish gray, argillized granite, plagioclase changes to white clay (& pale green colored mineral), all mafic minerals change to chlorite and epidote with chlorite stringers, with chlorite + pyrite stringers (1-3cm interval) pyrite dissemination is weak	-	-	-	-	-		109.8-110.0m	37	1.0	67.4	25.2	48.2	<2.0
		128.6	<b>126.2-126.5m:</b> silicified rock with pyrite dissemination (2%), alteration mineral assemblage = quartz >> sericite, white clay, pyrite	-	-	-	-	-		110.0-111.5m	1	0	1	1	1	1
		132.6	<b>126.5-127.1m:</b> pale greenish gray, argillized granite, plagioclase changes to white clay (& pale green colored mineral), all mafic minerals change to chlorite and epidote with chlorite stringers, with chlorite + pyrite stringers (1-3cm interval) pyrite dissemination is weak	-	-	-	-	-		111.5-111.9m, 112.6-113.0m	0	0	2	2	2	2
		133.4	<b>127.1-128.6m:</b> silicified rock with pyrite dissemination (2%), with chlorite stringers, with pyrite stringers (∠ 50deg.)	-	-	-	-	-		113.0-116.8m	23	<0.10	33.0	19.0	59.8	<2.0
		138.4	<b>128.6-132.6m:</b> greenish pale gray, argillized rock, plagioclase changes to white clay (& pale green colored mineral), mafic minerals change to chlorite & epidote with chlorite + pyrite stringers, with pyrite stringers, with chlorite stringers (2cm interval), pyrite dissemination is very weak	-	-	-	-	-		116.8-123.2m	0	0	2	3	2	0
		144.4	<b>132.6-133.4m:</b> white to greenish light gray colored, argillized granite with dense network of pyrite	-	-	-	-	-		116.8-123.2m	0	0	2	3	2	0
		150.4	<b>133.4-151.3m:</b> pinkish light gray, weakly argillized & chloritized granite, mafic minerals change to chlorite & epidote, plagioclase changes to white clay, with chlorite stringers, with chlorite + pyrite stringers (1-2cm interval), with minor veinlets of epidote (∠ 80deg, w=5mm at 135.5m)	-	-	-	-	-		119.0-122.0	10	0.4	15.4	8.8	44.6	11.0
		156.4	<b>140.0-140.2, 146-149m:</b> alteration is very weak, half of mafic minerals change to chlorite, plagioclase is slightly altered	-	-	-	-	-		122.0-123.2	20	0.6	56.4	14.4	57.2	18.0
		162.4	<b>151.3-156.6m:</b> plagioclase changes to white clay, all mafic minerals change to chlorite & epidote, most of K-feldspar is alive, pyrite dissemination is weak chlorite stringers occur (1-5cm interval)	-	-	-	-	-		123.2-124.2	23	0.4	16.8	23.2	51.4	<2.0
		168.4	<b>156.6-157.3m:</b> crackly core, silicified and argillized rock, with pyrite network and chlorite dissemination, total amount of sulfide = 2% - 3%, with quartz + pyrite veinlets	-	-	-	-	-		124.2-126.2	33	0.4	30.0	21.8	70.2	<2.0
		174.4	<b>157.3-161.7m:</b> rock texture is not clear because of argillization, chloritization, epidotization & network of chlorite + pyrite with minor dissemination of pyrite	-	-	-	-	-		126.2-128.6	40	1.6	56.6	17.4	113.0	<2.0
		180.4	<b>161.7-164.1m:</b> argillized and chloritized rock, with chlorite + pyrite network, with pyrite network (5-15mm interval) quartz + pyrite (+ epidote) veinlets locally occur (50-100cm interval), with pyrite dissemination rock texture is not clear by strong alteration and dense network	-	-	-	-	-		128.6-132.6	17	0.2	16.8	15.6	58.2	25.0
		186.4	<b>164.1-165.3m:</b> crackly core, argillized granite, with dense network of pyrite, with network of quartz + pyrite, with network of chlorite + pyrite, with pyrite dissemination, with slight silicification	-	-	-	-	-		132.6-133.4	27	0.2	33.2	27.0	44.2	24.0
		192.4	<b>165.3-172.0m:</b> argillized and chloritized rock, with chlorite + pyrite network, with pyrite network (5-15mm interval) quartz + pyrite (+ epidote) veinlets locally occur (50-100cm interval), with pyrite dissemination rock texture is not clear by strong alteration and dense network	-	-	-	-	-		133.4-136.0	33	0.2	46.2	21.8	57.4	27.0
		198.4	<b>172.0-173.7m:</b> light gray to pale greenish gray, argillized and silicified rock, with strong dissemination of pyrite, with network of chlorite + pyrite + epidote, rock texture is not clear	-	-	-	-	-		136.0-139.0	13	0.2	29.8	21.8	53.0	28.0
		204.4	<b>173.7-184.3m:</b> rock texture is not clear, dark green colored, all mafic minerals change to chlorite, plagioclase changes to pale green or white colored minerals, K-feldspar is alive with network of chlorite, pyrite, chlorite + pyrite pyrite dissemination is weak	-	-	-	-	-		139.0-142.0	10	0.2	33.0	19.4	44.6	35.0
		210.4	<b>177.7-179.1m, 184.0-184.3m:</b> fracture zone	-	-	-	-	-	7-176.4 X	142.0-145.0	30	0.2	19.4	24.4	53.2	39.0
		216.4	<b>180.7m:</b> silicified zone with pyrite dissemination, w=3cm, ∠ 60deg.	-	-	-	-	-		145.0-148.0	20	1.0	19.0	20.4	46.6	35.0
		222.4	<b>182.0m:</b> quartz veinlets, w=1cm, ∠ 50deg.	-	-	-	-	-		148.0-151.0	30	7.8	25.4	14.6	40.8	22.0
		228.4	<b>183.0m:</b> coarse grained quartz vein with druse, including coarse grained pyrite, w=7-10cm, ∠ 70deg.	-	-	-	-	-		151.0-154.0	23	0.8	32.8	18.0	52.4	40.0
		234.4	<b>184.3-196.6m:</b> greenish gray to light gray colored, argillized, chloritized & weakly epidotized granitic rock, original rock texture is not clear because of strong alteration with weak dissemination of pyrite with chlorite stringers, with pyrite + chlorite stringers, with pyrite stringers (2-3cm interval, ∠ 50-80deg.)	-	-	-	-	-		154.0-156.6	17	6.0	30.6	15.0	46.8	23.0
		240.4	<b>188-188.2m:</b> strong dissemination of pyrite, amount of pyrite = 2%	-	-	-	-	-	7-188.0 PTX	156.6-157.3	30	0.4	37.8	14.2	53.8	26.0
		246.4	<b>188.5m, 188.6m:</b> pink-feldspar band, w=3-5cm, ∠ 40-85deg.	-	-	-	-	-		157.3-160.0	33					