

Arithmetical Average of 36 Assays

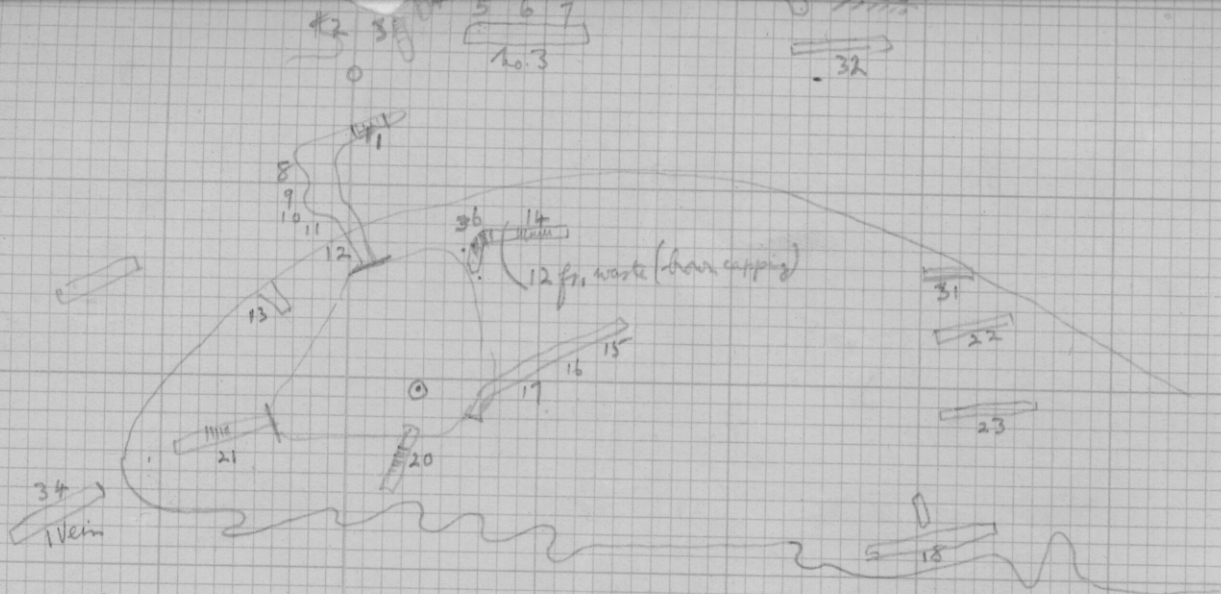
Silver, Ozs.			Lead	Zinc
Dome orig	Dome check	Temiskaming Labs.		
38 oz.	.42 102	1.96 (True Average) considering widths	7.014 %	7.142

Strikes

- no. 1 vein
- no. 2
- no. 3
- no. 4
- no. 5
- no. 6

- no. 20° W. ask. ?
- no. ask. ?
- no. 32° W. ask. ?
- no. 18° W ask. ?
- no. 10° W ask. ?
- no. 60° E ask. ?

860535



Sample Key map

019

Sample List, Ferguson Mine (J.M. Turnbull)

1. Base of Cut. N.9 E. from Sta.U. 25' horiz., 10' vert. below U. Cut 8', represents 6.5' width, best part of vein. Nearly vert. cut. 1' oxd. low grade on F.W. H.W. not reached, as covered, but nearly so. Qtz. crop 6' above, that is 3' across dip.
 2. 4.5' cut. Top 2.5' siliceous. 1' banded with sulphides, 1' oxd. heavily brown. 1 to 2 inches on wall some PbS, average equals prob. 5-7% lead. 5 or 6 ft. at right angles to dip to qtz. outcrop above.
 3. Trench at Sta.T. Sample cut from bot. of trench for about 10' width mostly brown hematitic with some limonitic spots and a little PbS and ZnS, perhaps 5% Pb as PbS, maybe some oxides. Some coarse PbS intergrown with clear qtz. crystals. 8' above sample equals decomposed gneissic band on edge of qtz.
 4. Represents 5' total width at rt. angles to walls. Trench 10'. H.W. not exposed and might according to upper trench be 3' or more up. Lim. and gneissic bands occur in samples 2 and 3 or in these trenches. Est. 10% Pb and 15% Zn.
 5. 5' Cut on steeply sheared material, light brown, 10% Pb
 6. 4' Cut dark brown Hem. band, 20% Pb
 7. 8.5' Cut med. band, 3% Pb
- (Samples 5, 6, and 7, widths to be modified by 5/8)
- Continued*
Trench on No.3 vein, qtz. at S. end appears to be getting steeper and shearing, etc., about 60 deg. 3' lime betw. qtz. and sample 5, and bal. of trench browned ankeritic barren lime. 5' near H.W. browner contg. some qtz. and specks of PbS, much shattered. H.W. at 35'
8. No.2 big cut (boot trench) Base of sample 6' below (vert.) and 6.5' from Sta.U on line U.T. Cut 3.8' up trench, representing about 1.7' at rt. ang. Low grade irony mat. 5% Pb or less.
 - 9, 10, 11, & 12 taken on line of trench upwards, continuation of sample 8.
 9. 12' good ore cut. 30% plus Pb. True width 5' plus
 10. 12 to 18' cut 6' lean decomposed rock 3%, 2.5' plus true width.
 11. 18 to 30'. 12' good ore and hem. 20%. 5' plus
 12. 30' to 45'. 15' hem. plus PbS. 5%. 7' plus
- Above measurements are distances from Sta. U. on slope of trench
13. Copper cut, No.2 vein. Cut 4' equals 3' true width. No true foot. Resembles sample 12 gangue. H.W. yellow lim. mixed with qtz. Dip looks like 40 deg. Pb 5% or less, Cu, 2% or more, brown gangue Band of dioritic ls. 70 deg. dip at mouth of trench seems to cut off ore and may mark continuation of fissuring
 14. Blasted cut on No.3 vein across 6.5' equals 5' rt. ang. to dip 15-20%. Brown H. side and Ft. centre PbS and qtz. 2' H.W. and 3' F.W. not sampled. Lean. Lime walls. More vein to west exposed later (See sample 36).
 - 15, 16, and 17, Trench on No.3 near brow

15. 3' to 17' from N.end. Low grade ore and waste bands. Cut 14' equals 9' or less.
16. High grade ore, 21 to 24'. 3' cut, equals 1 ft. plus vein
17. 17. to 21' and 24 to 27', two sections representing 1.5' and 1' total 2.5' low grade brown ore
18. Cut, No.3 vein, top edge of ridge. 15' cut equals 8' at rt.ang. walls. Low grade zincky. 2 small streaks PbS. About 3 Pb and 5 Zn.
19. No.3 vein. Cut on S.side. Cut 5' equals 4' at rt.ang.walls. Slightly mind. 1% Pb and Zn.
20. Cut just S. of Sta.3. 16.5' cut. Low grade zincky. No.2 vein?. Represents width of perhaps 8'. 5%
21. Cut to E. of Sta.#3, No.2 vein. Cut 4.5' equals 2.5' rt.ang.wall heavy PbS, Zn ore. 40%. 1' brown on H.W. F.W. hard barren
22. No.4 vein. Grab sample from S.end. 25' and 33 to 35'. 25' to 33' equals wash. Very lean capping. Sample too good. Dip about 45 deg.N. Say 18' at rt.ang. 1 or 2%. 20 to 25 and 33 to 35' best streaks.
23. No.4 vein. Centre of new cut, top of hill, and capping. Grab sample full length of trench 34'. Good 2' of hard zincky ore at 27', say 6% plus sulphides. Rt.ang. equals say 25'. 1 or 2%.
- 24, 25, 26, and 27, from long trench on ridge, beginning at S.end.
24. 4 to 6'. 2' cut. Heavy sulphides 40% Pb. Dip uncertain. width prob.1.5'
25. 6 to 14'. 8' cut low grade brown-black capping
26. 15.5 to 33' 15.5' cut. Brown capping, looks leaner- leaner than sample 25. Samples 25 and 26 prob. 1%. 30' wash follows.
27. 58 to 79'. 21' cut. Brown-low grade capping, steep uncertain dip, say 15 to 18' at rt.ang.
28. Measured southerly from opp.200' point on survey line 1-2. 3 to 15'. 12' cut. Lean red capping.
29. Lower cut No.6 vein across 17' except 3' band of Ls. about centre. Represents about 14' at rt.ang. to dip. Reddish band on S.side of sample.
30. Small cut above sample 29. Best 3' in centre at rt.ang.dip. Small stringers PbS, assoc.with schisty gs.stringers. low grade.
31. Cut, No.4 vein, brow of hill, 10' horiz. cut equals 5' at rt.ang. to vein. Dip 30 deg.plus. 10 Pb. 20Zn.
32. Lowest old cut on No.4 vein, from 1 to 10' W. from Sta.S. 9' cut. Say 6' at rt.ang. Dip about 35 deg.? Well min'd 6-8% Pb. 30% Zn.
33. Cut at Sta.Q. 16' cut equals 14' ore at rt.ang. Brown capping with bunches and stringers ZnS. 10% Zn and trace of Pb. Slight PbS assoc.with gs.stringers. (#5 vein?)

Note: Long trench at snag 633 shows 4' brown capping 6 to 10' W. of Sta., one or two spots with PbS and ZnS. Too lean to sample. Other slightly irreg. streaks of brown capping. Much of trench in wash, or bedrock not clearly exposed.

34. No.1 Vein. 14 to 22' from top of trench. Cut 8' represents about 7' at rt.ang.dip. Xinky, very hard siliceous bands, 2' wide or more, mostly Zn. 3% Pb and 5-8% Zn.

35. On new bottom cut, No.4 vein. Grab sample off dump, prob. consid. better than average. Later work shows widthn 30' similarly min'd. Looks like fair low grade millfeed. Grab sample off dump cut 6', representing actual width 4'. Sample from best stringers representing 25% of width. Shearing S.10 deg.E. vert. Direction of cut, N.35 deg.W.

36. Same trench as sample 14, No.3 vein? Cut across 8.5 ft. Represents about 5' at rt.ang. Good ore 25-30% Pb. Cuts off against qtz. on S. 12' of lime and barren betw. this sample and 14. Good ore in small pit 5' S. of trench.

Table of Assay Results Ferguson Mine

Sample No	Description (see sample list)	Silver, Oz. (Temisk. Test Labs)	Width #	Pb		Zn		Ag
				%	ft. %	%	ft. %	ozs.
1301		9.8 oz.	6.5	21.36	139.0	22.20	144.3	.60
1302		1.2	4.5	3.76	16.9	4.45	20.0	.08
1303		0.7	7.0	2.40	16.8	23.80	166.6	.08
1304		1.7	5.0	5.68	28.4	12.75	63.8	T.
1305		1.0	3.0	4.08	12.2	5.25	15.7	T.
1306		2.9	2.5	11.40	28.5	5.48	13.7	.40
1307		0.4	5.3	.72	3.82	9.25	49.0	.16
1308		0.8	1.7	.96	1.63	13.60	23.1	.20
1309		11.6	5.0	32.24	161.1	6.20	31.0	1.26
1310		0.8	2.5	1.88	4.7	3.40	8.5	.08
1311		5.1	5.0	9.04	45.2	6.75	33.8	.32
1312		1.4	7.0	4.64	32.4	1.30	9.1	.34
1313		4.7	3.0	5.60	16.8	2.08	6.2	.32
1314		2.8	5.0	10.80	54.0	10.25	51.3	.20
1315		5.2	9.0	11.92	107.2	10.00	90.0	.98
1316		10.9	1.0	25.28	25.3	5.00	5.0	1.70
1317		3.0	2.5	10.48	26.2	6.05	15.1	.12
1318		1.2	8.0	4.96	39.6	7.00	56.0	.10
1319		1.1	4.0	1.24	5.0	2.50	10.0	.10
1320		0.8	8.0	3.44	27.5	6.00	48.0	T.
1321		15.0	2.5	32.08	80.3	3.90	9.8	3.00
1322		0.8	18.0	1.68	30.2	3.25	58.5	.20
1323		0.6	25.0	1.36	34.0	4.30	107.5	.26
1324		13.4	1.5	13.12	19.7	.50	.7	.90
1325		1.6	8.0	3.64	29.1	1.10	8.8	.10
1326		0.3	15.5	.56	8.7	15.50	241.2	T.
1327		T.	15.0	1.00	15.0	4.10	61.5	.36
1328		T.	12.0	.92	11.0	1.00	12.0	.18
1329		T.	14.0	.32	4.5	4.40	61.6	.38
1330		0.7	3.0	1.24	3.7	2.10	6.3	.40
1331		2.8	5.0	4.60	23.0	5.60	28.0	.12
1332		2.3	6.0	4.16	25.0	14.75	88.5	.20
1333		0.2	14.0	.64	8.9	8.95	125.3	.40
1334		0.6	7.0	1.60	11.2	5.90	41.3	T.
1335		2.8	4.0	2.60	10.4	13.75	55.0	.22
1336		6.7	5.0	11.12	55.6	4.70	23.5	1.30

27) 251.0 1162.5 1789.7

$$\frac{1162.5}{251} = 4.63\%$$

$$\frac{1789.7}{251.0} = 7.13\%$$

True Average All samples

(Gold = \$ 0.35 average)

Ag
 .38 oz.
 average
 T.T.L.
 1.01 oz.

Pb = 4.12%
 10.8
 Pb = 11.55%
 21.2

Pb = 12.7%
 12.5

Pb = 5.1%
 9.5
 Interval
 Zn = 15.5%
 15.5