

Orebody Modelling for Exploration: The Western Mineralisation, Broken Hill

Mohammad Lotfolah Hamedani

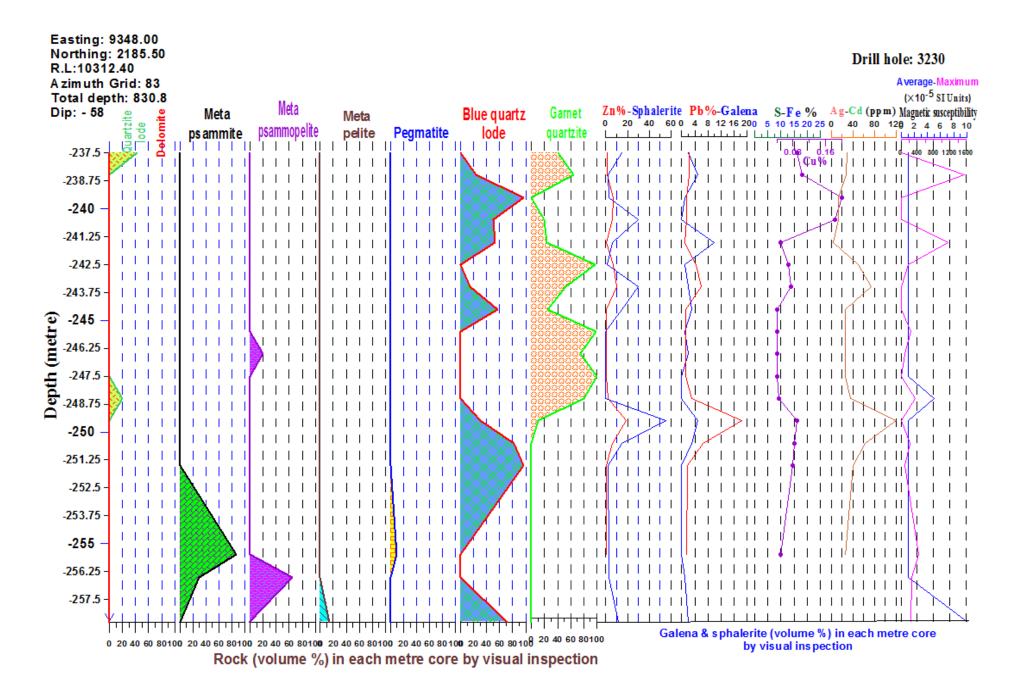
B.S. (Honours) in Accounting

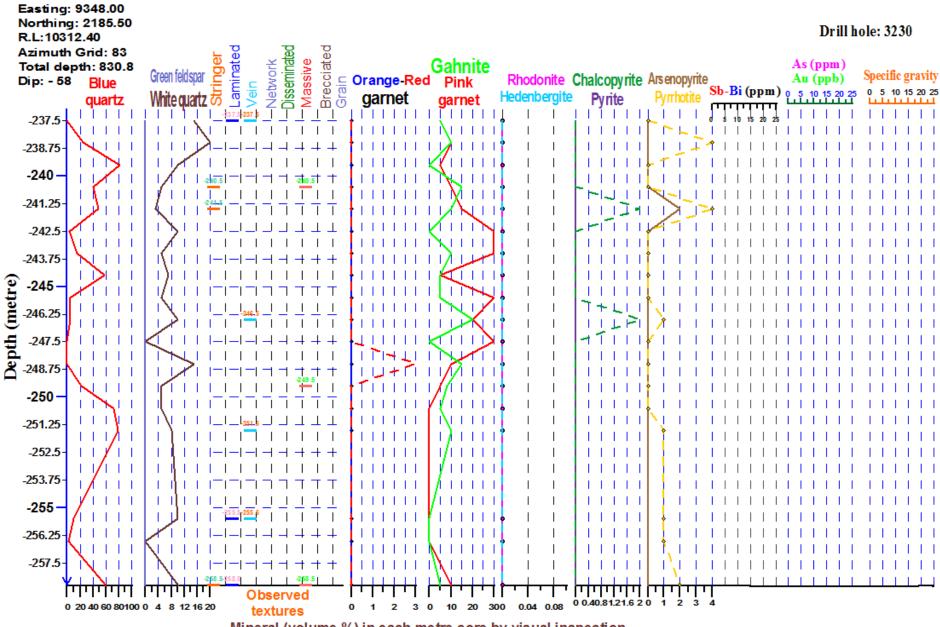
B.S. (Honours) in Mining Engineering (Exploration)

M.S. in Mining Engineering (Exploration)

Geology and Geophysics School of Earth and Environmental Sciences The University of Adelaide

Thesis submitted as fulfilment of the requirements for the degree of Doctor of Philosophy in the Faculty of Science, University of Adelaide

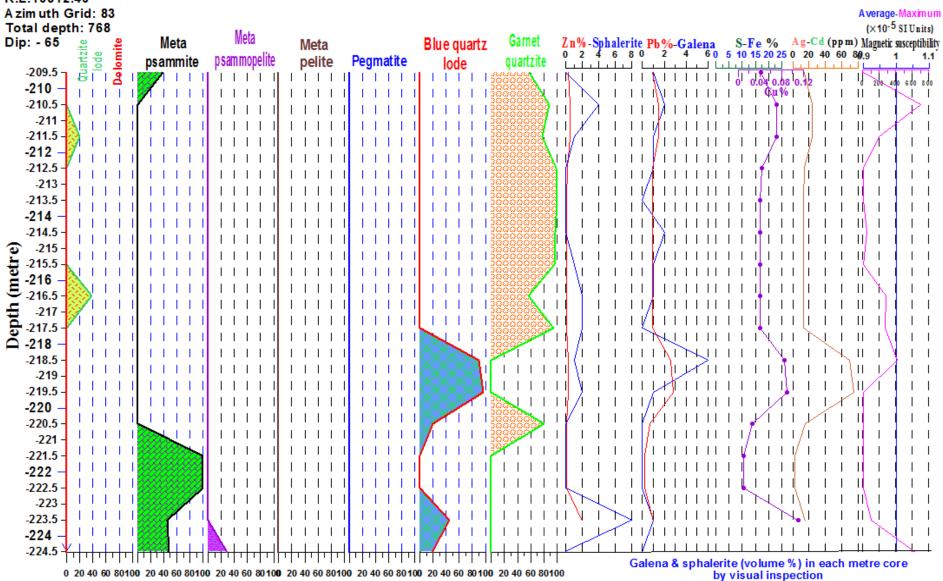




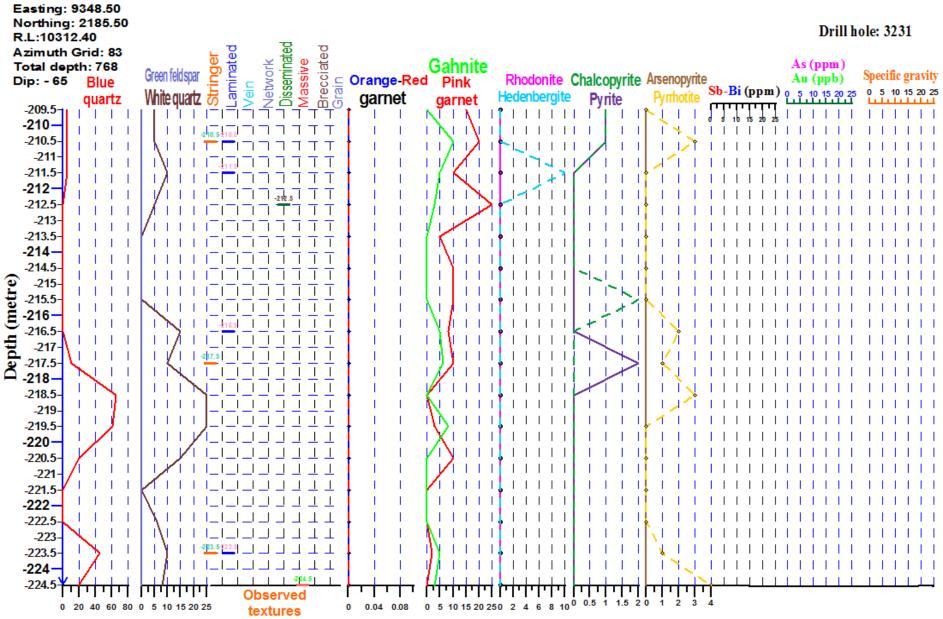
Mineral (volume %) in each metre core by visual inspection

Easting: 9348.50 Northing: 2185.50 R.L:10312.40 A zim uth Grid: 83

Drill hole: 3231

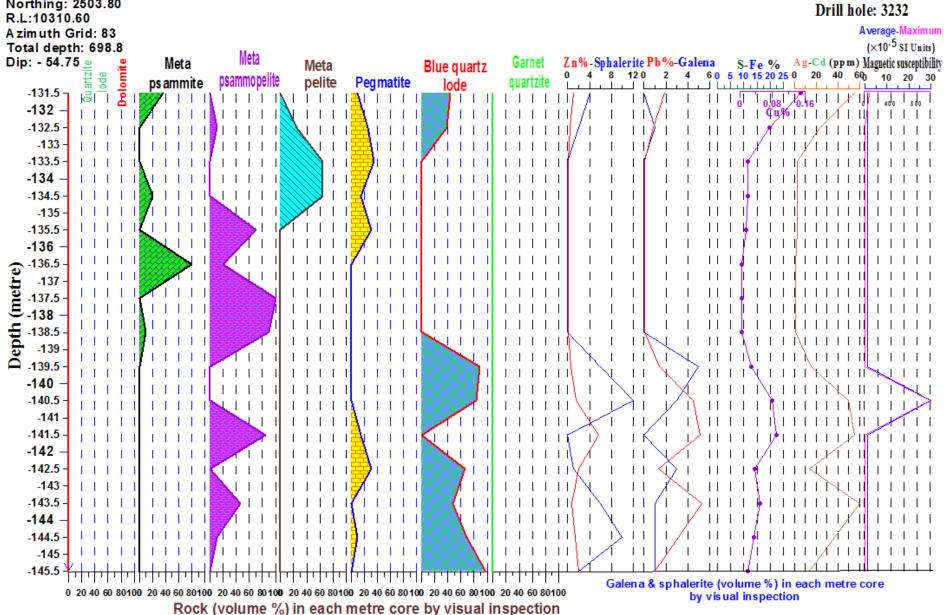


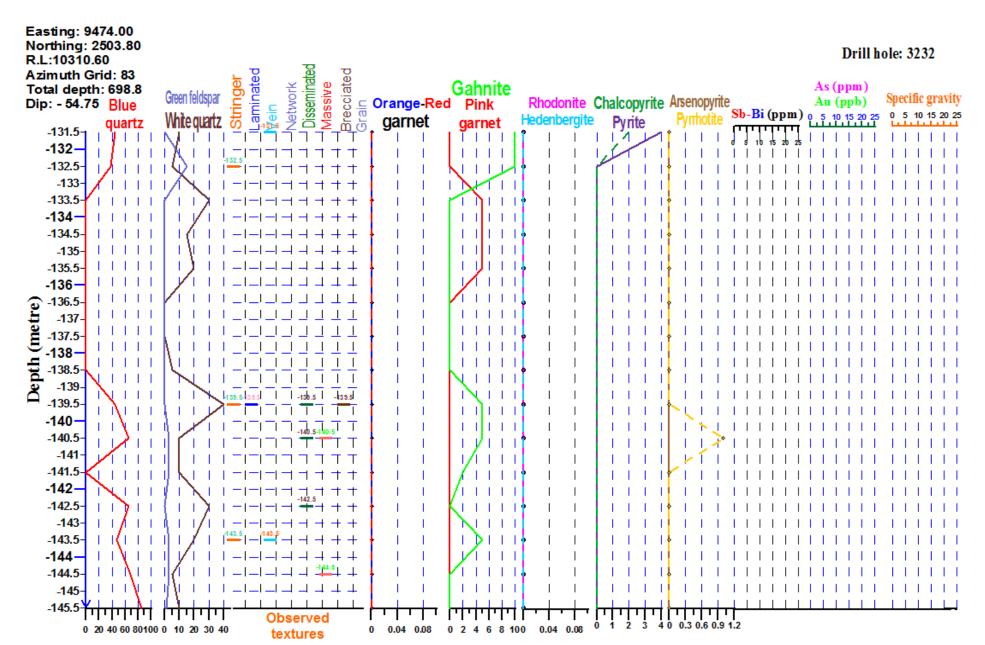
Rock (volume %) in each metre core by visual inspection



Mineral (volume %) in each metre core by visual inspection

Easting: 9474.00 Northing: 2503.80 R.L:10310.60 Azimuth Grid: 83 Total depth: 698.8 Meta Garnet Meta Meta

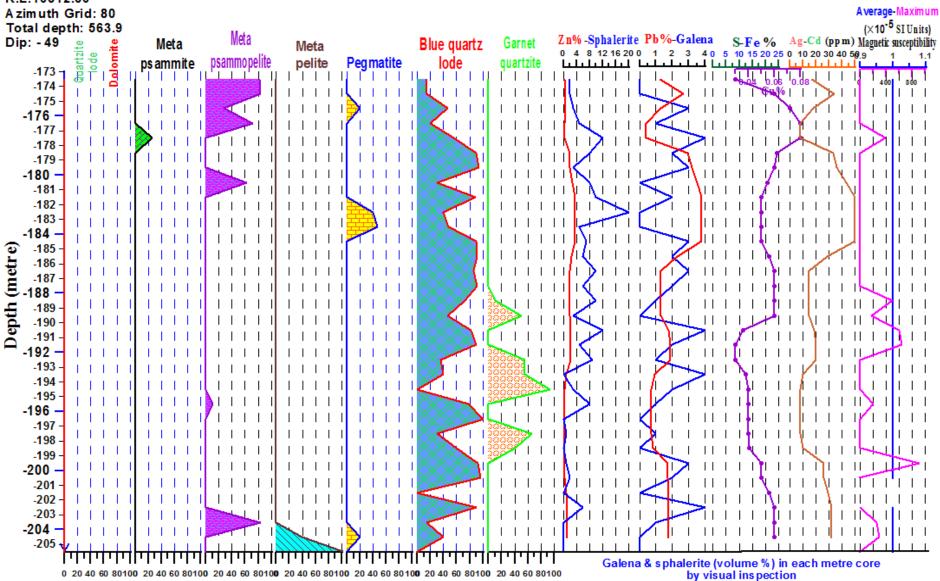




Mineral (volume %) in each metre core by visual inspection

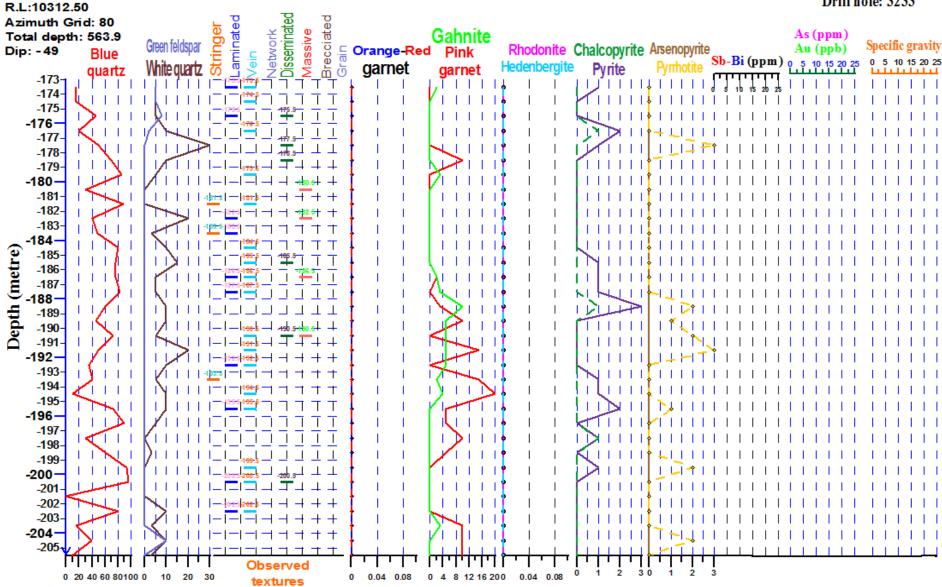
Easting: 9348.00 Northing: 2186.10 R.L:10312.50

Drill hole: 3233



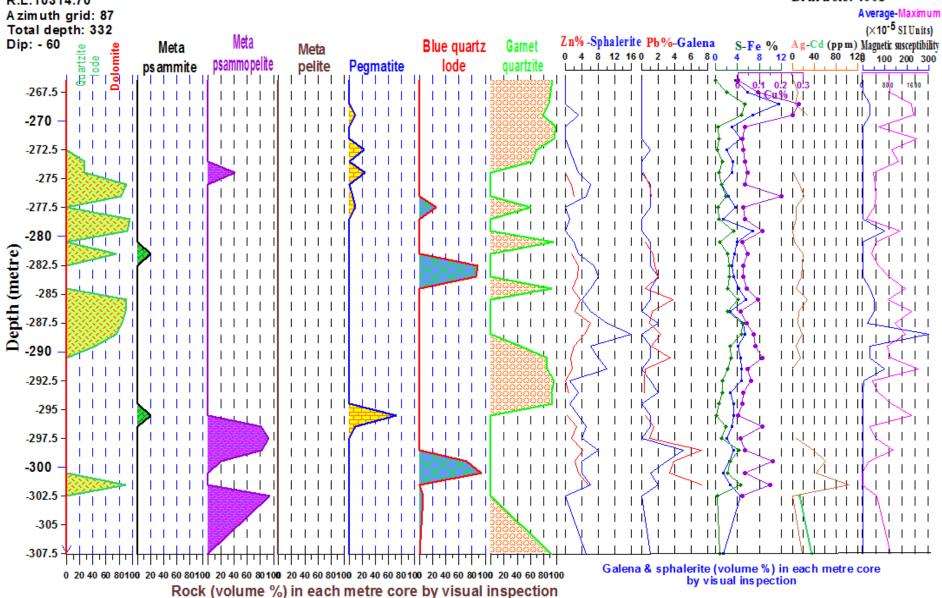
Rock (volume %) in each metre core by visual inspection

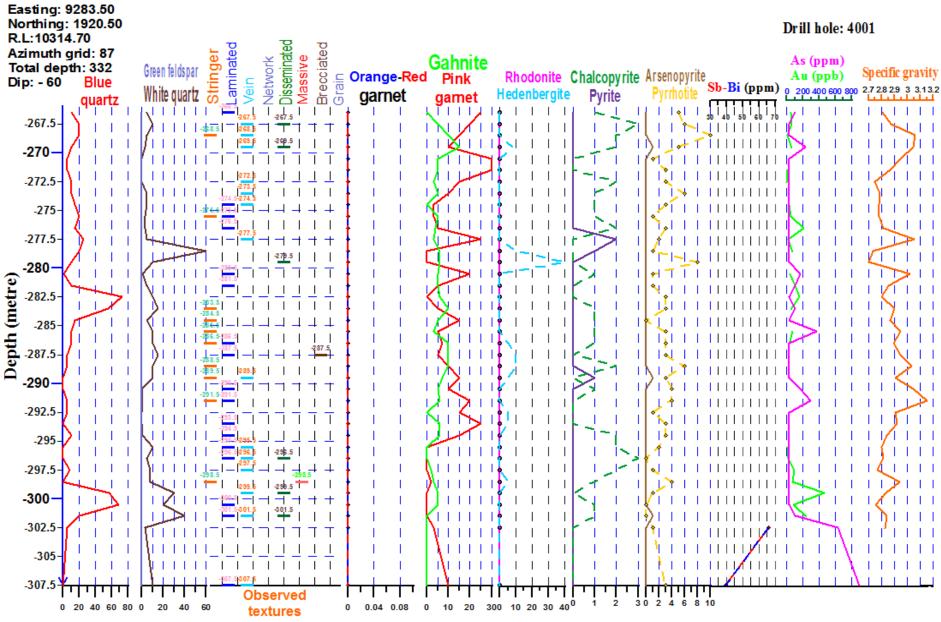




Mineral (volume %) in each metre core by visual inspection

Easting: 9283.50 Northing: 1920.50 R.L:10314.70



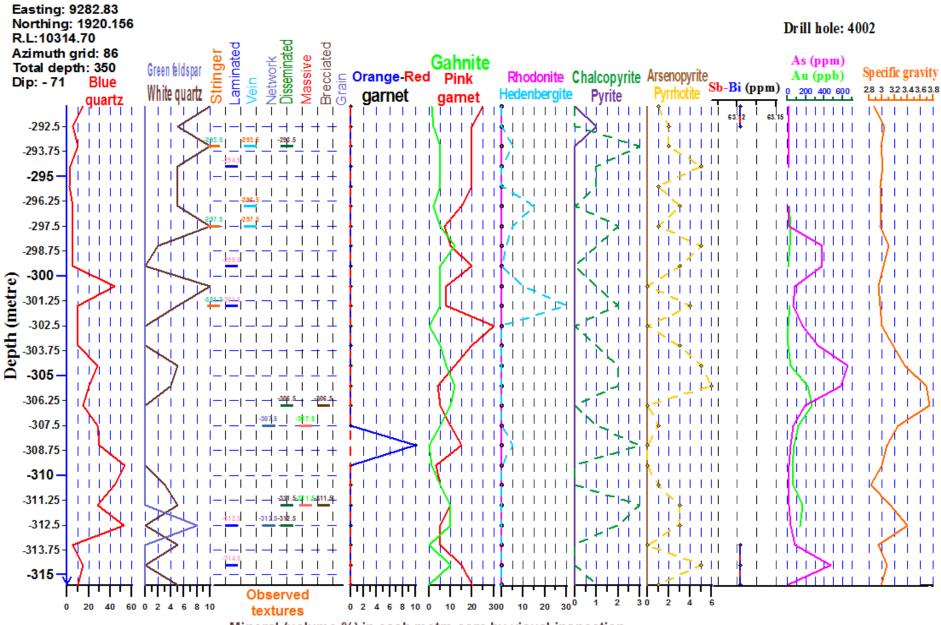


Mineral (volume %) in each metre core by visual inspection

Easting: 9282.83 Northing: 1920.156 R.L:10314.70

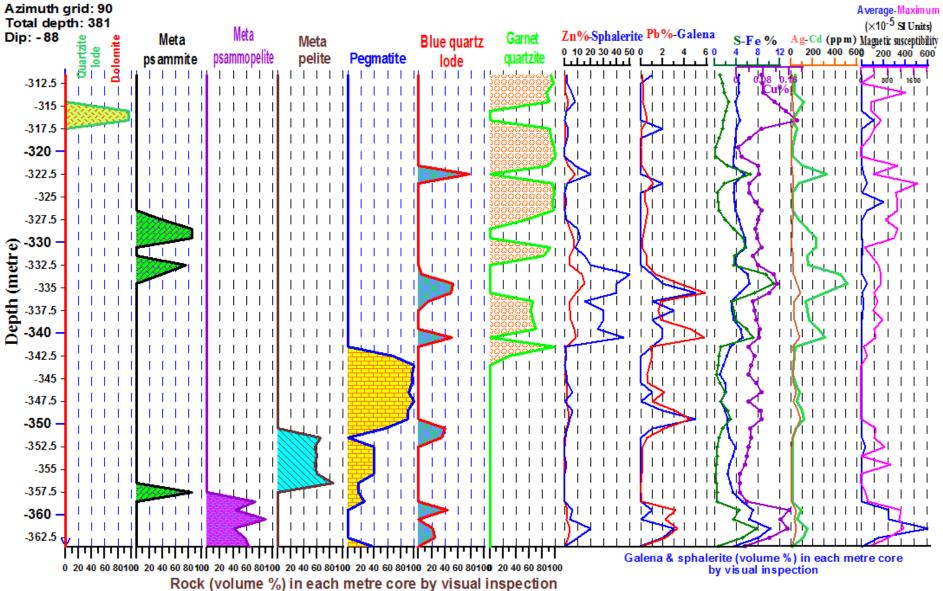
Drill hole: 4002 Azimuth grid: 86 Average-Maximum Total depth: 350 (×10-5 SI Units) Meta Dip: -71 Zn%-Sphalerite Pb%-Galena S-Fe % Ag-Cd (pp m) Magnetic susceptibility 8 12 16 20 0 40 80 120 10 20 30 40 50 Quartzite ∏ode Garnet Blue quartz Meta Meta 0 20 40 60 80 0 5 10 15 20 250 4 ps ammite pelite Pegmatite lode quartzite -292.5 --293.75 -295 -296.25 -297.5 -298.75 -300 Depth (metre) -301.25 -302.5 -303.75 -305 -306.25 -307.5 -308.75 -310 -311.25 -312.5 -313.75 -315

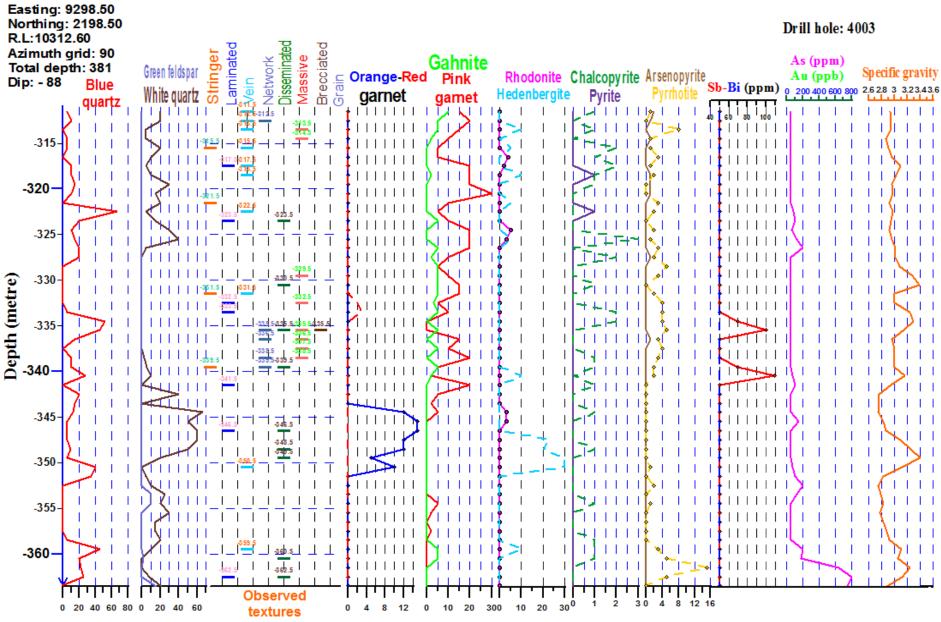
Rock (volume %) in each metre core by visual inspection



Mineral (volume %) in each metre core by visual inspection

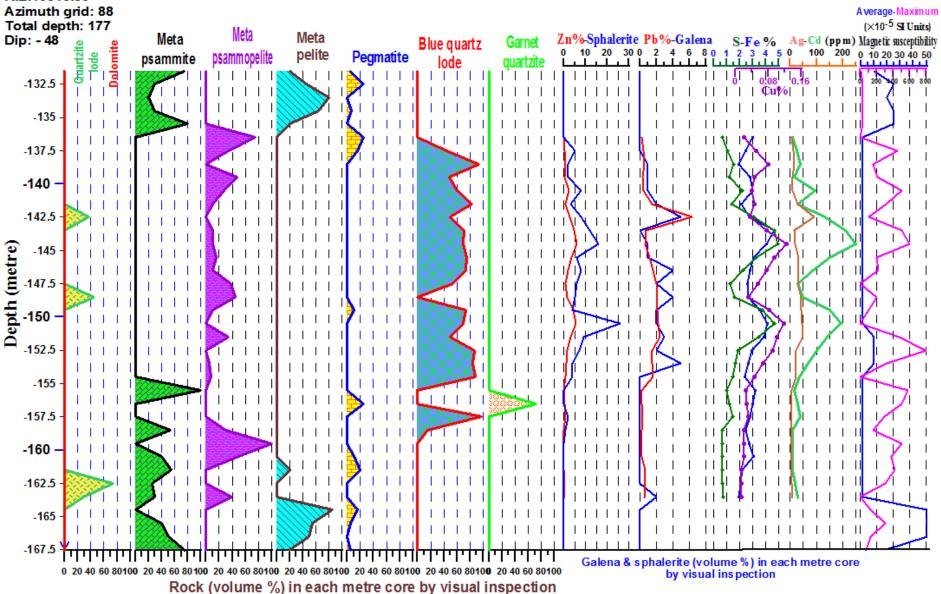
Easting: 9298.50 Northing: 2198.50 R.L:10312.60

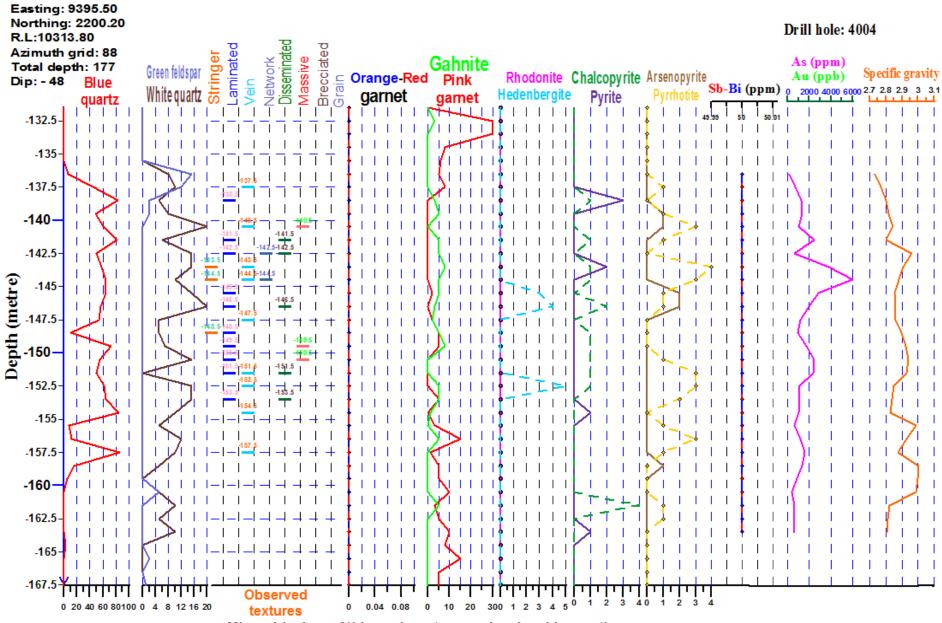




Mineral (volume %) in each metre core by visual inspection

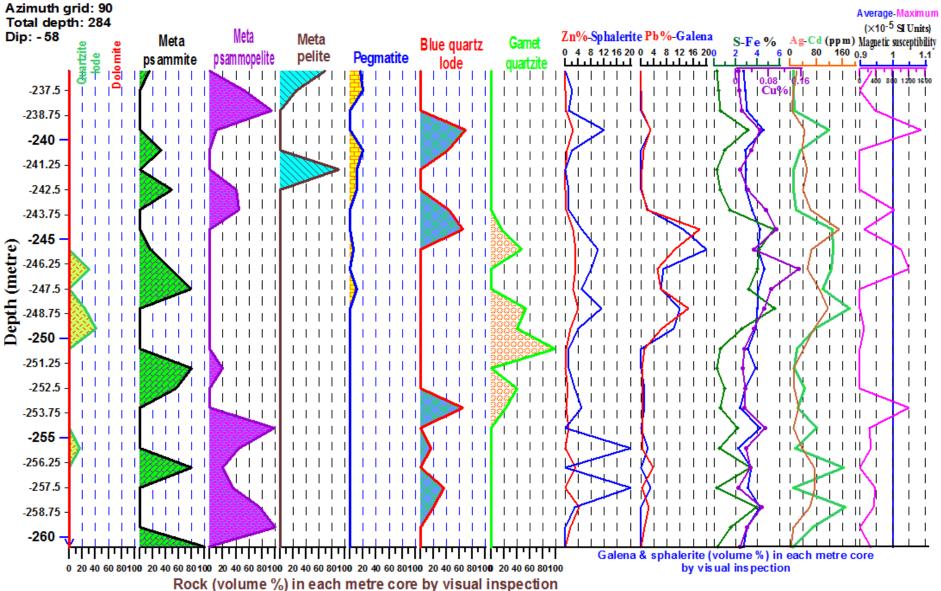
Easting: 9395.50 Northing: 2200.20 R.L:10313.80

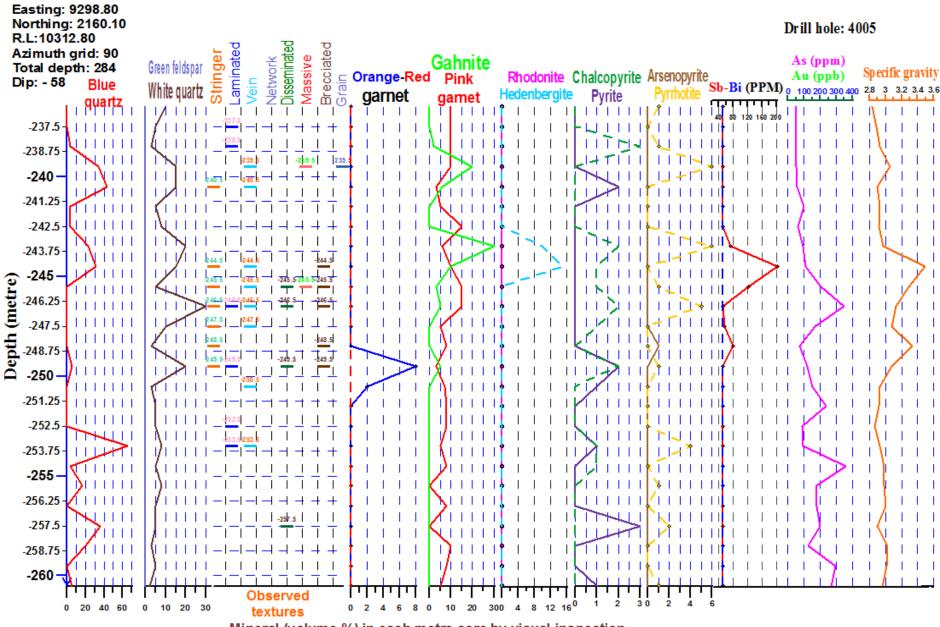




Mineral (volume %) in each metre core by visual inspection

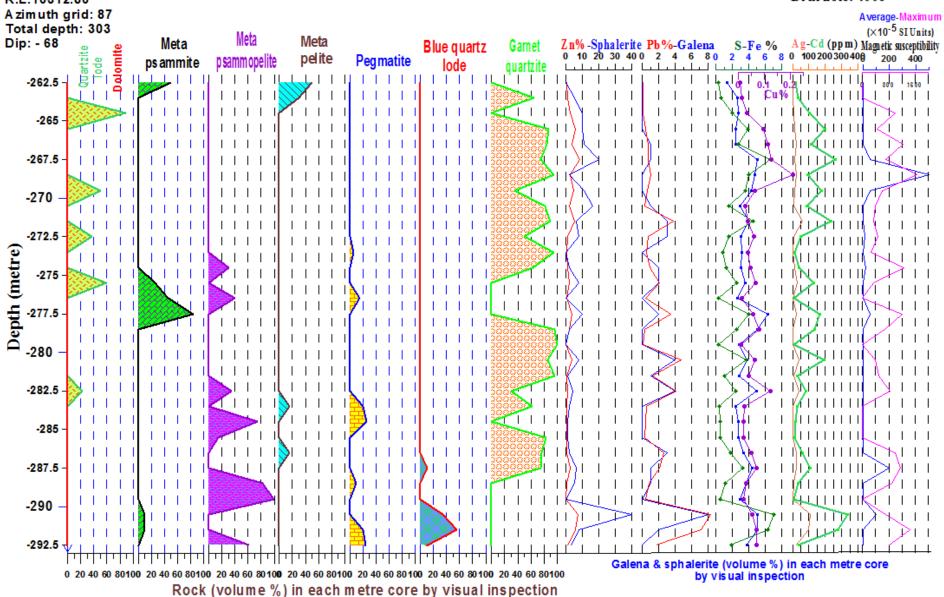
Easting: 9298.80 Northing: 2160.10 R.L:10312.80

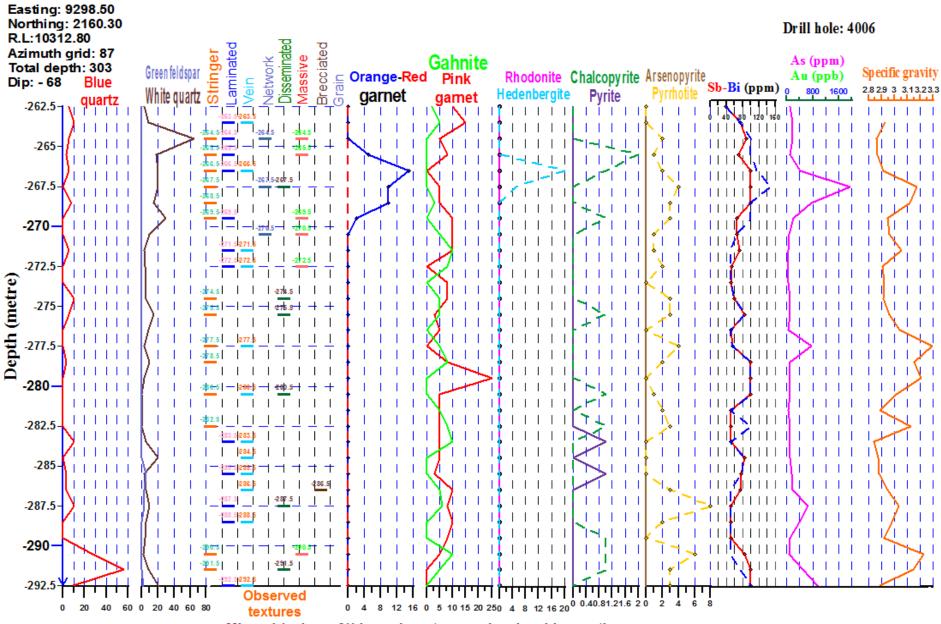




Mineral (volume %) in each metre core by visual inspection

Easting: 9298.50 Northing: 2160.30 R.L:10312.80

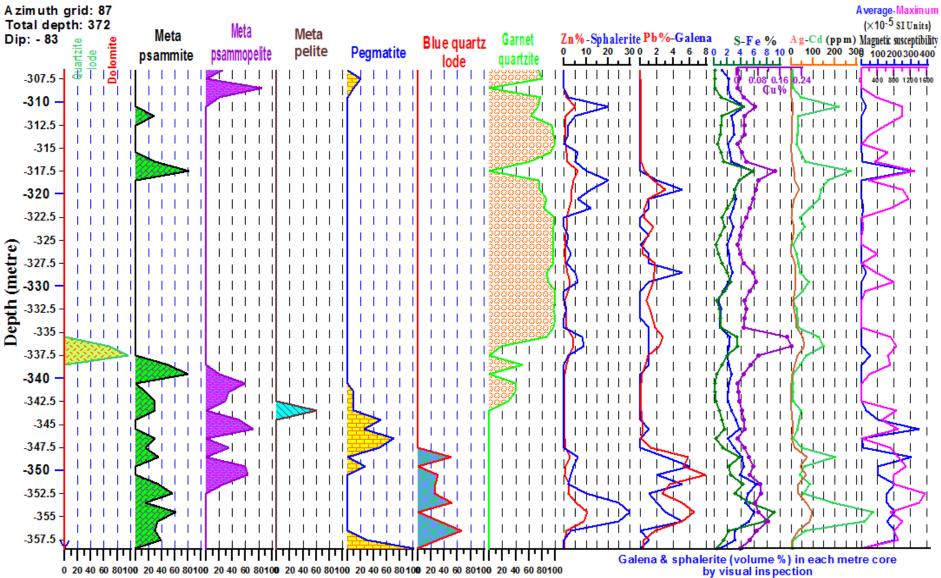




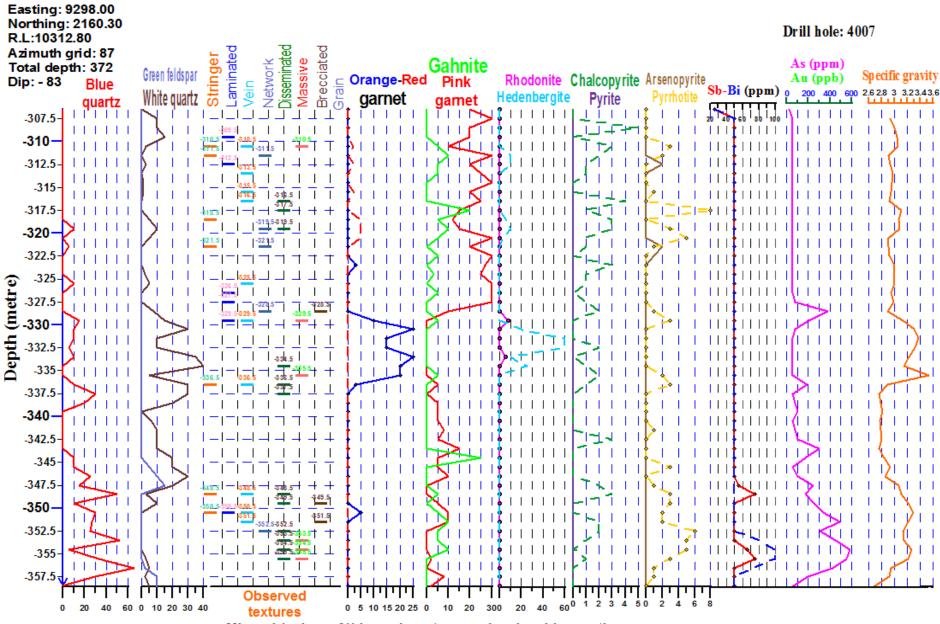
Mineral (volume %) in each metre core by visual inspection

Easting: 9298.00 Northing: 2160.30 R.L:10312.80

Drill hole: 4007

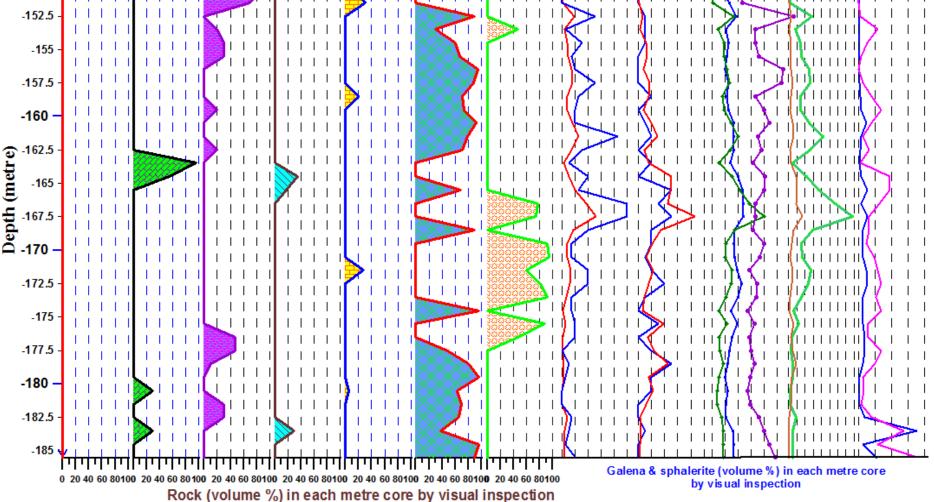


Rock (volume %) in each metre core by visual inspection



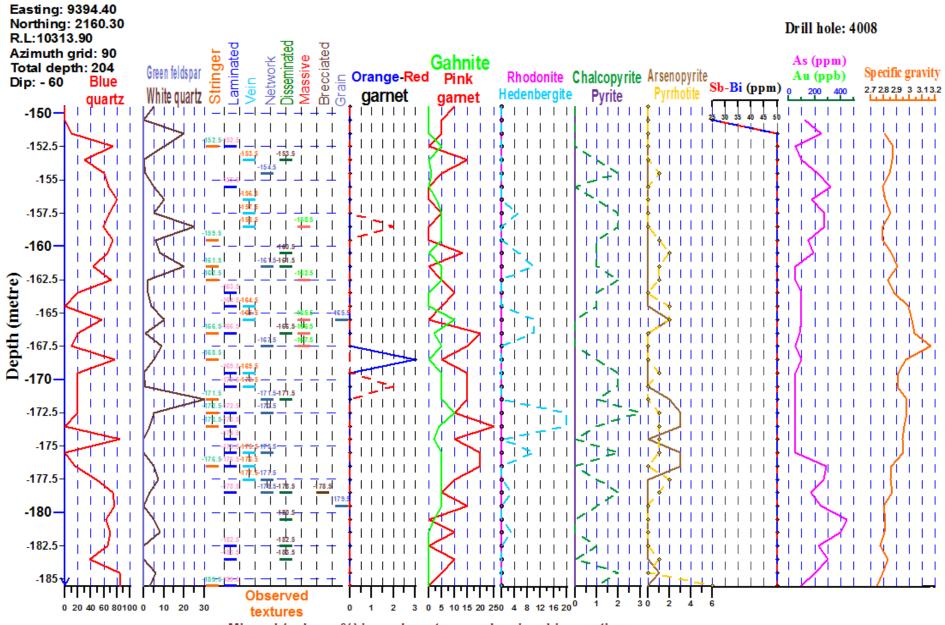
Mineral (volume %) in each metre core by visual inspection

Easting: 9394.40 Northing: 2160.30 Drill hole: 4008 R.L:10313.90 Azimuth grid: 90 Total depth: 204 Meta Zn%-SphaleritePb%-Galena Meta Garnet S-Fe % Ag-Cd (ppm) Magnetic susceptibility Blue quartz Meta Dip: - 60 -Quartzite - tode Do<u>l</u>omite 6 8 10 0 100200300400 100200300400 pelite psammopelite quartzite **Pegmatite** lode ps ammite -150 -\ | Cu% || | -152.5 -155 -157.5 -160 -Depth (metre) -162.5 -165 -167.5 -172.5 -175



Average-Maximum

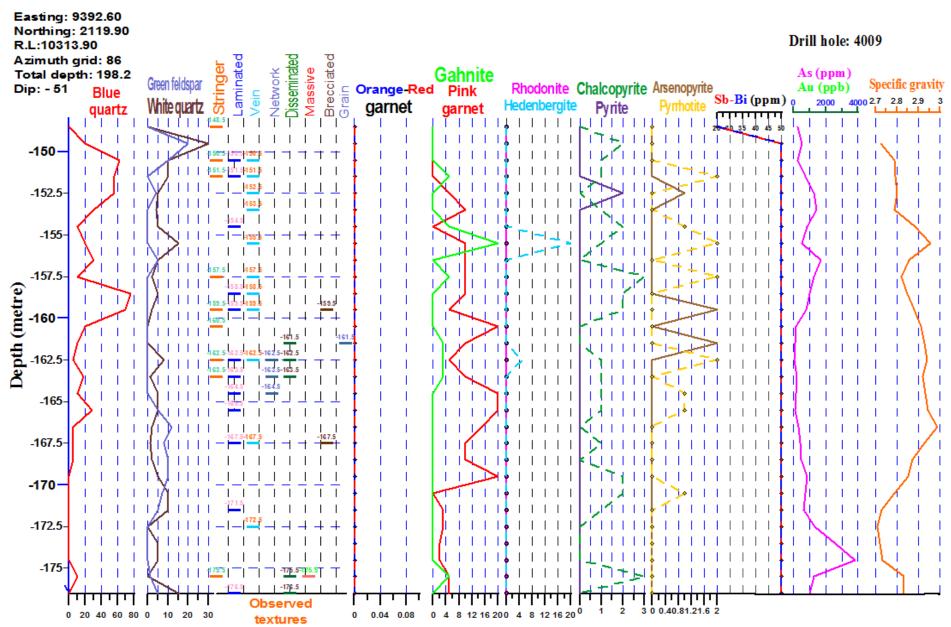
(×10⁻⁵ SI Units)



Mineral (volume %) in each metre core by visual inspection

Easting: 9392.60 Northing: 2119.90 Drill hole: 4009 R.L:10313.90 Average-Maximum Azimuth grid: 86 (×10⁻⁵ SI Units) Total depth: 198.2 Meta Meta Zn%-Sphalerite Pb%-Galena Dip: - 51 Meta Garnet S-Fe% Ag-Cd (ppm) Magnetic susceptibility - Quartzite olomite Blue quartz Tode pelite **Pegmatite** psammopelite psammite quartzite lode IL I I I I -150 --152.5 -155 --157.5 Depth (metre) -160 -162.5 -165 -167.5 --170 --172.5 -175

Rock (volume %) in each metre core by visual inspection



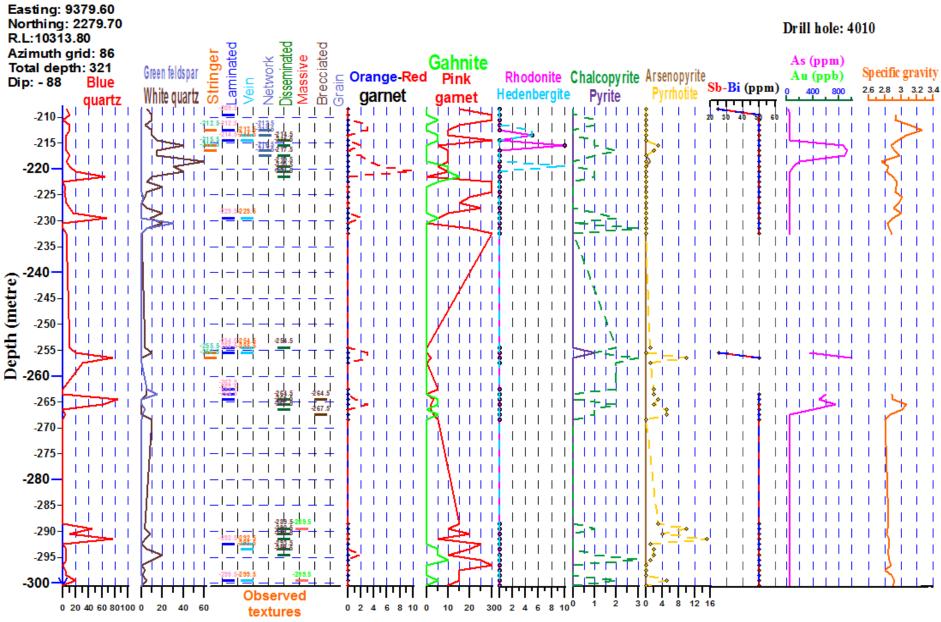
Mineral (volume %) in each metre core by visual inspection

Easting: 9379.60 Northing: 2279.70 Drill hole: 4010 R.L:10313.80 Average-Maximum Azimuth grid: 86 (×10-5 SI Units) Total depth: 321 Dip: - 88 Meta Quartzite: Meta Zn%-SphaleritePb%-Galena 0 20 40 60 0 2 4 6 8 100 S-Fe % Ag-Cd (ppm) Magnetic susceptibility Meta Garnet Blue quartz 12 16 0 200400600800 psammopelite Pegmatite pelite psammite lode quartzite -210 -215 -220 -225 -230 -235 -240 Depth (metre) -245 -250 -255 -260 -265 -270 -275 -280 -285 -290 -295

Rock (volume %) in each metre core by visual inspection

Galena & sphalerite (volume %) in each metre core by visual inspection

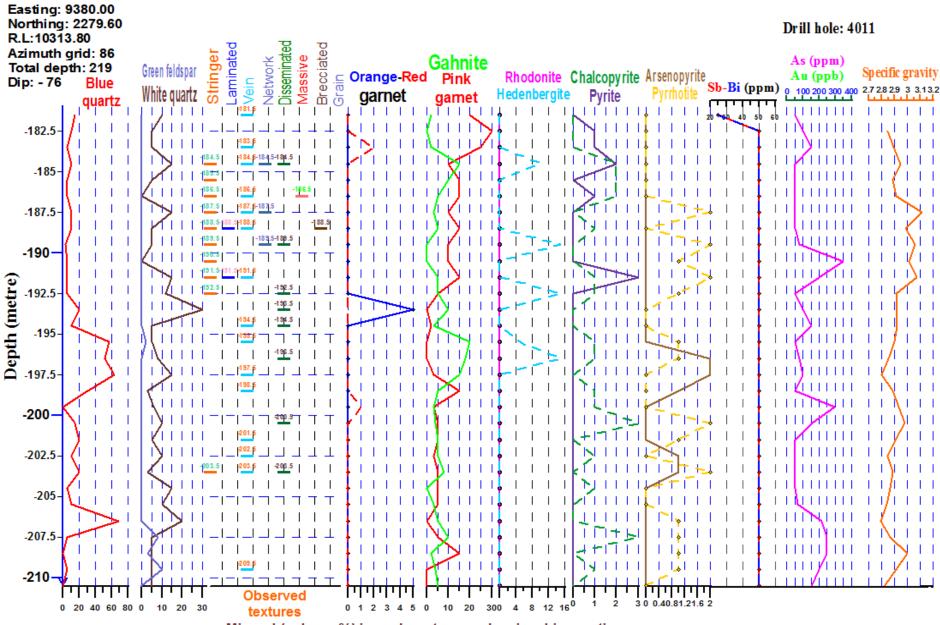
-300



Mineral (volume %) in each metre core by visual inspection

Easting: 9380.00 Northing: 2279.60 Drill hole: 4011 R.L:10313.80 Average-Maximum Azimuth grid: 86 (×10⁻⁵ SI Units) Total depth: 219 Meta Zn%-Sphalerite Pb%-Galena S-Fe % Ag-Cd (ppm) Magnetic susceptibility Dip: - 76 Meta Garnet Meta Blue quartz Delomite 2 3 pelite quartzite Pegmatite ps ammite lode المعامعا عألا -182.5 -185 -187.5 -190 -I + I + I + IDepth (metre) -192.5 -195 -197.5 -200 -202.5 -205 -207.5 -210 -

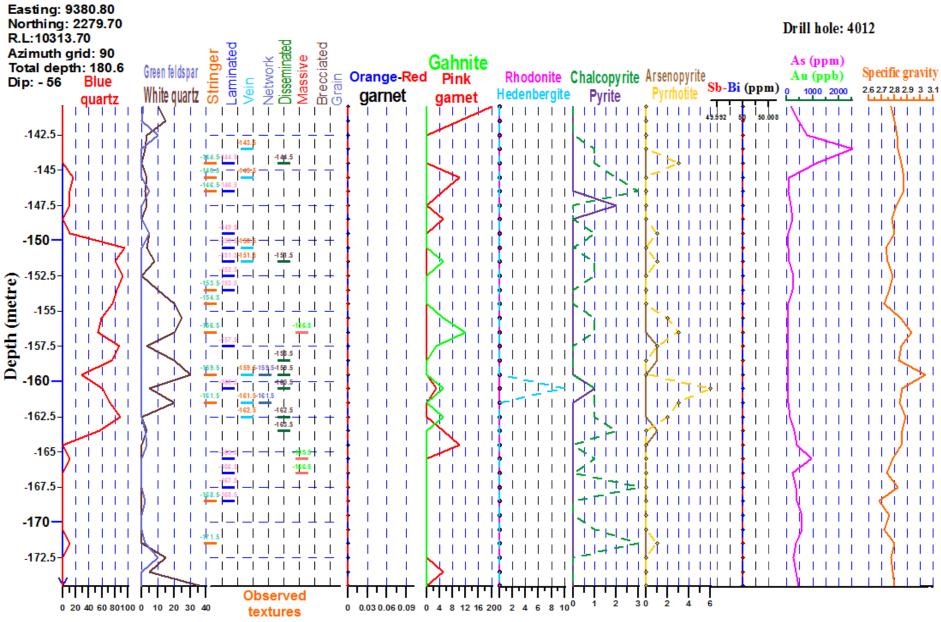
Rock (volume %) in each metre core by visual inspection



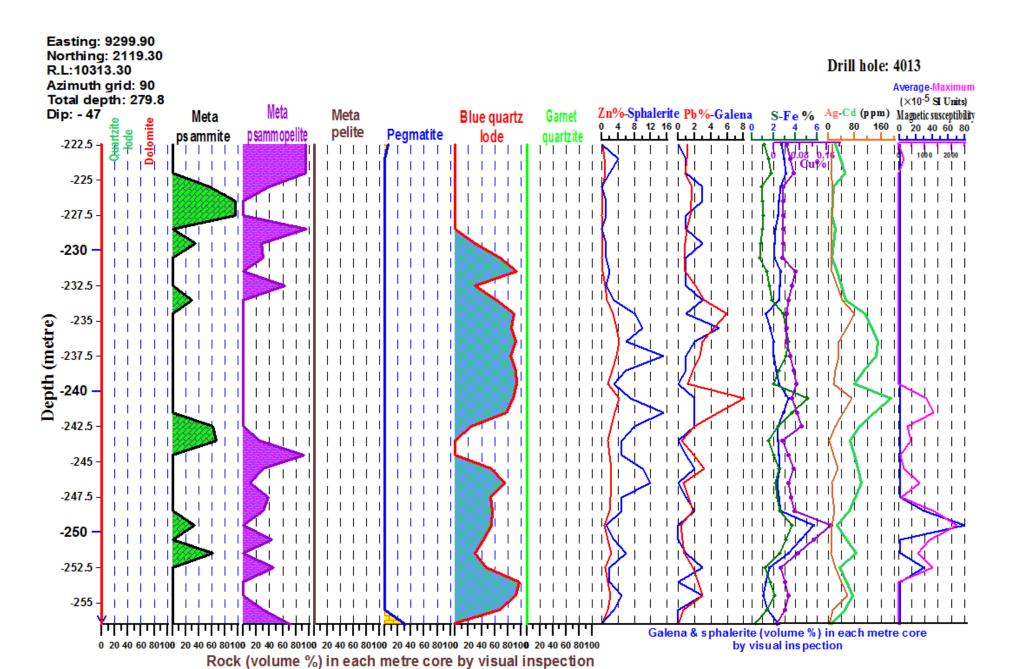
Mineral (volume %) in each metre core by visual inspection

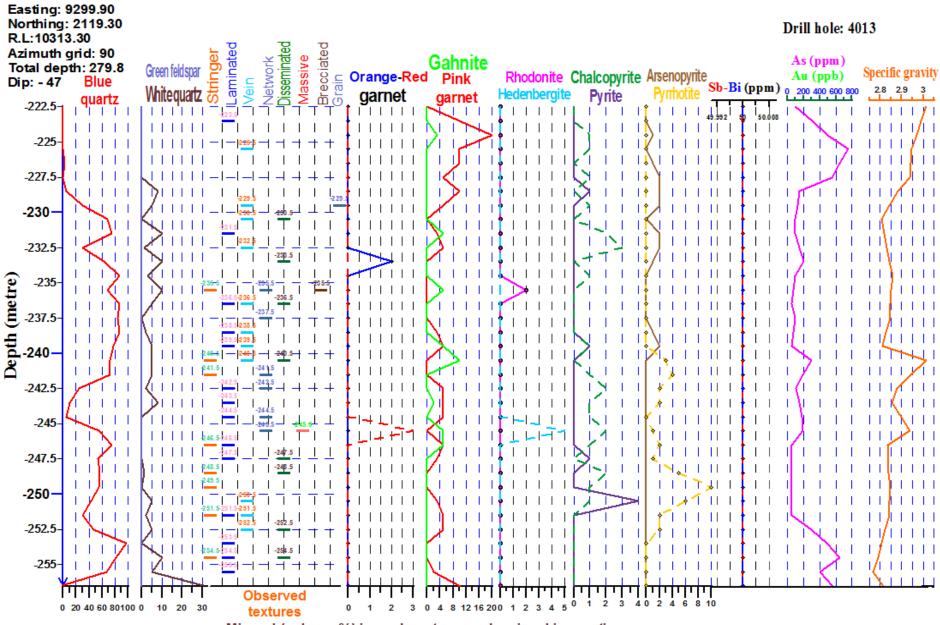
Easting: 9380.80 Northing: 2279.70 Drill hole: 4012 R.L:10313.70 Average-Maximum Azimuth grid: 90 (×10⁻⁵ SI Units) Total depth: 180.6 Meta Meta Zn%-Sphalerite Pb%-Galena Garnet Dip: - 56 Meta S-Fe % Ag-Cd (ppm) Magnetic susceptibility Blue quartz Dolomite 8 10 0 200 400 0 20 40 60 80 pelite p samm opelite ps ammite Pegmatite quartzite lode -142.5 -145 -147.5 -150 -Depth (metre) 155.5 155.5 157.5 160 -162.5 -165 --167.5 -170 --172.5

Rock (volume %) in each metre core by visual inspection



Mineral (volume %) in each metre core by visual inspection



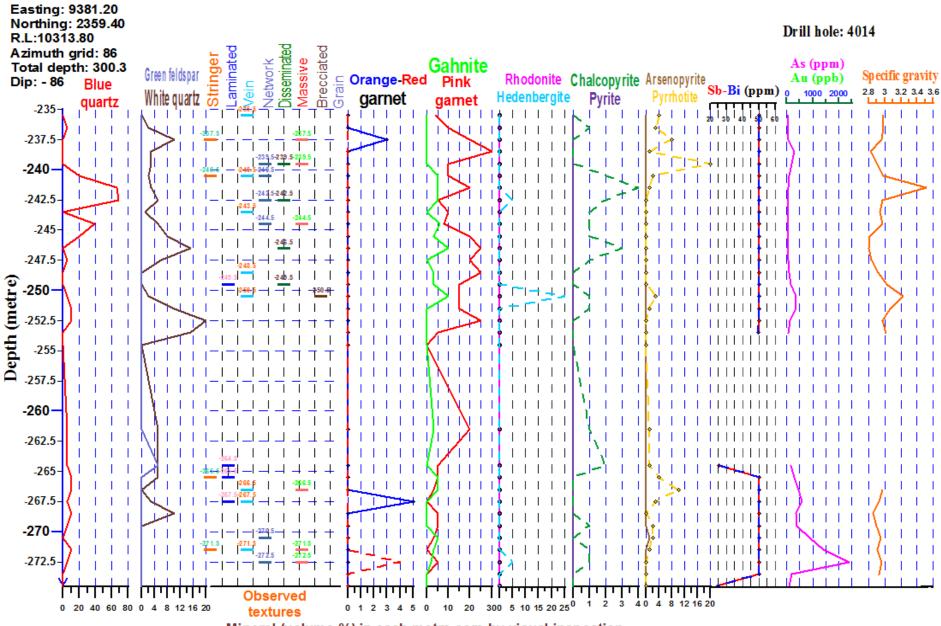


Mineral (volume %) in each metre core by visual inspection

Easting: 9381.20 Northing: 2359.40 Drill hole: 4014 R.L:10313.80 Azimuth grid: 86 Average-Maximum (×10⁻⁵ SI Units) Total depth: 300.3 Meta Meta Meta Dip: - 86 Zn%-Sphalerite Pb%-Galena 0 4 8 12 16 20 0 2 4 6 0 Blue quartz S-Fe % Ag-Cd (ppm) Magnetic susceptibility Quartzite Tode Garnet Dolomite pelite 100 200 30A p samm opelite Pegmatite ps ammite lode quartzite -235 -237.5 -240 -242.5 -245 -247.5 -Depth (metre) -250 -252.5 -255 -257.5 -260 -262.5 -265 -267.5 --270 --272.5 Galena & sphalerite (volume %) in each metre core

Rock (volume %) in each metre core by visual inspection

by visual inspection

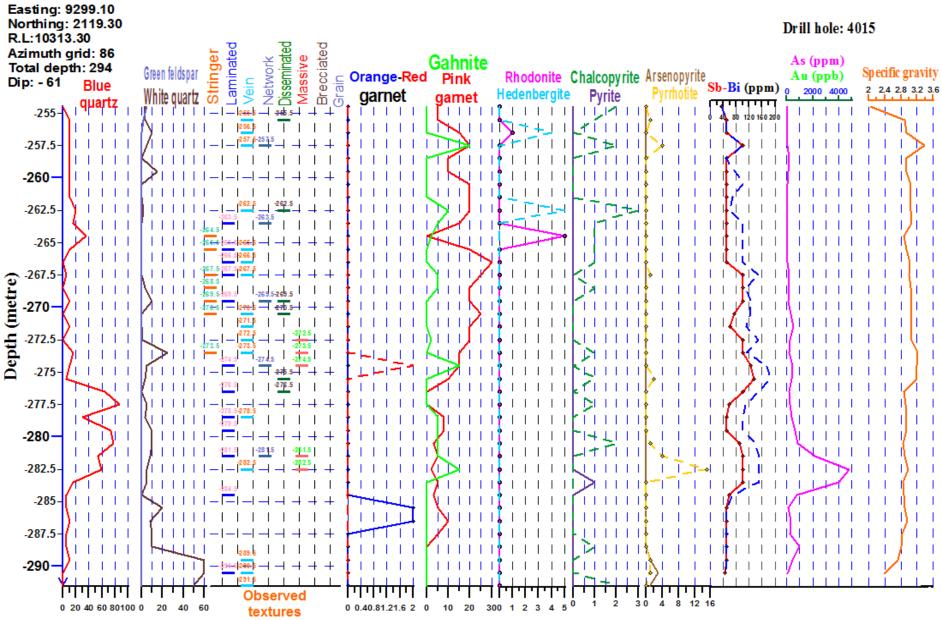


Mineral (volume %) in each metre core by visual inspection

Easting: 9299.10 Northing: 2119.30 Drill hole: 4015 R.L:10313.30 Average-Maximum Azimuth grid: 86 (×10-5 SI Units) Total depth: 294 Meta Meta Zn%-Sphalerite Pb%-Galena Ag-Cd (ppm) Magnetic susceptibility Meta Blue quartz Garnet Dip: - 61 pelite 20 300 8 12 160 4 6 0 200 p samm opelite 8 ps ammite **Pegmatite** lode quartzite -257.5 -260 -262.5 -265 -267.5 Depth (metre) -270 -272.5 -275 -277.5 -280 -282.5 -**4** | | | **4** -285 -287.5 --290

Rock (volume %) in each metre core by visual inspection

Galena & sphalerite (volume %) in each metre core by visual inspection



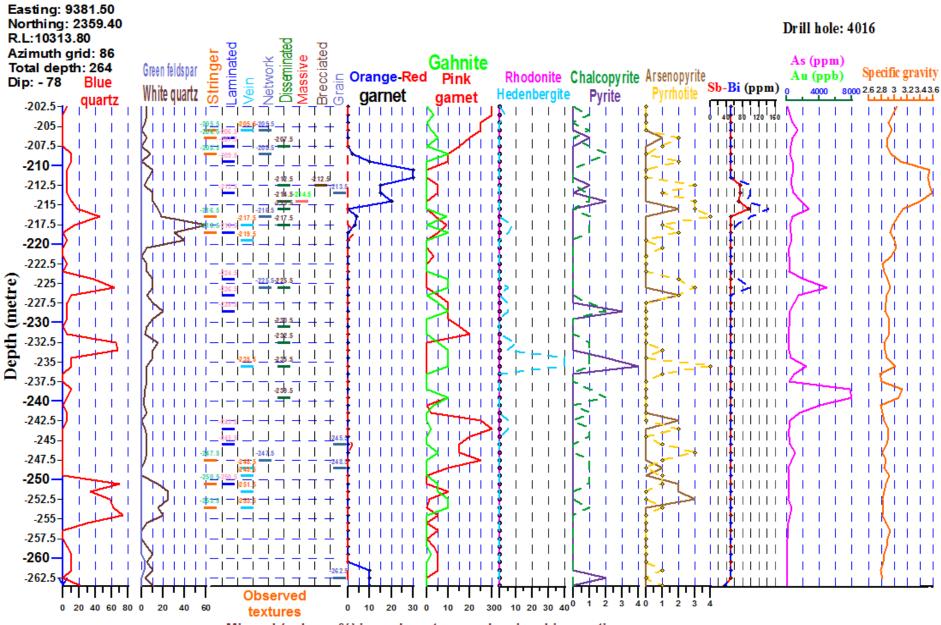
Mineral (volume %) in each metre core by visual inspection

Easting: 9381.50 Northing: 2359.40 Drill hole: 4016 R.L:10313.80 Average-Maximum Azimuth grid: 86 (×10⁻⁵ SI Units) Total depth: 264 Meta Zn%-Sphalerite Pb%-Galena Meta Garnet Meta S-Fe % Ag-Cd (ppm) Magnetic susceptibility Dip: - 78 Blue quartz -- Quartzite -- Tode Dolomite 2 3 4 5 0 pelite psammopelite Pegmatite quartzite psammite lode -202.5 -205 -207.5 -210 --212.5 -215 I + I + I-217.5 -220 -222.5 Depth (metre) -225 -227.5 -230 --232.5 -235 -237.5 -240 -242.5 -245 -247.5 -250 -252.5 -255 -257.5 -260

Galena & sphalerite (volume %) in each metre core by visual inspection

Rock (volume %) in each metre core by visual inspection

-262.5



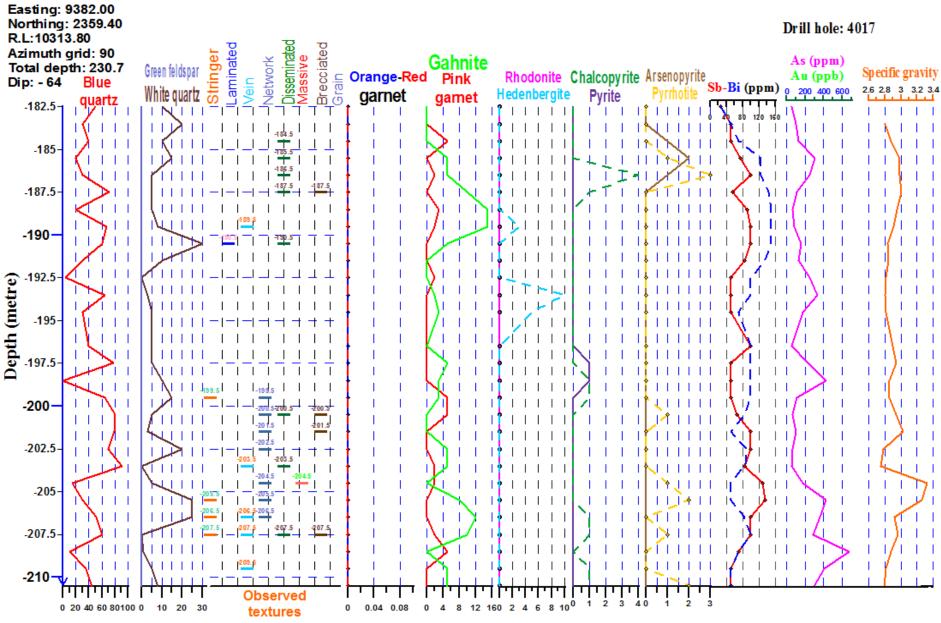
Mineral (volume %) in each metre core by visual inspection

Easting: 9382.00 Northing: 2359.40 Drill hole: 4017 R.L:10313.80 Average-Maximum Azimuth grid: 90 (×10⁻⁵ SI Units) Total depth: 230.7 Meta Meta Meta Blue quartz Garnet Zn%-Sphalerite Pb%-Galena S-Fe% Ag-Cd (ppm) Magnetic susceptibility Dip: - 64 -- Quartzite -- Tode -- Dolomite 0 10 20 30 40 0 120 2 4 6 8 1012 0 200 pelite Pegmatite psammite lode quartzite -182.5 --185 -187.5 --190 Depth (metre) -200 -202.5 --205 -207.5 -

Rock (volume %) in each metre core by visual inspection

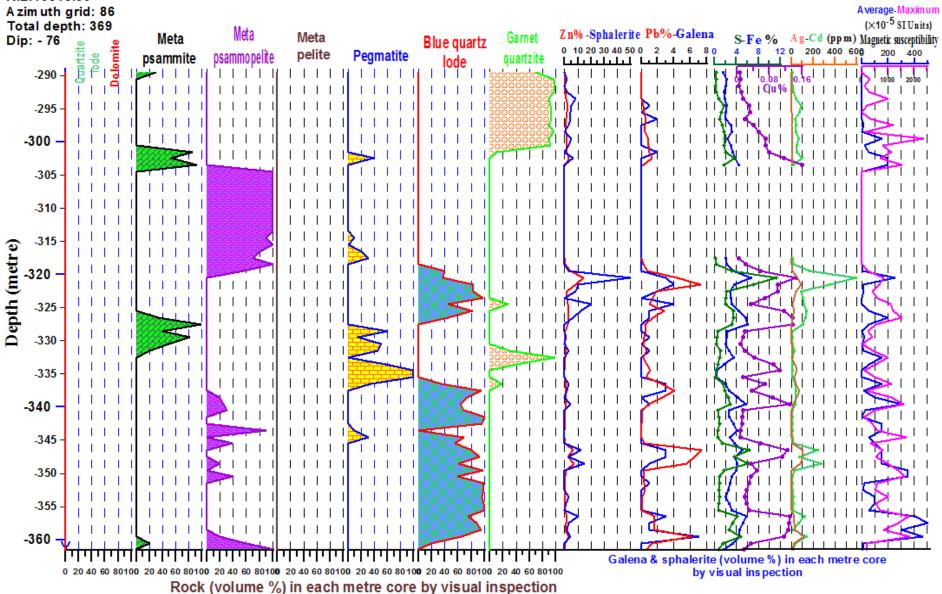
Galena & sphalerite (volume %) in each metre core by visual inspection

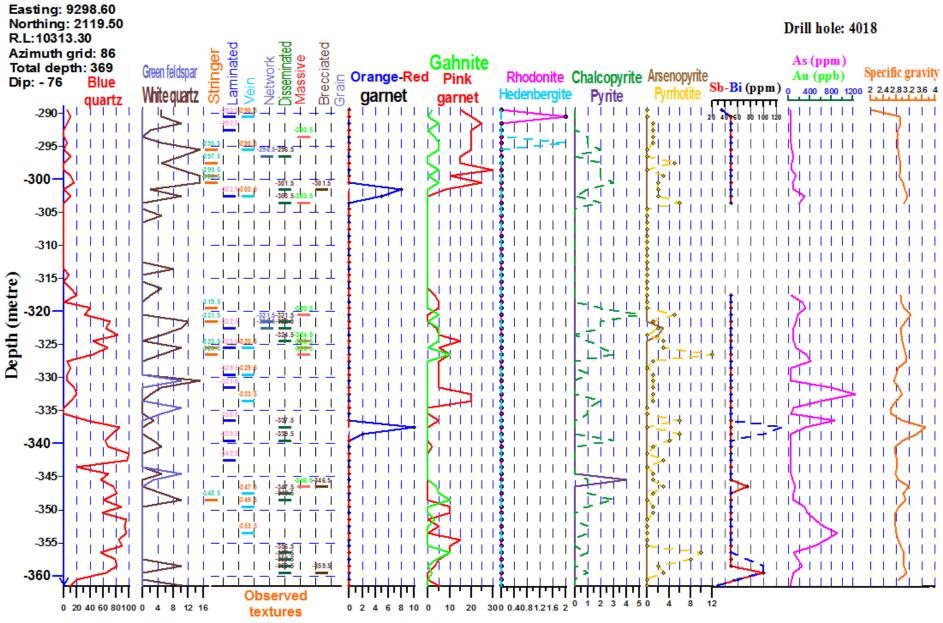
-210 -



Mineral (volume %) in each metre core by visual inspection

Easting: 9298.60 Northing: 2119.50 R.L:10313.30





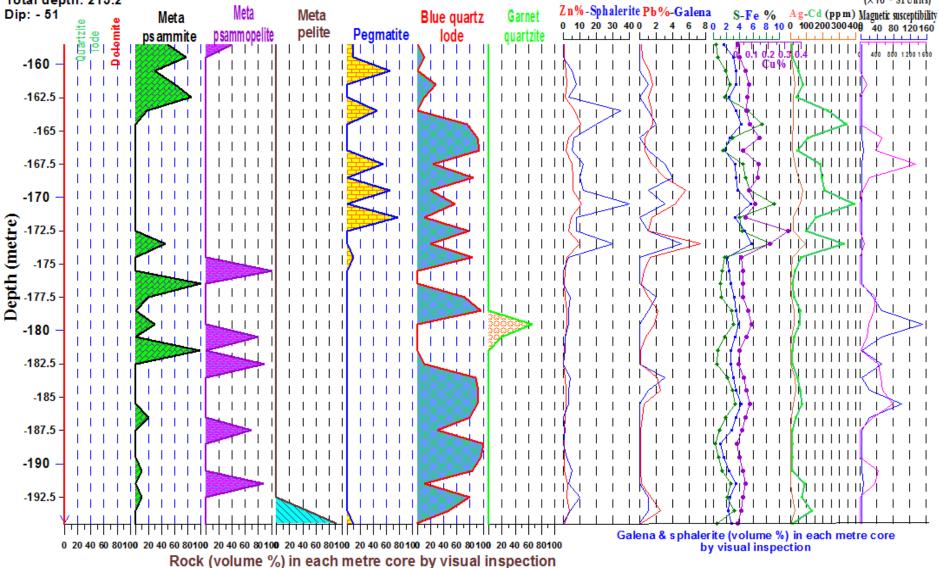
Mineral (volume %) in each metre core by visual inspection

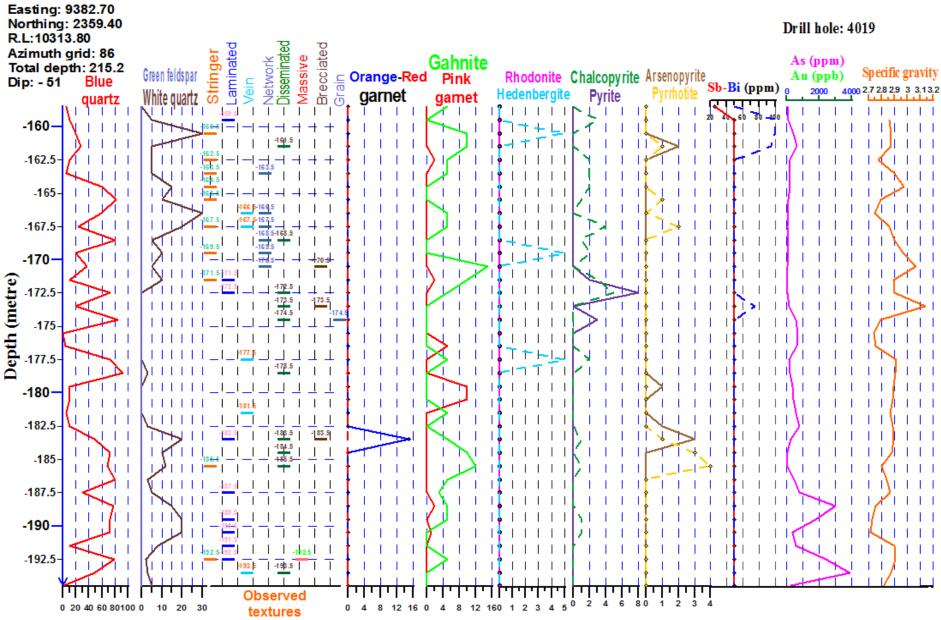
Easting: 9382.70 Northing: 2359.40 R.L:10313.80 A zim uth grid: 86 Total depth: 215.2 Meta Dip: - 51 Meta -Dolomite Quartzite Tode ps ammite -160 -162.5 -165 I I I I-167.5 -170 -172.5

Drill hole: 4019

Average-Maximum

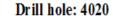


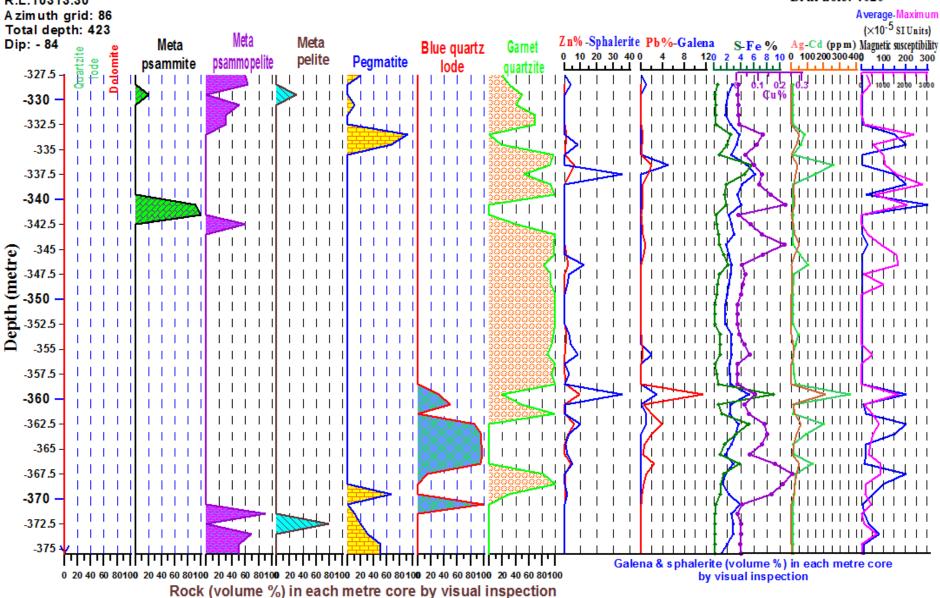


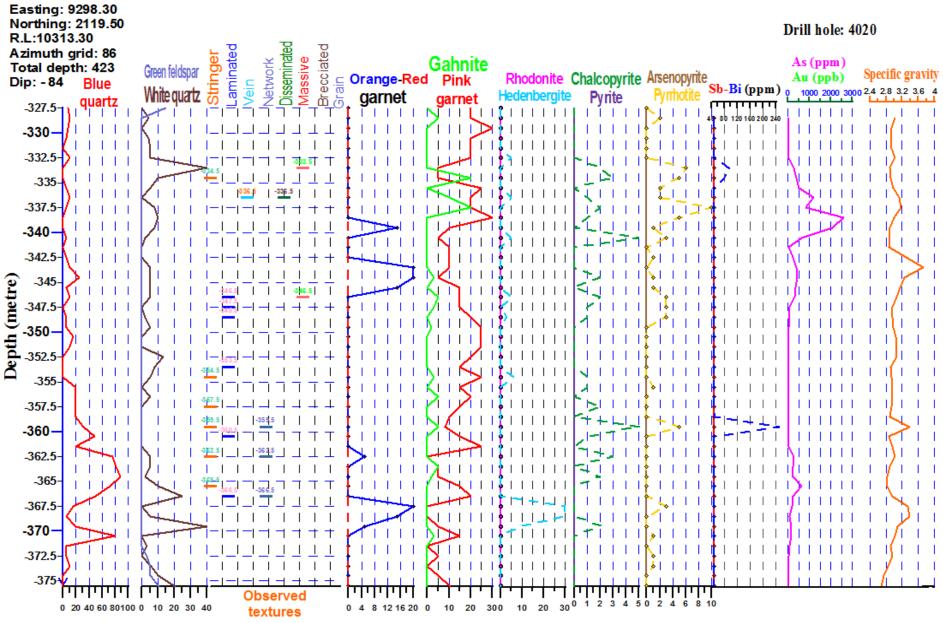


Mineral (volume %) in each metre core by visual inspection

Easting: 9298.30 Northing: 2119.50 R.L:10313.30 Azimuth grid: 86 Total depth: 423 Dip: - 84 Meta Quartzite
Tode psammite -327.5 -330 --332.5 -335 -337.5 -340 -

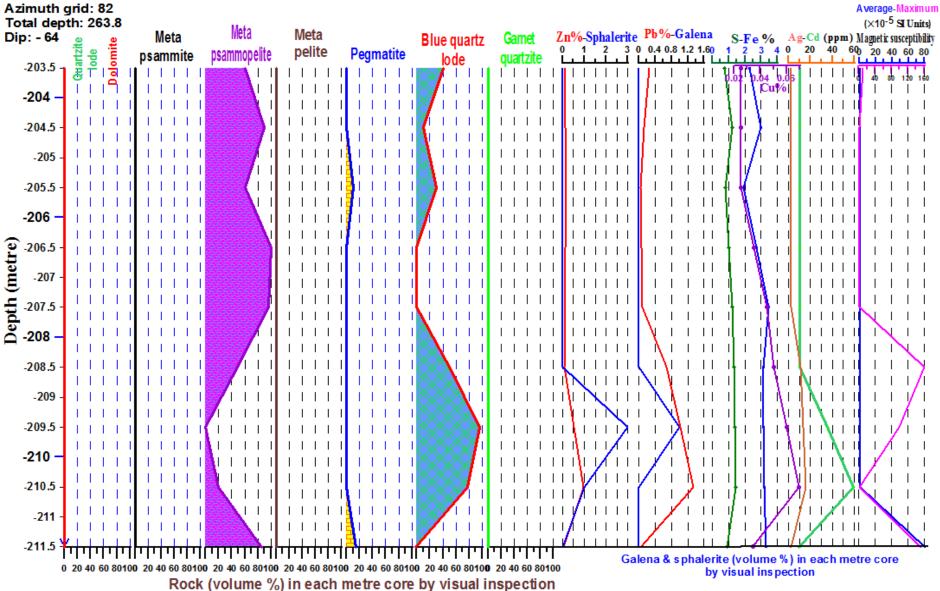


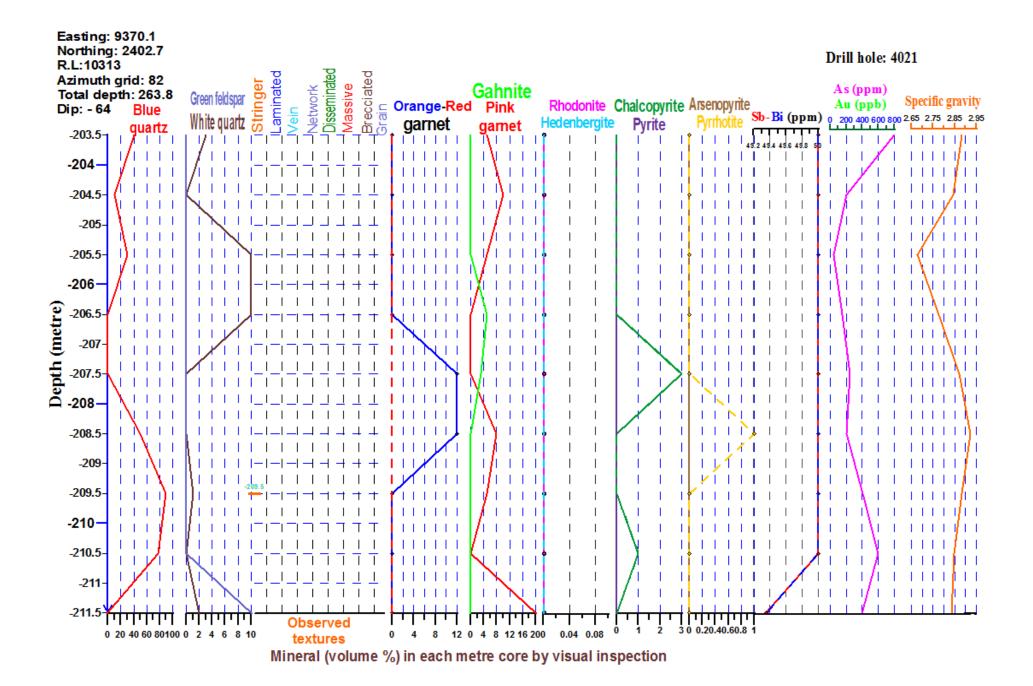




Mineral (volume %) in each metre core by visual inspection

Easting: 9370.1
Northing: 2402.7
R.L:10313
Azimuth grid: 82
Total depth: 263.8
Dip: - 64

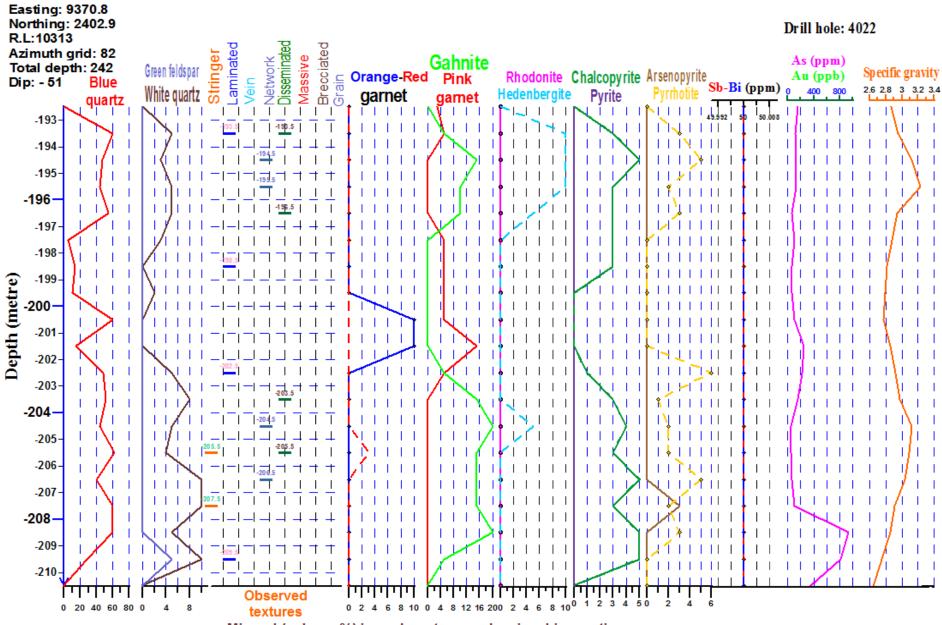




Easting: 9370.8 Northing: 2402.9 Drill hole: 4022 R.L:10313 Average-Maximum (×10⁻⁵ SI Units) Azimuth grid: 82 Total depth: 242 Meta Meta Dip: - 51 Zn%-Sphalerite Pb%-Galena Ag-Cd (ppm) Magnetic susceptibility Meta Cuartzite
Tode
Dolomite Garnet S-Fe % Blue quartz 8 10 0 100 200 300 400 pelite p samm opelite **Pegmatite** ps ammite lode -193 -194 -195 -196 -197 -198 -199 Depth (metre) -200 -201 -202 -203 -204 -205 -206 -207 -208 -209 -210

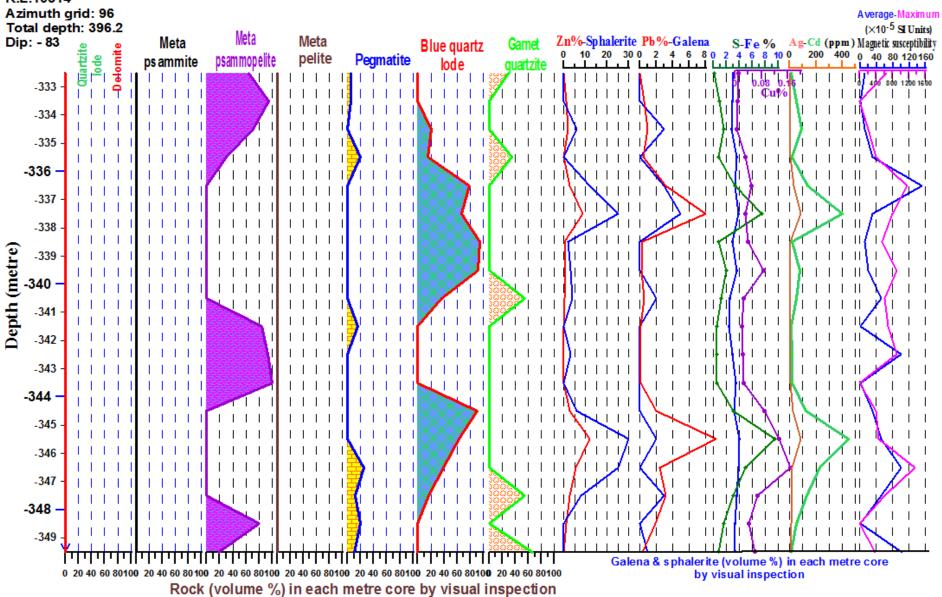
Galena & sphalerite (volume %) in each metre core by visual inspection

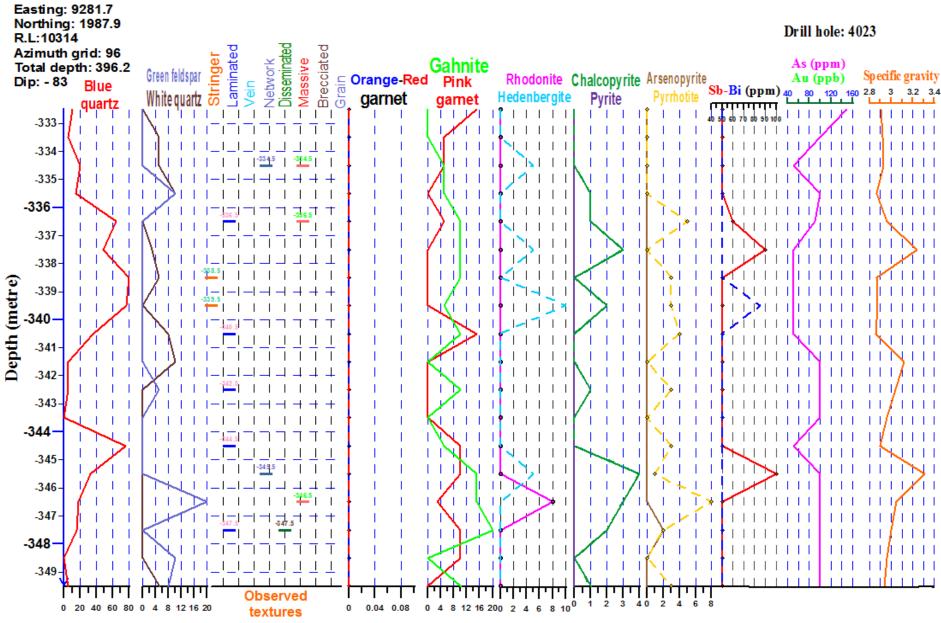
Rock (volume %) in each metre core by visual inspection



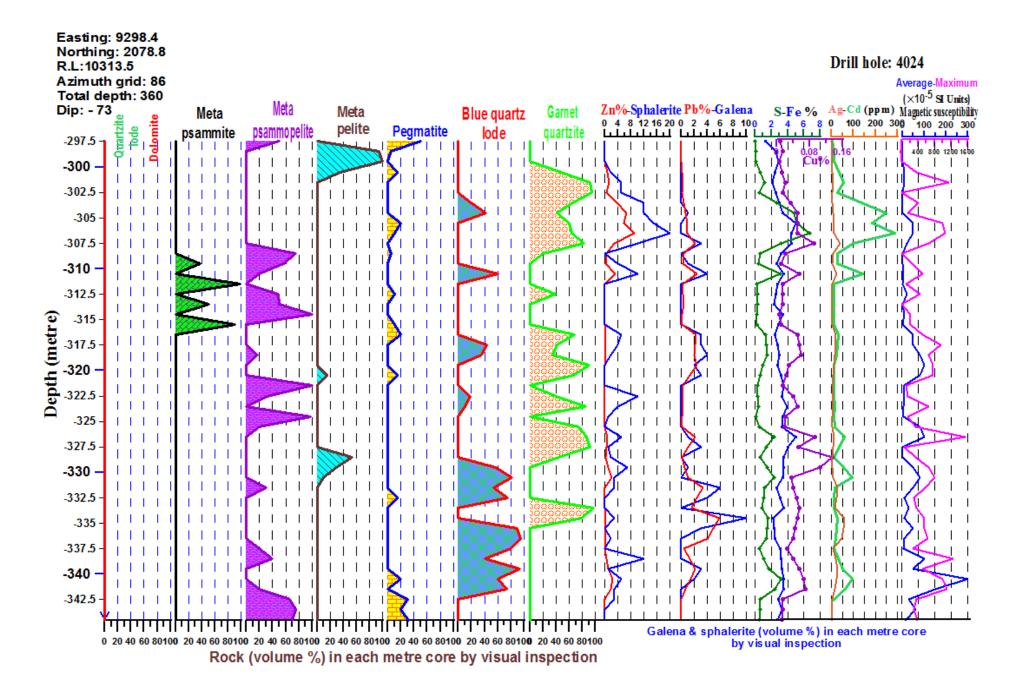
Mineral (volume %) in each metre core by visual inspection

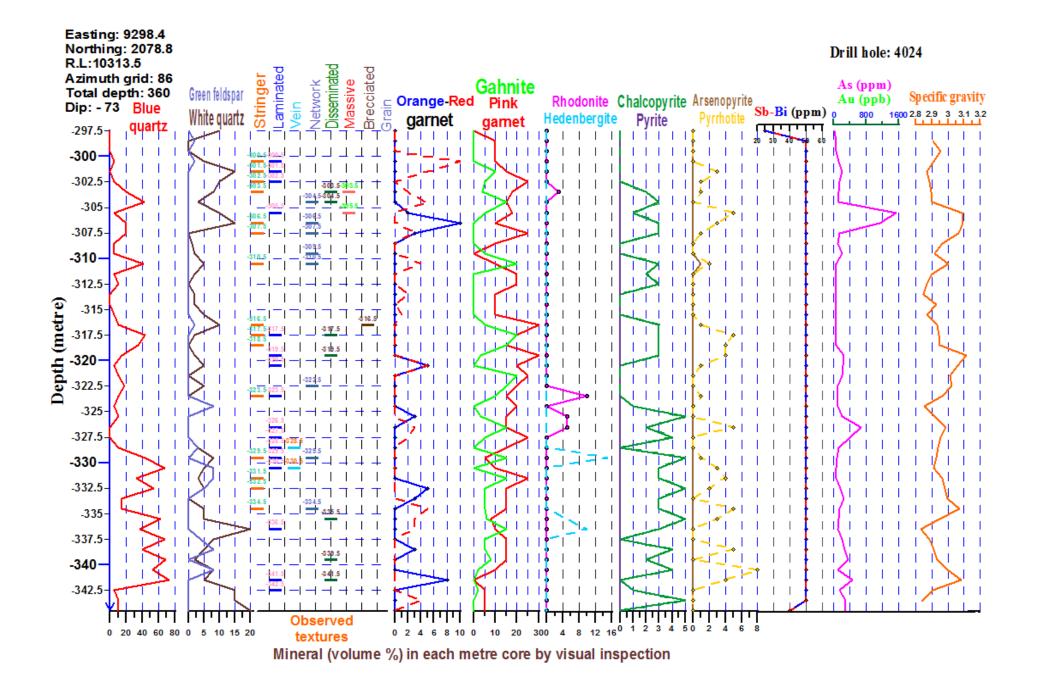
Easting: 9281.7 Northing: 1987.9 R.L:10314



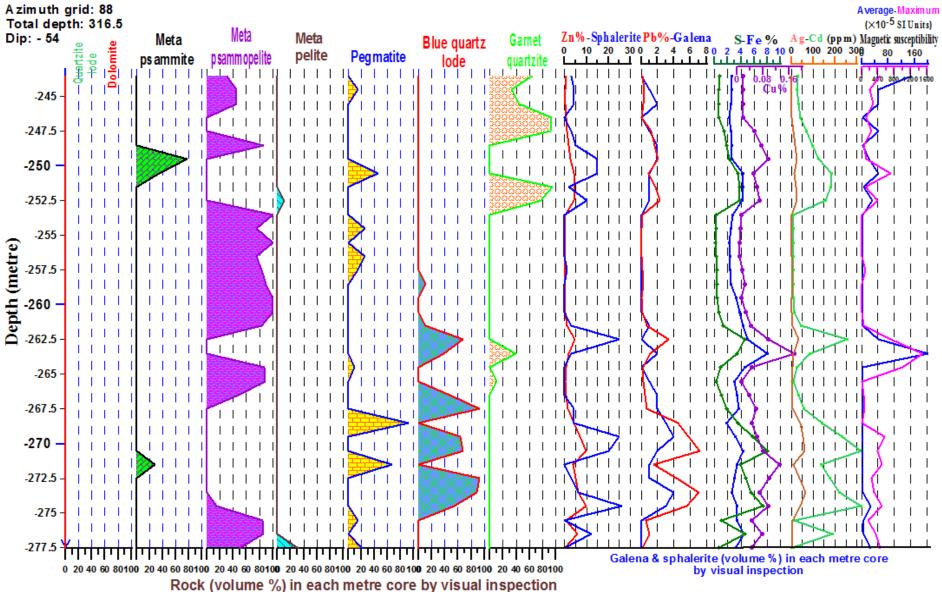


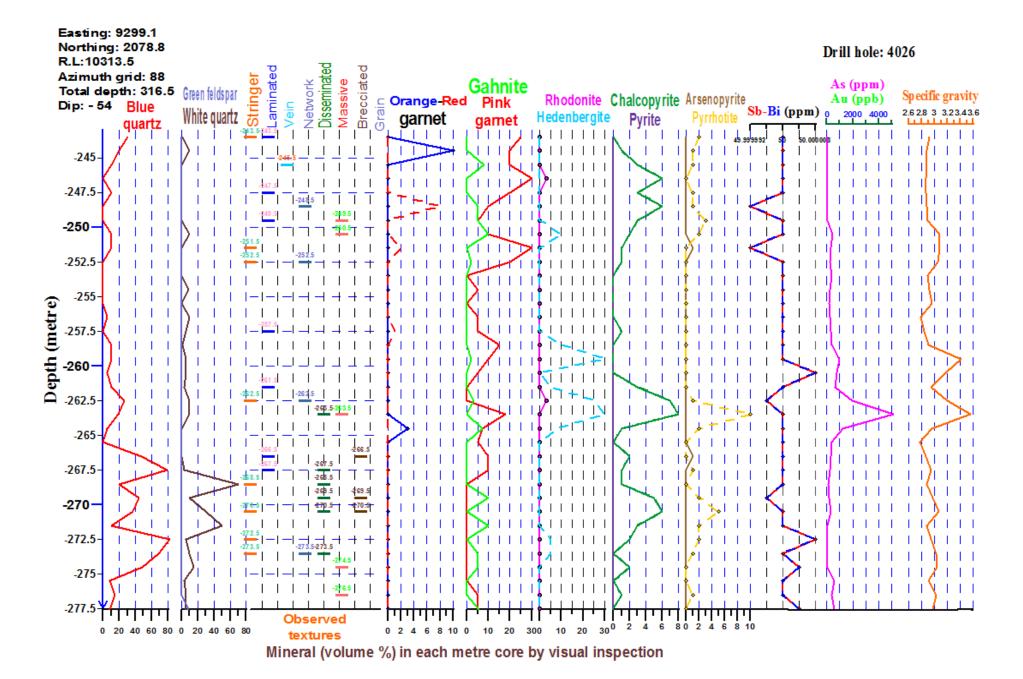
Mineral (volume %) in each metre core by visual inspection



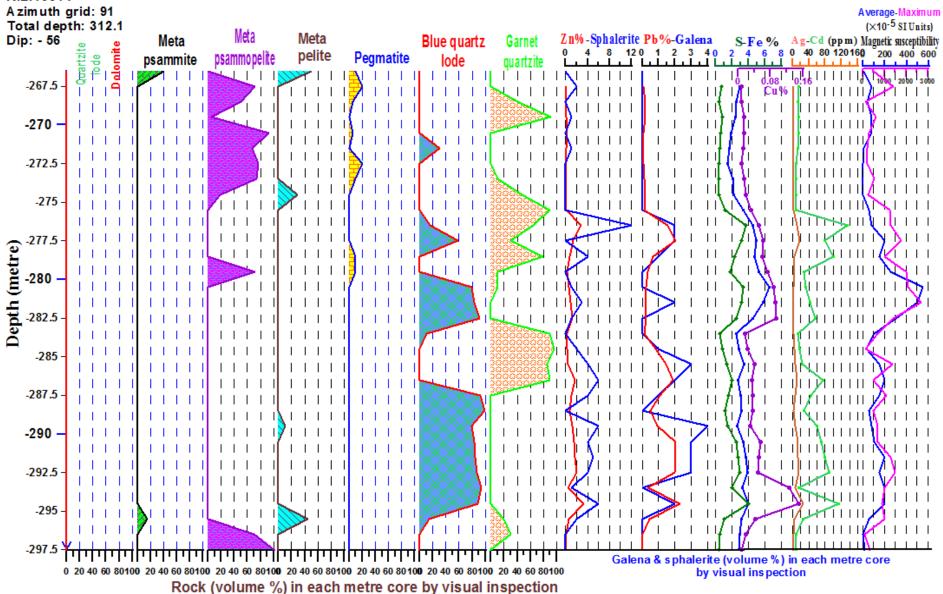


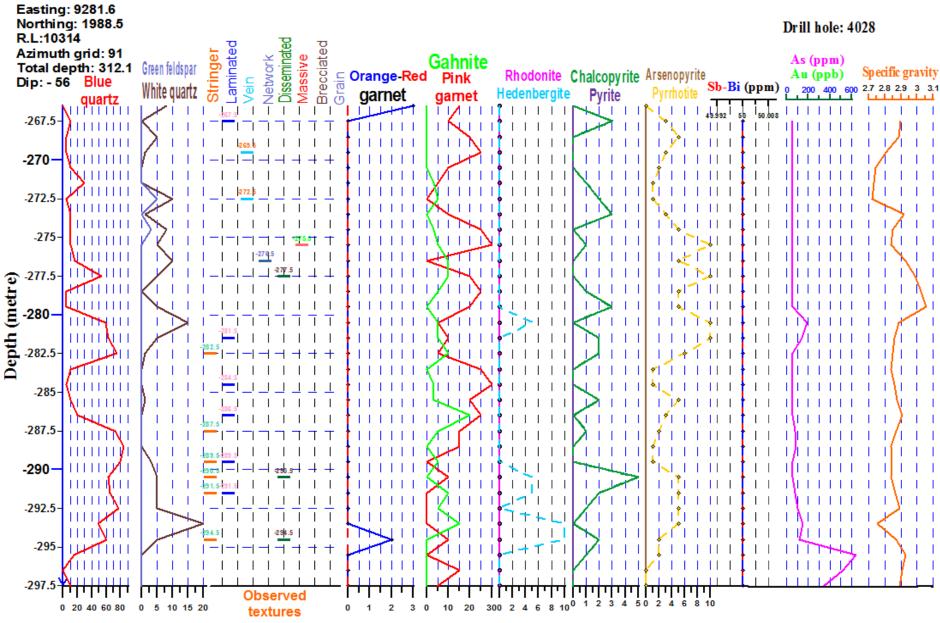
Easting: 9299.1 Northing: 2078.8 R.L:10313.5 Azimuth grid: 88 Total depth: 316. Dip: - 54





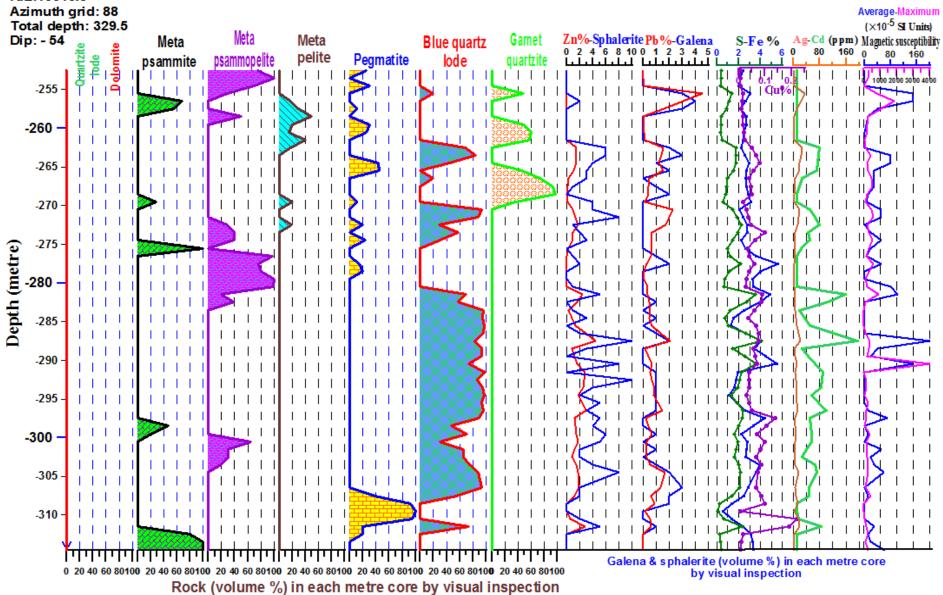
Easting: 9281.6 Northing: 1988.5 R.L:10314

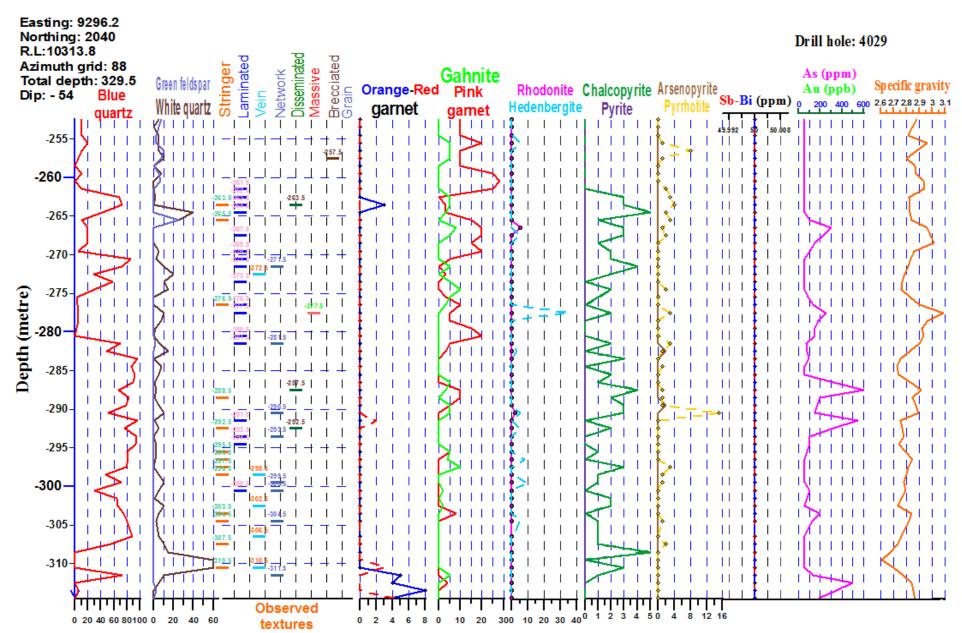




Mineral (volume %) in each metre core by visual inspection

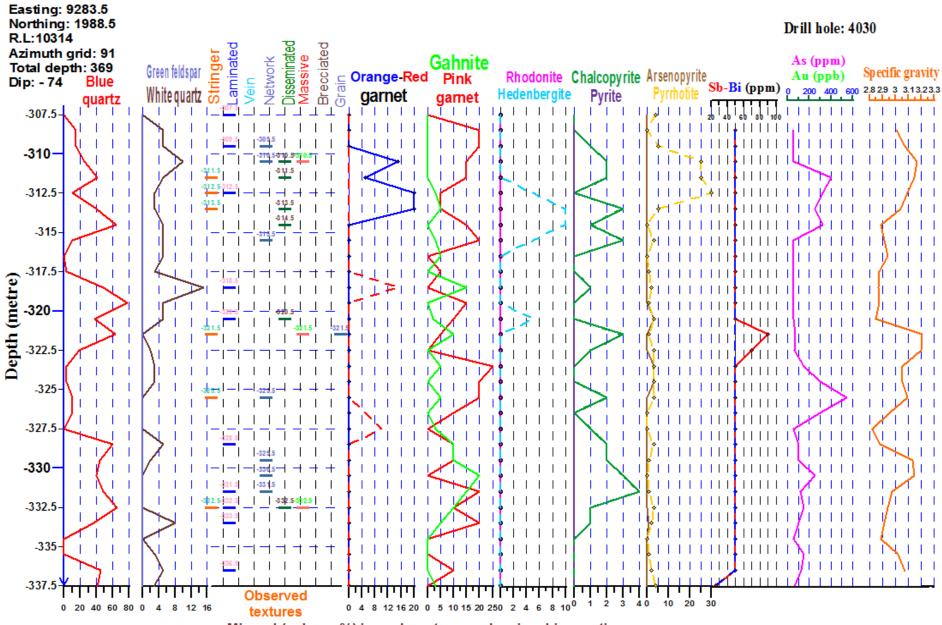
Easting: 9296.2 Northing: 2040 R.L:10313.8





Mineral (volume %) in each metre core by visual inspection

Easting: 9283.5 Northing: 1988.5 Drill hole: 4030 R.L:10314 Average-Maximum Azimuth grid: 91 (×10-5 SI Units) Total depth: 369 Meta Zn%-Sphalerite Pb%-Galena Meta Blue quartz Garnet S-Fe % Ag-Cd (ppm) Magnetic susceptibility Meta - +ode Dolomite Dip: - 74 😃 0 10 20 30 40 0 4 12 0 200 400 60A pelite Pegmatite lode quartzite psammite -307.5 -310 --312.5 -315 -317.5 Depth (metre) -320 -322.5 -325 -327.5 -330 --332.5 -335 -337.5 Galena & sphalerite (volume %) in each metre core 0 20 40 60 80100 20 40 60 80100 20 40 60 80100 20 40 60 80100 20 40 60 80100 20 40 60 80100 20 40 60 80100 by visual inspection Rock (volume %) in each metre core by visual inspection

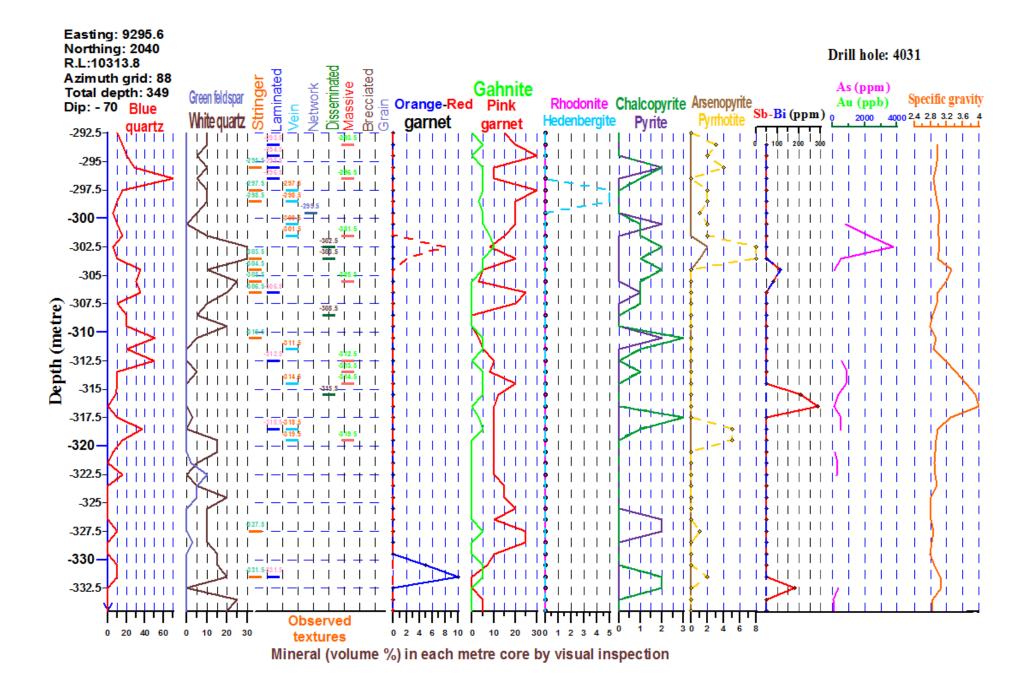


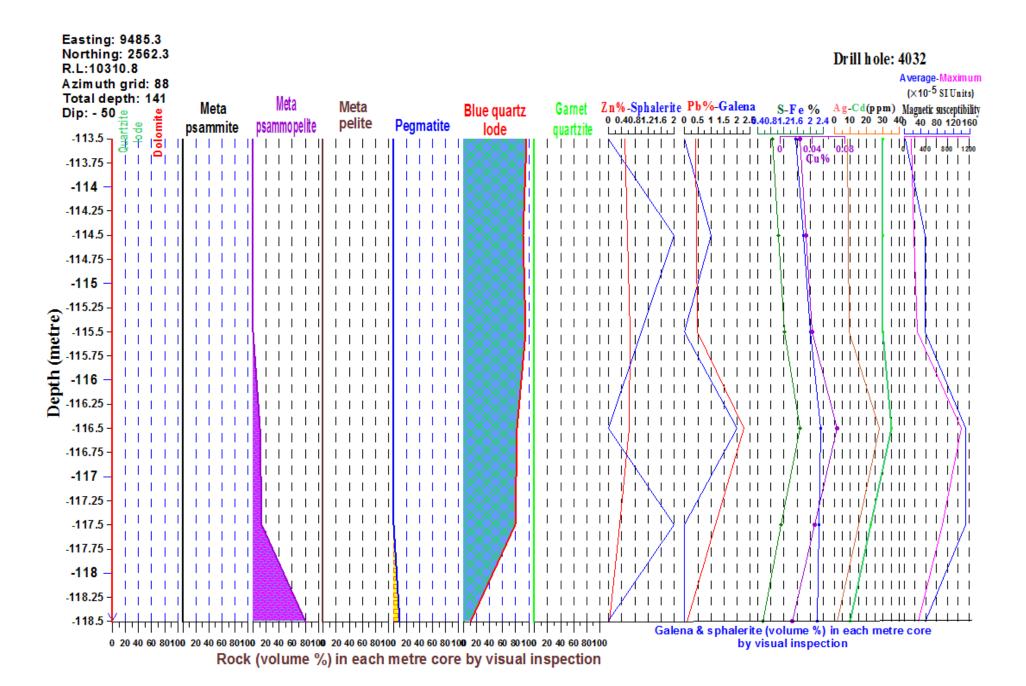
Mineral (volume %) in each metre core by visual inspection

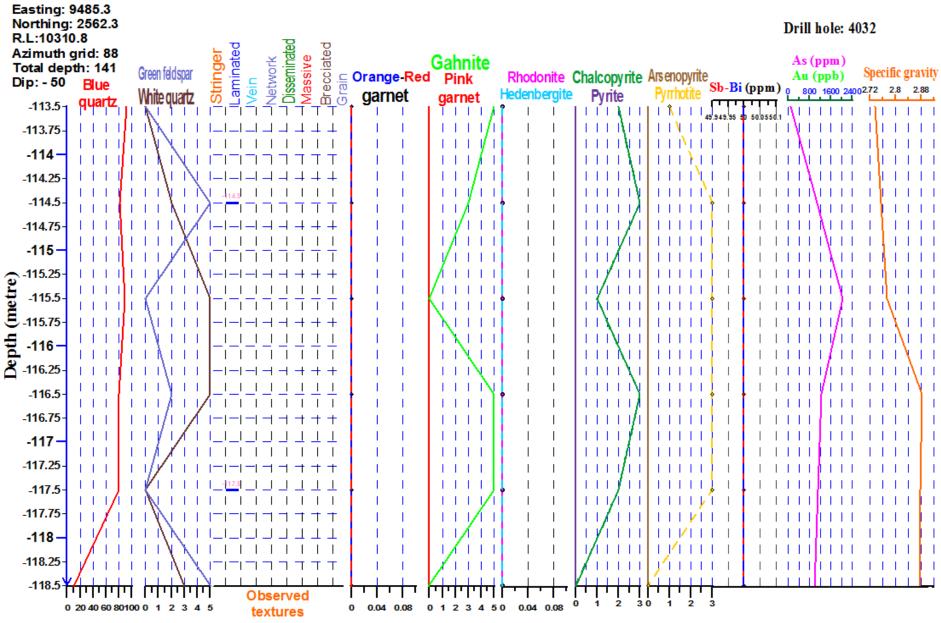
Easting: 9295.6 Northing: 2040 Drill hole: 4031 R.L:10313.8 Average-Maximum Azimuth grid: 88 (×10-5 SI Units) Total depth: 349 Meta S-Fe % Ag-Cd (ppm) Magnetic susceptibility 5 10 15 20 25 0 400 800 0 200 400 600 Meta Zn%-SphaleritePb%-Galena Garnet Meta Dip: - 70 Blue quartz Quartzite Tode Jolomite 0 20 40 60 80 0 10 20 30 400 pelite psammopelite Pegmatite quartzite lode ps ammite -292.5 T I I Iğğ -295 -297.5 -300 --302.5 -305 -307.5 Depth (metre) -310 312.5 -315 -317.5 -320 --322.5 -325 -327.5 -330 --332.5 Galena & sphalerite (volume %) in each metre core

Rock (volume %) in each metre core by visual inspection

by visual inspection





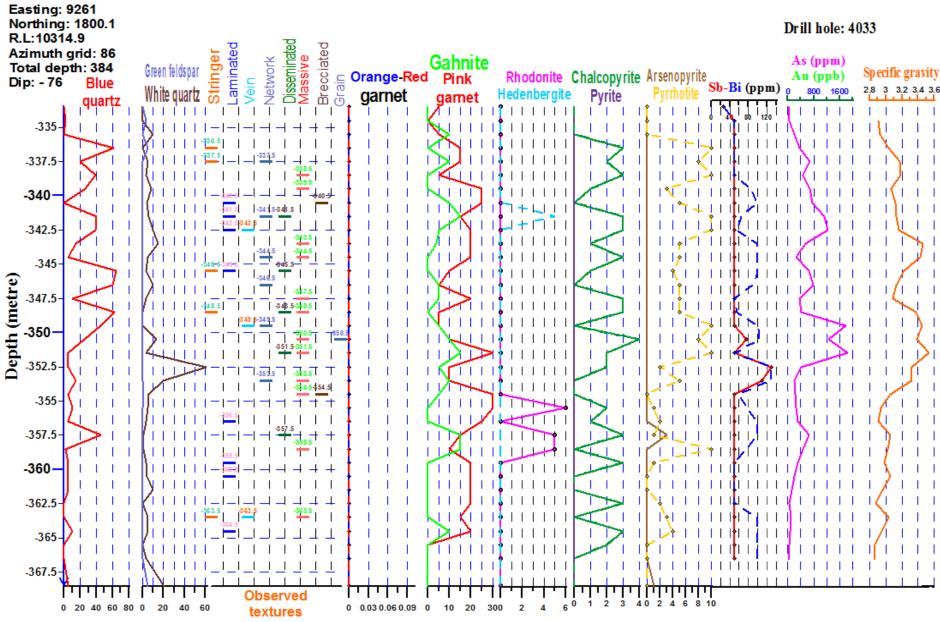


Mineral (volume %) in each metre core by visual inspection

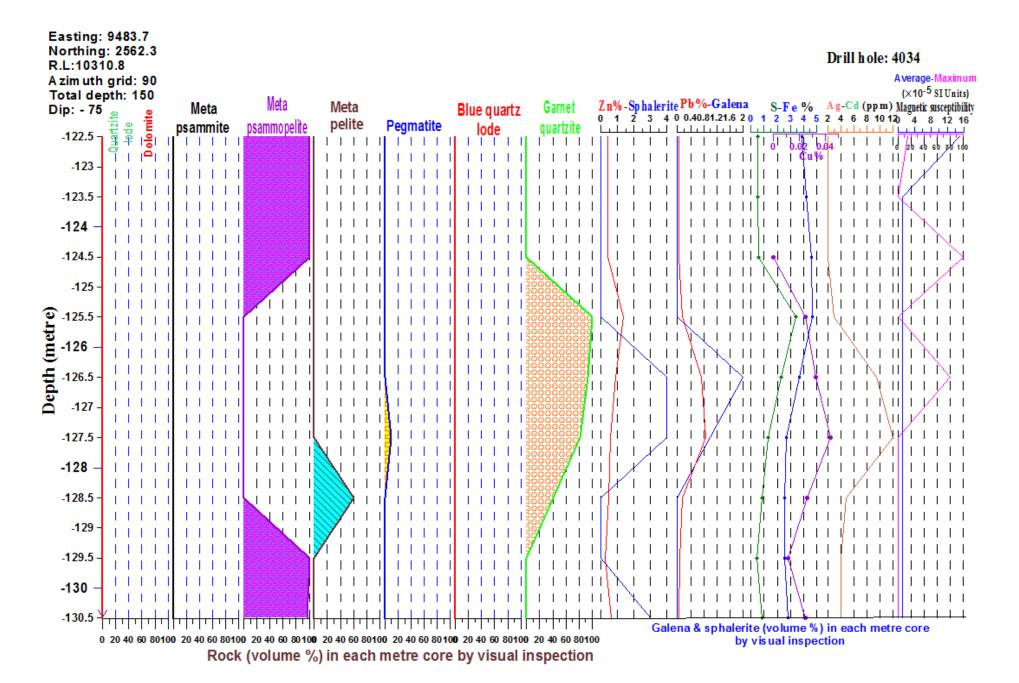
Easting: 9261 Northing: 1800.1 Drill hole: 4033 R.L:10314.9 Average-Maximum Azimuth grid: 86 (×10⁻⁵ SI Units) Total depth: 384 Meta Blue quartz Zn%-Sphalerite Pb%-Galena 0 10 20 30 40 0 10 20 30 0 S-Fe % Ag-Cd (ppm) Magnetic susceptibility Dip: - 76 Meta Garnet Meta -Quartzite
- tode
Dolomite 160 0 100 200 300 8 12 16 0 pelite lode psammopelite Pegmatite ps ammite -335 -337.5 -340 --342.5 -345 Depth (metre) -347.5 -350 -352.5 -355 -357.5 -360 --362.5 -365 -367.5

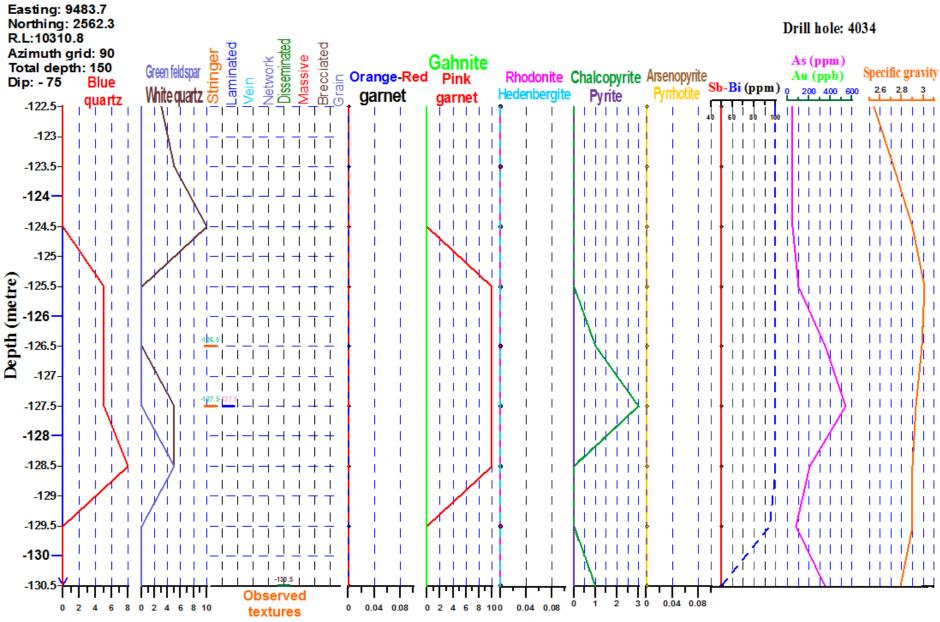
Rock (volume %) in each metre core by visual inspection

Galena & sphalerite (volume %) in each metre core by visual inspection



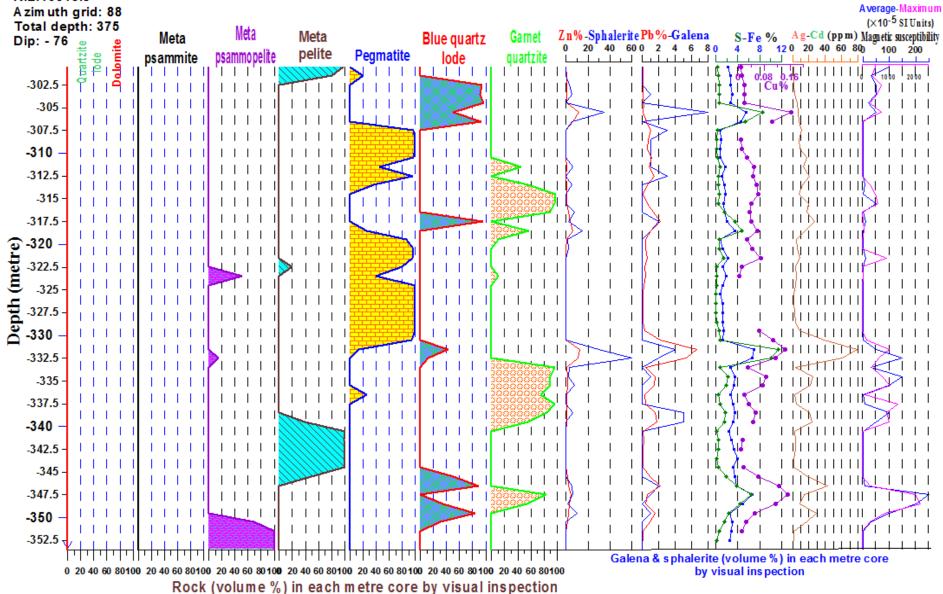
Mineral (volume %) in each metre core by visual inspection

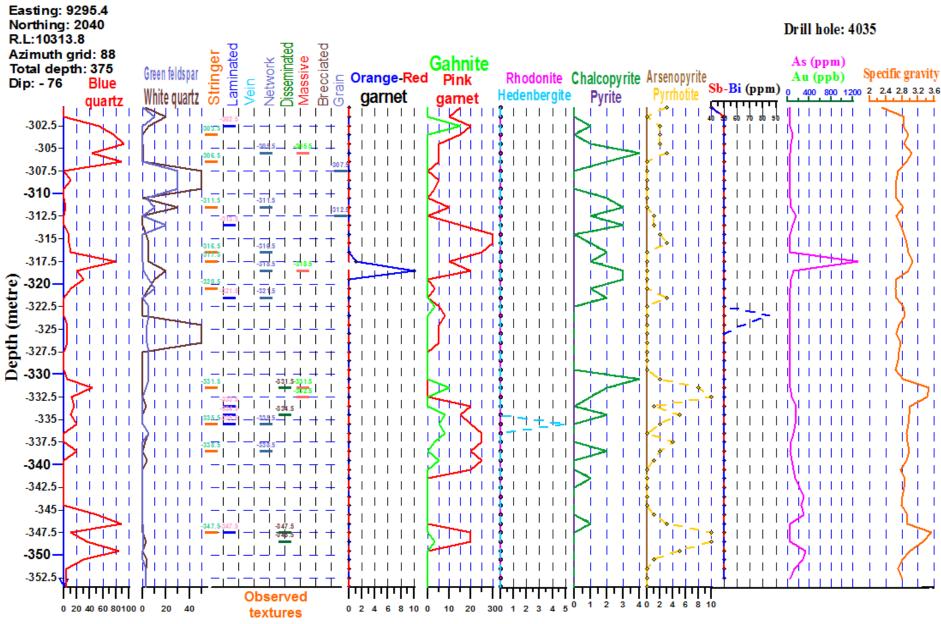




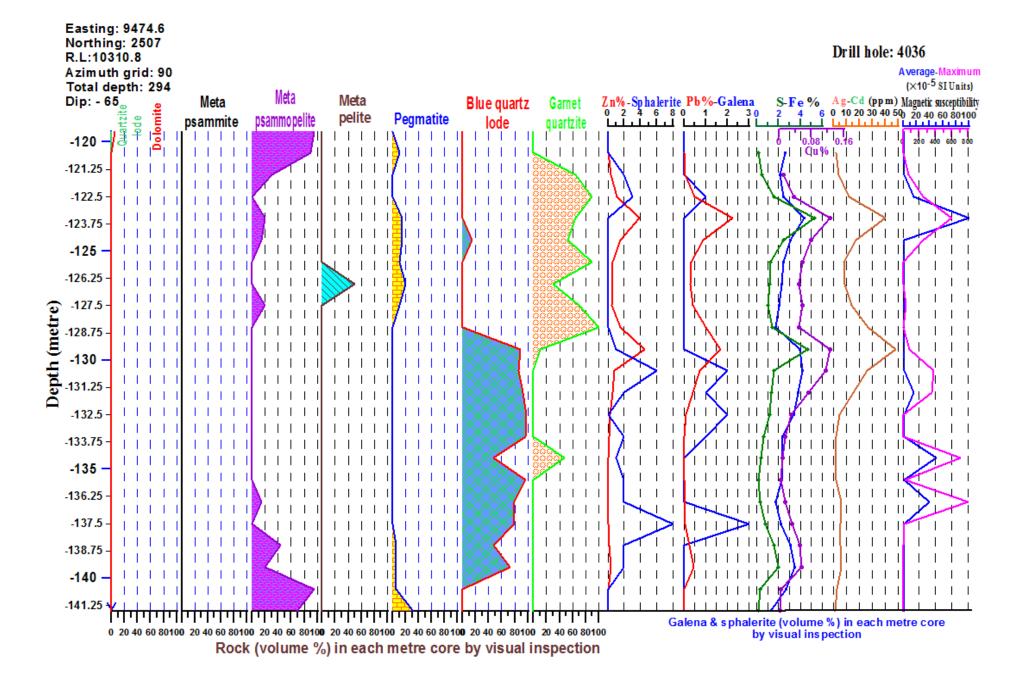
Mineral (volume %) in each metre core by visual inspection

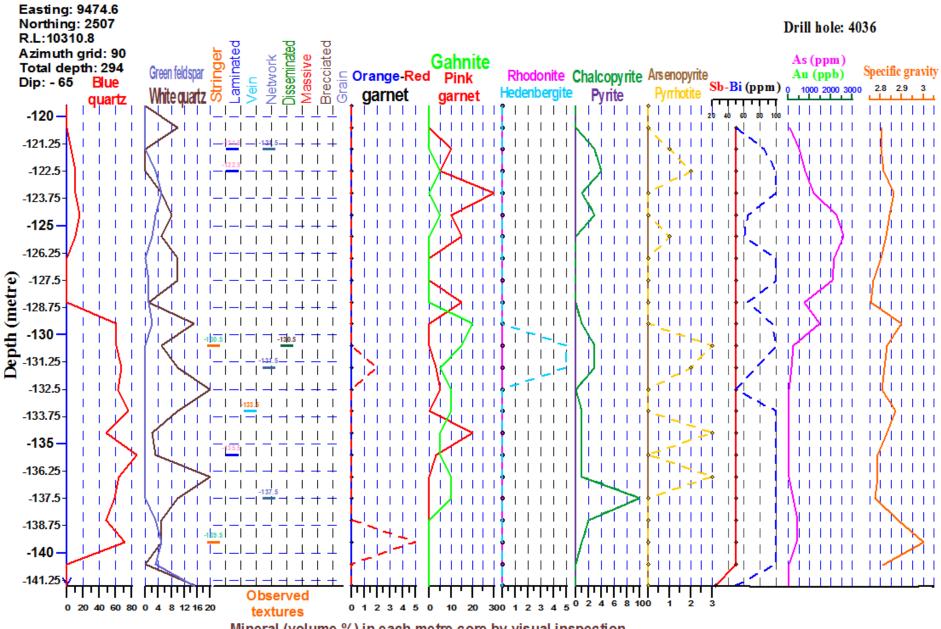
Easting: 9295.4 Northing: 2040 R.L:10313.8 A zim uth grid: 88 Total depth: 375 Meta Meta Garnet Meta Blue quartz Dip: - 76 40 60 0 20 psammopelite pelite Pegmatite psammite lode quartzite





Mineral (volume %) in each metre core by visual inspection

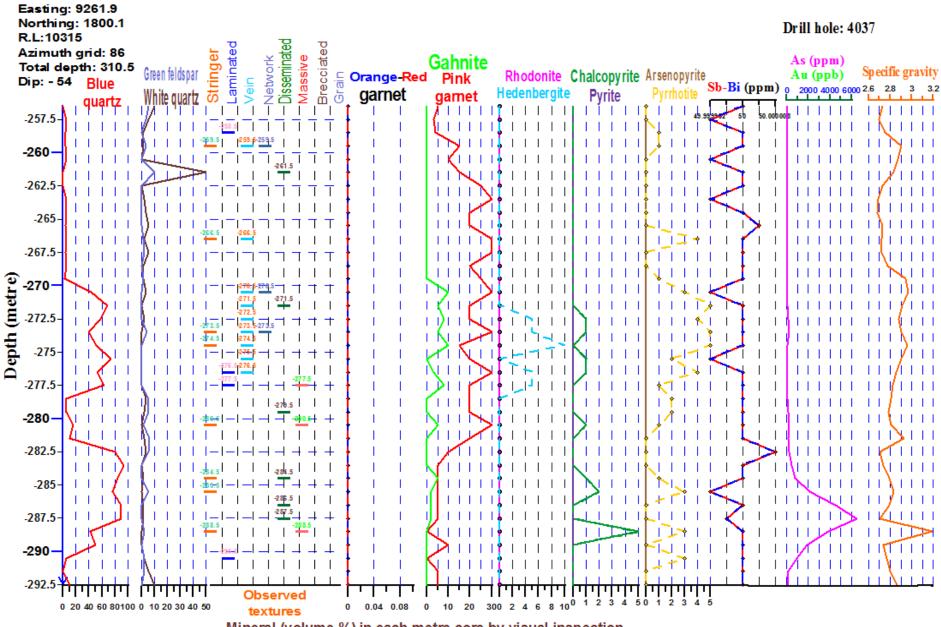




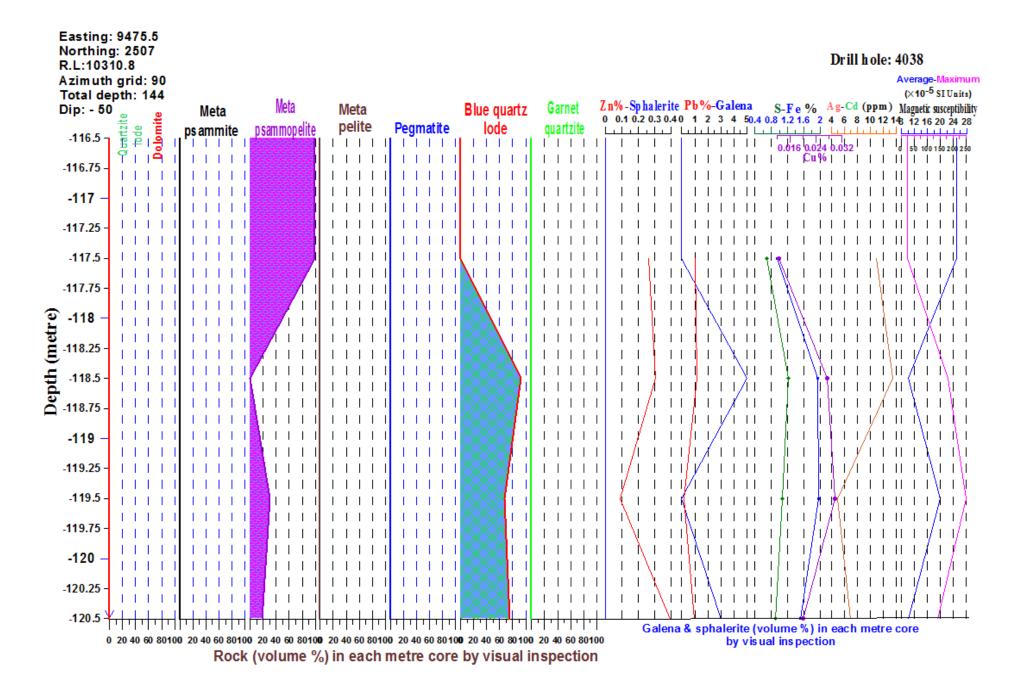
Mineral (volume %) in each metre core by visual inspection

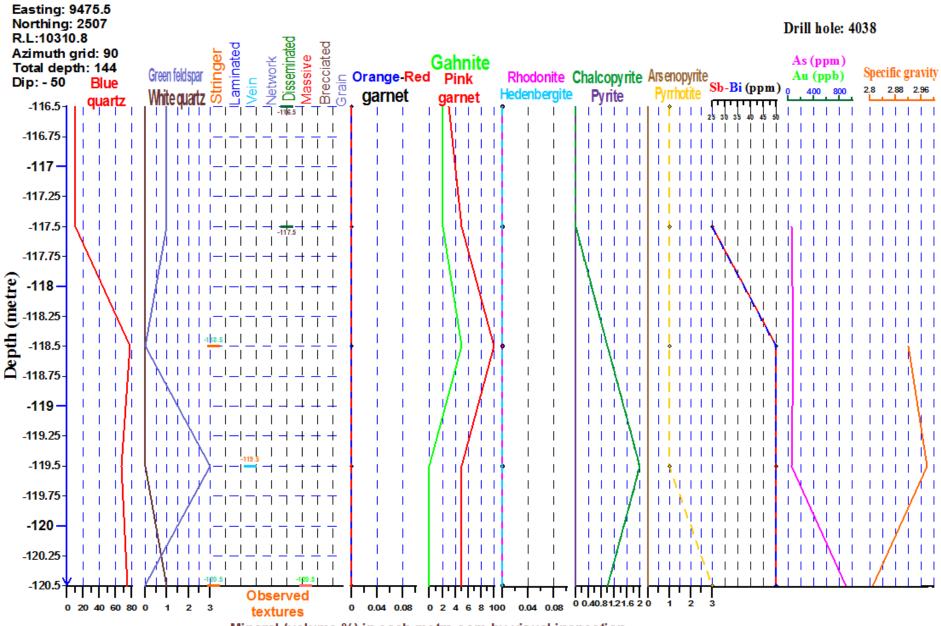
Easting: 9261.9 Northing: 1800.1 Drill hole: 4037 R.L:10315 Average-Maximum (×10⁻⁵ SI Units) Azimuth grid: 86 Total depth: 310.5 Meta Dip: - 54 Meta Ag-Cd (ppm) Magnetic susceptibility 0 100 200 0 20 40 60 80100 Meta Zn%-Sphalerite Pb%-Galena Garnet S-F e % o lomite Blue quartz 0 2 4 6 8 10 0 10 20 30 40 500 2 4 6 8 10 0 Hode p samm opelite pelite **Pegmatite** ps ammite lode quartzite] | | | -260 -262.5 I I I I I-265 _ | | | I I I I I I-267.5 1.1 Depth (metre) -270 -272.5 -275 -277.5 111 -280 -282.5 -285 -287.5 -290 -292.5Galena & sphalerite (volume %) in each metre core by visual inspection

Rock (volume %) in each metre core by visual inspection



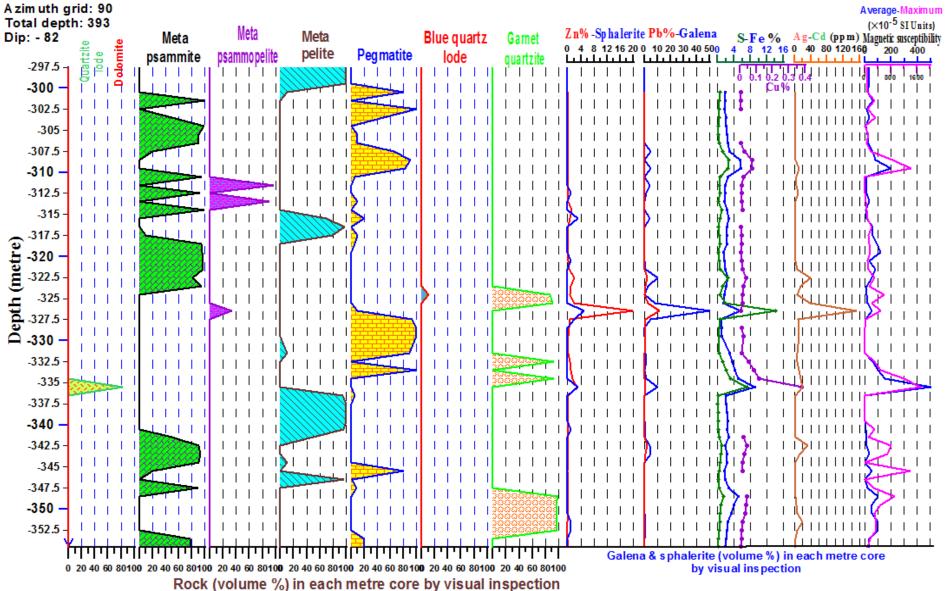
Mineral (volume %) in each metre core by visual inspection

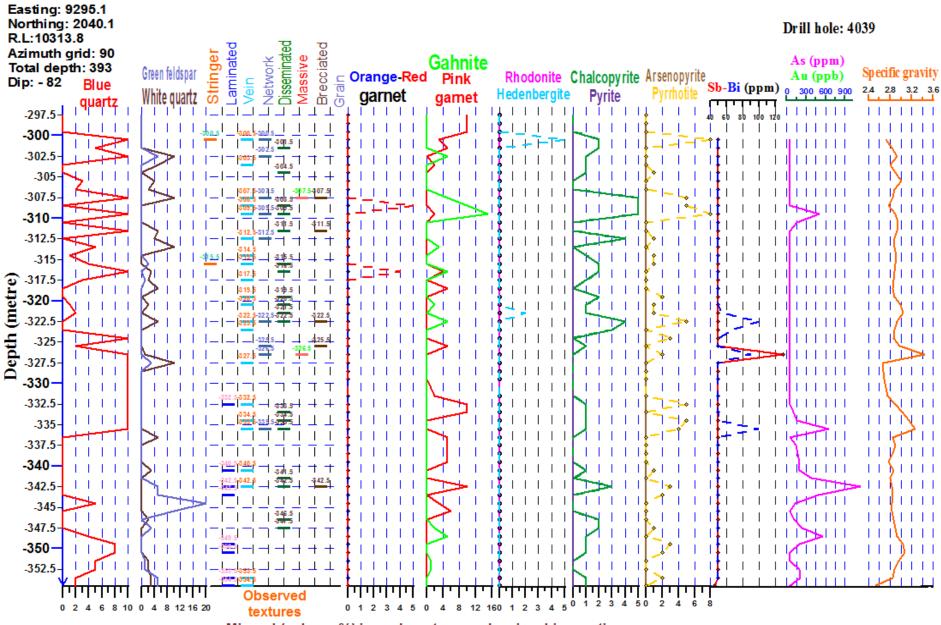




Mineral (volume %) in each metre core by visual inspection

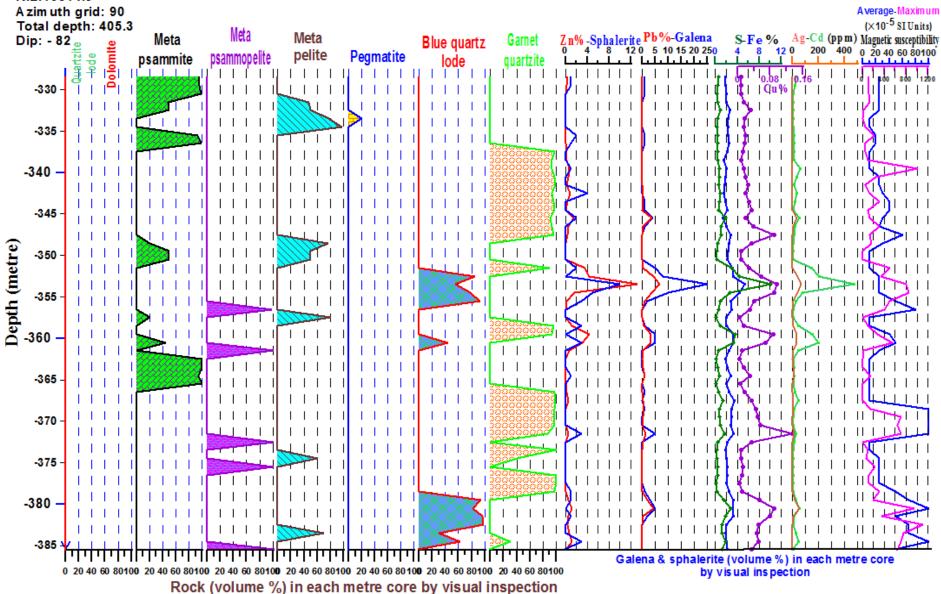
Easting: 9295.1 Northing: 2040.1 R.L:10313.8

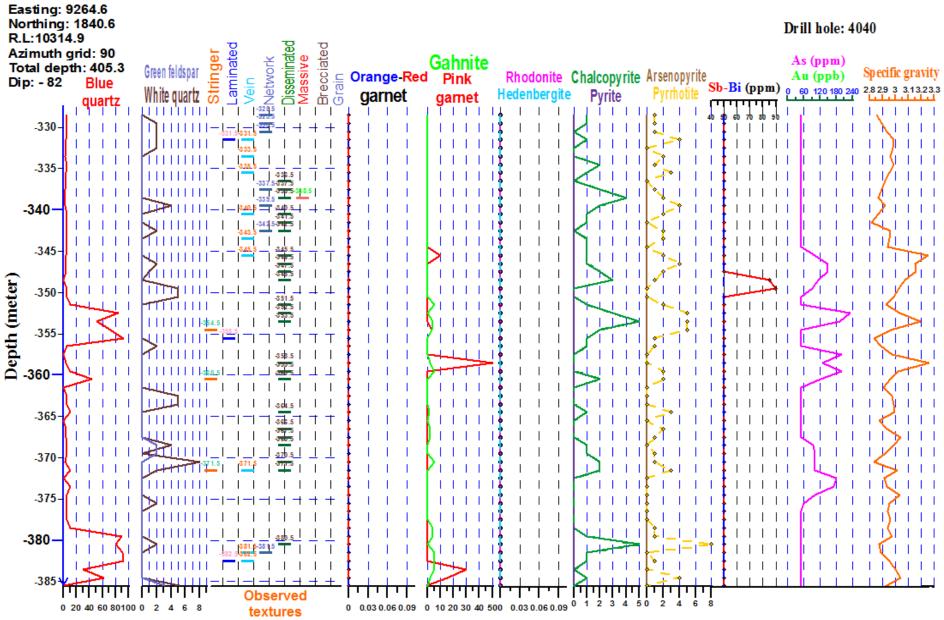




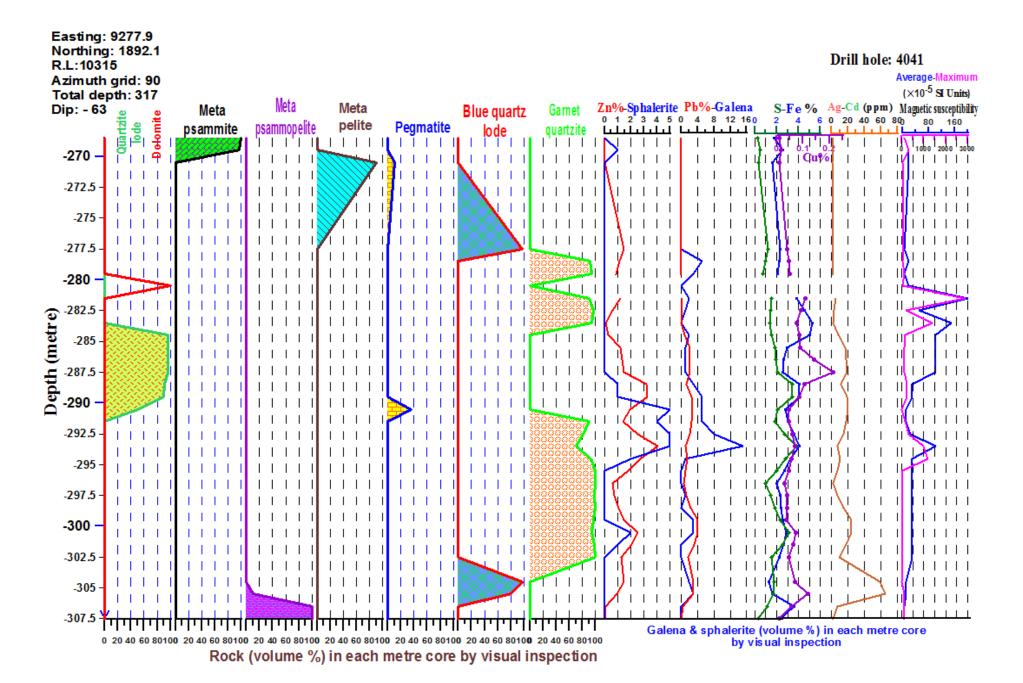
Mineral (volume %) in each metre core by visual inspection

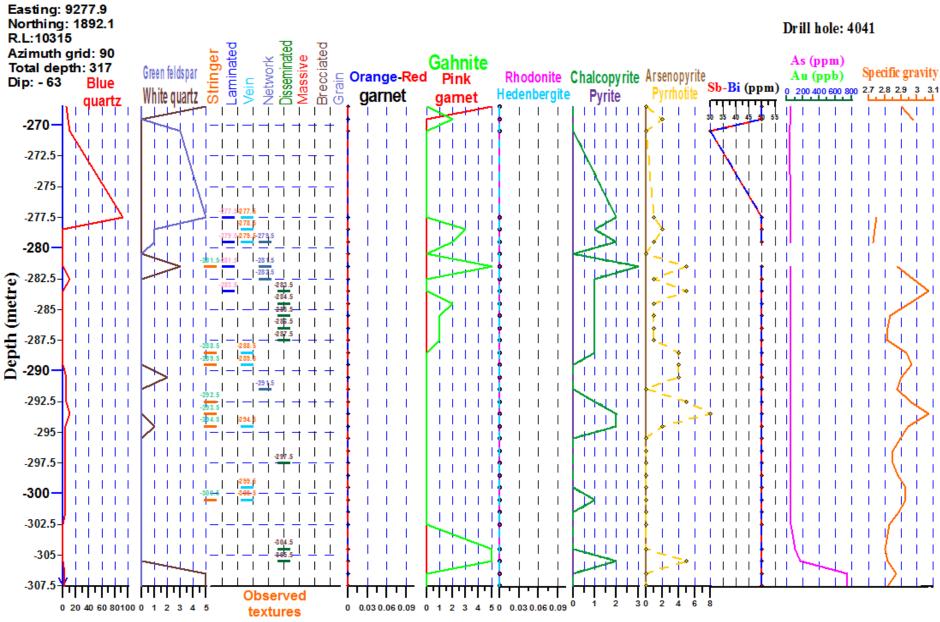
Easting: 9264.6 Northing: 1840.6 R.L:10314.9





Mineral (volume %) in each metre core by visual inspection



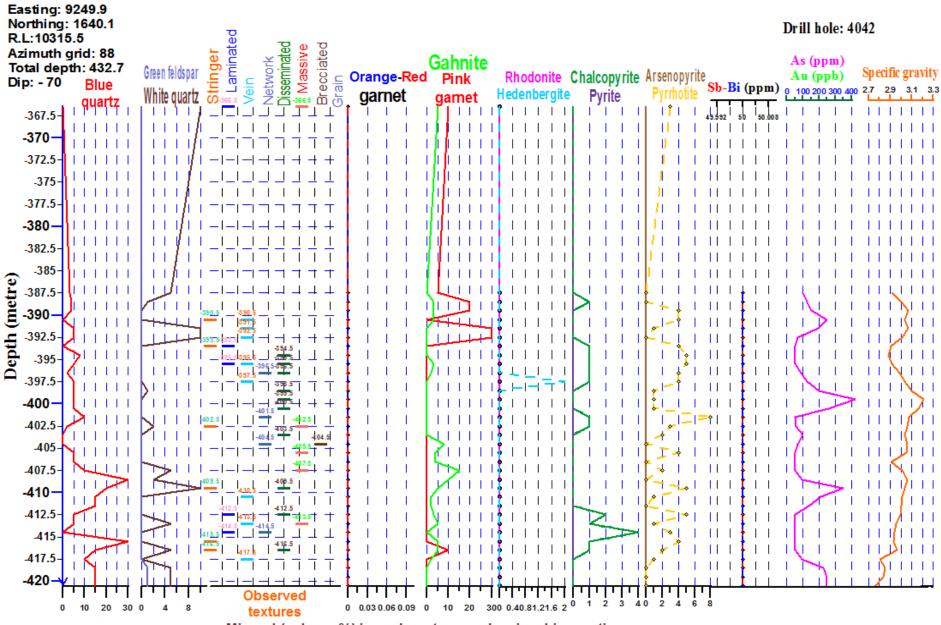


Mineral (volume %) in each metre core by visual inspection

Easting: 9249.9 Northing: 1640.1 Drill hole: 4042 R.L:10315.5 Average-Maximum Azimuth grid: 88 (×10⁻⁵ SI Units) Total depth: 432.7 Meta Zn%-Sphalerite Pb%-Galena Meta Blue quartz S-Fe % Ag-Cd (ppm) Magnetic susceptibility Garnet Meta Dip: - 70 0 10 20 30 40 0 10 20 0 10020030040Д p samm opelite pelite Pegmatite lode ps ammite quartzite -370 --372.5 -375 -377.5 -380 --382.5 -385 Depth (metre) -387.5 -390 -392.5 -395 -397.5 -400 --402.5 -405 -407.5 -410 --412.5 -415 -417.5 -420 -Galena & sphalerite (volume %) in each metre core

Rock (volume %) in each metre core by visual inspection

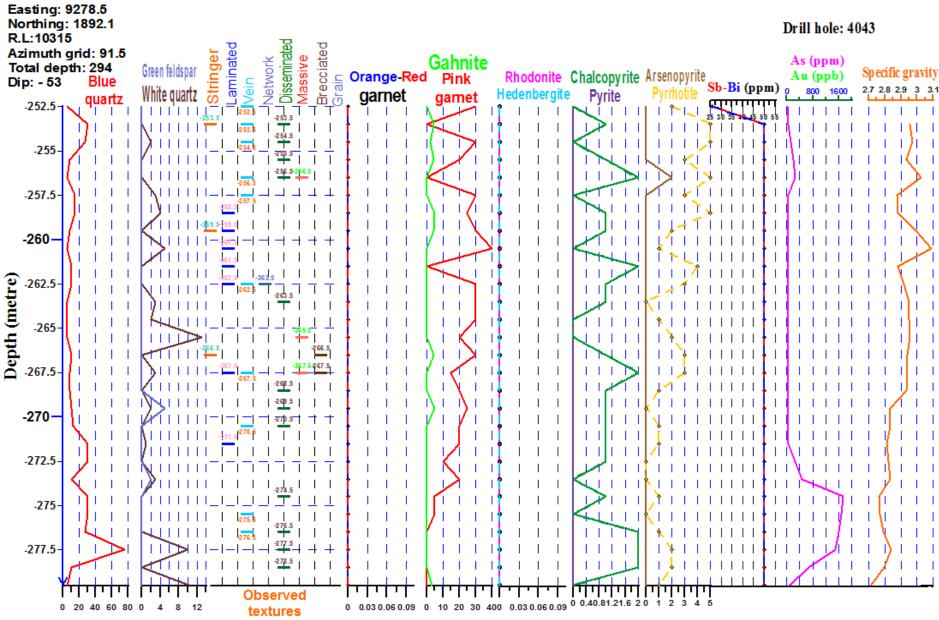
by visual inspection



Mineral (volume %) in each metre core by visual inspection

Easting: 9278.5 Northing: 1892.1 Drill hole: 4043 R.L:10315 Azimuth grid: 91.5 Average-Maximum Total depth: 294 (×10-5 SI Units) Meta Dip: - 53 Meta Meta Blue quartz Garnet Zn%-Sphalerite Pb%-Galena S-Fe % Ag-Cd (ppm) Magnetic susceptibility Ogartzite
Tode
Dolomite 5 0 10 20 30 40 50 40 80 120 160 6 8 10 0 pelite psammopelite Pegmatite lode psammite quartzite -252.5 --255 -257.5 -260 -Depth (metre) -262.5 -265 -267.5 --270 --272.5 I + I + I-275 -277.5 -

Rock (volume %) in each metre core by visual inspection

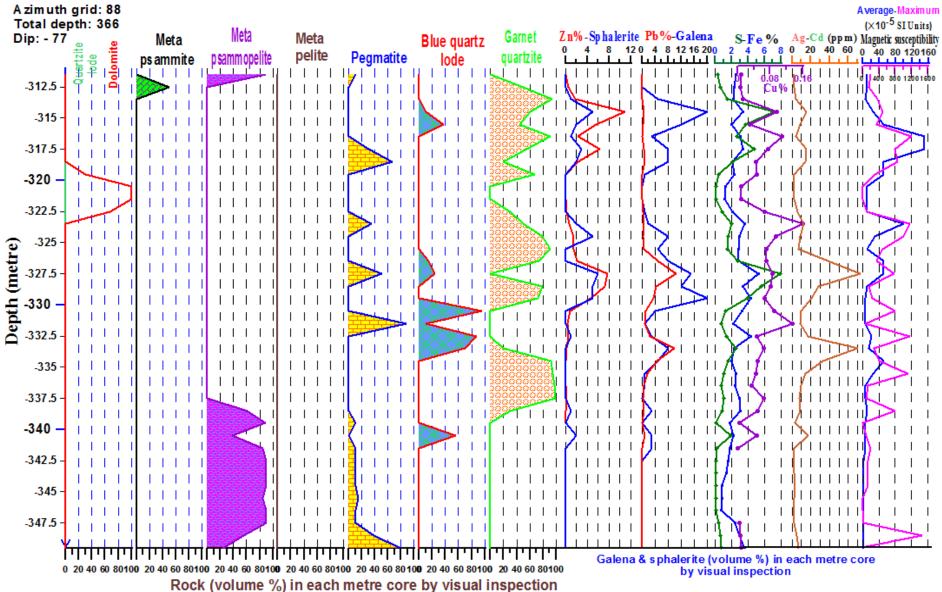


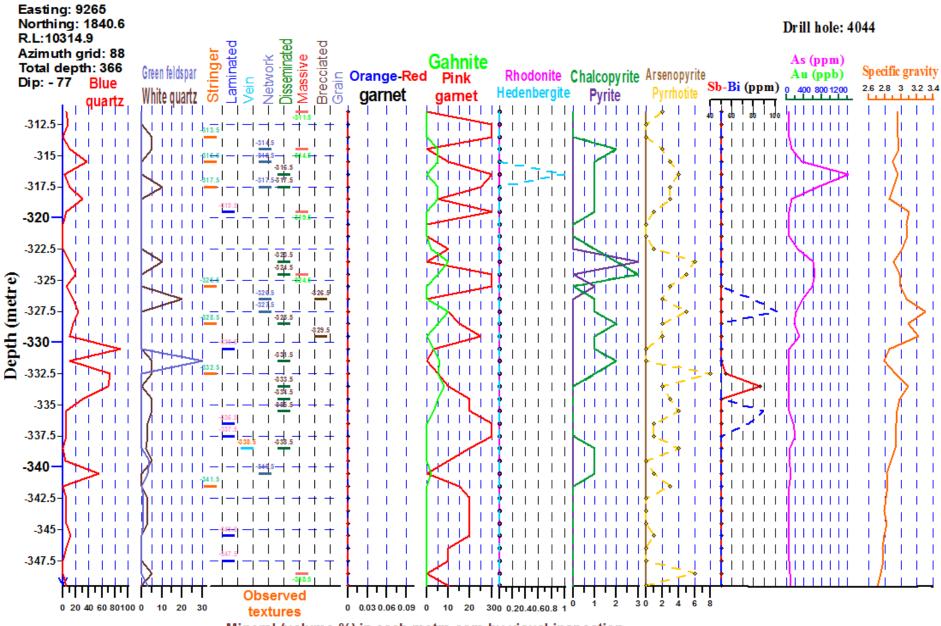
Mineral (volume %) in each metre core by visual inspection

Easting: 9265 Northing: 1840.6 R.L:10314.9 Azimuth grid: 88

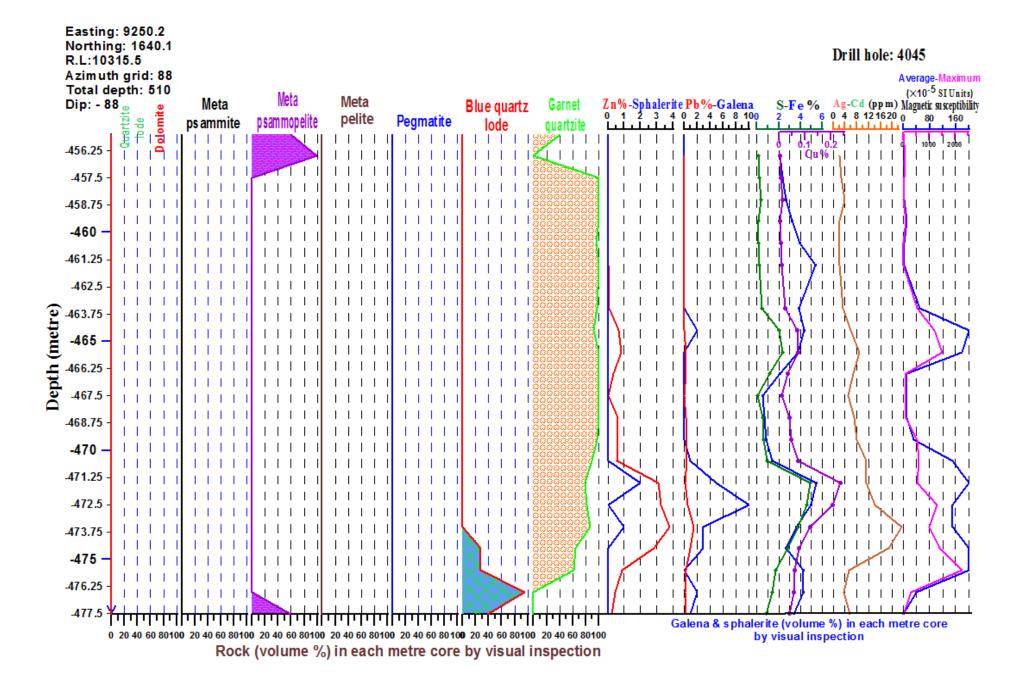
Drill hole: 4044

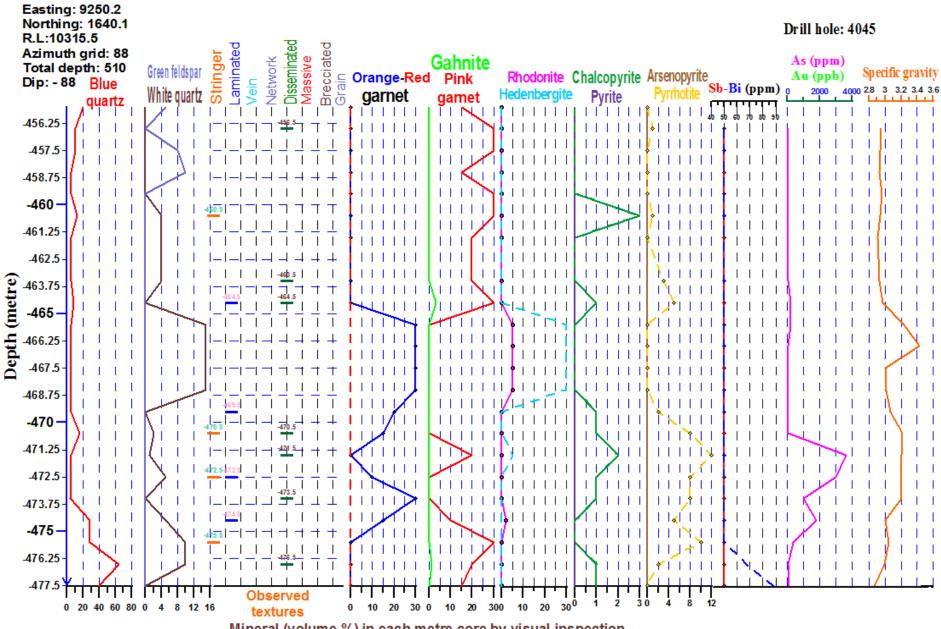
Average





Mineral (volume %) in each metre core by visual inspection



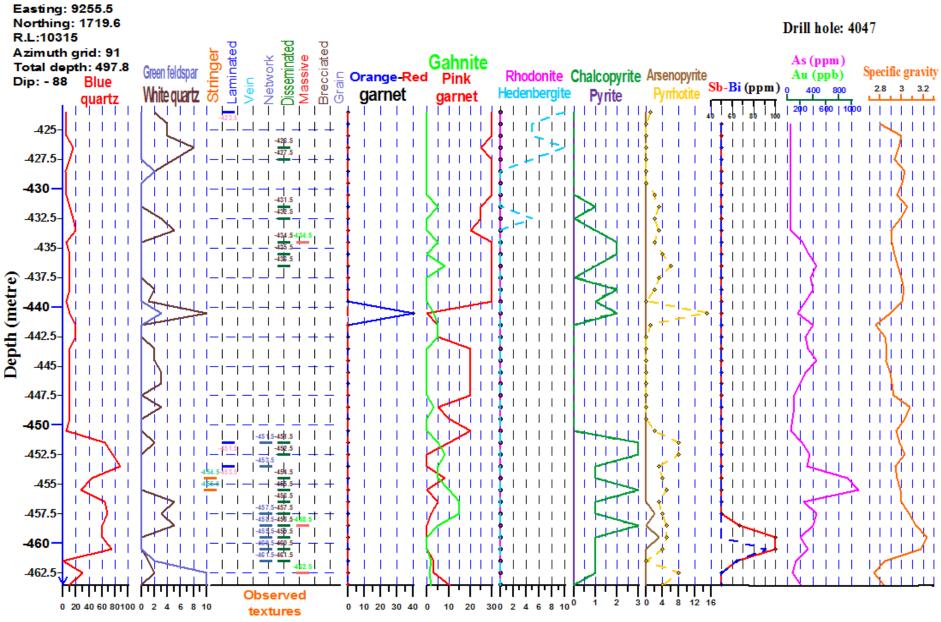


Mineral (volume %) in each metre core by visual inspection

Easting: 9255.5 Northing: 1719.6 Drill hole: 4047 R.L:10315 Average-Maximum Azimuth grid: 91 (×10⁻⁵ SI Units) Total depth: 497.8 Meta Dip: - 88 Blue quartz Zn%-Sphalerite Pb%-Galena Meta Garnet S-Fe% Ag-Cd (ppm) Magnetic susceptibility Meta - tode Dolomite 12 16 0 10 20 300 -Quartzite lode pelite Pegmatite quartzite ps ammite -425 -427.5 -430 --432.5 -435 -437.5 Depth (metre) -440 -442.5 1 1 1 1 -445 -447.5 -450 -452.5 -455 457.5 -460 -462.5 Galena & sphalerite (volume %) in each metre core

Rock (volume %) in each metre core by visual inspection

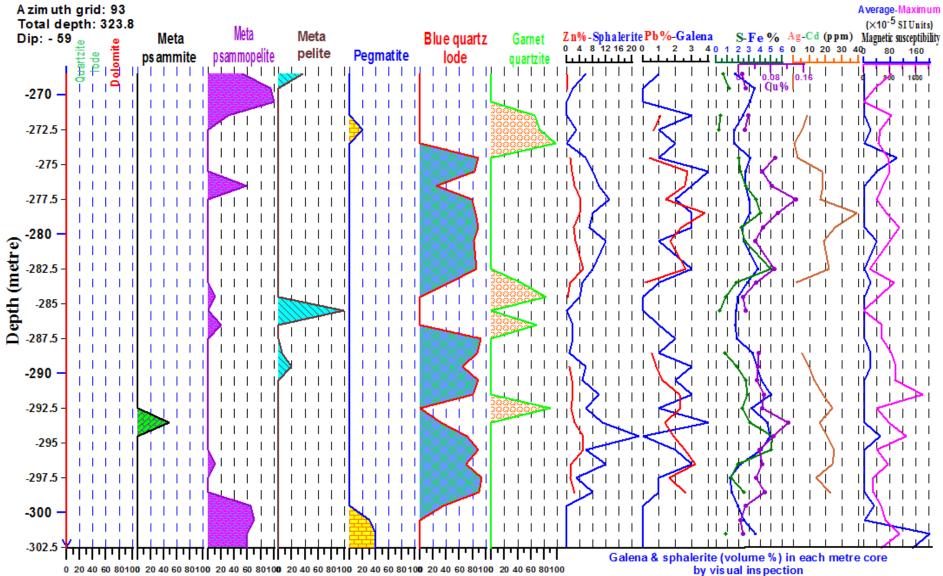
by visual inspection



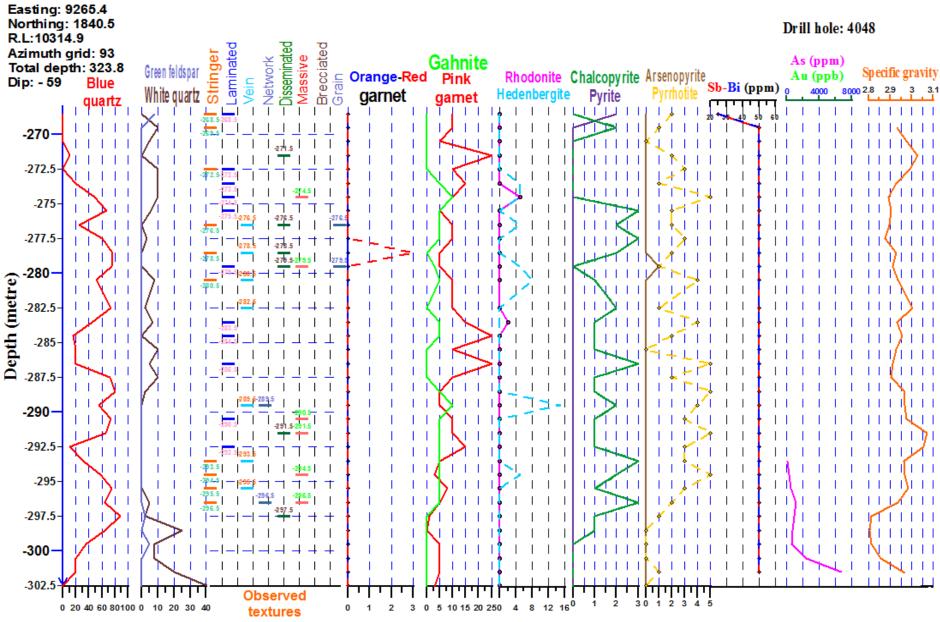
Mineral (volume %) in each metre core by visual inspection

Easting: 9265.4 Northing: 1840.5 R.L:10314.9 A zim uth grid: 93 Total depth: 323.8 Meta ps ammite





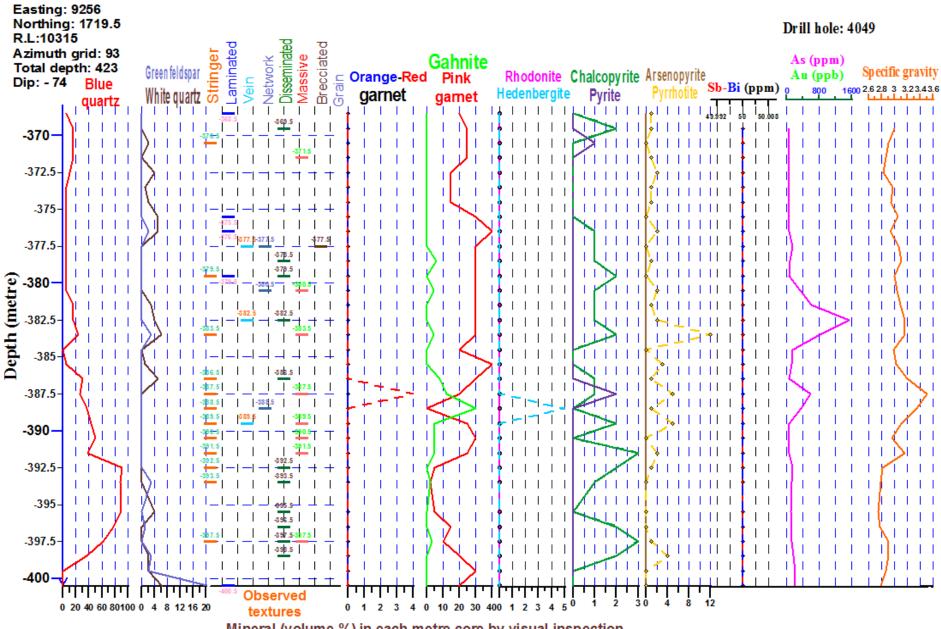
Rock (volume %) in each metre core by visual inspection



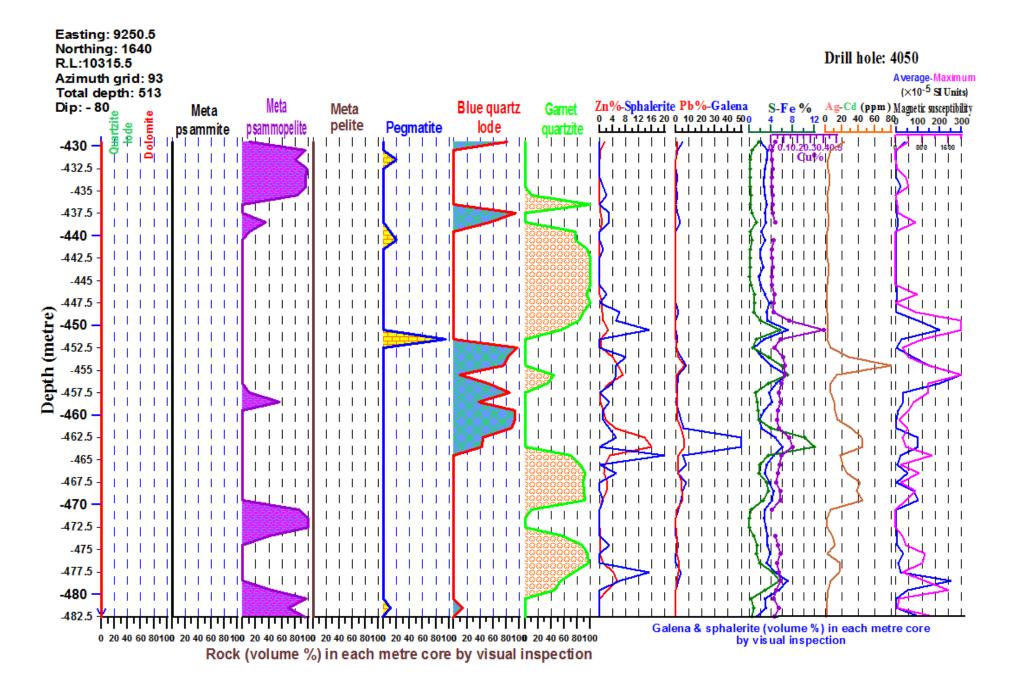
Mineral (volume %) in each metre core by visual inspection

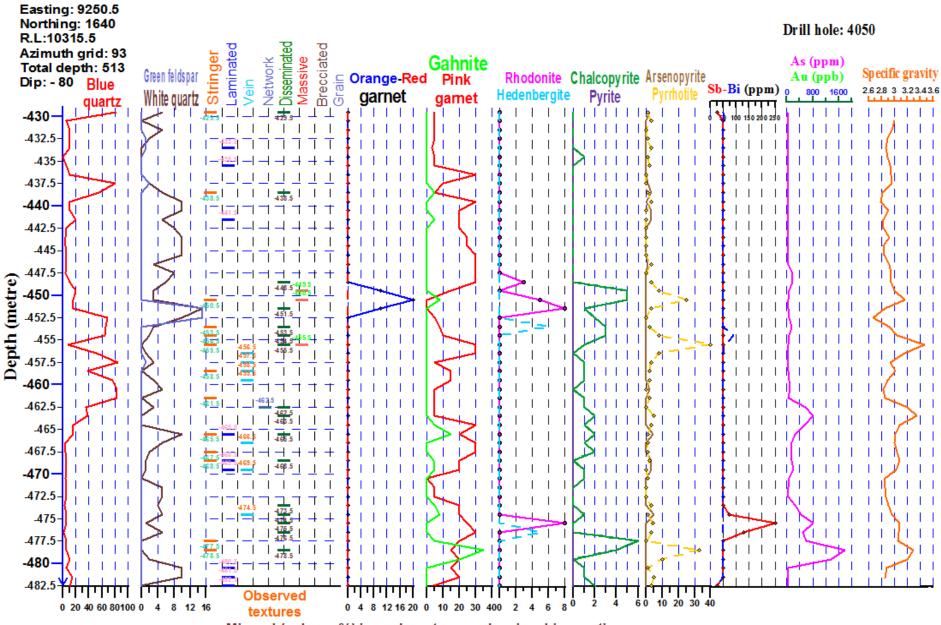
Easting: 9256 Northing: 1719.5 Drill hole: 4049 R.L:10315 Azimuth grid: 93 Average-Maximum (×10-5 SI Units) Total depth: 423 Meta S-Fe % Ag-Cd (ppm) Magnetic susceptibility 2 4 6 8 0 10 20 30 40 50 20 40 60 80100 Garnet Zn%-SphaleritePb%-Galena Dip: - 74 Meta Blue quartz Meta Quartzite
Tode
Dolomite 8 0 10 20 30 ammite psammopelite pelite quartzite Pegmatite lode ps ammite -370 -372.5 I + I + I-375 -I + I + I-377.5 Depth (metre) -382.5 -387.5 -390 -I - I - I-392.5 --395 -397.5 -400 -

Rock (volume %) in each metre core by visual inspection



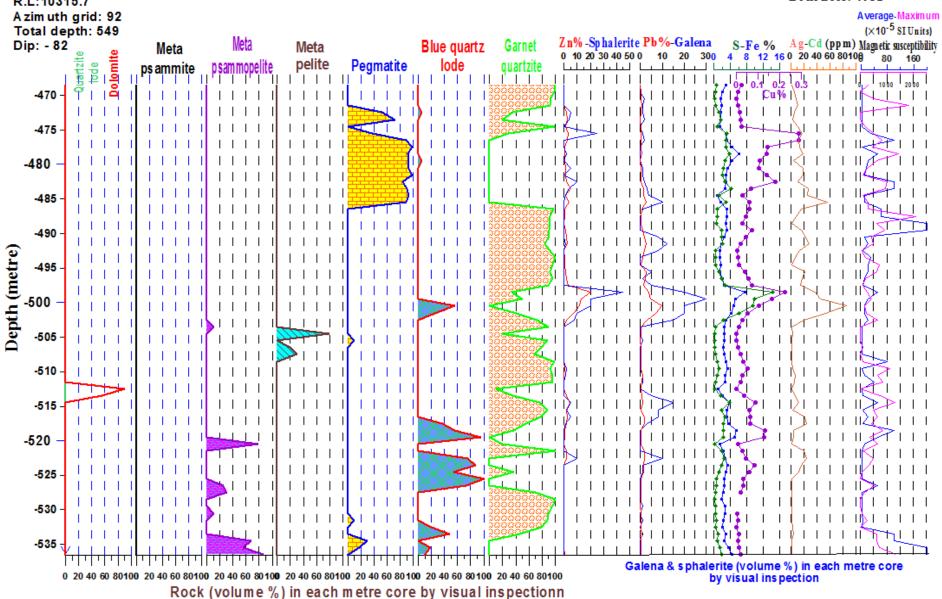
Mineral (volume %) in each metre core by visual inspection

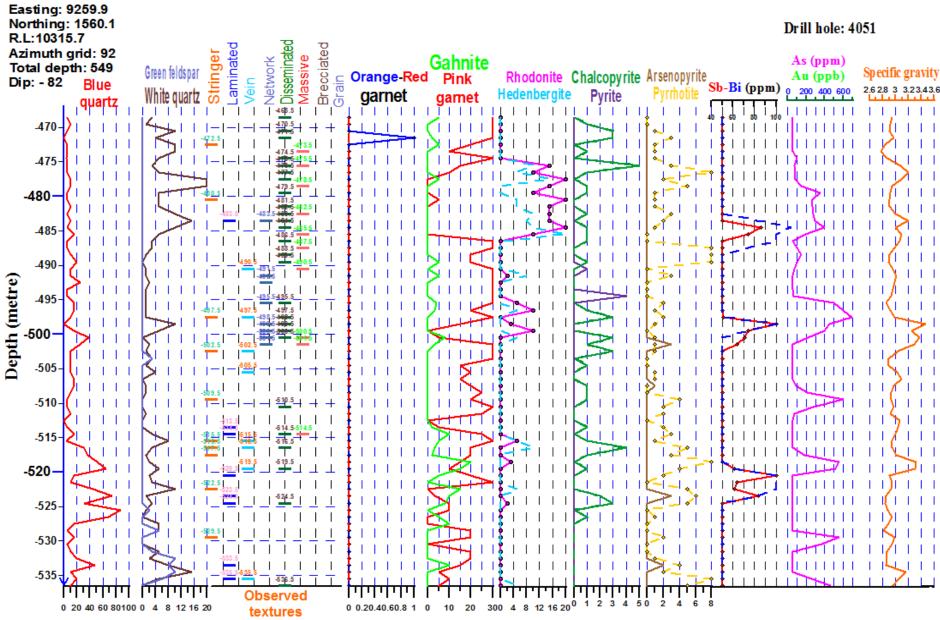




Mineral (volume %) in each metre core by visual inspection

Easting: 9259.9 Northing: 1560.1 R.L:10315.7 Azim uth grid: 92

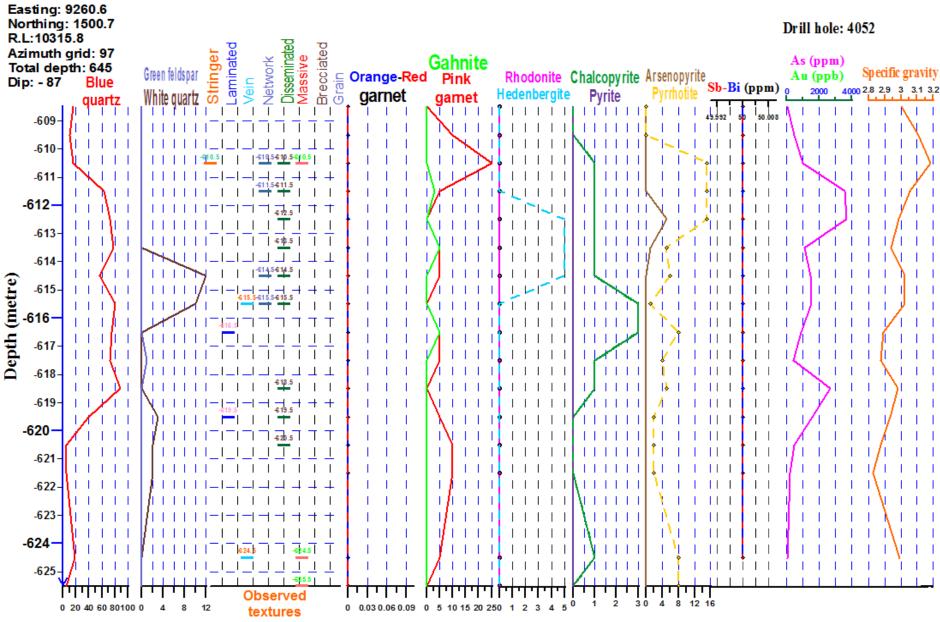




Mineral (volume %) in each metre core by visual inspection

Easting: 9260.6 Northing: 1500.7 Drill hole: 4052 R.L:10315.8 Average-Maximum Azimuth grid: 97 (×10⁻⁵ SI Units) Total depth: 645 Zn%-SphaleritePb%-Galena Meta Blue quartz Ag-Cd (ppm) Magnetic susceptibility Meta Dip: -87 Garnet Meta -Quartzite -- tode Dolomite 6 0 20 psammopelite pelite lode Pegmatite ps ammite '| | |<mark>'</mark>| | -609 J Qu% -610 -611 -612 -613 -614 Depth (metre) 1 1 -619 1 1 -620 -621 -622 -623 -624 -625

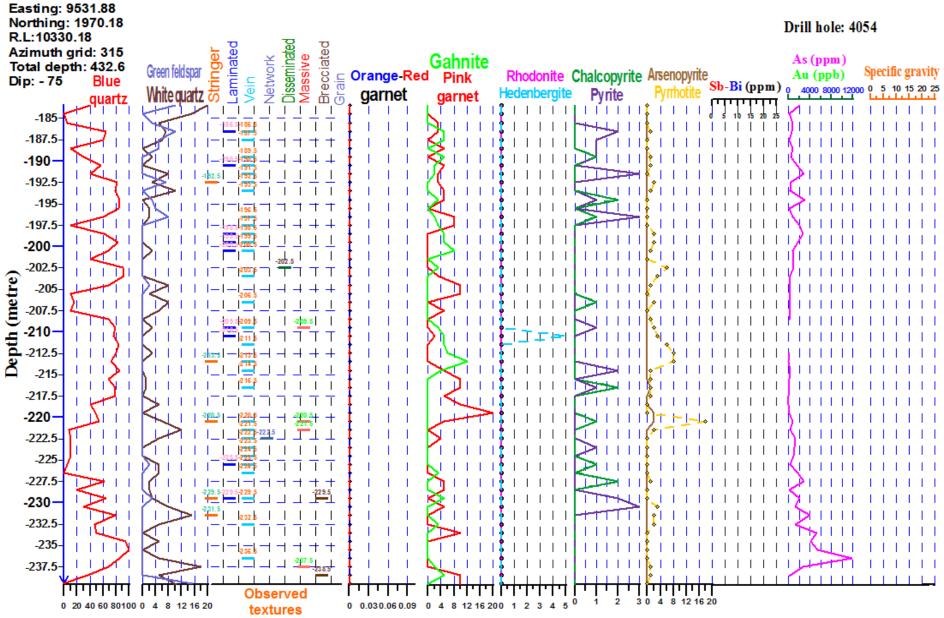
Rock (volume %) in each metre core by visual inspection



Mineral (volume %) in each metre core by visual inspection

Easting: 9531.88 Northing: 1970.18 Drill hole: 4054 R.L:10330.18 Average-Maximum (×10⁻⁵ SI Units) Azimuth grid: 315 Total depth: 432.6 Meta Meta Zn%-Sphalerite Pb%-Galena Blue quartz Ag-Cd (ppm) Magnetic susceptibility Dip: - 75 Meta — 十5de —**Dołomite** Garnet 20 40 60 80) 20 40 60 80100 4 8 12 16 0 2 4 6 8 100 pelite psammopelite Pegmatite lode ps ammite quartzite -185 -187.5 -190 --192.5 -195 -197.5 -200 -202.5 Depth (metre) -205 -207.5 -210 -212.5 -215 -217.5 -220 -222.5-225 -227.5 -230 --232.5 -235 -237.5

Rock (volume %) in each metre core by visual inspection

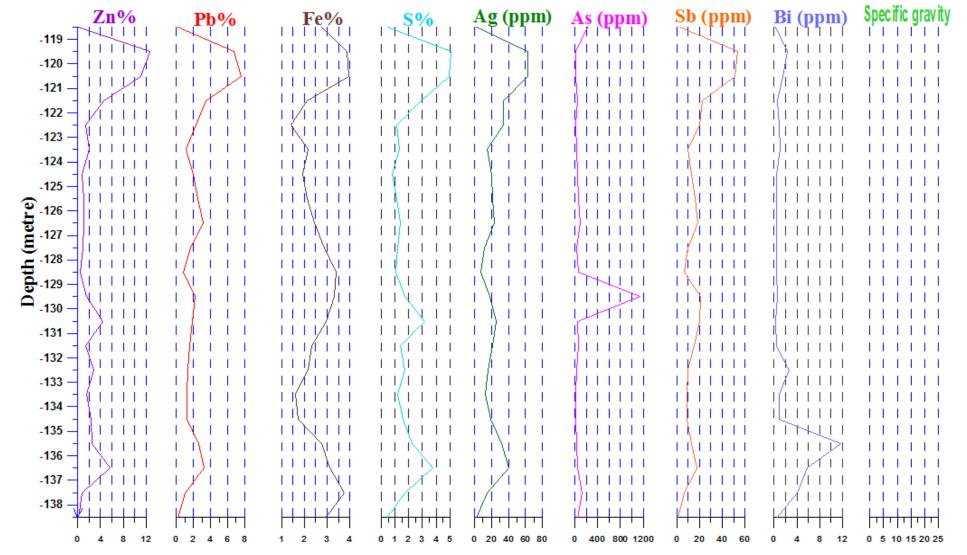


Mineral (volume %) in each metre core by visual inspection

Easting: 9536.474 Northing: 2000.853 R.L:10126.78 A zimuth grid: 260 Total depth: 204.4

Drill hole: 4058



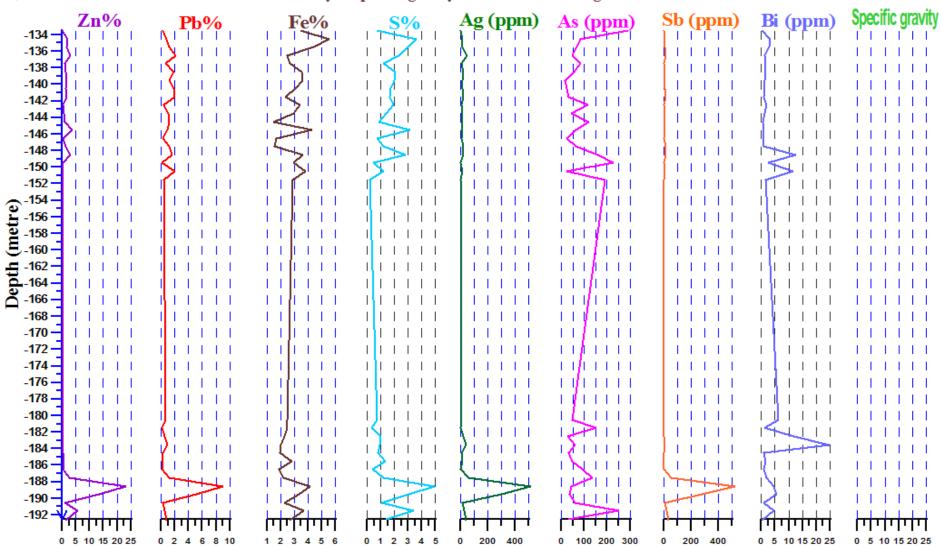


Easting: 9536.779 Northing: 2000.223 R.L:10126.8

Azimuth grid: 270 Total depth: 221.5

Dip: -48

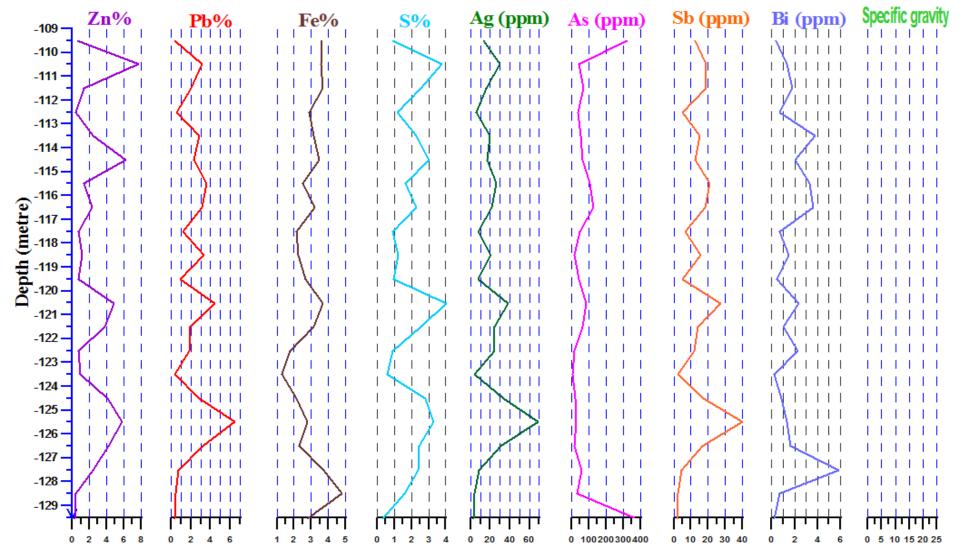
Assay & specific gravity in each metre underground drill core



Easting: 9536.474 Northing: 2000.853 R.L:10126.78 Azimuth grid: 280

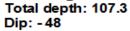
Drill hole: 4060

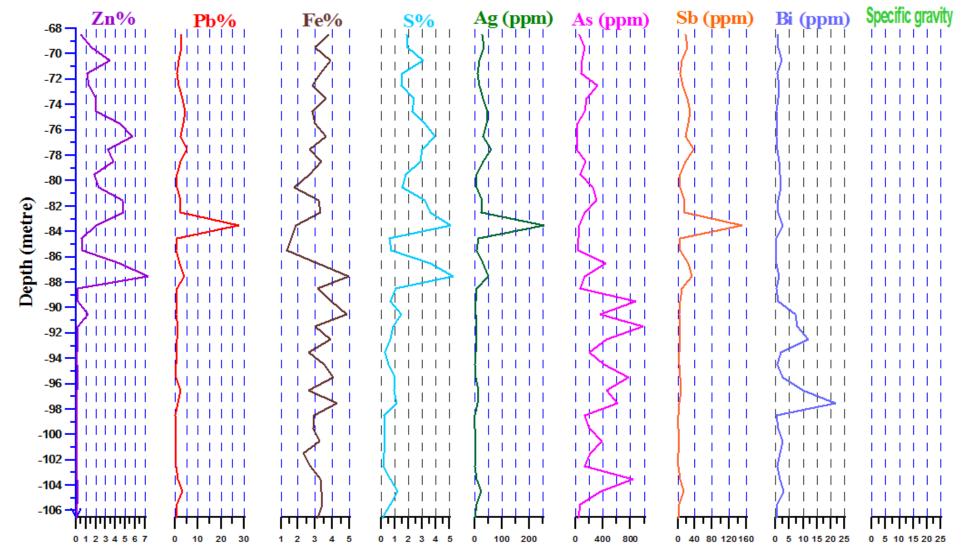
Total depth: 202.2 Dip: -49



Easting: 9524.85 Northing: 2066.191 R.L:10117.32 Azimuth grid: 262

Drill hole: 4061

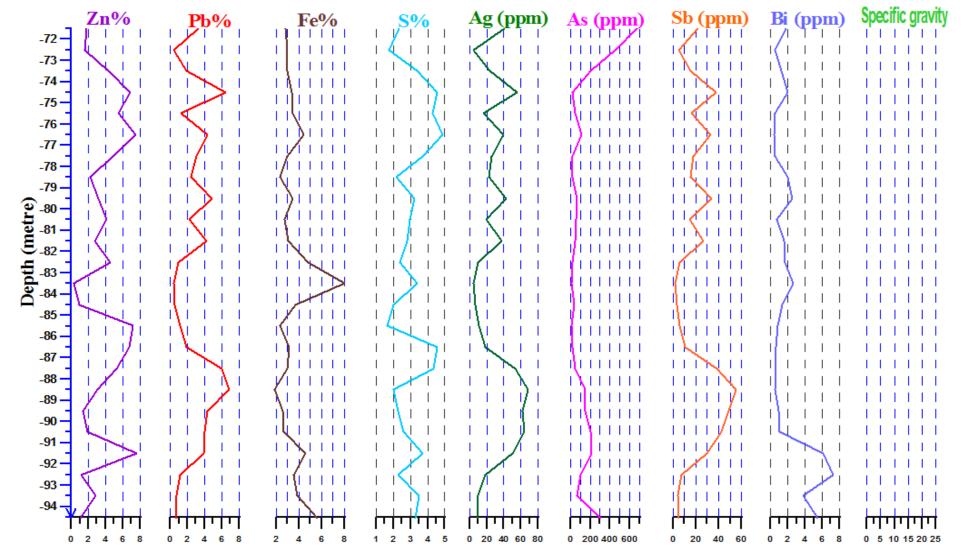




Easting: 9524.85 Northing: 2066.19 R.L:10117.32 Azimuth grid: 262 Total depth: 158.3

Drill hole: 4062

Dip: -53

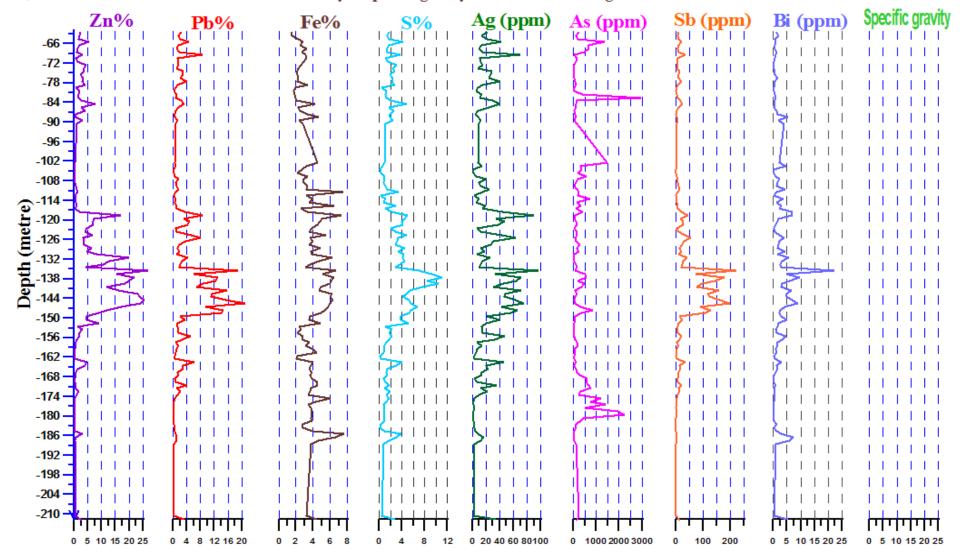


Easting: 9524.85 Northing: 2065.99 R.L:10117.32 Azimuth grid: 255

Total depth: 211.8

Drill hole: 4063

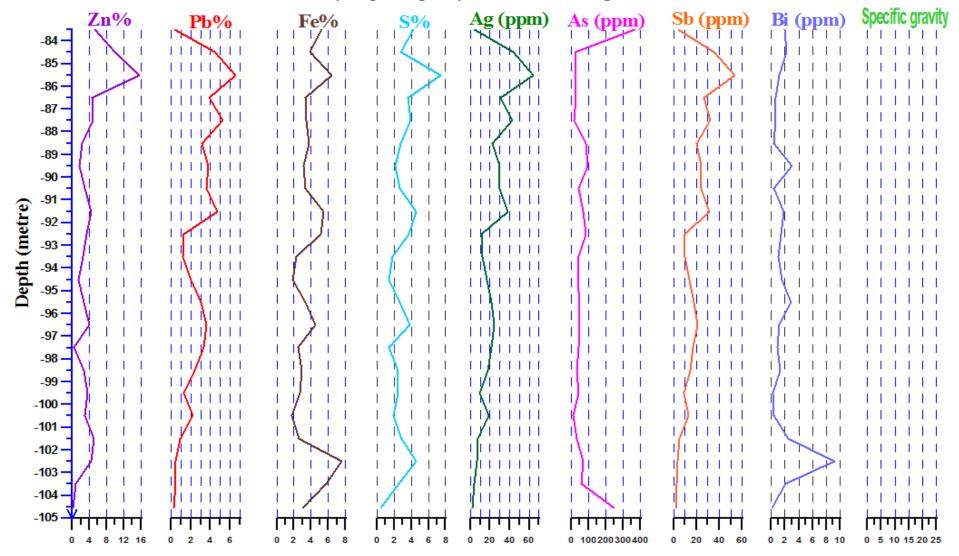
Dip: -43



Easting: 9524.948 Northing: 2065.99 R.L:10117.28 Azimuth grid: 248 Total depth: 161.3

Drill hole: 4064

Dip: - 52

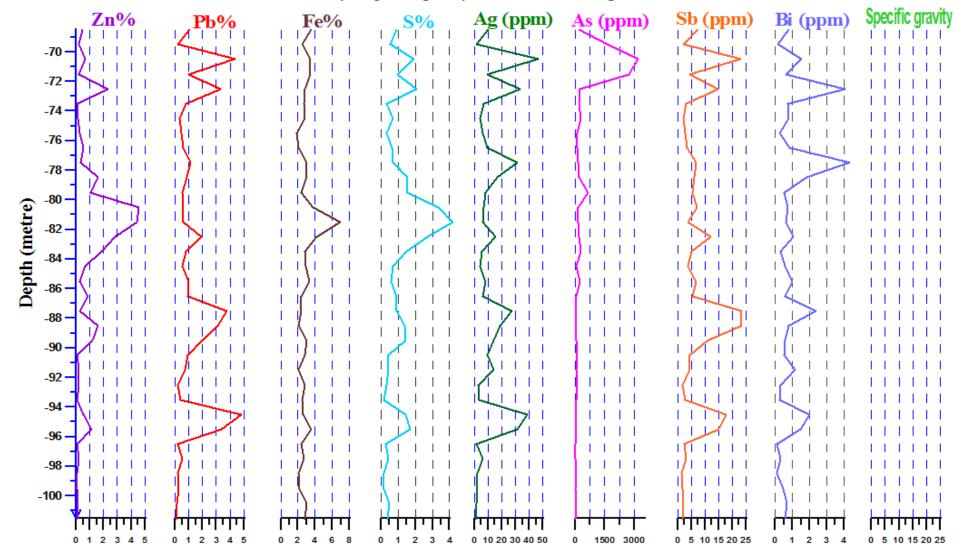


Easting: 9502.925 Northing: 2181.207 R.L:10101.59 Azimuth grid: 277

Total depth: 119.2

Drill hole: 4065

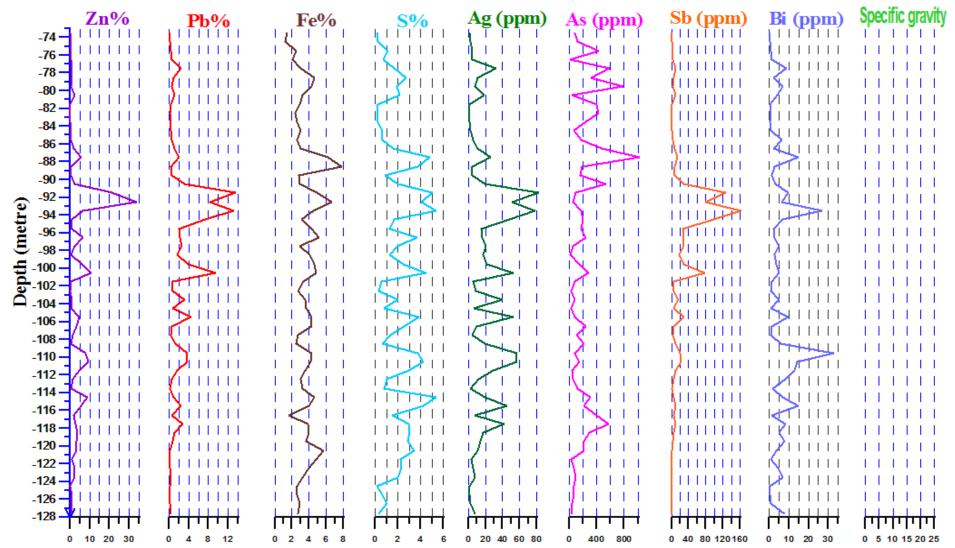
Dip: - 10



Easting: 9502.965 Northing: 2181.22 R.L:10101.34 Azimuth grid: 277 Total depth:142.4

Dip: -17

Drill hole: 4066

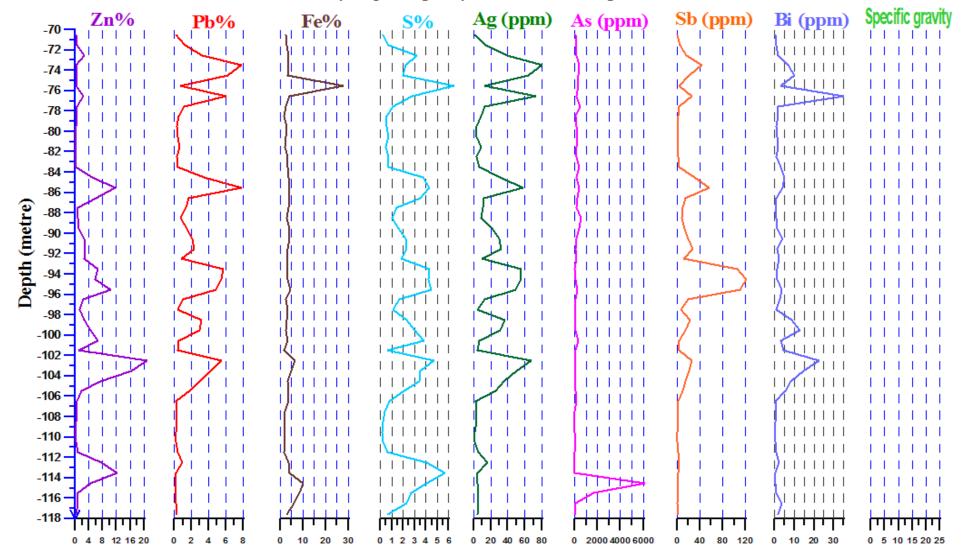


Easting: 9503.051 Northing: 2181.692 R.L:10101.65 Azimuth grid: 288

Total depth: 133.8

L:10101.65 Drill hole: 4067

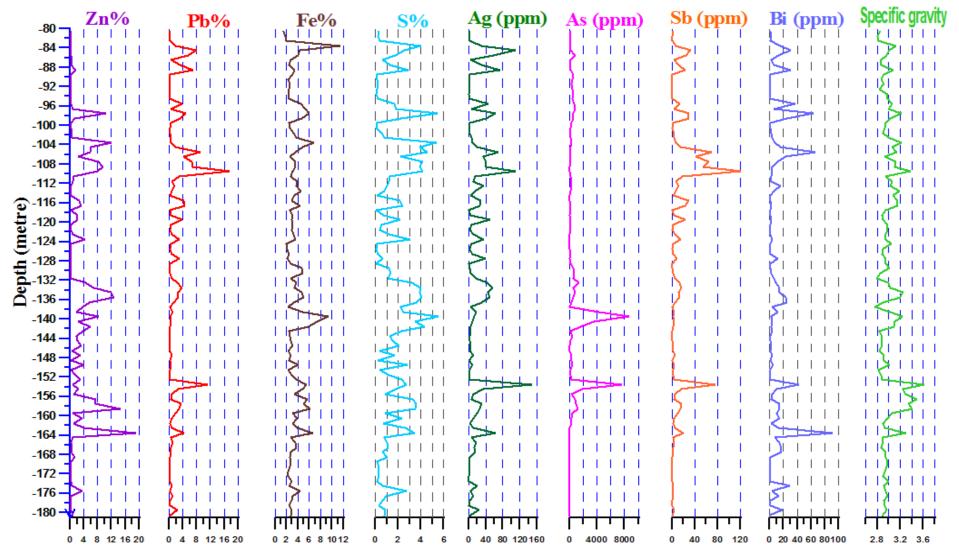
Dip: -8



Easting: 9503.052 Northing: 2181.692 R.L:10101.42 Azimuth grid: 288

Drill hole: 4068

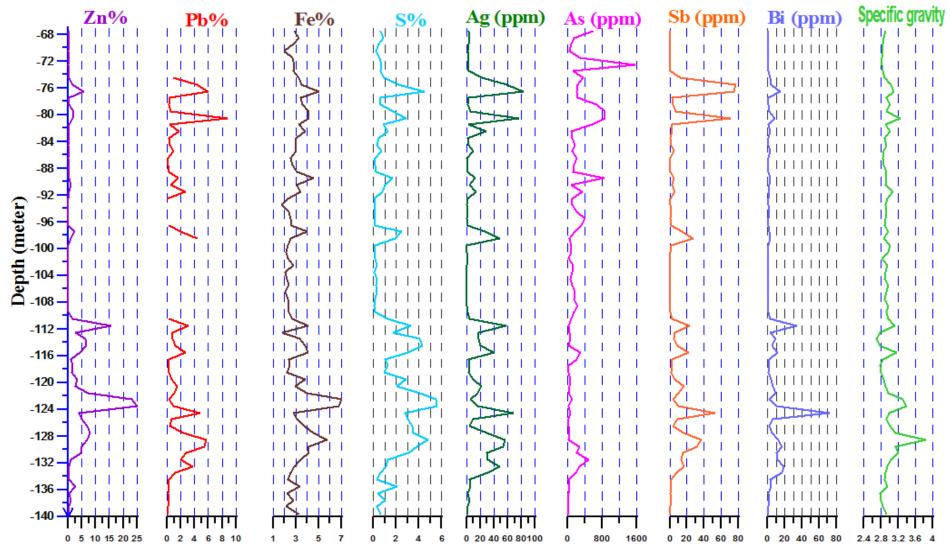
Total depth: 193.5 Dip: -15



Easting: 9479.87 Northing: 2277.87 R.L:10087.92 Azimuth grid: 250

Drill hole: 4069

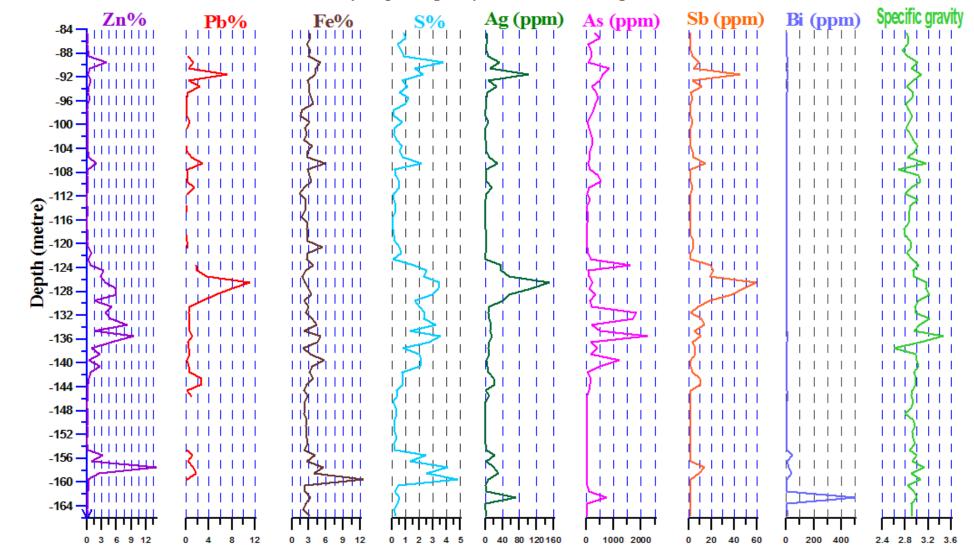
Total depth: 151.6 Dip: -13 Assay & specific gravity in each metre underground drill core



Easting: 9479.98 Northing: 2277.9 R.L:10087.75 Azimuth grid: 250

Drill hole: 4070

Total depth: 182.1 Dip: -20

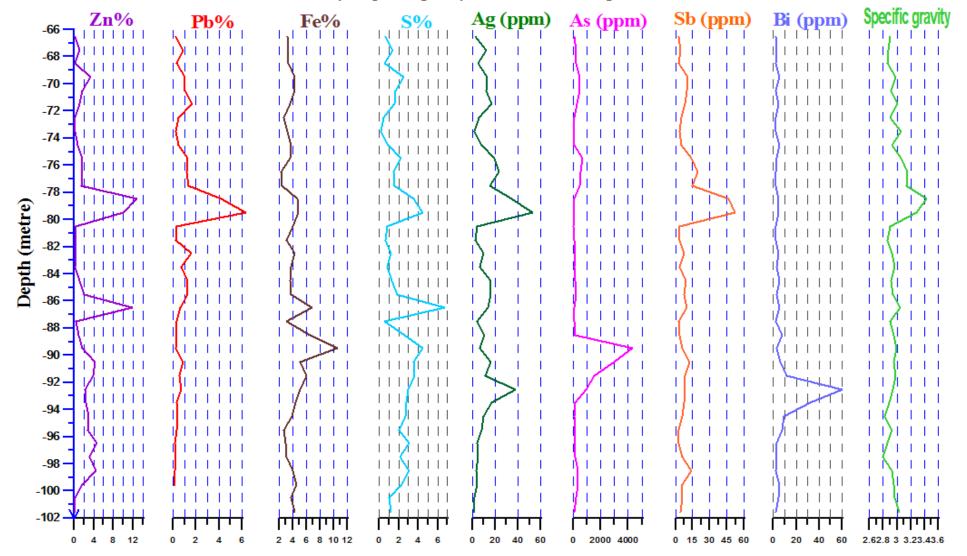


Easting: 9479.96 Northing: 2278.08 R.L:10088.21 Azimuth grid: 252

Total depth: 119.3

Drill hole: 4071

Dip: -2

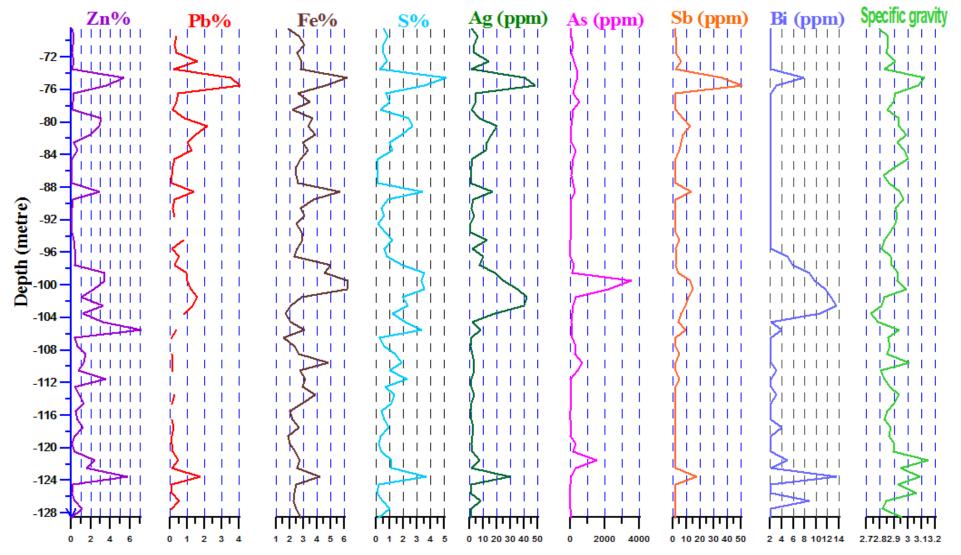


Easting: 9479.87 Northing: 2278.08 R.L:10088.21 Azimuth grid: 252

Total depth: 140.1

Dip: -8

Drill hole: 4072

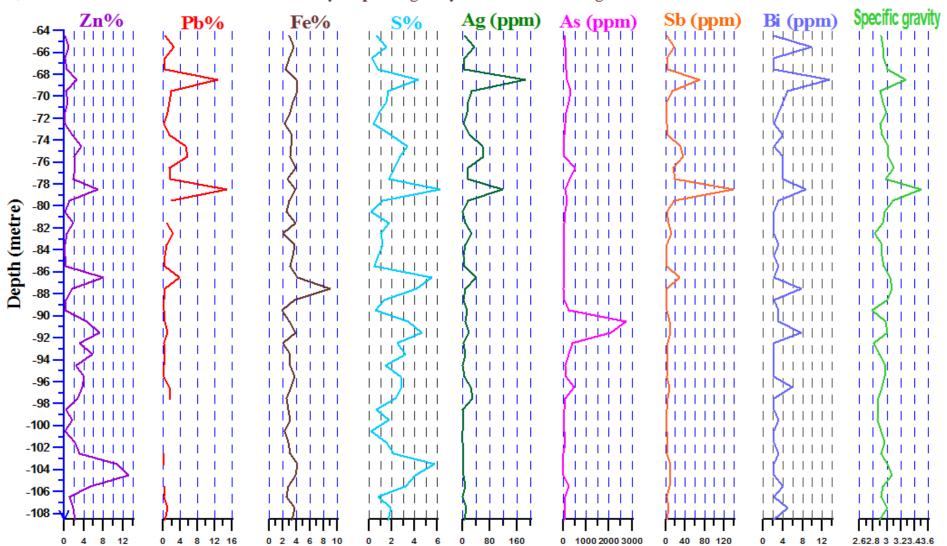


Easting: 9479.77 Northing: 2278.38 R.L:10088.33 Azimuth grid: 260

Total depth: 125.2

Dip: 0

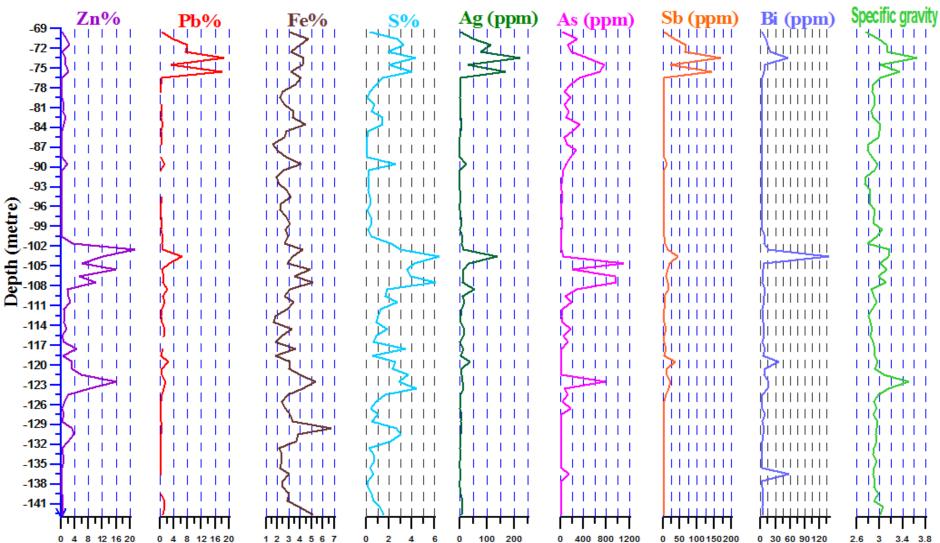
Drill hole: 4073



Easting: 9479.893 Northing: 2278.38 R.L:10088.06 Azimuth grid: 260

Drill hole: 4074

Total depth: 152.2 Dip: -9



Easting: 9479.906 Northing: 2278.365 R.L:10087.76

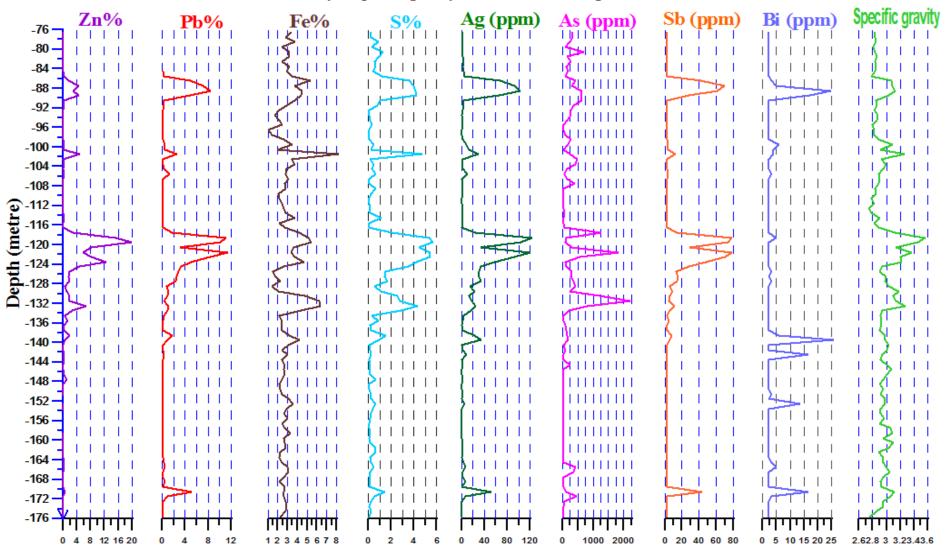
Total depth: 179.2

R.L:10087.76

Azimuth grid: 260

Drill hole: 4075

Dip: -19

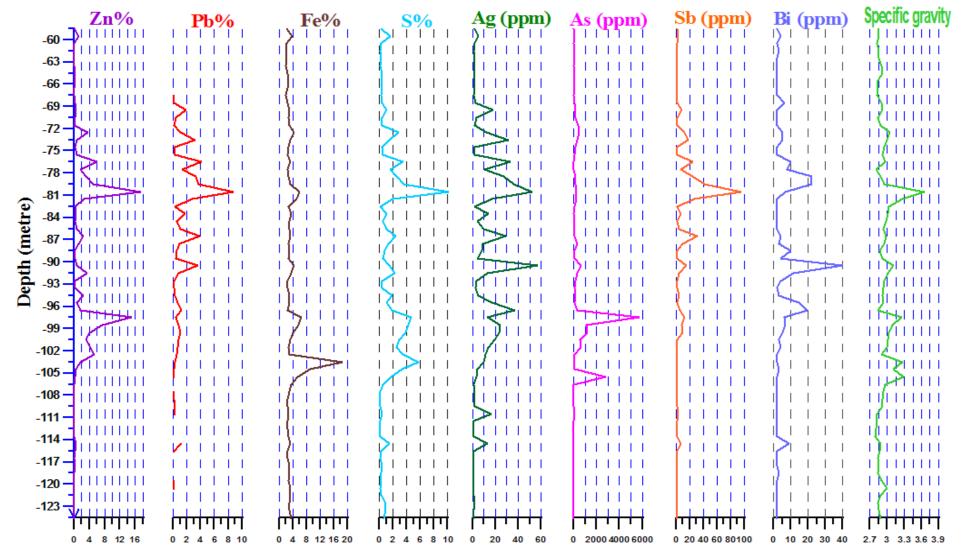


Easting: 9479.861 Northing: 2277.63 R.L:10088.19 Azimuth grid: 260

Total depth: 146.3

Drill hole: 4076

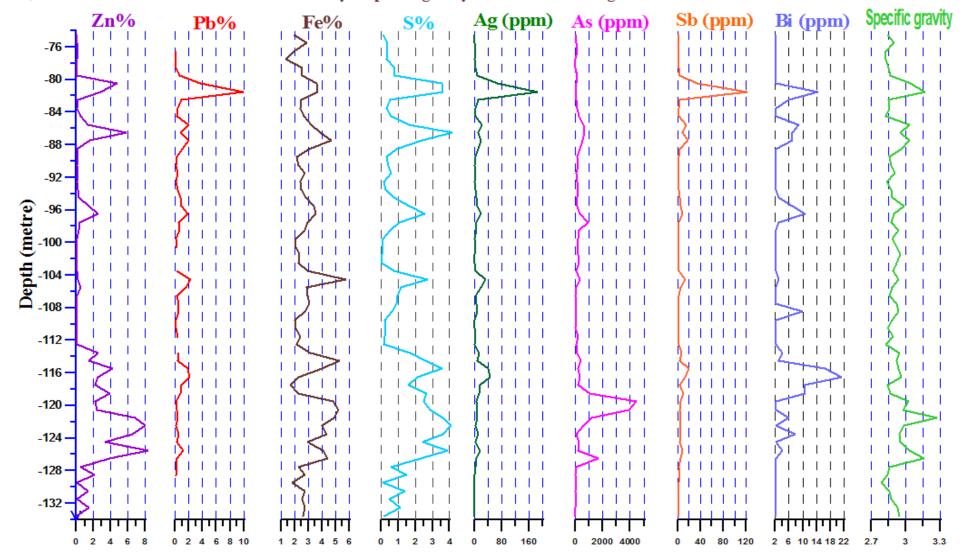
Dip: -2



Easting: 9479.803 Northing: 2277.376 R.L:10087.88 Azimuth grid: 238

Drill hole: 4077

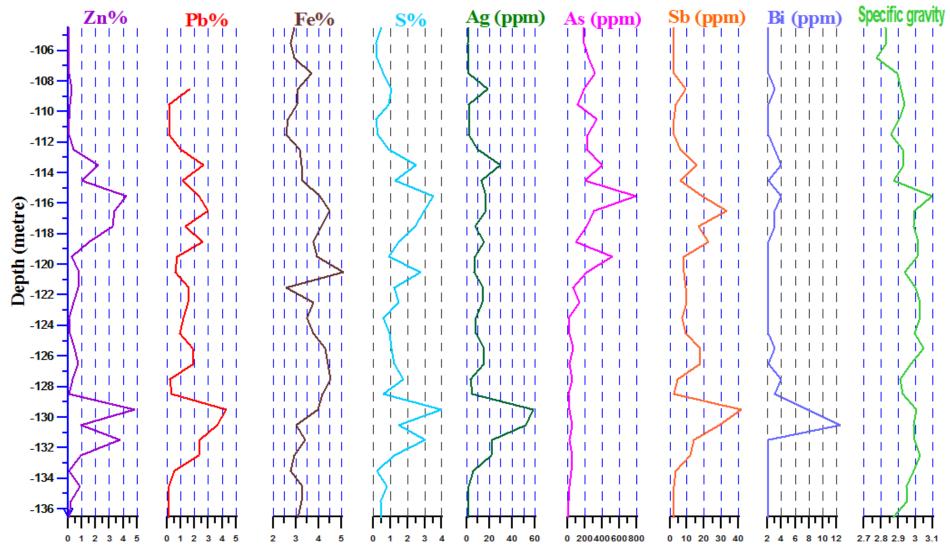
Total depth: 161.2 Dip: -12



Easting: 9545.27 Northing: 2120.16 R.L:10053.87 Azimuth grid: 268 Total depth: 161.1

Dip: 10

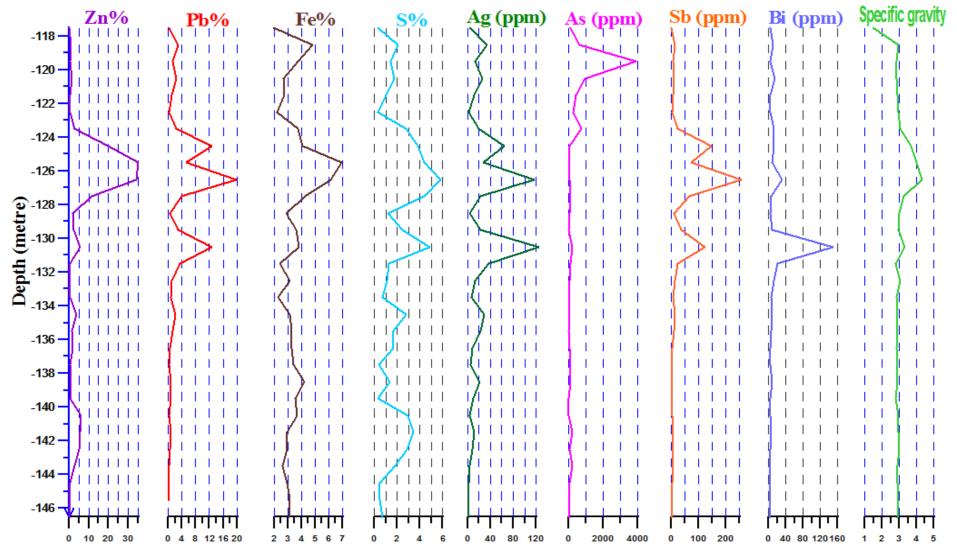




Easting: 9545.35 Northing: 2120.16 R.L:10053.45 Azimuth grid: 268 Total depth:161.1

Dip: 4





Easting: 9545.24 Northing: 2119.86 R.L:10053.73 Azimuth grid: 260 Total depth:167.2

Dip: -2



