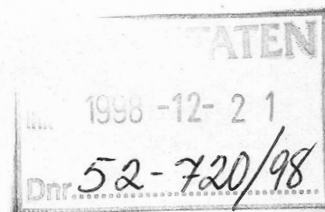


Kankbergsgruvan



Säkringsmaterial för 1998

Innehållsförteckning:

- 1.1 Dagblad - information.
- 2.1 U.J-delen, - information.
- 2.2 Horisontalprojektionsfiler med sparade vyer.
- 2.3 Horisontalskärningar / Rumsblad med sparade vyer.
- 3.1 Filförteckning.

Bilagor

- 1 Översiktskarta / Bladindelning.
- 2 Geologiskt beteckningsschema.
- 3 Koordinatförteckning fixpunkter.
- 4 Koordinatförteckning diamanthål.

1.1 Dagblad - information.

Dagbladet består av 7 filer/kartblad med sparade vyer i A1 – format skala 1:500.

2.1 U.J - delen, - information.

Underjordsdelen består av 2 typer av kartblad. Dels horisontalprojektioner som visar ramper och första skivan på respektive inslag. Dels horisontalskärningar (rumsblad) som visar de olika skivorna på respektive brytningsrum.

Samtliga blad är i A1 – format skala 1:500.

Geologin finns med så långt den är inlagd i datorn.

2.2 Horisontalprojektionsfiler med sparade vyer.

Filerna heter:

HPJR_E4.DGN

HPJR_E5.DGN

HPJR_F3.DGN

HPJR_F4.DGN

HPJR_F2.DGN

HPJR_F1.DGN

HPJR_F0.DGN

HPJR_F5.DGN

HPJR_G4.DGN

HPJR_G5.DGN

Vyerna heter:

HPJ50

HPJ65

HPJ325

HPJ100, HPJ125, HPJ150

HPJ166, HPJ187, HPJ217

HPJ237, HPJ257, HPJ277, HPJ290

HPJ360

HPJ395

HPJ405

HPJ75

HPJG5 (Tomt)

HPJG5 (Tomt)

2.3 Horisontalskärningar / rumsblad med sparade vyer.

Filerna heter:

RB150_F4.DGN

Vyerna heter:

RB108, RB114, RB118, RB124,

RB129, RB134, RB139, RB144,

RB146

Dessa rumsblad täcker samtliga brutna skivor på Rum 1.

RB187_F4.DGN

RB162, RB167, RB173, RB179

RB184, RB189, RB193

Dessa rumsblad täcker samtliga brutna skivor på Rum 2.

RB277_F4.DGN

RB204, RB209, RB214, RB219
RB224, RB229, RB234, RB239
RB244, RB248, RB254, RB259
RB264, RB268, RB274, RB278
RB283

Dessa rumsblad täcker samtliga brutna skivor på Rum 3.

3.1 Filförteckning:

Följande filer ingår i säkringsmaterialet.

Huvudfiler är de filer som skall öppnas för att granska kartan.

Bakgrundsfiler är kopplade som referens till huvudfilerna. Kartbladen ligger som sparade vyer i huvudfilerna.

Huvudfiler:

HPJR_E4.DGN

RB150_F4.DGN

HPJR_E5.DGN

RB187_F4.DGN

HPJR_F0.DGN

HPJR_F1.DGN

HPJR_F2.DGN

HPJR_F3.DGN

RB277_F4.DGN

HPJR_F4.DGN

DAGBL_E4.DGN

HPJR_F5.DGN

DAGBL_E5.DGN

HPJR_G4.DGN

DAGBL_F3.DGN

HPJR_G5.DGN

DAGBL_F4.DGN

DAGBL_F5.DGN

DAGBL_G4.DGN

DAGBL_G5.DGN

HPJR_E4.VYR

RB150_F4.VYR

HPJR_E5.VYR

RB187_F4.VYR

HPJR_F3.VYR

RB277_F4.VYR

HPJR_F4.VYR

DAGBL_E4.VYR

HPJR_F5.VYR

DAGBL_E5.VYR

HPJR_G4.VYR

DAGBL_F3.VYR

HPJR_G5.VYR

DAGBL_F4.VYR

DAGBL_F5.VYR

DAGBL_G4.VYR

DAGBL_G5.VYR

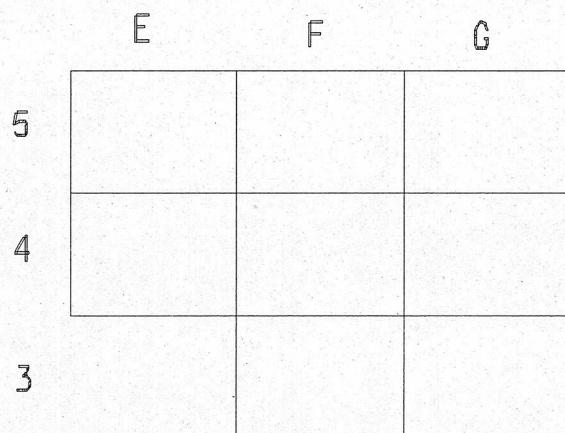
Bakgrundsfiler:	G1K100.DGN	KAL100.DGN
	G1K125.DGN	KAL125.DGN
	G1K150.DGN	KAL150.DGN
	G1K166.DGN	KAL166.DGN
	G1K187.DGN	KAL187.DGN
	G1K205.DGN	KAL205.DGN
	G1K217.DGN	KAL217.DGN
	G1K237.DGN	KAL237.DGN
	G1K257.DGN	KAL257.DGN
	G1K277.DGN	KAL277.DGN
	G1KRAMP.DGN	KALRAMP.DGN
	G1KFLYG.DGN	KALGEOBH.DGN
	G1KFLYG2.DGN	G1KEUORT.DGN
	G1KSTOM.DGN	
	G1KLBILD.DGN	
	G1KUTM.DGN	
	HRUTE4.DGN	HRUTE5.DGN
	HRUTF3.DGN	HRUTF4.DGN
	HRUTF5.DGN	HRUTG4.DGN
	HRUTG5.DGN	

Filer med efternamnet DGN är designfiler där kartmaterialet ligger.

Filer med efternamnet VYR innehåller vy-uppställningarna och måste ligga i samma katalog som DGN-filerna för att man skall kunna koppla upp vyerna som är sparade.

Kartbeskrivning

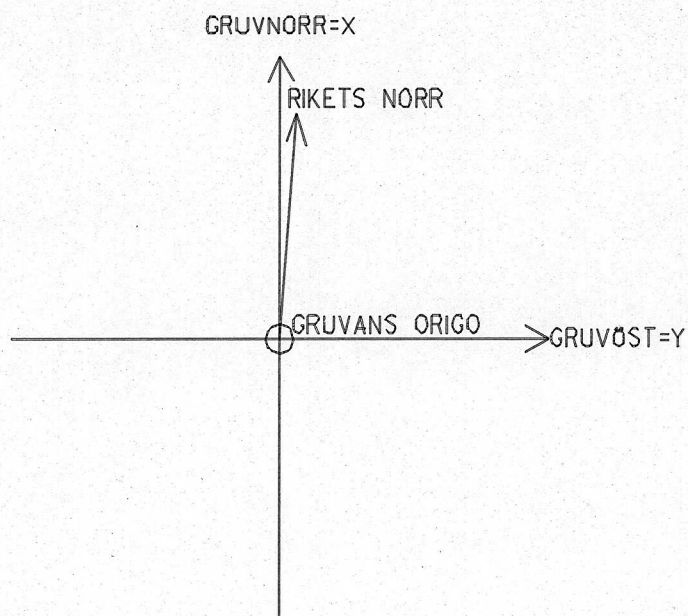
Gruvkartan har upprättats enligt nedanstående bladindelningssystem.



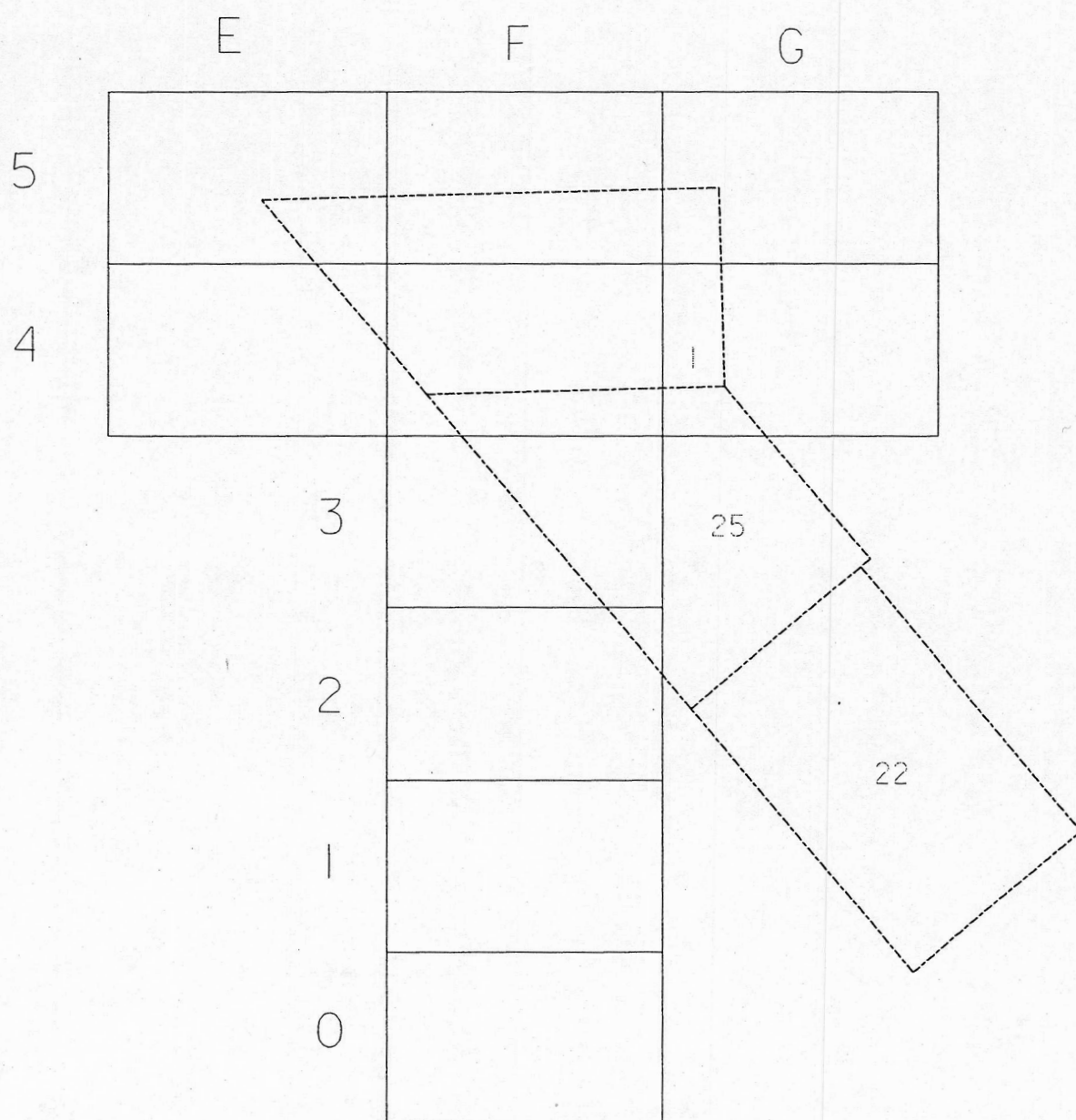
Höjden 280.00 m enligt RH00 är nollpunkt i gruvans höjdsystem.

Origo i gruvans lokala koordinatsystem har koordinaterna:
 $X=7206678.90$ $Y=1709471.70$ i RT90.

Vinkeln från gruvsystemets Norr till Rikets Norr är 4.6016 grader.

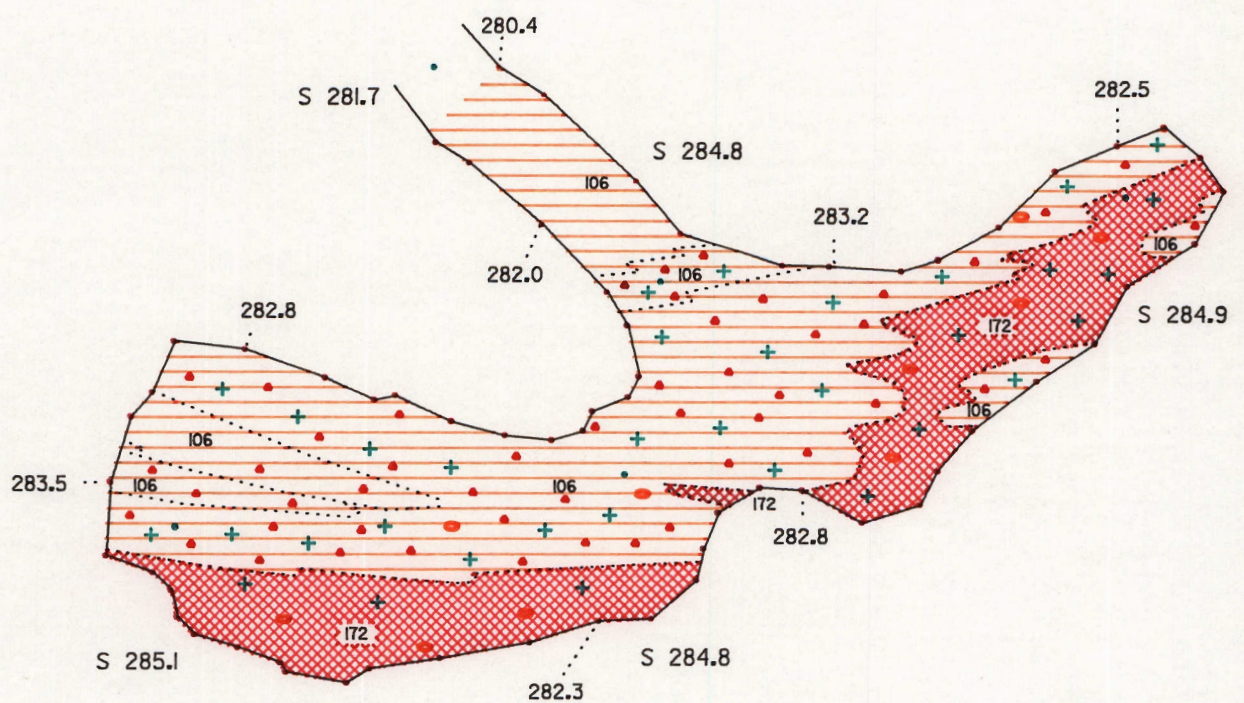


Bladindelning Kankbergsgruvan



KANKBERG

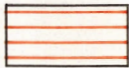
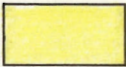
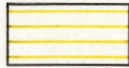
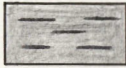
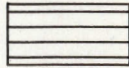
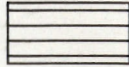
Geologiska beteckningar



K A N K B E R G

Geologiska beteckningar

1(2)

Bergart	Stabilo		Datakod	
Sericitkvartsit	8734		106	
Kvartsporfy	8724, 8749		41	
Keratofyr	8724		44	
Kloritkvartsit	8733		141	
Skarn	8736		109	
Kvarts	8750		136	
Tuffit	8724, 8749		18	
Skiffer, grå	8749, 8749		14	
Skiffer, svart	8746		14	

K A N K B E R G

2 (2)

Geologiska beteckningar

Bergart

Stabilo

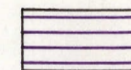
Datakod

Diabas

8747



132



Svavelkis

8740



172



Zinkblände

8738



173



Kopparkis

8743



171

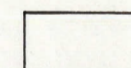
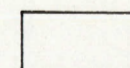
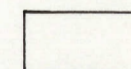
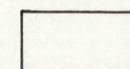
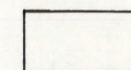
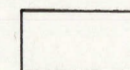
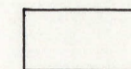
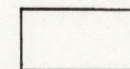


Magnetkis

8735



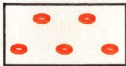
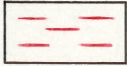
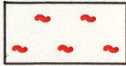
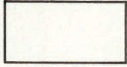
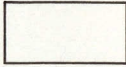
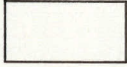
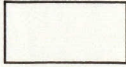
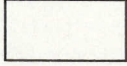
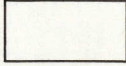
175



K A N K B E R G

I (I)

Impregnations beteckningar

Bergart	Stabilo		Datakod	
Svavelkis	8740		S	
Zinkblände	8738		ZN	
Kopparkis	8743		CU	
Magnetkis	8735		FES	
Kalk	8757		K	
Kvarts	8750		Q	
				
				
				

STOMPUNKTER I KANKBERGSGRUVAN

Nr	X	Y	Z
1	2510.484	1607.860	6.650
2	2639.078	1679.722	21.445
3	2604.563	1727.198	17.065
4	2595.361	1766.100	14.348
5	2609.354	1806.120	17.655
6	2576.480	1873.729	19.550
7	2515.599	1917.583	19.040
8	2509.540	1808.299	4.000
9	2537.094	1778.127	4.848
10	2500.113	1760.519	5.830
11	2697.778	1709.838	42.122
12	2676.006	1683.435	44.030
13	2683.761	1547.104	61.607
14	2696.694	1540.602	62.942
15	2712.373	1548.943	64.905
16	2700.298	1660.931	80.474
17	2696.632	1776.354	96.824
18	2720.699	1874.185	108.868
19	2721.257	1859.759	106.191
20	2687.844	1801.228	99.274
21	2700.688	1815.794	99.858
22	2732.714	1902.095	113.906
23	2710.312	1905.666	116.723
24	2681.922	1752.992	140.249
25	2679.389	1751.106	141.301
26	2701.015	1849.994	124.257
27	2679.152	1742.096	138.291
28	2652.959	1743.424	140.826
29	2636.163	1809.433	146.513
30	2629.651	1810.846	147.246
31	2650.415	1845.598	132.096
32	2644.193	1849.848	132.615
33	2671.341	1851.032	149.581
34	2651.630	1845.704	127.464
35	2650.443	1851.272	127.551
36	2659.814	1790.181	146.608
37	2659.546	1819.465	149.738
38	2674.793	1856.394	154.525
39	2654.619	1868.536	157.787
40	2671.978	1858.169	123.530
41	2666.490	1851.002	124.113
42	2658.396	1847.978	123.081

Nr	X	Y	Z
43	2624.444	1730.010	181.113
44	2632.969	1724.796	180.428
45	2641.272	1786.169	186.007
46	2616.891	1784.185	186.513
47	2570.437	1792.237	193.535
48	2555.022	1793.362	193.839
49	2632.648	1890.861	200.256
50	2631.975	1883.256	200.432
51	2672.787	1857.785	120.219
52	2677.488	1851.589	121.647
53	2592.392	1801.691	213.452
54	2602.432	1800.556	213.105
55	2641.879	1830.621	163.124
56	2656.416	1724.746	176.985
57	2630.102	1718.968	180.644
58	2638.478	1801.579	187.890
59	2650.997	1881.942	199.330
60	2631.663	1890.050	201.244
61	2613.155	1853.527	205.697
62	2598.991	1793.995	214.671
63	2597.040	1735.253	223.761
64	2591.246	1724.370	225.317
65	2580.282	1794.818	183.546
66	2579.552	1790.224	183.447
67	2666.534	1856.216	117.290
68	2667.397	1851.375	117.418
69	2578.935	1753.262	230.140
70	2577.282	1742.373	228.055
71	2645.775	1853.160	115.659
72	2560.279	1806.541	183.972
73	2573.645	1735.742	228.136
74	2553.372	1831.426	183.128
75	2588.318	1792.791	236.767
76	2640.233	1804.089	113.901
77	2641.716	1795.624	113.946
78	2594.150	1813.081	238.149
79	2598.508	1858.451	245.552
80	2571.942	1862.159	248.237
81	2570.491	1836.865	252.082
82	2581.551	1794.529	179.535
83	2583.371	1789.482	179.748
84	2596.621	1805.343	257.002
85	2590.733	1801.020	257.139

Nr	X	Y	Z
86	2560.159	1790.210	178.914
87	2571.629	1782.209	178.787
88	2560.159	1790.210	178.914
89	2560.619	1796.448	179.265
90	2604.623	1788.981	258.322
91	2648.118	1799.232	108.063
92	2651.565	1816.066	105.833
93	2629.118	1790.244	109.495
94	2619.376	1739.499	266.268
95	2598.747	1741.234	269.323
96	2591.668	1805.629	169.247
97	2591.567	1800.545	169.055
98	2587.591	1783.328	275.544
99	2574.183	1795.642	276.135
100	2535.662	1828.343	278.955
101	2531.682	1823.117	278.836
102	2580.661	1812.343	171.931
103	2574.376	1806.947	172.105
104	2516.241	1833.131	278.307
105	2531.189	1837.251	278.480
106	2477.332	1986.244	273.496
107	2591.078	1805.698	166.999
108	2590.657	1800.543	167.320
109	2582.183	1797.211	258.323
111	2537.386	1825.658	274.337
112	2526.666	1823.424	274.339
113	2537.386	1825.658	274.337
114	2526.666	1823.424	274.339
115	2534.910	1819.649	274.130
116	2517.369	1834.833	273.783
117	2540.370	1822.435	269.954
118	2535.401	1818.968	269.616
119	2518.641	1833.004	269.000
120	2523.603	1822.019	268.848
121	2535.649	1837.618	268.852
122	2524.391	1815.133	263.398
123	2511.892	1812.600	263.622
124	2520.808	1832.746	264.547
130	2355.630	2081.648	25.988
131	2361.605	2091.640	26.459
132	2532.671	1804.181	262.187
133	2534.730	1810.427	262.172
134	2538.770	1809.842	258.402

Nr	X	Y	Z
135	2534.442	1802.954	258.342
136	2594.358	1805.199	163.304
137	2594.607	1800.043	163.409
138	2513.155	1812.508	259.292
139	2526.635	1818.744	258.695
140	2525.866	1803.522	259.229
141	2720.860	1785.677	24.299
142	2724.600	1868.978	20.788
143	2551.591	1806.612	253.747
144	2550.772	1800.572	254.039
145	2529.074	1816.389	254.099
146	2530.048	1804.295	254.247
147	2515.169	1813.855	253.970
149	2534.370	1832.043	253.991
150	2521.813	1833.447	254.137
151	2547.864	1799.129	250.824
152	2546.611	1806.897	250.772
153	2555.131	1814.729	240.225
154	2557.137	1819.911	240.261
155	2518.428	1811.660	248.512
156	2531.492	1818.800	249.714
157	2558.091	1813.251	239.727
158	2535.307	1832.214	242.953
159	2525.009	1833.313	243.110
160	2523.384	1818.003	243.492
161	2533.085	1817.054	243.311
162	2547.683	1830.110	238.983
163	2544.379	1830.190	239.098
164	2541.037	1818.866	239.188
165	2538.817	1832.621	239.005
166	2526.906	1836.743	239.007
167	2525.366	1822.000	239.080
168	2549.899	1813.877	234.401
169	2551.849	1827.748	233.862
170	2538.235	1817.326	233.763
171	2539.856	1833.047	233.523
172	2527.789	1828.678	233.637
173	2553.463	1814.018	231.181
174	2558.045	1819.897	230.904
175	2541.126	1816.254	229.644
176	2542.207	1831.040	229.035
177	2528.770	1825.706	228.750
178	2561.798	1817.187	218.646

Nr	X	Y	Z
179	2558.721	1811.419	218.816
180	2543.669	1816.630	222.211
181	2544.305	1829.911	222.364
182	2528.569	1825.680	223.592
183	2544.073	1829.233	219.161
184	2542.989	1816.595	218.921
185	2529.228	1825.163	219.344
186	2559.301	1811.204	214.016
187	2561.189	1817.407	213.953
188	2542.870	1829.363	214.266
189	2542.478	1817.069	214.479
190	2530.469	1824.409	214.146
191	2571.063	1822.612	209.152
192	2569.190	1828.567	209.113
193	2545.590	1828.599	209.071
194	2544.761	1816.434	209.224
195	2531.251	1822.165	208.848
196	2580.785	1836.160	206.395
197	2574.354	1820.918	205.786
198	2552.333	1829.199	204.996
199	2548.876	1816.076	204.436
200	2590.844	1800.371	255.920
201	2606.846	1782.876	259.132
202	2427.048	1705.336	292.842
203	2056.857	1647.259	341.779
204	2037.455	1644.070	344.481
205	2216.383	1668.957	321.212
206	2082.189	1646.050	339.810
207	1935.107	1620.913	360.315
208	1797.240	1597.316	379.071
209	1647.113	1572.479	399.922
1001	2510.701	1607.617	7.055

Borrhål i Kankbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
3	2693.69	1720.16	19.78	50.0	52.4	68.14
5	2695.54	1602.48	15.14	40.0	131.5	74.30
6	2659.85	1663.12	15.87	39.5	335.1	55.40
19	2633.99	1733.78	15.82	44.0	0.0	55.63
20	2628.15	1763.00	16.48	45.0	351.5	87.78
21	2640.13	1831.98	21.41	45.0	0.0	72.05
22	2614.67	1732.04	15.34	45.0	359.5	90.08
23	2620.41	1542.94	6.86	45.0	269.6	105.51
24	2664.91	1712.55	16.41	90.0	0.0	9.02
25	2669.89	1712.58	17.15	90.0	0.0	9.16
26	2667.35	1712.56	16.61	90.0	0.0	9.36
27	2560.89	1733.59	11.51	60.0	359.5	200.56
28	2580.28	1694.04	11.47	61.0	2.0	197.56
29	2978.82	1635.00	32.66	40.0	266.9	88.40
33	2399.27	1977.13	17.03	33.2	271.2	47.92
34	2539.12	1948.27	23.08	49.3	236.2	38.95
36	2633.60	1705.16	15.04	45.0	0.0	87.51
37	2589.84	1765.71	12.79	60.0	0.0	129.11
38	2546.53	1802.24	7.13	59.0	1.0	167.23
39	2785.19	1863.77	27.49	50.0	186.8	48.78
40	2488.62	1338.00	12.39	66.8	6.5	271.80
41	2654.14	1683.74	15.73	44.0	359.2	50.21
42	2653.35	1705.00	15.85	45.0	358.0	50.82
43	2622.08	1705.12	14.96	55.0	0.5	78.70
44	2599.83	1733.89	14.73	54.0	358.0	108.21
45	2651.00	1733.91	16.49	43.0	358.2	55.11
46	2667.25	1832.29	22.89	46.0	83.1	32.15
47	2666.99	1816.90	22.87	44.0	359.6	31.01
48	2667.80	1762.92	19.22	45.0	1.1	45.26
49	2643.70	1763.33	17.63	41.0	358.9	27.73
50	2628.75	1781.90	17.47	44.0	358.8	80.03
51	2610.67	1763.66	15.10	48.0	357.3	100.22
52	2582.64	1799.94	12.36	61.0	356.0	125.06
53	2468.87	1619.64	7.63	50.0	278.1	125.57
54	2480.59	1540.70	7.24	51.6	277.3	119.46
55	2559.72	1552.46	5.45	50.4	278.3	118.22
84	2609.61	1839.88	61.00	71.5	5.6	91.37
85	2609.95	1839.85	61.00	61.8	359.6	79.37
86	2610.81	1840.18	60.30	22.8	357.0	76.40
87	2528.35	1911.94	16.60	57.0	11.7	293.07
88	2391.79	1990.15	17.66	47.0	2.3	70.60
89	2535.00	1862.54	13.60	59.0	8.5	269.77
90	2603.12	1882.61	25.38	51.0	2.5	108.20
91	2506.04	1858.81	11.52	70.0	8.5	230.62
92	2511.79	1809.22	4.82	66.7	6.0	191.85
93	2519.67	1758.91	7.02	63.8	5.3	195.80
94	2642.35	1878.02	26.96	52.6	2.8	60.55
95	2608.56	1912.59	24.72	57.4	6.1	100.30
96	2456.26	1779.40	5.50	71.0	9.5	239.17
97	2373.80	1789.67	8.58	69.5	11.5	349.00

Borrhål i Kankbergsgruvan

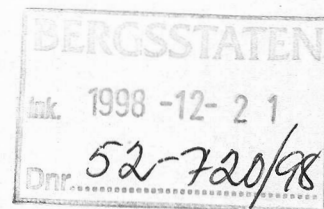
Nr	X	Y	Z	Lutning	Riktning	Längd
98	2381.81	1738.78	7.92	70.5	4.5	345.70
99	2388.31	1689.63	7.99	68.3	8.4	611.50
100	2368.55	1839.07	5.32	72.5	8.5	340.85
101	2266.12	1773.90	8.30	72.0	6.0	489.09
102	2271.76	1724.24	8.02	72.0	9.0	475.20
103	2257.96	1823.42	8.43	71.5	7.0	600.50
104	2281.74	1654.88	7.26	75.5	0.7	606.05
109	2240.33	1336.80	9.22	75.5	8.5	757.95
110	2456.95	1749.53	7.12	65.5	0.0	249.05
111	2416.87	1780.01	5.85	64.0	358.5	272.85
112	2440.34	1839.83	2.75	70.0	358.5	267.00
113	2500.91	1799.85	2.76	62.0	356.5	200.20
114	2606.10	1864.57	21.74	69.0	350.5	120.05
117	2755.74	1655.70	22.51	70.5	35.5	532.90
118	2579.97	1770.18	11.40	53.5	0.0	114.85
119	2582.40	1799.79	12.49	58.5	0.0	117.55
120	2571.13	1879.25	19.28	66.5	0.0	139.75
121	2415.51	1770.14	6.81	66.0	0.7	267.50
122	2438.79	1809.50	3.53	62.0	0.0	253.00
123	2450.10	1819.94	2.40	65.0	2.0	462.50
124	2675.31	1819.58	99.12	24.0	156.6	133.90
125	2712.76	1870.98	109.22	24.2	195.7	105.75
126	2712.43	1870.29	107.89	-19.0	192.3	79.60
127	2712.58	1872.39	107.91	-5.0	168.0	85.90
128	2679.13	1781.81	98.42	-19.0	190.8	36.75
129	2687.55	1835.44	125.84	23.0	176.4	138.65
130	2687.53	1835.32	125.66	15.3	185.2	147.65
131	2682.52	1789.59	99.74	22.5	188.4	82.35
132	2675.06	1819.74	97.15	-27.6	177.6	40.70
133	2647.30	1750.42	141.72	18.2	191.8	92.00
134	2647.38	1750.60	141.66	18.0	170.8	100.25
135	2647.21	1748.14	141.62	17.0	212.0	101.00
136	2648.07	1750.43	139.86	-58.6	156.8	51.10
137	2625.45	1760.13	185.05	0.0	160.3	86.30
138	2625.55	1760.62	184.78	-6.3	139.0	89.30
139	2625.57	1760.47	185.85	15.0	147.0	135.00
140	2625.37	1758.75	186.26	23.4	182.3	115.45
141	2625.37	1758.71	186.31	32.2	194.0	145.60
142	2625.18	1758.15	185.72	6.0	206.5	91.25
143	2625.11	1760.42	183.93	-32.7	152.1	66.50
144	2642.28	1839.55	192.61	0.0	0.0	117.70
145	2642.30	1839.61	192.59	-0.5	167.9	106.75
146	2642.20	1839.45	193.50	27.0	174.6	130.60
147	2642.43	1840.64	192.67	-2.0	151.7	100.00
148	2608.29	1900.00	201.24	19.4	194.0	100.00
149	2608.55	1899.97	200.89	10.6	206.0	85.00
150	2712.00	1870.00	108.00	0.0	187.0	73.45
151	2640.42	1858.79	195.04	-16.9	194.7	100.00
152	2607.00	1788.26	215.13	36.7	164.2	135.50
153	2562.99	1758.44	230.93	48.0	165.6	125.30

Borrhål i Kankbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
154	2574.72	1802.51	237.57	25.0	180.5	120.00
155	2575.01	1801.84	236.65	8.0	182.5	85.20
156	2574.74	1803.39	235.45	-15.0	181.0	75.45
157	2588.30	1869.75	246.78	15.5	188.0	80.60
158	2588.10	1870.88	245.98	8.0	171.7	80.95
159	2588.13	1869.50	244.95	-30.0	186.9	72.10
160	2588.22	1869.39	247.09	35.0	190.0	104.00
161	2579.26	1808.97	237.80	19.4	105.2	113.00
162	2579.18	1808.91	237.42	12.7	148.7	93.30
163	2579.26	1808.80	237.80	46.0	149.0	119.70
164	2590.44	1799.62	257.98	29.0	177.0	119.00
165	2512.00	1795.00	264.00	-24.0	200.0	5.10
166	2512.00	1796.00	264.00	-28.0	200.0	5.70
167	2512.00	1791.00	264.00	-19.0	206.0	5.40
168	2512.00	1792.00	264.00	-24.0	206.0	4.90
169	2513.00	1785.00	264.00	-20.0	209.0	4.80
170	2513.00	1786.00	264.00	-25.0	209.0	11.70
171	2574.60	1802.51	236.08	-29.9	201.5	62.45
172	2574.68	1802.48	237.13	-7.4	202.9	62.85
173	2564.48	1809.90	237.83	-23.7	178.3	52.65
174	2558.15	1813.90	239.14	-4.2	187.3	50.65
175	2558.20	1814.85	238.63	-11.5	169.7	55.00
176	2560.00	1816.91	239.08	-2.6	156.6	49.65
177	2559.79	1817.14	238.21	-19.4	138.1	57.50
178	2559.60	1817.80	237.37	-29.8	132.5	53.30
179	2588.30	1870.31	245.23	-19.6	193.8	74.00
180	2562.24	1757.67	227.98	-30.1	161.1	33.30
181	2562.43	1757.62	230.23	11.9	176.8	47.40
182	2562.49	1757.73	230.39	21.0	161.4	59.05
192	2575.01	1797.94	214.94	-6.0	139.0	60.00
193	2587.04	1792.41	214.28	-5.5	199.0	58.15
194	2573.02	1794.65	215.01	-7.8	189.1	44.05
195	2573.32	1796.46	215.09	-5.0	173.7	55.05
196	2573.33	1796.54	215.08	-9.2	160.4	57.70
197	2613.22	1864.62	204.15	5.4	202.5	108.45
198	2613.19	1864.67	204.17	5.9	193.1	97.90
199	2613.25	1865.06	204.01	6.1	184.2	87.35
200	2613.17	1865.10	204.04	6.8	176.4	65.70
201	2613.17	1865.96	204.31	11.8	166.9	61.00

Långdalgruvan

Säkringsmaterial för 1998



Innehållsförteckning:

- 1.1 Dagblad-information
- 2.1 U.J och dagbrott-information
- 2.2 Horisontalprojektion med sparad vy
- 2.3 Horisontalskärningar med sparade vyer
- 2.4 Tvärprofiler med sparade vyer
- 3.1 Filförteckning

Bilagor

- 1 Kartbeskrivning
- 2 Geologiskt beteckningsschema
- 3 Koordinatförteckning fixpunkter
- 4 Koordinatförteckning diamantborrhål

1.1 Dagblad – information

Dagbladet består av 2 filer/kartblad med sparade vyer i A1-format skala 1:1000.

Filerna heter:

TOP1001.DGN

TOP1002.DGN

T1001

T1002

Vyerna heter:

2.1 U.J och dagbrott – information

Består av 3 typer av kartblad. Dels en horisontalprojektion, som visar rampen och dels horisontalskärningar som visar de olika skivorna på rummet, samt tvärprofiler.

Samtliga blad är i A1-format skala 1:500.

2.2 Horisontalprojektion med sparad vy

Filen heter:

HPJR.DGN

Vyn heter:

HPJ66

2.3 Horisontalskärningar med sparade vyer

Filerna heter:

HBLAD_20.DGN

HBLAD_21.DGN

Vyerna heter:

58m, 63m, 68m, 73m, 78m, 83m,
PA12m, PA17m, PA27m, PA46m,
PA58m, PA68m

PA20m, PA30m, PA46m, PA57m,
PA 67m

2.4 Tvärprofiler med sparade vyer

Filen heter:

PROF.DGN

Vyerna heter:

1380, 1400, 1420, 1440, 1460,
1480, 1500, 1520, 1540, 1560,
1580, 1600, 1620, 1640, 1660,
1680, 1700, 1720, 1740, 1760,
1780, 1800, 1820, 1840, 1860,
1880

3.1 Filförteckning

Följande filer ingår i säkringsmaterialet.

Huvudfiler är de filer som skall öppnas för att granska kartan. Bakgrundsfiler är kopplade som referens till huvudfilerna. Kartbladen ligger som sparade vyer i huvudfilerna.

Huvudfiler:

hblad_20.dgn	hblad_20.vyr
hblad_21.dgn	hblad_21.vyr
prof.dgn	prof.vyr
top1001.dgn	top1001.vyr
top1002.dgn	top1002.vyr
hpjr.dgn	hpjr.dgn

Bakgrundsfiler:

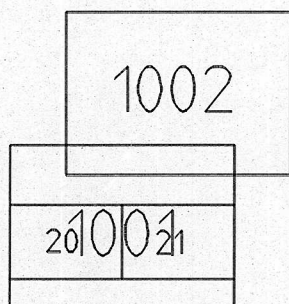
hrut20.dgn
hrut21.dgn
prut.dgn
gldmark.dgn
gldpall.dgn
gldprof.dgn
gldgrum.dgn
gldstom.dgn
glddagbl.dgn
gldrampd.dgn
l1fpall.dgn
l1framp.dgn
l1fgrum.dgn

Filer med efternamnet DGN är designfiler där kartmaterialet ligger.

Filer med efternamnet VYR innehåller vy-uppställningarna och måste ligga i samma katalog som DGN-filerna för att man ska kunna koppla upp vyerna som är sparade.

Kartbeskrivning

Gruvkartan har upprättats enligt nedanstående bladindelningssystem.



Blad 1001, 1002 är topografiska blad.

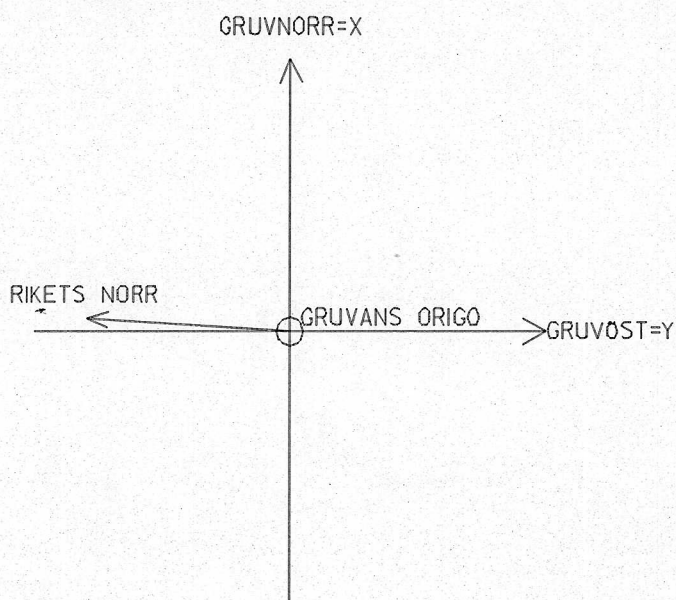
Blad 20, 21 är gruvan.

Höjden 154.90 m enligt RH00 är nollpunkt i gruvans höjdsystem.

Origo i gruvans lokala koordinatsystem har koordinaterna:

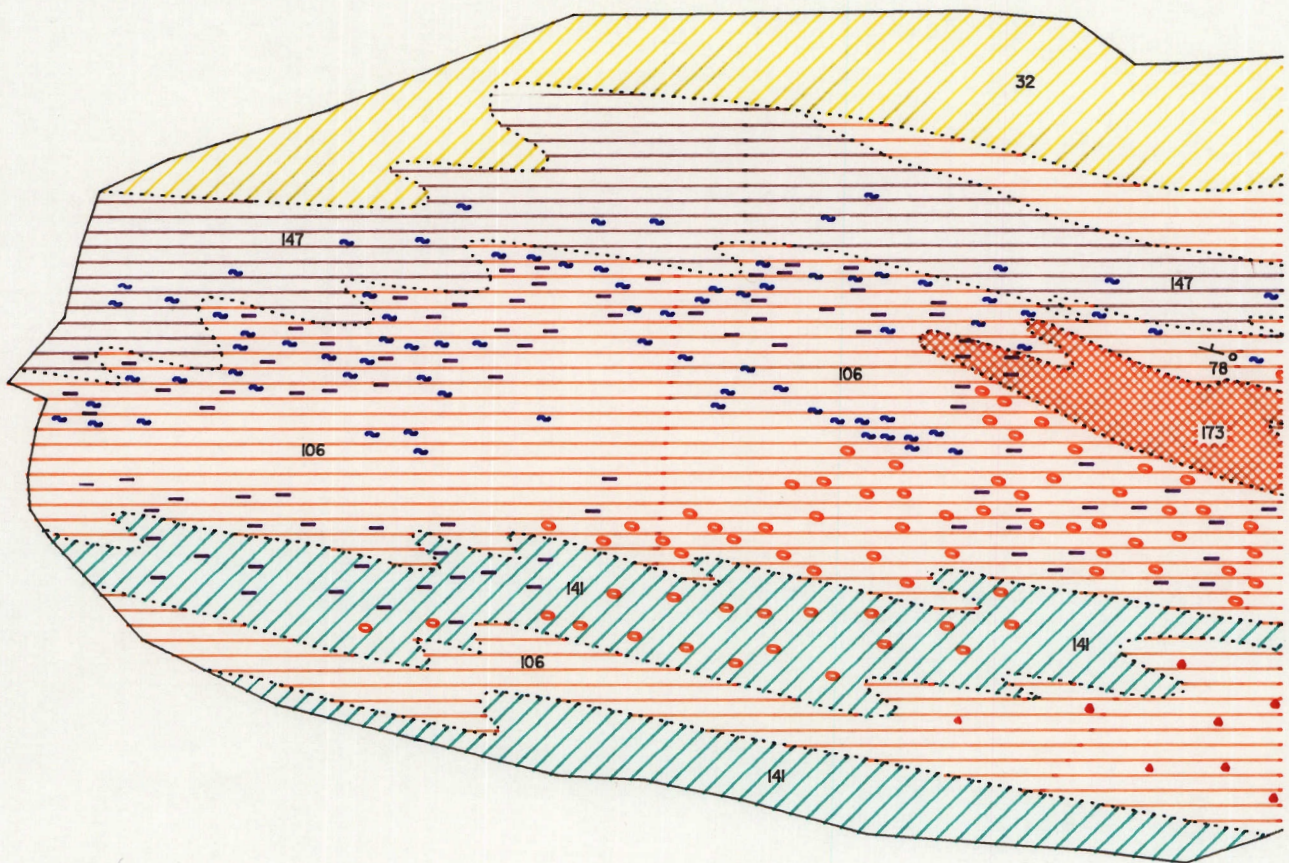
$X=7200171.90$ $Y=1708386.40$ i RT90.

Vinkeln från gruvsystemets Norr till Rikets Norr är 273.3595grader.



LANGDAL

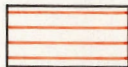
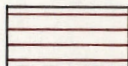
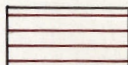
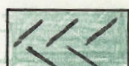
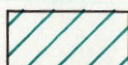
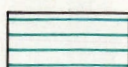
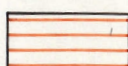
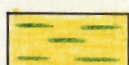
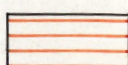
Geologiska beteckningar



L Å N G D A L

1(3)

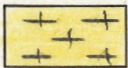
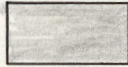
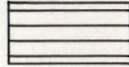
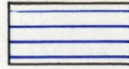
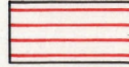
Geologiska beteckningar

Bergart	Stabilo		Datakod	
Sericitkvartsit	8734		106	
Biotitkvartsit	8739		147	
Biotitkloritkvartsit	8739, 8733		146	
Skarn	8736		109	
Hornbländeskarn	8736, 8749		280	
Kloritkvartsit	8733		141	
Kloritskiffer	8733, 8749		161	
Sericitbiotitkvartsit	8734, 8739		281	
Sericitkloritkvartsit	8734, 8733		140	

L Å N G D A L

2 (3)

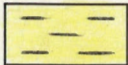
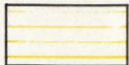
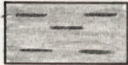
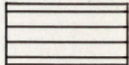
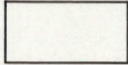
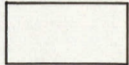
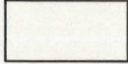
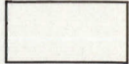
Geologiska beteckningar

Bergart	Stabilo		Datakod	
Kordieritsericitkvartsit	8734, 8749		282	
Talkkvartsit	8734, 8736		283	
Dacit	8724, 8736		32	
Dacit, amfibolitiserad	8724, 8736		32	
Kvartsporfyr med tuff	8724, 8754		41	
Skiffer, svart	8749		14	
Kalksten	8757		118	
Kvarts	8750		136	
Pegmatit	8750, 8750		125	

L Å N G D A L

3 (3)

Geologiska beteckningar

Bergart	Stabilo		Datakod	
Tuffit, bandad	8724, 8749		18	
Grönsten	8747		129	
Skiffer, grå	8749, 8749		14	
Zinkblände	8738		173	
Svavelkis	8740		172	
Blyglans	8737		174	
Kopparkis	8743		171	
				
				

L Å N G D A L

I (I)

Impregnations beteckningar

Bergart

Stabilo

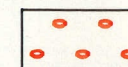
Datakod

Zinkblände

8738

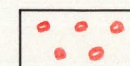


ZN

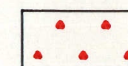


Svavelkis

8740

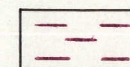


S

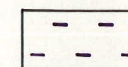


Blyglans

8737

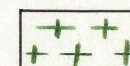


PB

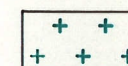


Kopparkis

8743

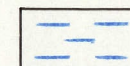


CU

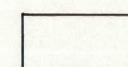
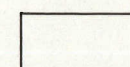
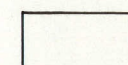
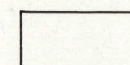
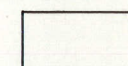
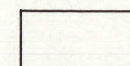
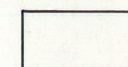
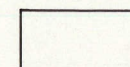
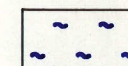


Kalk

8757



K



Stompunkter i Långdalgruvan

Nr	X	Y	Z
0	1350.014	1609.039	11.986
1	1398.991	1851.108	0.001
2	1399.214	1849.359	0.001
3	1400.283	1836.389	0.001
4	1399.379	1835.260	0.001
5	1399.914	1817.591	0.001
6	1400.156	1814.407	0.001
7	1402.493	1797.614	0.002
8	1407.412	1773.194	0.002
9	1408.949	1755.527	0.003
10	1413.578	1730.411	0.003
11	1414.145	1718.187	0.004
12	1387.801	1818.700	0.001
13	1384.447	1750.611	0.003
14	1413.549	1730.213	0.003
15	1409.524	1755.842	0.003
16	1407.010	1773.164	0.002
17	1432.264	1834.112	0.001
18	1432.487	1833.711	0.001
19	1432.128	1820.582	0.001
20	1432.344	1820.253	0.001
21	1436.718	1803.437	0.001
22	1436.648	1802.970	0.001
23	1439.667	1788.983	0.002
24	1441.920	1775.457	0.002
25	1442.128	1774.847	0.002
26	1440.249	1762.141	0.002
27	1442.205	1749.016	0.003
28	1441.530	1748.959	0.003
41	1515.591	1678.633	102.190
42	1513.283	1679.054	102.478
43	1511.018	1670.980	102.619
44	1497.989	1663.245	102.032
49	1450.170	1735.880	101.817
52	1447.611	1810.923	101.517
53	1452.331	1828.354	101.522
54	1455.201	1844.073	100.831
55	1455.513	1868.614	100.834
56	1456.155	1911.090	100.583
60	1472.336	1657.356	101.615
61	1464.895	1645.573	102.098

Stompunkter i Långdalgruvan

Nr	X	Y	Z
68	1452.509	1572.578	101.899
69	1452.014	1546.180	101.917
70	1452.274	1512.558	101.730
71	1452.122	1482.624	101.431
72	1451.279	1452.644	101.534
73	1450.456	1422.710	101.423
74	1450.262	1392.710	101.385
75	1450.074	1362.772	101.502
105	1512.045	1689.252	201.969
106	1515.705	1679.113	202.100
107	1513.549	1673.580	202.378
111	1506.063	1664.458	201.966
112	1312.000	1652.746	202.024
113	1464.609	1598.463	201.794
114	1463.923	1550.294	201.515
116	1463.942	1468.614	201.093
119	1465.864	1655.301	201.790
120	1471.908	1661.959	202.130
121	1464.289	1668.527	201.630
128	1472.637	1825.287	200.530
129	1472.558	1855.256	200.573
130	1472.481	1885.255	200.473
131	1472.402	1915.099	200.380
150	1475.042	1833.812	250.344
151	1489.236	1846.780	250.074
152	1510.191	1855.584	250.301
153	1474.525	1884.446	249.992
154	1474.143	1918.922	250.042
155	1487.129	1969.064	249.605
159	1457.369	1738.459	251.222
160	1446.402	1692.900	251.262
161	1449.012	1657.310	251.266
162	1467.141	1613.377	251.970
163	1465.864	1592.648	251.659
165	1467.907	1659.829	252.200
166	1476.189	1668.251	252.300
167	1486.490	1996.778	249.696
169	1535.553	1668.891	301.040
179	1461.199	1697.012	301.464
181	1513.717	1693.126	301.764
203	1523.184	1696.743	351.890

Stompunkter i Långdalgruvan

Nr	X	Y	Z
204	1523.981	1692.298	351.689
206	1524.899	1679.723	351.853
208	1525.667	1657.608	351.280
209	1520.575	1643.046	351.716
210	1516.475	1640.171	351.469
211	1489.943	1629.877	351.345
212	1483.979	1624.036	351.513
213	1480.929	1615.784	351.567
214	1474.637	1597.884	351.334
215	1492.003	1648.213	351.369
216	1500.150	1668.281	351.730
219	1505.148	1721.349	351.421
221	1508.658	1777.972	350.930
225	1508.673	1876.177	350.625
229	1480.840	1954.570	351.012
231	1514.628	1677.332	401.600
232	1513.737	1675.514	401.970
233	1513.450	1672.425	401.920
234	1523.770	1660.710	406.366
235	1527.338	1659.201	406.240
236	1526.840	1663.376	406.402
237	1502.640	1658.372	401.990
241	1498.340	1600.642	401.263
243	1467.926	1596.413	401.067
244	1502.345	1704.354	401.930
245	1506.707	1719.247	401.720
246	1502.994	1725.309	401.700
251	1502.994	1820.566	401.320
252	1502.994	1828.446	401.260
253	1503.322	1871.190	401.270
254	1502.994	1874.939	401.130
255	1500.449	1904.055	401.130
256	1500.015	1909.016	401.410
257	1497.129	1942.034	401.070
258	1496.254	1952.036	401.090
259	1493.081	1988.332	400.930
260	1492.532	1994.607	400.710
261	1488.548	2040.200	400.710
262	1487.976	2046.722	400.730
303	1468.635	1531.612	250.933
336	1502.661	1610.959	401.420

Stompunkter i Långdalgruvan

Nr	X	Y	Z
337	1501.998	1611.125	401.510
350	1457.588	1683.148	251.570
351	1472.407	1694.228	251.310
352	1475.236	1768.673	251.040
355	1501.240	1775.310	250.880
361	1471.054	1659.809	102.913
365	1510.010	1816.870	250.480
366	1516.980	1839.240	250.140
373	1475.741	1793.627	250.560
374	1474.933	1803.022	250.740
382	1514.483	1676.992	301.486
383	1504.012	1666.345	300.501
385	1464.121	1667.251	300.844
387	1449.538	1668.837	300.770
391	1473.995	1473.535	251.474
392	1474.395	1468.717	251.196
399	1442.091	1680.772	299.930
400	1449.035	1708.392	300.054
401	1478.967	1421.494	250.234
402	1461.301	1757.173	299.612
415	1487.397	1769.038	300.085
418	1509.048	1832.390	351.004
419	1475.246	1842.462	296.205
422	1490.950	1849.824	295.167
430	1487.943	1792.626	288.626
441	1475.328	1793.953	288.467
442	1472.879	1848.250	280.130
443	1477.686	1848.809	279.300
448	1486.600	1846.950	278.840
449	1493.827	1854.347	280.200
450	1490.062	1845.385	283.250
470	1486.032	1807.052	278.091
471	1491.252	1788.541	271.860
472	1489.790	1796.758	272.318
473	1486.061	1796.723	272.130
474	1492.091	1785.245	271.470
475	1493.750	1787.979	271.610
481	1490.545	1795.186	276.680
482	1494.522	1783.154	276.380
483	1470.789	1799.339	276.350
486	1468.329	1847.384	269.910

Stompunkter i Långdalgruvan

Nr	X	Y	Z
487	1484.400	1852.598	264.400
488	1487.173	1856.559	264.450
489	1486.881	1854.189	264.100
490	1484.400	1856.018	264.540
491	1471.188	1853.752	263.970
492	1471.188	1848.242	265.050
493	1488.703	1854.306	268.690
494	1483.289	1845.777	268.010
495	1490.136	1881.204	268.620
496	1492.301	1901.799	271.370
497	1487.950	1808.410	262.570
498	1485.070	1808.050	257.570
499	1485.310	1802.150	256.760
500	1485.079	1659.155	154.420
501	1505.890	1660.977	154.460
502	1513.194	1679.547	152.480
505	1483.860	1785.250	262.090
506	1494.148	1673.590	155.246
507	1490.844	1719.735	162.115
508	1465.088	2082.947	7.609
509	1480.403	1764.995	168.513
510	1473.283	1753.726	167.485
511	1469.523	1727.107	171.997
512	1478.517	1705.951	175.159
513	1456.165	1676.140	181.565
516	1462.202	1830.592	167.860
517	1456.382	1837.765	167.762
520	1452.627	1878.225	165.837
524	1517.495	1686.450	52.010
525	1522.793	1688.348	52.787
526	1517.623	1690.364	53.400
531	1465.376	1657.470	150.693
532	1461.180	1579.034	154.175
533	1473.187	1584.006	153.943
534	1474.649	1588.817	153.253
535	1460.019	1568.792	153.083
536	1459.852	1569.453	153.090
537	1468.134	1575.295	152.083
544	1460.802	1921.556	161.020
545	1455.027	1943.165	161.971
546	1449.053	1937.214	281.070

Stompunkter i Långdalgruvan

Nr	X	Y	Z
547	1446.143	1946.690	282.195
550	1451.164	1756.557	101.948
551	1455.100	1756.573	101.428
555	1454.922	1923.517	100.812
556	1450.361	1926.462	100.233
559	1455.775	1924.041	100.603
560	1431.112	1937.684	100.027
561	1426.805	1941.732	99.993
570	1424.562	2043.970	98.428
571	1425.404	2045.224	98.709
572	1422.127	2040.257	99.069
573	1425.960	1997.455	99.885
574	1421.842	2040.790	99.107
576	1440.392	2063.806	98.897
584	1462.436	1668.709	154.044
585	1465.359	1738.668	153.947
590	1466.152	1776.782	154.683
593	1465.512	1759.661	155.232
594	1464.916	1499.229	203.890
596	1470.393	1804.458	154.980
597	1446.542	1497.659	201.341
608	1519.133	1663.090	303.863
609	1521.654	1663.321	304.432
613	1456.506	1820.522	154.836
614	1484.927	1711.211	172.836
615	1478.843	1718.273	171.697
616	1456.656	1647.489	303.734
617	1456.993	1580.097	303.453
619	1454.509	1845.455	153.214
620	1465.398	1796.401	154.867
625	1498.608	1792.790	149.790
627	1483.960	1778.849	146.948
632	1430.697	1468.233	156.268
633	1472.906	1862.596	155.892
634	1490.496	1520.268	303.298
635	1471.893	1983.071	282.687
636	1473.293	1995.551	281.771
637	1454.971	1906.760	148.499
638	1466.770	1855.707	155.260
639	1488.040	1441.202	302.113
640	1436.301	1949.676	146.694

Stompunkter i Långdalgruvan

Nr	X	Y	Z
641	1460.078	1494.903	152.980
642	1457.736	1485.856	153.520
643	1467.074	1661.542	154.040
644	1461.234	1631.174	154.067
645	1463.417	1492.307	154.370
649	1439.949	1929.626	148.265
650	1436.299	1949.698	146.689
651	1499.647	1658.131	454.960
652	1504.251	1667.609	454.924
653	1517.927	1678.938	454.583
655	1512.519	1660.924	454.537
656	1488.963	1735.195	144.640
660	1485.030	1904.455	151.500
661	1513.048	1605.968	462.576
662	1512.677	1603.684	459.842
663	1511.135	1600.514	460.408
664	1480.919	1762.270	146.050
667	1511.622	1595.780	461.513
668	1507.013	1592.681	462.237
671	1505.096	1587.390	466.033
672	1491.516	1591.409	467.663
679	1465.135	1658.157	154.182
687	1464.069	1778.759	143.702
688	1457.476	1813.221	138.372
689	1500.319	1653.325	132.975
690	1471.545	1554.278	247.726
692	1472.195	1546.758	244.665
694	1498.331	1647.431	132.214
695	1476.181	1663.677	130.161
698	1487.099	1623.766	127.913
699	1469.625	1576.621	153.146
700	1469.625	1586.849	153.266
701	1460.383	1579.262	153.215
702	1471.366	1579.262	153.005
703	1505.200	1645.843	131.547
704	1509.753	1656.780	131.772
705	1508.478	1646.416	131.597
706	1503.863	1648.135	131.665
707	1498.360	1610.499	127.638
709	1469.193	1576.545	153.121
710	1468.005	1586.937	153.150

Stompunkter i Långdalgruvan

Nr	X	Y	Z
711	1472.005	1580.476	153.049
712	1460.333	1579.289	153.168
715	1492.857	1662.750	477.337
718	1451.639	1858.985	137.397
719	1468.839	1979.488	144.436
720	1465.162	1916.072	145.080
721	1489.028	1522.407	300.088
722	1489.747	1520.693	300.126
723	1484.767	1518.566	300.085
727	1460.033	1591.732	153.388
728	1460.175	1581.401	153.293
733	1463.692	1544.309	139.330
734	1472.960	1810.200	139.710
735	1471.234	1827.073	142.206
737	1507.866	1587.095	465.940
743	1483.232	1732.676	142.553
744	1483.001	1666.611	51.891
745	1463.578	1653.006	54.381
746	1461.924	1684.816	53.012
748	1464.161	1704.343	148.339
749	1450.147	1542.489	145.226
750	1460.063	1475.653	252.324
751	1440.587	1705.467	150.607
752	1445.531	1594.598	53.918
753	1460.147	1754.353	53.437
759	1439.718	1480.303	252.448
761	1457.633	1819.289	51.934
762	1460.824	1822.561	52.854
764	1450.279	1537.460	53.301
765	1447.648	1445.383	52.140
766	1429.907	1877.223	52.194
767	1413.365	1920.973	51.366
770	1413.667	1922.854	51.340
773	1417.171	2025.741	50.029
779	1464.595	1865.296	135.631
780	1422.947	1902.469	125.526
783	1471.520	1547.937	119.500
784	1440.803	1531.540	133.067
785	1486.366	1880.245	136.512
786	1547.631	1587.377	463.690
787	1612.076	1580.908	461.569

Stompunkter i Långdalgruvan

Nr	X	Y	Z
788	1652.466	1578.995	460.126
789	1619.257	1583.329	460.383
792	1414.064	1931.661	120.656
793	1419.482	1975.909	114.771
794	1406.120	1990.602	110.987
872	1452.707	1569.227	54.207
874	1477.544	1561.077	57.816
877	1506.778	1551.737	61.203
883	1469.576	1561.279	56.300
887	1528.643	1589.838	66.232
888	1513.544	1596.658	67.319
905	1517.996	1609.611	84.272
909	1471.285	1724.844	113.388
910	1407.536	1938.149	105.754
911	1430.894	1913.539	120.379
912	1454.364	1908.910	116.589
916	1494.118	1574.405	89.686
917	1421.053	1908.608	107.005
918	1396.160	1977.812	109.713
919	1412.148	1941.262	106.476
922	1512.063	1567.686	91.223
924	1527.616	1588.003	95.514
931	1471.950	1557.240	104.389
938	1466.253	1775.415	52.333
999	1539.473	1661.810	201.769
1000	1537.031	1658.032	201.545
1018	1489.352	1674.715	87.148
1020	1490.504	1762.951	88.420
1021	1485.949	1758.699	87.389
1022	1484.049	1777.445	87.435
1034	1490.175	1763.902	88.251
1039	1538.631	1661.294	201.607
1040	1541.038	1664.655	201.381
1042	1471.006	1727.694	89.703
1054	1470.590	1784.993	86.832
1058	1465.029	1820.667	90.964
1059	1451.238	1843.297	93.725
1060	1466.983	1797.586	87.172
1273	1452.101	1718.146	77.418
1274	1453.304	1711.181	76.776
1305	1448.569	1654.037	76.403

Stompunkter i Långdalgruvan

Nr	X	Y	Z
1306	1443.155	1656.608	76.532
1320	1441.295	1594.668	76.355
1321	1435.363	1595.480	76.525
1324	1492.522	1434.297	-10.886
1325	1351.610	1503.930	-2.186
1326	1350.242	1518.615	0.942
1327	1348.095	1552.860	10.573
1328	1347.490	1726.055	11.596
1329	1512.622	1769.872	10.161
1330	1645.425	1895.412	-2.884
1331	1577.113	1831.767	-0.533
1333	1519.526	1846.898	12.298
1334	1447.791	1743.453	26.917
1335	1464.938	1762.099	25.145
1336	1520.772	1754.599	5.608
1337	1472.564	1717.603	24.228
1338	1477.773	1656.667	23.921
1340	1460.225	1591.310	23.233
1341	1400.339	1655.315	26.706
1342	1406.740	1692.720	26.080
1343	1453.989	1546.205	23.667
1344	1452.183	1482.929	25.871
1345	1435.769	1464.750	24.810
1346	1470.148	1698.356	37.116
1347	1470.984	1668.773	36.475
1350	1465.146	1630.478	49.585
1351	1475.800	1635.823	49.492
1352	1398.727	1614.400	35.086
1353	1398.214	1574.437	33.717
1354	1393.935	1522.831	35.419
1355	1445.163	1490.496	35.743
1356	1449.686	1587.894	35.696
1357	1464.551	1640.017	46.481
1358	1466.684	1673.754	45.371
1359	1463.811	1698.470	43.892
1360	1458.375	1718.444	42.029
1361	1410.899	1801.166	35.683
1362	1435.719	1827.489	34.044
1363	1411.094	1507.780	46.749
1364	1443.957	1519.489	45.486
1365	1460.632	1707.316	45.370

Stompunkter i Långdalgruvan

Nr	X	Y	Z
1366	1425.113	1699.375	47.319
1367	1461.740	1635.168	54.306
1368	1418.443	1648.800	56.500
1369	1408.502	1590.586	56.180
1370	1718.952	2417.887	-23.125
1371	1667.502	2368.634	-28.370
1372	1351.313	2625.022	-22.432
1373	1384.137	2621.053	-22.999
1374	1573.822	2739.489	-23.858
1375	1580.453	2718.745	-23.852
1376	1414.966	1796.693	47.224
1377	1414.777	1867.272	45.035
1378	1442.593	1945.846	6.950
1379	1426.166	1819.671	46.923
1380	1466.719	1664.636	52.359
1381	1465.400	1694.909	51.513
1382	1411.821	1855.968	55.463
1383	1405.975	1838.637	55.638
1384	1471.691	1528.456	59.506
1385	1469.334	1509.095	62.671
1386	1464.821	1477.985	67.161
1387	1453.653	1464.289	68.911
1388	1445.759	1462.743	70.201
1389	1408.130	1484.992	75.825
1390	1395.613	1493.317	78.349
1391	1374.047	1467.976	78.776
1392	1383.597	1454.770	78.171
1393	1394.360	1504.262	82.797
1394	1387.540	1510.049	83.544
1395	1388.314	1500.773	74.709
1396	1393.876	1504.122	74.677
1397	1381.739	1460.364	74.359
1398	1398.464	1492.416	69.420
1399	1394.691	1483.512	69.031
1400	1387.273	1493.747	69.375
1401	1397.853	1494.494	64.143
1402	1388.091	1493.799	64.074
1403	1393.885	1483.198	63.719
1404	1395.630	1483.294	58.500
1405	1398.203	1494.825	58.340
1406	1388.413	1491.910	58.485

Stompunkter i Långdalgruvan

Nr	X	Y	Z
1407	1382.322	1467.300	58.104
1408	1375.213	1462.625	57.908
1409	1388.251	1491.872	53.306
1410	1398.464	1493.493	53.870
1411	1394.018	1483.807	53.838
1412	1434.100	1468.348	60.086
1413	1428.478	1476.310	58.574
1414	1418.690	1474.711	56.804
1415	1395.244	1483.574	50.952
1416	1396.927	1494.458	50.476
1417	1379.372	1475.919	48.036
1418	1382.006	1464.041	47.975
1999	900.000	1000.000	0.000
2000	1000.000	1000.000	1.700
2001	1411.013	1629.930	47.013
2002	1451.329	1608.593	45.613
12061	1398.995	1851.109	0.001
12062	1399.218	1849.359	0.001
12063	1400.287	1836.389	0.001
12064	1399.382	1835.258	0.001
12065	1399.919	1817.590	0.001
12066	1400.161	1814.406	0.001
12067	1402.496	1797.606	0.002
12068	1407.417	1773.187	0.002
12069	1408.955	1755.521	0.003
120610	1413.586	1730.415	0.003
120611	1414.153	1718.186	0.004
120612	1387.805	1818.698	0.001
120613	1384.451	1750.601	0.003
941209	1442.596	1945.839	0.000
950105	1347.294	1726.183	10.335

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
1	1404.33	1614.15	10.56	50.0	350.5	66.05
3	1501.05	1685.64	-0.30	50.0	170.5	140.31
4	1496.23	1751.26	10.32	60.0	170.5	150.77
6	1486.07	1627.76	-0.16	60.0	170.5	150.06
7	1449.85	1541.99	-0.87	52.0	170.5	95.77
8	1431.89	1484.79	-5.48	60.0	170.5	110.20
9	1452.53	1516.30	-4.45	50.0	170.5	101.72
10	1446.68	1574.81	-0.37	60.0	170.5	74.85
11	1486.93	1655.05	0.17	60.0	170.5	159.00
12	1482.70	1716.34	10.01	60.0	170.5	156.75
13	1431.41	1454.65	-5.70	60.0	170.5	126.12
14	1471.50	1788.70	10.30	60.0	170.5	130.11
15	1440.10	1421.37	-8.63	60.0	170.5	150.00
16	1452.20	1843.80	10.40	62.0	190.0	115.19
17	1387.23	1399.65	-6.12	60.0	170.5	115.41
18	1393.48	1368.11	-8.61	60.0	170.5	117.32
19	1321.83	1305.68	9.43	40.0	170.5	100.62
21	1554.69	1588.70	-8.35	60.0	170.5	212.25
22	1533.50	1502.15	-8.22	60.5	170.5	236.12
23	1540.88	1677.93	-0.90	62.2	170.5	202.20
30	1511.10	1681.00	153.70	0.0	166.5	113.91
31	1450.90	1690.70	103.50	0.0	180.0	64.69
32	1449.30	1632.80	103.40	0.0	180.0	26.83
33	1448.00	1720.50	103.00	0.0	178.2	39.10
34	1449.40	1602.60	103.30	0.0	180.0	50.01
35	1448.10	1750.90	103.00	0.0	180.0	45.08
36	1449.60	1572.10	103.20	0.0	179.1	47.59
37	1509.50	1677.40	203.70	0.0	179.1	84.06
38	1464.60	1659.80	153.70	0.0	181.8	38.09
39	1446.80	1781.10	102.80	0.0	179.1	41.57
40	1444.20	1810.30	102.60	0.0	180.0	33.94
41	1459.40	1628.40	153.70	0.0	180.0	30.88
42	1464.47	1724.11	152.60	0.0	180.0	34.98
43	1452.50	1838.10	102.60	0.0	179.1	60.08
44	1456.30	1838.10	102.60	0.0	359.6	146.92
45	1464.40	1754.00	153.00	0.0	180.0	50.98
46	1459.50	1600.10	153.70	0.0	180.0	38.48
47	1452.60	1848.80	102.50	0.0	179.1	50.90
48	1465.40	1483.90	153.00	0.0	179.1	59.31
49	1464.40	1814.00	152.60	0.0	180.0	46.95
50	1464.20	1784.20	153.00	0.0	180.0	43.70
51	1461.20	1707.50	203.70	0.0	180.0	70.99
52	1459.40	1570.50	153.00	0.0	180.0	38.23
53	1460.20	1646.60	203.30	0.0	179.1	19.51
54	1450.80	1868.20	102.20	0.0	180.0	37.07
55	1508.00	1677.80	253.60	0.0	160.0	74.04
56	1463.20	1727.60	203.70	0.0	180.0	43.28
57	1460.20	1627.50	203.40	0.0	200.7	51.53
58	1467.50	1747.40	202.50	0.0	180.0	57.22
59	1471.50	1747.30	202.50	0.0	0.0	22.83

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
60	1461.20	1598.60	203.40	0.0	182.7	49.20
61	1474.40	1765.10	202.50	0.0	179.1	29.80
62	1480.50	1764.80	202.50	0.0	359.1	29.80
63	1469.10	1873.90	153.00	0.0	0.0	46.85
64	1469.10	1814.00	152.60	0.0	0.0	27.38
65	1469.10	1483.10	153.00	0.0	358.2	25.65
66	1456.70	1890.50	102.20	0.0	359.1	33.95
67	1451.00	1890.70	102.20	0.0	179.1	40.44
68	1482.40	1715.80	253.10	0.0	357.3	36.71
69	1477.10	1715.80	253.10	0.0	180.0	28.64
70	1469.50	1904.00	151.90	0.0	359.1	44.60
71	1457.20	1911.30	102.00	0.0	0.0	41.27
72	1463.40	1646.10	253.30	0.0	179.1	38.31
73	1468.80	1646.10	253.30	0.0	359.1	24.03
74	1474.60	1745.20	252.80	0.0	181.4	44.43
75	1479.30	1745.20	252.80	0.0	1.4	41.48
76	1465.40	1934.00	152.30	0.0	179.1	41.66
77	1470.10	1934.30	152.30	0.0	359.1	42.42
80	1476.70	1795.10	201.60	0.0	0.0	50.39
81	1471.10	1794.90	201.60	0.0	180.0	50.16
82	1477.50	1825.20	201.60	0.0	0.0	45.21
83	1471.50	1825.10	201.60	0.0	180.0	46.39
84	1480.00	1775.20	253.10	0.0	0.5	51.29
85	1475.00	1774.80	253.10	0.0	180.5	46.57
86	1468.60	1616.20	252.60	0.0	0.0	52.62
87	1463.20	1616.20	252.60	0.0	179.1	73.47
88	1449.00	1542.60	102.80	0.0	180.0	56.03
89	1479.40	1804.80	252.30	0.0	0.0	76.01
90	1474.20	1805.10	252.30	0.0	180.0	51.08
91	1465.00	1963.40	152.10	0.0	180.0	62.22
92	1470.00	1963.80	152.10	0.0	0.0	43.44
93	1448.20	1512.10	102.80	0.0	179.1	76.07
94	1478.50	1835.00	252.20	0.0	0.0	60.52
95	1469.50	1992.70	152.10	0.0	0.0	41.63
96	1447.20	1482.40	102.60	0.0	178.2	58.48
97	1479.30	1865.00	252.40	0.0	0.0	51.10
98	1477.40	1855.00	201.50	0.0	0.9	45.28
99	1453.80	1931.00	102.00	0.0	180.0	16.97
100	1457.80	1931.00	102.00	0.0	0.0	37.45
101	1476.80	1895.30	252.00	0.0	1.4	50.14
102	1463.10	2021.50	151.60	0.0	0.0	47.53
103	1477.10	1885.00	201.40	0.0	0.0	45.20
104	1480.30	1924.10	252.00	0.0	0.0	46.85
105	1447.10	1452.90	102.60	0.0	177.8	170.77
106	1441.50	1662.20	103.40	0.0	180.0	32.77
107	1464.40	1903.50	151.90	0.0	178.2	54.20
108	1465.00	1873.80	153.00	0.0	180.0	45.63
109	1476.50	1915.00	201.30	0.0	0.0	42.83
110	1489.10	1953.80	251.50	0.0	0.0	41.22
111	1456.80	2051.30	151.60	0.0	0.0	41.48

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
112	1489.40	1982.30	251.00	0.0	0.0	25.78
113	1445.80	1422.20	102.60	0.0	180.0	28.61
114	1475.80	1945.30	201.10	0.0	0.0	44.51
115	1446.50	1392.50	102.50	0.0	179.1	105.94
116	1457.40	2079.30	151.40	0.0	0.0	39.45
117	1460.20	1540.90	153.00	0.0	180.0	59.83
118	1446.00	1362.80	102.40	0.0	179.1	170.41
119	1475.70	1975.70	201.00	0.0	0.0	38.81
120	1490.30	2013.00	251.00	0.0	0.0	34.55
121	1485.20	2012.80	251.00	0.0	180.0	46.22
122	1457.00	2109.00	151.40	0.0	0.0	36.58
123	1452.30	2109.00	151.40	0.0	180.0	49.82
124	1475.30	2004.70	200.70	0.0	0.0	42.01
125	1446.00	1332.50	102.40	0.0	179.1	40.08
126	1458.50	1510.00	153.30	0.0	180.0	41.37
127	1470.50	2004.70	200.70	0.0	180.0	45.71
128	1483.70	2047.70	251.00	0.0	180.0	38.51
129	1489.40	2047.70	251.00	0.0	0.0	32.91
130	1518.20	1709.20	303.20	0.0	356.9	29.58
131	1513.00	1709.60	303.20	0.0	176.9	79.61
132	1456.00	1668.70	303.20	0.0	180.0	31.90
133	1522.20	1763.80	302.60	0.0	357.3	25.92
134	1516.50	1763.90	302.60	0.0	177.3	80.78
135	1481.30	2078.30	251.00	0.0	180.0	31.94
136	1485.70	2078.30	251.00	0.0	0.0	28.71
137	1522.70	1794.70	302.60	0.0	2.7	26.34
138	1517.40	1794.40	302.60	0.0	182.7	43.65
139	1475.50	2034.80	200.60	0.0	0.0	25.22
140	1470.70	2034.80	200.60	0.0	180.0	25.86
141	1475.50	2064.60	200.30	0.0	0.0	27.87
142	1471.20	2064.80	200.30	0.0	180.0	28.06
143	1517.20	1823.00	302.30	0.0	358.2	29.71
144	1510.80	1823.40	302.30	0.0	176.4	34.97
145	1510.10	1852.40	302.10	0.0	0.5	30.11
146	1504.80	1852.50	302.10	0.0	180.5	57.20
147	1480.30	2108.50	251.00	0.0	182.3	24.74
148	1485.30	2108.40	251.00	0.0	2.3	27.39
149	1484.80	1982.30	251.00	0.0	180.0	25.06
150	1515.60	1739.80	303.00	0.0	176.4	80.60
151	1508.20	1882.20	302.00	0.0	0.5	28.03
152	1453.40	1640.00	303.20	0.0	178.2	42.84
153	1452.40	1609.50	303.00	0.0	180.0	36.44
154	1509.40	1912.50	301.40	0.0	0.0	25.94
155	1504.30	1912.50	301.40	0.0	180.0	27.13
156	1454.50	1580.20	302.30	0.0	179.1	48.97
157	1506.40	1945.00	301.40	0.0	180.0	25.25
158	1509.40	1944.80	301.40	0.0	0.0	32.95
159	1471.30	2004.00	301.00	0.0	359.1	50.51
160	1465.80	2004.20	301.00	0.0	180.0	20.40
161	1483.10	1973.50	301.00	0.0	358.7	45.03

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
162	1459.70	2035.10	300.40	0.0	1.4	56.89
163	1474.00	2086.50	200.30	0.0	0.0	30.63
164	1470.40	2086.50	200.30	0.0	180.0	39.41
165	1453.40	2065.80	300.30	0.0	358.2	117.06
166	1520.20	1696.70	353.70	0.0	178.2	99.90
167	1524.40	1696.80	353.70	0.0	359.1	22.03
168	1446.50	2095.80	300.10	0.0	0.0	68.03
169	1448.20	2156.20	300.00	0.0	357.3	60.97
175	1582.30	1659.50	-9.80	90.0	0.0	29.00
177	1515.50	1675.60	403.54	0.0	0.0	50.07
178	1508.40	1676.40	402.88	0.0	62.6	76.55
179	1514.90	1725.90	403.30	0.0	36.0	35.41
180	1505.90	1759.90	402.47	0.0	1.1	39.92
181	1504.50	1800.10	402.80	0.0	359.6	35.10
182	1504.00	1840.40	402.80	0.0	359.6	39.30
183	1504.27	1879.62	403.40	0.0	1.1	41.01
184	1500.36	1878.86	403.40	0.0	181.0	50.14
185	1509.80	1715.30	353.50	0.0	0.0	24.25
186	1505.40	1714.40	353.50	0.0	179.1	40.48
187	1500.01	1919.90	402.70	0.0	0.0	41.74
188	1506.50	1739.40	353.50	0.0	0.0	44.24
189	1458.60	1639.90	303.24	0.0	356.4	60.08
190	1497.00	1959.60	402.28	0.0	2.7	48.08
191	1492.80	1959.60	402.44	0.0	179.1	50.05
192	1512.20	1778.80	352.91	0.0	1.4	29.50
193	1457.60	1609.00	302.97	0.0	1.4	60.19
194	1458.50	1580.80	302.32	0.0	2.7	51.61
195	1510.20	1799.80	352.91	0.0	1.8	30.26
196	1493.60	2000.00	402.50	0.0	1.8	41.97
197	1465.60	1598.90	203.40	0.0	0.9	52.96
198	1470.70	1945.30	201.10	0.0	180.0	36.88
199	1510.00	1819.20	352.80	0.0	358.2	31.58
200	1471.30	1886.10	201.40	0.0	178.2	50.69
201	1451.30	2050.30	151.60	0.0	178.2	50.18
202	1460.60	1481.00	152.80	0.0	180.0	50.21
203	1451.30	1332.50	102.40	0.0	0.9	50.15
204	1451.50	1392.00	102.50	0.0	0.9	50.00
205	1509.80	1840.70	352.60	0.0	1.0	30.33
206	1452.00	1452.20	102.60	0.0	356.4	40.96
207	1511.50	1860.00	352.60	0.0	0.9	30.23
208	1453.60	1542.80	103.21	0.0	1.8	50.19
209	1454.30	1602.10	103.53	0.0	2.7	27.02
210	1510.00	1899.00	352.90	0.0	5.4	31.13
211	1506.70	1898.40	352.98	0.0	180.0	50.90
212	1475.00	1924.00	252.23	0.0	180.0	50.60
213	1472.60	1865.00	252.38	0.0	180.9	50.90
214	1468.40	1570.00	252.70	0.0	0.5	41.73
215	1464.30	1569.80	252.67	0.0	180.5	79.20
216	1503.80	1630.00	402.85	0.0	0.0	60.22
217	1491.80	1920.00	352.90	0.0	0.0	40.12

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
218	1491.80	1920.00	352.90	0.0	58.5	39.76
219	1487.00	2079.60	402.30	0.0	359.6	40.40
220	1483.50	2079.60	402.30	0.0	181.4	52.91
221	1509.10	1720.20	401.99	-47.0	0.0	31.61
222	1504.40	1708.70	403.32	0.0	0.0	21.31
223	1501.40	1708.70	403.33	0.0	180.0	21.40
224	1503.80	1740.00	402.01	-47.0	0.0	30.49
225	1511.40	1687.90	303.27	0.0	180.0	81.32
226	1503.80	1740.00	403.29	0.0	358.2	20.30
227	1511.40	1687.90	302.39	-25.0	180.0	79.23
228	1493.30	1665.20	301.35	-35.0	176.2	60.24
229	1512.80	1709.10	302.55	-25.0	180.0	79.15
230	1513.20	1709.60	304.06	57.0	176.0	29.87
231	1480.25	1959.90	352.81	-3.4	359.0	49.75
232	1515.00	1729.50	302.58	-23.0	172.0	45.70
233	1459.30	1640.30	301.84	-53.0	0.0	45.20
234	1500.50	1920.20	403.33	43.0	0.0	62.10
235	1497.00	1959.60	403.04	42.0	356.0	60.32
236	1490.80	2040.00	402.01	0.0	5.4	40.32
237	1505.60	1699.60	354.29	49.0	353.0	30.20
238	1510.70	1714.30	354.31	47.0	358.9	31.28
239	1507.30	1739.50	354.26	48.0	0.0	35.48
240	1507.30	1739.50	351.57	-55.0	0.0	30.08
241	1510.50	1779.40	354.15	50.0	2.7	30.59
242	1512.10	1779.50	351.10	-53.0	0.0	30.53
243	1510.30	1799.80	354.09	47.0	356.4	30.90
244	1510.00	1800.50	351.11	-51.0	2.0	30.81
245	1509.10	1759.40	353.03	0.0	357.3	30.75
246	1509.20	1760.20	351.52	-51.0	356.0	31.59
247	1509.00	1759.50	354.00	48.0	356.0	30.64
248	1510.00	1819.20	354.03	48.0	2.0	35.46
249	1510.00	1819.20	351.69	-42.0	358.0	30.48
250	1509.80	1840.70	351.45	-42.0	1.0	35.84
251	1510.40	1860.00	351.21	-50.0	3.6	35.22
252	1510.00	1879.85	352.59	0.0	3.6	25.00
253	1499.70	1682.80	353.91	0.0	180.9	80.21
254	1489.40	1982.50	250.50	-52.0	0.0	30.00
255	1486.50	1958.60	250.62	-43.0	3.0	30.00
256	1504.40	1720.00	404.20	44.0	358.2	20.12
257	1504.40	1729.90	404.28	43.0	4.5	25.00
258	1492.80	1655.10	353.54	0.0	178.2	30.02
259	1481.40	1940.60	251.02	-48.0	358.0	41.00
260	1511.60	1688.00	304.38	27.0	180.0	40.67
261	1512.00	1687.80	304.47	50.0	180.0	50.67
262	1477.50	1919.90	251.33	-37.0	356.0	50.40
263	1512.90	1709.20	303.88	28.0	176.0	40.61
264	1478.20	1895.30	251.17	-38.0	5.5	50.05
265	1475.30	1882.15	251.94	-33.0	1.0	55.05
266	1523.70	1659.40	354.34	24.0	179.0	56.20
267	1475.30	1854.50	251.91	-33.0	3.0	50.35

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
268	1475.48	1840.98	252.17	-34.0	0.0	50.50
269	1521.60	1679.50	354.33	38.0	187.0	43.28
270	1476.00	1819.10	251.88	-36.0	0.0	50.45
271	1485.40	1634.60	353.45	0.0	176.4	37.17
272	1477.10	1799.60	251.75	-38.0	0.0	50.25
273	1459.90	1494.80	152.99	0.0	180.0	30.00
274	1460.00	1525.00	153.33	0.0	181.8	30.55
275	1460.50	1480.00	152.09	-48.0	172.8	50.21
276	1460.50	1480.00	153.72	45.0	178.2	45.60
277	1462.50	1459.60	152.90	0.0	358.2	30.25
278	1460.00	1459.60	152.92	0.0	179.1	59.80
279	1462.10	1419.40	153.20	0.0	0.0	30.35
280	1461.80	1380.00	152.99	0.0	0.5	30.10
281	1459.60	1419.40	153.20	0.0	179.6	60.98
282	1499.70	1678.50	403.50	0.0	178.2	40.02
283	1501.00	1659.50	403.75	0.0	181.8	40.07
284	1493.60	2000.00	403.14	44.0	7.0	60.01
285	1490.80	2040.00	403.11	44.0	3.0	60.03
286	1500.60	1640.00	404.27	29.0	184.1	50.20
287	1487.00	2079.60	402.95	43.0	0.0	60.05
288	1518.80	1661.20	409.01	29.0	180.0	56.36
289	1504.50	1879.40	403.69	44.0	2.0	60.01
290	1504.30	1840.50	403.79	44.0	0.0	60.81
291	1510.90	1639.80	354.28	33.0	179.0	46.43
292	1461.40	1500.00	203.52	0.0	180.9	32.64
293	1461.50	1479.90	203.35	0.0	180.9	31.43
294	1459.90	1584.50	153.69	0.0	180.0	29.93
295	1500.80	1649.70	454.46	0.0	181.8	30.01
296	1504.00	1649.50	454.50	0.0	1.8	20.87
297	1500.80	1640.00	403.67	0.0	184.1	30.01
298	1461.50	1460.00	203.27	0.0	180.0	30.08
299	1500.40	1649.00	454.49	0.0	223.2	30.01
300	1502.00	1659.30	454.44	0.0	180.0	59.65
301	1501.00	1695.00	403.70	0.0	180.0	55.87
302	1474.60	1684.00	253.55	0.0	192.6	50.56
303	1461.00	1440.00	203.54	0.0	182.7	30.00
304	1478.93	1775.28	251.53	-42.0	359.2	50.19
305	1477.30	1759.50	253.06	0.0	0.5	40.70
306	1474.00	1684.60	253.57	0.0	184.5	45.29
307	1500.60	1619.80	403.36	0.0	180.0	25.49
308	1471.60	1594.80	402.79	0.0	317.5	51.31
309	1484.50	1619.90	353.58	0.0	358.2	20.87
310	1518.60	1708.60	354.14	35.0	199.8	61.18
311	1500.80	1667.30	454.50	0.0	180.0	35.00
312	1503.50	1798.00	403.85	44.0	2.3	61.16
313	1451.46	1619.14	103.62	0.0	179.9	53.43
314	1455.00	1679.60	243.14	0.0	182.7	21.25
316	1490.50	1649.40	393.10	0.0	178.2	15.04
317	1491.40	1639.80	393.46	0.0	180.0	18.02
318	1493.00	1629.40	393.25	0.0	180.0	20.76

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
319	1490.50	1649.60	392.37	-37.0	178.2	19.79
320	1491.40	1639.80	392.56	-33.0	184.5	20.34
321	1493.00	1629.40	392.25	-35.0	175.5	13.87
322	1452.60	1489.50	192.80	0.0	176.4	25.71
323	1453.40	1489.50	191.48	-34.0	179.1	25.72
324	1450.30	1479.20	193.10	-35.0	196.2	22.64
325	1450.30	1479.20	192.04	0.0	197.1	21.09
326	1456.40	1660.00	243.02	0.0	177.3	24.68
327	1452.80	1477.00	191.98	0.0	205.2	25.71
328	1452.80	1477.00	193.03	-35.0	203.4	27.25
329	1462.50	1660.10	242.75	0.0	1.8	9.68
330	1464.50	1639.70	242.51	0.0	0.9	10.20
331	1465.40	1629.80	242.62	0.0	2.7	10.20
332	1465.40	1629.40	241.60	-36.0	7.2	12.79
333	1465.30	1647.70	242.74	0.0	358.2	9.89
334	1463.00	1659.90	241.98	-35.0	1.8	12.05
335	1463.50	1680.10	242.85	0.0	359.1	9.74
336	1463.00	1690.00	242.86	0.0	348.3	10.29
337	1460.00	1440.00	152.94	0.0	180.9	200.02
338	1465.00	1700.50	242.80	0.0	348.3	10.08
339	1468.00	1711.50	242.82	0.0	346.5	20.18
340	1454.20	1701.50	243.02	0.0	171.0	19.63
341	1452.00	1690.60	242.80	0.0	182.7	19.54
342	1463.00	1670.60	242.98	0.0	3.2	11.04
343	1453.40	1670.50	242.84	0.0	183.2	24.94
344	1479.30	1595.00	402.32	-28.0	336.6	23.86
345	1459.40	1380.40	152.90	0.0	180.0	40.32
348	1457.10	1711.70	243.00	0.0	163.8	26.89
349	1457.10	1711.70	242.26	-35.0	167.4	30.69
350	1478.20	1598.70	393.44	0.0	352.8	25.71
351	1478.20	1598.70	392.54	-33.0	357.3	21.09
352	1454.20	1701.50	242.30	-35.0	168.3	29.01
353	1477.80	1599.60	392.54	-24.0	49.5	21.09
354	1477.40	1597.60	392.45	-34.0	308.7	34.95
355	1477.40	1597.60	393.55	0.0	299.7	25.71
357	1459.50	1720.90	242.82	0.0	172.8	20.32
358	1459.50	1720.50	242.30	-35.0	172.8	25.69
359	1487.60	1659.90	393.11	0.0	178.2	14.93
360	1487.60	1659.90	392.20	-33.0	178.2	19.93
361	1488.50	1669.70	393.03	0.0	167.4	10.31
362	1488.50	1669.70	392.00	-35.0	163.8	14.93
363	1461.90	1731.70	243.03	0.0	167.4	20.24
364	1461.90	1731.70	242.48	-35.0	170.1	25.24
365	1477.70	1599.60	353.46	0.0	0.9	30.33
366	1464.90	1741.00	243.00	0.0	168.3	20.24
367	1464.90	1741.00	242.74	-35.0	169.2	25.54
368	1479.50	1735.90	243.26	0.0	334.8	19.54
369	1473.40	1728.20	242.79	0.0	336.6	20.29
370	1469.40	1719.50	242.54	0.0	355.5	21.04
371	1456.00	1620.00	453.04	0.0	0.0	59.50

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
372	1508.70	1671.70	454.52	0.0	162.0	34.95
373	1456.30	1618.60	452.95	0.0	333.0	70.38
374	1451.70	1620.00	452.89	0.0	180.0	87.31
375	1456.00	1620.00	453.61	70.0	359.1	99.22
376	1453.70	1619.60	453.01	58.0	53.0	116.30
377	1454.60	1617.80	453.90	60.0	314.0	120.00
378	1462.37	1580.39	203.75	0.3	182.4	51.87
379	1462.02	1540.35	203.61	-0.7	178.6	51.87
380	1465.49	1440.41	203.46	-1.4	2.8	27.23
381	1471.66	1779.74	202.47	0.0	180.0	25.71
382	1473.97	1779.72	202.42	0.0	0.0	21.09
383	1473.89	1810.07	202.28	0.0	1.8	34.95
384	1471.53	1809.97	202.35	0.0	181.8	27.25
385	1477.94	1775.31	253.84	40.0	1.8	54.97
386	1476.86	1800.13	253.39	33.0	1.8	65.75
387	1475.98	1819.40	253.04	30.0	1.8	65.75
388	1475.48	1840.98	253.00	30.0	1.8	65.75
389	1462.25	1560.03	203.74	-1.5	182.6	51.89
390	1461.81	1520.18	203.67	2.5	183.4	51.89
391	1455.05	1670.12	237.05	37.3	179.0	24.74
392	1454.99	1670.10	236.37	0.0	180.0	20.66
393	1475.95	1854.53	253.41	28.7	2.3	65.75
394	1475.54	1880.11	253.42	31.6	0.1	65.75
395	1462.19	1540.00	204.08	43.5	179.4	50.83
396	1461.95	1520.23	204.20	54.8	185.5	50.07
397	1461.40	1500.00	204.02	53.0	180.0	50.10
398	1461.50	1476.50	203.85	43.0	176.4	50.10
399	1461.80	1459.50	202.60	41.0	180.0	50.26
400	1460.28	1540.42	154.12	56.1	182.2	40.22
401	1459.98	1519.88	154.08	55.1	175.2	41.12
402	1475.38	1900.08	253.32	35.3	356.7	54.97
403	1476.22	1920.22	252.93	37.9	358.1	50.36
404	1481.40	1940.58	252.96	51.5	356.7	50.36
405	1450.10	1678.80	231.70	0.0	188.1	25.00
406	1450.10	1678.80	232.40	-33.0	188.1	25.03
407	1486.16	1958.74	252.96	62.6	354.8	41.12
408	1487.68	1979.50	252.75	64.0	10.0	40.29
409	1448.50	1690.90	232.34	-37.0	177.3	19.81
410	1451.00	1700.40	232.36	-35.0	178.2	19.70
412	1450.40	1474.70	174.40	-29.0	229.5	30.34
413	1450.40	1474.70	174.40	-35.0	198.0	25.73
415	1475.25	1765.32	203.45	58.4	170.8	30.34
416	1471.54	1780.87	203.27	59.3	182.2	30.34
417	1471.42	1795.60	202.66	57.4	183.6	30.34
418	1458.42	1637.10	203.36	0.0	180.1	200.46
419	1472.24	1596.92	403.72	50.7	9.2	50.37
420	1473.71	1840.66	200.42	-54.6	1.5	45.75
421	1473.25	1976.45	202.23	36.3	3.6	41.12
422	1473.88	2000.97	201.84	54.0	0.9	41.12
423	1473.35	2021.13	202.15	59.3	359.4	34.97

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
424	1473.34	2041.37	202.09	59.4	0.4	34.97
425	1471.70	1749.00	221.19	-1.1	357.5	34.97
426	1462.99	1610.16	203.57	-0.9	181.2	14.93
427	1503.82	1860.01	401.89	-48.2	359.3	34.97
428	1503.84	1879.47	401.44	-59.1	356.6	39.58
429	1500.78	1898.77	351.72	-47.6	0.1	45.75
430	1508.86	1874.79	350.52	-61.8	35.4	45.75
431	1445.00	2139.30	300.81	50.0	0.5	101.17
432	1473.03	1760.20	201.01	-69.2	352.3	34.97
433	1473.57	1781.11	200.61	-68.7	350.8	34.97
434	1473.26	1798.16	200.67	-64.3	356.6	34.97
435	1473.60	1820.48	200.56	-54.5	354.6	54.99
436	1473.56	1859.36	200.47	-51.1	359.6	54.99
437	1473.91	1869.14	201.92	-1.0	359.4	34.97
438	1473.43	1879.82	200.38	-50.4	356.6	50.37
439	1473.47	1899.60	200.31	-54.4	2.8	41.12
440	1473.21	1920.09	200.17	-53.7	359.9	41.12
441	1473.18	1940.48	199.92	-51.6	3.2	41.12
442	1473.14	1960.03	199.89	-50.5	3.5	41.12
443	1473.08	1980.48	199.92	-53.3	354.1	41.12
444	1481.47	2010.90	241.42	-2.8	166.3	8.31
445	1490.38	2009.41	240.90	-0.9	354.5	9.85
446	1492.00	1995.51	240.82	1.1	191.0	9.85
447	1491.10	1667.61	304.50	38.6	179.3	25.73
448	1460.24	1560.26	152.52	-40.7	179.1	59.61
449	1460.30	1540.50	152.35	-41.4	179.2	59.61
450	1461.22	1519.79	152.15	-45.0	179.7	54.99
451	1460.86	1499.31	151.78	-44.7	176.7	54.99
452	1475.97	1766.52	251.64	-54.4	343.4	44.21
453	1477.11	1766.46	253.77	35.0	350.3	56.53
454	1482.16	2022.24	241.19	0.9	1.2	15.46
455	1480.22	2032.70	240.76	-1.6	359.0	14.62
456	1481.73	1695.75	319.48	0.7	199.5	16.16
457	1482.36	1699.74	319.36	-1.0	183.1	11.67
458	1484.07	1709.59	319.71	1.0	175.7	12.44
459	1477.15	1672.87	319.55	1.9	151.3	16.16
460	1477.35	2032.91	240.78	-1.5	177.2	10.13
461	1480.37	2040.00	240.51	-0.9	5.8	14.62
462	1475.51	2039.46	240.46	-1.5	191.8	10.13
463	1477.00	2049.59	240.25	-2.3	4.0	10.13
464	1473.26	2049.40	240.22	-1.3	184.8	10.13
465	1466.61	1538.58	253.63	-1.1	180.8	39.58
466	1468.57	1518.89	253.79	-0.6	182.6	39.58
467	1470.18	1498.81	253.63	-1.4	184.6	50.37
468	1473.67	1499.07	253.54	-0.9	3.5	25.73
469	1527.25	1552.69	402.50	2.0	205.5	50.86
470	1527.20	1552.64	403.21	45.0	202.8	56.37
471	1520.09	1569.28	403.33	55.0	180.0	46.93
472	1473.75	1461.44	253.51	0.8	179.7	52.02
473	1470.00	1665.00	104.50	75.0	77.1	79.61

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
474	1471.88	1479.99	253.29	0.0	180.4	36.84
475	1475.36	1440.03	253.23	0.0	181.9	44.00
476	1477.48	1420.04	253.13	-0.8	179.0	41.30
477	1481.47	1420.04	253.15	0.0	357.6	26.18
478	1460.07	1580.06	152.19	-42.9	180.6	53.60
479	1457.90	1490.76	152.69	-15.7	180.1	30.92
480	1460.20	1480.63	152.36	-16.1	181.4	35.00
481	1460.34	1469.39	152.59	-14.2	182.6	34.71
482	1459.87	1459.39	152.54	-15.1	181.6	35.53
483	1465.27	1780.29	151.50	-50.0	171.2	67.14
484	1465.23	1780.29	153.70	65.6	171.3	40.70
485	1464.67	1800.24	151.04	-44.9	180.9	50.37
486	1464.78	1800.68	152.64	0.0	175.5	41.30
487	1464.90	1800.65	153.54	55.5	176.8	48.77
488	1465.34	1820.26	153.48	45.4	178.5	44.90
489	1464.95	1820.33	151.20	-40.9	180.6	61.41
490	1464.94	1839.15	151.02	-39.1	179.5	65.33
491	1494.66	1766.42	290.71	-9.5	45.9	18.54
492	1494.66	1766.42	290.71	-28.5	45.9	49.83
493	1494.85	1765.46	290.60	-23.6	10.5	40.47
494	1494.83	1765.16	289.96	-35.6	321.3	45.37
495	1485.87	1722.32	285.34	-24.7	3.8	32.73
496	1488.05	1740.64	280.66	-20.3	5.1	35.02
497	1456.90	2079.24	152.49	46.5	358.6	45.70
498	1484.01	1653.85	254.73	36.7	180.7	26.57
499	1483.93	1653.80	254.26	25.0	178.5	36.00
500	1478.84	1639.72	254.32	24.3	178.6	27.70
501	1453.86	2059.96	152.55	48.2	358.1	33.53
502	1456.20	2040.07	152.33	33.3	0.3	42.50
503	1456.06	2040.13	151.90	0.5	0.5	25.32
504	1469.38	1977.11	152.06	-0.2	358.9	25.15
505	1469.63	1950.21	152.03	0.8	0.0	25.83
506	1469.49	1920.20	152.30	0.1	1.0	20.27
507	1469.44	1890.02	152.28	-1.9	359.3	31.09
508	1468.85	1859.21	152.61	-1.9	358.1	40.40
509	1465.41	1859.16	151.20	-39.6	183.1	65.55
510	1465.41	1859.19	152.46	-2.2	180.3	36.00
511	1465.45	1859.16	153.39	44.9	178.4	46.89
512	1460.57	1840.04	153.32	43.8	179.1	45.72
513	1465.55	1830.50	153.30	45.7	180.4	45.07
514	1465.36	1820.27	153.47	46.8	178.8	46.63
515	1465.41	1828.75	152.49	1.5	179.7	36.59
516	1465.67	1770.83	151.22	-50.0	180.0	60.30
517	1464.47	1740.62	153.02	-0.3	179.7	40.51
518	1394.90	2024.95	8.93	60.0	342.0	184.05
519	1455.71	1606.44	-0.86	52.0	171.0	75.60
520	1434.03	1577.51	-0.49	56.0	171.0	58.05
521	1424.04	1578.83	0.07	51.0	171.0	43.80
522	1941.94	1247.63	-28.00	79.9	205.7	916.45
523	1433.57	1592.83	-0.52	53.0	171.0	55.70

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
524	1459.95	1626.46	-0.72	53.0	171.0	78.50
525	1410.95	1555.57	-0.08	50.3	171.0	48.50
526	1447.45	1436.23	-8.15	60.0	171.0	66.10
527	1447.21	1452.14	-8.25	50.0	171.0	59.35
528	1451.59	1498.41	-4.73	50.0	171.0	99.45
529	1445.57	1470.19	-6.67	52.0	171.0	59.70
530	2051.82	2296.85	7.56	81.6	194.9	988.40
531	2051.05	2297.09	7.57	81.8	167.6	355.40
532	1465.69	1448.98	-8.20	55.0	171.0	82.10
533	1454.31	1481.05	-5.50	55.0	171.0	94.75
534	1454.65	1588.14	-0.16	50.0	171.0	82.10
535	1386.86	1528.18	0.43	45.0	351.0	91.40
536	1429.66	1631.05	8.02	53.0	167.0	62.90
537	1470.85	1981.33	287.56	-3.0	359.2	35.55
538	1459.53	1615.09	153.04	-2.0	180.0	26.12
539	1460.20	1640.07	153.25	-0.7	179.5	30.14
540	1482.10	2012.89	290.24	-39.2	24.3	40.40
541	1488.19	1999.32	290.31	-36.1	1.2	31.70
542	1795.40	2569.20	-16.00	76.5	208.4	852.10
543	1473.70	1460.31	251.90	-25.6	181.0	40.80
544	1462.04	1490.00	202.84	-1.0	180.2	26.15
545	1471.96	1480.21	251.82	-27.2	180.6	37.55
546	1472.62	1480.30	251.12	-52.8	178.8	36.00
547	1470.13	1500.09	251.80	-28.3	180.6	31.90
548	1461.79	1499.84	203.71	30.5	181.7	27.41
549	1468.87	1520.03	251.24	-42.8	179.1	25.80
550	1467.00	1539.92	251.55	-40.3	181.5	34.80
551	1462.01	1509.95	202.92	0.1	179.6	20.50
552	1473.84	1460.36	253.71	34.7	179.1	45.45
553	1472.14	1479.24	254.09	44.0	179.4	60.50
554	1462.26	1470.03	202.79	-2.3	180.2	35.95
555	1461.89	1484.13	203.34	19.4	179.2	40.30
556	1461.87	1450.82	202.64	-0.7	180.0	35.93
557	1462.03	1463.95	203.09	14.2	178.5	40.40
558	1462.31	1490.03	204.07	50.3	180.5	15.45
559	1462.34	1469.99	203.64	37.0	178.9	20.05
560	1472.78	1470.01	251.41	-32.9	178.7	45.15
561	1472.72	1470.01	252.89	0.5	181.2	34.85
562	1474.41	1450.03	253.09	-0.1	179.0	35.10
563	1470.97	1490.16	252.97	0.7	180.5	35.75
564	1470.89	1490.10	251.40	-33.7	178.9	45.40
565	1460.27	1560.26	153.45	10.1	177.7	42.23
566	1469.57	1507.22	253.02	1.6	182.2	25.70
567	1460.07	1650.15	153.70	10.2	177.8	40.43
568	1382.66	1983.73	283.29	20.2	54.4	321.00
569	1446.44	1600.10	173.37	-18.4	173.4	11.16
570	1454.89	1599.08	173.45	-22.6	353.5	11.00
571	1451.99	1620.06	172.58	-17.7	0.2	11.00
572	1445.99	1620.06	172.71	-19.6	181.4	10.15
573	1447.90	1635.12	172.76	-18.7	182.7	10.74

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
574	1453.29	1635.19	172.60	-23.6	1.4	10.60
575	1447.67	1649.44	172.61	-20.1	180.8	10.40
576	1452.58	1649.92	172.63	-20.6	0.5	10.80
577	1459.93	1592.10	153.21	7.8	184.3	36.90
578	1470.18	1500.13	253.85	37.1	183.0	35.65
579	1468.35	1520.23	253.97	37.6	181.1	36.21
580	1382.16	1983.00	283.68	54.9	63.4	373.30
581	1474.47	1450.65	253.58	37.5	179.7	54.60
582	1427.96	1960.94	101.54	-0.2	0.4	51.00
583	1427.96	1960.97	102.13	30.0	0.5	60.85
584	1427.69	1980.71	101.30	-0.7	0.6	97.90
585	1427.63	1980.71	101.85	29.3	1.0	66.80
586	1429.00	2000.19	101.10	-1.0	0.7	60.80
587	1427.55	2019.58	100.94	-0.5	359.7	46.85
588	1460.15	1600.25	151.50	-38.9	179.8	41.65
589	1427.69	2019.59	101.59	34.2	0.8	59.90
590	1496.80	3044.13	-25.03	75.8	227.1	642.75
591	1426.22	2040.00	100.58	-1.1	0.2	77.50
592	1426.30	2040.02	101.27	35.3	0.7	65.85
593	1459.85	1619.92	151.85	-31.9	179.2	35.76
594	1437.59	2071.31	100.39	0.2	140.0	60.45
595	1444.48	2066.78	101.34	25.3	34.8	219.50
596	1460.16	1640.14	151.66	-35.7	179.4	37.00
597	1382.14	1982.94	283.74	60.0	47.3	450.70
598	1439.96	2060.26	101.02	30.7	360.0	55.00
599	1439.82	2060.26	100.49	-0.2	359.9	50.50
600	1426.49	2019.58	99.34	-49.7	359.2	55.40
601	1428.32	2000.15	99.60	-40.7	359.9	65.00
602	1492.08	2029.89	286.11	-34.9	190.1	25.60
603	1427.03	1990.12	101.14	0.2	359.3	60.55
604	1491.75	2038.08	285.59	-29.8	180.2	31.60
605	1427.51	1980.68	99.67	-45.1	1.5	65.30
606	1427.25	1961.04	99.70	-50.6	1.9	60.00
607	1429.26	1946.43	101.89	-0.8	360.0	51.65
608	1492.42	2039.35	285.83	-28.3	148.2	35.01
609	1491.84	2019.36	285.85	-33.4	188.2	26.51
610	1493.68	2009.06	286.06	-35.4	191.3	26.33
611	1383.10	1980.64	284.20	66.6	358.0	400.50
612	1474.87	1989.46	285.09	-34.6	29.9	28.70
613	1466.28	1661.20	152.56	-26.1	176.2	45.73
614	1470.31	1839.77	152.51	-48.7	360.0	40.15
615	1460.48	1680.16	152.96	0.4	179.7	50.00
616	1480.26	2035.99	285.74	-29.9	44.2	36.05
617	1480.32	2035.43	285.72	-37.4	17.8	25.40
618	1377.09	1980.67	282.97	24.8	179.4	424.00
619	1480.97	2030.38	286.27	-35.4	7.1	25.90
620	1484.88	2008.72	286.27	-35.1	13.7	25.20
621	1462.72	1879.87	148.14	-32.3	2.3	51.60
622	1463.49	1860.62	149.63	-39.0	359.6	40.50
623	1460.91	1858.75	149.86	-40.8	316.9	51.75

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
624	1461.87	1899.99	146.77	-38.6	358.5	45.25
625	1460.96	1710.13	153.08	6.1	180.8	46.40
626	1382.71	1978.99	284.30	54.8	313.0	400.55
627	1456.54	1619.74	453.47	31.9	2.5	70.50
628	1469.26	1630.80	454.09	43.4	11.5	85.30
629	1460.44	1779.98	10.27	50.0	180.0	91.40
630	1477.50	1880.88	10.78	59.9	182.3	110.50
631	1465.94	1817.80	11.22	51.0	180.0	82.10
632	1486.66	1449.20	301.53	-1.3	182.2	56.55
633	1467.35	1632.75	454.04	43.7	53.5	137.75
634	1451.68	1920.54	146.53	-21.1	358.4	42.40
635	1451.45	1920.60	145.62	-44.8	359.4	51.75
636	1486.72	1449.21	300.65	-20.7	179.4	56.65
637	1487.76	1459.28	301.91	2.2	181.8	134.15
638	1487.73	1459.39	301.47	-20.2	181.4	56.05
639	1486.55	1469.29	302.11	0.0	180.9	62.20
640	1459.77	1460.10	151.53	-48.6	176.7	38.50
641	1486.60	1469.29	301.06	-29.0	180.4	65.35
642	1485.92	1479.56	302.23	0.0	179.6	61.50
643	1485.86	1479.50	301.61	-15.6	181.4	59.05
644	1487.35	1489.68	302.38	-1.1	180.7	51.80
645	1487.15	1489.62	301.07	-33.6	180.3	72.65
646	1487.94	1499.84	302.35	-2.3	181.8	57.00
647	1487.97	1499.91	301.47	-24.3	180.4	58.60
648	1487.37	1510.09	302.43	-1.0	178.4	57.40
649	1487.42	1510.13	301.27	-31.0	178.2	55.70
650	1486.48	1520.26	302.41	-1.3	179.2	52.00
651	1486.40	1520.30	301.31	-30.3	180.7	55.60
653	1482.41	1530.33	302.44	-1.2	180.4	42.35
654	1482.44	1530.42	300.97	-41.6	176.8	47.60
655	1476.65	1540.32	302.46	-0.8	180.1	41.80
657	1476.24	1540.34	300.47	-41.7	176.5	46.00
658	1471.85	1548.96	302.50	-0.1	179.8	39.80
659	1471.39	1548.98	300.56	-45.9	181.9	42.40
660	1484.68	1441.80	301.23	0.3	215.8	78.80
661	1484.67	1441.85	300.37	-26.7	214.7	85.80
662	1442.04	1940.58	144.56	-37.9	356.7	56.60
663	1441.81	1940.66	145.35	-19.8	359.4	56.90
664	1463.37	1778.66	143.58	13.2	197.1	47.50
665	1459.05	1799.83	140.58	12.4	182.3	55.65
666	1491.88	1459.41	301.92	0.1	1.4	76.00
667	1487.12	1449.09	302.27	27.6	181.3	61.30
668	1486.12	1479.89	302.96	29.6	179.2	73.15
669	1487.05	1519.53	303.29	30.2	181.8	60.60
670	1463.29	1778.74	142.56	-16.8	195.8	55.45
671	1491.68	1639.06	129.15	-10.9	180.4	65.15
672	1485.16	1619.28	126.53	-8.3	179.3	67.60
673	1482.80	1605.58	125.45	-10.9	182.6	51.30
674	1465.02	1776.33	142.95	-15.1	219.5	56.45
676	1478.86	1679.56	127.45	0.2	181.4	62.30

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
677	1476.05	1659.83	129.54	-9.1	185.8	52.60
678	1475.84	1579.69	121.75	-11.5	179.6	47.30
679	1450.52	1821.66	135.24	-30.1	359.1	36.00
680	1443.44	1821.73	135.82	-11.7	181.8	17.05
681	1438.57	1838.38	132.53	-29.5	356.7	37.85
682	1429.32	1858.77	129.61	-19.4	0.0	55.05
683	1475.89	1579.67	122.32	12.1	182.7	100.65
684	1460.68	1547.19	138.58	4.9	178.0	51.60
686	1469.46	1559.08	136.09	4.5	164.5	56.70
687	1485.22	1589.12	131.53	11.0	180.4	68.00
688	1446.03	1422.77	102.86	0.6	180.5	102.20
689	1447.45	1439.62	102.75	1.0	179.9	21.30
690	1448.24	1463.37	102.74	-0.2	180.4	50.25
691	1462.44	1620.63	101.55	-39.1	184.6	71.35
692	1423.72	1899.73	125.02	-8.6	359.2	66.60
693	1425.90	1879.95	126.84	-15.8	359.2	80.50
694	1486.57	1469.30	301.56	-15.3	183.0	61.00
695	1487.32	1489.61	301.91	-11.9	182.3	50.40
696	1466.83	1509.43	300.87	-29.0	179.7	30.20
697	1447.42	1460.36	52.64	50.7	182.7	40.00
698	1447.12	1460.25	51.53	-6.2	181.7	90.50
699	1447.33	1440.33	52.31	45.0	179.5	30.35
700	1447.16	1440.35	51.35	0.0	179.5	101.65
701	1446.59	1480.44	53.12	50.0	179.6	46.40
702	1446.27	1480.49	52.11	-1.1	179.6	90.80
703	1446.65	1499.32	53.25	43.8	179.6	47.40
704	1446.56	1520.41	53.22	33.9	180.8	73.05
705	1446.62	1539.42	53.51	45.7	172.2	55.30
706	1446.46	1538.98	52.57	-0.7	179.8	75.50
707	1446.53	1560.29	53.66	43.1	177.5	60.90
708	1446.29	1559.95	52.81	0.7	181.3	60.65
709	1445.82	1580.29	54.19	43.9	182.3	51.00
710	1445.80	1580.24	53.36	-0.3	179.8	52.10
711	1445.36	1600.34	54.43	43.3	178.6	41.40
712	1445.42	1599.75	53.43	1.0	179.9	70.00
713	1452.48	1619.17	53.97	0.0	179.7	41.10
714	1457.30	1619.17	53.84	0.8	359.7	36.00
715	1455.32	1638.32	53.87	-0.1	181.4	41.40
716	1462.08	1680.66	54.45	45.0	181.4	50.65
717	1461.63	1680.63	53.52	0.3	181.4	42.60
718	1462.11	1659.90	53.72	-1.1	182.3	52.05
719	1417.32	1980.04	49.73	0.0	0.0	47.80
720	1417.41	1960.21	50.37	0.0	0.0	44.70
721	1417.29	1941.00	51.31	27.7	1.2	70.35
722	1417.44	1940.10	50.66	0.0	0.0	62.75
723	1417.67	1920.01	51.48	28.2	0.4	70.25
724	1417.74	1920.38	50.72	-1.0	0.5	59.75
725	1417.50	2000.36	49.56	0.4	359.9	57.40
726	1417.53	2020.27	49.54	-3.9	359.3	55.00
727	1417.79	2040.26	49.03	0.6	0.2	55.25

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
728	1423.68	1899.63	52.10	36.7	359.1	65.40
729	1423.78	1899.75	51.37	-2.0	359.2	50.55
730	1438.81	1859.39	52.40	44.5	181.8	45.35
731	1438.59	1859.39	51.45	-2.6	180.0	41.75
732	1446.23	1840.24	51.79	-0.4	179.8	37.15
733	1458.30	1799.94	52.37	-3.2	180.0	56.05
734	1462.90	1799.88	52.34	-1.2	359.0	37.20
735	1458.83	1779.14	53.43	42.1	182.7	58.05
736	1459.70	1759.26	52.74	-0.6	180.7	52.00
737	1459.41	1739.45	53.84	44.2	182.0	67.00
738	1459.08	1739.54	53.01	-1.3	184.0	55.60
739	1459.99	1720.22	53.30	0.0	175.3	54.65
740	1464.60	1719.80	53.34	1.5	354.6	20.25
741	1465.24	1699.91	53.48	-1.8	353.6	20.30
742	1460.90	1700.33	53.31	-0.1	179.0	101.65
743	1646.29	1577.72	461.10	55.3	228.0	430.60
744	1646.32	1577.89	459.07	-20.6	228.2	320.00
745	1646.29	1581.20	461.04	50.6	120.5	320.60
746	1646.09	1577.49	461.04	45.1	229.3	444.43
747	1468.67	1739.68	125.08	-28.6	180.8	50.60
748	1461.99	1540.43	120.71	-13.1	178.1	50.00
749	1468.60	1558.02	119.22	-1.0	179.0	56.30
750	1468.73	1557.96	118.19	-29.6	183.2	67.25
751	1465.03	1720.51	127.69	5.5	123.4	29.10
752	1491.23	1506.59	110.04	-6.4	188.3	96.60
753	1493.53	1639.75	475.13	36.7	359.9	101.60
754	1494.07	1640.30	474.28	1.8	0.8	57.40
755	1490.74	1619.60	472.53	43.1	181.0	82.05
756	1510.80	1690.35	484.16	-0.6	28.7	71.00
757	1505.24	1693.00	483.86	-1.2	48.5	108.60
758	1510.91	1690.25	485.09	39.8	350.9	101.00
759	1493.76	1649.46	474.98	-0.4	355.4	26.40
760	1493.60	1658.81	476.82	24.0	0.6	111.20
761	1494.21	1618.84	472.33	43.8	352.4	126.80
762	1577.90	1586.86	460.54	-19.4	157.1	122.30
763	1577.93	1586.91	460.53	-21.6	144.2	132.00
764	1457.46	1819.88	52.13	-0.9	181.1	121.40
765	1441.89	1849.30	51.67	-0.9	179.9	110.20
766	1428.24	1880.02	51.64	0.2	179.6	100.10
767	1481.64	1762.98	110.79	4.7	179.8	71.00
768	1481.78	1762.73	108.66	-41.2	182.9	90.60
769	1578.32	1579.83	462.17	60.9	180.6	276.00
770	1489.39	1774.05	112.37	4.5	175.8	80.85
771	1488.97	1774.18	111.01	-26.2	177.2	91.00
772	1490.96	1776.83	112.20	-0.1	151.9	91.25
773	1487.75	1506.24	109.08	-21.6	183.1	110.70
774	1477.94	1519.29	107.63	1.5	178.9	70.40
775	1478.87	1679.45	126.31	-18.9	182.7	77.45
776	1471.52	1724.79	111.80	-40.3	189.2	52.70
777	1471.26	1724.82	113.25	-1.1	188.7	45.30

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
778	1475.23	1739.00	109.44	-31.0	182.2	61.10
779	1475.20	1759.80	108.55	-24.8	177.4	57.25
780	1479.06	1898.34	118.72	-42.3	308.3	47.00
781	1450.11	1481.09	101.95	-31.2	174.1	31.10
782	1464.29	1640.99	101.94	-36.0	176.9	70.00
783	1463.79	1640.96	104.23	17.2	179.9	26.35
784	1462.58	1539.82	104.09	-21.4	180.7	85.20
785	1462.73	1539.93	103.49	-38.0	184.1	95.00
786	1472.84	1730.05	111.55	-11.5	179.6	45.20
787	1476.00	1748.62	109.05	-5.0	180.0	47.40
788	1422.69	1920.08	105.40	-27.2	0.4	54.80
789	1427.65	1980.71	100.31	-22.2	355.1	44.50
790	1427.77	1960.98	100.57	-25.0	0.5	49.75
791	1431.58	1939.37	100.60	-35.8	18.3	44.50
792	1449.83	1810.62	102.76	0.7	0.0	41.50
793	1454.49	1679.60	101.36	-45.1	180.8	67.65
794	1468.36	1660.87	102.16	-24.8	174.7	72.85
795	1425.37	1879.97	124.80	-52.2	358.5	71.20
796	1517.27	1610.00	83.00	-5.3	181.4	127.20
797	1489.14	1579.78	88.82	-4.9	166.6	99.30
798	1472.24	1559.63	101.82	-25.7	177.2	100.00
799	1418.16	1899.82	50.95	0.3	179.9	51.05
800	1427.86	1880.94	52.22	35.0	180.0	62.15
801	1438.43	1860.33	51.99	20.0	180.0	40.00
802	1457.52	1820.30	52.86	36.6	179.7	72.80
803	1458.52	1800.06	52.99	24.4	176.8	51.90
804	1458.88	1779.86	53.15	20.3	177.9	52.80
805	1423.71	1899.89	122.64	-47.1	2.0	65.20
806	1504.34	1658.23	451.32	-49.1	1.1	20.65
807	1509.72	1657.31	451.59	-50.4	180.1	31.00
808	1510.80	1639.78	455.09	-45.8	181.6	30.15
809	1449.75	1572.10	103.03	-11.5	185.4	61.60
810	1449.88	1573.09	103.09	-10.9	164.3	60.15
811	1451.26	1555.06	102.91	-5.7	180.4	60.35
812	1488.40	1700.51	85.81	-5.9	181.2	76.05
813	1473.05	1740.87	89.15	-19.5	179.6	66.70
814	1463.43	1809.97	88.67	1.3	180.3	55.15
815	1460.44	1819.20	90.85	-3.2	180.1	56.60
816	1453.19	1837.72	92.41	-19.7	178.9	50.50
817	1449.20	1849.50	93.97	-14.4	159.2	41.50
818	1448.88	1851.86	93.91	-15.5	132.6	58.75
819	1489.14	1740.21	86.05	-25.7	180.0	50.10
820	1446.64	1500.39	52.37	9.6	180.3	51.95
821	1446.27	1520.38	52.87	19.9	179.8	67.20
822	1446.27	1520.38	51.44	-15.5	180.4	56.05
823	1461.87	1670.57	54.04	20.4	180.6	71.10
824	1452.73	1619.61	54.56	34.1	181.4	75.00
825	1795.40	2569.20	-16.00	76.5	208.4	653.00
826	1449.66	1943.43	280.00	-9.2	24.6	361.10
827	1418.61	1499.75	13.72	40.0	180.0	20.00

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
828	1398.62	1519.82	13.71	40.0	180.0	12.00
829	1404.65	1540.13	13.09	40.0	180.0	25.00
830	1407.80	1560.30	17.05	45.0	180.0	14.40
831	1444.00	1740.00	23.50	45.0	180.0	18.10
832	1398.29	1742.41	26.69	49.1	357.3	26.20
833	1448.71	1720.24	22.91	43.2	185.3	12.70
834	1407.96	1722.06	26.12	14.6	349.9	22.00
835	1443.68	1701.28	21.27	44.3	0.0	10.15
836	1431.34	1699.74	21.35	38.5	189.3	25.90
837	1441.39	1679.63	20.38	45.8	354.3	10.40
838	1423.09	1679.66	20.93	52.0	187.1	12.35
839	1443.37	1659.94	18.34	53.2	15.8	10.60
840	1429.74	1658.49	18.18	44.8	188.0	37.25
841	1411.58	1621.75	16.70	38.4	168.6	16.20
842	1431.81	1759.94	27.06	45.0	357.7	25.25
843	1409.60	1757.68	26.99	34.2	180.7	15.00
844	1404.58	1779.91	26.30	48.6	174.7	10.00
845	1425.66	1800.58	25.10	43.3	1.6	12.30
846	1410.48	1796.95	24.70	47.5	176.8	11.00
847	1415.75	1818.20	25.72	41.7	356.8	25.00
848	1410.14	1819.18	26.12	48.6	165.7	17.50
849	1431.29	1840.40	25.12	49.8	184.5	17.00
850	1409.25	1837.72	26.35	54.2	189.4	11.10
851	1428.66	1861.53	25.87	48.1	172.8	20.50
852	1398.43	1859.89	26.65	51.7	177.9	11.20
853	1429.29	1880.23	26.37	48.6	182.5	10.40
854	1402.07	1881.64	26.88	47.5	179.9	10.50
855	1418.30	1840.64	25.20	37.1	181.9	13.10
856	1397.87	1857.71	26.82	43.2	354.8	25.00
857	1422.63	1880.54	26.27	46.3	191.4	26.10
858	1440.68	1674.71	19.72	46.9	180.9	20.00
859	1422.47	1614.88	37.42	44.0	180.9	38.50
860	1429.34	1630.98	37.46	46.2	187.3	33.70
861	1432.95	1650.32	38.50	49.5	177.4	38.90
862	1470.43	1400.72	-12.64	50.3	179.4	152.70
863	1470.67	1371.33	-14.92	49.8	179.4	140.10
864	1470.18	1339.86	-16.23	51.1	178.6	188.85
865	1437.27	1620.38	48.94	38.4	177.8	56.45
866	1409.75	1619.93	47.56	8.2	180.2	50.10
867	1423.20	1600.20	47.97	60.9	182.3	48.45
868	1422.24	1580.06	48.11	58.1	178.8	48.80
869	1426.41	1560.34	48.13	38.5	160.1	55.20
870	1426.26	1560.16	48.22	60.7	178.7	74.20
871	1412.65	1500.90	48.56	42.3	158.8	47.70
872	1423.30	1500.24	48.70	62.3	177.6	87.80
873	1413.05	1499.86	47.99	8.5	180.7	47.20
874	1423.82	1489.90	48.65	37.1	193.4	91.40
875	1423.99	1489.93	48.61	65.8	193.7	115.95
876	1423.39	1487.56	48.84	51.1	221.5	156.85
877	1470.40	1400.70	-12.60	50.0	169.0	172.20

Borrhål i Långdalgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
878	1430.62	1618.72	48.29	56.8	147.9	85.40
879	1450.00	1400.70	-12.60	50.5	179.0	159.00
880	1440.32	1630.26	77.45	0.0	180.0	40.00
881	1438.69	1609.98	77.23	1.0	179.8	43.00
882	1432.98	1590.01	77.63	0.8	180.0	36.00
883	1429.45	1560.18	77.52	0.0	143.6	40.80
884	1430.70	1550.00	77.17	1.3	181.0	42.95
885	1431.58	1540.00	77.07	0.6	180.6	45.05
886	1435.55	1529.96	77.14	1.1	181.0	50.15
887	1436.19	1500.09	77.19	1.5	180.2	62.05
888	1434.81	1489.99	77.62	1.2	179.4	60.30
889	1434.56	1485.03	77.76	1.7	189.0	66.40
890	1434.43	1484.84	77.78	0.6	195.8	72.85
891	1434.37	1484.52	77.79	1.7	207.1	76.00
892	1538.00	1019.00	0.00	50.0	170.5	496.00
893	1434.34	1484.43	77.76	0.8	215.7	80.25
894	1444.16	1662.80	76.38	-4.0	178.2	42.30
895	1662.47	1250.14	-15.41	50.0	180.0	660.35
896	1700.00	2450.00	0.00	66.0	204.0	445.60
897	1370.00	2650.00	0.00	65.0	204.0	358.00
898	1600.97	2750.56	-23.47	64.4	205.3	417.50
899	1490.39	1400.04	-14.51	67.0	177.5	394.35
900	1266.90	1510.77	6.62	76.5	356.0	450.50
901	1306.34	1600.02	11.85	79.1	358.3	450.70
902	1460.05	1360.11	-14.74	50.2	180.8	154.15
903	1470.02	1371.99	-14.70	46.6	177.7	164.20
904	1460.20	1389.68	-12.56	53.1	180.9	170.50
905	1457.13	1403.77	-11.56	54.2	175.7	180.00
906	1349.82	1400.01	4.64	44.7	1.5	65.40
907	1343.84	1420.15	3.47	42.7	1.4	73.00
908	1344.41	1439.82	1.28	39.8	1.4	60.30
909	1338.48	1459.92	0.31	39.9	0.9	60.20
910	1346.70	1479.95	-0.15	43.8	359.6	64.70
911	1357.77	1532.20	8.27	50.2	344.8	86.00

Åkerberg

Säkringsmaterial för 1998

Innehållsförteckning:

- 1.1 Dagblad-information
- 2.1 U.J och dagbrott-information
- 2.2 Horisontalprojektion med sparad vy
- 2.3 Horisontalskärningar med sparade vyer
- 2.4 Tvärprofiler med sparade vyer
- 3.1 Filförteckning

Bilagor

- 1 Kartbeskrivning
- 2 Geologiskt beteckningsschema
- 3 Koordinatförteckning fixpunkter
- 4 Koordinatförteckning diamantborrhål

1.1 Dagblad – information

Dagbladet består av 4 filer kartblad med sparade vyer i A1-format skala 1:1000.

Filerna heter:

TOPD10.DGN

TOPD11.DGN

TOPD20.DGN

TOPD21.DGN

Vyerna heter:

TOPO10

TOPO11

TOPO20

TOPO21

2.1 U.J och dagbrott. – information

Består av 3 typer av kartblad, en horisontalprojektion, horisontalskärningar och tvärprofiler.

Projektionen är i A1-format skala 1:1000. Skärningarna och tvärprofilerna är i A1-format skala 1:500.

2.2 Horisontalprojektion med sparad vy

Filerna heter:

HPJR.DGN

HPJR.DGN

Vyerna heter:

HPJ160

HPJ195

2.3 Horisontalskärningar med sparade vyer

Filerna heter:

HBLAD1.DGN

Vyerna heter:

109, 119, 129, 132, 140,

142, 159, 164, 169, 204,

209, 213, 79, 89, 99

HBLAD2.DGN

109, 119, 129, 142, 79, 89,

99

2.4 Tvärprofiler med sparade vyer

Filen heter:

PROF.DGN

Vyerna heter:

4265, 4285, 4305, 4325, 4345
4365, 4385, 4405, 4425, 4445
4465, 4485, 4505, 4525, 4545,
4565, 4585, 4605, 4625, 4645
4665

3.1 Filförteckning

Följande filer ingår i säkringsmaterialet.

Huvudfiler är de filer som skall öppnas för att granska kartan. Bakgrundsfiler är kopplade som referens till huvudfilerna. Kartbladen ligger som sparade vyer i huvudfilerna.

Huvudfiler:

hblad1.dgn	hblad1.vyr
hblad2.dgn	hblad2.vyr
hpjr.dgn	hpjr.vyr
prof.dgn	prof.vyr
topd10.dgn	topd10.vyr
topd11.dgn	topd11.vyr
topd20.dgn	topd20.vyr
topd21.dgn	topd21.vyr

Bakgrundsfiler:

hrut15.dgn	g1bprof.dgn
hrut25.dgn	g1brampd.dgn
prut15.dgn	g1brampu.dgn
g1bpall.dgn	g1bstom.dgn
g1bdagbl.dgn	g1b160.dgn
g1b195.dgn	akkpall.dgn
akk160.dgn	akk195.dgn
akkrampu.dgn	

Filer med efternamnet DGN är designfiler där kartmaterialet ligger.

Filer med efternamnet VYR innehåller vy-uppställningarna och måste ligga i samma katalog som DGN-filerna för att man ska kunna koppla upp vyerna som är sparade.

Kartbeskrivning

Gruvkartan har upprättats enligt nedanstående bladindelningssystem.

20	21
1102	11

Blad 20, 21, 10, 11 är topografiska blad.

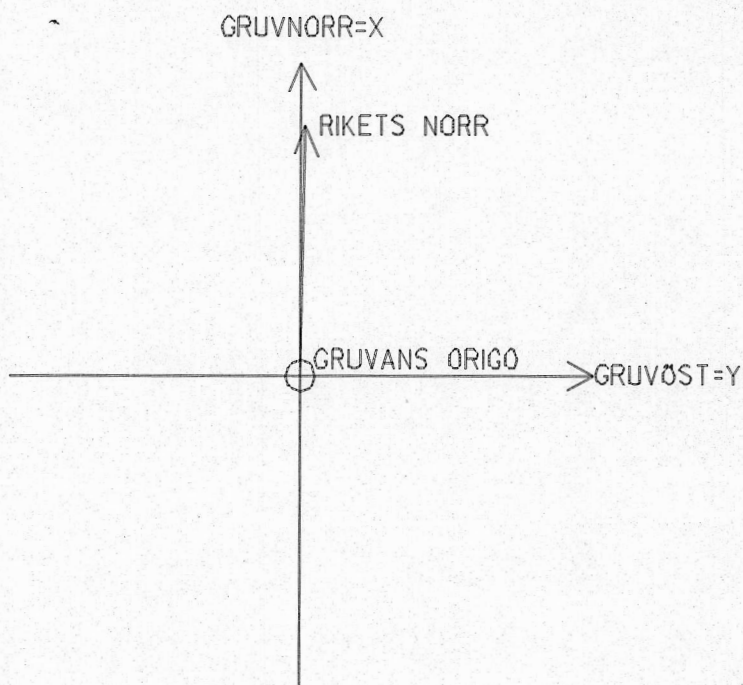
Blad 1 och 2 är gruvan.

Höjden 272.66 m enligt RH00 är nollpunkt i gruvans höjdsystem.

Origo i gruvans lokala koordinatsystem har koordinaterna:

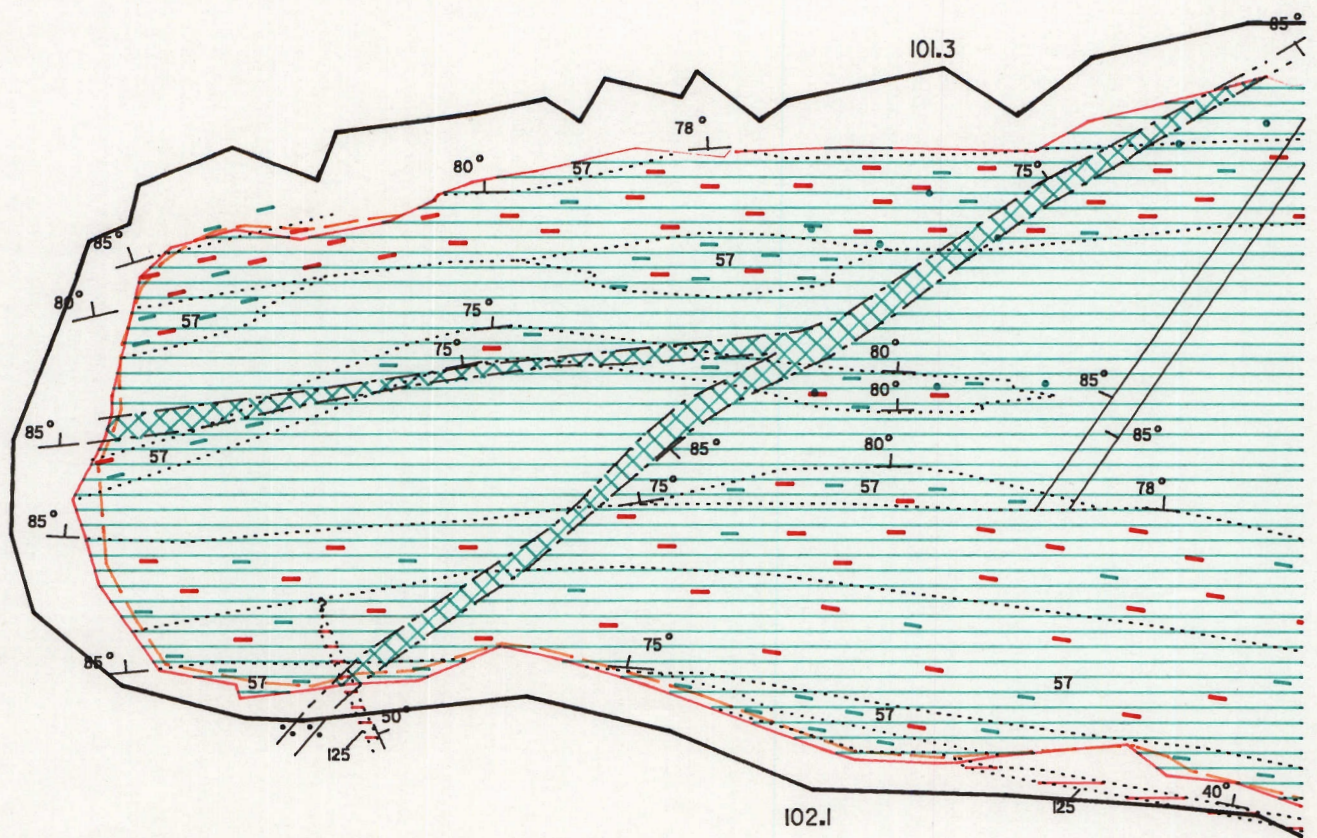
$X=7221265.88$ $Y=1728064.19$ i RT90.

Vinkeln från gruvsystemets Norr till Rikets Norr är 1.0459 grader.



AKERBERG

Geologiska beteckningar



Å K E R B E R G

I (I)

Geologiska beteckningar

Bergart

Stabilo

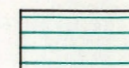
Datakod

Gabbro

8723



57



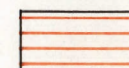
Aplit

8718

8754



126

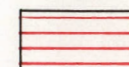


Pegmatit

8750



125

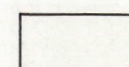
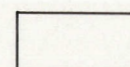
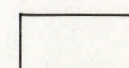
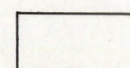
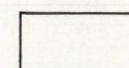
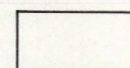
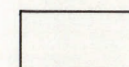
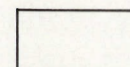
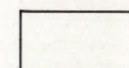
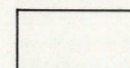


Mylonit

8751



75



Å K E R B E R G

I (I)

Impregnations beteckningar

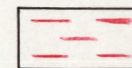
Bergart

Stabilo

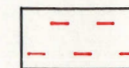
Datakod

Kvartsbandning

8750

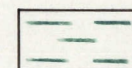


Q

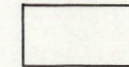
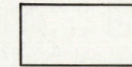
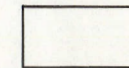
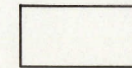
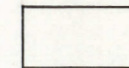
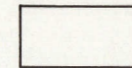
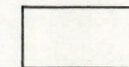
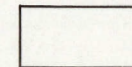
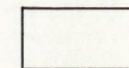
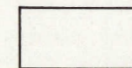
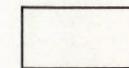
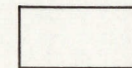
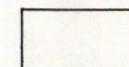
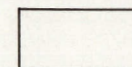
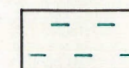


Amfibolbandning

8736



A



Stompunkter i Åkerbergsgruvan

Nr	X	Y	Z
0	3237.893	4313.755	62.959
1	3206.349	4283.126	50.000
2	3227.808	4222.770	51.044
3	2714.306	4331.581	96.113
4	2961.969	4074.660	83.582
7	3310.449	4200.051	53.082
8	3319.975	4212.184	53.067
9	3324.617	4200.238	52.616
10	3069.717	4228.256	59.813
11	3079.403	4214.249	59.118
12	3063.178	4214.709	60.281
13	3075.150	4707.499	76.110
14	3080.435	4724.280	76.495
15	3069.881	4735.317	75.988
16	3314.620	4730.310	85.999
17	3321.474	4717.855	86.321
18	3319.454	4735.724	85.866
19	3078.791	4198.353	60.662
20	3069.215	4215.154	60.339
21	3021.749	5067.014	86.394
22	3018.859	5178.714	88.317
23	2990.164	5108.882	86.048
24	3074.663	5086.397	85.856
27	3207.345	4245.332	50.863
28	3259.295	4222.546	53.027
29	3262.593	4252.897	53.346
35	3106.557	4837.760	79.179
36	3117.655	4632.494	73.995
37	3264.286	4378.683	64.715
42	3177.043	4698.575	80.589
43	3277.440	4650.578	80.026
44	3237.893	4313.755	62.959
45	3225.749	4289.734	61.924
46	3203.051	4279.407	63.795
47	3141.423	4650.553	79.544
48	3247.683	4568.142	79.803
50	3249.455	4535.954	78.457
51	3213.807	4392.955	67.518
52	3204.280	4386.338	67.197
53	3192.456	4385.041	66.207
54	3169.409	4401.577	66.985

Stompunkter i Åkerbergsgruvan

Nr	X	Y	Z
55	3246.044	4497.505	77.743
56	2974.921	4510.495	70.481
57	2987.500	4510.003	69.399
58	2980.031	4530.656	70.781
59	3236.650	4298.699	54.058
60	3247.391	4496.844	71.078
61	3029.617	4406.818	69.289
62	3028.133	4396.448	69.511
63	3113.810	4334.939	63.877
64	3095.770	4341.189	65.498
65	3240.967	4416.479	78.367
66	3248.351	4560.670	80.066
67	3139.073	4647.611	80.964
68	3126.270	4591.951	80.661
69	3195.644	4669.921	86.923
70	3216.193	4652.795	88.406
71	3157.375	4652.710	87.669
72	3238.642	4359.166	77.366
73	3243.865	4404.053	73.202
74	3234.273	4613.529	88.533
75	3235.374	4571.973	87.340
76	3235.571	4545.647	87.092
77	3128.561	4410.415	72.587
78	3172.291	4662.292	83.092
79	3240.267	4389.537	77.734
80	3130.064	4406.042	78.425
81	3141.775	4426.883	89.590
82	3224.975	4434.888	98.377
83	3222.199	4525.453	102.743
84	3123.421	4567.262	68.872
85	3247.039	4497.030	70.602
86	3206.453	4278.867	48.295
100	3590.992	4486.706	74.827
101	3600.005	4505.758	75.321
102	3981.469	5367.228	88.034
103	3635.325	5434.921	98.697
104	3541.325	5418.885	97.277
105	3499.024	5410.066	97.115
106	3479.859	5401.526	97.675
107	3232.090	4565.480	97.090
108	3201.005	4320.588	118.033

Stompunkter i Åkerbergsgruvan

Nr	X	Y	Z
109	3174.307	4349.020	118.765
110	3169.204	4373.038	118.950
111	3263.036	3893.361	78.996
112	3280.640	3883.327	79.602
113	3267.457	3873.725	80.816
114	3204.436	4341.453	118.011
115	3202.289	4327.146	118.497
116	3175.024	4332.851	119.091
117	3400.700	4435.116	69.309
118	3399.479	4413.785	68.344
119	3199.035	4297.663	121.370
120	3200.257	4283.677	123.172
121	3197.040	4272.241	124.378
122	3216.023	4254.427	126.807
123	3631.552	4308.599	67.554
124	3606.770	4291.684	67.217
125	3219.068	4252.805	127.877
126	3254.607	4262.410	133.019
127	3264.183	4296.671	138.366
128	3169.214	4430.588	131.108
129	3173.483	4455.955	135.012
130	3462.031	4365.351	62.565
131	3479.055	4364.853	63.741
132	3470.327	4212.285	57.825
133	3459.937	4197.723	57.373
134	3263.979	4335.787	143.910
135	3264.631	4396.621	153.395
136	3264.094	4440.950	159.830
137	3207.684	4454.752	166.861
138	3202.254	4455.519	166.883
139	3174.610	4434.764	168.710
140	3182.046	4434.639	169.223
141	3177.529	4455.992	169.252
142	3183.577	4454.427	169.040
143	3263.554	4549.387	173.790
144	3275.028	4553.886	175.082
145	3302.415	4536.241	180.594
146	3307.831	4529.103	181.731
147	3189.097	4446.065	165.017
148	3188.983	4440.116	165.087
149	3174.029	4439.677	164.225

Stompunkter i Åkerbergsgruvan

Nr	X	Y	Z
150	3193.227	4445.766	160.392
151	3190.916	4440.230	160.263
152	3188.559	4382.723	159.182
153	3181.787	4379.388	158.784
154	3219.697	4439.267	203.357
155	3208.424	4445.140	204.809
156	3191.721	4548.351	158.954
157	3180.785	4563.979	159.234
158	3170.780	4447.550	208.798
159	3261.855	4545.367	174.272
160	3286.074	4562.232	177.844
161	3306.355	4543.449	180.836
162	3307.698	4442.892	194.474
163	3208.364	4444.969	202.573
508	3193.369	4103.130	60.221
519	3182.281	4243.027	58.456
888	3211.177	4526.269	101.219
9601	3259.361	4410.033	154.256
9602	3264.715	4423.236	156.344
239391	7219987.950	1695343.800	308.800

Borrhål i Åkerbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
1	3200.00	4600.00	76.80	50.0	180.0	72.00
2	3204.02	4564.18	74.97	50.0	180.0	81.10
3	3206.30	4523.01	72.35	50.0	180.0	81.00
4	3203.21	4484.04	70.68	50.0	180.0	66.10
5	3198.20	4445.77	69.16	50.0	180.0	65.20
6	3194.48	4404.98	67.11	50.0	180.0	56.60
7	3198.55	4361.98	63.92	50.0	180.0	68.30
8	3183.52	4643.81	79.97	51.0	180.0	70.20
9	3250.44	4602.58	79.27	50.0	180.0	152.60
10	3256.97	4525.78	74.40	50.0	180.0	162.65
11	3247.34	4444.27	69.89	50.0	180.0	124.80
12	3252.74	4365.76	63.82	50.0	181.8	151.35
13	3219.27	4325.77	59.25	50.0	180.0	88.00
14	3225.26	4281.95	51.27	52.0	180.0	103.50
15	3278.83	4285.12	56.75	51.0	180.0	163.90
16	3229.32	4245.04	52.33	50.0	180.0	103.60
17	3406.05	4373.26	66.17	50.0	206.6	110.30
18	3426.50	4141.85	54.56	50.0	180.0	76.00
19	3318.94	4363.26	64.38	60.0	180.0	312.30
20	3248.88	4974.65	85.16	50.0	180.0	110.55
21	3147.53	4974.90	83.55	50.0	180.0	98.05
22	3065.54	4967.78	85.13	49.5	180.0	95.80
23	3115.13	4643.89	75.74	51.0	180.0	76.75
24	3213.65	4301.32	54.63	52.0	185.6	70.45
25	3240.24	4326.32	61.50	51.0	179.6	119.75
26	3203.81	4323.54	59.69	49.0	180.6	61.10
27	3212.83	4340.88	60.02	50.0	180.0	76.35
28	3253.09	4327.19	61.53	50.0	180.0	140.00
29	3223.82	4362.90	64.01	50.0	180.0	90.55
30	3156.37	4362.73	63.85	50.0	180.0	50.50
31	3204.70	4384.98	65.46	50.0	180.0	65.35
32	3182.00	4405.46	67.37	50.0	180.0	44.40
33	3214.29	4405.34	67.26	50.0	180.0	86.65
34	3183.93	4564.27	73.93	50.0	180.0	41.20
35	3221.40	4565.44	76.09	49.5	180.0	91.05
36	3234.15	4405.11	67.48	51.5	180.0	110.10
37	3207.89	4427.56	67.78	50.0	180.0	80.20
38	3215.42	4542.84	74.37	50.0	180.0	81.10
39	3180.66	4444.89	69.15	50.0	180.0	35.85
40	3230.30	4523.16	73.56	50.0	180.0	110.30
41	3222.50	4445.17	69.41	50.0	180.0	92.20
42	3160.60	4522.64	70.42	50.0	0.0	36.20
43	3213.57	4503.49	71.92	50.0	180.0	75.25
44	3213.59	4466.20	70.44	50.0	180.0	78.15
45	3246.69	4564.71	75.99	50.0	180.0	121.10
46	3185.77	4484.22	70.77	50.0	180.0	34.65
47	3222.62	4484.36	70.53	50.0	180.0	81.35
48	3216.22	4582.60	76.51	50.0	180.0	90.25
49	3241.90	4484.16	71.94	50.0	180.0	107.90
50	3228.11	4601.80	78.75	50.0	180.0	106.00

Borrhål i Åkerbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
51	3260.99	4485.11	72.35	58.0	180.0	165.00
52	3264.91	4444.90	70.16	55.0	180.0	175.10
53	3179.98	4601.63	75.89	50.0	180.0	43.20
54	3212.58	4619.75	80.05	50.0	180.0	80.00
55	3266.89	4564.31	76.49	58.0	180.0	177.60
56	3256.48	4404.29	67.68	55.0	180.0	179.50
57	3271.67	4364.14	64.01	55.0	180.0	187.20
58	3278.64	4323.90	60.99	55.0	180.0	198.10
59	3116.65	4695.20	76.13	50.0	180.0	71.90
76	3166.39	4471.16	73.80	45.0	180.0	13.65
77	3169.71	4438.89	70.03	45.0	180.0	13.30
78	3160.73	4428.14	69.57	45.0	180.0	5.90
79	3159.54	4402.79	67.90	45.0	180.0	3.25
80	3165.65	4408.51	68.15	45.0	200.0	9.55
81	3167.88	4427.53	69.54	40.0	200.0	11.60
82	3167.10	4385.93	69.59	45.0	200.0	10.45
83	3175.67	4345.93	64.88	45.0	200.0	11.90
84	3180.07	4326.63	64.13	45.0	200.0	22.20
85	3208.33	4364.28	67.35	43.0	200.0	23.65
86	3159.92	4506.35	82.21	45.0	200.0	21.00
87	3155.48	4515.65	82.11	45.0	180.0	3.55
88	3162.59	4518.85	82.19	45.0	180.0	12.40
89	3166.97	4508.96	82.06	45.0	180.0	14.55
90	3146.95	4582.81	82.30	45.0	180.0	11.20
91	3154.21	4584.16	82.27	45.0	180.0	6.90
92	3167.14	4590.05	81.63	45.0	180.0	12.80
93	3031.46	4445.02	71.85	49.0	3.8	281.90
94	3020.32	4401.17	70.31	51.0	2.3	298.70
95	3314.42	4321.67	60.79	55.0	181.8	265.25
96	3079.09	5057.49	85.47	48.0	180.0	200.50
97	3149.54	5346.54	94.50	50.0	180.0	129.10
98	3038.44	5342.16	95.75	50.0	180.0	174.80
99	3226.05	4507.28	89.79	50.0	180.0	85.75
100	3222.01	4464.03	89.97	50.0	174.6	82.60
101	3216.06	4425.24	90.52	50.0	180.0	75.25
102	3179.51	4584.24	89.14	50.0	0.0	15.10
103	3179.34	4584.54	89.10	50.0	180.0	32.00
104	3176.74	4504.29	89.35	50.0	180.0	21.50
105	3178.89	4543.93	89.33	50.0	180.0	31.20
106	3177.95	4464.49	90.73	50.0	180.0	20.60
107	3174.03	4425.09	90.98	50.0	180.0	15.30
108	3218.11	4383.52	81.35	50.0	180.0	75.70
109	3217.55	4345.88	80.96	50.0	180.0	76.00
110	3286.06	4425.43	69.15	51.2	179.1	204.50
111	3286.06	4425.42	68.63	41.0	179.1	185.40
112	3289.77	4444.90	70.06	42.2	180.5	179.05
113	3280.06	4406.99	67.04	48.2	178.1	158.75
114	3292.77	4464.52	70.27	43.0	184.3	215.25
115	3293.25	4464.54	70.34	55.8	186.4	214.80
116	3212.49	4485.07	106.54	63.9	181.4	102.40

Borrhål i Åkerbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
117	3278.44	4384.80	65.54	53.3	175.0	215.00
118	3273.40	4343.52	62.03	46.0	172.0	158.90
119	3286.47	4505.07	72.59	53.3	182.6	194.10
120	3269.69	4525.09	73.82	58.8	180.7	192.30
121	3263.52	4585.16	77.26	61.6	185.3	243.50
122	3221.07	4544.52	99.82	60.1	178.3	115.15
123	3224.93	4565.14	98.43	63.0	178.7	130.10
124	3219.93	4585.37	96.47	61.5	179.6	107.30
125	3202.03	4389.88	111.10	63.2	215.0	100.40
126	3061.34	4365.22	68.28	54.2	1.6	299.25
127	2976.61	4365.13	72.03	47.0	359.5	356.20
128	3403.83	4425.08	69.83	54.9	178.6	330.10
129	3008.26	4545.41	69.79	53.4	0.9	315.30
130	2969.73	4485.13	72.91	48.2	359.6	454.90
131	3000.28	4585.18	70.46	56.5	1.7	290.20
132	3278.77	4086.21	64.87	49.0	178.5	235.70
133	3269.57	3888.55	80.74	49.4	177.1	226.50
134	3469.28	4285.24	61.66	50.0	180.2	264.50
138	3245.19	4267.47	132.78	0.0	0.0	70.30
139	3224.31	4249.43	128.45	0.0	0.0	160.80
140	3246.09	4341.62	143.60	-0.3	201.8	101.35
141	3248.13	4340.79	144.52	0.0	0.0	96.90
142	3259.42	4424.64	157.71	57.0	180.0	140.70
143	3242.49	4345.06	144.87	47.5	181.5	110.00
144	3246.91	4406.18	154.14	48.6	179.5	126.50
145	3282.04	4485.10	71.69	59.2	178.9	217.50
146	3270.83	4505.10	72.42	50.1	179.1	179.00
147	3260.74	4465.04	70.39	49.5	180.7	95.00
148	3089.75	4545.06	72.26	43.5	359.2	139.00
149	3259.33	4459.49	161.22	50.5	180.7	124.00
150	3259.32	4459.56	159.79	-0.1	177.5	110.30
151	3259.26	4459.62	160.37	22.0	176.6	116.70
152	3625.52	4285.64	68.56	49.7	180.0	358.40
153	3465.53	4205.33	57.74	49.0	180.6	172.80
154	3435.49	4365.24	65.34	50.8	179.6	189.00
155	3259.29	4460.00	160.10	10.1	176.5	109.00
156	3242.12	4345.30	143.92	4.0	181.3	50.80
157	3254.53	4285.00	54.43	55.1	180.7	176.00
158	3267.73	4305.03	59.28	47.6	183.3	200.60
159	3242.30	4345.00	144.40	30.0	180.0	76.30
160	3259.69	4365.20	147.92	22.0	180.0	96.70
161	3259.73	4365.22	148.66	40.0	180.0	119.20
162	2939.79	4364.98	74.77	49.0	359.4	422.50
163	3298.68	4385.10	66.63	54.3	181.1	260.40
164	3247.08	4405.88	154.57	74.0	180.0	175.55
165	3232.65	4426.15	149.71	31.8	179.0	86.30
166	3232.73	4426.25	150.51	55.2	174.5	122.60
167	3234.18	4424.95	150.78	69.8	174.9	168.01
168	3278.99	4444.77	69.26	55.3	182.0	93.20
169	3295.90	4465.21	190.83	16.0	180.0	131.90

Borrhål i Åkerbergsgruvan

Nr	X	Y	Z	Lutning	Riktning	Längd
170	3296.10	4465.20	191.42	37.0	180.0	156.50
171	3296.18	4465.21	191.67	46.0	180.0	161.30
172	3286.15	4504.47	186.51	22.0	180.0	131.60
173	3265.25	4526.05	172.64	41.0	165.0	134.40
174	3255.99	4524.10	171.02	13.3	177.6	95.00
175	3266.82	4524.10	172.62	43.0	180.0	130.70
176	2976.63	4344.60	71.42	43.2	358.2	352.10
177	3018.14	4444.94	71.91	42.6	359.9	232.75
181	3286.14	4504.49	186.96	33.0	180.0	136.30
182	3256.00	4524.00	172.00	59.0	180.0	177.00
183	3343.22	4384.91	66.57	51.1	187.2	284.00
184	3301.21	4485.27	73.06	59.3	181.4	240.33
191	3254.38	4445.28	160.55	87.5	284.9	33.60

Åkerberg

Säkringsmaterial för 1998

Innehållsförteckning:

- 1.1 Dagblad-information
- 2.1 U.J och dagbrott-information
- 2.2 Horisontalprojektion med sparad vy
- 2.3 Horisontalskärningar med sparade vyer
- 2.4 Tvärprofiler med sparade vyer
- 3.1 Filförteckning

Bilagor

- 1 Kartbeskrivning
- 2 Geologiskt beteckningsschema
- 3 Koordinatförteckning fixpunkter
- 4 Koordinatförteckning diamantborrhål

1.1 Dagblad – information

Dagbladet består av 4 filer kartblad med sparade vyer i A1-format skala 1:1000.

Filerna heter:
TOPD10.DGN
TOPD11.DGN
TOPD20.DGN
TOPD21.DGN

Vyerna heter:
TOPO10
TOPO11
TOPO20
TOPO21

2.1 U.J och dagbrott. – information

Består av 3 typer av kartblad, en horisontalprojektion, horisontalskärningar och tvärprofiler.

Projektionen är i A1-format skala 1:1000. Skärningarna och tvärprofilerna är i A1-format skala 1:500.

2.2 Horisontalprojektion med sparad vy

Filerna heter:
HPJR.DGN
HPJR.DGN

Vyerna heter:
HPJ160
HPJ195

2.3 Horisontalskärningar med sparade vyer

Filerna heter:
HBLAD1.DGN

Vyerna heter:
109, 119, 129, 132, 140,
142, 159, 164, 169, 204,
209, 213, 79, 89, 99

HBLAD2.DGN

109, 119, 129, 142, 79, 89,
99

2.4 Tvärprofiler med sparade vyer

Filen heter:
PROF.DGN

Vyerna heter:
4265, 4285, 4305, 4325, 4345
4365, 4385, 4405, 4425, 4445
4465, 4485, 4505, 4525, 4545,
4565, 4585, 4605, 4625, 4645
4665

3.1 Filförteckning

Följande filer ingår i säkringsmaterialet.

Huvudfiler är de filer som skall öppnas för att granska kartan. Bakgrundsfiler är kopplade som referens till huvudfilerna. Kartbladen ligger som sparade vyer i huvudfilerna.

Huvudfiler:

hblad1.dgn	hblad1.vyr
hblad2.dgn	hblad2.vyr
hpjr.dgn	hpjr.vyr
prof.dgn	prof.vyr
topd10.dgn	topd10.vyr
topd11.dgn	topd11.vyr
topd20.dgn	topd20.vyr
topd21.dgn	topd21.vyr

Bakgrundsfiler:

hrut15.dgn	glbprof.dgn
hrut25.dgn	glbrampd.dgn
prut15.dgn	glbrampu.dgn
glbpall.dgn	glbstom.dgn
glbdagbl.dgn	glb160.dgn
glb195.dgn	akkpall.dgn
akk160.dgn	akk195.dgn
akkrampu.dgn	

Filer med efternamnet DGN är designfiler där kartmaterialet ligger.

Filer med efternamnet VYR innehåller vy-uppställningarna och måste ligga i samma katalog som DGN-filerna för att man ska kunna koppla upp vyerna som är sparade.

Kartbeskrivning

Gruvkartan har upprättats enligt nedanstående bladindelningssystem.

20	21
1102	11

Blad 20, 21, 10, 11 är topografiska blad.

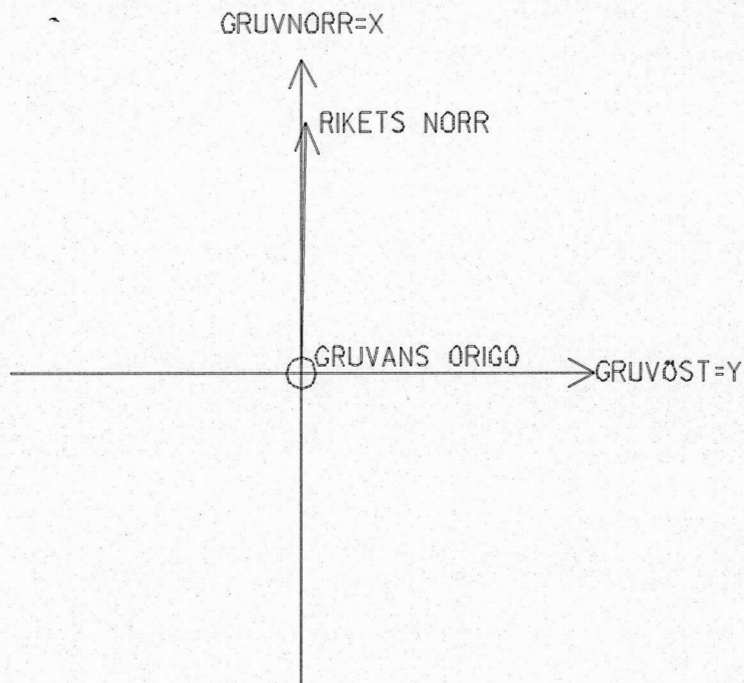
Blad 1 och 2 är gruvan.

Höjden 272.66 m enligt RH00 är nollpunkt i gruvans höjdsystem.

Origo i gruvans lokala koordinatsystem har koordinaterna:

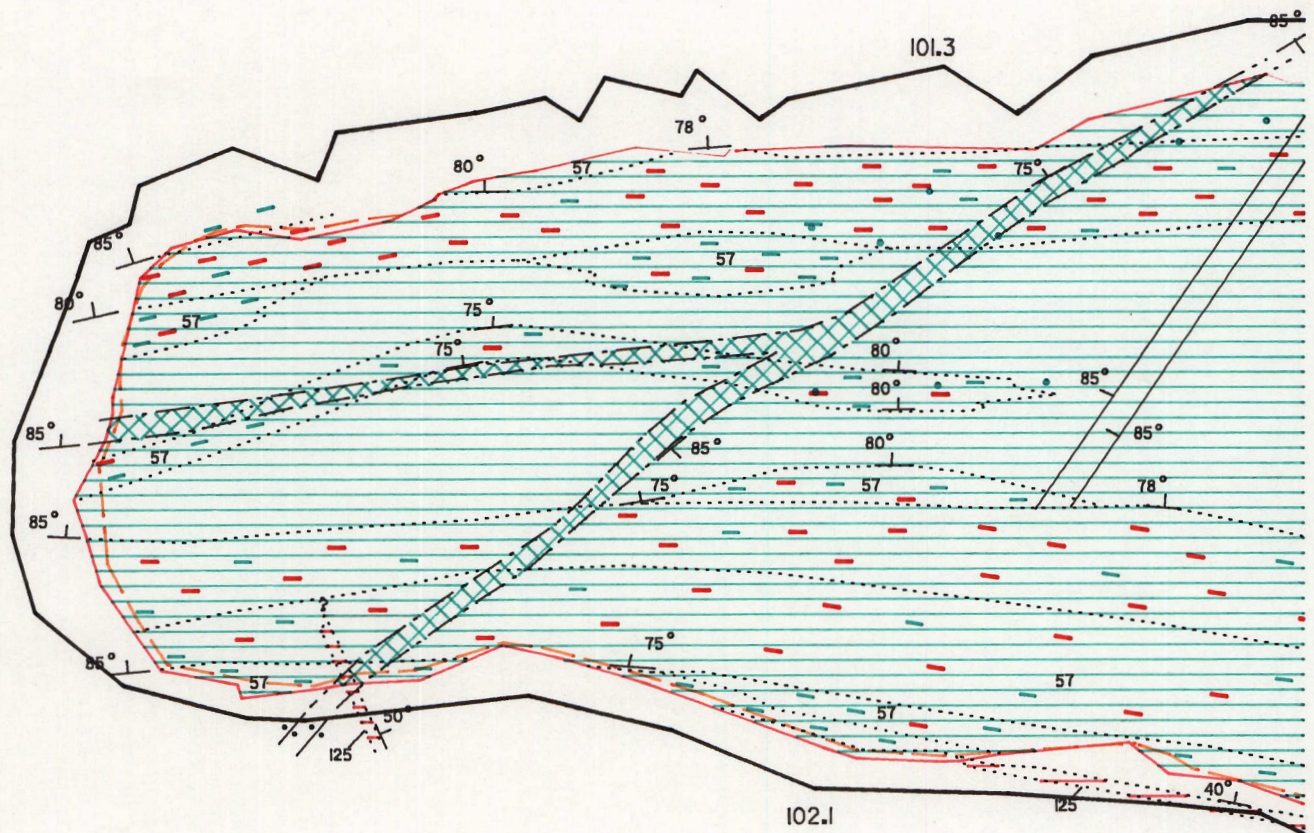
$X=7221265.88$ $Y=1728064.19$ i RT90.

Vinkeln från gruvsystemets Norr till Rikets Norr är 1.0459 grader.



AKERBERG

Geologiska beteckningar



Å K E R B E R G

I (I)

Geologiska beteckningar

Bergart

Stabilo

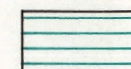
Datakod

Gabbro

8723



57

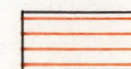


Aplit

⁸⁷¹⁸
8754



126

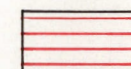


Pegmatit

8750



125

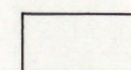
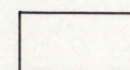
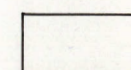
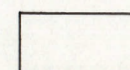
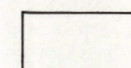
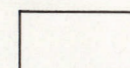
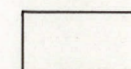
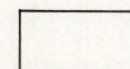
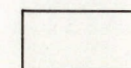
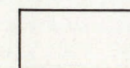


Mylonit

8751



75



Å K E R B E R G

I (I)

Impregnations beteckningar

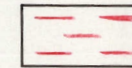
Bergart

Stabilo

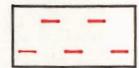
Datakod

Kvartsbandning

8750

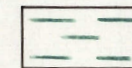


Q

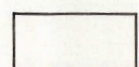
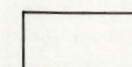
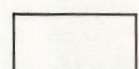
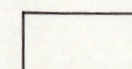
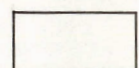
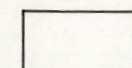
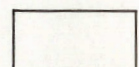
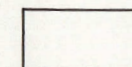
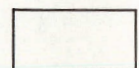
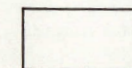
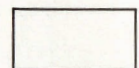
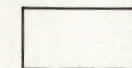
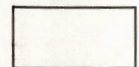
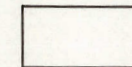
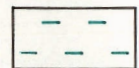


Amfibolbandning

8736

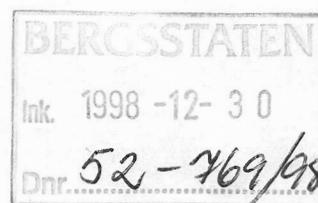


A



Gruvmätn./ Tomas Bergström
Boliden Mineral AB
920 40 Kristineberg

1998-12-28



Bergstaten
Varvsg. 41
972 32 LULEÅ

Härmed översändes en CD-skiva med säkringsmaterialet
över **Kristinebergsgruvan** samt följande bilagor.

Kartbeskrivning

Filförteckning

Geologisk legend

Koordinatförteckning över tillkomna TP-punkter

Med vänlig hälsning
BOLIDEN MINERAL

Hans Andersson

Tomas Bergström

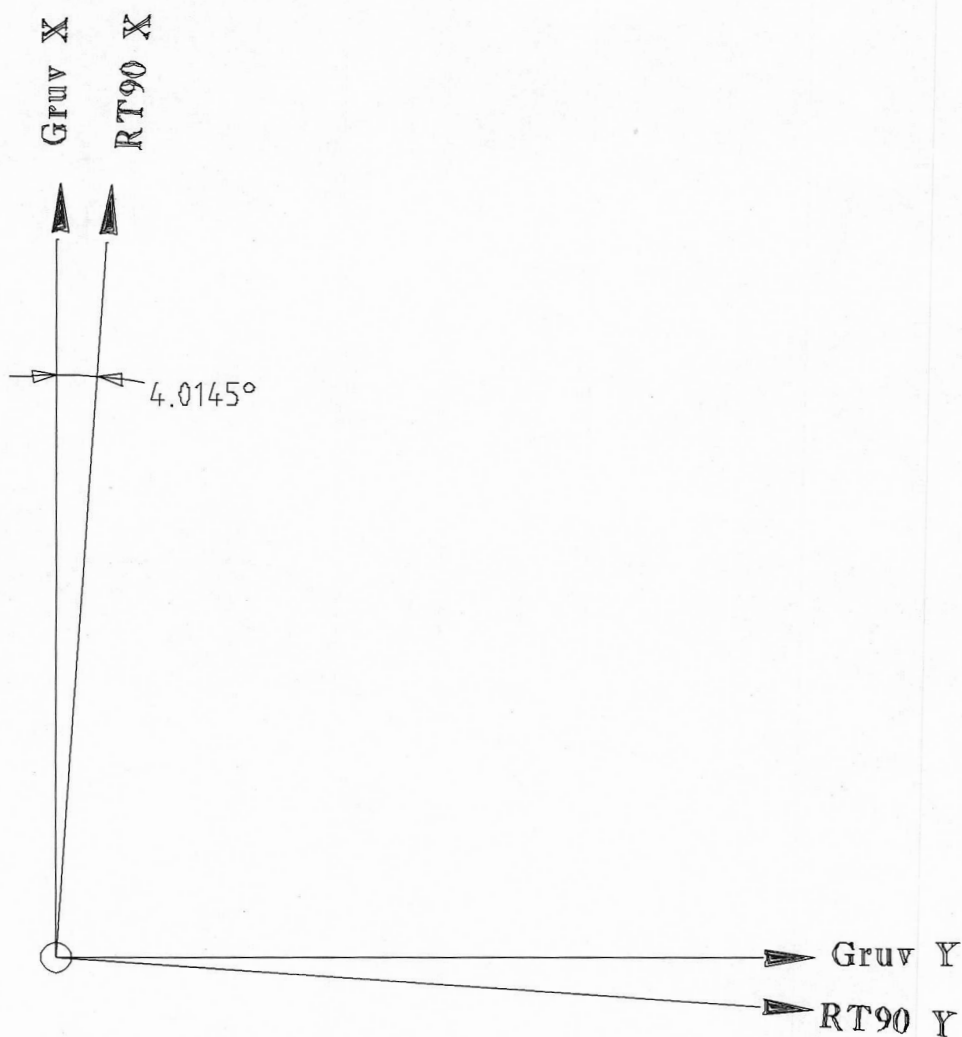
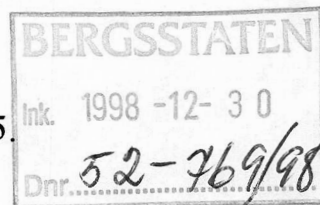
Ärendemening Säkringsmaterial för Kristinebergsgruvan i Lycksele kommun, Västerbottens län		Dnr 52-769/98 (grp - löpnummer - år)	
Från/Till Boliden Mineral AB, Kristineberg	Ing-datum 1998-12-30	Utg-datum	Handl. överl. till
Skrivelser	Ing	Utg	Besvaras
			Beslutsdatum
			Ärendet avfört

Kristinebergsgruvans koordinatsystem

Höjden 413.77 m enligt RH00 är nollpunkt i gruvans höjdsystem.

Origo i gruvans lokala koordinatsystem har koordinaterna:
 $X=7218540.9$ $Y=1626931.7$ i RT90.

Vinkeln från gruvsystemets Norr till Rikets Norr är $4^{\circ}.0145$.



	14	15
23	24	25
33	34	35

Kristinebergsgruvan filförteckning säkringsmaterial

Directory of ..G2K\DGN

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A_RUM.DGN	a_rum.txt	bergschakt.DGN
dgn.doc	g2k_a_rum.dgn	g2k_bladdelning.dgn
GEOPAT.CDX	GEOPAT.CEL	IMPREG.CDX
IMPREG.CEL	KOMP.DGN	kor_prof.dgn
[nivter]	[prof proj]	ramp80.dgn
ramp80.txt	ramp85.dgn	ramp85.txt
ramp_pos11_115m.dgn	ramp_pos11_115m.vyr	rumsblad.dgn
rum_100.DGN	rum_100.TXT	rum_100.VYR
rum_110.DGN	rum_110.VYR	rum_122.dgn
rum_122.vyr	rum_130.dgn	rum_140.dgn
rum_150.dgn	rum_160.dgn	rum_170.dgn
rum_177.dgn	rum_187.dgn	rum_200.dgn
rum_220.dgn	rum_230.dgn	rum_240.dgn
rum_257.dgn	rum_42.dgn	rum_60.dgn
rum_60.txt	rum_60.vyr	rum_80.dgn
rum_80.txt	sammanst_rum.dgn	[scan]

51 File(s)

Directory of ..G2K\Sakringsmtrl_scann\300

[.]	[..]	275.jpg
276.jpg	280.jpg	283.jpg
296.jpg	297.jpg	299.jpg
300.doc	301.jpg	304.jpg
314.jpg	317.jpg	318.jpg
335.jpg	381.jpg	385.jpg
398.jpg	398_2.jpg	398_3.jpg
398_4.jpg	399.jpg	a299-a300.jpg
a3-277.jpg	a3-298.jpg	a3-303.jpg
a3-315.jpg	a3-343.jpg	a3-348.jpg
a3-368.jpg	a3-380.jpg	a3-388.jpg
a3-394.jpg	a3-404.jpg	a327.jpg
a333.jpg	a336.jpg	a338.jpg
a345.jpg	a347.jpg	a348.jpg
a364.jpg	a369.jpg	a370.jpg
a378.jpg	a380.jpg	a381.jpg
a398.jpg	b277.jpg	b279.jpg
b317.jpg	b318.jpg	b342.jpg
b346.jpg	b348.jpg	b363.jpg
b364.jpg	b379.jpg	b381.jpg
b399.jpg	ort271.jpg	ort320.jpg
r19_281.5_r17_282.jpg	r406_a272.jpg	r406_a279.jpg
r409_b279.jpg	r504-508_a355.jpg	r508_a361.jpg
r511_410.jpg	r511_b355.jpg	r512-514_a351.jpg
r522-526_a355.jpg	r526_a381.jpg	r530_a3-338.jpg
r530_a3-356.jpg	r530_a3-359.jpg	r531_b356.jpg
r6-r12_398.jpg	rum421-423_b281.jpg	

80 File(s)

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nedramp.doc	ramp1104_880-865.jpg	ramp1120_857-848.jpg
ramp1204_960-952.jpg	ramp1230_967-962.jpg	ramp1230_980-967.jpg
ramp1304_1047-1035.jpg	ramp1306_1003.jpg	ramp1310_1005-989.jpg
ramp1330_1029-1026.jpg	ramp1400_1062-1091.jpg	u-ramp_1021-1007.jpg

18 File(s)

Directory of ..G2K\Sakringsmtrl_scann\800-ned\rum

[.]	[..]	nedrum.doc
rum1104_860.jpg	rum1104_865.jpg	rum1104_870.jpg
rum1110-4_818.jpg	rum1120_839.jpg	rum1120_844.jpg
rum1130-3_858.jpg	rum1204a_978.jpg	rum1204_947.jpg
rum1204_952.jpg	rum1204_957.jpg	rum1204_981.jpg
rum1210_916.jpg	rum1230_955.jpg	rum1230_961.jpg
rum1230_966.jpg	rum1230_971.jpg	rum1304_1040.jpg
rum1304_1045.jpg	rum1304_1050.jpg	rum1304_1055.jpg
rum1304_1060.jpg	rum1306_1012.jpg	rum1306_1017.jpg
rum1306_1022.jpg	rum1306_1028.jpg	rum1306_1033.jpg
rum1310-1_1014.jpg	rum1310_1001.jpg	rum1310_1006.jpg
rum1310_1010.jpg	rum1310_1015.jpg	rum1310_996.jpg
rum1330_1035.jpg	rum1330_1040.jpg	rum1330_1045.jpg
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45 File(s)

Directory of ..G2K\DGN\nivter

[.]	[..]	blad_14.DGN	blad_14.VYR	blad_23.dgn
blad_23.vyr	blad_24.dgn	blad_24.vyr	blad_25.dgn	blad_25.vyr
blad_34.DGN	blad_34.VYR	blad_35.DGN	blad_35.VYR	G2K_RAMP.DGN
g2k_ramp.txt	hrut_14.dgn	hrut_23.dgn	hrut_24.dgn	hrut_25.dgn
hrut_33.dgn	hrut_34.dgn	hrut_35.dgn	K130.DGN	k130.txt
K170.DGN	k170.txt	K250.DGN	k250.txt	K330.DGN
k330.txt	K410.DGN	k410.txt	K490.DGN	k490.txt
K550.DGN	k550.txt	K550.VYR	K590.DGN	k590.txt
K690.DGN	k690.txt	K790.DGN	k790.txt	K90.DGN
k90.txt	KHRPA4.DGN	K_GRUVA.DGN	nivaer.doc	

49 File(s)

Directory of ..G2K\Sakringsmtrl_scann\400-800\"vrigt

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ovrigt.doc	s800_674.jpg	sch1_2_a450.jpg	sch1_559.jpg
schakt_475.jpg	vattbass_493.jpg	vstig2_417.jpg	vstig2_435.jpg
vstig_417.jpg	vstig_435.jpg		

14 File(s)

Directory of ..G2K\DGN\prof_proj

[.]	[..]	A_MALM.DGN	a_malm.txt	B1VERT.DGN
blvert.txt	B21VERT.DGN	b21vert.txt	B2VERT.DGN	b2vert.txt
B3VERT.DGN	b3vert.txt	C_VERT.DGN	c_vert.txt	D_VERT.DGN
d_vert.txt	G2KPROF.DGN	g2kprof.txt	g2kprof.vyr	k_stigar.dgn
LPROJ.DGN	prof_1.dgn	prof_1.vyr	proj.doc	VERT-A.DGN
vertb2.dgn	v_rut.dgn	v_rut2.dgn		

28 File(s)

Directory of ..G2K\Sakringsmtrl_scann\400-800\ramp

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ort550.jpg	ramp.doc	ramp_540.jpg
rp1020_748-735.jpg	rp1020_775-747.jpg	rp1020_796-775.jpg
rp1020_816-796.jpg	rp704-706_562.jpg	rp704-706_573.jpg
rp704_546.jpg	rp704_558.jpg	rp806-810_a619.jpg
rp830_654-636.jpg	rp830_684-654.jpg	rp910-3_763-760.jpg
rp910-3_763-789.jpg		

25 File(s)

Directory of ..G2K\DGN\scan

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255.jpg	256.jpg	259.jpg	260.jpg
261.jpg	262.jpg	263.jpg	273.jpg
geo_g2_150.JPG	geo_g2_300.JPG	karta.JPG	scan.doc

16 File(s)

Directory of ..G2K\dgn_topo

[.]	[..]	g2k_system.dgn
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kriberg_eko.DGN	KRIDAGBL.DGN	kri_dag_txt.DGN
kri_damm_dtm_9506.DGN	kri_samh_9506.DGN	kri_samh_9506_dtm.DGN
KRI_TOPO.DGN	kri_topo_9506.DGN	rakkejaur_1983.DGN
topo.doc		

16 File(s)

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a568.jpg	a568_2.jpg	a576.jpg
a580.jpg	a678.jpg	a679.jpg
b453.jpg	b460.jpg	b477.jpg
r1004_4_782.jpg	r1004_4_797.jpg	r1004_771.jpg
r1020_2_779.jpg	r1020_3_756.jpg	r1020_3_771.jpg
r1020_741.jpg	r1020_751.jpg	r1020_792.jpg
r1030_3_782.jpg	r1030_3_790.jpg	r1030_3_opp_774.jpg
r1030_4_752.jpg	r1030_4_766.jpg	r1030_4_opp_745.jpg
r1030_736.jpg	r602-612_a426.jpg	r602_4_410.jpg
r604-606_450.jpg	r604_417.jpg	r604_454.jpg
r604_477.jpg	r604_a441.jpg	r608-612_441.jpg
r608-612_plast_441.jpg	r608_a450.jpg	r608_a461.jpg
r610_a413.jpg	r630_2_a3-460.jpg	r630_440.jpg
r630_a3-450.jpg	r630_a3-460.jpg	r704-708_a493.jpg
r704-708_a519.jpg	r704-708_a541.jpg	r704-708_a553.jpg
r704_502.jpg	r706_a581.jpg	r708-710_a545.jpg

r710_519.jpg
r710_a554.jpg
r730_a3-572.jpg
r804_a624.jpg
r804_a648.jpg
r804_opp_581.jpg
r810_585.jpg
r810_611.jpg
r810_a653.jpg
r830_a3-678.jpg
r832_672-680.jpg
r904_2a_740.jpg
r904_2_a755.jpg
r904_4_732.jpg
r904_7_702.jpg
r910_2_780.jpg
r910_3_opp_744.jpg
r910_5_701.jpg
r930+rp_a3-684-712.jpg
r930_a3-712.jpg

r710_a506.jpg
r730_547.jpg
r804_608.jpg
r804_a632.jpg
r804_a659.jpg
r804_opp_595.jpg
r810_595.jpg
r810_a637.jpg
r810_a658.jpg
r832_2_652.jpg
r832_676.jpg
r904_2_a736.jpg
r904_4-5_714.jpg
r904_6-7_710.jpg
r910_1_a794.jpg
r910_3_750.jpg
r910_4_a722.jpg
r910_5_705.jpg
r930_a3-695.jpg
rum.doc

r710_a532.jpg
r730_a3-555.jpg
r804_612.jpg
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r804_a670.jpg
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r904_2_a747.jpg
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r930_a3-704.jpg

113 File(s)

Bergart:

Granitporfyr

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Kopparmalm

171

Svavelkismalm

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Zinkmalm

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Mineral:

Svavelkis

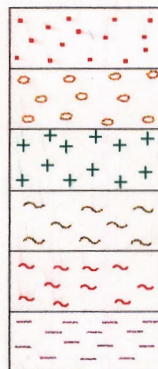
Zinkblände

Kopparkis

Magnetkis

Kvarts

Blyglöns



Kristinebergsgruvan
Geologiska beteckningar

 boliden

Skala: 1:500

Ritad

Kartref.

Filnamn:

Stompunkter i Kristinebergsgruvan

Nr	X	Y	Z	Typ	Kommentar
834	1621.341	2498.480	948.617	0	96020202
835	1611.593	2476.865	950.704	0	96020202
836	1591.711	2480.419	951.632	0	96020202
837	1574.728	2598.305	967.650	0	96020202
838	1563.813	2670.055	977.376	0	96020202
839	1583.061	2676.570	979.616	0	96020202
840	1594.419	2665.611	981.315	0	96020202
841	1590.761	2595.907	992.505	0	96020202
842	1686.598	2223.060	685.135	0	96040402