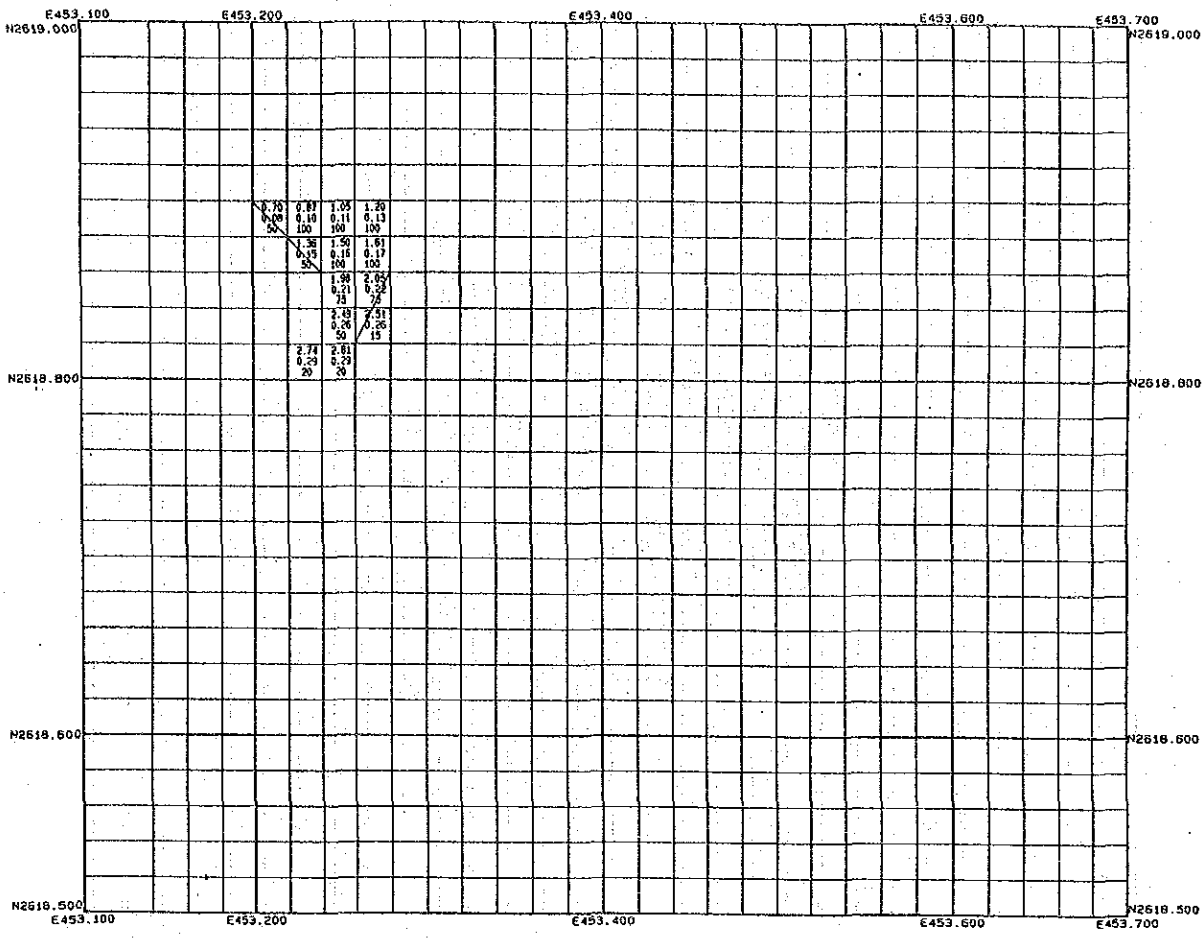
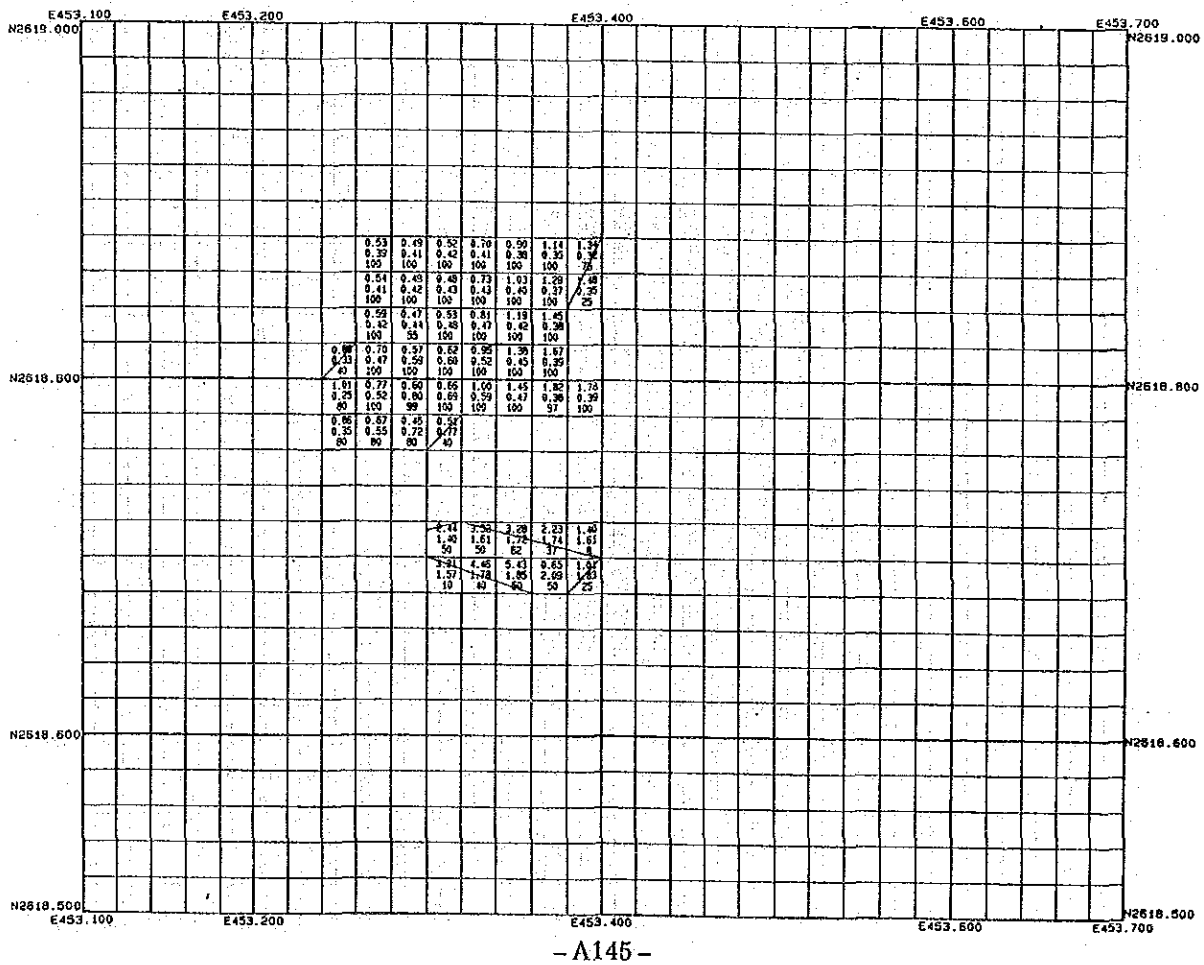
Appendix 17

Distribution map of the ore blocks for each level in the Hayl as Safil deposit

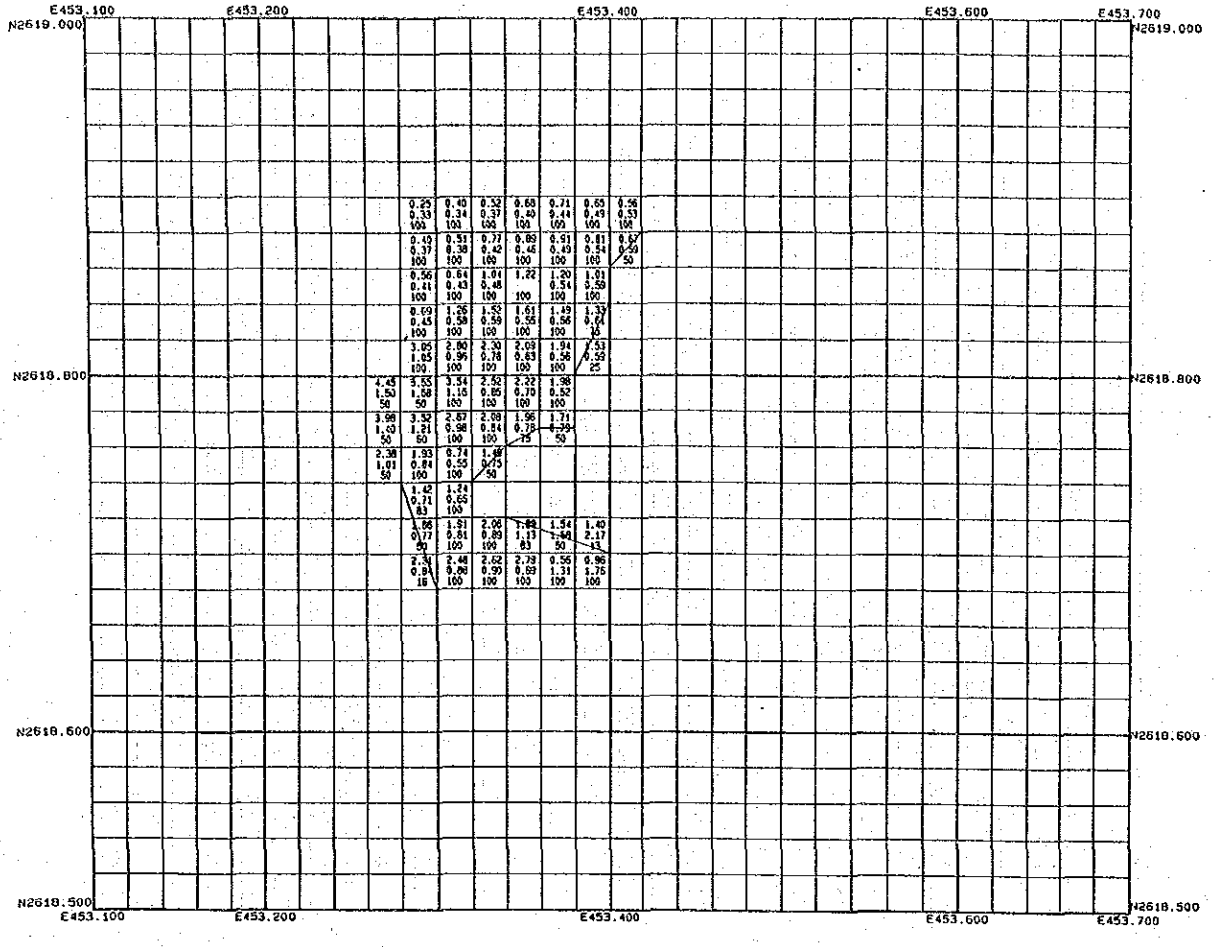
Hayl As Safil : Cu and Au (670 m) Cut-off 0.20



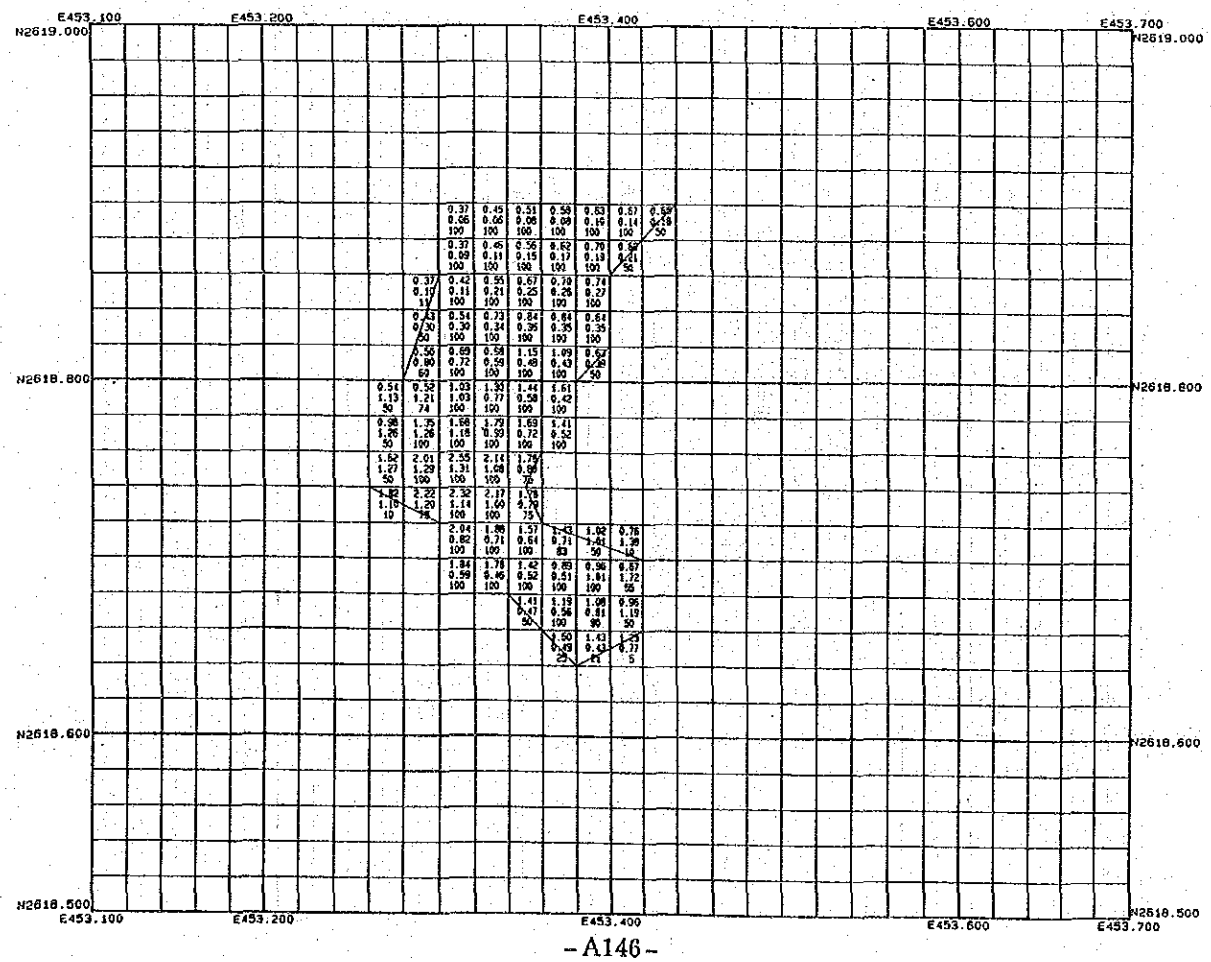
Hayl As Safil : Cu and Au (660 m) Cut-off 0.20



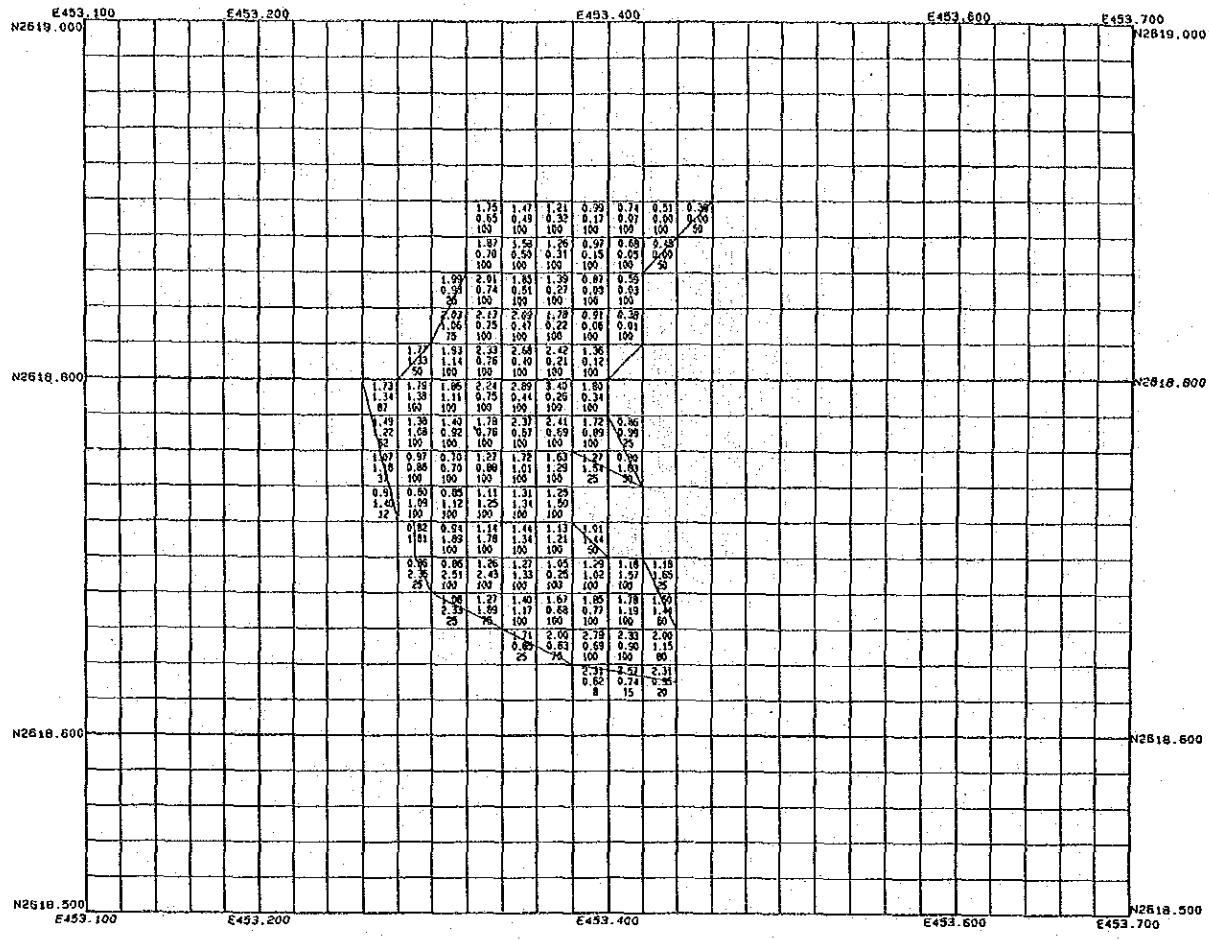
Hayl As Safil : Cu and Au (650 m) Cut-off 0.20



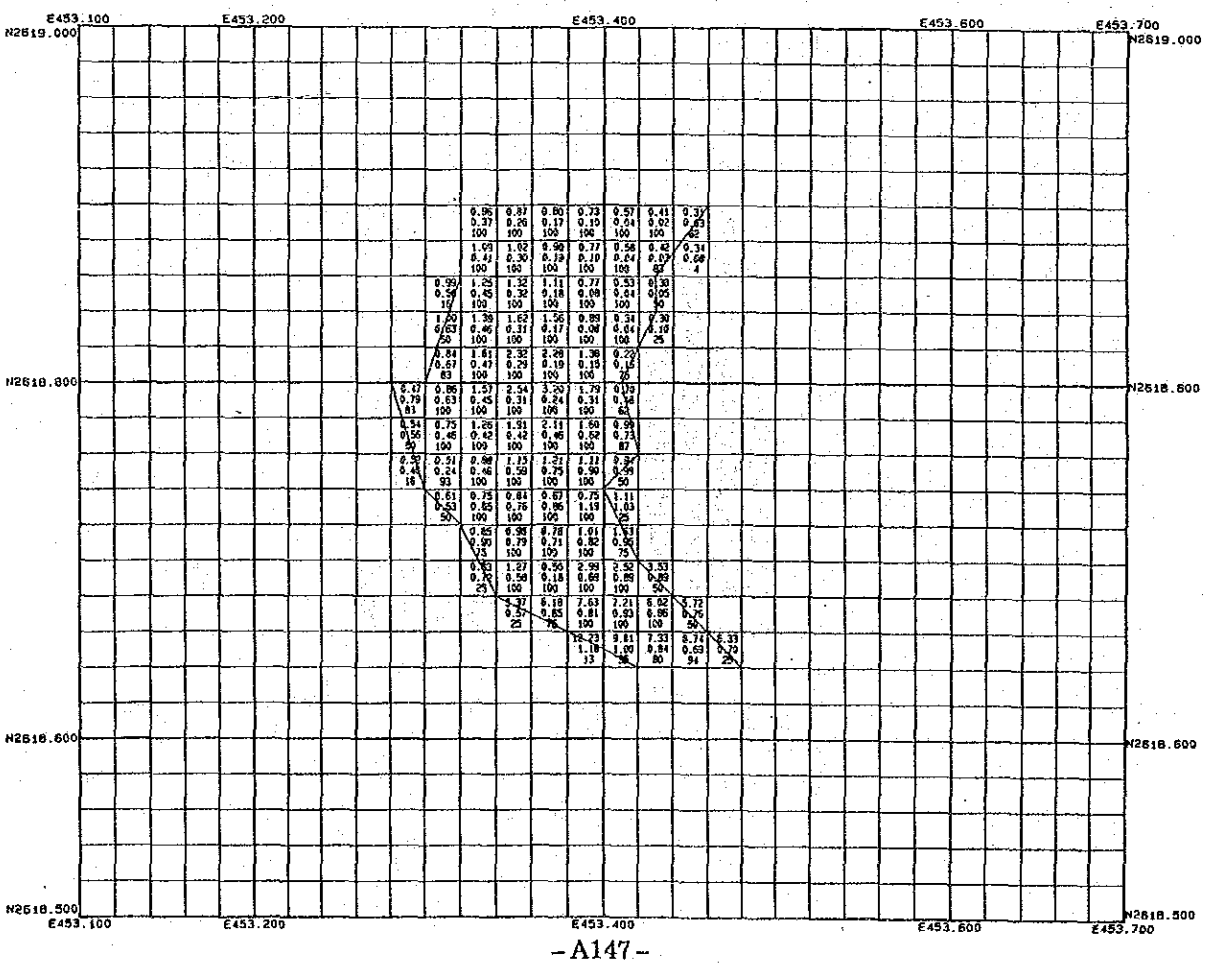
Hayl As Safil : Cu and Au (640 m) Cut-off 0.20



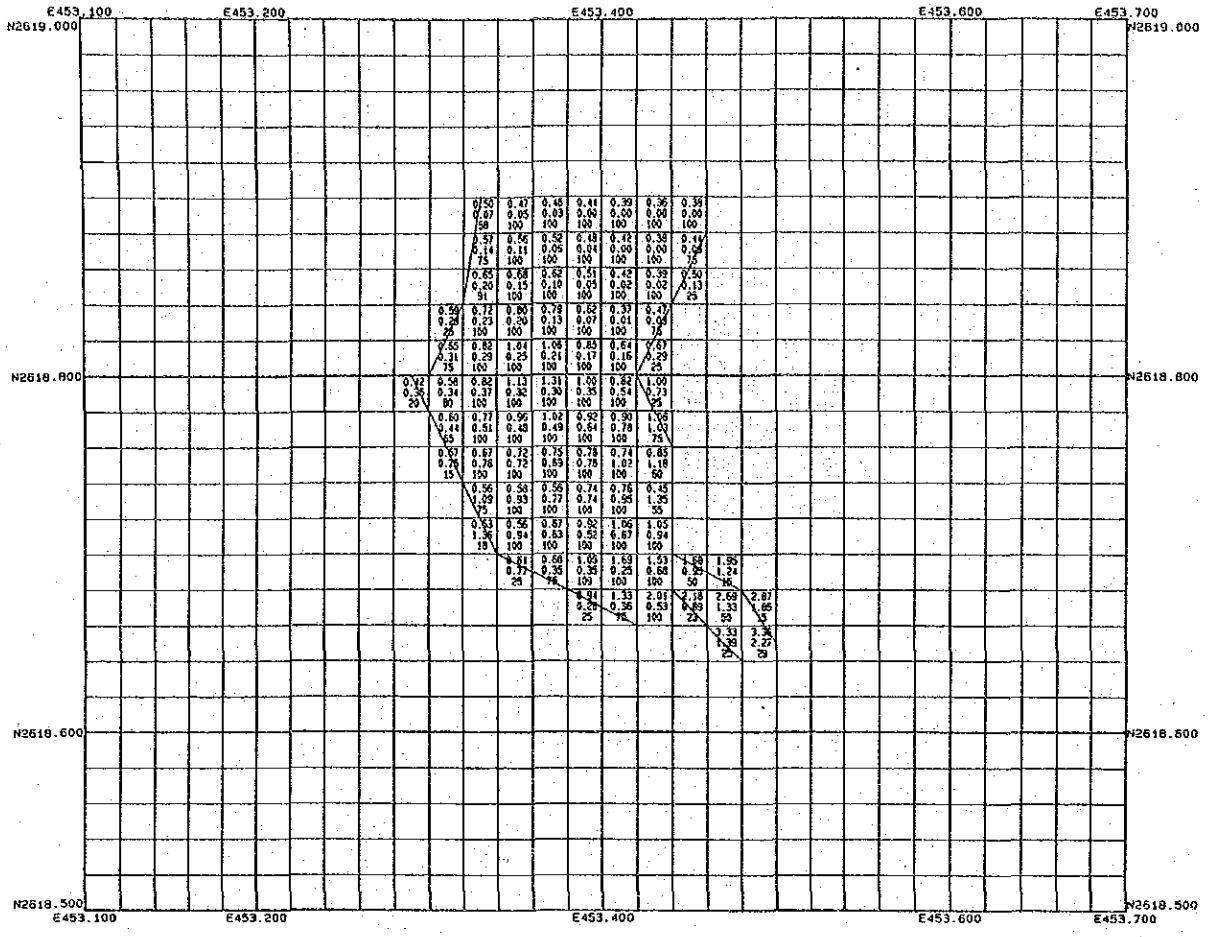
Hayl As Safil : Cu and Au (630 m) Cut-off 0.20



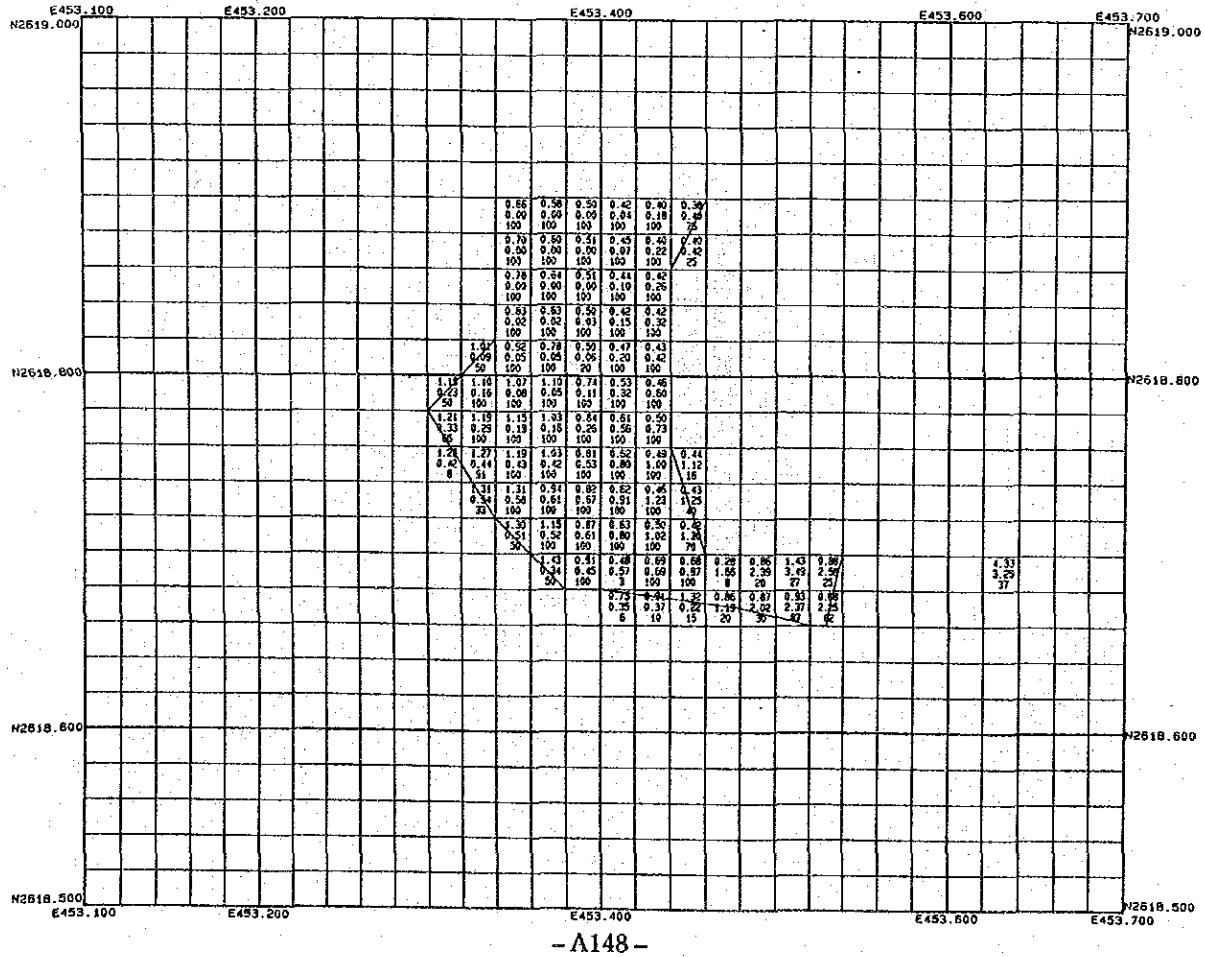
Hayl As Safil : Cu and Au (620 m) Cut-off 0.20



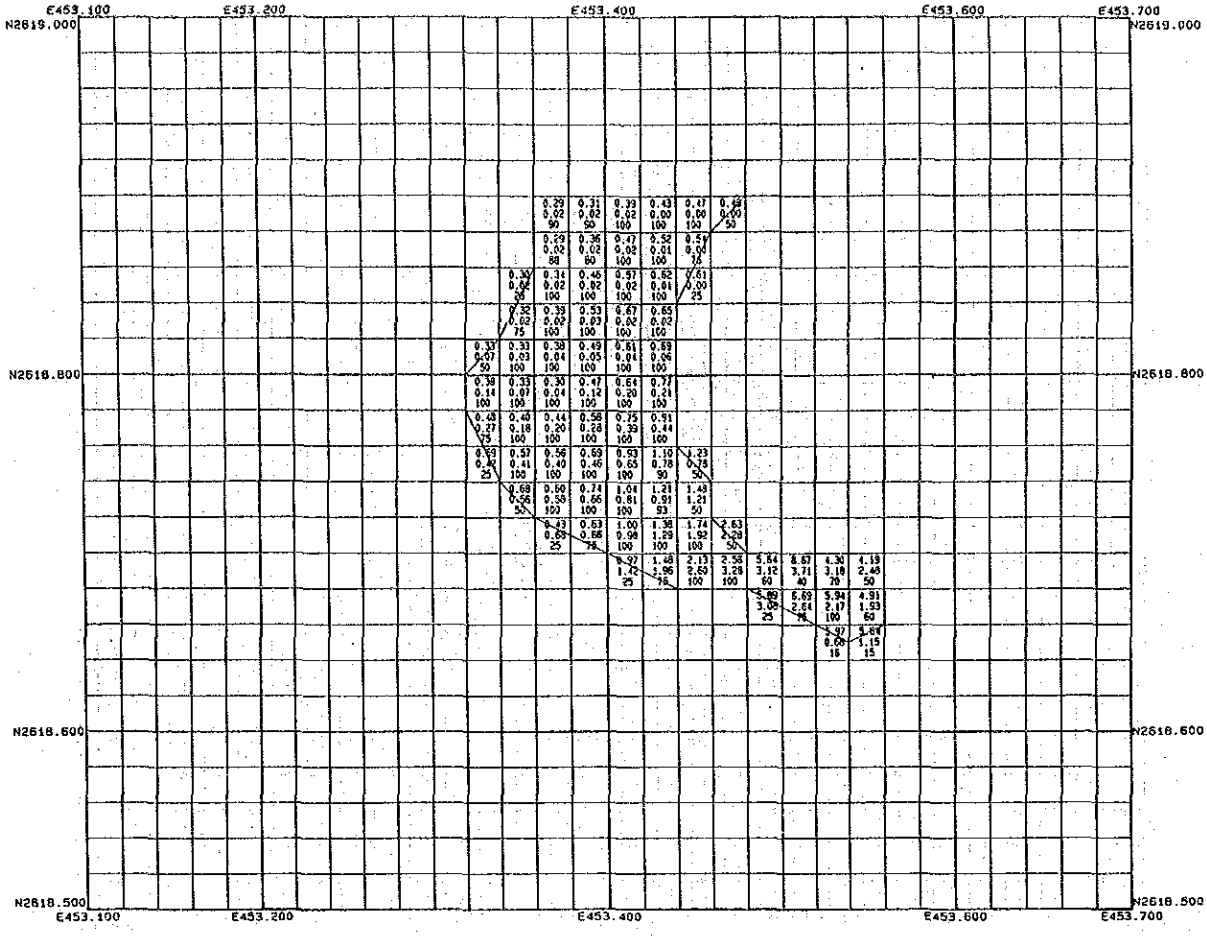
Hayl As Safil : Cu and Au (610 m) Cut-off 0.20



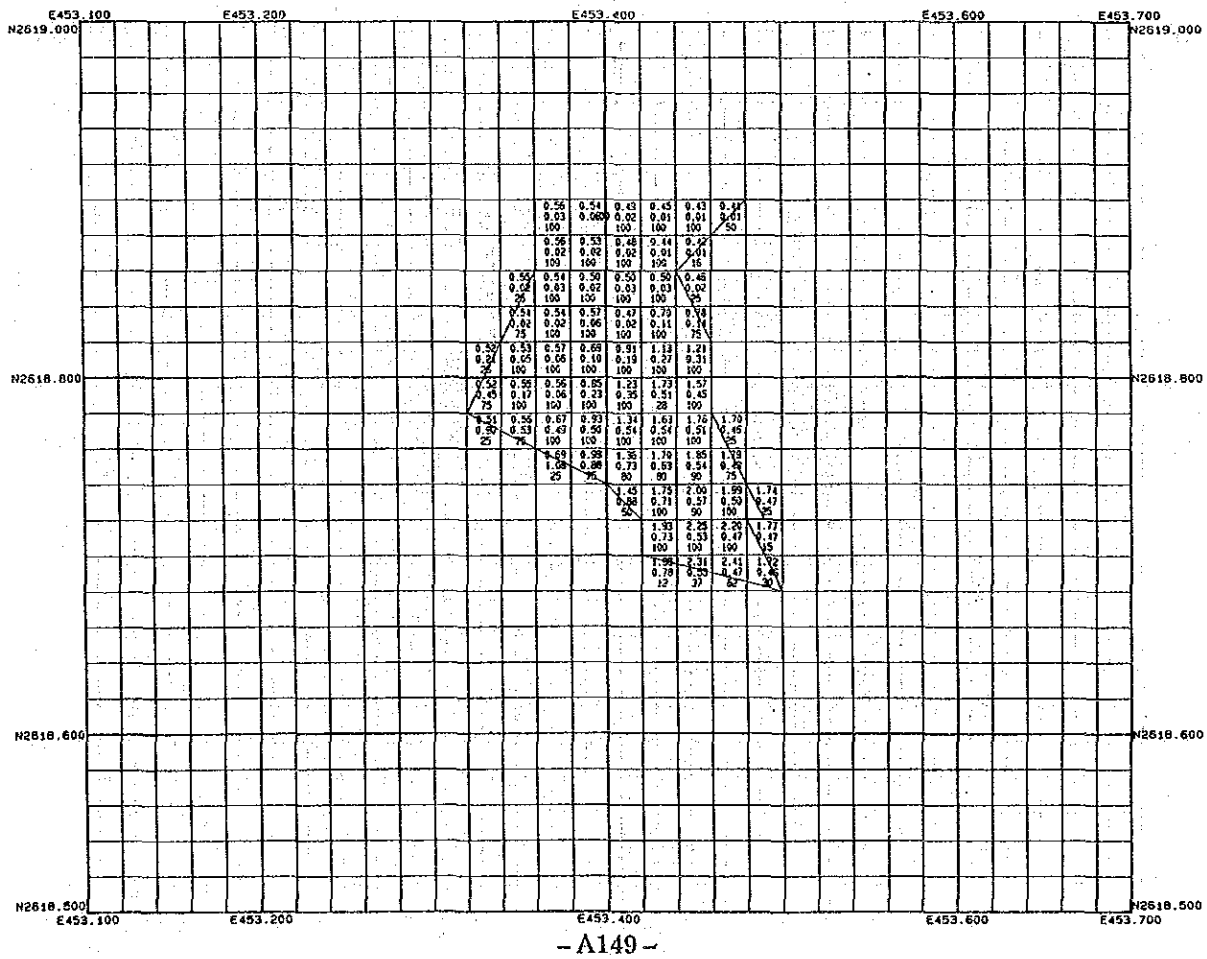
Hayl As Safil : Cu and Au (600 m) Cut-off 0.20



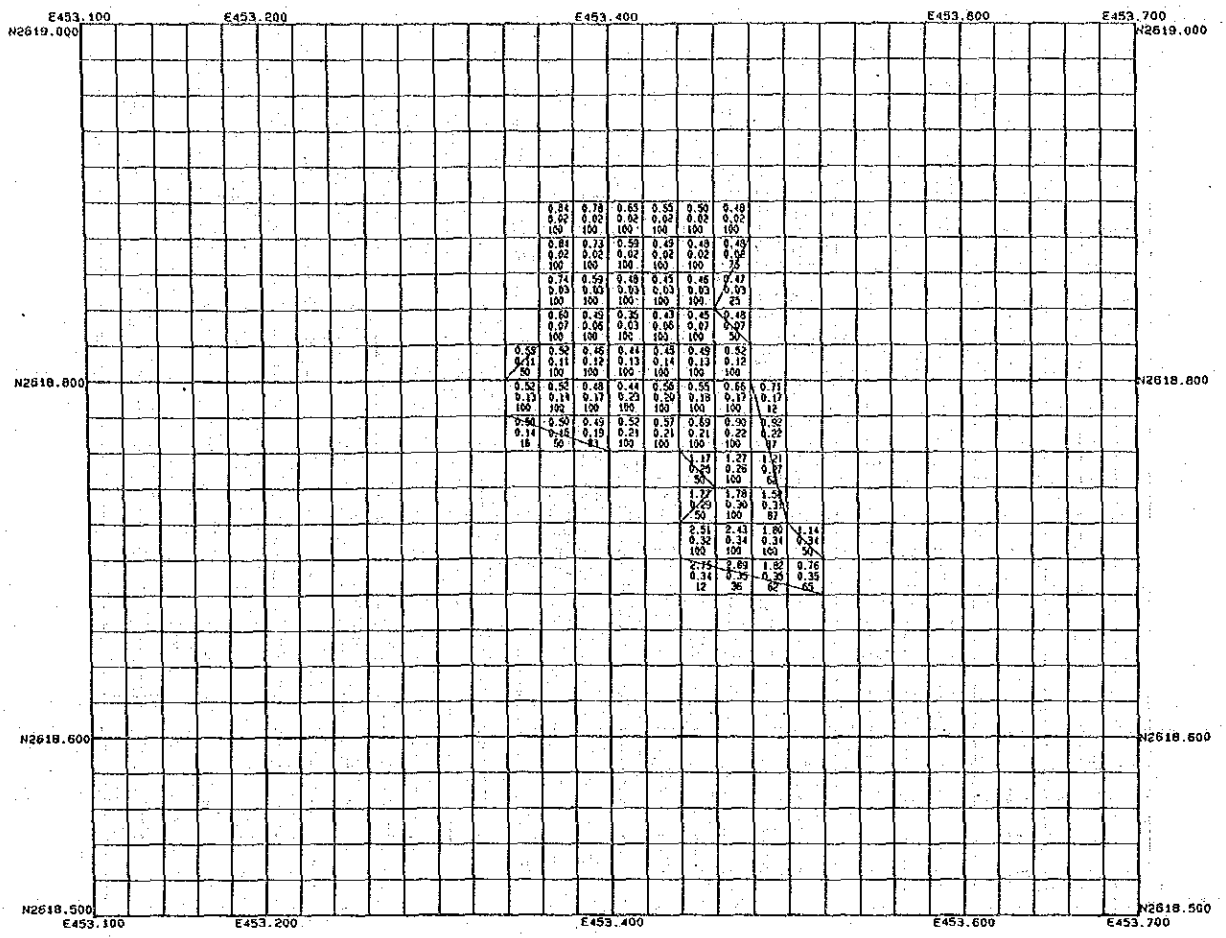
Hayl As Safil : Cu and Au (590 m) Cut-off 0.20



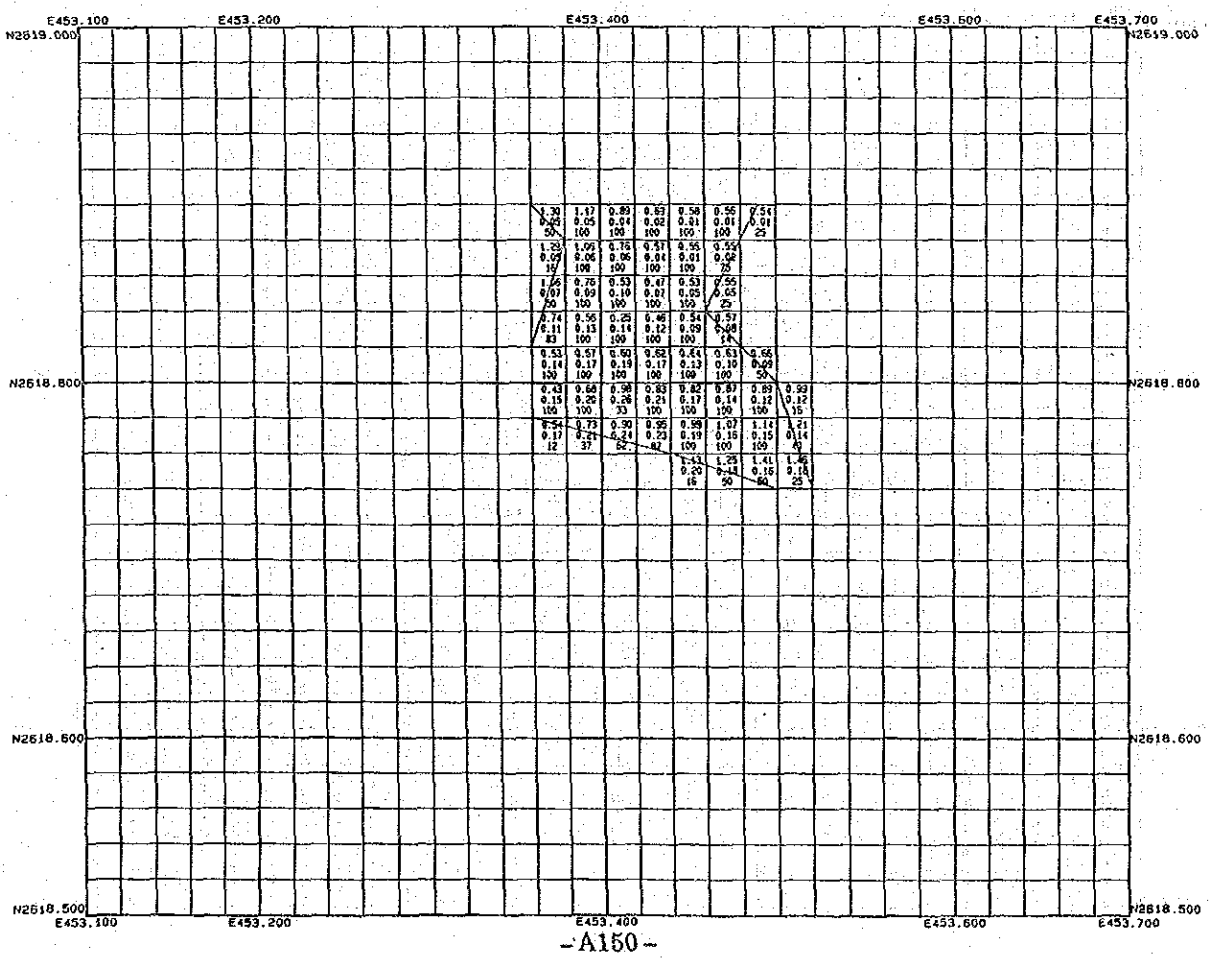
Hayl As Safil : Cu and Au (580 m) Cut-off 0.20



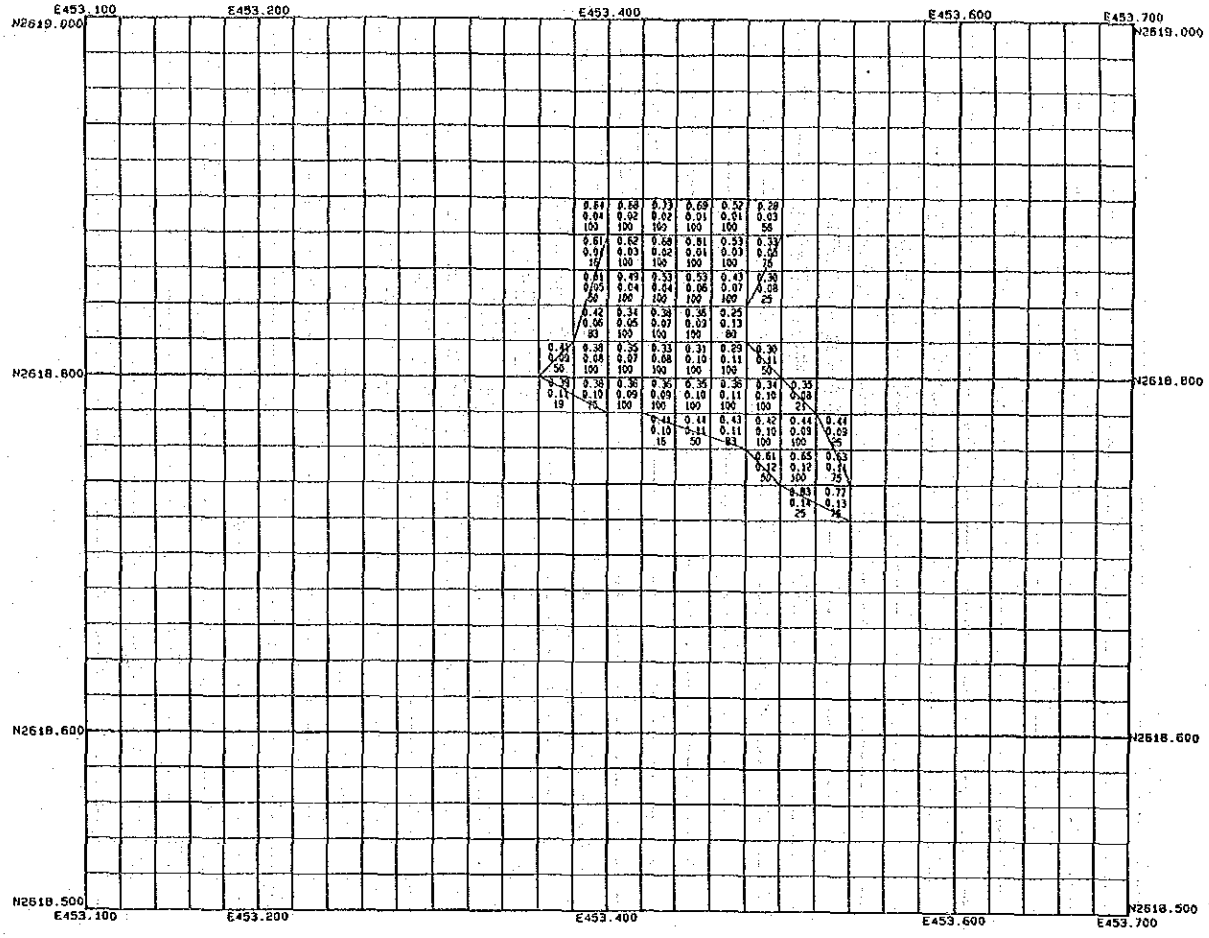
Hayl As Safil : Cu and Au (570 m) Cut-off 0.20



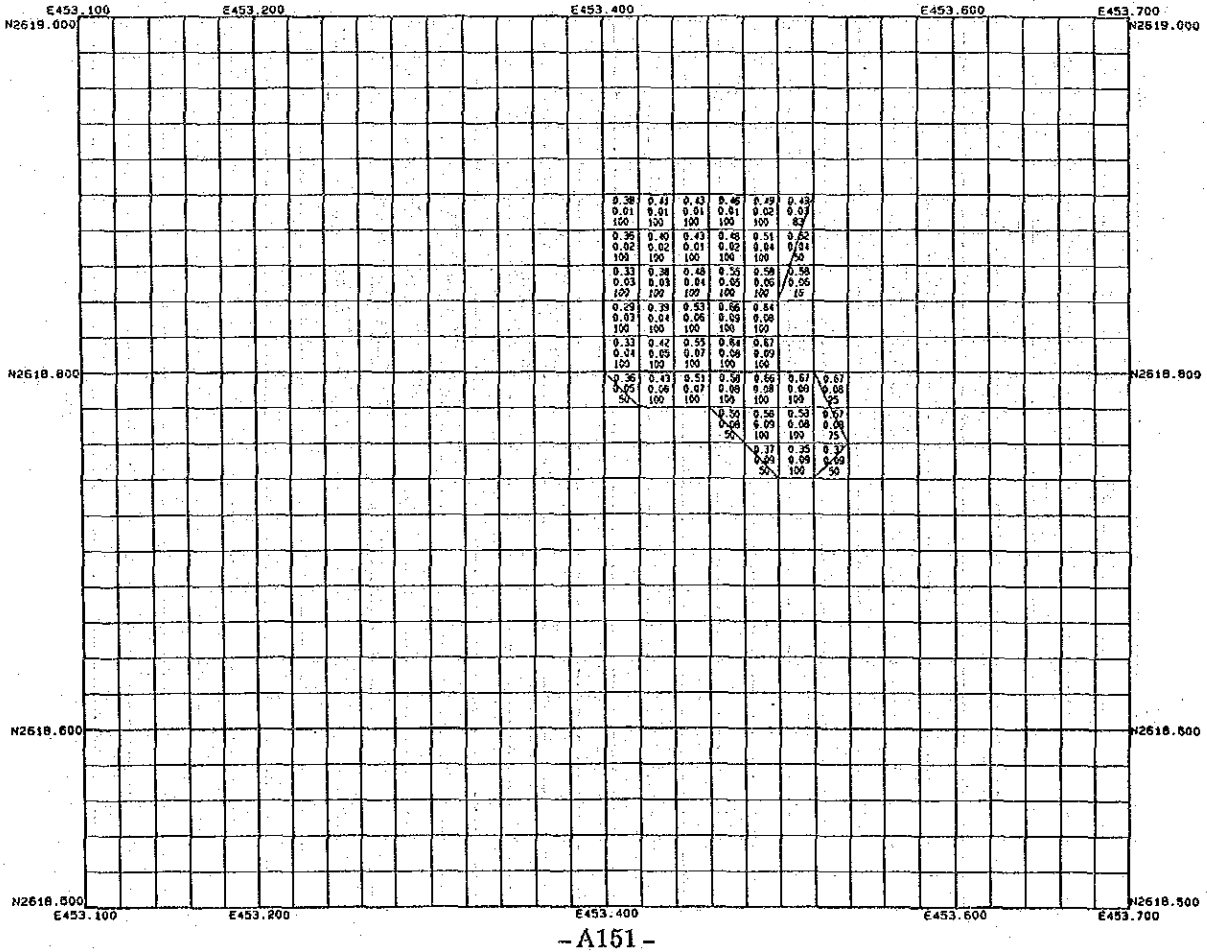
Hayl As Safil : Cu and Au (560 m) Cut-off 0.20



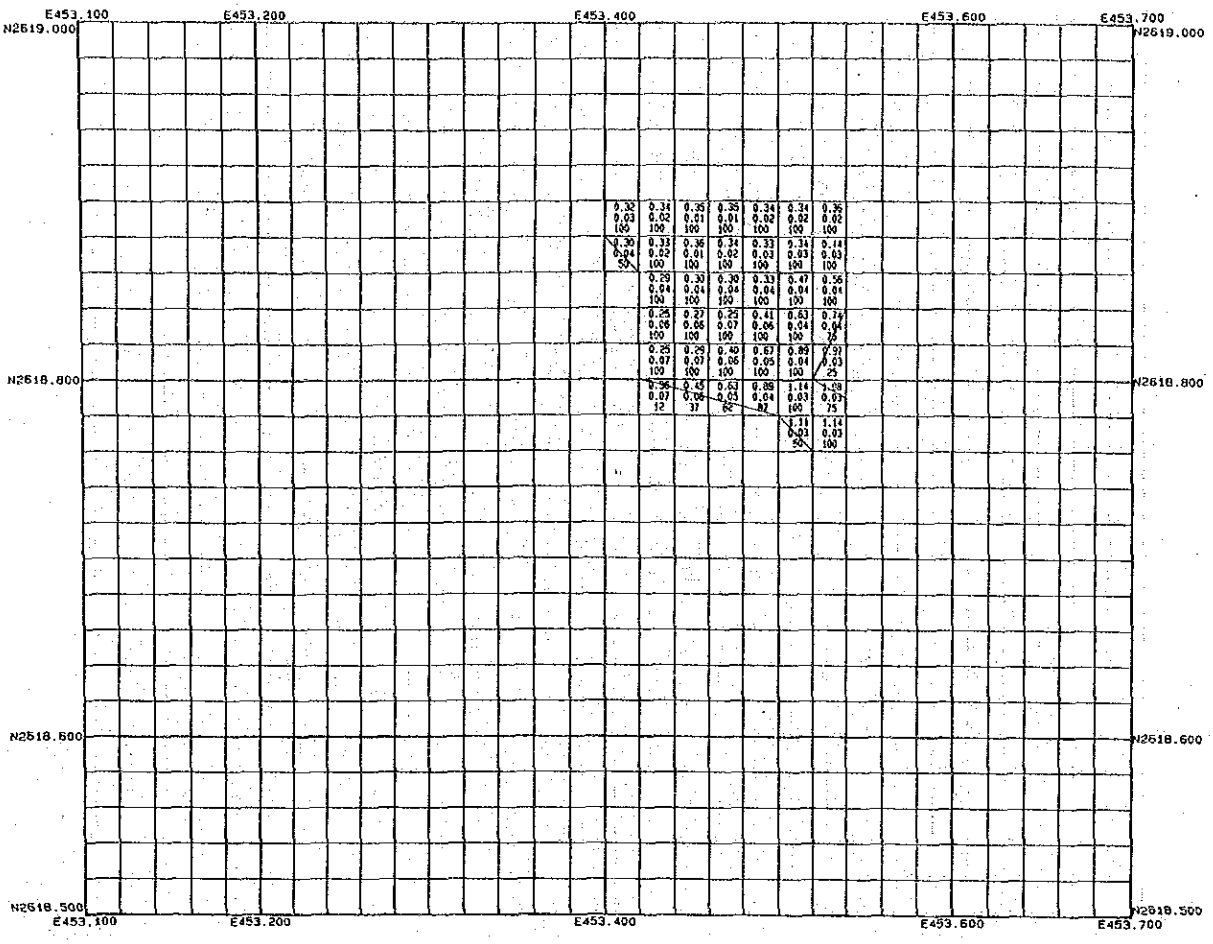
Hayl As Safil : Cu and Au (550 m) Cut-off 0.20



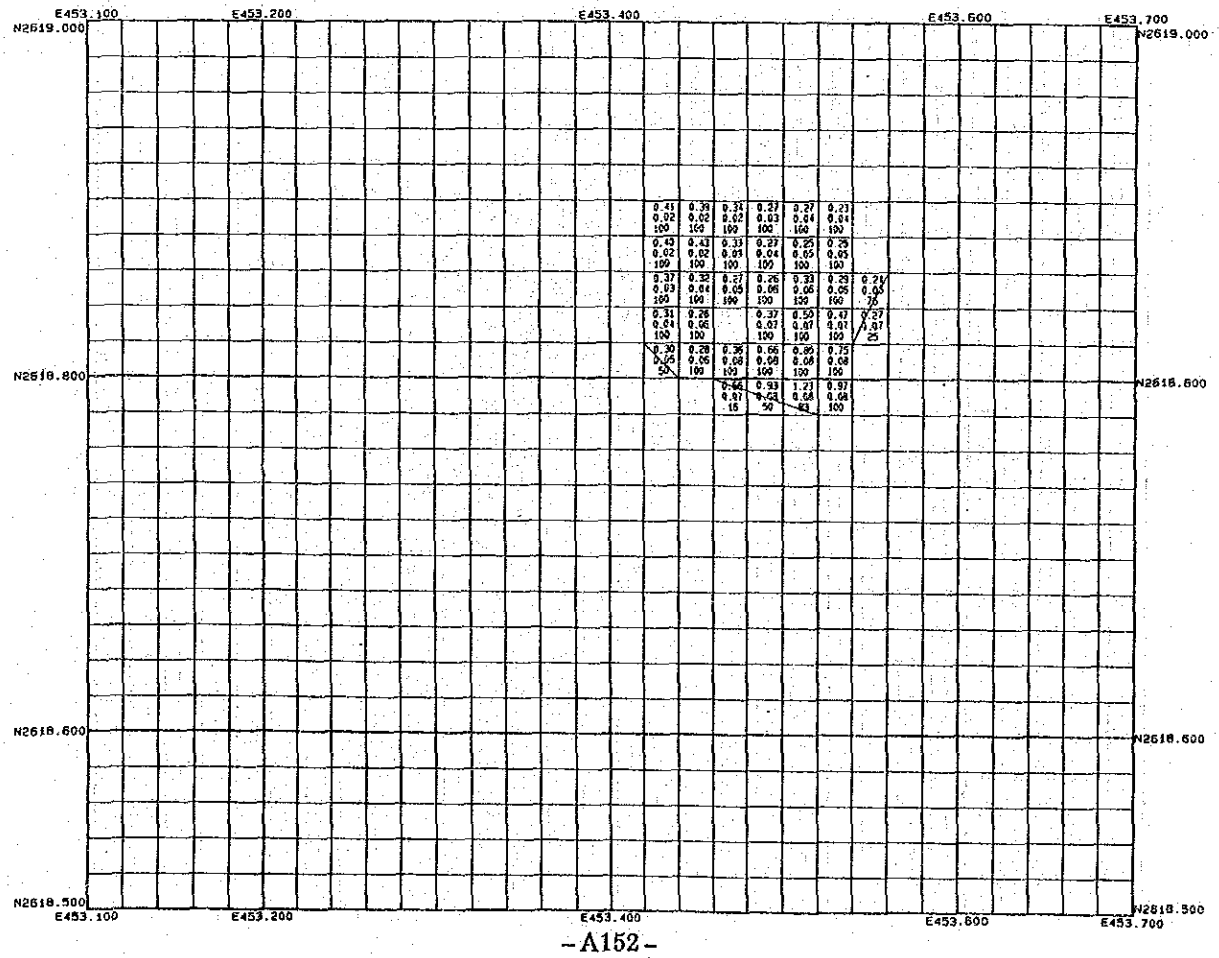
Hayl As Safil : Cu and Au (540 m) Cut-off 0.20



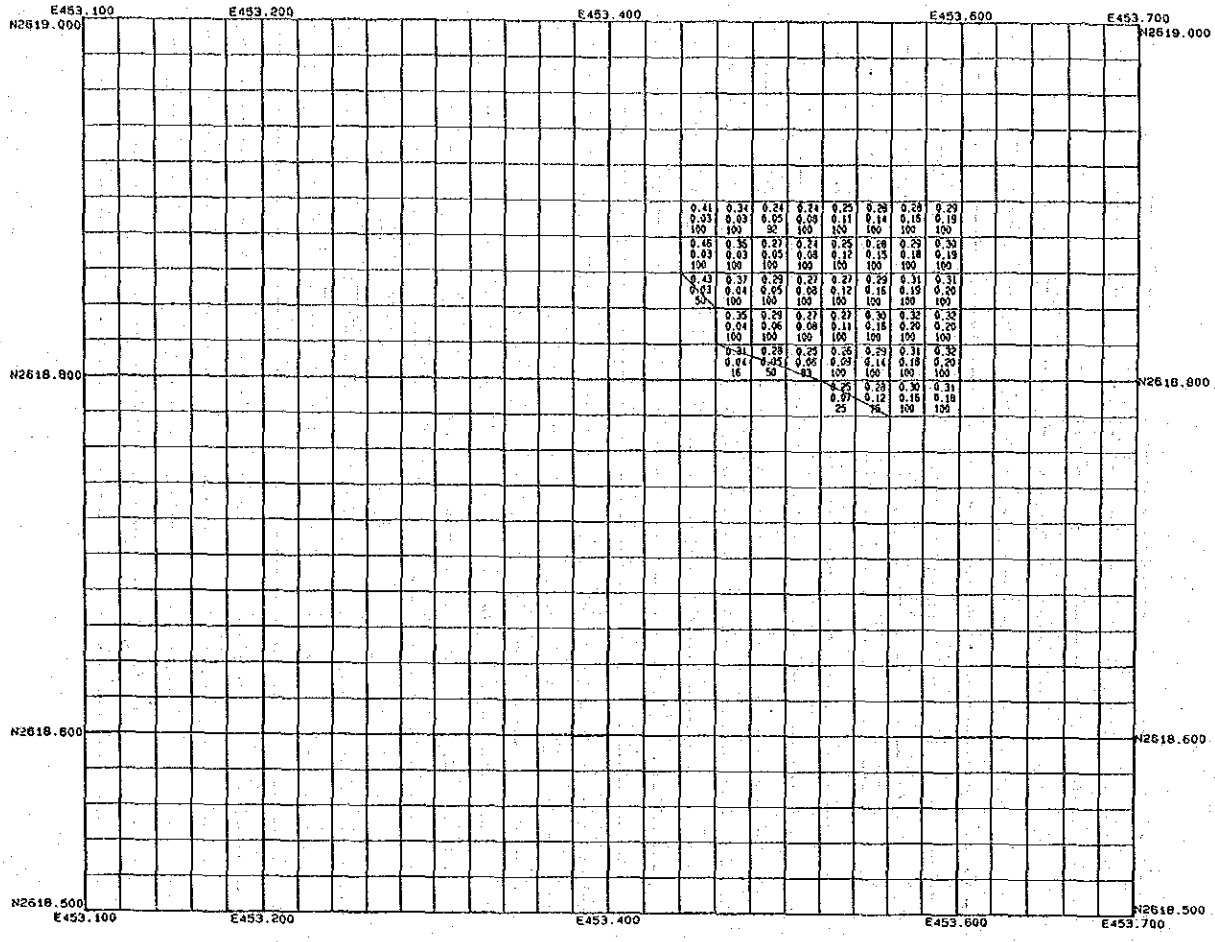
Hayl As Safil : Cu and Au (530 m) Cut-off 0.20



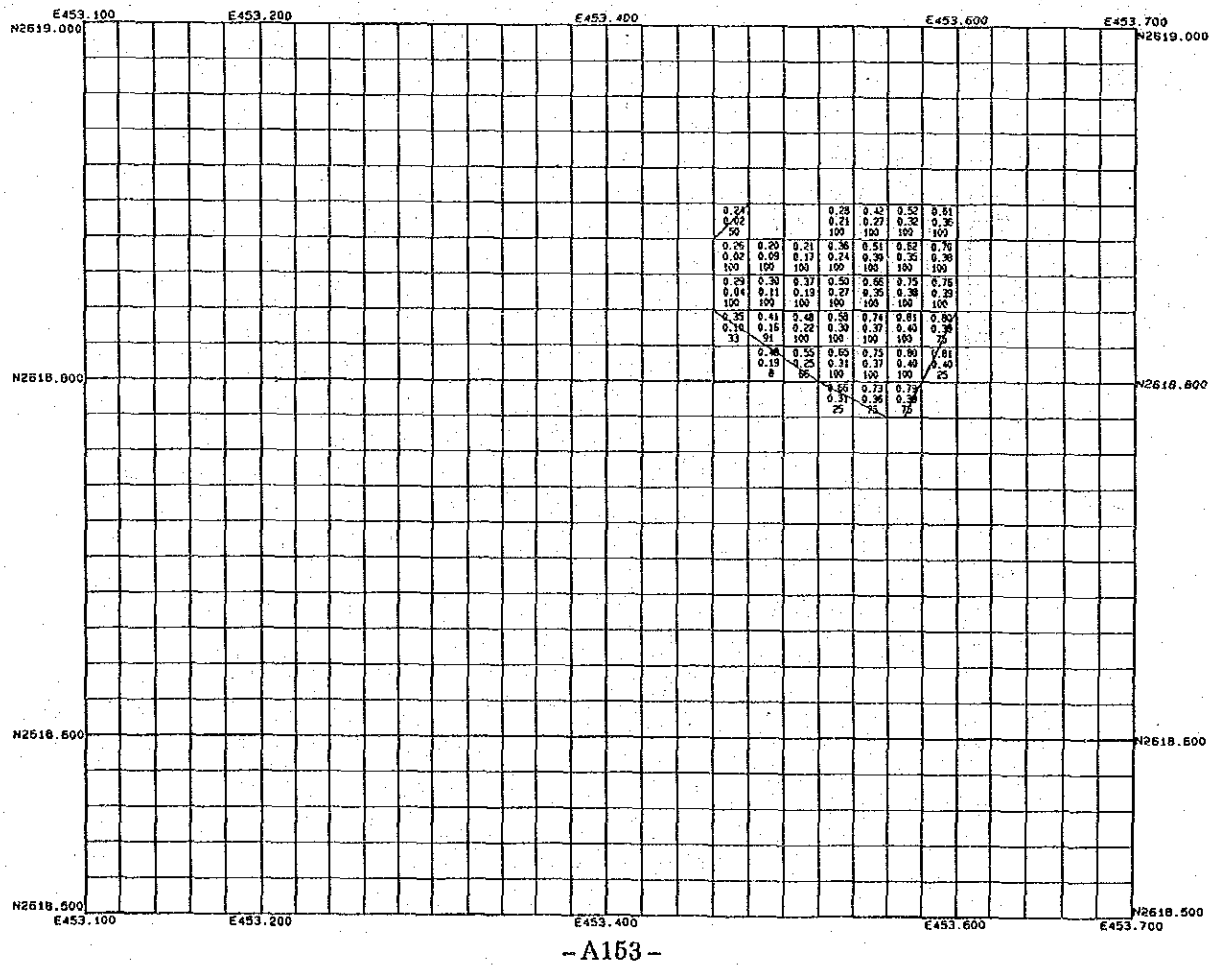
Hayl As Safil : Cu and Au (520 m) Cut-off 0.20



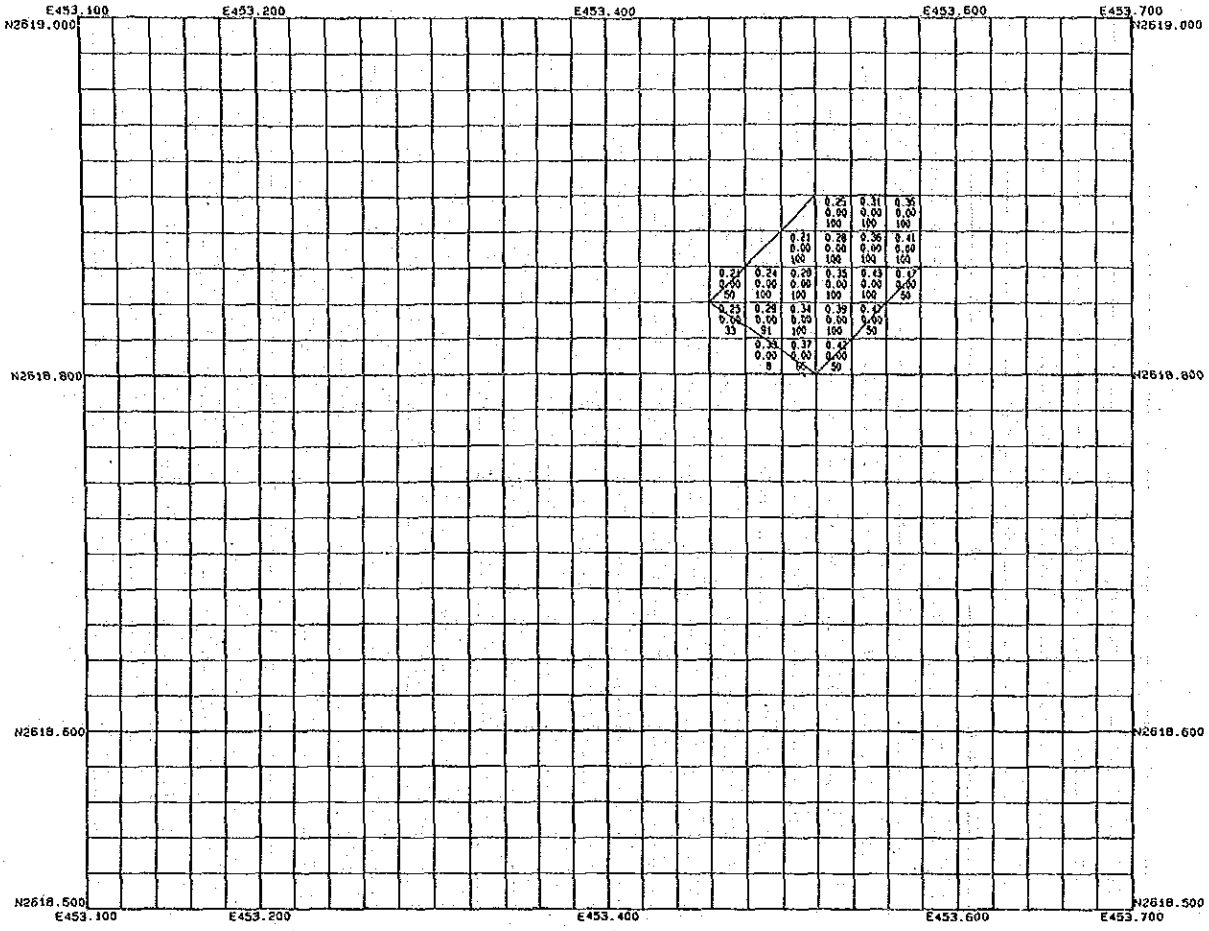
Hayl As Safil : Cu and Au (510 m) Cut-off 0.20



Hayl As Safil : Cu and Au (500 m) Cut-off 0.20



Hayl As Safil : Cu and Au (490 m) Cut-off 0.20



0.94
0.61
100

Cu %
Au g/t
Volume % of ore

Appendix 18

List of ore reserves for each ore block in the Hayl as Safil deposit

Geological Ore Reserve
Hayl As Safil : 670 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453210	2618890	2000	3.03	6060	.70	42.42	.01	.61	.08	.48	.66	4.00
2	453230	2618810	800	3.30	2640	2.74	72.34	.01	.26	.29	.77	2.57	6.78
3	453230	2618870	2000	3.12	6240	1.36	84.86	.01	.62	.15	.94	1.28	7.99
4	453230	2618890	4000	3.05	12200	.87	106.14	.01	1.22	.10	1.22	.81	9.88
5	453250	2618810	800	3.31	2648	2.81	74.41	.01	.26	.29	.77	2.64	6.99
6	453250	2618830	2000	3.27	6540	2.49	162.85	.01	.65	.26	1.70	2.33	15.24
7	453250	2618850	3000	3.20	9600	1.98	190.08	.01	.96	.21	2.02	1.85	17.76
8	453250	2618870	4000	3.14	12560	1.50	188.40	.01	1.26	.16	2.01	1.41	17.71
9	453250	2618890	4000	3.08	12320	1.05	129.36	.01	1.23	.11	1.36	.98	12.07
10	453270	2618830	600	3.27	1962	2.51	49.25	.01	.20	.26	.51	2.35	4.61
11	453270	2618850	3000	3.21	9630	2.05	197.41	.01	.96	.22	2.12	1.92	18.49
12	453270	2618870	4000	3.15	12600	1.61	202.86	.01	1.26	.17	2.14	1.51	19.03
13	453270	2618890	4000	3.10	12400	1.20	148.80	.01	1.24	.13	1.61	1.12	13.89
			34200		107400		1649.18		10.74		17.64		154.44

Geological Ore Reserve
Hayl As Safil : 660 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453250	2618770	3200	3.03	9696	.86	83.39	.03	2.91	.35	3.39	4.88	47.32
2	453250	2618790	3200	3.05	9760	1.01	98.58	.01	.98	.25	2.44	5.86	57.19
3	453250	2618810	1600	3.03	4848	.86	41.69	.09	4.36	.33	1.60	4.89	23.71
4	453270	2618770	3200	3.00	9600	.67	64.32	.07	6.72	.55	5.28	3.40	32.64
5	453270	2618790	4000	3.01	12040	.77	92.71	.09	10.84	.52	6.26	3.86	46.47
6	453270	2618810	4000	3.00	12000	.70	84.00	.15	18.00	.47	5.64	3.73	44.76
7	453270	2618830	4000	2.99	11960	.59	70.56	.22	26.31	.42	5.02	3.38	40.42
8	453270	2618850	4000	2.98	11920	.54	64.37	.25	29.80	.41	4.89	3.22	38.38
9	453270	2618870	4000	2.98	11920	.53	63.18	.25	29.80	.39	4.65	3.32	39.57
10	453290	2618770	3200	2.97	9504	.46	43.72	.10	9.50	.72	6.84	1.73	16.44
11	453290	2618790	3960	2.99	11840	.60	71.04	.15	17.76	.80	9.47	2.13	25.22
12	453290	2618810	4000	2.98	11920	.57	67.94	.21	25.03	.59	7.03	2.69	32.06
13	453290	2618830	2228	2.97	6617	.47	31.10	.29	19.19	.44	2.91	2.75	18.20
14	453290	2618850	4000	2.97	11880	.49	58.21	.28	33.26	.42	4.99	2.97	35.28
15	453290	2618870	4000	2.97	11880	.49	58.21	.28	33.26	.41	4.87	3.03	36.00
16	453310	2618690	400	3.32	1328	3.31	43.96	.05	.66	1.57	2.08	8.53	11.33
17	453310	2618710	2000	3.21	6420	2.44	156.65	.06	3.85	1.40	8.99	6.25	40.13
18	453310	2618770	1600	2.97	4752	.51	24.24	.10	4.75	.77	3.66	1.22	5.80
19	453310	2618790	4000	3.00	12000	.66	79.20	.15	18.00	.69	8.28	1.98	23.76
20	453310	2618810	4000	2.99	11960	.62	74.15	.22	26.31	.60	7.18	2.41	28.82
21	453310	2618830	4000	2.98	11920	.53	63.18	.27	32.18	.48	5.72	2.67	31.83
22	453310	2618850	4000	2.97	11880	.48	57.02	.29	34.45	.43	5.11	2.80	33.26
23	453310	2618870	4000	2.98	11920	.52	61.98	.28	33.38	.42	5.01	2.84	33.85
24	453330	2618690	1600	3.46	5536	4.46	246.91	.05	2.77	1.78	9.85	11.72	64.88
25	453330	2618710	2000	3.32	6640	3.32	220.45	.06	3.98	1.61	10.69	8.80	58.43
26	453330	2618790	4000	3.05	12200	1.00	122.00	.13	15.86	.59	7.20	2.32	28.30
27	453330	2618810	4000	3.04	12160	.95	115.52	.17	20.67	.52	6.32	2.49	30.28
28	453330	2618830	4000	3.02	12080	.81	97.85	.22	26.58	.47	5.68	2.70	32.62
29	453330	2618850	4000	3.01	12040	.73	87.89	.25	30.10	.43	5.18	2.73	32.87
30	453330	2618870	4000	3.00	12000	.70	84.00	.25	30.00	.41	4.92	2.72	32.64
31	453350	2618690	2000	3.58	7160	5.43	388.79	.04	2.86	1.85	13.25	14.10	100.96
32	453350	2618710	2500	3.32	8300	3.28	272.24	.08	6.64	1.72	14.28	10.37	86.07
33	453350	2618790	4000	3.12	12480	1.46	182.21	.09	11.23	.47	5.87	2.93	36.57
34	453350	2618810	4000	3.10	12400	1.38	171.12	.12	14.88	.45	5.58	2.88	35.71

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
35	453350	2618830	4000	3.08	12320	1.19	146.61	.16	19.71	.42	5.17	2.81	34.62
36	453350	2618850	4000	3.05	12200	1.03	125.66	.20	24.40	.40	4.88	2.67	32.57
37	453350	2618870	4000	3.03	12120	.90	109.08	.22	26.66	.38	4.61	2.59	31.39
38	453370	2618690	2000	2.99	5980	.65	38.87	.03	1.79	2.09	12.50	8.05	48.14
39	453370	2618710	1500	3.19	4785	2.23	106.71	.15	7.18	1.74	8.33	10.70	51.20
40	453370	2618790	3880	3.17	12300	1.82	223.85	.06	7.38	.38	4.67	3.08	37.88
41	453370	2618810	4000	3.15	12600	1.67	210.42	.08	10.08	.39	4.91	2.99	37.67
42	453370	2618830	4000	3.12	12480	1.45	180.96	.12	14.98	.38	4.74	2.82	35.19
43	453370	2618850	4000	3.09	12360	1.28	158.21	.15	18.54	.37	4.57	2.67	33.00
44	453370	2618870	4000	3.07	12280	1.14	139.99	.18	22.10	.35	4.30	2.46	30.21
45	453390	2618690	1000	3.04	3040	1.01	30.70	.18	5.47	1.83	5.56	10.07	30.61
46	453390	2618710	356	3.10	1104	1.40	15.45	.31	3.42	1.61	1.78	11.85	13.08
47	453390	2618790	4000	3.16	12640	1.78	224.99	.07	8.85	.39	4.93	3.14	39.69
48	453390	2618850	1000	3.12	3120	1.48	46.18	.12	3.74	.35	1.09	2.70	8.42
49	453390	2618870	3000	3.10	9300	1.34	124.62	.15	13.95	.32	2.98	2.45	22.79
			157424		481190		5424.66		775.16		285.15		1768.25

Geological Ore Reserve
Hayl As Safil : 650 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453270	2618750	2000	3.23	6460	2.38	153.75	.03	1.94	1.01	6.52	4.40	28.42
2	453270	2618770	2000	3.45	6900	3.98	274.62	.03	2.07	1.40	9.66	5.79	39.95
3	453270	2618790	2000	3.51	7020	4.45	312.39	.06	4.21	1.50	10.53	6.26	43.95
4	453290	2618690	668	3.23	2158	2.31	49.84	.04	.86	.84	1.81	8.49	18.32
5	453290	2618710	2000	3.17	6340	1.86	117.92	.04	2.54	.77	4.88	6.49	41.15
6	453290	2618730	3332	3.10	10329	1.42	146.67	.03	3.10	.71	7.33	3.93	40.59
7	453290	2618750	4000	3.17	12680	1.93	244.72	.03	3.80	.84	10.65	3.49	44.25
8	453290	2618770	2400	3.39	8136	3.52	286.39	.03	2.44	1.21	9.84	5.00	40.68
9	453290	2618790	2000	3.66	7320	5.55	406.26	.03	2.20	1.68	12.30	7.04	51.53
10	453290	2618810	4000	3.32	13280	3.05	405.04	.14	18.59	1.05	13.94	4.47	59.36
11	453290	2618830	4000	3.00	12000	.69	82.80	.24	28.80	.45	5.40	1.98	23.76
12	453290	2618850	4000	2.98	11920	.56	66.75	.24	28.61	.41	4.89	1.81	21.58
13	453290	2618870	4000	2.96	11840	.40	47.36	.23	27.23	.37	4.38	1.63	19.30
14	453290	2618890	4000	2.94	11760	.25	29.40	.23	27.05	.33	3.88	1.47	17.29
15	453310	2618690	4000	3.26	13040	2.48	323.39	.05	6.52	.88	11.48	9.96	129.88
16	453310	2618710	4000	3.18	12720	1.91	242.95	.05	6.36	.81	10.30	8.01	101.89
17	453310	2618730	4000	3.08	12320	1.24	152.77	.04	4.93	.66	8.13	4.32	53.22
18	453310	2618750	4000	3.01	12040	.74	89.10	.03	3.61	.55	6.62	2.31	27.81
19	453310	2618770	4000	3.27	13080	2.67	349.24	.04	5.23	.98	12.82	4.45	58.21
20	453310	2618790	4000	3.39	13560	3.54	480.02	.07	9.49	1.16	15.73	5.23	70.92
21	453310	2618810	4000	3.29	13160	2.80	368.48	.14	18.42	.96	12.63	4.24	55.80
22	453310	2618830	4000	3.08	12320	1.26	155.23	.21	25.87	.58	7.15	2.56	31.54
23	453310	2618850	4000	2.99	11960	.64	76.54	.24	28.70	.43	5.14	1.90	22.72
24	453310	2618870	4000	2.98	11920	.51	60.79	.24	28.61	.38	4.53	1.71	20.38
25	453310	2618890	4000	2.96	11840	.40	47.36	.23	27.23	.34	4.03	1.54	18.23
26	453330	2618690	4000	3.28	13120	2.62	343.74	.05	6.56	.90	11.81	10.85	142.35
27	453330	2618710	4000	3.20	12800	2.06	263.68	.06	7.68	.89	11.39	10.40	133.12
28	453330	2618750	2000	3.11	6220	1.46	90.81	.06	3.73	.75	4.67	5.37	33.40
29	453330	2618770	4000	3.20	12800	2.08	266.24	.07	8.96	.84	10.75	5.24	67.07
30	453330	2618790	4000	3.25	13000	2.52	327.60	.10	13.00	.85	11.05	4.67	60.71
31	453330	2618810	4000	3.22	12880	2.30	296.24	.14	18.03	.76	9.79	3.86	49.72
32	453330	2618830	4000	3.12	12480	1.52	189.70	.19	23.71	.59	7.36	2.93	36.57
33	453330	2618850	4000	3.05	12200	1.04	126.88	.21	25.62	.48	5.86	2.33	28.43
34	453330	2618870	4000	3.01	12040	.77	92.71	.22	26.49	.42	5.06	1.96	23.60
35	453330	2618890	4000	2.98	11920	.52	61.98	.22	26.22	.37	4.41	1.65	19.67

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
36	453350	2618690	4000	3.31	13240	2.79	369.40	.04	5.30	.89	11.78	11.07	146.57
37	453350	2618710	3332	3.18	10596	1.89	200.26	.11	11.66	1.13	11.97	14.01	148.45
38	453350	2618770	3000	3.18	9540	1.96	186.98	.09	8.59	.78	7.44	6.35	60.58
39	453350	2618790	4000	3.22	12880	2.22	285.94	.11	14.17	.70	9.02	4.82	62.08
40	453350	2618810	4000	3.20	12800	2.09	267.52	.13	16.64	.63	8.06	3.86	49.41
41	453350	2618830	4000	3.13	12520	1.61	201.57	.16	20.03	.55	6.89	3.13	39.19
42	453350	2618850	4000	3.08	12320	1.22	150.30	.18	22.18	.51	6.28	2.61	32.16
43	453350	2618870	4000	3.03	12120	.89	107.87	.20	24.24	.46	5.58	2.14	25.94
44	453350	2618890	4000	3.00	12000	.68	81.60	.21	25.20	.40	4.80	1.76	21.12
45	453370	2618690	4000	2.98	11920	.56	66.75	.22	26.22	1.31	15.62	7.33	87.37
46	453370	2618710	2000	3.13	6260	1.54	96.40	.19	11.89	1.68	10.52	25.04	156.75
47	453370	2618770	2000	3.15	6300	1.71	107.73	.12	7.56	.79	4.98	7.65	48.20
48	453370	2618790	4000	3.19	12760	1.98	252.65	.11	14.04	.52	6.64	3.97	50.66
49	453370	2618810	4000	3.18	12720	1.94	246.77	.12	15.26	.56	7.12	3.88	49.35
50	453370	2618830	4000	3.12	12480	1.49	185.95	.14	17.47	.56	6.99	3.31	41.31
51	453370	2618850	4000	3.07	12280	1.20	147.36	.16	19.65	.54	6.63	2.77	34.02
52	453370	2618870	4000	3.03	12120	.91	110.29	.17	20.60	.49	5.94	2.25	27.27
53	453370	2618890	4000	3.00	12000	.71	85.20	.18	21.60	.44	5.28	1.79	21.48
54	453390	2618690	4000	3.04	12160	.96	116.74	.24	29.18	1.76	21.40	18.90	229.82
55	453390	2618710	520	3.11	1617	1.40	22.64	.27	4.37	2.17	3.51	28.84	46.64
56	453390	2618810	1000	3.12	3120	1.53	47.74	.11	3.43	.59	1.84	3.83	11.95
57	453390	2618830	3000	3.09	9270	1.33	123.29	.11	10.20	.61	5.65	3.51	32.54
58	453390	2618850	4000	3.05	12200	1.01	123.22	.13	15.86	.59	7.20	2.91	35.50
59	453390	2618870	4000	3.02	12080	.81	97.85	.15	18.12	.54	6.52	2.33	28.15
60	453390	2618890	4000	3.00	12000	.65	78.00	.16	19.20	.49	5.88	1.75	21.00
61	453410	2618870	2000	3.00	6000	.67	40.20	.12	7.20	.59	3.54	2.35	14.10
62	453410	2618890	4000	2.98	11920	.56	66.75	.14	16.69	.53	6.32	1.70	20.26
			215252		672786		10896.35		904.97		490.12		3217.21

Geological Ore Reserve
Hayl As Safil : 640 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453270	2618730	400	3.16	1264	1.82	23.00	.08	1.01	1.16	1.47	9.45	11.94
2	453270	2618750	2000	3.13	6260	1.62	101.41	.05	3.13	1.27	7.95	8.67	54.27
3	453270	2618770	2000	3.04	6080	.98	59.58	.03	1.82	1.26	7.66	5.56	33.80
4	453270	2618790	2000	2.97	5940	.54	32.08	.02	1.19	1.13	6.71	3.23	19.19
5	453290	2618730	3000	3.22	9660	2.22	214.45	.08	7.73	1.20	11.59	10.66	102.98
6	453290	2618750	4000	3.19	12760	2.01	256.48	.06	7.66	1.29	16.46	9.89	126.20
7	453290	2618770	4000	3.09	12360	1.35	166.86	.04	4.94	1.26	15.57	6.90	85.28
8	453290	2618790	2960	2.97	8791	.52	45.71	.01	.88	1.21	10.64	3.15	27.69
9	453290	2618810	2400	2.97	7128	.50	35.64	.03	2.14	.80	5.70	2.44	17.39
10	453290	2618830	2000	2.96	5920	.43	25.46	.05	2.96	.30	1.78	1.40	8.29
11	453290	2618850	444	2.95	1310	.37	4.85	.06	.79	.10	.13	.85	1.11
12	453310	2618690	4000	3.17	12680	1.84	233.31	.16	20.29	.59	7.48	7.53	95.48
13	453310	2618710	4000	3.20	12800	2.04	261.12	.13	16.64	.82	10.50	8.79	112.51
14	453310	2618730	4000	3.24	12960	2.32	300.67	.09	11.66	1.14	14.77	10.67	138.28
15	453310	2618750	4000	3.27	13080	2.55	333.54	.07	9.16	1.31	17.13	12.09	158.14
16	453310	2618770	4000	3.14	12560	1.68	211.01	.07	8.79	1.18	14.82	7.94	99.73
17	453310	2618790	4000	3.05	12200	1.03	125.66	.06	7.32	1.03	12.57	4.84	59.05
18	453310	2618810	4000	3.00	12000	.69	82.80	.06	7.20	.72	8.64	3.01	36.12
19	453310	2618830	4000	2.97	11880	.54	64.15	.06	7.13	.30	3.56	1.82	21.62
20	453310	2618850	4000	2.96	11840	.42	49.73	.06	7.10	.11	1.30	1.02	12.08
21	453310	2618870	4000	2.95	11800	.37	43.66	.05	7.08	.09	1.06	.79	9.32
22	453310	2618890	4000	2.95	11800	.37	43.66	.06	7.08	.06	.71	.70	8.26
23	453330	2618690	4000	3.16	12640	1.78	224.99	.18	22.75	.46	5.81	7.01	88.61
24	453330	2618710	4000	3.17	12680	1.88	238.38	.15	19.02	.71	9.00	7.44	94.34
25	453330	2618730	4000	3.22	12880	2.17	279.50	.12	15.46	1.00	12.88	9.29	119.66

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
26	453330	2618750	4000	3.21	12840	2.14	274.78	.11	14.12	1.08	13.87	9.41	120.82
27	453330	2618770	4000	3.16	12640	1.79	226.26	.12	15.17	.99	12.51	7.65	96.70
28	453330	2618790	4000	3.09	12360	1.30	160.68	.13	16.07	.77	9.52	5.16	63.78
29	453330	2618810	4000	3.04	12160	.98	119.17	.12	14.59	.59	7.17	3.56	43.29
30	453330	2618830	4000	3.00	12000	.73	87.60	.10	12.00	.34	4.08	2.24	26.88
31	453330	2618850	4000	2.98	11920	.55	65.56	.08	9.54	.21	2.50	1.36	16.21
32	453330	2618870	4000	2.96	11840	.46	54.46	.06	7.10	.11	1.30	.93	11.01
33	453330	2618890	4000	2.96	11840	.45	53.28	.06	7.10	.06	.71	.68	8.05
34	453350	2618670	2000	3.11	6220	1.41	87.70	.17	10.57	.47	2.92	4.41	27.43
35	453350	2618690	4000	3.11	12440	1.42	176.65	.16	19.90	.52	6.47	4.49	55.86
36	453350	2618710	4000	3.13	12520	1.57	196.56	.15	18.78	.64	8.01	4.99	62.47
37	453350	2618730	3000	3.16	9480	1.78	168.74	.14	13.27	.79	7.49	6.34	60.10
38	453350	2618750	3000	3.16	9480	1.78	168.74	.15	14.22	.80	7.58	6.92	65.60
39	453350	2618770	4000	3.14	12560	1.69	212.26	.18	22.61	.72	9.04	6.38	80.13
40	453350	2618790	4000	3.11	12440	1.44	179.14	.21	26.12	.58	7.22	5.01	62.32
41	453350	2618810	4000	3.06	12240	1.15	140.76	.18	22.03	.48	5.88	3.70	45.29
42	453350	2618830	4000	3.02	12080	.84	101.47	.12	14.50	.36	4.35	2.38	28.75
43	453350	2618850	4000	2.99	11960	.67	80.13	.09	10.76	.25	2.99	1.59	19.02
44	453350	2618870	4000	2.98	11920	.56	66.75	.06	7.15	.15	1.79	.94	11.20
45	453350	2618890	4000	2.97	11880	.51	60.59	.06	7.13	.08	.95	.62	7.37
46	453370	2618650	1000	3.12	3120	1.50	46.80	.18	5.62	.49	1.53	4.01	12.51
47	453370	2618670	4000	3.07	12280	1.19	146.13	.15	18.42	.56	6.88	4.02	49.37
48	453370	2618690	4000	3.03	12120	.89	107.87	.15	18.18	.51	6.18	1.94	23.51
49	453370	2618710	3332	3.11	10363	1.43	148.18	.14	14.51	.71	7.36	3.36	34.82
50	453370	2618770	4000	3.10	12400	1.41	174.84	.20	24.80	.52	6.45	5.55	68.82
51	453370	2618790	4000	3.13	12520	1.61	201.57	.28	35.06	.42	5.26	5.17	64.73
52	453370	2618810	4000	3.05	12200	1.09	132.98	.18	21.96	.43	5.25	3.66	44.65
53	453370	2618830	4000	3.02	12080	.84	101.47	.12	14.50	.35	4.23	2.14	25.85
54	453370	2618850	4000	3.00	12000	.70	84.00	.07	8.40	.26	3.12	1.23	14.76
55	453370	2618870	4000	2.99	11960	.62	74.15	.06	7.18	.17	2.03	.80	9.57
56	453370	2618890	4000	2.98	11920	.58	69.14	.05	5.96	.08	.95	.46	5.48
57	453390	2618650	840	3.11	2612	1.43	37.36	.14	3.66	.43	1.12	3.27	8.54
58	453390	2618670	3600	3.06	11016	1.08	118.97	.14	15.42	.81	8.92	6.55	72.15
59	453390	2618690	4000	3.04	12160	.96	116.74	.14	17.02	1.01	12.28	7.94	96.55
60	453390	2618710	2000	3.05	6100	1.02	62.22	.13	7.93	1.01	6.16	7.77	47.40
61	453390	2618810	2000	2.99	5980	.63	37.67	.10	5.98	.39	2.33	2.66	15.91
62	453390	2618830	4000	2.99	11960	.64	76.54	.07	8.37	.35	4.19	1.38	16.50
63	453390	2618850	4000	3.00	12000	.74	88.80	.06	7.20	.27	3.24	.87	10.44
64	453390	2618870	4000	3.00	12000	.70	84.00	.05	6.00	.19	2.28	.71	8.52
65	453390	2618890	4000	2.99	11960	.63	75.35	.04	4.78	.10	1.20	.29	3.47
66	453410	2618650	200	3.08	616	1.23	7.58	.14	.86	.77	.47	6.78	4.18
67	453410	2618670	2000	3.04	6080	.96	58.37	.13	7.90	1.19	7.24	10.94	66.52
68	453410	2618690	2200	3.00	6600	.67	44.22	.13	8.58	1.72	11.35	16.46	108.64
69	453410	2618710	400	3.01	1204	.76	9.15	.12	1.44	1.38	1.66	12.53	15.09
70	453410	2618870	2000	2.99	5980	.68	40.66	.03	1.79	.21	1.26	.31	1.85
71	453410	2618890	4000	2.99	11960	.67	80.13	.04	4.78	.14	1.67	.14	1.67
72	453430	2618890	2000	2.99	5980	.65	38.87	.02	1.20	.18	1.08	.00	.00
			238776		731264		8402.76		761.18		437.95		3285.13

Geological Ore Reserve
Hayl As Safil : 630 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453270	2618730	500	3.03	1515	.91	13.79	.06	.91	1.40	2.12	6.66	10.09
2	453270	2618750	1500	3.05	4575	1.07	48.95	.06	2.74	1.18	5.40	8.89	40.67
3	453270	2618770	2500	3.12	7800	1.49	116.22	.05	3.90	1.22	9.52	14.04	109.51
4	453270	2618790	3500	3.15	11025	1.73	190.73	.04	4.41	1.34	14.77	17.20	189.63

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
5	453290	2618690	1000	3.03	3030	.86	26.06	.04	1.21	2.36	7.15	4.87	14.76
6	453290	2618710	2000	3.02	6040	.82	49.53	.06	3.62	1.81	10.93	4.71	28.45
7	453290	2618730	4000	3.02	12080	.80	96.64	.08	9.66	1.09	13.17	4.81	58.10
8	453290	2618750	4000	3.04	12160	.97	117.95	.08	9.73	.88	10.70	6.98	84.88
9	453290	2618770	4000	3.10	12400	1.38	171.12	.06	7.44	1.08	13.39	11.87	147.19
10	453290	2618790	4000	3.16	12640	1.79	226.26	.04	5.06	1.38	17.44	17.77	224.61
11	453290	2618810	2000	3.16	6320	1.77	111.86	.04	2.53	1.33	8.41	17.19	108.64
12	453310	2618670	1000	3.06	3060	1.08	33.05	.08	2.45	2.33	7.13	5.85	17.90
13	453310	2618690	4000	3.03	12120	.86	104.23	.04	4.85	2.51	30.42	4.75	57.57
14	453310	2618710	4000	3.04	12160	.94	114.30	.10	12.16	1.89	22.98	4.90	59.58
15	453310	2618730	4000	3.02	12080	.85	102.68	.11	13.29	1.12	13.53	4.21	50.86
16	453310	2618750	4000	3.00	12000	.70	84.00	.09	10.80	.70	8.40	3.46	41.52
17	453310	2618770	4000	3.10	12400	1.40	173.60	.07	8.68	.92	11.41	9.17	113.71
18	453310	2618790	4000	3.17	12680	1.86	235.85	.05	6.34	1.11	14.07	13.71	173.84
19	453310	2618810	4000	3.18	12720	1.93	245.50	.04	5.09	1.14	14.50	14.94	190.04
20	453310	2618830	3000	3.20	9600	2.03	194.88	.04	3.84	1.06	10.18	14.22	136.51
21	453310	2618850	1000	3.19	3190	1.99	63.48	.04	1.28	.98	3.13	13.65	43.54
22	453330	2618670	3000	3.08	9240	1.27	117.35	.14	12.94	1.89	17.46	5.90	54.52
23	453330	2618690	4000	3.08	12320	1.26	155.23	.13	16.02	2.43	29.94	7.68	94.62
24	453330	2618710	4000	3.07	12280	1.14	139.99	.19	23.33	1.78	21.86	4.82	59.19
25	453330	2618730	4000	3.06	12240	1.11	135.86	.18	22.03	1.25	15.30	3.83	46.88
26	453330	2618750	4000	3.08	12320	1.27	156.46	.13	16.02	.88	10.84	4.63	57.04
27	453330	2618770	4000	3.16	12640	1.78	224.99	.09	11.38	.76	9.61	6.69	84.56
28	453330	2618790	4000	3.23	12920	2.24	289.41	.07	9.04	.75	9.69	9.04	116.80
29	453330	2618810	4000	3.24	12960	2.33	301.97	.05	6.48	.76	9.85	10.08	130.64
30	453330	2618830	4000	3.21	12840	2.13	273.49	.04	5.14	.75	9.63	10.34	132.77
31	453330	2618850	4000	3.20	12800	2.01	257.28	.04	5.12	.74	9.47	10.60	135.68
32	453330	2618870	4000	3.17	12680	1.87	237.12	.03	3.80	.70	8.88	10.54	133.65
33	453330	2618890	4000	3.16	12640	1.75	221.20	.03	3.79	.65	8.22	10.36	130.95
34	453350	2618650	1000	3.15	3150	1.71	53.86	.23	7.24	.85	2.68	4.84	15.25
35	453350	2618670	4000	3.10	12400	1.40	173.60	.20	24.80	1.17	14.51	4.78	59.27
36	453350	2618690	4000	3.08	12320	1.27	156.46	.22	27.10	1.33	16.39	4.35	53.59
37	453350	2618710	4000	3.11	12440	1.44	179.14	.36	44.78	1.34	16.67	3.55	44.16
38	453350	2618730	4000	3.09	12360	1.31	161.92	.22	27.19	1.34	16.56	3.90	48.20
39	453350	2618750	4000	3.15	12600	1.72	216.72	.14	17.64	1.01	12.73	4.23	53.30
40	453350	2618770	4000	3.25	13000	2.37	308.10	.10	13.00	.67	8.71	5.11	66.43
41	453350	2618790	4000	3.32	13280	2.89	383.79	.07	9.30	.44	5.84	5.32	70.65
42	453350	2618810	4000	3.29	13160	2.68	352.69	.06	7.90	.40	5.26	5.78	76.06
43	453350	2618830	4000	3.21	12840	2.09	268.36	.04	5.14	.47	6.03	6.88	88.34
44	453350	2618850	4000	3.17	12680	1.85	234.58	.03	3.80	.51	6.47	7.46	94.59
45	453350	2618870	4000	3.13	12520	1.58	197.82	.03	3.76	.50	6.26	7.47	93.52
46	453350	2618890	4000	3.12	12480	1.47	183.46	.03	3.74	.49	6.12	7.66	95.60
47	453370	2618650	3000	3.18	9540	2.00	190.80	.33	31.48	.63	6.01	4.90	46.75
48	453370	2618670	4000	3.14	12560	1.67	209.75	.31	38.94	.68	8.54	4.41	55.39
49	453370	2618690	4000	3.05	12200	1.05	128.10	.19	23.18	.25	3.05	1.49	18.18
50	453370	2618710	4000	3.07	12280	1.13	138.76	.22	27.02	1.21	14.86	3.41	41.87
51	453370	2618730	4000	3.08	12320	1.25	154.00	.18	22.18	1.50	18.48	3.72	45.83
52	453370	2618750	4000	3.14	12560	1.63	204.73	.12	15.07	1.29	16.20	3.87	48.61
53	453370	2618770	4000	3.26	13040	2.41	314.26	.09	11.74	.69	9.00	3.83	49.94
54	453370	2618790	4000	3.40	13600	3.40	462.40	.07	9.52	.26	3.54	3.84	52.22
55	453370	2618810	4000	3.26	13040	2.42	315.57	.05	6.52	.21	2.74	3.27	42.64
56	453370	2618830	4000	3.16	12640	1.78	224.99	.04	5.06	.22	2.78	3.56	45.00
57	453370	2618850	4000	3.11	12440	1.39	172.92	.03	3.73	.27	3.36	3.92	48.76
58	453370	2618870	4000	3.09	12360	1.26	155.74	.02	2.47	.31	3.83	4.64	57.35
59	453370	2618890	4000	3.08	12320	1.21	149.07	.02	2.46	.32	3.94	4.97	61.23
60	453390	2618630	332	3.23	1072	2.31	24.77	.41	4.40	.62	.66	5.51	5.91
61	453390	2618650	4000	3.29	13160	2.79	367.16	.56	73.70	.69	9.08	6.18	81.33
62	453390	2618670	4000	3.16	12640	1.85	233.84	.40	50.56	.77	9.73	6.32	79.88
63	453390	2618690	4000	3.08	12320	1.29	158.93	.30	36.96	1.02	12.57	6.18	76.14
64	453390	2618710	2000	3.05	6100	1.01	61.61	.19	11.59	1.44	8.78	5.23	31.90
65	453390	2618750	1000	3.09	3090	1.27	39.24	.08	2.47	1.54	4.76	3.67	11.34

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
66	453390	2618770	4000	3.15	12600	1.72	216.72	.07	8.82	.89	11.21	3.39	42.71
67	453390	2618790	4000	3.16	12640	1.80	227.52	.05	6.32	.34	4.30	2.79	35.27
68	453390	2618810	4000	3.10	12400	1.36	168.64	.03	3.72	.12	1.49	1.84	22.82
69	453390	2618830	4000	3.04	12160	.91	110.66	.02	2.43	.06	.73	1.09	13.25
70	453390	2618850	4000	3.03	12120	.87	105.44	.02	2.42	.08	.97	1.17	14.18
71	453390	2618870	4000	3.05	12200	.97	118.34	.02	2.44	.15	1.83	2.16	26.35
72	453390	2618890	4000	3.05	12200	.99	120.78	.02	2.44	.17	2.07	2.82	34.40
73	453410	2618630	600	3.26	1956	2.57	50.27	.51	9.98	.74	1.45	6.51	12.73
74	453410	2618650	4000	3.23	12920	2.33	301.04	.50	64.60	.90	11.63	7.51	97.03
75	453410	2618670	4000	3.15	12600	1.78	224.28	.44	55.44	1.19	14.99	9.14	115.16
76	453410	2618690	4000	3.07	12280	1.18	144.90	.38	46.66	1.57	19.28	11.44	140.48
77	453410	2618750	1200	3.02	3624	.80	28.99	.06	2.17	1.63	5.91	3.82	13.84
78	453410	2618770	1000	3.03	3030	.86	26.06	.04	1.21	.99	3.00	2.87	8.70
79	453410	2618830	4000	2.96	11840	.38	44.99	.01	1.18	.01	.12	.10	1.18
80	453410	2618850	4000	2.99	11960	.59	70.56	.01	1.20	.03	.36	.34	4.07
81	453410	2618870	4000	3.00	12000	.68	81.60	.02	2.40	.05	.60	.77	9.24
82	453410	2618890	4000	3.01	12040	.74	89.10	.01	1.20	.07	.84	1.34	16.13
83	453430	2618630	828	3.22	2666	2.31	61.59	.50	13.33	.95	2.53	7.90	21.06
84	453430	2618650	3200	3.18	10176	2.00	203.52	.47	47.83	1.15	11.70	9.04	91.99
85	453430	2618670	2400	3.11	7464	1.50	111.96	.42	31.35	1.44	10.75	10.53	78.60
86	453430	2618690	1000	3.07	3070	1.18	36.23	.35	10.74	1.65	5.07	10.53	32.33
87	453430	2618870	2000	2.97	5940	.48	28.51	.01	.59	.00	.00	.04	.24
88	453430	2618890	4000	2.98	11920	.51	60.79	.01	1.19	.00	.00	.28	3.34
89	453450	2618890	2000	2.96	5920	.36	21.31	.00	.00	.00	.00	.00	.00
			298560		931714		14261.97		1149.19		786.46		5673.25

Geological Ore Reserve
Hayl As Safil : 620 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453290	2618750	668	2.98	1991	.52	10.35	.26	5.18	.40	.80	3.08	6.13
2	453290	2618770	2000	2.98	5960	.54	32.18	.25	14.90	.56	3.34	3.86	23.01
3	453290	2618790	3332	2.97	9896	.47	46.51	.29	28.70	.79	7.82	5.11	50.57
4	453310	2618730	2000	2.99	5980	.61	36.48	.45	26.91	.53	3.17	5.00	29.90
5	453310	2618750	3720	2.98	11086	.51	56.54	.22	24.39	.24	2.66	2.11	23.39
6	453310	2618770	4000	3.01	12040	.75	90.30	.24	28.90	.46	5.54	3.50	42.14
7	453310	2618790	4000	3.03	12120	.86	104.23	.24	29.09	.63	7.64	4.45	53.93
8	453310	2618810	3332	3.02	10063	.84	84.53	.24	24.15	.67	6.74	4.58	46.09
9	453310	2618830	2000	3.05	6100	1.00	61.00	.22	13.42	.63	3.84	4.42	26.96
10	453310	2618850	668	3.05	2037	.99	20.17	.20	4.07	.58	1.18	4.04	8.23
11	453330	2618690	1000	3.01	3010	.83	24.98	.53	15.95	.72	2.17	6.92	20.83
12	453330	2618710	3000	3.03	9090	.85	77.26	.92	83.63	.90	8.18	9.78	88.90
13	453330	2618730	4000	3.02	12080	.75	90.60	.58	70.06	.65	7.85	6.53	78.88
14	453330	2618750	4000	3.03	12120	.88	106.66	.35	42.42	.46	5.58	4.22	51.15
15	453330	2618770	4000	3.09	12360	1.26	155.74	.22	27.19	.42	5.19	3.63	44.87
16	453330	2618790	4000	3.13	12520	1.57	196.56	.17	21.28	.45	5.63	3.83	47.95
17	453330	2618810	4000	3.14	12560	1.61	202.22	.15	18.84	.47	5.90	3.89	48.86
18	453330	2618830	4000	3.10	12400	1.39	172.36	.15	18.60	.46	5.70	3.59	44.52
19	453330	2618850	4000	3.08	12320	1.25	154.00	.15	18.48	.45	5.54	3.40	41.89
20	453330	2618870	4000	3.06	12240	1.09	133.42	.15	18.36	.41	5.02	2.93	35.86
21	453330	2618890	4000	3.04	12160	.96	116.74	.14	17.02	.37	4.50	2.44	29.67
22	453350	2618670	1000	3.20	3200	3.37	107.84	.44	14.08	.57	1.82	5.06	16.19
23	453350	2618690	4000	3.05	12200	1.27	154.94	.52	63.44	.58	7.08	5.84	71.25
24	453350	2618710	4000	3.05	12200	.98	119.56	.86	104.92	.79	9.64	9.54	116.39
25	453350	2618730	4000	3.03	12120	.84	101.81	.60	72.72	.76	9.21	7.08	85.81

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
26	453350	2618750	4000	3.07	12280	1.15	141.22	.33	40.52	.59	7.25	4.86	59.68
27	453350	2618770	4000	3.18	12720	1.91	242.95	.18	22.90	.42	5.34	4.05	51.52
28	453350	2618790	4000	3.27	13080	2.54	332.23	.09	11.77	.31	4.05	3.64	47.61
29	453350	2618810	4000	3.24	12960	2.32	300.67	.07	9.07	.29	3.76	3.27	42.38
30	453350	2618830	4000	3.14	12560	1.62	203.47	.09	11.30	.31	3.89	2.87	36.05
31	453350	2618850	4000	3.09	12360	1.32	163.15	.10	12.36	.32	3.96	2.59	32.01
32	453350	2618870	4000	3.05	12200	1.02	124.44	.11	13.42	.30	3.66	2.17	26.47
33	453350	2618890	4000	3.03	12120	.87	105.44	.11	13.33	.26	3.15	1.73	20.97
34	453370	2618670	3000	3.42	10260	6.18	634.07	.50	51.30	.65	6.67	5.48	56.22
35	453370	2618690	4000	2.97	11880	.50	59.40	.15	17.82	.18	2.14	1.26	14.97
36	453370	2618710	4000	3.01	12040	.78	93.91	.46	55.38	.71	8.55	6.00	72.24
37	453370	2618730	4000	3.00	12000	.67	80.40	.40	48.00	.86	10.32	5.66	67.92
38	453370	2618750	4000	3.08	12320	1.21	149.07	.35	43.12	.75	9.24	5.86	72.20
39	453370	2618770	4000	3.21	12840	2.11	270.92	.16	20.54	.46	5.91	4.39	56.37
40	453370	2618790	4000	3.37	13480	3.20	431.36	.03	4.04	.24	3.24	3.65	49.20
41	453370	2618810	4000	3.23	12920	2.28	294.58	.03	3.88	.19	2.45	2.68	34.63
42	453370	2618830	4000	3.13	12520	1.56	195.31	.05	6.26	.17	2.13	1.93	24.16
43	453370	2618850	4000	3.06	12240	1.11	135.86	.07	8.57	.18	2.20	1.60	19.58
44	453370	2618870	4000	3.03	12120	.90	109.08	.08	9.70	.18	2.18	1.35	16.36
45	453370	2618890	4000	3.02	12080	.80	96.64	.08	9.66	.17	2.05	1.13	13.65
46	453390	2618650	520	4.12	2142	12.23	262.02	.91	19.50	1.18	2.53	9.58	20.52
47	453390	2618670	4000	3.57	14280	7.63	1089.56	.50	71.40	.81	11.57	6.65	94.96
48	453390	2618690	4000	3.22	12880	2.99	385.11	.31	39.93	.69	8.89	5.58	71.87
49	453390	2618710	4000	3.06	12240	1.01	123.62	.31	37.94	.82	10.04	6.09	74.54
50	453390	2618730	4000	3.01	12040	.75	90.30	.47	56.59	1.19	14.33	8.36	100.65
51	453390	2618750	4000	3.06	12240	1.11	135.86	.33	40.39	.90	11.02	6.76	82.74
52	453390	2618770	4000	3.14	12560	1.60	200.96	.18	22.61	.62	7.79	5.46	68.58
53	453390	2618790	4000	3.16	12640	1.79	226.26	.06	7.58	.31	3.92	3.48	43.99
54	453390	2618810	4000	3.10	12400	1.38	171.12	.02	2.48	.15	1.86	1.95	24.18
55	453390	2618830	4000	3.03	12120	.89	107.87	.03	3.64	.08	.97	.90	10.91
56	453390	2618850	4000	3.01	12040	.77	92.71	.04	4.82	.08	.96	.65	7.83
57	453390	2618870	4000	3.01	12040	.77	92.71	.06	7.22	.10	1.20	.71	8.55
58	453390	2618890	4000	3.01	12040	.73	87.89	.06	7.22	.10	1.20	.58	6.98
59	453410	2618650	1400	3.90	5460	9.81	535.63	.61	33.31	1.00	5.46	7.88	43.02
60	453410	2618670	4000	3.62	14480	7.21	1044.01	.44	63.71	.93	13.47	7.58	109.76
61	453410	2618690	4000	3.27	13080	2.52	329.62	.24	31.39	.89	11.64	7.73	101.11
62	453410	2618710	3000	3.14	9420	1.63	153.55	.30	28.26	.95	8.95	7.49	70.56
63	453410	2618730	1000	3.07	3070	1.11	34.08	.34	10.44	1.03	3.16	7.87	24.16
64	453410	2618750	2000	3.04	6080	.94	57.15	.30	18.24	.99	6.02	7.77	47.24
65	453410	2618770	3500	3.05	10675	.99	105.68	.17	18.15	.73	7.79	6.21	66.29
66	453410	2618790	2500	3.00	7500	.70	52.50	.06	4.50	.48	3.60	4.42	33.15
67	453410	2618810	3000	2.93	8790	.22	19.34	.02	1.76	.16	1.41	1.45	12.75
68	453410	2618830	4000	2.95	11800	.34	40.12	.04	4.72	.04	.47	.08	.94
69	453410	2618850	4000	2.98	11920	.53	63.18	.04	4.77	.04	.48	.24	2.86
70	453410	2618870	4000	2.98	11920	.58	69.14	.04	4.77	.04	.48	.20	2.38
71	453410	2618890	4000	2.98	11920	.57	67.94	.05	5.96	.04	.48	.15	1.79
72	453430	2618650	3200	3.03	12256	7.33	898.36	.36	44.12	.84	10.30	6.14	75.25
73	453430	2618670	4000	3.63	14520	6.02	874.10	.30	43.56	.86	12.49	6.66	96.70
74	453430	2618690	2000	3.38	6760	3.53	238.63	.25	16.90	.89	6.02	7.25	49.01
75	453430	2618830	1000	2.94	2940	.30	8.82	.04	1.18	.10	.29	.66	1.94
76	453430	2618850	2000	2.96	5920	.38	22.50	.04	2.37	.05	.30	.18	1.07
77	453430	2618870	3332	2.96	9863	.42	41.42	.04	3.95	.03	.30	.02	.20
78	453430	2618890	4000	2.96	11840	.41	48.54	.04	4.74	.02	.24	.00	.00
79	453450	2618650	3760	3.86	14514	6.74	978.22	.17	24.67	.69	10.01	4.40	63.86
80	453450	2618670	2000	3.70	7400	5.72	423.28	.20	14.80	.76	5.62	5.44	40.26
81	453450	2618870	168	2.95	496	.34	1.69	.04	.20	.08	.04	.51	.25
82	453450	2618890	2500	2.95	7375	.31	22.86	.03	2.21	.03	.22	.07	.52
83	453470	2618650	1000	3.82	3820	6.33	241.81	.17	6.49	.70	2.67	4.56	17.42
			275600		862313		16059.30		1936.14		412.04		3426.34

Geological Ore Reserve
Hayl As Safil : 610 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453290	2618790	820	2.96	2427	.42	10.19	.49	11.89	.35	.85	2.43	5.90
2	453310	2618750	600	2.98	1788	.57	10.19	.86	15.38	.75	1.34	4.50	8.05
3	453310	2618770	2600	2.99	7774	.60	46.64	.54	41.98	.44	3.42	3.17	24.64
4	453310	2618790	3200	2.98	9536	.58	55.31	.44	41.96	.34	3.24	2.67	25.46
5	453310	2618810	3000	2.98	8940	.55	49.17	.42	37.55	.31	2.77	2.50	22.35
6	453310	2618830	1000	2.99	2990	.59	17.64	.39	11.66	.29	.87	2.47	7.39
7	453330	2618710	744	2.98	2217	.53	11.75	1.62	35.92	1.36	3.02	7.89	17.49
8	453330	2618730	3000	2.98	8940	.56	50.06	1.14	101.92	1.09	9.74	5.60	50.06
9	453330	2618750	4000	3.00	12000	.67	80.40	.75	90.00	.76	9.12	4.18	50.16
10	453330	2618770	4000	3.01	12040	.77	92.71	.50	60.20	.51	6.14	3.43	41.30
11	453330	2618790	4000	3.02	12080	.82	99.06	.40	48.32	.37	4.47	3.17	38.29
12	453330	2618810	4000	3.02	12080	.82	99.06	.33	39.86	.29	3.50	2.87	34.67
13	453330	2618830	4000	3.00	12000	.72	86.40	.30	36.00	.23	2.76	2.40	28.80
14	453330	2618850	3668	3.00	11004	.65	71.53	.28	30.81	.20	2.20	2.09	23.00
15	453330	2618870	3000	2.98	8940	.57	50.96	.26	23.24	.14	1.25	1.56	13.95
16	453330	2618890	2332	2.97	6926	.50	34.63	.23	15.93	.07	.48	1.01	7.00
17	453350	2618690	1000	2.99	2990	.61	18.24	.71	21.23	.77	2.30	3.81	11.39
18	453350	2618710	4000	2.98	11920	.56	66.75	.80	95.36	.94	11.20	3.91	46.61
19	453350	2618730	4000	2.99	11960	.58	69.37	.70	83.72	.93	11.12	3.37	40.31
20	453350	2618750	4000	3.00	12000	.72	86.40	.50	60.00	.72	8.64	2.96	35.52
21	453350	2618770	4000	3.04	12160	.96	116.74	.38	46.21	.48	5.84	3.36	40.86
22	453350	2618790	4000	3.06	12240	1.13	138.31	.25	30.60	.32	3.92	3.49	42.72
23	453350	2618810	4000	3.05	12200	1.04	126.88	.22	26.84	.25	3.05	3.06	37.33
24	453350	2618830	4000	3.02	12080	.80	96.64	.22	26.58	.20	2.42	2.30	27.78
25	453350	2618850	4000	3.00	12000	.68	81.60	.21	25.20	.15	1.80	1.82	21.84
26	453350	2618870	4000	2.98	11920	.56	66.75	.20	23.84	.11	1.31	1.25	14.90
27	453350	2618890	4000	2.97	11880	.47	55.84	.19	22.57	.05	.59	.72	8.55
28	453370	2618690	3000	3.00	9000	.68	61.20	.13	11.70	.35	3.15	1.26	11.34
29	453370	2618710	4000	3.00	12000	.67	80.40	.30	36.00	.63	7.56	1.77	21.24
30	453370	2618730	4000	2.98	11920	.56	66.75	.14	16.69	.77	9.18	.30	3.58
31	453370	2618750	4000	3.01	12040	.75	90.30	.27	32.51	.69	8.31	2.01	24.20
32	453370	2618770	4000	3.05	12200	1.02	124.44	.24	29.28	.49	5.98	3.00	36.60
33	453370	2618790	4000	3.09	12360	1.31	161.92	.19	23.48	.30	3.71	3.80	46.97
34	453370	2618810	4000	3.05	12200	1.06	129.32	.15	18.30	.21	2.56	2.76	33.67
35	453370	2618830	4000	3.02	12080	.79	95.43	.13	15.70	.13	1.57	1.80	21.74
36	453370	2618850	4000	2.99	11960	.62	74.15	.13	15.55	.10	1.20	1.28	15.31
37	453370	2618870	4000	2.98	11920	.52	61.98	.14	16.69	.06	.72	.85	10.13
38	453370	2618890	4000	2.97	11880	.46	54.65	.14	16.63	.03	.36	.51	6.06
39	453390	2618670	1000	3.04	3040	.94	28.58	.07	2.13	.28	.85	1.93	5.87
40	453390	2618690	4000	3.05	12200	1.05	128.10	.11	13.42	.35	4.27	1.78	21.72
41	453390	2618710	4000	3.04	12160	.92	111.87	.11	13.38	.52	6.32	1.54	18.73
42	453390	2618730	4000	3.01	12040	.74	89.10	.13	15.65	.74	8.91	1.79	21.55
43	453390	2618750	4000	3.01	12040	.78	93.91	.13	15.65	.78	9.39	2.53	30.46
44	453390	2618770	4000	3.03	12120	.92	111.50	.14	16.97	.64	7.76	2.87	34.78
45	453390	2618790	4000	3.04	12160	1.00	121.60	.12	14.59	.35	4.26	2.63	31.98
46	453390	2618810	4000	3.02	12080	.85	102.68	.08	9.66	.17	2.05	1.73	20.90
47	453390	2618830	4000	2.99	11960	.62	74.15	.06	7.18	.07	.84	.95	11.36
48	453390	2618850	4000	2.98	11920	.51	60.79	.06	7.15	.05	.60	.64	7.63
49	453390	2618870	4000	2.97	11880	.48	57.02	.08	9.50	.04	.48	.53	6.30
50	453390	2618890	4000	2.97	11880	.44	52.27	.09	10.69	.00	.00	.26	3.09
51	453410	2618670	3000	3.10	9300	1.33	123.69	.12	11.16	.36	3.35	2.87	26.69
52	453410	2618690	4000	3.15	12600	1.69	212.94	.14	17.64	.25	3.15	2.44	30.74
53	453410	2618710	4000	3.06	12240	1.06	129.74	.12	14.69	.67	8.20	2.55	31.21
54	453410	2618730	4000	3.01	12040	.76	91.50	.09	10.84	.95	11.44	3.12	37.56
55	453410	2618750	4000	3.01	12040	.74	89.10	.09	10.84	1.02	12.28	4.02	48.40
56	453410	2618770	4000	3.03	12120	.90	109.08	.09	10.91	.78	9.45	4.24	51.39
57	453410	2618790	4000	3.02	12080	.82	99.06	.06	7.25	.54	6.52	2.55	30.80
58	453410	2618810	4000	2.99	11960	.64	76.54	.03	3.59	.16	1.91	.75	8.97

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
59	453410	2618830	4000	2.96	11840	.37	43.81	.02	2.37	.01	.12	.08	.95
60	453410	2618850	4000	2.97	11880	.42	49.90	.03	3.56	.02	.24	.25	2.97
61	453410	2618870	4000	2.97	11880	.42	49.90	.04	4.75	.00	.00	.18	2.14
62	453410	2618890	4000	2.96	11840	.39	46.18	.05	5.92	.00	.00	.01	.12
63	453430	2618670	4000	3.20	12800	2.01	257.28	.23	29.44	.53	6.78	3.86	49.41
64	453430	2618690	4000	3.13	12520	1.53	191.56	.21	26.29	.68	8.51	3.60	45.07
65	453430	2618710	4000	3.06	12240	1.05	128.52	.13	15.91	.94	11.51	3.65	44.68
66	453430	2618730	2200	2.97	6534	.45	29.40	.06	3.92	1.35	8.82	3.89	25.42
67	453430	2618750	2400	3.03	7272	.85	61.81	.08	5.82	1.18	8.58	6.06	44.07
68	453430	2618770	3000	3.06	9180	1.06	97.31	.09	8.26	1.03	9.46	6.95	63.80
69	453430	2618790	1000	3.05	3050	1.00	30.50	.07	2.13	.73	2.23	5.34	16.29
70	453430	2618810	1000	3.00	3000	.67	20.10	.04	1.20	.29	.87	2.15	6.45
71	453430	2618830	3000	2.97	8910	.47	41.88	.02	1.78	.09	.80	.72	6.42
72	453430	2618850	4000	2.96	11840	.39	46.18	.02	2.37	.02	.24	.26	3.08
73	453430	2618870	4000	2.96	11840	.38	44.99	.02	2.37	.00	.00	.06	.71
74	453430	2618890	4000	2.96	11840	.36	42.62	.03	3.55	.00	.00	.00	.00
75	453450	2618670	948	3.22	3053	2.18	66.55	.45	13.74	.89	2.72	5.26	16.06
76	453450	2618690	2000	3.15	6300	1.68	105.84	.30	18.90	.95	5.99	4.91	30.93
77	453450	2618850	1000	2.98	2980	.50	14.90	.02	.60	.13	.39	1.31	3.90
78	453450	2618870	3000	2.97	8910	.44	39.20	.02	1.78	.06	.53	.73	6.50
79	453450	2618890	4000	2.96	11840	.38	44.99	.02	2.37	.00	.00	.18	2.13
80	453470	2618650	1000	3.39	3390	3.33	112.89	.36	12.20	1.39	4.71	11.33	38.41
81	453470	2618670	2000	3.29	6580	2.69	177.00	.38	25.00	1.33	8.75	9.63	63.37
82	453470	2618690	600	3.19	1914	1.95	37.32	.35	6.70	1.24	2.37	7.47	14.30
83	453490	2618650	1192	3.39	4041	3.36	135.77	.39	15.76	2.27	9.17	19.00	76.78
84	453490	2618670	600	3.32	1992	2.87	57.17	.38	7.57	1.85	3.69	14.42	28.72
			272904		823918		6726.55		1784.45		350.16		2029.95

Geological Ore Reserve
Hayl As Safil : 600 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453310	2618750	332	3.09	1026	1.28	13.13	.54	5.54	.42	.43	2.69	2.67
2	453310	2618770	2668	3.08	8217	1.21	99.43	.42	34.51	.33	2.71	2.23	18.32
3	453310	2618790	2000	3.07	6140	1.15	70.61	.31	19.03	.23	1.41	1.91	11.73
4	453330	2618730	1332	3.09	4116	1.31	53.92	.68	27.99	.54	2.22	3.00	12.35
5	453330	2618750	3668	3.08	11297	1.27	143.48	.56	63.27	.44	4.97	2.67	30.16
6	453330	2618770	4000	3.07	12280	1.19	146.13	.38	46.66	.29	3.56	2.18	26.77
7	453330	2618790	4000	3.06	12240	1.10	134.64	.21	25.70	.16	1.96	1.69	20.69
8	453330	2618810	2000	3.05	6100	1.01	61.61	.12	7.32	.09	.55	1.37	8.36
9	453350	2618710	2000	3.09	6180	1.30	80.34	.60	37.08	.51	3.15	2.83	17.49
10	453350	2618730	4000	3.09	12360	1.31	161.92	.72	88.99	.58	7.17	3.10	38.32
11	453350	2618750	4000	3.07	12280	1.19	146.13	.53	65.08	.43	5.28	2.60	31.93
12	453350	2618770	4000	3.07	12280	1.15	141.22	.24	29.47	.19	2.33	1.89	23.21
13	453350	2618790	4000	3.05	12200	1.07	130.54	.10	12.20	.08	.98	1.50	18.30
14	453350	2618810	4000	3.03	12120	.92	111.50	.05	6.06	.05	.61	1.17	14.18
15	453350	2618830	4000	3.02	12080	.83	100.26	.05	6.04	.02	.24	.91	10.99
16	453350	2618850	4000	3.01	12040	.78	93.91	.04	4.82	.00	.00	.75	9.03
17	453350	2618870	4000	3.00	12000	.70	84.00	.03	3.60	.00	.00	.47	5.64
18	453350	2618890	4000	2.99	11960	.66	78.94	.02	2.39	.00	.00	.16	1.91
19	453370	2618690	2000	3.11	6220	1.43	88.95	.41	25.50	.34	2.11	2.39	14.87
20	453370	2618710	4000	3.07	12280	1.15	141.22	.49	60.17	.52	6.39	2.70	33.16
21	453370	2618730	4000	3.04	12160	.94	114.30	.57	69.31	.61	7.42	2.81	34.17
22	453370	2618750	4000	3.05	12200	1.03	125.66	.44	53.68	.42	5.12	2.60	31.72
23	453370	2618770	4000	3.05	12200	1.03	125.66	.23	28.06	.16	1.95	1.99	24.28
24	453370	2618790	4000	3.06	12240	1.10	134.64	.06	7.34	.05	.61	1.45	17.75
25	453370	2618810	4000	3.01	12040	.78	93.91	.04	4.82	.05	.60	1.04	12.52

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
26	453370	2618830	4000	2.99	11960	.63	75.35	.04	4.78	.02	.24	.68	8.13
27	453370	2618850	4000	2.99	11960	.64	76.54	.05	5.98	.00	.00	.56	6.70
28	453370	2618870	4000	2.99	11960	.60	71.76	.03	3.59	.00	.00	.31	3.71
29	453370	2618890	4000	2.98	11920	.58	69.14	.02	2.38	.00	.00	.06	.72
30	453390	2618690	4000	3.03	12120	.91	110.29	.23	27.88	.45	5.45	1.90	23.03
31	453390	2618710	4000	3.03	12120	.87	105.44	.32	38.78	.61	7.39	2.54	30.78
32	453390	2618730	4000	3.02	12080	.82	99.06	.38	45.90	.67	8.09	3.25	39.26
33	453390	2618750	4000	3.02	12080	.81	97.85	.32	38.66	.53	6.40	3.25	39.26
34	453390	2618770	4000	3.02	12080	.84	101.47	.19	22.95	.26	3.14	2.49	30.08
35	453390	2618790	4000	3.01	12040	.74	89.10	.08	9.63	.11	1.32	1.47	17.70
36	453390	2618810	800	2.97	2376	.50	11.88	.04	.95	.06	.14	.74	1.76
37	453390	2618830	4000	2.97	11880	.50	59.40	.04	4.75	.03	.36	.38	4.51
38	453390	2618850	4000	2.97	11880	.51	60.59	.04	4.75	.00	.00	.31	3.68
39	453390	2618870	4000	2.97	11880	.51	60.59	.03	3.56	.00	.00	.17	2.02
40	453390	2618890	4000	2.97	11880	.50	59.40	.02	2.38	.00	.00	.00	.00
41	453410	2618670	252	3.01	759	.75	5.69	.09	.68	.35	.27	1.99	1.51
42	453410	2618690	140	2.97	416	.48	2.00	.05	.21	.57	.24	.90	.37
43	453410	2618710	4000	2.99	11960	.63	75.35	.19	22.72	.80	9.57	3.22	38.51
44	453410	2618730	4000	2.99	11960	.62	74.15	.24	28.70	.91	10.88	4.49	53.70
45	453410	2618750	4000	2.99	11960	.62	74.15	.23	27.51	.80	9.57	4.54	54.30
46	453410	2618770	4000	2.99	11960	.61	72.96	.15	17.94	.56	6.70	3.17	37.91
47	453410	2618790	4000	2.98	11920	.53	63.18	.07	8.34	.32	3.81	1.80	21.46
48	453410	2618810	4000	2.97	11880	.47	55.84	.03	3.56	.20	2.38	.36	4.28
49	453410	2618830	4000	2.96	11840	.42	49.73	.02	2.37	.15	1.78	.07	.83
50	453410	2618850	4000	2.96	11840	.44	52.10	.02	2.37	.10	1.18	.13	1.54
51	453410	2618870	4000	2.96	11840	.45	53.28	.03	3.55	.07	.83	.02	.24
52	453410	2618890	4000	2.96	11840	.42	49.73	.01	1.18	.04	.47	.00	.00
53	453430	2618670	400	3.03	1212	.91	11.03	.13	1.58	.37	.45	3.26	3.95
54	453430	2618690	4000	3.00	12000	.69	82.80	.12	14.40	.69	8.28	3.64	43.68
55	453430	2618710	4000	2.97	11880	.50	59.40	.13	15.44	1.02	12.12	4.77	56.67
56	453430	2618730	4000	2.97	11880	.46	54.65	.17	20.20	1.23	14.61	6.60	78.41
57	453430	2618750	4000	2.97	11880	.49	58.21	.18	21.38	1.00	11.88	5.46	64.86
58	453430	2618770	4000	2.97	11880	.50	59.40	.14	16.63	.73	8.67	3.73	44.31
59	453430	2618790	4000	2.97	11880	.46	54.65	.07	8.32	.60	7.13	2.04	24.24
60	453430	2618810	4000	2.96	11840	.43	50.91	.03	3.55	.42	4.97	.49	5.80
61	453430	2618830	4000	2.96	11840	.42	49.73	.02	2.37	.32	3.79	.04	.47
62	453430	2618850	4000	2.96	11840	.42	49.73	.02	2.37	.26	3.08	.02	.24
63	453430	2618870	4000	2.96	11840	.40	47.36	.01	1.18	.22	2.60	.00	.00
64	453430	2618890	4000	2.96	11840	.40	47.36	.01	1.18	.18	2.13	.00	.00
65	453450	2618670	612	3.09	1891	1.32	24.96	.21	3.97	.22	.42	4.54	8.59
66	453450	2618690	4000	3.00	12000	.68	81.60	.15	18.00	.97	11.64	5.94	71.28
67	453450	2618710	2800	2.96	8288	.42	34.81	.14	11.60	1.30	10.77	6.89	57.10
68	453450	2618730	1600	2.96	4736	.43	20.36	.15	7.10	1.25	5.92	6.60	31.26
69	453450	2618750	668	2.97	1984	.44	8.73	.15	2.98	1.12	2.22	5.93	11.76
70	453450	2618870	1000	2.96	2960	.40	11.84	.01	.30	.42	1.24	.00	.00
71	453450	2618890	3000	2.95	8850	.38	33.63	.01	.88	.40	3.54	.00	.00
72	453470	2618670	800	3.02	2416	.86	20.78	.17	4.11	1.19	2.88	6.58	15.90
73	453470	2618690	340	2.94	1000	.28	2.80	.12	1.20	1.66	1.66	8.69	8.69
74	453490	2618670	1200	3.03	3636	.87	31.63	.18	6.54	2.02	7.34	7.75	28.18
75	453490	2618690	800	3.03	2424	.86	20.85	.18	4.36	2.39	5.79	9.60	23.27
76	453510	2618670	3500	3.04	10640	.93	98.95	.19	20.22	2.37	25.22	7.66	81.50
77	453510	2618690	1080	3.11	3359	1.43	48.03	.24	8.06	3.49	11.72	12.02	40.37
78	453530	2618670	2500	3.03	7575	.88	66.66	.19	14.39	2.25	17.04	7.07	53.56
79	453530	2618690	1016	3.03	3078	.88	27.09	.16	4.93	2.58	7.94	11.00	33.86
80	453630	2618690	1480	3.53	5224	4.33	226.22	1.01	52.77	3.25	16.98	28.05	146.54
			251988		758520		5836.21		1340.75		354.05		1830.98

Geological Ore Reserve
Hayl As Safil : 590 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453330	2618750	1000	2.99	2990	.59	17.64	.53	15.85	.42	1.26	2.07	6.19
2	453330	2618770	3000	2.97	8910	.48	42.77	.36	32.08	.27	2.41	1.52	13.54
3	453330	2618790	4000	2.95	11800	.38	44.84	.21	24.78	.14	1.65	1.04	12.27
4	453330	2618810	2000	2.95	5900	.33	19.47	.13	7.67	.07	.41	.71	4.19
5	453350	2618730	2000	3.00	6000	.68	40.80	.67	40.20	.56	3.36	2.60	15.60
6	453350	2618750	4000	2.98	11920	.57	67.94	.48	57.22	.41	4.89	2.14	25.51
7	453350	2618770	4000	2.96	11840	.40	47.36	.22	26.05	.18	2.13	1.30	15.39
8	453350	2618790	4000	2.95	11800	.33	38.94	.10	11.80	.07	.83	.87	10.27
9	453350	2618810	4000	2.94	11760	.33	38.81	.06	7.06	.03	.35	.64	7.53
10	453350	2618830	3000	2.94	8820	.32	28.22	.06	5.29	.02	.18	.47	4.15
11	453350	2618850	1000	2.94	2940	.30	8.82	.07	2.06	.02	.06	.34	1.00
12	453370	2618710	1000	2.96	2960	.43	12.73	.33	9.77	.68	2.01	3.74	11.07
13	453370	2618730	4000	2.99	11960	.60	71.76	.44	52.62	.58	6.94	3.20	38.27
14	453370	2618750	4000	2.98	11920	.56	66.75	.37	44.10	.40	4.77	2.44	29.08
15	453370	2618770	4000	2.96	11840	.44	52.10	.19	22.50	.20	2.37	1.53	18.12
16	453370	2618790	4000	2.94	11760	.30	35.28	.06	7.06	.04	.47	.79	9.29
17	453370	2618810	4000	2.95	11800	.38	44.84	.06	7.08	.04	.47	.67	7.91
18	453370	2618830	4000	2.95	11800	.39	46.02	.05	5.90	.02	.24	.41	4.84
19	453370	2618850	4000	2.95	11800	.34	40.12	.06	7.08	.02	.24	.33	3.89
20	453370	2618870	3520	2.94	10349	.29	30.01	.07	7.24	.02	.21	.30	3.10
21	453370	2618890	3600	2.94	10584	.29	30.69	.08	8.47	.02	.21	.32	3.39
22	453390	2618710	3000	2.99	8970	.63	56.51	.25	22.42	.86	7.71	5.25	47.09
23	453390	2618730	4000	3.01	12040	.74	89.10	.31	37.32	.66	7.95	4.39	52.86
24	453390	2618750	4000	3.00	12000	.69	82.80	.26	31.20	.46	5.52	3.37	40.44
25	453390	2618770	4000	2.98	11920	.56	66.75	.18	21.46	.28	3.34	2.21	26.34
26	453390	2618790	4000	2.97	11880	.47	55.84	.09	10.69	.12	1.43	1.21	14.37
27	453390	2618810	4000	2.97	11880	.49	58.21	.05	5.94	.05	.59	.64	7.60
28	453390	2618830	4000	2.98	11920	.53	63.18	.05	5.96	.03	.36	.40	4.77
29	453390	2618850	4000	2.97	11880	.46	54.65	.05	5.94	.02	.24	.29	3.45
30	453390	2618870	3200	2.95	9440	.36	33.98	.06	5.66	.02	.19	.29	2.74
31	453390	2618890	3600	2.94	10584	.31	32.81	.07	7.41	.02	.21	.30	3.18
32	453410	2618690	1000	3.04	3040	.97	29.49	.18	5.47	1.42	4.32	7.96	24.20
33	453410	2618710	4000	3.05	12200	1.00	122.00	.22	26.84	.98	11.96	6.57	80.15
34	453410	2618730	4000	3.05	12200	1.04	126.88	.24	29.28	.81	9.88	5.93	72.35
35	453410	2618750	4000	3.04	12160	.93	113.09	.23	27.97	.65	7.90	4.91	59.71
36	453410	2618770	4000	3.01	12040	.75	90.30	.16	19.26	.39	4.70	3.17	38.17
37	453410	2618790	4000	2.99	11960	.64	76.54	.09	10.76	.20	2.39	1.73	20.69
38	453410	2618810	4000	2.99	11960	.61	72.96	.04	4.78	.04	.48	.47	5.62
39	453410	2618830	4000	3.00	12000	.67	80.40	.03	3.60	.02	.24	.24	2.88
40	453410	2618850	4000	2.98	11920	.57	67.94	.04	4.77	.02	.24	.26	3.10
41	453410	2618870	4000	2.97	11880	.47	55.84	.05	5.94	.02	.24	.25	2.97
42	453410	2618890	4000	2.96	11840	.39	46.18	.06	7.10	.02	.24	.27	3.20
43	453430	2618690	3000	3.12	9360	1.48	138.53	.17	15.91	1.96	18.35	10.44	97.72
44	453430	2618710	4000	3.10	12400	1.38	171.12	.19	23.56	1.29	16.00	8.13	100.81
45	453430	2618730	3720	3.08	11458	1.21	138.64	.20	22.92	.91	10.43	6.99	80.09
46	453430	2618750	3600	3.06	11016	1.10	121.18	.19	20.93	.78	8.59	5.93	65.32
47	453430	2618770	4000	3.04	12160	.91	110.66	.14	17.02	.44	5.35	3.50	42.56
48	453430	2618790	4000	3.01	12040	.77	92.71	.09	10.84	.21	2.53	1.84	22.15
49	453430	2618810	4000	3.00	12000	.69	82.80	.04	4.80	.06	.72	.58	6.96
50	453430	2618830	4000	3.00	12000	.65	78.00	.03	3.60	.02	.24	.22	2.64
51	453430	2618850	4000	2.99	11960	.62	74.15	.03	3.59	.01	.12	.20	2.39
52	453430	2618870	4000	2.98	11920	.52	61.98	.04	4.77	.01	.12	.16	1.91
53	453430	2618890	4000	2.96	11840	.43	50.91	.05	5.92	.00	.00	.10	1.18
54	453450	2618690	4000	3.21	12840	2.13	273.49	.18	23.11	2.60	33.38	13.08	167.95
55	453450	2618710	4000	3.16	12640	1.74	219.94	.18	22.75	1.92	24.27	10.36	130.95
56	453450	2618730	2000	3.12	6240	1.48	92.35	.19	11.86	1.21	7.55	7.61	47.49
57	453450	2618750	2000	3.08	6160	1.23	75.77	.18	11.09	.78	4.80	5.66	34.87
58	453450	2618850	1000	2.99	2990	.61	18.24	.04	1.20	.00	.00	.09	.27

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
59	453450	2618870	3000	2.98	8940	.54	48.28	.04	3.58	.00	.00	.00	.00
60	453450	2618890	4000	2.97	11880	.47	55.84	.05	5.94	.00	.00	.00	.00
61	453470	2618690	4000	3.27	13080	2.56	334.85	.17	22.24	3.28	42.90	15.67	204.96
62	453470	2618710	2000	3.26	6520	2.63	171.48	.18	11.74	2.28	14.87	12.02	78.37
63	453470	2618890	2000	2.97	5940	.48	28.51	.05	2.97	.00	.00	.00	.00
64	453490	2618670	1000	3.60	3600	5.89	212.04	.22	7.92	3.08	11.09	18.54	66.74
65	453490	2618690	2400	3.56	8544	5.64	481.88	.20	17.09	3.12	26.66	18.65	159.35
66	453510	2618670	3000	3.69	11070	6.69	740.58	.29	32.10	2.64	29.22	17.48	193.50
67	453510	2618690	1600	3.95	6320	8.67	547.94	.23	14.54	3.71	23.45	26.09	164.89
68	453530	2618650	668	3.62	2418	5.97	144.36	.33	7.98	.68	1.64	6.88	16.64
69	453530	2618670	4000	3.64	14560	5.94	864.86	.35	50.96	2.17	31.60	14.50	211.12
70	453530	2618690	2800	3.53	9884	4.30	425.01	.40	39.54	3.18	31.43	18.07	178.60
71	453550	2618650	600	3.60	2160	5.64	121.82	.35	7.56	1.15	2.48	8.96	19.35
72	453550	2618670	2400	3.56	8544	4.91	419.51	.37	31.61	1.93	16.49	12.27	104.83
73	453550	2618690	2000	3.50	7000	4.19	293.30	.37	25.90	2.48	17.36	14.50	101.50
			237708		726651		8992.08		1187.17		487.18		3065.58

Geological Ore Reserve
Hayl As Safil : 580 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453330	2618770	1000	2.97	2970	.51	15.15	.48	14.26	.90	2.67	2.03	6.03
2	453330	2618790	3000	2.97	8910	.52	46.33	.27	24.06	.45	4.01	1.46	13.01
3	453330	2618810	1000	2.97	2970	.52	15.44	.15	4.46	.21	.62	1.03	3.06
4	453350	2618770	3000	2.98	8940	.56	50.06	.30	26.82	.53	4.74	1.66	14.84
5	453350	2618790	4000	2.98	11920	.55	65.56	.13	15.50	.17	2.03	1.20	14.30
6	453350	2618810	4000	2.98	11920	.53	63.18	.07	8.34	.05	.60	.91	10.85
7	453350	2618830	3000	2.98	8940	.54	48.28	.06	5.36	.02	.18	.64	5.72
8	453350	2618850	1000	2.98	2980	.55	16.39	.05	1.49	.02	.06	.42	1.25
9	453370	2618750	1000	3.00	3000	.69	20.70	.55	16.50	1.08	3.24	2.35	7.05
10	453370	2618770	4000	3.00	12000	.67	80.40	.27	32.40	.49	5.88	1.66	19.92
11	453370	2618790	4000	2.98	11920	.56	66.75	.08	9.54	.06	.72	1.11	13.23
12	453370	2618810	4000	2.98	11920	.57	67.94	.07	8.34	.06	.72	.90	10.73
13	453370	2618830	4000	2.98	11920	.54	64.37	.05	5.96	.02	.24	.59	7.03
14	453370	2618850	4000	2.98	11920	.54	64.37	.05	5.96	.03	.36	.41	4.89
15	453370	2618870	4000	2.98	11920	.56	66.75	.05	5.96	.02	.24	.34	4.05
16	453370	2618890	4000	2.98	11920	.56	66.75	.06	7.15	.03	.36	.36	4.29
17	453390	2618750	3000	3.04	9120	.99	90.29	.42	38.30	.88	8.03	2.25	20.52
18	453390	2618770	4000	3.03	12120	.93	112.72	.22	26.66	.50	6.06	1.75	21.21
19	453390	2618790	4000	3.02	12080	.85	102.68	.10	12.08	.23	2.78	1.30	15.70
20	453390	2618810	4000	3.00	12000	.69	82.80	.05	6.00	.10	1.20	.86	10.32
21	453390	2618830	4000	2.98	11920	.57	67.94	.05	5.96	.06	.72	.54	6.44
22	453390	2618850	4000	2.97	11880	.50	59.40	.04	4.75	.02	.24	.34	4.04
23	453390	2618870	4000	2.98	11920	.53	63.18	.04	4.77	.02	.24	.32	3.81
24	453390	2618890	4000	2.98	11920	.54	64.37	.05	5.96	.03	.36	.33	3.93
25	453410	2618730	2000	3.11	6220	1.45	90.19	.47	29.23	.88	5.47	2.57	15.99
26	453410	2618750	3200	3.10	9920	1.36	134.91	.32	31.74	.73	7.24	2.25	22.32
27	453410	2618770	4000	3.09	12360	1.34	165.62	.17	21.01	.54	6.67	1.94	23.98
28	453410	2618790	4000	3.08	12320	1.23	151.54	.07	8.62	.35	4.31	1.54	18.97
29	453410	2618810	4000	3.03	12120	.91	110.29	.04	4.85	.19	2.30	.98	11.88
30	453410	2618830	4000	2.97	11880	.47	55.84	.03	3.56	.02	.24	.27	3.21
31	453410	2618850	4000	2.97	11880	.50	59.40	.03	3.56	.03	.36	.31	3.68
32	453410	2618870	4000	2.97	11880	.48	57.02	.03	3.56	.02	.24	.27	3.21
33	453410	2618890	4000	2.97	11880	.49	58.21	.03	3.56	.02	.24	.28	3.33
34	453430	2618690	500	3.19	1595	1.98	31.58	.59	9.41	.78	1.24	2.89	4.61
35	453430	2618710	4000	3.18	12720	1.93	245.50	.50	63.60	.73	9.29	2.74	34.85

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
36	453430	2618730	4000	3.15	12600	1.75	220.50	.40	50.40	.71	8.95	2.53	31.88
37	453430	2618750	3200	3.15	10080	1.70	171.36	.26	26.21	.63	6.35	2.30	23.18
38	453430	2618770	4000	3.14	12560	1.63	204.73	.10	12.56	.54	6.78	2.04	25.62
39	453430	2618790	1128	3.15	3553	1.73	61.47	.03	1.07	.51	1.81	2.00	7.11
40	453430	2618810	4000	3.06	12240	1.13	138.31	.03	3.67	.27	3.30	1.19	14.57
41	453430	2618830	4000	3.00	12000	.70	84.00	.02	2.40	.11	1.32	.59	7.08
42	453430	2618850	4000	2.97	11880	.50	59.40	.02	2.38	.03	.36	.30	3.56
43	453430	2618870	4000	2.96	11840	.44	52.10	.02	2.37	.01	.12	.24	2.84
44	453430	2618890	4000	2.96	11840	.45	53.28	.02	2.37	.01	.12	.23	2.72
45	453450	2618690	1500	3.24	4860	2.31	112.27	.52	25.27	.53	2.58	2.81	13.66
46	453450	2618710	4000	3.23	12920	2.25	290.70	.47	60.72	.53	6.85	2.74	35.40
47	453450	2618730	3600	3.19	11484	2.00	229.68	.34	39.05	.57	6.55	2.49	28.60
48	453450	2618750	3600	3.17	11412	1.85	211.12	.19	21.68	.54	6.16	2.24	25.56
49	453450	2618770	4000	3.15	12600	1.76	221.76	.08	10.08	.51	6.43	2.05	25.83
50	453450	2618790	4000	3.13	12520	1.57	196.56	.03	3.76	.45	5.63	1.78	22.29
51	453450	2618810	4000	3.08	12320	1.21	149.07	.02	2.46	.31	3.82	1.28	15.77
52	453450	2618830	3000	3.01	9030	.78	70.43	.01	.90	.14	1.26	.69	6.23
53	453450	2618850	1000	2.97	2970	.46	13.66	.01	.30	.02	.06	.27	.80
54	453450	2618870	640	2.96	1894	.42	7.96	.01	.19	.01	.02	.21	.40
55	453450	2618890	4000	2.96	11840	.43	50.91	.01	1.18	.01	.12	.21	2.49
56	453470	2618690	2500	3.25	8125	2.41	195.81	.52	42.25	.47	3.82	2.82	22.91
57	453470	2618710	4000	3.22	12880	2.20	283.36	.42	54.10	.47	6.05	2.57	33.10
58	453470	2618730	4000	3.19	12760	1.99	253.92	.29	37.00	.50	6.38	2.34	29.86
59	453470	2618750	3000	3.16	9480	1.79	169.69	.19	18.01	.49	4.65	2.10	19.91
60	453470	2618770	1000	3.15	3150	1.70	53.55	.10	3.15	.46	1.45	1.93	6.08
61	453470	2618890	2000	2.96	5920	.41	24.27	.01	.59	.01	.06	.20	1.18
62	453490	2618690	1200	3.15	3780	1.72	65.02	.28	10.58	.46	1.74	2.01	7.60
63	453490	2618710	600	3.16	1896	1.77	33.56	.28	5.31	.47	.89	2.06	3.91
64	453490	2618730	1000	3.15	3150	1.74	54.81	.21	6.61	.47	1.48	2.00	6.30
			202668		617390		6355.17		925.94		178.96		798.68

Geological Ore Reserve
Hayl As Safil : 570 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453350	2618770	668	2.98	1991	.50	9.95	.16	3.19	.14	.28	1.25	2.49
2	453350	2618790	4000	2.98	11920	.52	61.98	.15	17.88	.13	1.55	1.20	14.30
3	453350	2618810	2000	2.98	5960	.55	32.78	.13	7.75	.11	.66	1.02	6.08
4	453370	2618770	2000	2.98	5960	.50	29.80	.16	9.54	.16	.95	1.25	7.45
5	453370	2618790	4000	2.98	11920	.52	61.98	.16	19.07	.14	1.67	1.25	14.90
6	453370	2618810	4000	2.98	11920	.52	61.98	.12	14.30	.11	1.31	.96	11.44
7	453370	2618830	4000	2.99	11960	.60	71.76	.09	10.76	.07	.84	.63	7.53
8	453370	2618850	4000	3.01	12040	.74	89.10	.06	7.22	.03	.36	.41	4.94
9	453370	2618870	4000	3.02	12080	.84	101.47	.06	7.25	.02	.24	.36	4.35
10	453370	2618890	4000	3.02	12080	.84	101.47	.06	7.25	.02	.24	.35	4.23
11	453390	2618770	3332	2.98	9929	.49	48.65	.15	14.89	.19	1.89	1.22	12.11
12	453390	2618790	4000	2.97	11880	.48	57.02	.14	16.63	.17	2.02	1.12	13.31
13	453390	2618810	4000	2.97	11880	.46	54.65	.10	11.88	.12	1.43	.81	9.62
14	453390	2618830	4000	2.97	11880	.49	58.21	.07	8.32	.06	.71	.47	5.58
15	453390	2618850	4000	2.99	11960	.59	70.56	.05	5.98	.03	.36	.30	3.59
16	453390	2618870	4000	3.00	12000	.73	87.60	.05	6.00	.02	.24	.31	3.72
17	453390	2618890	4000	3.01	12040	.78	93.91	.05	6.02	.02	.24	.32	3.85
18	453410	2618770	4000	2.98	11920	.52	61.98	.14	16.69	.21	2.50	1.13	13.47
19	453410	2618790	4000	2.97	11880	.44	52.27	.13	15.44	.23	2.73	1.16	13.78
20	453410	2618810	4000	2.97	11880	.44	52.27	.09	10.69	.13	1.54	.71	8.43

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
21	453410	2618830	4000	2.95	11800	.35	41.30	.03	3.54	.03	.35	.14	1.65
22	453410	2618850	4000	2.97	11880	.48	57.02	.04	4.75	.03	.36	.22	2.61
23	453410	2618870	4000	2.98	11920	.59	70.33	.04	4.77	.02	.24	.21	2.50
24	453410	2618890	4000	2.99	11960	.65	77.74	.04	4.78	.02	.24	.23	2.75
25	453430	2618770	4000	2.98	11920	.57	67.94	.14	16.69	.21	2.50	1.04	12.40
26	453430	2618790	4000	2.98	11920	.56	66.75	.13	15.50	.20	2.38	.98	11.68
27	453430	2618810	4000	2.97	11880	.45	53.46	.09	10.69	.14	1.66	.67	7.96
28	453430	2618830	4000	2.96	11840	.43	50.91	.05	5.92	.06	.71	.33	3.91
29	453430	2618850	4000	2.96	11840	.45	53.28	.03	3.55	.03	.36	.17	2.01
30	453430	2618870	4000	2.97	11880	.49	58.21	.03	3.56	.02	.24	.16	1.90
31	453430	2618890	4000	2.98	11920	.55	65.56	.04	4.77	.02	.24	.17	2.03
32	453450	2618690	500	3.30	1650	2.75	45.38	.54	8.91	.34	.56	2.57	4.24
33	453450	2618710	4000	3.27	13080	2.51	328.31	.50	65.40	.32	4.19	2.41	31.52
34	453450	2618730	2000	3.16	6320	1.77	111.86	.36	22.75	.29	1.83	1.89	11.94
35	453450	2618750	2000	3.07	6140	1.17	71.84	.24	14.74	.25	1.54	1.44	8.84
36	453450	2618770	4000	3.00	12000	.69	82.80	.15	18.00	.21	2.52	1.06	12.72
37	453450	2618790	4000	2.98	11920	.55	65.56	.12	14.30	.18	2.15	.87	10.37
38	453450	2618810	4000	2.97	11880	.49	58.21	.09	10.69	.13	1.54	.63	7.48
39	453450	2618830	4000	2.97	11880	.45	53.46	.05	5.94	.07	.83	.35	4.16
40	453450	2618850	4000	2.97	11880	.46	54.65	.03	3.56	.03	.36	.15	1.78
41	453450	2618870	4000	2.97	11880	.48	57.02	.03	3.56	.02	.24	.13	1.54
42	453450	2618890	4000	2.97	11880	.50	59.40	.03	3.56	.02	.24	.14	1.66
43	453470	2618690	1472	3.32	4887	2.89	141.24	.57	27.86	.35	1.71	2.68	13.10
44	453470	2618710	4000	3.25	13000	2.43	315.90	.47	61.10	.34	4.42	2.33	30.29
45	453470	2618730	4000	3.16	12640	1.78	224.99	.35	44.24	.30	3.79	1.86	23.51
46	453470	2618750	4000	3.08	12320	1.27	156.46	.24	29.57	.26	3.20	1.46	17.99
47	453470	2618770	4000	3.03	12120	.90	109.08	.18	21.82	.22	2.67	1.14	13.82
48	453470	2618790	4000	2.99	11960	.66	78.94	.12	14.35	.17	2.03	.84	10.05
49	453470	2618810	4000	2.98	11920	.52	61.98	.08	9.54	.12	1.43	.58	6.91
50	453470	2618830	2000	2.97	5940	.48	28.51	.05	2.97	.07	.42	.33	1.96
51	453470	2618850	1000	2.97	2970	.47	13.96	.03	.89	.03	.09	.16	.48
52	453470	2618870	3000	2.97	8910	.48	42.77	.03	2.67	.02	.18	.12	1.07
53	453470	2618890	4000	2.97	11880	.48	57.02	.03	3.56	.02	.24	.13	1.54
54	453490	2618690	2500	3.16	7900	1.82	143.78	.31	24.49	.35	2.77	1.85	14.62
55	453490	2618710	4000	3.16	12640	1.80	227.52	.31	39.18	.34	4.30	1.85	23.38
56	453490	2618730	3500	3.12	10920	1.50	163.80	.26	28.39	.31	3.39	1.62	17.69
57	453490	2618750	2500	3.08	7700	1.21	93.17	.21	16.17	.27	2.08	1.37	10.55
58	453490	2618770	1500	3.03	4545	.92	41.81	.16	7.27	.22	1.00	1.07	4.86
59	453490	2618790	500	3.00	1500	.71	10.65	.11	1.65	.17	.26	.80	1.20
60	453510	2618690	2600	3.01	7826	.76	59.48	.05	3.91	.35	2.74	1.03	8.06
61	453510	2618710	2000	3.07	6140	1.14	70.00	.15	9.21	.34	2.09	1.34	8.23
			207072		624068		4951.49		815.55		85.82		522.16

Geological Ore Reserve
Hayl As Safil : 560 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453370	2618770	500	2.98	1490	.54	8.05	.14	2.09	.17	.25	1.68	2.50
2	453370	2618790	4000	2.97	11880	.43	51.08	.16	19.01	.15	1.78	1.33	15.80
3	453370	2618810	4000	2.98	11920	.53	63.18	.14	16.69	.14	1.67	1.17	13.95
4	453370	2618830	3332	3.01	10029	.74	74.22	.14	14.04	.11	1.10	.83	8.32
5	453370	2618850	2000	3.06	6120	1.06	64.87	.15	9.18	.07	.43	.60	3.67
6	453370	2618870	668	3.09	2064	1.29	26.63	.17	3.51	.05	.10	.56	1.16
7	453370	2618890	2000	3.09	6180	1.30	80.34	.17	10.51	.05	.31	.55	3.40
8	453390	2618770	1500	3.01	4515	.73	32.96	.11	4.97	.21	.95	2.25	10.16
9	453390	2618790	4000	3.00	12000	.68	81.60	.11	13.20	.20	2.40	2.01	24.12
10	453390	2618810	4000	2.99	11960	.57	68.17	.10	11.96	.17	2.03	1.40	16.74

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
11	453390	2618830	4000	2.99	11960	.56	66.98	.10	11.96	.13	1.55	.76	9.09
12	453390	2618850	4000	3.01	12040	.76	91.50	.11	13.24	.09	1.08	.45	5.42
13	453390	2618870	4000	3.06	12240	1.06	129.74	.14	17.14	.06	.73	.47	5.75
14	453390	2618890	4000	3.07	12280	1.17	143.68	.15	18.42	.05	.61	.49	6.02
15	453410	2618770	2500	3.03	7575	.90	68.17	.08	6.06	.24	1.82	2.65	20.07
16	453410	2618790	1332	3.04	4049	.98	39.68	.07	2.83	.26	1.05	3.00	12.15
17	453410	2618810	4000	2.99	11960	.60	71.76	.07	8.37	.19	2.27	1.52	18.18
18	453410	2618830	4000	2.94	11760	.25	29.40	.05	5.88	.14	1.65	.27	3.18
19	453410	2618850	4000	2.98	11920	.53	63.18	.07	8.34	.10	1.19	.32	3.81
20	453410	2618870	4000	3.01	12040	.76	91.50	.09	10.84	.06	.72	.32	3.85
21	453410	2618890	4000	3.03	12120	.89	107.87	.10	12.12	.04	.48	.34	4.12
22	453430	2618770	3500	3.04	10640	.95	101.08	.07	7.45	.23	2.45	2.50	26.60
23	453430	2618790	4000	3.02	12080	.83	100.26	.06	7.25	.21	2.54	2.17	26.21
24	453430	2618810	4000	2.99	11960	.62	74.15	.06	7.18	.17	2.03	1.35	16.15
25	453430	2618830	4000	2.97	11880	.46	54.65	.05	5.94	.12	1.43	.53	6.30
26	453430	2618850	4000	2.97	11880	.47	55.84	.05	5.94	.07	.83	.23	2.73
27	453430	2618870	4000	2.98	11920	.57	67.94	.05	5.96	.04	.48	.21	2.50
28	453430	2618890	4000	3.00	12000	.69	82.80	.06	7.20	.02	.24	.23	2.76
29	453450	2618750	668	3.06	2044	1.13	23.10	.09	1.84	.20	.41	1.84	3.76
30	453450	2618770	4000	3.04	12160	.99	120.38	.08	9.73	.19	2.31	1.85	22.50
31	453450	2618790	4000	3.02	12080	.82	99.06	.07	8.46	.17	2.05	1.49	18.00
32	453450	2618810	4000	2.99	11960	.64	76.54	.06	7.18	.13	1.55	.95	11.36
33	453450	2618830	4000	2.98	11920	.54	64.37	.05	5.96	.09	1.07	.48	5.72
34	453450	2618850	4000	2.98	11920	.53	63.18	.04	4.77	.05	.60	.25	2.98
35	453450	2618870	4000	2.98	11920	.55	65.56	.03	3.58	.01	.12	.16	1.91
36	453450	2618890	4000	2.98	11920	.58	69.14	.04	4.77	.01	.12	.18	2.15
37	453470	2618750	2000	3.08	6160	1.25	77.00	.10	6.16	.18	1.11	1.51	9.30
38	453470	2618770	4000	3.05	12200	1.07	130.54	.09	10.98	.16	1.95	1.33	16.23
39	453470	2618790	4000	3.02	12080	.87	105.10	.07	8.46	.14	1.69	1.05	12.68
40	453470	2618810	4000	2.99	11960	.63	75.35	.06	7.18	.10	1.20	.59	7.06
41	453470	2618830	560	2.98	1669	.57	9.51	.05	.83	.08	.13	.40	.67
42	453470	2618850	1000	2.98	2980	.55	16.39	.04	1.19	.05	.15	.28	.83
43	453470	2618870	3000	2.98	8940	.55	49.17	.03	2.68	.02	.18	.19	1.70
44	453470	2618890	4000	2.98	11920	.56	66.75	.03	3.58	.01	.12	.16	1.91
45	453490	2618750	2000	3.11	6220	1.41	87.70	.12	7.46	.16	1.00	1.12	6.97
46	453490	2618770	4000	3.07	12280	1.14	139.99	.09	11.05	.15	1.84	1.03	12.65
47	453490	2618790	4000	3.03	12120	.89	107.87	.07	8.48	.12	1.45	.80	9.70
48	453490	2618810	2000	2.99	5980	.66	39.47	.06	3.59	.09	.54	.48	2.87
49	453490	2618890	1000	2.98	2980	.54	16.09	.03	.89	.01	.03	.17	.51
50	453510	2618750	1000	3.11	3110	1.46	45.41	.12	3.73	.16	.50	1.04	3.23
51	453510	2618770	1600	3.08	4928	1.21	59.63	.10	4.93	.14	.69	.88	4.34
52	453510	2618790	668	3.04	2031	.99	20.10	.08	1.62	.12	.24	.73	1.48
			160828		483944		3618.67		396.36		55.25		435.21

Geological Ore Reserve
Hayl As Safil : 550 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453370	2618790	796	2.96	2356	.39	9.19	.19	4.48	.11	.26	1.19	2.80
2	453370	2618810	2000	2.96	5920	.41	24.27	.17	10.06	.09	.53	.88	5.21
3	453390	2618790	3000	2.96	8880	.38	33.74	.15	13.32	.10	.89	.90	7.99
4	453390	2618810	4000	2.96	11840	.38	44.99	.13	15.39	.08	.95	.63	7.46
5	453390	2618830	3332	2.96	9863	.42	41.42	.12	11.84	.06	.59	.39	3.85
6	453390	2618850	2000	2.97	5940	.51	30.29	.14	8.32	.05	.30	.31	1.84
7	453390	2618870	668	2.99	1997	.61	12.18	.19	3.79	.04	.08	.34	.68
8	453390	2618890	4000	2.99	11960	.64	76.54	.20	23.92	.04	.48	.37	4.43
9	453410	2618790	4000	2.95	11800	.36	42.48	.11	12.98	.09	1.06	.63	7.43
10	453410	2618810	4000	2.95	11800	.35	41.30	.08	9.44	.07	.83	.39	4.60

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
11	453410	2618830	4000	2.95	11800	.34	40.12	.05	5.90	.05	.59	.12	1.42
12	453410	2618850	4000	2.97	11880	.49	58.21	.09	10.69	.04	.48	.21	2.49
13	453410	2618870	4000	2.99	11960	.62	74.15	.13	15.55	.03	.36	.24	2.87
14	453410	2618890	4000	3.00	12000	.68	81.60	.15	18.00	.02	.24	.29	3.48
15	453430	2618770	668	2.95	1971	.41	8.08	.09	1.77	.10	.20	.59	1.16
16	453430	2618790	4000	2.95	11800	.36	42.48	.08	9.44	.09	1.06	.48	5.66
17	453430	2618810	4000	2.94	11760	.33	38.81	.06	7.06	.08	.94	.30	3.53
18	453430	2618830	4000	2.95	11800	.38	44.84	.06	7.08	.07	.83	.19	2.24
19	453430	2618850	4000	2.98	11920	.53	63.18	.07	8.34	.04	.48	.16	1.91
20	453430	2618870	4000	3.00	12000	.68	81.60	.09	10.80	.02	.24	.19	2.28
21	453430	2618890	4000	3.01	12040	.73	87.89	.10	12.04	.02	.24	.26	3.13
22	453450	2618770	2000	2.96	5920	.44	26.05	.08	4.74	.11	.65	.50	2.96
23	453450	2618790	4000	2.94	11760	.35	41.16	.06	7.06	.10	1.18	.38	4.47
24	453450	2618810	4000	2.93	11720	.31	36.33	.05	5.86	.10	1.17	.29	3.40
25	453450	2618830	4000	2.94	11760	.36	42.34	.05	5.88	.09	1.06	.23	2.70
26	453450	2618850	4000	2.97	11880	.53	62.96	.06	7.13	.06	.71	.22	2.61
27	453450	2618870	4000	3.02	12080	.81	97.85	.08	9.66	.01	.12	.16	1.93
28	453450	2618890	4000	3.00	12000	.69	82.80	.07	8.40	.01	.12	.36	4.32
29	453470	2618770	3332	2.96	9863	.43	42.41	.06	5.92	.11	1.08	.41	4.04
30	453470	2618790	4000	2.94	11760	.36	42.34	.05	5.88	.11	1.29	.33	3.88
31	453470	2618810	4000	2.92	11680	.29	33.87	.04	4.67	.11	1.28	.29	3.39
32	453470	2618830	3200	2.91	9312	.25	23.28	.03	2.79	.13	1.21	.25	2.33
33	453470	2618850	4000	2.95	11800	.43	50.74	.04	4.72	.07	.83	.35	4.13
34	453470	2618870	4000	2.97	11880	.53	62.96	.05	5.94	.03	.36	.50	5.94
35	453470	2618890	4000	2.98	11920	.52	61.98	.04	4.77	.01	.12	.64	7.63
36	453490	2618750	2000	2.99	5980	.61	36.48	.07	4.19	.12	.72	.53	3.17
37	453490	2618770	4000	2.96	11840	.42	49.73	.05	5.92	.10	1.18	.36	4.26
38	453490	2618790	4000	2.94	11760	.34	39.98	.04	4.70	.10	1.18	.30	3.53
39	453490	2618810	2000	2.93	5860	.30	17.58	.03	1.76	.11	.64	.29	1.70
40	453490	2618850	1000	2.93	2930	.30	8.79	.03	.88	.08	.23	.53	1.55
41	453490	2618870	3000	2.94	8820	.33	29.11	.02	1.76	.05	.44	.80	7.06
42	453490	2618890	2320	2.94	6821	.28	19.10	.01	.68	.03	.20	1.00	6.82
43	453510	2618730	1000	3.02	3020	.83	25.07	.09	2.72	.14	.42	.72	2.17
44	453510	2618750	4000	2.99	11960	.65	77.74	.07	8.37	.12	1.44	.55	6.58
45	453510	2618770	4000	2.96	11840	.44	52.10	.05	5.92	.09	1.07	.36	4.26
46	453510	2618790	852	2.95	2513	.35	8.80	.04	1.01	.08	.20	.28	.70
47	453530	2618730	3000	3.01	9030	.77	69.53	.08	7.22	.13	1.17	.67	6.05
48	453530	2618750	3000	2.99	8970	.63	56.51	.07	6.28	.11	.99	.54	4.84
49	453530	2618770	1000	2.96	2960	.44	13.02	.05	1.48	.09	.27	.36	1.07
			156168		462926		2187.98		356.52		32.95		183.97

Geological Ore Reserve
Hayl As Safil : 540 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453410	2618790	2000	2.95	5900	.36	21.24	.07	4.13	.05	.30	.26	1.53
2	453410	2618810	4000	2.95	11800	.33	38.94	.08	9.44	.04	.47	.21	2.48
3	453410	2618830	4000	2.94	11760	.29	34.10	.08	9.41	.03	.35	.17	2.00
4	453410	2618850	4000	2.95	11800	.33	38.94	.06	7.08	.03	.35	.17	2.01
5	453410	2618870	4000	2.95	11800	.36	42.48	.05	5.90	.02	.24	.20	2.36
6	453410	2618890	4000	2.95	11800	.38	44.84	.04	4.72	.01	.12	.25	2.95
7	453430	2618790	4000	2.96	11840	.43	50.91	.06	7.10	.06	.71	.32	3.79
8	453430	2618810	4000	2.96	11840	.42	49.73	.07	8.29	.05	.59	.30	3.55
9	453430	2618830	4000	2.96	11840	.39	46.18	.06	7.10	.04	.47	.27	3.20
10	453430	2618850	4000	2.95	11800	.38	44.84	.05	5.90	.03	.35	.21	2.48

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
11	453430	2618870	4000	2.96	11840	.40	47.36	.03	3.55	.02	.24	.23	2.72
12	453430	2618890	4000	2.96	11840	.41	48.54	.03	3.55	.01	.12	.29	3.43
13	453450	2618790	4000	2.98	11920	.51	60.79	.05	5.96	.07	.83	.38	4.53
14	453450	2618810	4000	2.98	11920	.55	65.56	.05	5.96	.07	.83	.42	5.01
15	453450	2618830	4000	2.98	11920	.53	63.18	.05	5.96	.06	.72	.42	5.01
16	453450	2618850	4000	2.97	11880	.48	57.02	.04	4.75	.04	.48	.36	4.28
17	453450	2618870	4000	2.96	11840	.43	50.91	.02	2.37	.01	.12	.20	2.37
18	453450	2618890	4000	2.96	11840	.43	50.91	.02	2.37	.01	.12	.47	5.56
19	453470	2618770	2000	2.97	5940	.50	29.70	.04	2.38	.08	.48	.43	2.55
20	453470	2618790	4000	2.99	11960	.58	69.37	.04	4.78	.08	.96	.40	4.78
21	453470	2618810	4000	3.00	12000	.64	76.80	.04	4.80	.08	.96	.50	6.00
22	453470	2618830	4000	3.00	12000	.66	79.20	.04	4.80	.09	1.08	.57	6.84
23	453470	2618850	4000	2.98	11920	.55	65.56	.03	3.58	.05	.60	.60	7.15
24	453470	2618870	4000	2.97	11880	.48	57.02	.02	2.38	.02	.24	.72	8.55
25	453470	2618890	4000	2.97	11880	.46	54.65	.01	1.19	.01	.12	.89	10.57
26	453490	2618750	2000	2.95	5900	.37	21.83	.03	1.77	.09	.53	.55	3.25
27	453490	2618770	4000	2.99	11960	.58	69.37	.03	3.59	.09	1.08	.37	4.43
28	453490	2618790	4000	3.00	12000	.66	79.20	.03	3.60	.08	.96	.34	4.08
29	453490	2618810	4000	3.00	12000	.67	80.40	.03	3.60	.09	1.08	.44	5.28
30	453490	2618830	4000	3.00	12000	.64	76.80	.03	3.60	.08	.96	.62	7.44
31	453490	2618850	4000	2.99	11960	.58	69.37	.03	3.59	.06	.72	.86	10.29
32	453490	2618870	4000	2.97	11880	.51	60.59	.02	2.38	.04	.48	1.16	13.78
33	453490	2618890	4000	2.97	11880	.49	58.21	.01	1.19	.02	.24	1.42	16.87
34	453510	2618750	4000	2.95	11800	.35	41.30	.03	3.54	.09	1.06	.55	6.49
35	453510	2618770	4000	2.99	11960	.58	69.37	.02	2.39	.08	.96	.34	4.07
36	453510	2618790	4000	3.00	12000	.67	80.40	.02	2.40	.08	.96	.24	2.88
37	453510	2618850	668	2.99	1997	.58	11.58	.02	.40	.06	.12	.93	1.86
38	453510	2618870	2000	2.98	5960	.52	30.99	.01	.60	.04	.24	1.31	7.81
39	453510	2618890	3332	2.97	9896	.49	48.49	.01	.99	.03	.30	1.44	14.25
40	453530	2618750	2000	2.95	5900	.37	21.83	.03	1.77	.09	.53	.51	3.01
41	453530	2618770	3000	2.98	8940	.57	50.96	.02	1.79	.08	.72	.33	2.95
42	453530	2618790	1000	3.00	3000	.67	20.10	.02	.60	.08	.24	.26	.78
			150000		445793		2179.57		165.23		22.99		215.21

Geological Ore Reserve
Hayl As Safil : 530 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453410	2618870	2000	2.94	5880	.30	17.64	.02	1.18	.04	.24	.14	.82
2	453410	2618890	4000	2.94	11760	.32	37.63	.02	2.35	.03	.35	.15	1.76
3	453430	2618790	500	2.95	1475	.36	5.31	.04	.59	.07	.10	.14	.21
4	453430	2618810	4000	2.94	11760	.25	29.40	.04	4.70	.07	.82	.11	1.29
5	453430	2618830	4000	2.93	11720	.25	29.30	.04	4.69	.06	.70	.11	1.29
6	453430	2618850	4000	2.94	11760	.29	34.10	.03	3.53	.04	.47	.14	1.65
7	453430	2618870	4000	2.95	11800	.33	38.94	.02	2.36	.02	.24	.16	1.89
8	453430	2618890	4000	2.95	11800	.34	40.12	.01	1.18	.02	.24	.17	2.01
9	453450	2618790	1500	2.97	4455	.45	20.05	.04	1.78	.06	.27	.18	.80
10	453450	2618810	4000	2.94	11760	.29	34.10	.04	4.70	.07	.82	.14	1.65
11	453450	2618830	4000	2.94	11760	.27	31.75	.03	3.53	.06	.71	.14	1.65
12	453450	2618850	4000	2.94	11760	.30	35.28	.02	2.35	.04	.47	.15	1.76
13	453450	2618870	4000	2.95	11800	.36	42.48	.01	1.18	.01	.12	.18	2.12
14	453450	2618890	4000	2.95	11800	.35	41.30	.01	1.18	.01	.12	.17	2.01
15	453470	2618790	2500	3.00	7500	.63	47.25	.04	3.00	.05	.38	.25	1.88
16	453470	2618810	4000	2.96	11840	.40	47.36	.04	4.74	.06	.71	.18	2.13
17	453470	2618830	4000	2.94	11760	.25	29.40	.04	4.70	.07	.82	.14	1.65
18	453470	2618850	4000	2.94	11760	.30	35.28	.03	3.53	.04	.47	.16	1.88
19	453470	2618870	4000	2.95	11800	.34	40.12	.01	1.18	.02	.24	.17	2.01
20	453470	2618890	4000	2.95	11800	.35	41.30	.01	1.18	.01	.12	.18	2.12

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
21	453490	2618790	3500	3.03	10605	.89	94.38	.03	3.18	.04	.42	.33	3.50
22	453490	2618810	4000	3.00	12000	.67	80.40	.03	3.60	.05	.60	.26	3.12
23	453490	2618830	4000	2.96	11840	.41	48.54	.03	3.55	.06	.71	.19	2.25
24	453490	2618850	4000	2.95	11800	.33	38.94	.03	3.54	.04	.47	.17	2.01
25	453490	2618870	4000	2.95	11800	.33	38.94	.01	1.18	.03	.35	.18	2.12
26	453490	2618890	4000	2.95	11800	.34	40.12	.01	1.18	.02	.24	.18	2.12
27	453510	2618770	2000	3.07	6140	1.11	68.15	.03	1.84	.03	.18	.39	2.39
28	453510	2618790	4000	3.07	12280	1.14	139.99	.03	3.68	.03	.37	.40	4.91
29	453510	2618810	4000	3.03	12120	.89	107.87	.03	3.64	.04	.48	.33	4.00
30	453510	2618830	4000	2.99	11960	.63	75.35	.03	3.59	.04	.48	.26	3.11
31	453510	2618850	4000	2.97	11880	.47	55.84	.02	2.38	.04	.48	.21	2.49
32	453510	2618870	4000	2.95	11800	.34	40.12	.01	1.18	.03	.35	.20	2.36
33	453510	2618890	4000	2.95	11800	.34	40.12	.01	1.18	.02	.24	.19	2.24
34	453530	2618770	4000	3.07	12280	1.14	139.99	.03	3.68	.03	.37	.40	4.91
35	453530	2618790	3000	3.06	9180	1.08	99.14	.03	2.75	.03	.28	.38	3.49
36	453530	2618810	1000	3.04	3040	.97	29.49	.03	.91	.03	.09	.35	1.06
37	453530	2618830	3000	3.01	9030	.74	66.82	.03	2.71	.04	.36	.29	2.62
38	453530	2618850	4000	2.98	11920	.56	66.75	.02	2.38	.04	.48	.24	2.86
39	453530	2618870	4000	2.97	11880	.44	52.27	.02	2.38	.03	.36	.22	2.61
40	453530	2618890	4000	2.95	11800	.36	42.48	.01	1.18	.02	.24	.21	2.48
			143000		424705		2043.84		103.35		15.94		89.24

Geological Ore Reserve
Hayl As Safil : 520 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453430	2618810	2000	2.94	5880	.30	17.64	.03	1.76	.05	.29	.15	.88
2	453430	2618830	4000	2.94	11760	.31	36.46	.03	3.53	.04	.47	.19	2.23
3	453430	2618850	4000	2.95	11800	.37	43.66	.04	4.72	.03	.35	.30	3.54
4	453430	2618870	4000	2.96	11840	.40	47.36	.04	4.74	.02	.24	.40	4.74
5	453430	2618890	4000	2.96	11840	.41	48.54	.04	4.74	.02	.24	.43	5.09
6	453450	2618810	4000	2.94	11760	.28	32.93	.04	4.70	.06	.71	.14	1.65
7	453450	2618830	4000	2.94	11760	.26	30.58	.04	4.70	.06	.71	.18	2.12
8	453450	2618850	4000	2.94	11760	.32	37.63	.04	4.70	.04	.47	.31	3.65
9	453450	2618870	4000	2.96	11840	.43	50.91	.04	4.74	.02	.24	.47	5.56
10	453450	2618890	4000	2.96	11840	.39	46.18	.03	3.55	.02	.24	.46	5.45
11	453470	2618790	668	3.00	2004	.66	13.23	.03	.60	.07	.14	.23	.46
12	453470	2618810	4000	2.95	11800	.36	42.48	.04	4.72	.08	.94	.15	1.77
13	453470	2618850	4000	2.94	11760	.27	31.75	.03	3.53	.05	.59	.27	3.18
14	453470	2618870	4000	2.95	11800	.33	38.94	.03	3.54	.03	.35	.41	4.84
15	453470	2618890	4000	2.95	11800	.34	40.12	.02	2.36	.02	.24	.46	5.43
16	453490	2618790	2000	3.03	6060	.93	56.36	.03	1.82	.08	.48	.31	1.88
17	453490	2618810	4000	2.99	11960	.66	78.94	.04	4.78	.08	.96	.24	2.87
18	453490	2618830	4000	2.95	11800	.37	43.66	.03	3.54	.07	.83	.19	2.24
19	453490	2618850	4000	2.94	11760	.26	30.58	.03	3.53	.06	.71	.26	3.06
20	453490	2618870	4000	2.94	11760	.27	31.75	.02	2.35	.04	.47	.36	4.23
21	453490	2618890	4000	2.94	11760	.27	31.75	.01	1.18	.03	.35	.42	4.94
22	453510	2618790	3332	3.08	10263	1.23	126.23	.03	3.08	.08	.82	.39	4.00
23	453510	2618810	4000	3.02	12080	.85	102.68	.03	3.62	.08	.97	.32	3.87
24	453510	2618830	4000	2.97	11880	.50	59.40	.03	3.56	.07	.83	.29	3.45
25	453510	2618850	4000	2.95	11800	.33	38.94	.03	3.54	.06	.71	.30	3.54
26	453510	2618870	4000	2.94	11760	.25	29.40	.02	2.35	.05	.59	.36	4.23
27	453510	2618890	4000	2.94	11760	.27	31.75	.01	1.18	.04	.47	.40	4.70
28	453530	2618790	4000	3.04	12160	.97	117.95	.03	3.65	.08	.97	.37	4.50
29	453530	2618810	4000	3.01	12040	.75	90.30	.04	4.82	.08	.96	.35	4.21
30	453530	2618830	4000	2.97	11880	.47	55.84	.04	4.75	.07	.83	.32	3.80

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
31	453530	2618850	4000	2.94	11760	.29	34.10	.03	3.53	.06	.71	.32	3.76
32	453530	2618870	4000	2.94	11760	.25	29.40	.02	2.35	.05	.59	.34	4.00
33	453530	2618890	4000	2.93	11720	.23	26.96	.02	2.34	.04	.47	.39	4.57
34	453550	2618830	1000	2.94	2940	.27	7.94	.04	1.18	.07	.21	.35	1.03
35	453550	2618850	3000	2.93	8790	.21	18.46	.04	3.52	.06	.53	.35	3.08
			128000		378937		1600.78		117.30		19.65		122.54

Geological Ore Reserve
Hayl As Safil : 510 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453450	2618850	2000	2.96	5920	.43	25.46	.02	1.18	.03	.18	.42	2.49
2	453450	2618870	4000	2.97	11880	.46	54.65	.02	2.38	.03	.36	.41	4.87
3	453450	2618890	4000	2.96	11840	.41	48.54	.02	2.37	.03	.36	.41	4.85
4	453470	2618810	668	2.95	1971	.31	6.11	.07	1.38	.04	.08	.34	.67
5	453470	2618830	4000	2.95	11800	.35	41.30	.04	4.72	.04	.47	.39	4.60
6	453470	2618850	4000	2.95	11800	.37	43.66	.02	2.36	.04	.47	.42	4.96
7	453470	2618870	4000	2.95	11800	.36	42.48	.02	2.36	.03	.35	.42	4.96
8	453470	2618890	4000	2.95	11800	.34	40.12	.01	1.18	.03	.35	.41	4.84
9	453490	2618810	2000	2.94	5880	.28	16.46	.08	4.70	.05	.29	.34	2.00
10	453490	2618830	4000	2.94	11760	.29	34.10	.05	5.88	.06	.71	.41	4.82
11	453490	2618850	4000	2.94	11760	.29	34.10	.03	3.53	.05	.59	.45	5.29
12	453490	2618870	4000	2.94	11760	.27	31.75	.01	1.18	.05	.59	.47	5.53
13	453490	2618890	3680	2.93	10782	.24	25.88	.01	1.08	.05	.54	.47	5.07
14	453510	2618810	3332	2.94	9796	.25	24.49	.09	8.82	.06	.59	.36	3.53
15	453510	2618830	4000	2.94	11760	.27	31.75	.06	7.06	.08	.94	.49	5.76
16	453510	2618850	4000	2.94	11760	.27	31.75	.03	3.53	.08	.94	.53	6.23
17	453510	2618870	4000	2.93	11720	.24	28.13	.01	1.17	.08	.94	.57	6.68
18	453510	2618890	4000	2.93	11720	.24	28.13	.01	1.17	.08	.94	.56	6.56
19	453530	2618790	1000	2.94	2940	.25	7.35	.09	2.65	.07	.21	.39	1.15
20	453530	2618810	4000	2.94	11760	.26	30.58	.08	9.41	.09	1.06	.49	5.76
21	453530	2618830	4000	2.94	11760	.27	31.75	.05	5.88	.11	1.29	.61	7.17
22	453530	2618850	4000	2.94	11760	.27	31.75	.04	4.70	.12	1.41	.65	7.64
23	453530	2618870	4000	2.93	11720	.25	29.30	.02	2.34	.12	1.41	.68	7.97
24	453530	2618890	4000	2.93	11720	.25	29.30	.01	1.17	.11	1.29	.68	7.97
25	453550	2618790	3000	2.94	8820	.28	24.70	.07	6.17	.12	1.06	.60	5.29
26	453550	2618810	4000	2.95	11800	.29	34.22	.05	5.90	.14	1.65	.72	8.50
27	453550	2618830	4000	2.95	11800	.30	35.40	.04	4.72	.16	1.89	.81	9.56
28	453550	2618850	4000	2.94	11760	.29	34.10	.03	3.53	.16	1.88	.83	9.76
29	453550	2618870	4000	2.94	11760	.28	32.93	.02	2.35	.15	1.76	.79	9.29
30	453550	2618890	4000	2.94	11760	.26	30.58	.02	2.35	.14	1.65	.77	9.06
31	453570	2618790	4000	2.95	11800	.30	35.40	.05	5.90	.16	1.89	.78	9.20
32	453570	2618810	4000	2.95	11800	.31	36.58	.04	4.72	.18	2.12	.90	10.62
33	453570	2618830	4000	2.95	11800	.32	37.76	.03	3.54	.20	2.36	.97	11.45
34	453570	2618850	4000	2.95	11800	.31	36.58	.03	3.54	.19	2.24	.92	10.86
35	453570	2618870	4000	2.94	11760	.29	34.10	.02	2.35	.18	2.12	.88	10.35
36	453570	2618890	4000	2.94	11760	.28	32.93	.02	2.35	.16	1.88	.85	10.00
37	453590	2618790	4000	2.95	11800	.31	36.58	.04	4.72	.18	2.12	.88	10.38
38	453590	2618810	4000	2.95	11800	.32	37.76	.03	3.54	.20	2.36	.96	11.33
39	453590	2618830	4000	2.95	11800	.32	37.76	.03	3.54	.20	2.36	.97	11.45
40	453590	2618850	4000	2.95	11800	.31	36.58	.03	3.54	.20	2.36	.96	11.33
41	453590	2618870	4000	2.95	11800	.30	35.40	.02	2.36	.19	2.24	.95	11.21
42	453590	2618890	4000	2.94	11760	.29	34.10	.02	2.35	.19	2.23	.94	11.05
			155680		458349		1372.36		149.67		52.53		302.05

Geological Ore Reserve
Hayl As Safil : 500 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453470	2618830	1332	2.95	3929	.35	13.75	.03	1.18	.10	.39	.59	2.32
2	453470	2618850	4000	2.94	11760	.29	34.10	.02	2.35	.04	.47	.54	6.35
3	453470	2618870	4000	2.94	11760	.26	30.58	.02	2.35	.02	.24	.52	6.12
4	453470	2618890	2000	2.94	5880	.24	14.11	.01	.59	.02	.12	.52	3.06
5	453490	2618810	332	2.97	986	.48	4.73	.04	.39	.19	.19	.66	.65
6	453490	2618830	3668	2.96	10857	.41	44.51	.04	4.34	.16	1.74	.64	6.95
7	453490	2618850	4000	2.95	11800	.30	35.40	.02	2.36	.11	1.30	.60	7.08
8	453490	2618870	4000	2.93	11720	.20	23.44	.01	1.17	.09	1.05	.58	6.80
9	453510	2618810	2668	2.98	7951	.55	43.73	.05	3.98	.25	1.99	.71	5.64
10	453510	2618830	4000	2.97	11880	.48	57.02	.05	5.94	.22	2.61	.69	8.20
11	453510	2618850	4000	2.96	11840	.37	43.81	.03	3.55	.19	2.25	.67	7.93
12	453510	2618870	4000	2.94	11760	.21	24.70	.02	2.35	.17	2.00	.64	7.53
13	453530	2618790	1000	3.00	3000	.66	19.80	.07	2.10	.31	.93	.76	2.28
14	453530	2618810	4000	3.00	12000	.65	78.00	.07	8.40	.31	3.72	.77	9.24
15	453530	2618830	4000	2.99	11960	.58	69.37	.06	7.18	.30	3.59	.75	8.97
16	453530	2618850	4000	2.98	11920	.50	59.60	.05	5.96	.27	3.22	.73	8.70
17	453530	2618870	4000	2.96	11840	.36	42.62	.03	3.55	.24	2.84	.70	8.29
18	453530	2618890	4000	2.95	11800	.28	33.04	.02	2.36	.21	2.48	.68	8.02
19	453550	2618790	3000	3.01	9030	.73	65.92	.08	7.22	.36	3.25	.80	7.22
20	453550	2618810	4000	3.01	12040	.75	90.30	.08	9.63	.37	4.45	.82	9.87
21	453550	2618830	4000	3.01	12040	.74	89.10	.08	9.63	.37	4.45	.82	9.87
22	453550	2618850	4000	3.00	12000	.66	79.20	.07	8.40	.35	4.20	.80	9.60
23	453550	2618870	4000	2.98	11920	.51	60.79	.05	5.96	.30	3.58	.76	9.06
24	453550	2618890	4000	2.96	11840	.42	49.73	.04	4.74	.27	3.20	.73	8.64
25	453570	2618790	3000	3.02	9060	.79	71.57	.09	8.15	.39	3.53	.83	7.52
26	453570	2618810	4000	3.02	12080	.80	96.64	.09	10.87	.40	4.83	.84	10.15
27	453570	2618830	4000	3.02	12080	.81	97.85	.09	10.87	.40	4.83	.84	10.15
28	453570	2618850	4000	3.01	12040	.75	90.30	.08	9.63	.38	4.58	.83	9.99
29	453570	2618870	4000	2.99	11960	.62	74.15	.07	8.37	.35	4.19	.80	9.57
30	453570	2618890	4000	2.98	11920	.52	61.98	.05	5.96	.32	3.81	.77	9.18
31	453590	2618810	1000	3.02	3020	.81	24.46	.09	2.72	.40	1.21	.84	2.54
32	453590	2618830	3000	3.02	9060	.80	72.48	.09	8.15	.39	3.53	.84	7.61
33	453590	2618850	4000	3.01	12040	.76	91.50	.08	9.63	.39	4.70	.83	9.99
34	453590	2618870	4000	3.00	12000	.70	84.00	.08	9.60	.38	4.56	.82	9.84
35	453590	2618890	4000	2.99	11960	.61	72.96	.07	8.37	.36	4.31	.81	9.69
			121000		360733		1945.26		198.03		98.33		264.62

Geological Ore Reserve
Hayl As Safil : 490 m
Cut-off grade : 0.20 Cu

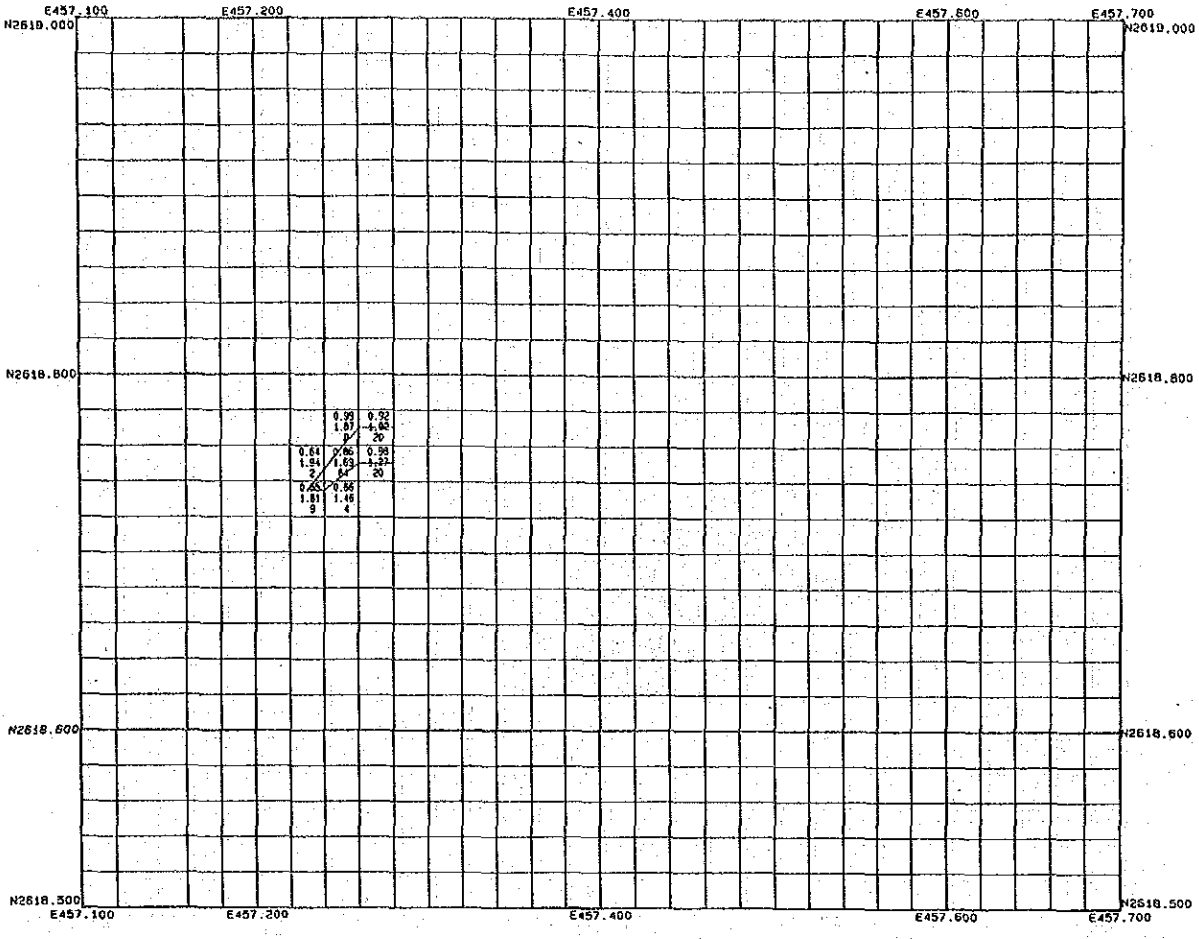
No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	453470	2618830	1332	2.94	3916	.25	9.79	.03	1.17	.00	.00	.00	.00
2	453470	2618850	2000	2.93	5860	.21	12.31	.02	1.17	.00	.00	.00	.00
3	453490	2618810	332	2.95	979	.33	3.23	.06	.59	.00	.00	.00	.00
4	453490	2618830	3668	2.94	10784	.29	31.27	.05	5.39	.00	.00	.00	.00
5	453490	2618850	4000	2.94	11760	.24	28.22	.03	3.53	.00	.00	.00	.00
6	453510	2618810	2668	2.95	7871	.37	29.12	.08	6.30	.00	.00	.00	.00
7	453510	2618830	4000	2.95	11800	.34	40.12	.07	8.26	.00	.00	.00	.00
8	453510	2618850	4000	2.94	11760	.28	32.93	.04	4.70	.00	.00	.00	.00
9	453510	2618870	4000	2.93	11720	.21	24.61	.02	2.34	.00	.00	.00	.00
10	453530	2618810	2000	2.98	5920	.42	24.86	.10	5.92	.00	.00	.00	.00

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
11	453530	2618830	4000	2.96	11840	.39	46.18	.09	10.66	.00	.00	.00	.00
12	453530	2618850	4000	2.95	11800	.35	41.30	.07	8.26	.00	.00	.00	.00
13	453530	2618870	4000	2.94	11760	.28	32.93	.05	5.88	.00	.00	.00	.00
14	453530	2618890	4000	2.94	11760	.25	29.40	.03	3.53	.00	.00	.00	.00
15	453550	2618830	2000	2.97	5940	.47	27.92	.12	7.13	.00	.00	.00	.00
16	453550	2618850	4000	2.96	11840	.43	50.91	.10	11.84	.00	.00	.00	.00
17	453550	2618870	4000	2.95	11800	.36	42.48	.07	8.26	.00	.00	.00	.00
18	453550	2618890	4000	2.95	11800	.31	36.58	.06	7.08	.00	.00	.00	.00
19	453570	2618850	2000	2.97	5940	.47	27.92	.12	7.13	.00	.00	.00	.00
20	453570	2618870	4000	2.96	11840	.41	48.54	.10	11.84	.00	.00	.00	.00
21	453570	2618890	4000	2.95	11800	.36	42.48	.08	9.44	.00	.00	.00	.00
			68000		200490		663.11		130.42		.00		.00

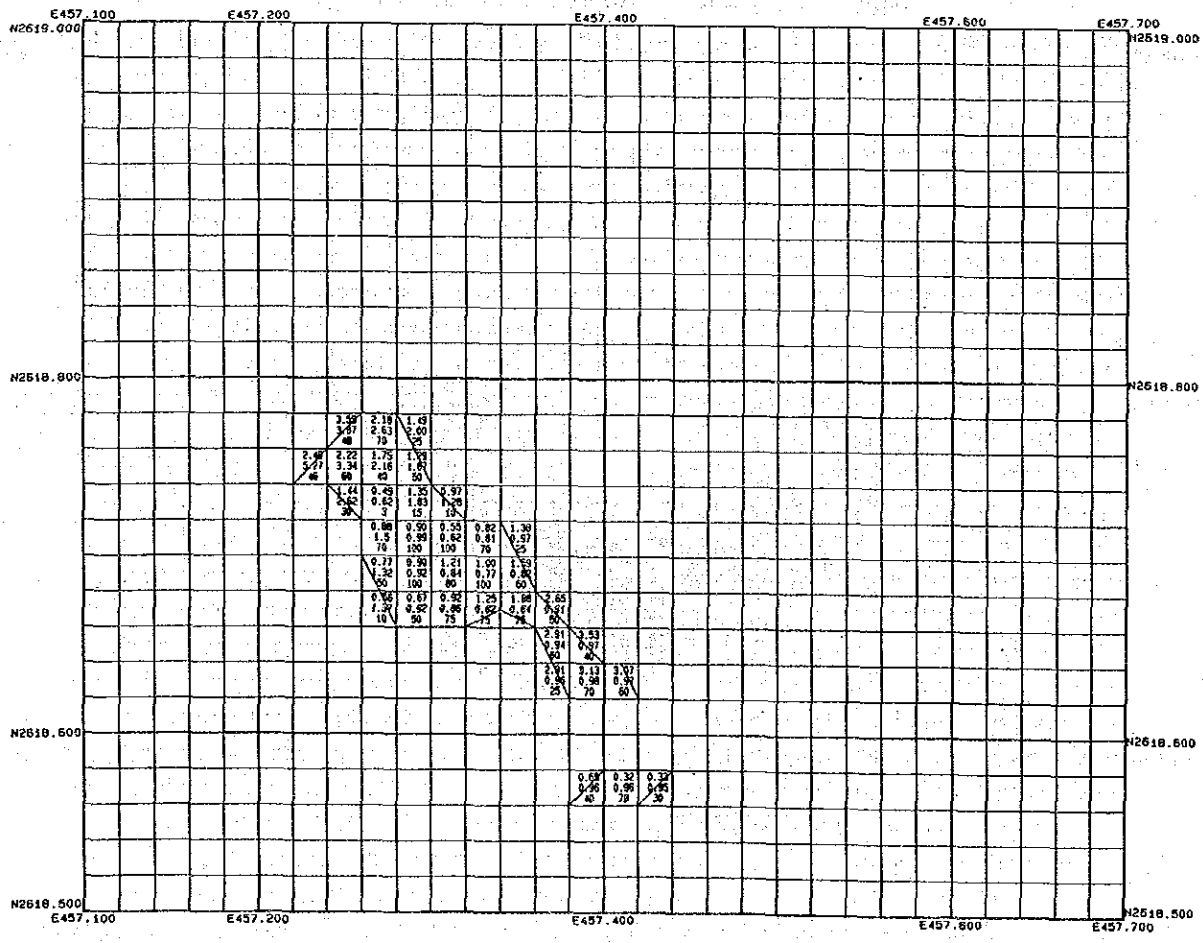
Appendix 19

Distribution map of the ore blocks for each level in the Rakah deposit

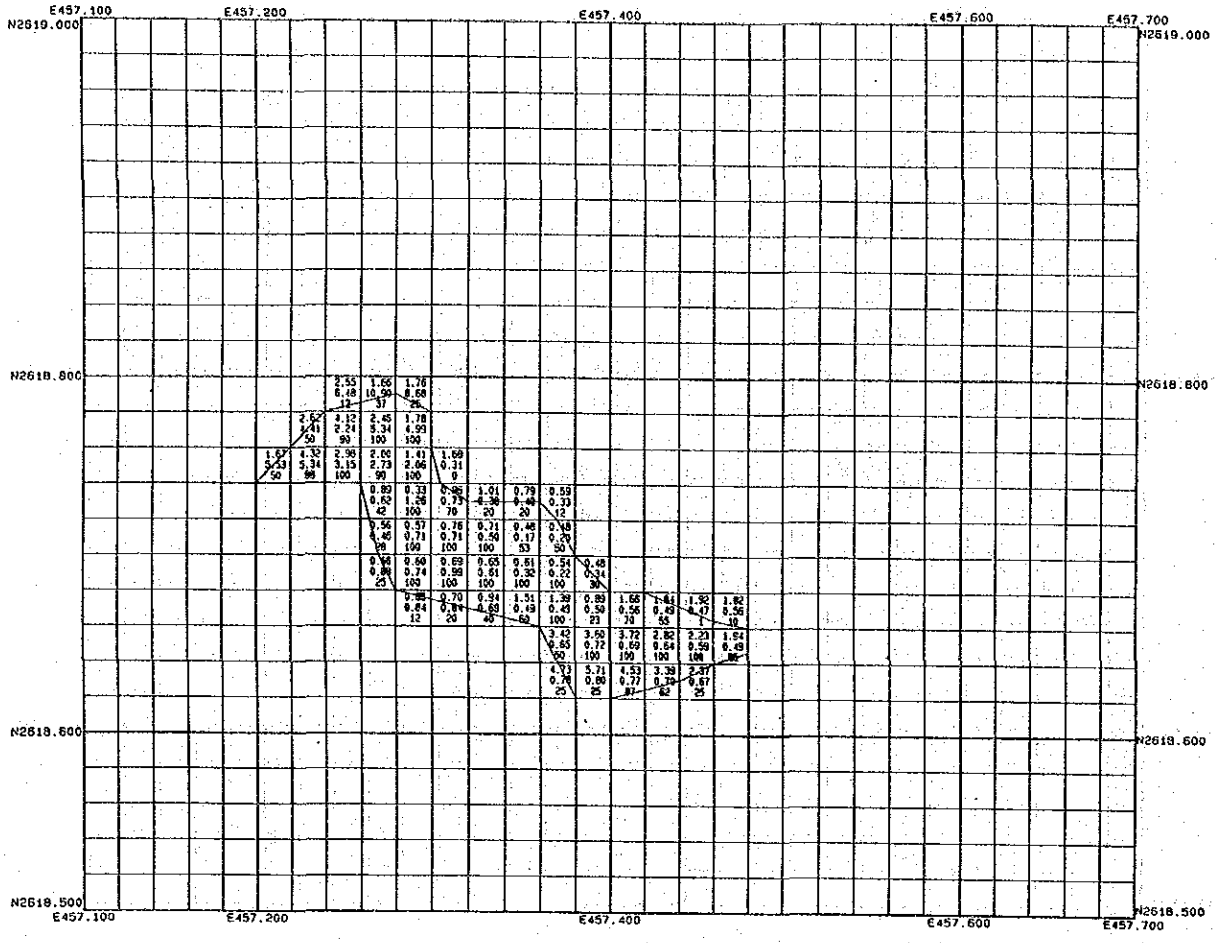
Rakah : Cu and Au (660 m) Cut-off 0.20



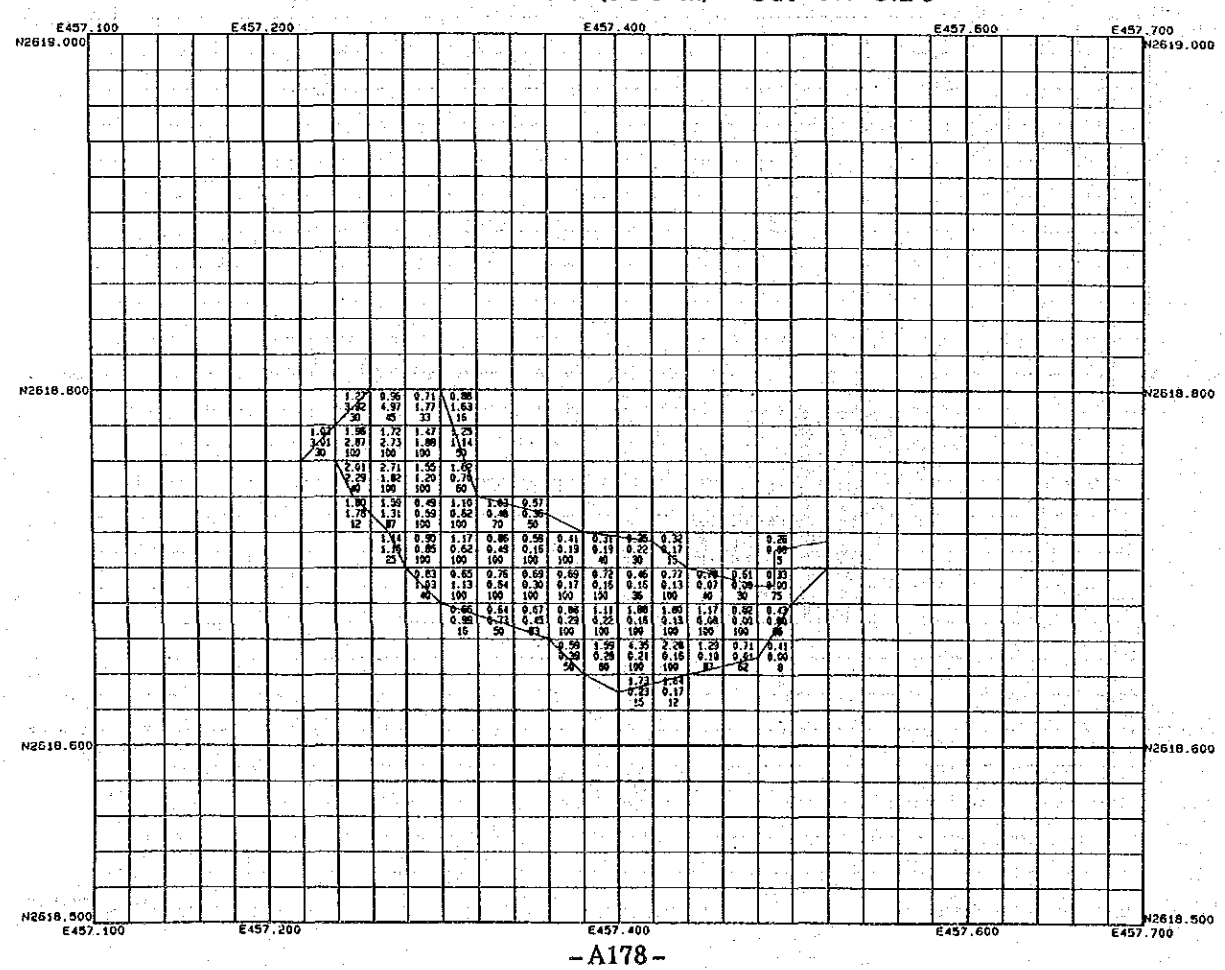
Rakah : Cu and Au (650 m) Cut-off 0.20



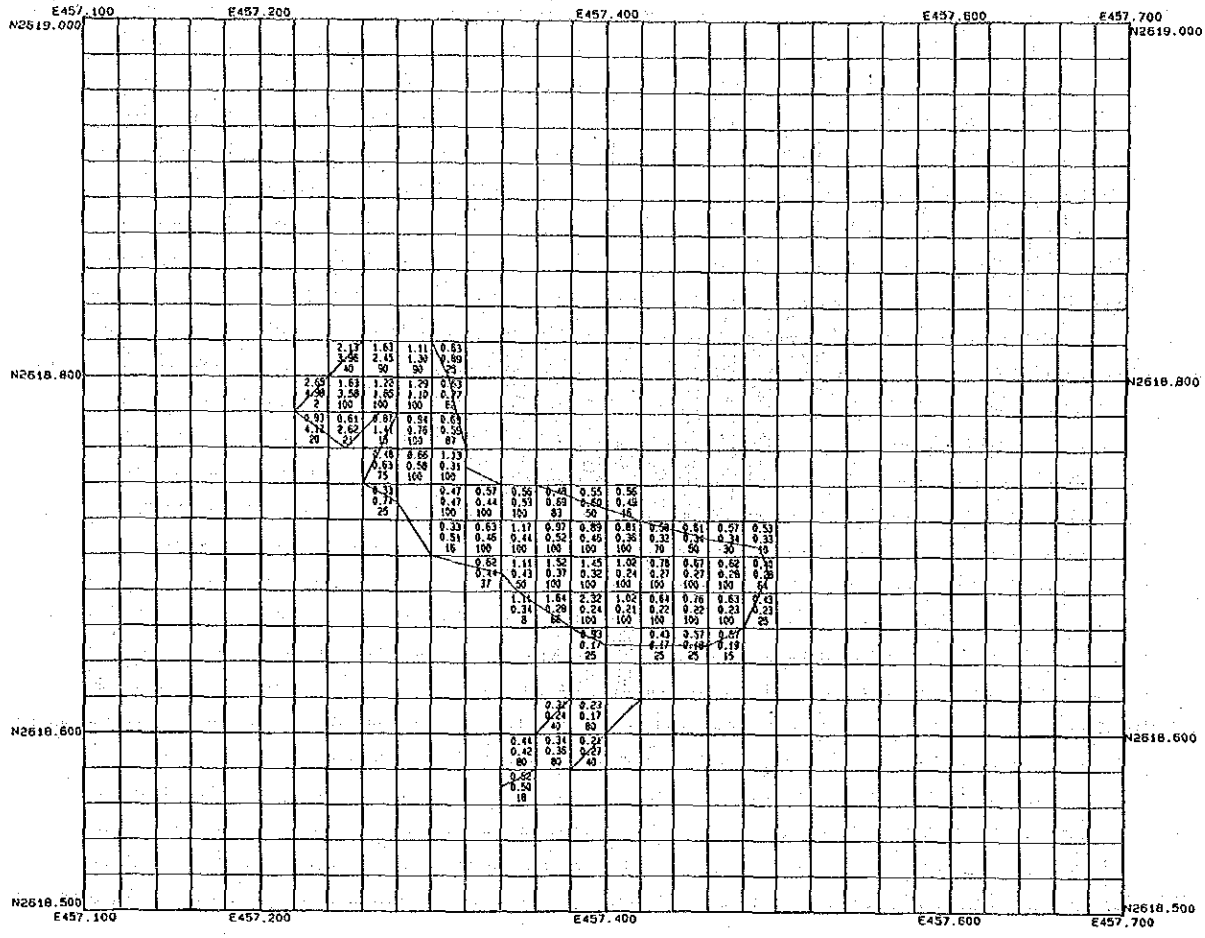
Rakah : Cu and Au (640 m) Cut-off 0.20



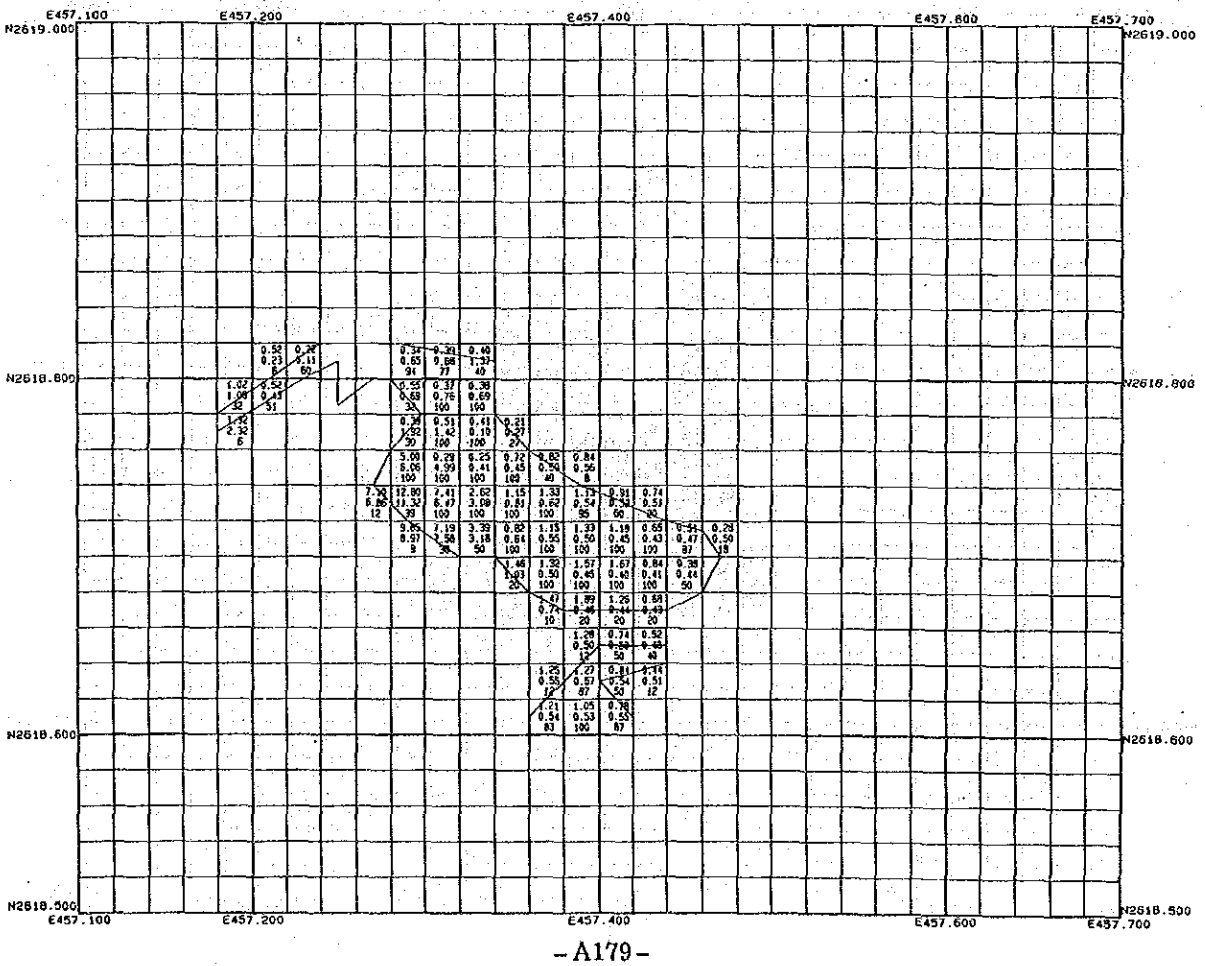
Rakah : Cu and Au (630 m) Cut-off 0.20



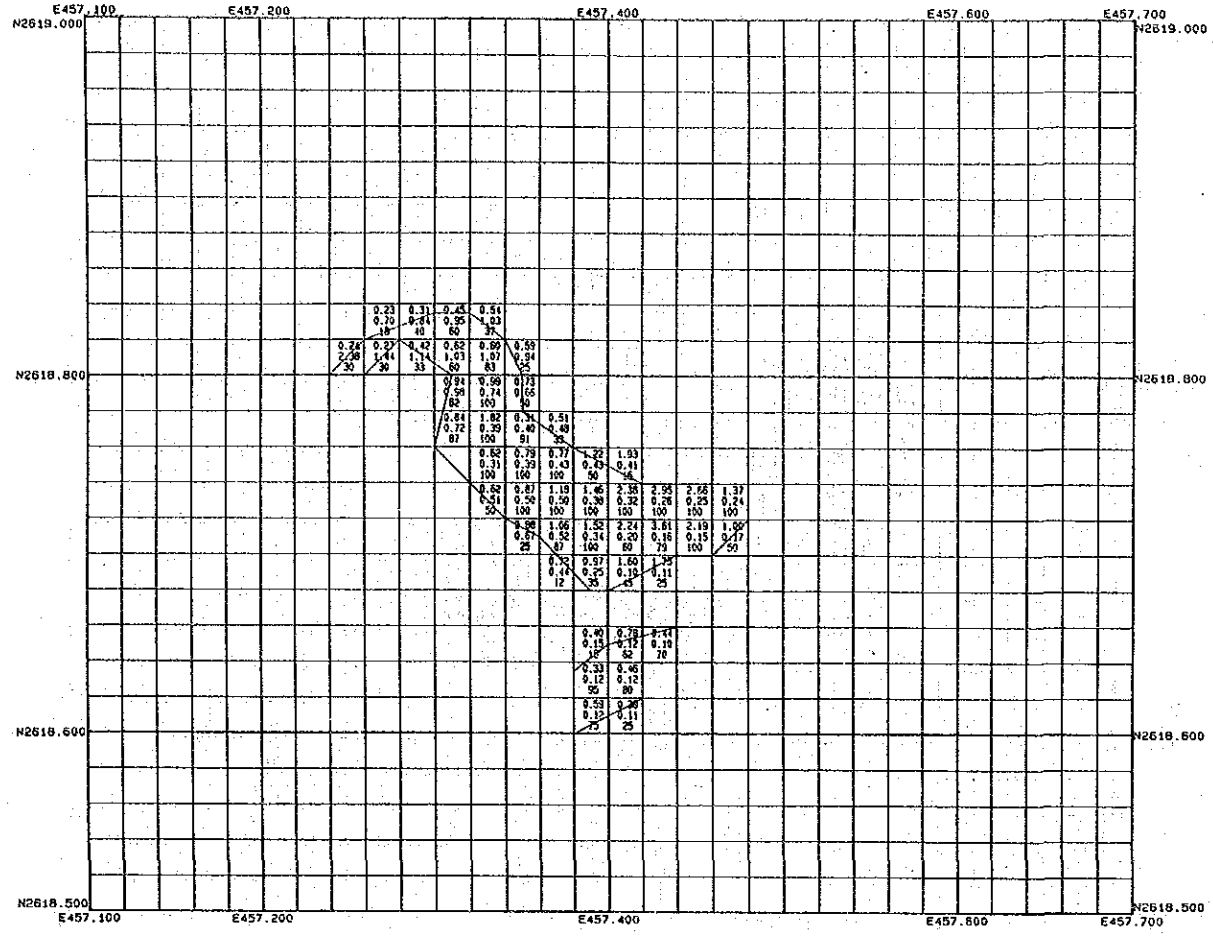
Rakah : Cu and Au (620 m) Cut-off 0.20



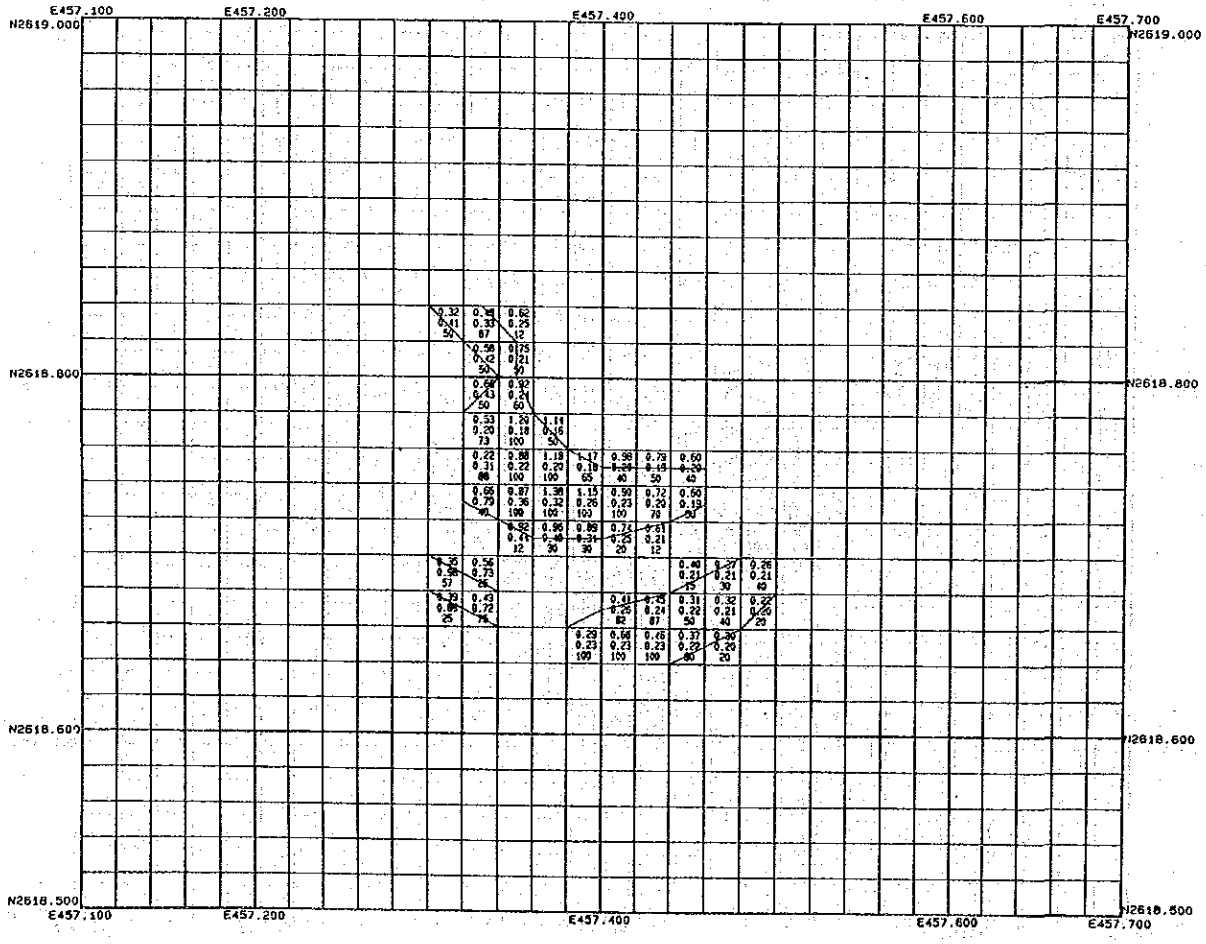
Rakah : Cu and Au (610 m) Cut-off 0.20



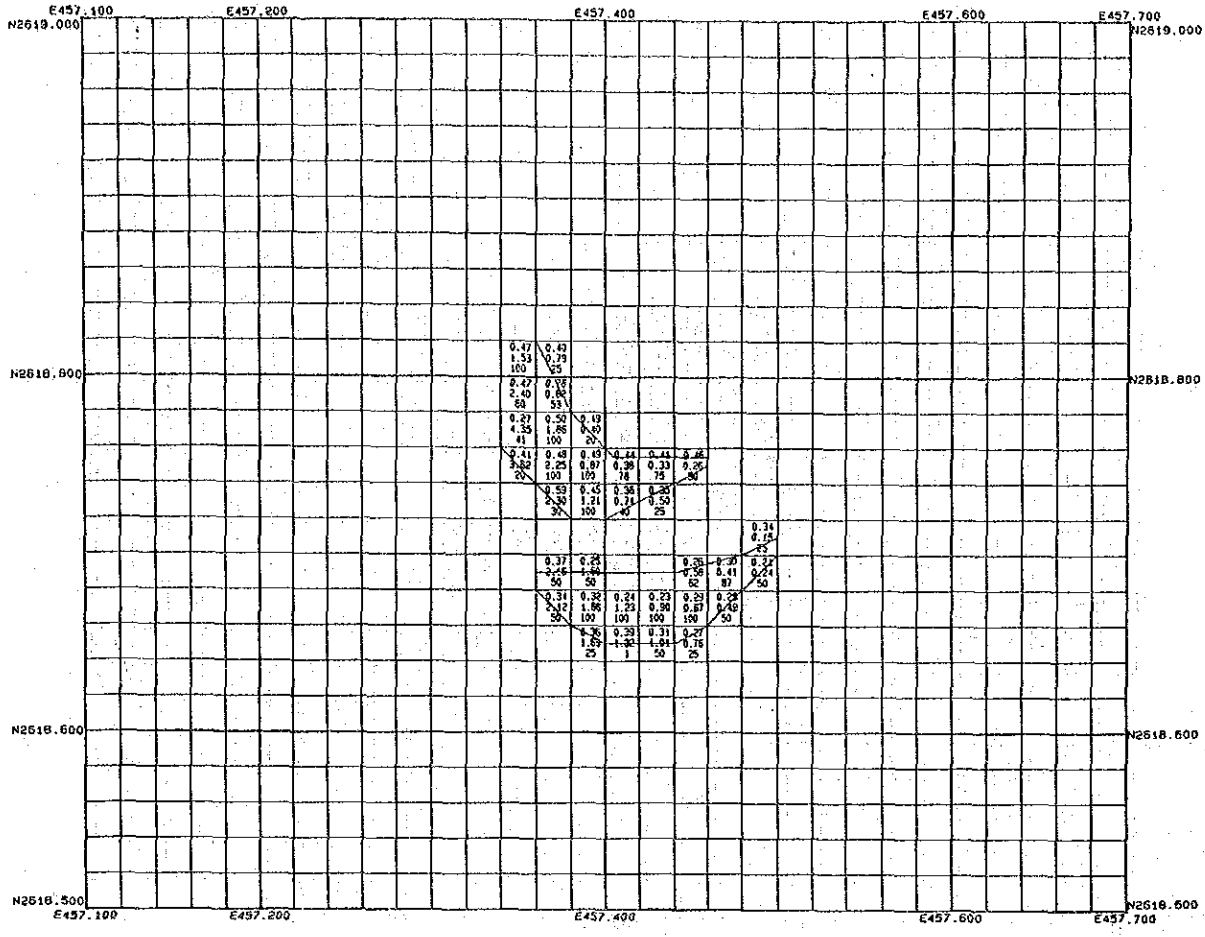
Rakah : Cu and Au (600 m) Cut-off 0.20



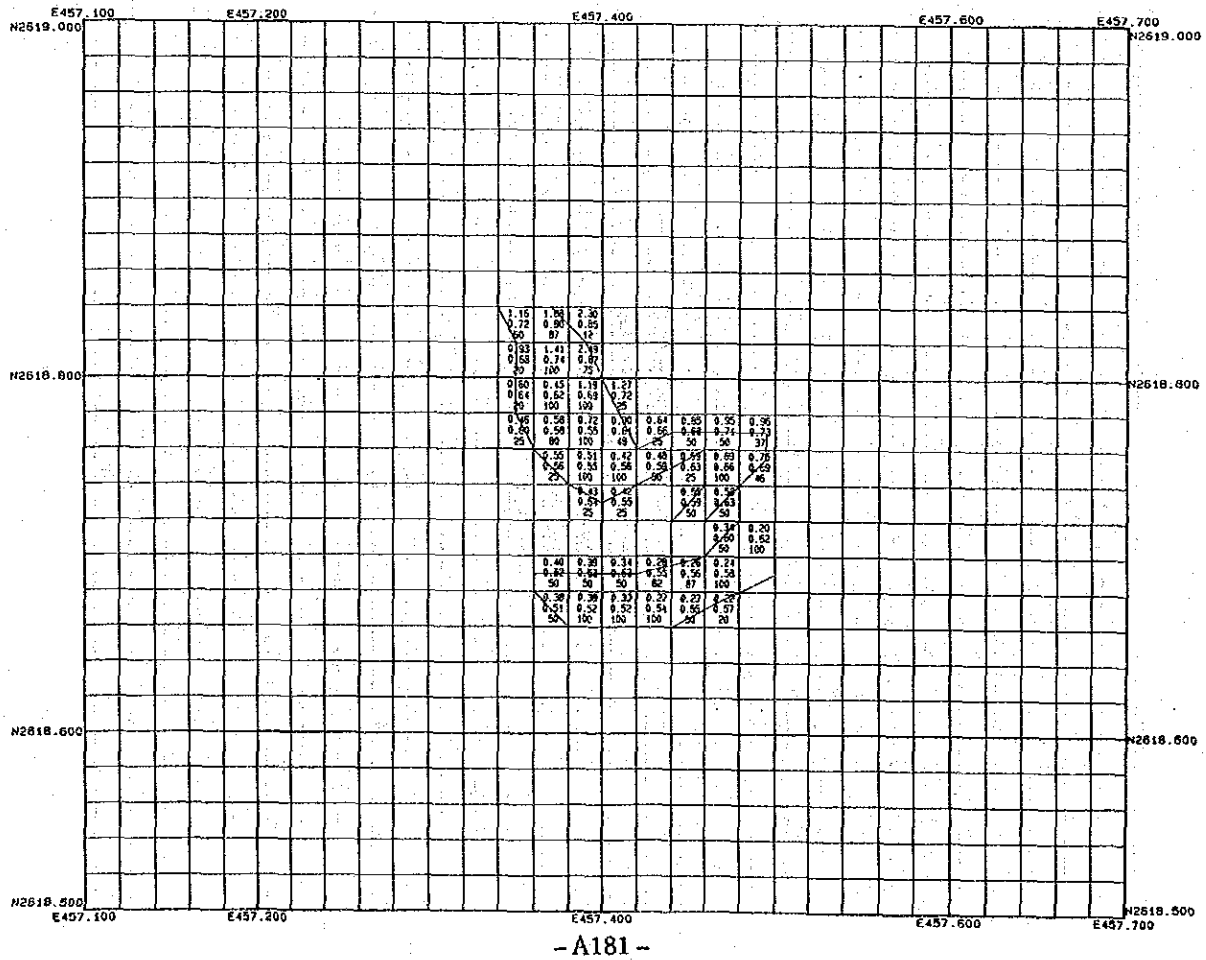
Rakah : Cu and Au (590 m) Cut-off 0.20



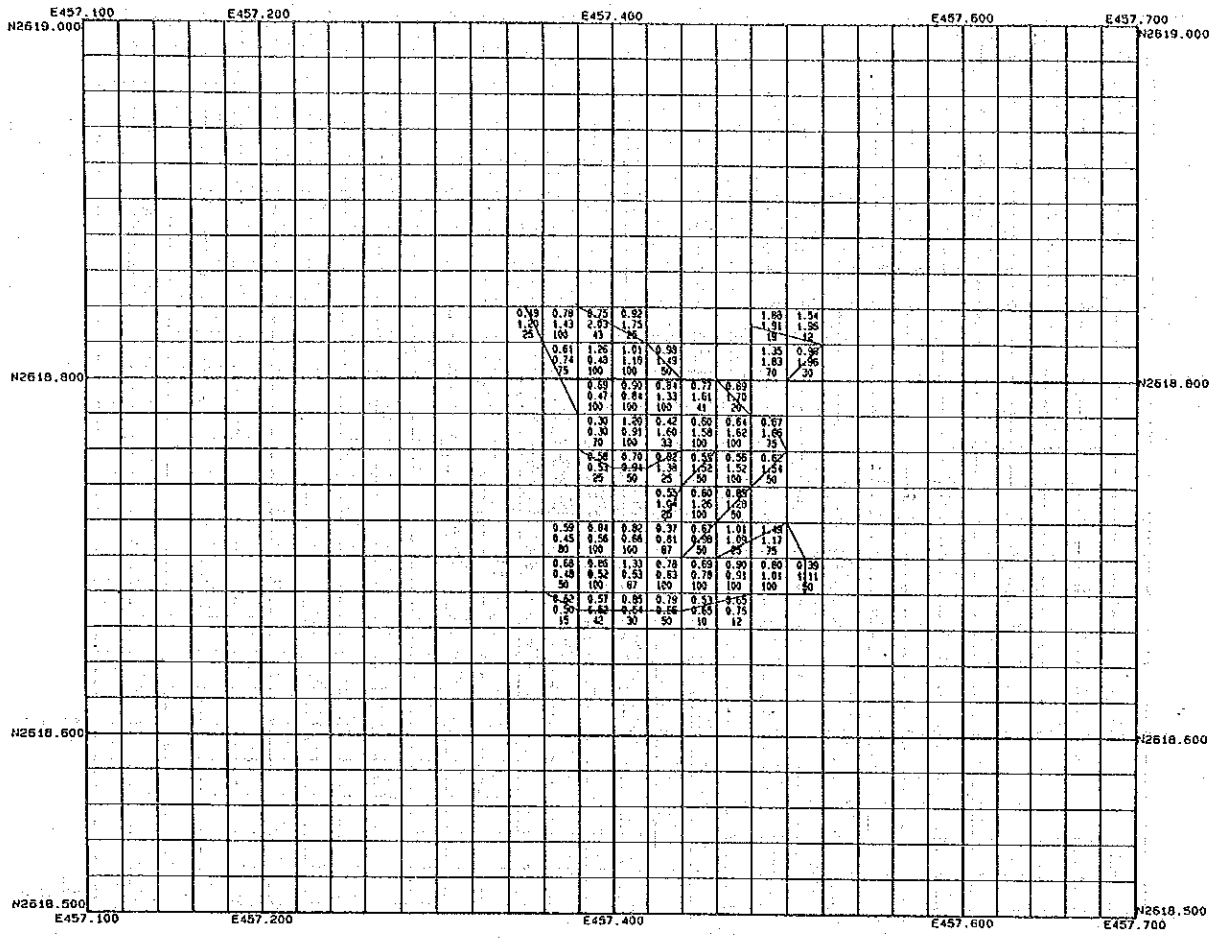
Rakah : Cu and Au (580 m) Cut-off 0.20



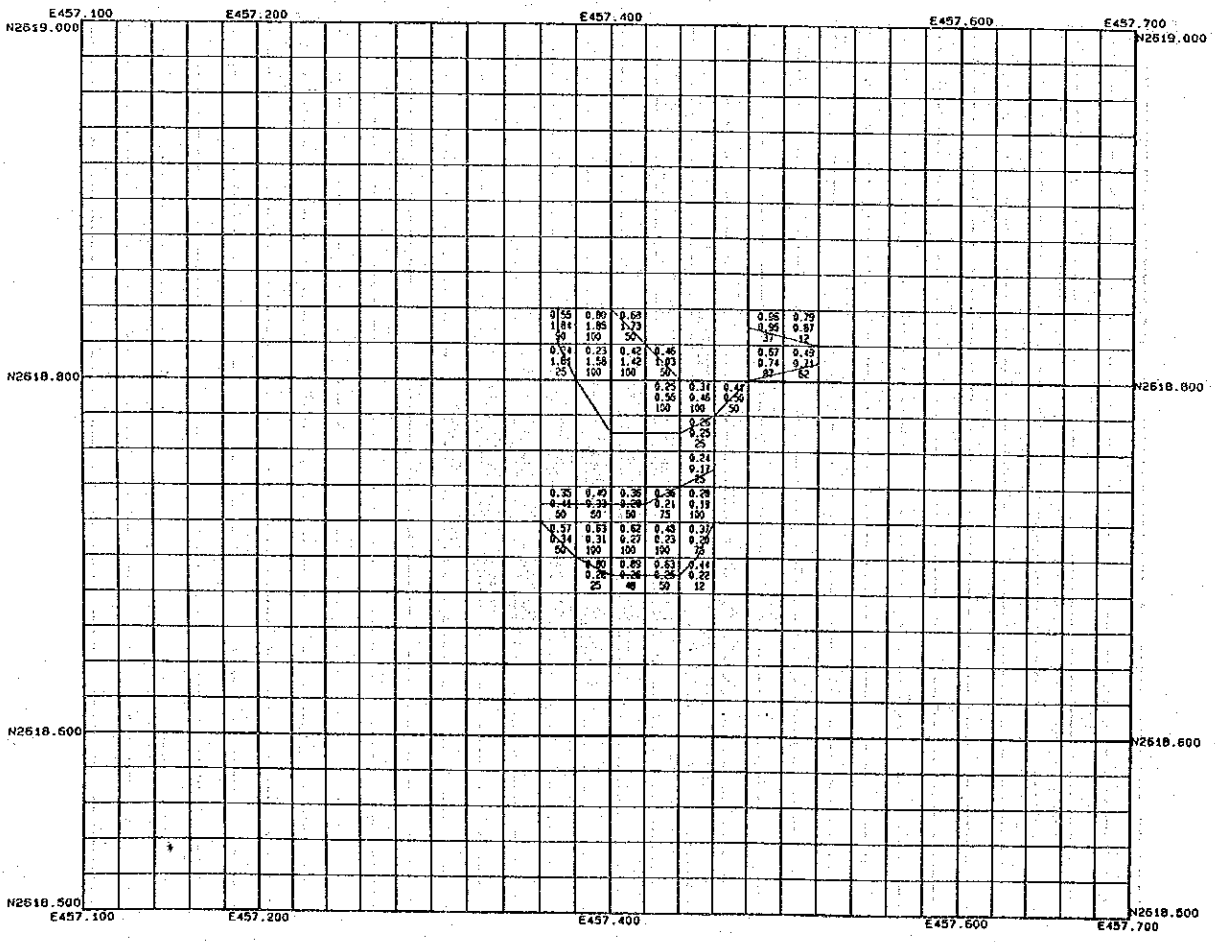
Rakah : Cu and Au (570 m) Cut-off 0.20



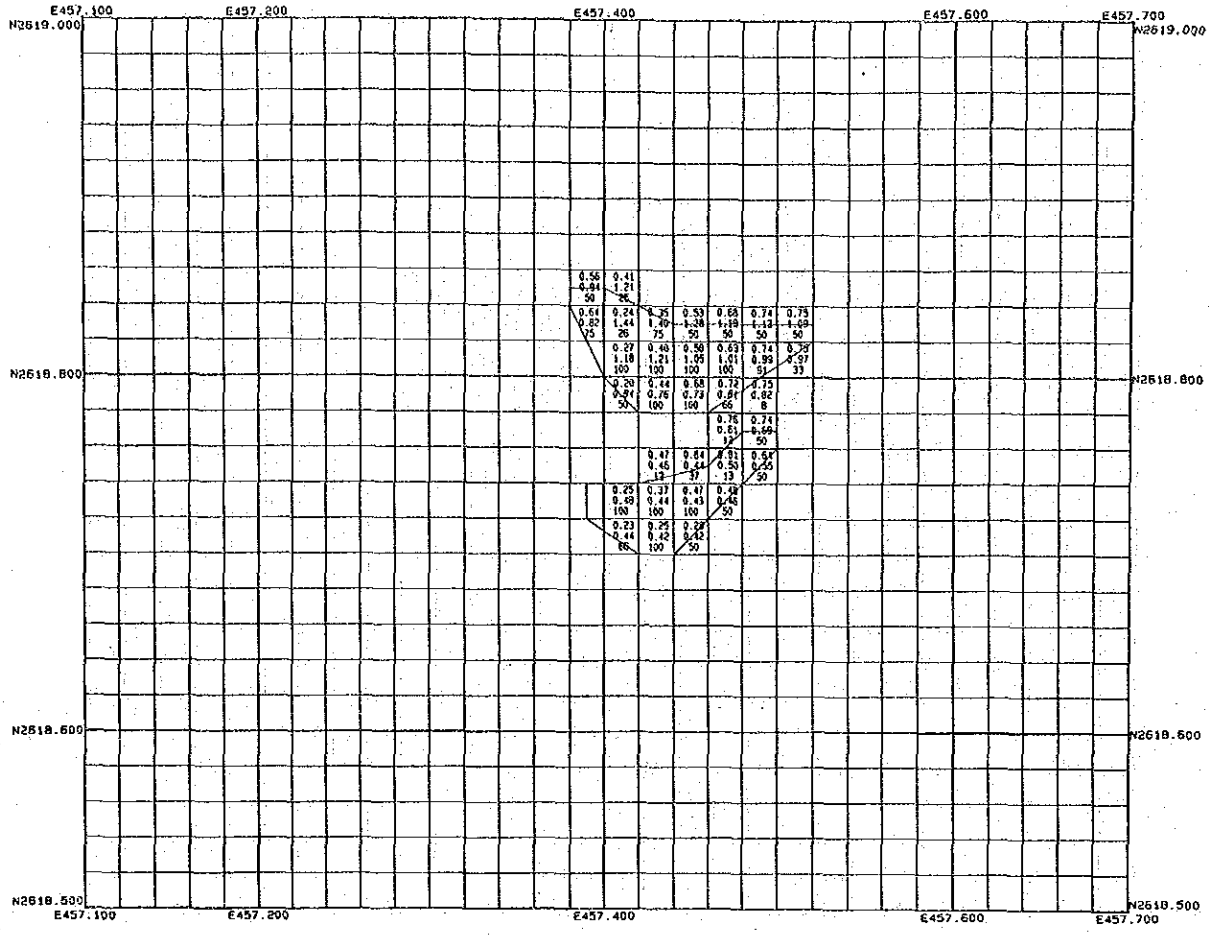
Rakah : Cu and Au (560 m) Cut-off 0.20



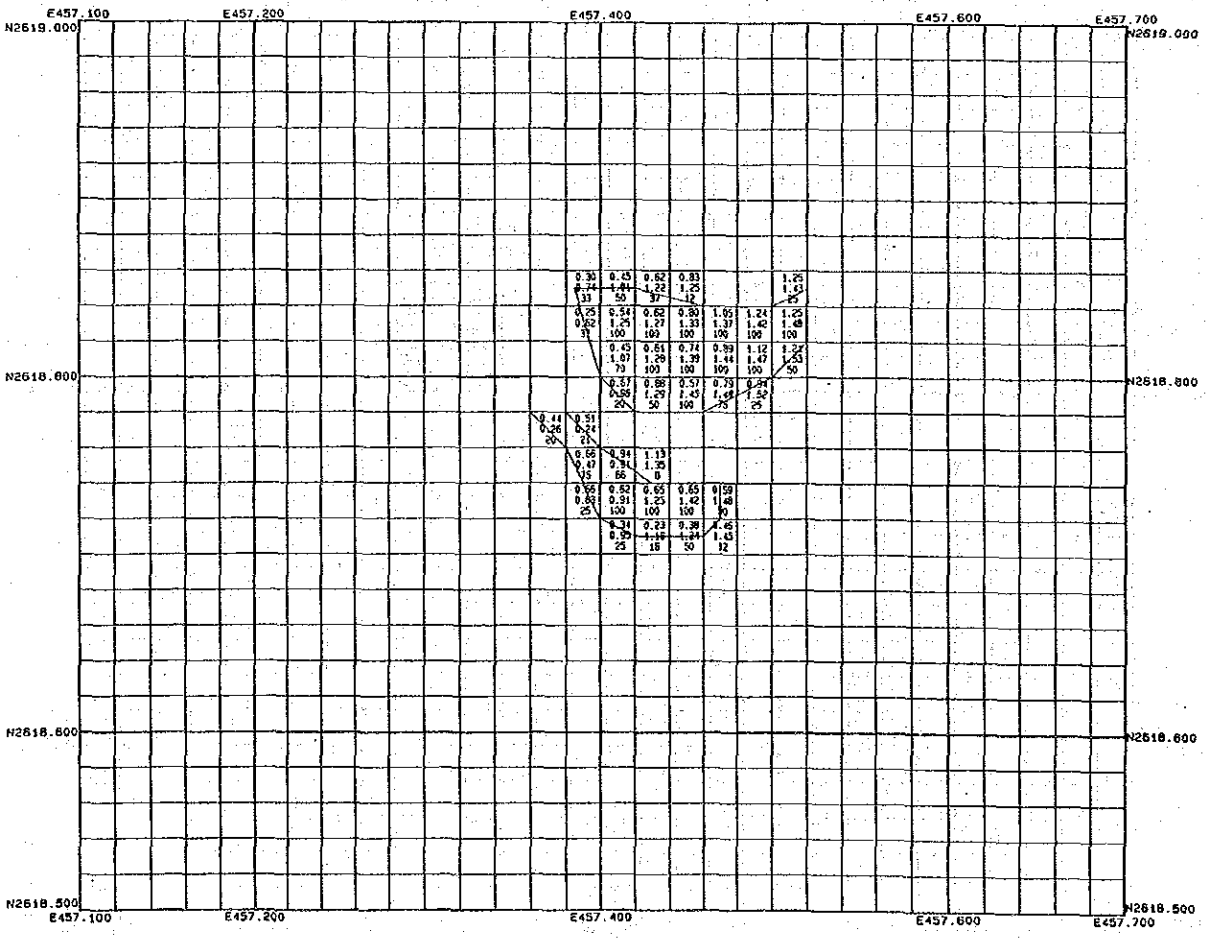
Rakah : Cu and Au (550 m) Cut-off 0.20



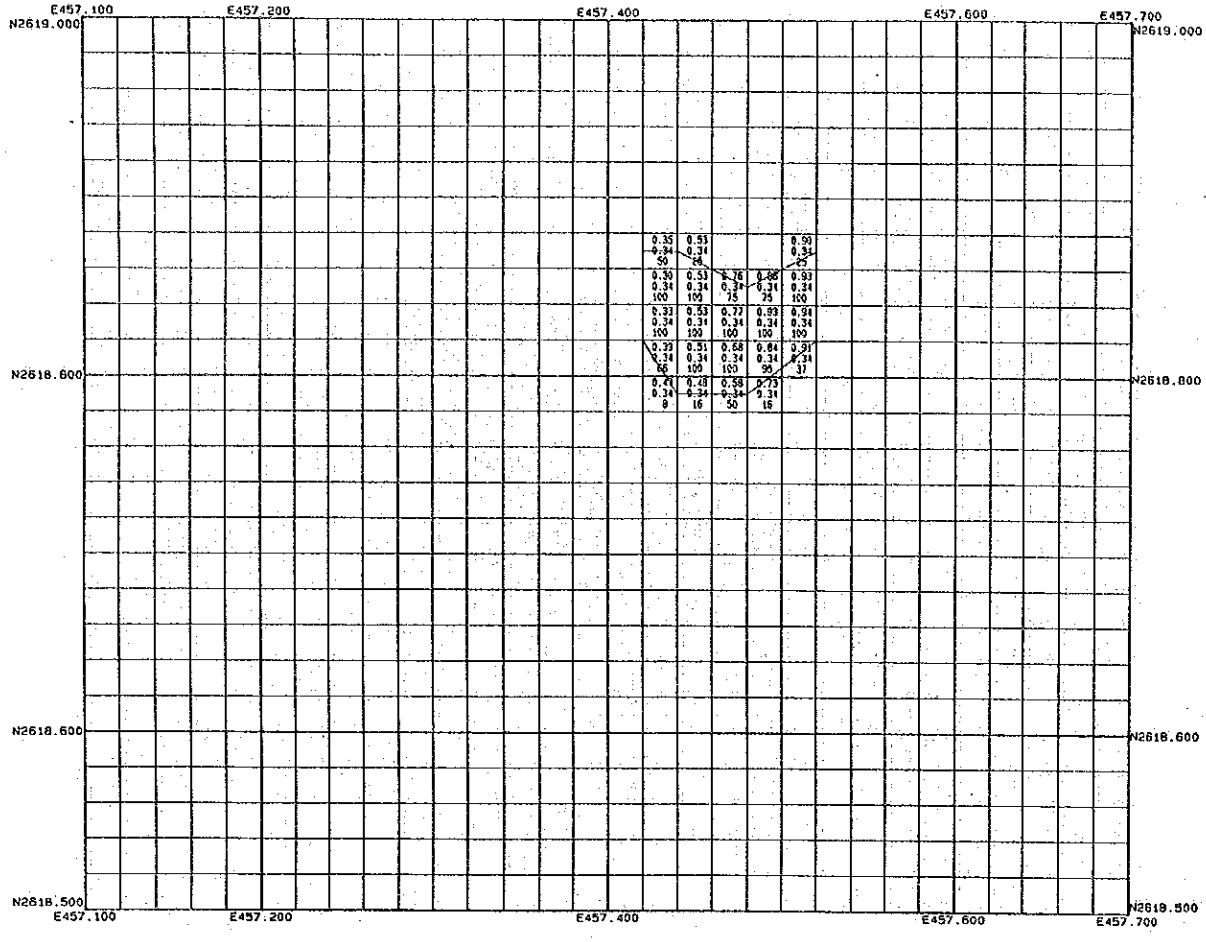
Rakah : Cu and Au (540 m) Cut-off 0.20



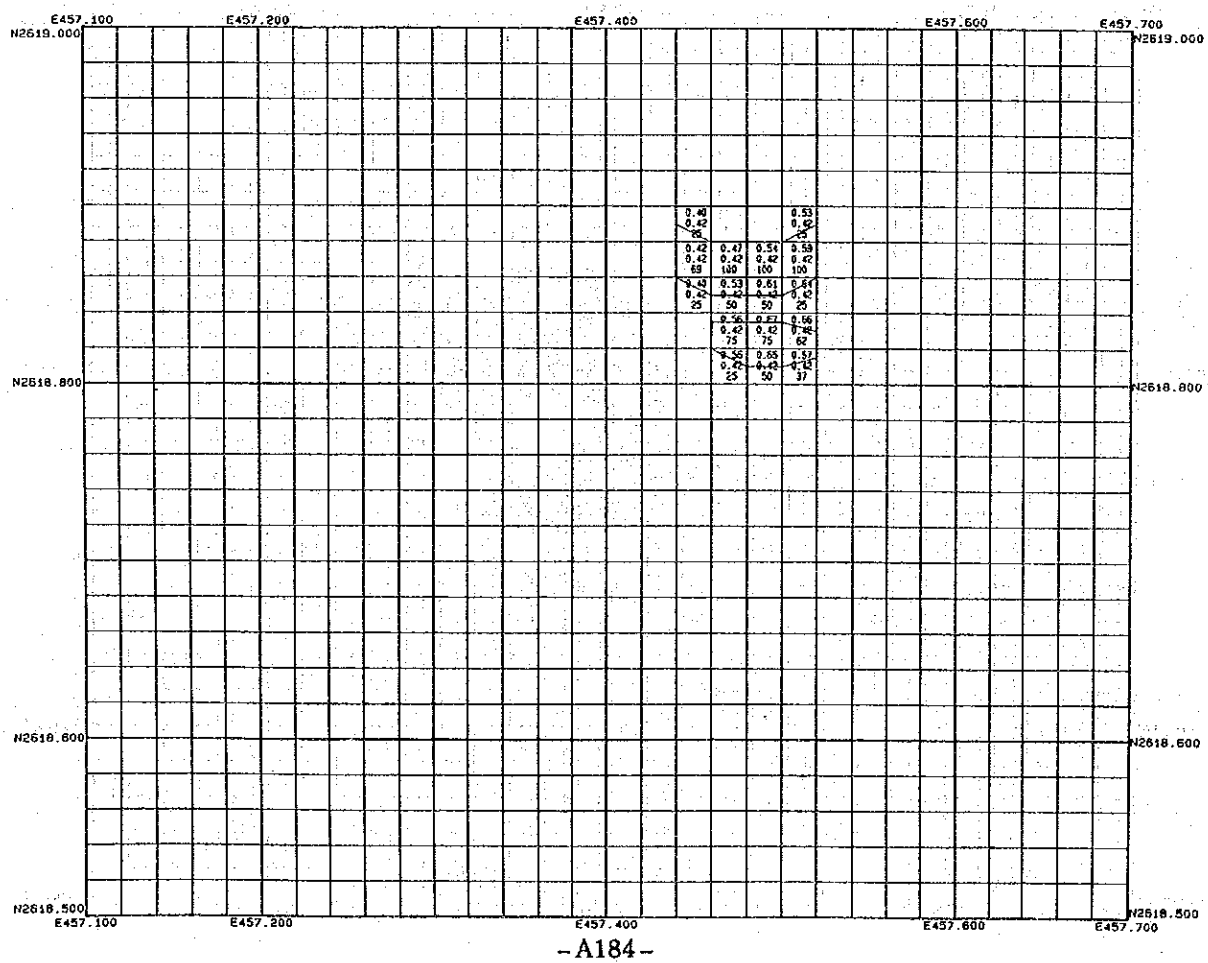
Rakah : Cu and Au (530 m) Cut-off 0.20



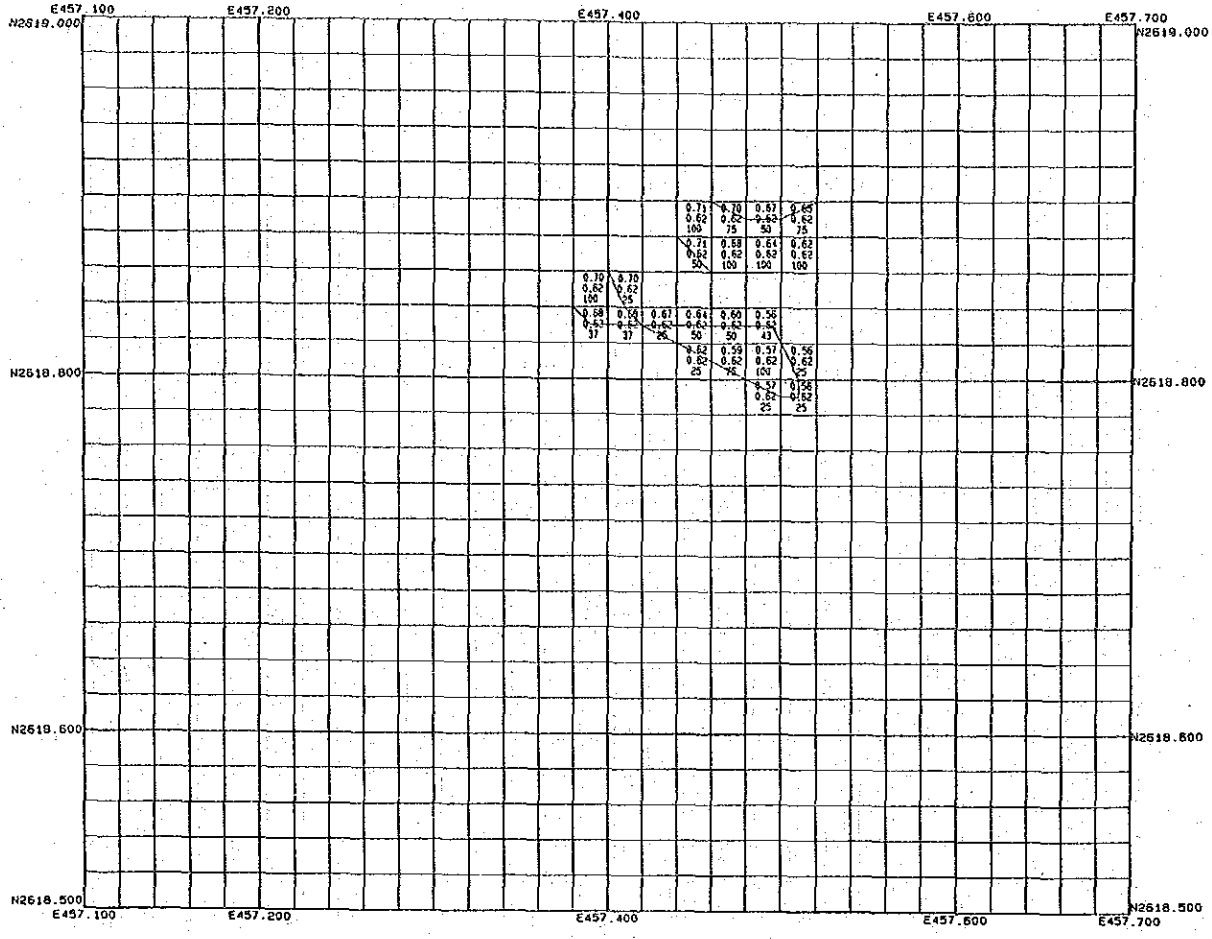
Rakah : Cu and Au (520 m) Cut-off 0.20



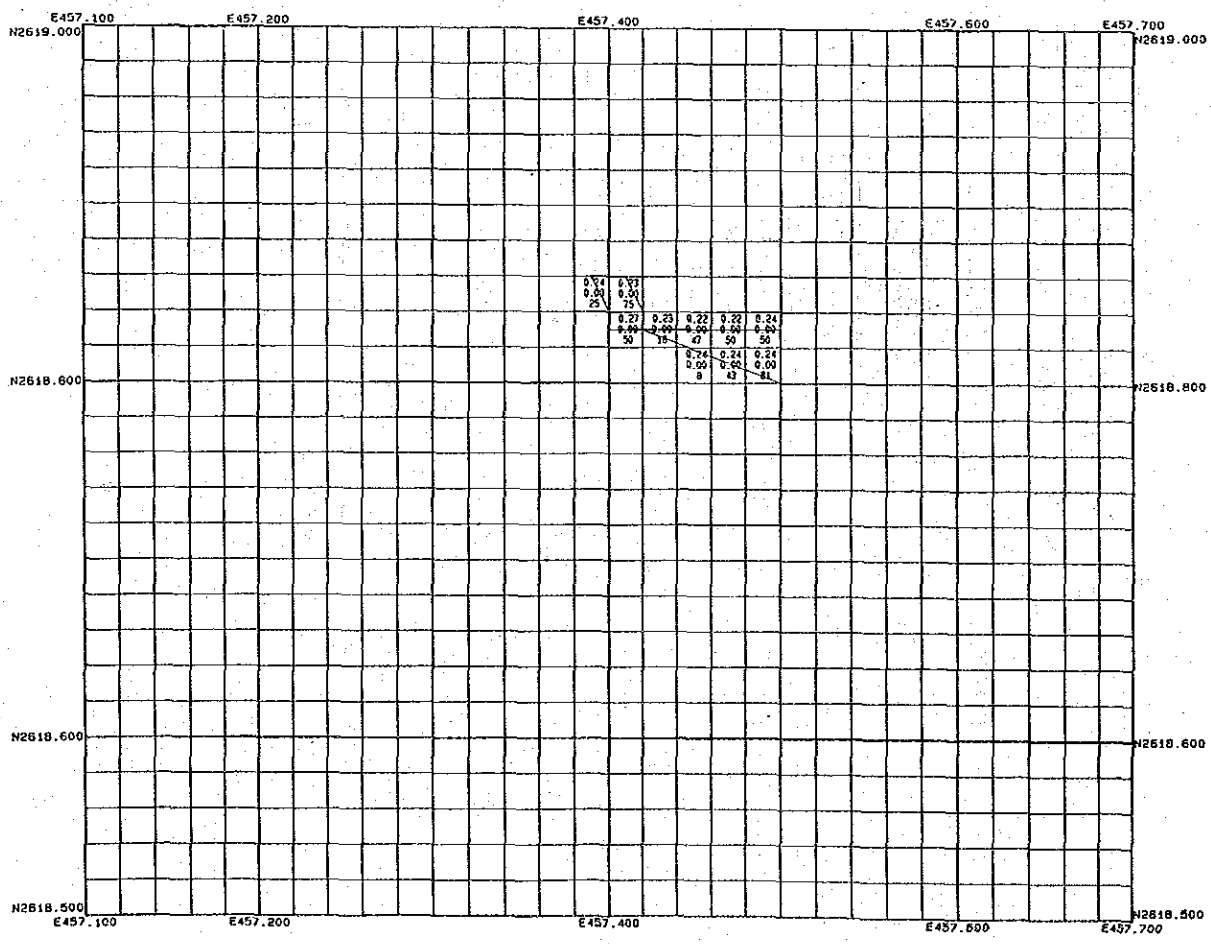
Rakah : Cu and Au (510 m) Cut-off 0.20



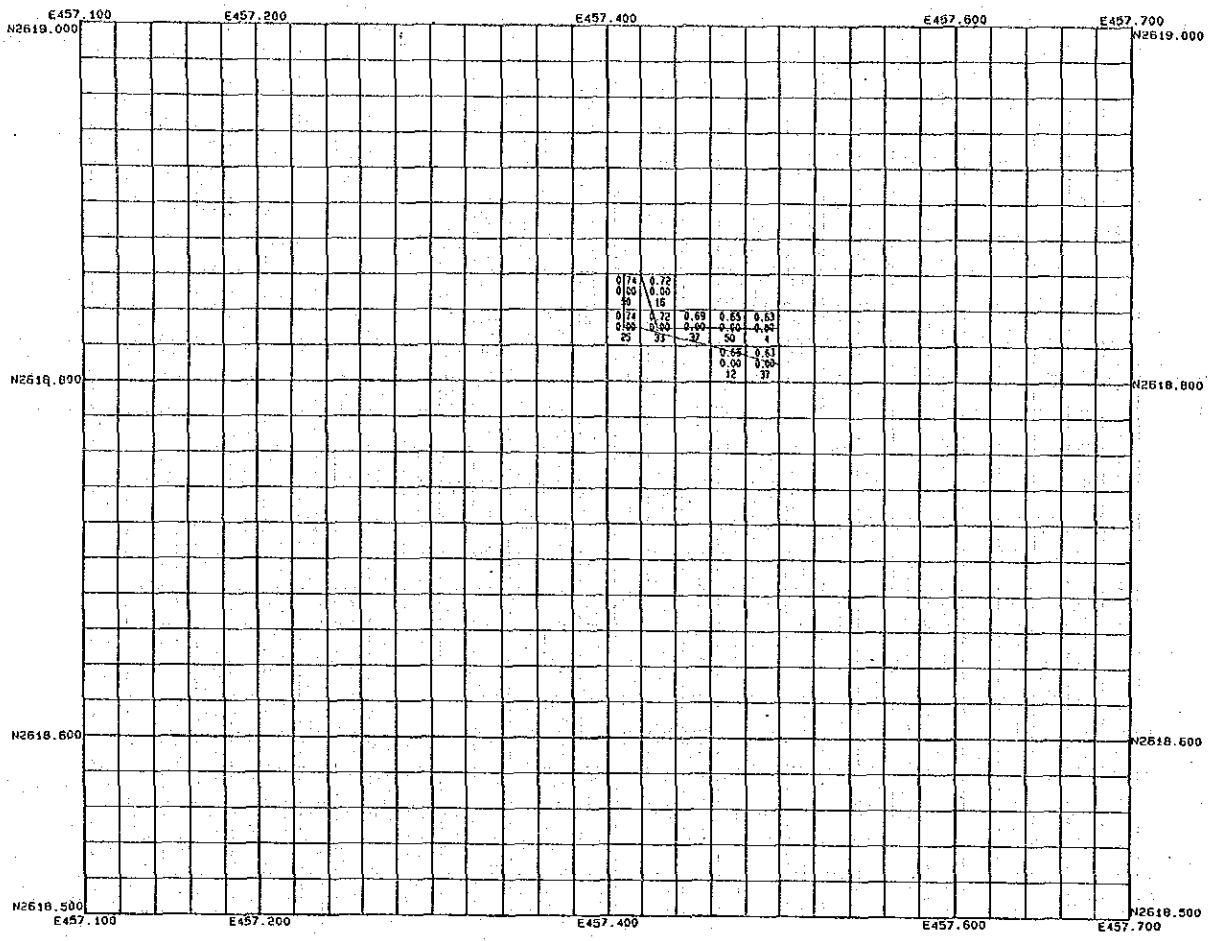
Rakah : Cu and Au (500 m) Cut-off 0.20



Rakah : Cu and Au (490 m) Cut-off 0.20



Rakah : Cu and Au (480 m) Cut-off 0.20



1.15	Cu %
0.19	Au g/t
100	Volume % of ore

Appendix 20

List of ore reserves for each ore block in the Rakah deposit

Geological Ore Reserve
Rakah : 660 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457230	2618730	392	2.83	1110	.55	6.10	.21	2.33	1.81	2.01	2.42	2.69
②	457230	2618750	88	2.84	250	.64	1.60	.22	.55	1.94	.48	2.48	.62
③	457250	2618730	168	2.84	477	.66	3.15	.10	.48	1.46	.70	2.25	1.07
④	457250	2618750	2572	2.87	7379	.86	63.46	.08	5.90	1.69	12.47	2.20	16.23
⑤	457250	2618770	32	2.89	92	.99	.91	.03	.03	1.87	.17	2.03	.19
⑥	457270	2618750	800	2.88	2303	.88	20.26	.03	.69	1.37	3.15	1.97	4.54
⑦	457270	2618770	800	2.88	2303	.92	21.19	.03	.69	1.02	2.35	1.84	4.24
			4852		13914		116.68		10.67		21.34		29.57

Geological Ore Reserve
Rakah : 650 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457230	2618750	1860	3.10	5760	2.48	142.86	.11	6.34	5.27	30.36	16.64	95.85
②	457250	2618730	1200	2.95	3545	1.44	51.05	.07	2.48	2.62	9.29	10.54	37.37
③	457250	2618750	2400	3.06	7342	2.22	162.98	.08	5.87	3.34	24.52	9.93	72.90
④	457250	2618770	1940	3.25	6303	3.59	226.28	.08	5.04	3.87	24.39	6.59	41.54
5	457270	2618670	400	2.84	1136	.56	6.36	.13	1.48	1.37	1.56	6.08	6.91
6	457270	2618690	2000	2.86	5719	.77	44.04	.12	6.86	1.32	7.55	6.00	34.31
7	457270	2618710	2800	2.88	8060	.88	70.93	.08	6.45	1.25	10.07	4.86	39.17
8	457270	2618730	152	2.82	429	.49	2.10	.04	.17	.62	.27	4.95	2.12
⑨	457270	2618750	1600	2.99	4788	1.75	83.79	.05	2.39	2.16	10.34	5.84	27.96
⑩	457270	2618770	2800	3.06	8565	2.18	186.72	.06	5.14	2.63	22.53	7.23	61.93
11	457290	2618670	2000	2.85	5700	.67	38.19	.19	10.83	.92	5.24	4.47	25.48
12	457290	2618690	4000	2.88	11514	.90	103.63	.22	25.33	.92	10.59	3.52	40.53
13	457290	2618710	4000	2.88	11514	.90	103.63	.12	13.82	.99	11.40	2.62	30.17
14	457290	2618730	628	2.94	1849	1.35	24.97	.02	.37	1.83	3.38	2.18	4.03
⑮	457290	2618750	2000	2.94	5871	1.29	75.74	.03	1.76	1.67	9.80	4.12	24.19
⑯	457290	2618770	1000	2.96	2964	1.49	44.16	.05	1.48	2.00	5.93	6.85	20.30
17	457310	2618670	3000	2.89	8664	.92	79.71	.27	23.39	.86	7.45	3.11	26.95
18	457310	2618690	3204	2.93	9375	1.21	113.44	.40	37.50	.84	7.87	2.44	22.87
19	457310	2618710	4000	2.83	11324	.55	62.28	.02	2.26	.62	7.02	2.06	23.33
20	457310	2618730	400	2.89	1155	.97	11.21	.02	.23	1.28	1.48	2.62	3.03
21	457330	2618670	3000	2.94	8807	1.25	110.08	.31	27.30	.82	7.22	2.49	21.93
22	457330	2618690	4000	2.90	11590	1.00	115.90	.25	28.97	.77	8.92	2.30	26.66
23	457330	2618710	2800	2.87	8033	.82	65.87	.10	8.03	.81	6.51	2.30	18.48
24	457350	2618670	3000	3.01	9035	1.88	169.85	.23	20.78	.84	7.59	2.25	20.33
25	457350	2618690	2400	2.97	7136	1.59	113.47	.19	13.56	.82	5.85	2.27	16.20
26	457350	2618710	1000	2.94	2945	1.38	40.64	.13	3.83	.97	2.86	2.53	7.45
27	457370	2618630	1000	3.15	3154	2.91	91.78	.15	4.73	.96	3.03	2.48	7.82
28	457370	2618650	2400	3.15	7570	2.91	220.28	.17	12.87	.94	7.12	2.34	17.71
29	457370	2618670	2000	3.13	6251	2.65	165.65	.18	11.25	.91	5.69	2.24	14.00
30	457390	2618570	1600	2.84	4545	.65	29.54	.06	2.73	.96	4.36	2.46	11.18
31	457390	2618630	2800	3.18	8911	3.13	278.91	.13	11.58	.98	8.73	2.45	21.83
32	457390	2618650	1600	3.24	5183	3.53	182.97	.15	7.77	.97	5.03	2.38	12.34
33	457410	2618570	3128	2.80	8758	.32	28.03	.05	4.38	.96	8.41	2.29	20.06
34	457410	2618630	2400	3.17	7615	3.07	233.79	.13	9.90	.97	7.39	2.45	18.66
35	457430	2618570	1200	2.80	3360	.33	11.09	.05	1.68	.95	3.19	2.33	7.83
			75712		224471		3491.90		328.58		302.95		883.41

Geological Ore Reserve
Rakah : 640 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457210	2618750	2000	2.97	5947	1.67	99.31	.19	11.30	5.53	32.89	9.81	58.34
②	457230	2618750	3920	3.32	12997	4.32	561.46	.06	7.80	5.34	69.40	7.94	103.19
③	457230	2618770	2000	3.11	6213	2.62	162.78	.16	9.94	4.41	27.40	7.03	43.68
④	457250	2618750	4000	3.15	12616	2.98	375.96	.05	6.31	3.15	39.74	6.63	83.64
⑤	457250	2618770	3616	3.33	12023	4.12	495.36	.04	4.81	2.24	26.93	4.11	49.42
⑥	457250	2618790	500	3.11	1553	2.55	39.61	.12	1.86	6.48	10.07	10.10	15.69
7	457270	2618690	1000	2.84	2841	.66	18.75	.28	7.95	.83	2.36	6.05	17.19
8	457270	2618710	1136	2.83	3216	.56	18.01	.13	4.18	.46	1.48	6.25	20.10
9	457270	2618730	1688	2.88	4859	.89	43.24	.06	2.92	.62	3.01	6.44	31.29
⑩	457270	2618750	3600	3.03	10910	2.00	218.20	.03	3.27	2.73	29.78	7.06	77.02
⑪	457270	2618770	4000	3.10	12388	2.46	304.74	.07	8.67	5.34	66.15	10.46	129.58
⑫	457270	2618790	1500	2.98	4475	1.66	74.28	.12	5.37	10.90	48.77	16.37	73.25
13	457290	2618670	500	2.84	1420	.65	9.23	.55	7.81	.84	1.19	4.45	6.32
14	457290	2618690	4000	2.84	11362	.60	68.17	.47	53.40	.74	8.41	4.45	50.56
15	457290	2618710	4000	2.83	11324	.57	64.55	.28	31.71	.71	8.04	4.94	55.94
16	457290	2618730	4000	2.80	11210	.33	36.99	.03	3.36	1.26	14.12	6.50	72.87
⑰	457290	2618750	4000	2.95	11818	1.41	166.63	.06	7.09	2.06	24.35	8.80	104.00
⑱	457290	2618770	4000	3.00	12008	1.78	213.74	.09	10.81	4.99	59.92	13.56	162.83
⑲	457290	2618790	1000	3.00	3002	1.76	52.84	.11	3.30	8.68	26.06	15.86	47.61
20	457310	2618670	800	2.85	2280	.70	15.96	.61	13.91	.84	1.92	3.26	7.43
21	457310	2618690	4000	2.85	11400	.69	78.66	.72	82.08	.99	11.29	3.09	35.23
22	457310	2618710	4000	2.86	11438	.76	86.93	.40	45.75	.71	8.12	3.66	41.86
23	457310	2618730	2800	2.89	8086	.96	77.63	.18	14.56	.73	5.90	5.32	43.02
24	457310	2618750	36	2.99	108	1.68	1.81	.11	.12	.31	.03	7.94	.86
25	457330	2618670	1600	2.89	4621	.94	43.44	.49	22.64	.69	3.19	2.38	11.00
26	457330	2618690	4000	2.84	11362	.65	73.85	.44	49.99	.61	6.93	1.90	21.59
27	457330	2618710	4000	2.85	11400	.71	80.94	.31	35.34	.50	5.70	2.14	24.40
28	457330	2618730	800	2.90	2318	1.01	23.41	.20	4.64	.38	.88	3.40	7.88
29	457350	2618670	2400	2.96	7114	1.51	107.42	.29	20.63	.49	3.49	1.93	13.73
30	457350	2618690	4000	2.84	11362	.61	69.31	.25	28.40	.32	3.64	1.38	15.68
31	457350	2618710	2120	2.82	5982	.48	28.71	.16	9.57	.17	1.02	1.08	6.46
32	457350	2618730	800	2.87	2295	.79	18.13	.17	3.90	.40	.92	2.35	5.39
33	457370	2618630	1000	3.49	3487	4.73	164.91	.21	7.32	.78	2.72	3.37	11.75
34	457370	2618650	2000	3.23	6460	3.42	220.93	.16	10.34	.65	4.20	2.92	18.86
35	457370	2618670	4000	2.94	11760	1.39	163.74	.14	16.49	.49	5.77	2.24	26.39
36	457370	2618690	4000	2.83	11324	.54	61.15	.18	20.38	.22	2.49	1.37	15.51
37	457370	2618710	2000	2.82	5643	.48	27.09	.20	11.29	.20	1.13	1.45	8.18
38	457370	2618730	500	2.84	1420	.59	8.38	.18	2.56	.33	.47	2.09	2.97
39	457390	2618630	1000	3.64	3639	5.71	207.76	.20	7.28	.80	2.91	3.67	13.35
40	457390	2618650	4000	3.26	13034	3.60	469.22	.19	24.76	.72	9.38	3.29	42.88
41	457390	2618670	924	2.88	2660	.89	23.67	.07	1.86	.50	1.33	2.53	6.73
42	457390	2618690	1200	2.82	3386	.48	16.25	.23	7.79	.34	1.15	1.99	6.74
43	457410	2618630	3500	3.38	11837	4.53	536.22	.26	30.78	.77	9.11	3.57	42.26
44	457410	2618650	4000	3.27	13072	3.72	486.28	.35	45.75	.69	9.02	3.33	43.53
45	457410	2618670	2800	2.98	8352	1.66	138.65	.29	24.22	.56	4.68	2.85	23.80
46	457430	2618630	2500	3.22	8051	3.39	272.94	.28	22.54	.70	5.64	3.48	28.02
47	457430	2618650	4000	3.14	12578	2.82	354.70	.32	40.25	.64	8.05	3.25	40.88
48	457430	2618670	2200	3.01	6625	1.84	121.91	.34	22.53	.49	3.25	2.99	19.81
49	457450	2618630	1000	3.09	3087	2.37	73.17	.26	8.03	.67	2.07	3.36	10.37
50	457450	2618650	4000	3.06	12236	2.23	272.86	.29	35.48	.59	7.22	3.22	39.40
51	457450	2618670	56	3.02	169	1.92	3.25	.28	.47	.47	.08	3.07	.52
52	457470	2618650	3400	3.02	10271	1.94	199.27	.28	28.76	.49	5.03	3.14	32.25
53	457470	2618670	400	3.01	1205	1.82	21.92	.28	3.37	.56	.67	3.10	3.73
			130296		392263		7574.31		895.65		639.46		1874.98

Geological Ore Reserve
Rakah : 630 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457230	2618770	1200	2.90	3477	1.03	35.81	.16	5.56	3.01	10.47	4.51	15.68
2	457250	2618730	500	3.00	1501	1.80	27.02	.09	1.35	1.78	2.67	3.65	5.48
3	457250	2618750	1600	3.04	4864	2.01	97.77	.11	5.35	2.29	11.14	4.22	20.53
4	457250	2618770	4000	3.03	12122	1.96	237.59	.11	13.33	2.87	34.79	4.38	53.09
⑤	457250	2618790	1200	2.94	3523	1.27	44.74	.24	8.45	3.92	13.81	5.08	17.89
6	457270	2618710	1000	2.92	2916	1.14	33.25	.08	2.33	1.15	3.35	3.01	8.78
7	457270	2618730	3500	2.97	10407	1.59	165.48	.08	8.33	1.31	13.63	3.28	34.14
8	457270	2618750	4000	3.13	12540	2.71	339.83	.08	10.03	1.82	22.82	3.90	48.91
9	457270	2618770	4000	3.00	12008	1.72	206.54	.23	27.62	2.73	32.78	4.90	58.84
⑩	457270	2618790	1800	2.89	5198	.96	49.90	.37	19.23	4.97	25.84	5.81	30.20
11	457290	2618690	1600	2.87	4590	.83	38.10	.10	4.59	1.03	4.73	2.46	11.29
12	457290	2618710	4000	2.88	11514	.90	103.63	.09	10.36	.85	9.79	2.66	30.63
13	457290	2618730	4000	2.82	11286	.49	55.30	.08	9.03	.59	6.66	2.80	31.60
14	457290	2618750	4000	2.97	11894	1.55	184.36	.15	17.84	1.20	14.27	3.69	43.89
15	457290	2618770	4000	2.96	11856	1.47	174.28	.29	34.38	1.88	22.29	4.98	59.04
16	457290	2618790	1348	2.86	3855	.71	27.37	.48	18.50	1.77	6.82	5.60	21.59
17	457310	2618670	668	2.85	1904	.66	12.57	.11	2.09	.99	1.88	2.00	3.81
18	457310	2618690	4000	2.85	11400	.65	74.10	.10	11.40	1.13	12.88	2.10	23.94
19	457310	2618710	4000	2.92	11666	1.17	136.49	.12	14.00	.62	7.23	2.28	26.60
20	457310	2618730	4000	2.91	11628	1.10	127.91	.12	13.95	.62	7.21	2.73	31.74
21	457310	2618750	2400	2.98	7159	1.62	115.98	.15	10.74	.70	5.01	3.38	24.20
22	457310	2618770	2000	2.94	5871	1.25	73.39	.29	17.03	1.14	6.69	4.21	24.72
23	457310	2618790	668	2.88	1923	.88	16.92	.43	8.27	1.63	3.13	5.02	9.65
24	457330	2618670	2000	2.85	5700	.64	36.48	.13	7.41	.73	4.16	1.70	9.69
25	457330	2618690	4000	2.86	11438	.76	86.93	.14	16.01	.64	7.32	1.69	19.33
26	457330	2618710	4000	2.88	11514	.86	99.02	.14	16.12	.49	5.64	1.81	20.84
27	457330	2618730	2800	2.90	8113	1.03	83.56	.15	12.17	.48	3.89	2.23	18.09
28	457350	2618670	3332	2.85	9496	.67	63.62	.16	15.19	.45	4.27	1.49	14.15
29	457350	2618690	4000	2.85	11400	.69	78.66	.16	18.24	.30	3.42	1.43	16.30
30	457350	2618710	4000	2.84	11362	.59	67.04	.18	20.45	.16	1.82	1.37	15.57
31	457350	2618730	2000	2.83	5662	.57	32.27	.16	9.06	.36	2.04	1.80	10.19
32	457370	2618650	2000	2.83	5662	.59	33.41	.17	9.63	.39	2.21	1.37	7.76
33	457370	2618670	4000	2.87	11476	.88	100.99	.17	19.51	.29	3.33	1.35	15.49
34	457370	2618690	4000	2.86	11438	.69	78.92	.16	18.30	.17	1.94	1.35	15.44
35	457370	2618710	4000	2.81	11248	.41	46.12	.15	16.87	.19	2.14	1.46	16.42
36	457390	2618650	2400	2.88	6908	1.59	109.84	.16	11.05	.28	1.93	1.27	8.77
37	457390	2618670	4000	2.91	11628	1.11	129.07	.17	19.77	.22	2.56	1.31	15.23
38	457390	2618690	4000	2.85	11400	.72	82.08	.12	13.68	.16	1.82	1.38	15.73
39	457390	2618710	1600	2.80	4484	.31	13.90	.11	4.93	.19	.85	1.48	6.64
40	457410	2618630	600	2.86	1716	1.73	29.68	.14	2.40	.23	.39	1.11	1.90
41	457410	2618650	4000	3.02	12084	4.35	525.65	.14	16.92	.21	2.54	1.20	14.50
42	457410	2618670	4000	2.92	11666	1.88	219.32	.13	15.17	.16	1.87	1.27	14.82
43	457410	2618690	1440	2.82	4063	.46	18.69	.05	2.03	.16	.65	1.36	5.53
44	457410	2618710	1200	2.81	3374	.35	11.81	.10	3.37	.22	.74	1.56	5.26
45	457430	2618630	500	2.85	1425	1.64	23.37	.12	1.71	.17	.24	1.04	1.48
46	457430	2618650	4000	2.93	11704	2.28	266.85	.15	17.56	.16	1.87	1.14	13.34
47	457430	2618670	4000	2.92	11666	1.80	209.99	.14	16.33	.13	1.52	1.23	14.35
48	457430	2618690	4000	2.85	11400	.77	87.78	.12	13.68	.13	1.48	1.33	15.16
49	457430	2618710	608	2.80	1704	.32	5.45	.12	2.04	.17	.29	1.48	2.52
50	457450	2618650	3500	2.88	10075	1.29	129.96	.16	16.12	.10	1.01	1.08	10.88
51	457450	2618670	4000	2.92	11666	1.17	136.49	.22	25.67	.08	.93	1.16	13.53
52	457450	2618690	1600	2.86	4575	.78	35.69	.15	6.86	.07	.32	1.25	5.72
53	457470	2618650	2500	2.84	7101	.71	50.42	.15	10.65	.01	.07	.99	7.03
54	457470	2618670	4000	2.87	11476	.82	94.10	.16	18.36	.00	.00	1.05	12.05
55	457470	2618690	1200	2.84	3409	.61	20.79	.13	4.43	.00	.00	1.15	3.92
56	457490	2618650	332	2.80	930	.41	3.81	.11	1.02	.00	.00	.81	.75
57	457490	2618670	2668	2.81	7502	.43	32.26	.11	8.25	.00	.00	.85	6.38
58	457490	2618690	3000	2.80	8408	.33	27.74	.08	6.73	.00	.00	.98	8.24
59	457490	2618710	200	2.80	560	.26	1.46	.06	.34	.00	.00	1.23	.69
			188964		460536		5451.56		691.83		343.19		1019.94

Geological Ore Reserve
Rakah : 620 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457230	2618770	800	2.89	2310	.93	21.49	.09	2.08	4.12	9.52	12.17	28.12
②	457230	2618790	108	3.13	338	2.65	8.95	.11	.37	4.98	1.68	13.37	4.51
③	457250	2618770	876	2.84	2488	.61	15.18	.13	3.23	2.62	6.52	9.76	24.29
④	457250	2618790	4000	2.98	11932	1.63	194.49	.14	16.70	3.58	42.72	10.45	124.69
⑤	457250	2618810	1600	3.05	4879	2.13	103.93	.14	6.83	3.96	19.32	11.14	54.35
6	457270	2618730	1000	2.80	2803	.33	9.25	.15	4.20	.77	2.16	6.55	18.36
7	457270	2618750	3000	2.82	8465	.48	40.63	.23	19.47	.63	5.33	6.65	56.29
8	457270	2618770	600	2.88	1727	.87	15.03	.20	3.45	1.41	2.44	6.38	11.02
9	457270	2618790	4000	2.93	11704	1.22	142.79	.20	23.41	1.85	21.65	6.14	71.86
⑩	457270	2618810	3600	2.98	10739	1.63	175.04	.20	21.48	2.45	26.31	7.21	77.43
11	457290	2618750	4000	2.85	11400	.66	75.24	.16	18.24	.58	6.61	4.49	51.19
12	457290	2618770	4000	2.89	11552	.94	108.59	.21	24.26	.76	8.78	4.00	46.21
13	457290	2618790	4000	2.94	11742	1.29	151.47	.26	30.53	1.10	12.92	3.49	40.98
⑭	457290	2618810	3600	2.91	10465	1.11	116.16	.25	26.16	1.30	13.60	4.53	47.41
15	457310	2618710	652	2.80	1827	.33	6.03	.10	1.83	.51	.93	3.21	5.87
16	457310	2618730	4000	2.82	11286	.47	53.04	.12	13.54	.47	5.30	3.33	37.58
17	457310	2618750	4000	2.92	11666	1.13	131.83	.13	15.17	.31	3.62	3.38	39.43
18	457310	2618770	3500	2.85	9975	.69	68.83	.20	19.95	.59	5.89	3.26	32.52
19	457310	2618790	2500	2.84	7101	.63	44.74	.24	17.04	.77	5.47	3.37	23.93
⑳	457310	2618810	1000	2.84	2841	.63	17.90	.26	7.39	.89	2.53	3.63	10.31
21	457330	2618690	1500	2.84	4261	.62	26.42	.12	5.11	.44	1.87	2.28	9.71
22	457330	2618710	4000	2.84	11362	.63	71.58	.14	15.91	.46	5.23	2.36	26.81
23	457330	2618730	4000	2.83	11324	.57	64.55	.15	16.99	.44	4.98	2.52	28.54
24	457350	2618570	736	2.83	2084	.52	10.83	.50	10.42	.50	1.04	2.64	5.50
25	457350	2618590	3200	2.82	9029	.44	39.73	.44	39.73	.42	3.79	2.24	20.22
26	457350	2618670	332	2.91	965	1.11	10.71	.20	1.93	.34	.33	1.79	1.73
27	457350	2618690	2000	2.91	5814	1.11	64.54	.17	9.88	.43	2.50	1.98	11.51
28	457350	2618710	4000	2.92	11666	1.17	136.49	.18	21.00	.44	5.13	2.14	24.97
29	457350	2618730	4000	2.83	11324	.56	63.41	.17	19.25	.53	6.00	2.28	25.82
30	457370	2618590	3200	2.80	8968	.34	30.49	.38	34.08	.36	3.23	1.94	17.40
31	457370	2618610	1600	2.80	4484	.31	13.90	.34	15.25	.24	1.08	1.38	6.19
32	457370	2618670	2668	2.98	7959	1.64	130.52	.24	19.10	.28	2.23	1.45	11.54
33	457370	2618690	4000	2.96	11856	1.52	180.21	.20	23.71	.37	4.39	1.76	20.87
34	457370	2618710	4000	2.89	11552	.97	112.05	.17	19.64	.52	6.01	2.00	23.10
35	457370	2618730	3332	2.82	9401	.48	45.13	.16	15.04	.69	6.49	2.16	20.31
36	457390	2618590	1600	2.80	4480	.21	9.41	.29	12.99	.27	1.21	1.54	6.90
37	457390	2618610	3200	2.80	8960	.23	20.61	.30	26.88	.17	1.52	1.05	9.41
38	457390	2618650	1000	2.89	2888	.93	26.86	.24	6.93	.17	.49	.99	2.86
39	457390	2618670	4000	3.08	12312	2.32	285.64	.26	32.01	.24	2.95	1.28	15.76
40	457390	2618690	4000	2.95	11818	1.45	171.36	.19	22.45	.32	3.78	1.51	17.85
41	457390	2618710	4000	2.88	11514	.89	102.47	.15	17.27	.46	5.30	1.74	20.03
42	457390	2618730	2000	2.83	5662	.55	31.14	.15	8.49	.60	3.40	1.93	10.93
43	457410	2618670	4000	2.90	11590	1.02	118.22	.18	20.86	.21	2.43	1.22	14.14
44	457410	2618690	4000	2.90	11590	1.02	118.22	.13	15.07	.24	2.78	1.36	15.76
45	457410	2618710	4000	2.87	11476	.81	92.96	.13	14.92	.36	4.13	1.54	17.67
46	457410	2618730	668	2.83	1891	.56	10.59	.13	2.46	.49	.93	1.78	3.37
47	457430	2618650	1000	2.81	2812	.43	12.09	.21	5.91	.17	.48	1.02	2.87
48	457430	2618670	4000	2.84	11362	.64	72.72	.20	22.72	.22	2.50	1.25	14.20
49	457430	2618690	4000	2.86	11438	.78	89.22	.16	18.30	.27	3.09	1.38	15.78
50	457430	2618710	2800	2.83	7927	.58	45.98	.10	7.93	.32	2.54	1.49	11.81
51	457450	2618650	1000	2.83	2831	.57	16.14	.25	7.08	.18	.51	1.07	3.03
52	457450	2618670	4000	2.86	11438	.76	86.93	.30	34.31	.22	2.52	1.23	14.07
53	457450	2618690	4000	2.85	11400	.67	76.38	.18	20.52	.27	3.08	1.39	15.85
54	457450	2618710	2000	2.84	5681	.61	34.65	.12	6.82	.34	1.93	1.49	8.46
55	457470	2618650	600	2.83	1699	.57	9.68	.24	4.08	.19	.32	1.12	1.90
56	457470	2618670	4000	2.84	11362	.63	71.58	.22	25.00	.23	2.61	1.23	13.98
57	457470	2618690	4000	2.84	11362	.62	70.44	.15	17.04	.28	3.18	1.33	15.11
58	457470	2618710	1200	2.83	3397	.57	19.36	.08	2.72	.34	1.16	1.47	4.99
59	457490	2618670	1000	2.81	2812	.43	12.09	.15	4.22	.23	.65	1.18	3.32
60	457490	2618690	2584	2.81	7266	.40	29.06	.09	6.54	.28	2.03	1.30	9.45
61	457490	2618710	420	2.83	1189	.53	6.30	.04	.48	.33	.39	1.38	1.64
			162476		467445		4141.25		906.36		313.50		1331.69

Geological Ore Reserve
Rakah : 610 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457190	2618770	260	2.80	728	1.32	9.61	.45	3.28	2.32	1.69	19.80	14.41
②	457190	2618790	1300	2.80	3640	1.02	37.13	.36	13.10	1.06	3.86	19.20	69.89
③	457210	2618790	2068	2.80	5790	.52	30.11	.20	11.58	.43	2.49	18.55	107.41
④	457210	2618810	332	2.80	930	.52	4.83	.25	2.32	.23	.21	17.94	16.68
⑤	457230	2618810	2416	2.80	6765	.22	14.88	.21	14.21	.11	.74	16.50	111.62
⑥	457270	2618730	500	3.27	1634	7.10	116.01	1.62	26.47	6.86	11.21	19.90	32.52
⑦	457290	2618710	332	3.54	1176	9.65	113.53	2.20	25.88	8.97	10.55	18.30	21.53
⑧	457290	2618730	1592	3.79	6034	12.80	772.41	2.82	170.17	11.32	68.31	20.42	123.22
9	457290	2618750	4000	3.06	12236	5.00	611.80	.98	119.91	6.06	74.15	15.29	187.09
10	457290	2618770	1200	2.81	3374	.39	13.16	.32	10.80	1.92	6.48	10.86	36.65
11	457290	2618790	1300	2.83	3680	.55	20.24	.33	12.14	.69	2.54	7.97	29.33
12	457290	2618810	3796	2.80	10638	.34	36.17	.31	32.98	.65	6.91	7.17	76.28
⑬	457310	2618710	1200	3.36	4036	7.19	290.16	1.69	68.20	7.56	30.51	13.53	54.60
⑭	457310	2618730	4000	3.19	12768	7.41	946.11	1.21	154.49	6.47	82.61	13.75	175.56
15	457310	2618750	4000	2.80	11200	.29	32.48	.09	10.08	4.99	55.89	10.29	115.25
16	457310	2618770	4000	2.81	11248	.51	57.36	.22	24.75	1.42	15.97	5.79	65.13
17	457310	2618790	4000	2.81	11248	.37	41.62	.28	31.49	.76	8.55	4.19	47.13
18	457310	2618810	3092	2.81	8695	.39	33.91	.34	29.56	.88	7.65	4.80	41.73
19	457330	2618710	2000	3.00	6004	3.39	203.54	.73	43.83	3.18	19.09	6.95	41.73
20	457330	2618730	4000	2.94	11780	2.62	308.64	.53	62.43	3.08	36.28	6.68	78.69
21	457330	2618750	4000	2.80	11200	.25	28.00	.12	13.44	.41	4.59	4.19	46.93
22	457330	2618770	4000	2.81	11248	.41	46.12	.13	14.62	.10	1.12	1.40	15.75
23	457330	2618790	4000	2.81	11248	.38	42.74	.26	29.24	.69	7.76	2.63	29.58
24	457330	2618810	1600	2.81	4499	.40	18.00	.41	18.45	1.37	6.16	2.85	12.82
25	457350	2618690	800	2.92	2333	1.46	34.06	.42	9.80	1.03	2.40	3.01	7.02
26	457350	2618710	4000	2.87	11476	.82	94.10	.42	48.20	.64	7.34	2.19	25.13
27	457350	2618730	4000	2.89	11552	1.15	132.85	.31	35.81	.81	9.36	2.50	28.88
28	457350	2618750	4000	2.84	11362	.72	81.81	.18	20.45	.45	5.11	1.73	19.66
29	457350	2618770	1088	2.80	3046	.21	6.40	.12	3.66	.27	.82	1.30	3.96
30	457370	2618610	3356	2.93	9820	1.21	118.82	.14	13.75	.54	5.30	1.51	14.83
31	457370	2618630	500	2.93	1463	1.25	18.29	.12	1.76	.55	.80	1.15	1.68
32	457370	2618670	400	2.96	1186	1.47	17.43	.24	2.85	.74	.88	1.91	2.26
33	457370	2618690	4000	2.94	11780	1.32	155.50	.28	32.98	.50	5.89	1.78	20.97
34	457370	2618710	4000	2.92	11666	1.15	134.16	.28	32.66	.55	6.42	1.81	21.12
35	457370	2618730	4000	2.94	11742	1.33	156.17	.23	27.01	.62	7.28	1.59	18.67
36	457370	2618750	1600	2.87	4590	.82	37.64	.19	8.72	.50	2.30	1.28	5.88
37	457390	2618610	4000	2.90	11590	1.05	121.69	.11	12.75	.53	6.14	1.12	12.98
38	457390	2618630	3500	2.93	10241	1.27	130.06	.04	4.10	.57	5.84	.74	7.58
39	457390	2618650	500	2.94	1468	1.28	18.79	.14	2.05	.50	.73	1.05	1.54
40	457390	2618670	800	3.02	2417	1.89	45.68	.23	5.56	.46	1.11	1.38	3.34
41	457390	2618690	4000	2.97	11894	1.57	186.74	.19	22.60	.46	5.47	1.61	19.15
42	457390	2618710	4000	2.94	11742	1.33	156.17	.19	22.31	.50	5.87	1.69	19.84
43	457390	2618730	3800	2.91	11047	1.13	124.83	.20	22.09	.54	5.97	1.34	14.80
44	457390	2618750	332	2.87	953	.84	8.00	.18	1.71	.56	.53	1.03	.98
45	457410	2618610	3500	2.86	10008	.78	78.06	.09	9.01	.55	5.50	.95	9.51
46	457410	2618630	2000	2.87	5738	.84	48.20	.09	5.16	.54	3.10	.88	5.05
47	457410	2618650	2000	2.86	5719	.74	42.32	.16	9.15	.50	2.86	1.07	6.12
48	457410	2618670	800	2.93	2341	1.26	29.49	.14	3.28	.44	1.03	1.38	3.23
49	457410	2618690	4000	2.98	11932	1.67	199.26	.09	10.74	.40	4.77	1.56	18.61
50	457410	2618710	4000	2.92	11666	1.18	137.66	.13	15.17	.45	5.25	1.60	18.67
51	457410	2618730	2400	2.88	6908	.91	62.87	.16	11.05	.53	3.66	1.41	9.74
52	457430	2618630	500	2.81	1406	.44	6.19	.09	1.27	.51	.72	.98	1.38
53	457430	2618650	1600	2.82	4514	.52	23.47	.09	4.06	.48	2.17	1.15	5.19
54	457430	2618670	800	2.85	2280	.68	15.50	.08	1.82	.43	.98	1.42	3.24
55	457430	2618690	4000	2.87	11476	.84	96.40	.08	9.18	.41	4.71	1.57	18.02
56	457430	2618710	4000	2.84	11362	.65	73.85	.12	13.63	.43	4.89	1.58	17.95
57	457430	2618730	800	2.85	2280	.74	16.87	.13	2.96	.51	1.16	1.42	3.24
58	457450	2618690	2000	2.80	5605	.38	21.30	.06	3.36	.44	2.47	1.54	8.63
59	457450	2618710	3500	2.82	9875	.51	50.36	.09	8.89	.47	4.64	1.55	15.31
60	457470	2618710	752	2.80	2106	.28	5.90	.06	1.26	.50	1.05	1.49	3.14
			148316		430384		6515.44		1384.26		599.87		1948.81

Geological Ore Reserve
Rakah : 600 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
①	457250	2618810	1200	2.80	3360	.24	8.06	.35	11.76	2.38	8.00	14.70	49.39
②	457270	2618810	1200	2.80	3360	.27	9.07	.37	12.43	1.44	4.84	6.58	22.11
③	457270	2618830	752	2.80	2106	.23	4.84	.46	9.69	.70	1.47	1.97	4.15
4	457290	2618810	1332	2.81	3746	.42	15.73	.33	12.36	1.14	4.27	3.00	11.24
⑤	457290	2618830	1600	2.80	4480	.31	13.89	.40	17.92	.84	3.76	1.75	7.84
6	457310	2618770	3500	2.87	10042	.84	84.35	.15	15.06	.72	7.23	3.56	35.75
7	457310	2618790	2500	2.89	7220	.94	67.87	.22	15.88	.98	7.08	2.62	18.92
8	457310	2618810	2400	2.84	6817	.62	42.27	.27	18.41	1.03	7.02	2.32	15.82
⑨	457310	2618830	2400	2.82	6772	.45	30.47	.32	21.67	.95	6.43	1.37	9.28
10	457330	2618730	2000	2.84	5681	.62	35.22	.25	14.20	.51	2.90	2.04	11.59
11	457330	2618750	4000	2.84	11362	.62	70.44	.08	9.09	.31	3.52	2.26	25.68
12	457330	2618770	4000	3.01	12046	1.82	219.24	.19	22.89	.39	4.70	2.45	29.51
13	457330	2618790	4000	2.90	11590	.99	114.74	.21	24.34	.74	8.58	2.25	26.08
14	457330	2618810	3324	2.84	9442	.60	56.65	.22	20.77	1.07	10.10	1.71	16.15
15	457330	2618830	1500	2.83	4247	.54	22.93	.26	11.04	1.03	4.37	1.33	5.65
16	457350	2618710	1000	2.88	2879	.88	25.33	.44	12.67	.67	1.93	1.24	3.57
17	457350	2618730	4000	2.88	11514	.87	100.17	.40	46.06	.50	5.76	1.55	17.85
18	457350	2618750	4000	2.87	11476	.79	90.66	.30	34.43	.39	4.48	2.07	23.76
19	457350	2618770	3668	2.80	10280	.31	31.87	.23	23.64	.40	4.11	2.31	23.75
20	457350	2618790	2000	2.86	5719	.73	41.75	.22	12.58	.66	3.77	2.25	12.87
21	457350	2618810	1000	2.84	2841	.59	16.76	.22	6.25	.94	2.67	1.76	5.00
22	457370	2618690	500	2.85	1425	.72	10.26	.31	4.42	.44	.63	.95	1.35
23	457370	2618710	3500	2.90	10141	1.06	107.50	.45	45.64	.52	5.27	1.18	11.97
24	457370	2618730	4000	2.92	11666	1.18	137.66	.63	73.50	.50	5.83	1.43	16.68
25	457370	2618750	4000	2.86	11438	.77	88.07	.44	50.33	.43	4.92	1.69	19.33
26	457370	2618770	1332	2.83	3771	.51	19.23	.29	10.94	.48	1.81	1.93	7.28
27	457390	2618610	3000	2.83	8493	.59	50.11	.05	4.25	.12	1.02	.28	2.38
28	457390	2618630	3832	2.80	10730	.33	35.41	.03	3.22	.12	1.29	.29	3.11
29	457390	2618650	668	2.80	1872	.40	7.49	.10	1.87	.15	.28	.42	.79
30	457390	2618690	1400	2.89	4043	.97	39.22	.20	8.09	.25	1.01	.75	3.03
31	457390	2618710	4000	2.96	11856	1.52	180.21	.33	39.12	.34	4.03	.98	11.62
32	457390	2618730	4000	2.95	11818	1.46	172.54	.47	55.54	.38	4.49	1.22	14.42
33	457390	2618750	2000	2.93	5852	1.22	71.39	.43	25.16	.43	2.52	1.38	8.08
34	457410	2618610	1000	2.80	2803	.38	10.65	.04	1.12	.11	.31	.28	.78
35	457410	2618630	3200	2.81	8998	.46	41.39	.04	3.60	.12	1.08	.33	2.97
36	457410	2618650	2500	2.86	7149	.78	55.76	.05	3.57	.12	.86	.43	3.07
37	457410	2618690	1800	2.97	5352	1.60	85.64	.06	3.21	.10	.54	.60	3.21
38	457410	2618710	2400	3.07	7364	2.24	164.96	.19	13.99	.20	1.47	.79	5.82
39	457410	2618730	4000	3.09	12350	2.38	293.93	.29	35.81	.32	3.95	1.06	13.09
40	457410	2618750	600	3.02	1813	1.93	34.98	.30	5.44	.41	.74	1.24	2.25
41	457430	2618650	2800	2.80	7847	.44	34.53	.04	3.14	.10	.78	.45	3.53
42	457430	2618690	1000	2.99	2993	1.75	52.37	.07	2.09	.11	.33	.64	1.92
43	457430	2618710	3180	3.26	10362	3.61	374.07	.11	11.40	.16	1.66	.74	7.67
44	457430	2618730	4000	3.16	12654	2.95	373.29	.16	20.25	.26	3.29	.93	11.77
45	457450	2618710	4000	3.06	12236	2.19	267.97	.09	11.01	.15	1.84	.80	9.79
46	457450	2618730	4000	3.13	12502	2.66	332.55	.12	15.00	.25	3.13	.91	11.38
47	457470	2618710	2000	2.89	5776	1.00	57.76	.09	5.20	.17	.98	.80	4.62
48	457470	2618730	4000	2.94	11780	1.37	161.39	.10	11.78	.24	2.83	.88	10.37
			124088		362060		4362.65		841.83		163.87		568.18

Geological Ore Reserve
Rakah : 590 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457310	2618670	1000	2.81	2812	.39	10.97	.34	9.56	.88	2.47	4.95	13.92
2	457310	2618690	2284	2.80	6401	.35	22.40	.33	21.12	.98	6.27	4.84	30.98
3	457310	2618830	2000	2.80	5605	.32	17.94	1.11	62.22	.41	2.30	5.66	31.72
4	457330	2618670	3000	2.82	8465	.49	41.48	.30	25.39	.72	6.09	2.57	21.75
5	457330	2618690	1000	2.83	2831	.56	15.85	.27	7.64	.73	2.07	2.12	6.00
6	457330	2618730	1600	2.84	4545	.66	30.00	.18	8.18	.79	3.59	1.67	7.59
7	457330	2618750	3528	2.80	9878	.22	21.73	.13	12.84	.31	3.06	1.57	15.51
8	457330	2618770	2920	2.83	8267	.53	43.81	.07	5.79	.20	1.65	1.60	13.23
9	457330	2618790	2000	2.85	5700	.66	37.62	.25	14.25	.43	2.45	2.74	15.62
10	457330	2618810	2000	2.84	5681	.58	32.95	.59	33.52	.42	2.39	3.78	21.47
11	457330	2618830	3500	2.82	9875	.48	47.40	.84	82.95	.33	3.26	4.27	42.17
12	457350	2618710	480	2.88	1382	.92	12.71	.20	2.76	.44	.61	1.24	1.71
13	457350	2618730	4000	2.88	11514	.87	100.17	.27	31.09	.36	4.15	1.25	14.39
14	457350	2618750	4000	2.88	11514	.88	101.32	.21	24.18	.22	2.53	1.43	16.47
15	457350	2618770	4000	2.93	11704	1.20	140.45	.11	12.87	.18	2.11	1.72	20.13
16	457350	2618790	2400	2.89	6931	.92	63.77	.19	13.17	.24	1.66	2.27	15.73
17	457350	2618810	2000	2.86	5719	.75	42.89	.41	23.45	.21	1.20	2.93	16.76
18	457350	2618830	500	2.84	1420	.62	8.81	.63	8.95	.25	.36	3.34	4.74
19	457370	2618710	1200	2.89	3466	.96	33.27	.33	11.44	.40	1.39	1.20	4.16
20	457370	2618730	4000	2.94	11780	1.38	162.56	.45	53.01	.32	3.77	1.25	14.73
21	457370	2618750	4000	2.92	11666	1.18	137.66	.29	33.83	.20	2.33	1.32	15.40
22	457370	2618770	2000	2.92	5833	1.14	66.50	.22	12.83	.16	.93	1.73	10.09
23	457390	2618650	4000	2.80	11200	.29	32.48	.16	17.92	.23	2.58	.50	5.60
24	457390	2618710	1200	2.88	3454	.89	30.74	.35	12.09	.31	1.07	1.09	3.77
25	457390	2618730	4000	2.92	11666	1.15	134.16	.37	43.16	.26	3.03	1.26	14.70
26	457390	2618750	2600	2.92	7583	1.17	88.72	.33	25.02	.18	1.36	1.37	10.39
27	457410	2618650	4000	2.85	11400	.66	75.24	.03	3.42	.23	2.62	.55	6.27
28	457410	2618670	2500	2.81	7030	.41	28.82	.21	14.76	.26	1.83	.74	5.20
29	457410	2618710	800	2.86	2288	.74	16.93	.30	6.86	.25	.57	1.08	2.47
30	457410	2618730	4000	2.88	11514	.90	103.63	.31	35.69	.23	2.65	1.22	14.05
31	457410	2618750	1600	2.89	4621	.98	45.28	.28	12.94	.20	.92	1.38	6.38
32	457430	2618650	4000	2.82	11286	.46	51.92	.12	13.54	.23	2.60	.63	7.11
33	457430	2618670	3500	2.81	9842	.45	44.29	.17	16.73	.24	2.36	.78	7.68
34	457430	2618710	500	2.84	1420	.61	8.66	.24	3.41	.21	.30	1.06	1.51
35	457430	2618730	2800	2.85	7980	.72	57.46	.24	19.15	.20	1.60	1.21	9.66
36	457430	2618750	2000	2.86	5719	.79	45.18	.23	13.15	.19	1.09	1.31	7.49
37	457450	2618650	2400	2.80	6726	.37	24.89	.16	10.76	.22	1.48	.71	4.78
38	457450	2618670	2000	2.80	5600	.31	17.36	.21	11.76	.22	1.23	.84	4.70
39	457450	2618690	600	2.80	1682	.40	6.73	.19	3.19	.21	.35	.97	1.63
40	457450	2618730	2000	2.84	5681	.60	34.09	.19	10.79	.19	1.08	1.25	7.10
41	457450	2618750	1600	2.84	4545	.60	27.27	.17	7.73	.20	.91	1.40	6.36
42	457470	2618650	800	2.80	2240	.30	6.72	.15	3.36	.20	.45	.77	1.72
43	457470	2618670	1600	2.80	4480	.32	14.34	.16	7.17	.21	.94	.91	4.08
44	457470	2618690	1200	2.80	3363	.37	12.44	.14	4.71	.21	.71	1.05	3.53
45	457490	2618670	800	2.80	2240	.22	4.93	.10	2.24	.20	.45	.98	2.20
46	457490	2618690	1600	2.80	4480	.26	11.65	.08	3.58	.21	.94	1.14	5.11
			105512		301027		2116.16		814.21		89.76		497.74

Geological Ore Reserve
Rakah : 580 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457350	2618750	800	2.81	2250	.41	9.22	.10	2.25	3.62	8.14	1.25	2.81
2	457350	2618770	1640	2.80	4592	.27	12.40	.08	3.67	4.35	19.98	1.25	5.74
3	457350	2618790	2400	2.82	6772	.47	31.83	.11	7.45	2.40	16.25	1.25	8.46
4	457350	2618810	4000	2.82	11286	.47	53.04	.11	12.41	1.53	17.27	1.25	14.11
5	457370	2618670	2000	2.80	5605	.34	19.06	.26	14.57	2.12	11.88	1.25	7.01

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
6	457370	2618690	2000	2.81	5624	.37	20.81	.20	11.25	2.16	12.15	1.25	7.03
7	457370	2618730	1200	2.84	3409	.59	20.11	.10	3.41	2.30	7.84	1.25	4.26
8	457370	2618750	4000	2.82	11286	.48	54.17	.16	18.06	2.25	25.39	1.25	14.11
9	457370	2618770	4000	2.82	11286	.50	56.43	.18	20.31	1.86	20.99	1.25	14.11
10	457370	2618790	2128	2.86	6085	.76	46.25	.16	9.74	.62	3.77	1.25	7.61
11	457370	2618810	1000	2.81	2812	.40	11.25	.11	3.09	.79	2.22	1.25	3.52
12	457390	2618650	1000	2.81	2812	.36	10.12	.18	5.06	1.69	4.75	1.25	3.52
13	457390	2618670	4000	2.80	11210	.32	35.87	.32	35.87	1.66	18.61	1.25	14.01
14	457390	2618690	2000	2.80	5600	.25	14.00	.15	8.40	1.60	8.96	1.25	7.00
15	457390	2618730	4000	2.82	11286	.45	50.79	.13	14.67	1.21	13.66	1.25	14.11
16	457390	2618750	4000	2.82	11286	.49	55.30	.20	22.57	.87	9.82	1.25	14.11
17	457390	2618770	800	2.82	2257	.49	11.06	.32	7.22	.40	.90	1.25	2.82
18	457410	2618650	64	2.81	180	.39	.70	.04	.07	1.32	.24	1.25	.22
19	457410	2618670	4000	2.80	11200	.24	26.88	.17	19.04	1.23	13.78	1.25	14.00
20	457410	2618730	1600	2.80	4484	.36	16.14	.14	6.28	.71	3.18	1.25	5.61
21	457410	2618750	3124	2.82	8814	.44	38.78	.20	17.63	.38	3.35	1.25	11.02
22	457430	2618650	2000	2.80	5605	.31	17.38	.26	14.57	1.01	5.66	1.25	7.01
23	457430	2618670	4000	2.80	11200	.23	25.76	.28	31.36	.90	10.08	1.25	14.00
24	457430	2618730	1000	2.80	2803	.35	9.81	.14	3.92	.50	1.40	1.25	3.50
25	457430	2618750	3000	2.81	8436	.41	34.59	.15	12.65	.33	2.78	1.25	10.55
26	457450	2618650	1000	2.80	2800	.27	7.56	.38	10.64	.76	2.13	1.25	3.50
27	457450	2618670	4000	2.80	11210	.29	32.51	.63	70.62	.67	7.51	1.25	14.01
28	457450	2618690	2500	2.80	7000	.26	18.20	.36	25.20	.58	4.06	1.25	8.75
29	457450	2618750	2000	2.82	5643	.46	25.96	.08	4.51	.26	1.47	1.25	7.05
30	457470	2618670	2000	2.80	5600	.25	14.00	.38	21.28	.49	2.74	1.25	7.00
31	457470	2618690	3500	2.80	9800	.30	29.40	.30	29.40	.41	4.02	1.25	12.25
32	457490	2618690	2000	2.80	5600	.21	11.76	.14	7.84	.24	1.34	1.25	7.00
33	457490	2618710	1000	2.80	2803	.34	9.53	.04	1.12	.15	.42	1.25	3.50
			77756		218634		830.66		476.17		266.75		273.29

Geological Ore Reserve
Rakah : 570 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457350	2618770	1000	2.82	2822	.46	12.98	.12	3.39	.60	1.69	1.50	4.23
2	457350	2618790	800	2.84	2272	.60	13.63	.09	2.05	.64	1.45	1.50	3.41
3	457350	2618810	800	2.89	2310	.93	21.49	.11	2.54	.68	1.57	1.50	3.47
4	457350	2618830	2400	2.92	7000	1.16	81.20	.13	9.10	.72	5.04	1.50	10.50
5	457370	2618670	2000	2.80	5605	.38	21.30	.19	10.65	.51	2.86	1.50	8.41
6	457370	2618690	2000	2.80	5605	.40	22.42	.19	10.65	.52	2.91	1.50	8.41
7	457370	2618750	1000	2.83	2831	.55	15.57	.23	6.51	.56	1.59	1.50	4.25
8	457370	2618770	3200	2.83	9059	.58	52.54	.18	16.31	.58	5.25	1.50	13.59
9	457370	2618790	4000	2.82	11286	.45	50.79	.06	6.77	.62	7.00	1.50	16.93
10	457370	2618810	4000	2.95	11818	1.41	166.63	.18	21.27	.74	8.75	1.50	17.73
11	457370	2618830	3500	3.02	10574	1.88	198.78	.23	24.32	.80	8.46	1.50	15.86
12	457390	2618670	4000	2.80	11210	.38	42.60	.19	21.30	.52	5.83	1.50	16.82
13	457390	2618690	2000	2.80	5605	.39	21.86	.19	10.65	.53	2.97	1.50	8.41
14	457390	2618730	1000	2.81	2812	.43	12.09	.21	5.91	.54	1.52	1.50	4.22
15	457390	2618750	4000	2.82	11286	.51	57.56	.23	25.96	.55	6.21	1.50	16.93
16	457390	2618770	4000	2.85	11400	.72	82.08	.31	35.34	.55	6.27	1.50	17.10
17	457390	2618790	4000	2.92	11666	1.19	138.83	.23	26.83	.69	8.05	1.50	17.50
18	457390	2618810	3000	3.11	9320	2.49	232.06	.31	28.89	.87	8.11	1.50	13.98
19	457390	2618830	500	3.08	1539	2.30	35.40	.28	4.31	.85	1.31	1.50	2.31
20	457410	2618670	4000	2.80	11200	.33	36.96	.17	19.04	.52	5.82	1.50	16.80
21	457410	2618690	2000	2.80	5600	.34	19.04	.17	9.52	.53	2.97	1.50	8.40
22	457410	2618730	1000	2.81	2812	.42	11.81	.17	4.78	.55	1.55	1.50	4.22
23	457410	2618750	4000	2.81	11248	.42	47.24	.19	21.37	.56	6.30	1.50	16.87
24	457410	2618770	1952	2.80	5466	.30	16.40	.17	9.29	.61	3.33	1.50	8.20
25	457410	2618790	1000	2.94	2936	1.27	37.28	.25	7.34	.72	2.11	1.50	4.40

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
26	457430	2618670	4000	2.80	11200	.27	30.24	.16	17.92	.54	6.05	1.50	16.80
27	457430	2618690	2500	2.80	7000	.28	19.60	.15	10.50	.55	3.85	1.50	10.50
28	457430	2618750	2000	2.82	5643	.48	27.09	.12	6.77	.59	3.33	1.50	8.46
29	457430	2618770	1000	2.84	2841	.64	18.18	.16	4.54	.66	1.87	1.50	4.26
30	457450	2618670	2000	2.80	5600	.23	12.88	.15	8.40	.55	3.08	1.50	8.40
31	457450	2618690	3500	2.80	9800	.26	25.48	.12	11.76	.56	5.49	1.50	14.70
32	457450	2618730	2000	2.83	5662	.55	31.14	.07	3.96	.59	3.34	1.50	8.49
33	457450	2618750	1000	2.85	2850	.69	19.66	.08	2.28	.63	1.80	1.50	4.28
34	457450	2618770	2000	2.87	5738	.85	48.77	.11	6.31	.68	3.90	1.50	8.61
35	457470	2618670	800	2.80	2240	.22	4.93	.10	2.24	.57	1.28	1.50	3.36
36	457470	2618690	4000	2.80	11200	.24	26.88	.08	8.96	.58	6.50	1.50	16.80
37	457470	2618710	2000	2.80	5605	.34	19.06	.06	3.36	.60	3.36	1.50	8.41
38	457470	2618730	2000	2.83	5662	.58	32.84	.04	2.26	.63	3.57	1.50	8.49
39	457470	2618750	4000	2.88	11514	.89	102.47	.03	3.45	.66	7.60	1.50	17.27
40	457470	2618770	2000	2.89	5776	.95	54.87	.07	4.04	.71	4.10	1.50	8.66
41	457490	2618710	4000	2.80	11200	.20	22.40	.03	3.36	.62	6.94	1.50	16.80
42	457490	2618750	1876	2.86	5364	.75	40.23	.04	2.15	.69	3.70	1.50	8.05
43	457490	2618770	1500	2.89	4332	.96	41.59	.05	2.17	.73	3.16	1.50	6.50
			103328		294507		2026.84		448.53		181.84		441.76

Geological Ore Reserve
Rakah : 560 m
Cut-off grade : *0.20 Cu*

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457350	2618830	1000	2.82	2822	.49	13.83	.17	4.80	1.20	3.39	.58	1.64
2	457370	2618670	600	2.84	1704	.62	10.57	.18	3.07	.50	.85	.97	1.65
3	457370	2618690	2000	2.85	5700	.68	38.76	.15	8.55	.48	2.74	.93	5.30
4	457370	2618710	3200	2.83	9059	.59	53.45	.13	11.78	.45	4.08	.84	7.61
5	457370	2618810	3000	2.84	8522	.61	51.98	.16	13.63	.74	6.31	.61	5.20
6	457370	2618830	4000	2.86	11438	.78	89.22	.21	24.02	1.43	16.36	.65	7.43
7	457390	2618670	1692	2.83	4790	.57	27.30	.20	9.58	.52	2.49	1.00	4.79
8	457390	2618690	4000	2.87	11476	.86	98.69	.12	13.77	.52	5.97	.98	11.25
9	457390	2618710	4000	2.87	11476	.84	96.40	.09	10.33	.56	6.43	.93	10.67
10	457390	2618750	1000	2.83	2831	.58	16.42	.15	4.25	.53	1.50	.74	2.09
11	457390	2618770	2800	2.80	7840	.30	23.52	.07	5.49	.30	2.35	.57	4.47
12	457390	2618790	4000	2.85	11400	.69	78.66	.16	18.24	.47	5.36	.67	7.64
13	457390	2618810	4000	2.93	11704	1.26	147.47	.19	22.24	.48	5.62	.72	8.43
14	457390	2618830	1744	2.86	4987	.75	37.40	.24	11.97	2.03	10.12	.77	3.84
15	457410	2618670	1200	2.87	3443	.85	29.26	.11	3.79	.54	1.86	1.01	3.48
16	457410	2618690	3480	2.94	10216	1.33	135.87	.05	5.11	.53	5.41	1.01	10.32
17	457410	2618710	4000	2.87	11476	.82	94.10	.08	9.18	.66	7.57	1.02	11.71
18	457410	2618750	2000	2.85	5700	.70	39.90	.15	8.55	.94	5.36	1.01	5.76
19	457410	2618770	4000	2.93	11704	1.20	140.45	.34	39.79	.91	10.65	.99	11.59
20	457410	2618790	4000	2.88	11514	.90	103.63	.18	20.73	.84	9.67	.95	10.94
21	457410	2618810	4000	2.90	11590	1.01	117.06	.20	23.18	1.18	13.68	.95	11.01
22	457410	2618830	1000	2.88	2879	.92	26.48	.22	6.33	1.75	5.04	.91	2.62
23	457430	2618670	2000	2.87	5738	.79	45.33	.06	3.44	.56	3.21	1.02	5.85
24	457430	2618690	4000	2.86	11438	.78	89.22	.06	6.86	.63	7.21	1.05	12.01
25	457430	2618710	3480	2.80	9753	.37	36.08	.07	6.83	.81	7.90	1.10	10.73
26	457430	2618730	1000	2.83	2831	.55	15.57	.07	1.98	1.04	2.94	1.17	3.31
27	457430	2618750	1000	2.84	2841	.62	17.61	.09	2.56	1.38	3.92	1.29	3.66
28	457430	2618770	1320	2.81	3712	.42	15.59	.01	.37	1.60	5.94	1.40	5.20
29	457430	2618790	4000	2.87	11476	.84	96.40	.16	18.36	1.33	15.26	1.24	14.23
30	457430	2618810	2000	2.89	5776	.98	56.60	.17	9.82	1.49	8.61	1.14	6.58
31	457450	2618670	420	2.83	1189	.53	6.30	.04	.48	.65	.77	1.06	1.26
32	457450	2618690	4000	2.85	11400	.69	78.66	.06	6.84	.78	8.89	1.11	12.65
33	457450	2618710	2000	2.85	5700	.67	38.19	.06	3.42	.98	5.59	1.18	6.73
34	457450	2618730	4000	2.84	11362	.60	68.17	.05	5.68	1.26	14.32	1.28	14.54
35	457450	2618750	2000	2.83	5662	.55	31.14	.03	1.70	1.52	8.61	1.39	7.87

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
36	457450	2618770	4000	2.84	11362	.60	68.17	.06	6.82	1.58	17.95	1.41	16.02
37	457450	2618790	1644	2.86	4701	.77	36.20	.14	6.58	1.61	7.57	1.38	6.49
38	457470	2618670	500	2.85	1425	.65	9.26	.05	.71	.75	1.07	1.11	1.58
39	457470	2618690	4000	2.88	11514	.90	103.63	.06	6.91	.91	10.48	1.17	13.47
40	457470	2618710	1000	2.90	2897	1.01	29.26	.06	1.74	1.09	3.16	1.23	3.56
41	457470	2618730	2000	2.87	5738	.85	48.77	.05	2.87	1.28	7.34	1.31	7.52
42	457470	2618750	4000	2.83	11324	.56	63.41	.03	3.40	1.52	17.21	1.39	15.74
43	457470	2618770	4000	2.84	11362	.64	72.72	.08	9.09	1.62	18.41	1.43	16.25
44	457470	2618790	800	2.88	2303	.89	20.49	.11	2.53	1.70	3.91	1.42	3.27
45	457490	2618690	4000	2.87	11476	.80	91.81	.06	6.89	1.01	11.59	1.22	14.00
46	457490	2618710	3000	2.96	8892	1.49	132.49	.07	6.22	1.17	10.40	1.28	11.38
47	457490	2618750	2000	2.84	5681	.62	35.22	.08	4.54	1.54	8.75	1.41	8.01
48	457490	2618770	3000	2.83	8493	.57	48.41	.12	10.19	1.65	14.01	1.44	12.23
49	457490	2618810	2800	2.94	8219	1.35	110.96	.11	9.04	1.83	15.04	1.40	11.51
50	457490	2618830	796	3.01	2397	1.88	45.07	.05	1.20	1.91	4.58	1.36	3.26
51	457510	2618690	2000	2.81	5624	.39	21.93	.05	2.81	1.11	6.24	1.28	7.20
52	457510	2618810	1200	2.89	3466	.98	33.96	.17	5.89	1.86	6.45	1.43	4.96
53	457510	2618830	500	2.96	1482	1.54	22.82	.10	1.48	1.95	2.89	1.41	2.09
			133176		381503		3059.89		435.62		393.01		412.59

Geological Ore Reserve
Rakah : 550 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457370	2618710	2000	2.83	5662	.57	32.27	.06	3.40	.34	1.93	.83	4.70
2	457370	2618730	2000	2.80	5605	.35	19.62	.08	4.48	.41	2.30	.97	5.44
3	457370	2618810	1000	2.80	2800	.24	6.72	.06	1.68	1.61	4.51	1.14	3.19
4	457370	2618830	2000	2.83	5662	.55	31.14	.13	7.36	1.84	10.42	1.15	6.51
5	457390	2618690	1000	2.87	2869	.80	22.95	.05	1.43	.28	.80	.66	1.89
6	457390	2618710	4000	2.84	11362	.63	71.58	.06	6.82	.31	3.52	.78	8.86
7	457390	2618730	2000	2.81	5624	.40	22.50	.07	3.94	.33	1.86	.92	5.17
8	457390	2618810	4000	2.80	11200	.23	25.76	.06	6.72	1.58	17.70	1.13	12.66
9	457390	2618830	4000	2.87	11476	.80	91.81	.18	20.66	1.85	21.23	1.13	12.97
10	457410	2618690	1920	2.88	5527	.89	49.19	.04	2.21	.26	1.44	.62	3.43
11	457410	2618710	4000	2.84	11362	.62	70.44	.07	7.95	.27	3.07	.73	8.29
12	457410	2618730	2000	2.80	5605	.36	20.18	.07	3.92	.28	1.57	.91	5.10
13	457410	2618810	4000	2.81	11248	.42	47.24	.11	12.37	1.42	15.97	1.10	12.37
14	457410	2618830	2000	2.85	5700	.68	38.76	.15	8.55	1.73	9.86	1.12	6.38
15	457430	2618690	2000	2.84	5681	.63	35.79	.07	3.98	.25	1.42	.66	3.75
16	457430	2618710	4000	2.82	11286	.48	54.17	.10	11.29	.23	2.60	.75	8.46
17	457430	2618730	3000	2.80	8408	.36	30.27	.08	6.73	.21	1.77	.88	7.40
18	457430	2618790	4000	2.80	11200	.25	28.00	.11	12.32	.55	6.16	1.06	11.87
19	457430	2618810	2000	2.82	5643	.46	25.96	.14	7.90	1.03	5.81	1.08	6.09
20	457450	2618690	500	2.81	1406	.44	6.19	.08	1.12	.22	.31	.71	1.00
21	457450	2618710	3000	2.80	8408	.37	31.11	.09	7.57	.20	1.68	.79	6.64
22	457450	2618730	4000	2.80	11200	.28	31.36	.09	10.08	.19	2.13	.91	10.19
23	457450	2618750	1000	2.80	2800	.24	6.72	.09	2.52	.17	.48	1.00	2.80
24	457450	2618770	1000	2.80	2800	.26	7.28	.12	3.36	.25	.70	1.04	2.91
25	457450	2618790	4000	2.80	11210	.34	38.11	.20	22.42	.46	5.16	1.05	11.77
26	457470	2618790	2000	2.81	5624	.41	23.06	.14	7.87	.50	2.81	1.04	5.85
27	457490	2618810	3500	2.85	9975	.67	66.83	.06	5.98	.74	7.38	1.06	10.57
28	457490	2618830	1500	2.89	4332	.96	41.59	.04	1.73	.95	4.12	1.07	4.64
29	457510	2618810	2500	2.82	7054	.49	34.56	.03	2.12	.71	5.01	1.05	7.41
30	457510	2618830	500	2.86	1430	.79	11.30	.03	.43	.87	1.24	1.07	1.53
			74420		210157		1022.45		198.91		144.93		199.86

Geological Ore Reserve
Rakah : 540 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457390	2618830	3000	2.84	8522	.64	54.54	.13	11.08	.82	6.99	1.21	10.31
2	457390	2618850	2000	2.83	5662	.56	31.71	.12	6.79	.94	5.32	1.21	6.85
3	457410	2618710	2668	2.80	7470	.23	17.18	.12	8.96	.44	3.29	1.21	9.04
4	457410	2618730	4000	2.80	11200	.25	28.00	.23	25.76	.48	5.38	1.21	13.55
5	457410	2618790	2000	2.80	5600	.20	11.20	.17	9.52	.84	4.70	1.21	6.78
6	457410	2618810	4000	2.80	11200	.27	30.24	.11	12.32	1.18	13.22	1.21	13.55
7	457410	2618830	1064	2.80	2979	.24	7.15	.09	2.68	1.44	4.29	1.21	3.60
8	457410	2618850	1000	2.81	2812	.41	11.53	.11	3.09	1.21	3.40	1.21	3.40
9	457430	2618710	4000	2.80	11200	.25	28.00	.10	11.20	.42	4.70	1.21	13.55
10	457430	2618730	4000	2.81	11248	.37	41.62	.37	41.62	.44	4.95	1.21	13.61
11	457430	2618750	500	2.82	1411	.47	6.63	.61	8.61	.46	.65	1.21	1.71
12	457430	2618790	4000	2.81	11248	.44	49.49	.32	35.99	.76	8.55	1.21	13.61
13	457430	2618810	4000	2.81	11248	.40	44.99	.14	15.75	1.21	13.61	1.21	13.61
14	457430	2618830	3000	2.80	8408	.35	29.43	.10	8.41	1.40	11.77	1.21	10.17
15	457450	2618710	2000	2.80	5600	.28	15.68	.21	11.76	.42	2.35	1.21	6.78
16	457450	2618730	4000	2.82	11286	.47	53.04	.48	54.17	.43	4.85	1.21	13.66
17	457450	2618750	1500	2.84	4261	.64	27.27	.73	31.10	.44	1.87	1.21	5.16
18	457450	2618790	4000	2.85	11400	.68	77.52	.19	21.66	.73	8.32	1.21	13.79
19	457450	2618810	4000	2.83	11324	.58	65.68	.18	20.38	1.05	11.89	1.21	13.70
20	457450	2618830	2000	2.83	5662	.53	30.01	.11	6.23	1.28	7.25	1.21	6.85
21	457470	2618730	2000	2.82	5643	.48	27.09	.49	27.65	.46	2.60	1.21	6.83
22	457470	2618750	544	2.87	1561	.81	12.64	.85	13.27	.50	.78	1.21	1.89
23	457470	2618770	500	2.86	1430	.76	10.87	.58	8.29	.61	.87	1.21	1.73
24	457470	2618790	2668	2.86	7629	.72	54.93	.32	24.41	.81	6.18	1.21	9.23
25	457470	2618810	4000	2.85	11400	.69	78.66	.16	18.24	1.01	11.51	1.21	13.79
26	457470	2618830	2000	2.85	5700	.68	38.76	.11	6.27	1.19	6.78	1.21	6.90
27	457490	2618750	2000	2.84	5681	.64	36.36	.59	33.52	.55	3.12	1.21	6.87
28	457490	2618770	2000	2.86	5719	.74	42.32	.54	30.88	.69	3.95	1.21	6.92
29	457490	2618790	332	2.86	949	.75	7.12	.32	3.04	.82	.78	1.21	1.15
30	457490	2618810	3668	2.86	10489	.74	77.62	.12	12.59	.99	10.38	1.21	12.69
31	457490	2618830	2000	2.86	5719	.74	42.32	.08	4.58	1.13	6.46	1.21	6.92
32	457510	2618810	1332	2.86	3809	.75	28.57	.12	4.57	.97	3.69	1.21	4.61
33	457510	2618830	2000	2.86	5719	.75	42.89	.08	4.58	1.09	6.23	1.21	6.92
			81776		231188		1161.04		538.97		190.70		279.74

Geological Ore Reserve
Rakah : 530 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457370	2618770	800	2.80	2242	.44	9.86	.04	.90	.26	.58	.37	.83
2	457390	2618730	1000	2.83	2831	.56	15.85	.03	.85	.63	1.78	.44	1.25
3	457390	2618750	3000	2.84	8522	.66	56.24	.03	2.56	.47	4.01	.41	3.49
4	457390	2618770	840	2.82	2370	.51	12.09	.04	.95	.24	.57	.37	.88
5	457390	2618830	1500	2.80	4200	.25	10.50	.08	3.36	.62	2.60	.42	1.76
6	457390	2618850	1352	2.80	3789	.30	11.37	.08	3.03	.74	2.80	.43	1.63
7	457410	2618710	1000	2.80	2803	.34	9.53	.03	.84	.95	2.66	.50	1.40
8	457410	2618730	4000	2.84	11362	.62	70.44	.03	3.41	.91	10.34	.49	5.57
9	457410	2618750	2668	2.89	7705	.94	72.43	.03	2.31	.91	7.01	.49	3.78
10	457410	2618790	800	2.83	2265	.67	15.17	.02	.45	.96	2.17	.48	1.09
11	457410	2618810	2800	2.80	7847	.45	35.31	.04	3.14	1.07	8.40	.48	3.77
12	457410	2618830	4000	2.83	11324	.54	61.15	.07	7.93	1.25	14.16	.47	5.32
13	457410	2618850	2000	2.82	5643	.45	25.39	.08	4.51	1.01	5.70	.46	2.60
14	457430	2618710	664	2.80	1859	.23	4.28	.03	.56	1.18	2.19	.55	1.02
15	457430	2618730	4000	2.84	11362	.65	73.85	.03	3.41	1.25	14.20	.56	6.36

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
16	457430	2618750	332	2.91	965	1.13	10.91	.02	.19	1.35	1.30	.57	.55
17	457430	2618790	2000	2.87	5738	.88	50.49	.03	1.72	1.29	7.40	.56	3.21
18	457430	2618810	4000	2.83	11324	.61	69.08	.05	5.66	1.28	14.49	.53	6.00
19	457430	2618830	4000	2.84	11362	.62	70.44	.06	6.82	1.27	14.43	.51	5.79
20	457430	2618850	1500	2.84	4261	.62	26.42	.07	2.98	1.22	5.20	.49	2.09
21	457450	2618710	2000	2.80	5605	.38	21.30	.03	1.68	1.34	7.51	.58	3.25
22	457450	2618730	4000	2.84	11362	.65	73.85	.03	3.41	1.42	16.13	.59	6.70
23	457450	2618790	4000	2.83	11324	.57	64.55	.04	4.53	1.45	16.42	.59	6.68
24	457450	2618810	4000	2.86	11438	.74	84.64	.05	5.72	1.39	15.90	.57	6.52
25	457450	2618830	4000	2.87	11476	.80	91.81	.06	6.89	1.33	15.26	.55	6.31
26	457450	2618850	500	2.87	1435	.83	11.91	.07	1.00	1.25	1.79	.53	.76
27	457470	2618710	500	2.81	1406	.46	6.47	.03	.42	1.45	2.04	.60	.84
28	457470	2618730	2000	2.83	5662	.59	33.41	.03	1.70	1.48	8.38	.60	3.40
29	457470	2618790	3000	2.86	8579	.79	67.77	.04	3.43	1.48	12.70	.61	5.23
30	457470	2618810	4000	2.88	11514	.89	102.47	.05	5.76	1.44	16.58	.59	6.79
31	457470	2618830	4000	2.90	11590	1.05	121.69	.06	6.95	1.37	15.88	.57	6.61
32	457490	2618790	1000	2.89	2888	.94	27.15	.05	1.44	1.52	4.39	.61	1.76
33	457490	2618810	4000	2.91	11628	1.12	130.23	.06	6.98	1.47	17.09	.60	6.98
34	457490	2618830	4000	2.93	11704	1.24	145.13	.06	7.02	1.42	16.62	.59	6.91
35	457510	2618810	2000	2.93	5852	1.21	70.81	.06	3.51	1.53	8.95	.61	3.57
36	457510	2618830	4000	2.93	11704	1.25	146.30	.06	7.02	1.48	17.32	.60	7.02
37	457510	2618850	1000	2.93	2926	1.25	36.58	.06	1.76	1.43	4.18	.59	1.73
			90256		257865		1946.87		124.80		319.17		139.45

Geological Ore Reserve
Rakah : 520 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457430	2618790	332	2.81	934	.43	4.01	.04	.37	.34	.32	.68	.63
2	457430	2618810	2668	2.81	7502	.39	29.26	.04	3.00	.34	2.55	.68	5.10
3	457430	2618830	4000	2.80	11210	.33	36.99	.05	5.61	.34	3.81	.68	7.62
4	457430	2618850	4000	2.80	11200	.30	33.60	.05	5.60	.34	3.81	.68	7.62
5	457430	2618870	2000	2.80	5605	.35	19.62	.05	2.80	.34	1.91	.68	3.81
6	457450	2618790	676	2.82	1907	.48	9.16	.03	.57	.34	.65	.68	1.30
7	457450	2618810	4000	2.82	11286	.51	57.56	.04	4.51	.34	3.84	.68	7.67
8	457450	2618830	4000	2.83	11324	.53	60.02	.04	4.53	.34	3.85	.68	7.70
9	457450	2618850	4000	2.83	11324	.53	60.02	.05	5.66	.34	3.85	.68	7.70
10	457450	2618870	1000	2.83	2831	.53	15.00	.05	1.42	.34	.96	.68	1.93
11	457470	2618790	2000	2.83	5662	.58	32.84	.04	2.26	.34	1.93	.68	3.85
12	457470	2618810	4000	2.85	11400	.68	77.52	.04	4.56	.34	3.88	.68	7.75
13	457470	2618830	4000	2.86	11438	.77	88.07	.05	5.72	.34	3.89	.68	7.78
14	457470	2618850	3000	2.86	8579	.76	65.20	.05	4.29	.34	2.92	.68	5.83
15	457490	2618790	668	2.85	1904	.73	13.90	.04	.76	.34	.65	.68	1.29
16	457490	2618810	3832	2.87	10994	.84	92.35	.05	5.50	.34	3.74	.68	7.48
17	457490	2618830	4000	2.88	11514	.93	107.08	.05	5.76	.34	3.91	.68	7.83
18	457490	2618850	3000	2.87	8607	.88	75.74	.05	4.30	.34	2.93	.68	5.85
19	457510	2618810	1500	2.88	4318	.91	39.29	.05	2.16	.34	1.47	.68	2.94
20	457510	2618830	4000	2.88	11514	.94	108.23	.05	5.76	.34	3.91	.68	7.83
21	457510	2618850	4000	2.88	11514	.93	107.08	.05	5.76	.34	3.91	.68	7.83
22	457510	2618870	1000	2.88	2879	.90	25.91	.05	1.44	.34	.98	.68	1.96
			61676		175445		1158.44		82.34		59.65		119.30

Geological Ore Reserve
Rakah : 510 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457450	2618850	1000	2.81	2812	.40	11.25	.12	3.37	.42	1.18	.00	.00
2	457450	2618870	2776	2.81	7806	.42	32.79	.14	10.93	.42	3.28	.00	.00
3	457450	2618890	1000	2.81	2812	.40	11.25	.13	3.66	.42	1.18	.00	.00
4	457470	2618810	1000	2.83	2831	.56	15.85	.08	2.26	.42	1.19	.00	.00
5	457470	2618830	3000	2.83	8493	.56	47.56	.09	7.64	.42	3.57	.00	.00
6	457470	2618850	2000	2.83	5662	.53	30.01	.11	6.23	.42	2.38	.00	.00
7	457470	2618870	4000	2.82	11286	.47	53.04	.13	14.67	.42	4.74	.00	.00
8	457490	2618810	2000	2.85	5700	.65	37.05	.08	4.56	.42	2.39	.00	.00
9	457490	2618830	3000	2.85	8550	.67	57.28	.08	6.84	.42	3.59	.00	.00
10	457490	2618850	2000	2.84	5681	.61	34.65	.10	5.68	.42	2.39	.00	.00
11	457490	2618870	4000	2.83	11324	.54	61.15	.11	12.46	.42	4.76	.00	.00
12	457510	2618810	1500	2.85	4275	.67	28.64	.08	3.42	.42	1.80	.00	.00
13	457510	2618830	2500	2.85	7125	.66	47.02	.08	5.70	.42	2.99	.00	.00
14	457510	2618850	1000	2.84	2841	.64	18.18	.09	2.56	.42	1.19	.00	.00
15	457510	2618870	4000	2.84	11362	.59	67.04	.10	11.36	.42	4.77	.00	.00
16	457510	2618890	1000	2.83	2831	.53	15.00	.12	3.40	.42	1.19	.00	.00
			35776		101391		567.77		104.74		42.58		.00

Geological Ore Reserve
Rakah : 500 m
Cut-off grade : 0.20 Cu

No	X(E)	Y(N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457390	2618830	1500	2.85	4275	.68	29.07	.07	2.99	.62	2.65	.00	.00
2	457390	2618850	4000	2.85	11400	.70	79.80	.06	6.84	.62	7.07	.00	.00
3	457410	2618830	1500	2.85	4275	.68	29.07	.08	3.42	.62	2.65	.00	.00
4	457410	2618850	1000	2.85	2850	.70	19.95	.06	1.71	.62	1.77	.00	.00
5	457430	2618830	1000	2.84	2841	.67	19.03	.09	2.56	.62	1.76	.00	.00
6	457450	2618810	1000	2.84	2841	.62	17.61	.12	3.41	.62	1.76	.00	.00
7	457450	2618830	2000	2.84	5681	.64	36.36	.11	6.25	.62	3.52	.00	.00
8	457450	2618870	2000	2.85	5700	.71	40.47	.05	2.85	.62	3.53	.00	.00
9	457450	2618890	4000	2.85	11400	.71	80.94	.05	5.70	.62	7.07	.00	.00
10	457470	2618810	3000	2.83	8493	.59	50.11	.15	12.74	.62	5.27	.00	.00
11	457470	2618830	2000	2.84	5681	.60	34.09	.14	7.95	.62	3.52	.00	.00
12	457470	2618870	4000	2.85	11400	.68	77.52	.07	7.98	.62	7.07	.00	.00
13	457470	2618890	3000	2.85	8550	.70	59.85	.06	5.13	.62	5.30	.00	.00
14	457490	2618790	1000	2.83	2831	.57	16.14	.16	4.53	.62	1.76	.00	.00
15	457490	2618810	4000	2.83	11324	.57	64.55	.17	19.25	.62	7.02	.00	.00
16	457490	2618830	1752	2.83	4960	.56	27.78	.17	8.43	.62	3.08	.00	.00
17	457490	2618870	4000	2.84	11362	.64	72.72	.11	12.50	.62	7.04	.00	.00
18	457490	2618890	2000	2.84	5681	.67	38.06	.08	4.54	.62	3.52	.00	.00
19	457510	2618790	1000	2.83	2831	.56	15.85	.17	4.81	.62	1.76	.00	.00
20	457510	2618810	1000	2.83	2831	.56	15.85	.17	4.81	.62	1.76	.00	.00
21	457510	2618870	4000	2.84	11362	.62	70.44	.13	14.77	.62	7.04	.00	.00
22	457510	2618890	3000	2.84	8522	.65	55.39	.10	8.52	.62	5.28	.00	.00
			51752		147089		950.65		151.70		91.20		.00

Geological Ore Reserve
Rakah : 490 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457390	2618850	1000	2.80	2800	.24	6.72	.04	1.12	.00	.00	.00	.00
2	457410	2618830	2000	2.80	5600	.27	15.12	.04	2.24	.00	.00	.00	.00
3	457410	2618850	3000	2.80	8400	.23	19.32	.04	3.36	.00	.00	.00	.00
4	457430	2618830	752	2.80	2106	.23	4.84	.05	1.05	.00	.00	.00	.00
5	457450	2618810	332	2.80	930	.24	2.23	.11	1.02	.00	.00	.00	.00
6	457450	2618830	1916	2.80	5365	.22	11.80	.09	4.83	.00	.00	.00	.00
7	457470	2618810	1752	2.80	4906	.24	11.77	.15	7.36	.00	.00	.00	.00
8	457470	2618830	2000	2.80	5600	.22	12.32	.14	7.84	.00	.00	.00	.00
9	457490	2618810	3252	2.80	9106	.24	21.85	.17	15.48	.00	.00	.00	.00
10	457490	2618830	2000	2.80	5600	.24	13.44	.18	10.08	.00	.00	.00	.00
			18004		50411		119.42		54.38		.00		.00

Geological Ore Reserve
Rakah : 480 m
Cut-off grade : 0.20 Cu

No	X (E)	Y (N)	Volume	S.G.	Tonnage	Cu		Zn		Au		Ag	
						grade	content	grade	content	grade	content	grade	content
			(m3)	(t/m3)	(ton)	(%)	(ton)	(%)	(ton)	(g/t)	(kg)	(g/t)	(kg)
1	457410	2618830	1000	2.86	2860	.74	21.16	.04	1.14	.00	.00	.00	.00
2	457410	2618850	2000	2.86	5719	.74	42.32	.04	2.29	.00	.00	.00	.00
3	457430	2618830	1332	2.86	3809	.72	27.42	.05	1.90	.00	.00	.00	.00
4	457430	2618850	668	2.86	1910	.72	13.75	.05	.96	.00	.00	.00	.00
5	457450	2618830	1500	2.85	4275	.69	29.50	.07	2.99	.00	.00	.00	.00
6	457470	2618810	500	2.84	1420	.65	9.23	.10	1.42	.00	.00	.00	.00
7	457470	2618830	2000	2.84	5681	.65	36.93	.10	5.68	.00	.00	.00	.00
8	457490	2618810	1500	2.84	4261	.63	26.84	.11	4.69	.00	.00	.00	.00
9	457490	2618830	180	2.84	511	.63	3.22	.11	.56	.00	.00	.00	.00
			10680		30446		210.38		21.63		.00		.00

①: Massive or brecciated ores