60001672

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Factor Analysis - 2000
AUTHOR	K. Allen; P. Holland
DATE OF DOC(S)	2000
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project Hecla Mining Co; LBT; Dozer
COMMODITY If not obvious	gold; silver
NOTES	Factor analysis tables; correspondence; drill hole list 18 pages

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS: DD 6/4/08
Initials Date
DB: mah 7/08
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

FACTOR ANALYSIS - 2000

6000 1672 4010

6001672

MODEL 3 - 1994 ROSEBUD DH DATA

LBT AND DOZER UNITS (38 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6	7
Ag	.222	.023	.045	.134	-.057	.036	-.409
Al	.076	.193	.066	.252	.204	.020	.141
As	.250	-.041	.065	.166	.414	.024	.041
Au	.289	-.011	-.030	.345	-.182	-.098	-.151
Ba	.303	.124	-.143	-.132	-.080	.435	.014
Ca	.092	.318	-.102	-.162	-.004	-.047	.056
Co	-.185	.141	.479	.099	-.218	-.066	-.072
Cr	.444	-.035	.127	-.168	-.382	-.043	.184
Cu	.352	.007	.036	-.301	-.001	-.295	-.215
Fe	-.083	.282	.039	.214	.093	.238	.033
Hg	.060	.084	.340	-.352	.016	.482	-.077
K	.266	.201	-.226	.070	.202	-.036	.085
Mg	-.060	.330	.028	.004	-.071	-.268	-.163
Mn	.046	.354	-.151	-.196	.062	-.109	-.064
Mo	.200	-.080	.058	.403	-.174	-.083	.091
Na	.091	.390	-.239	.037	-.031	-.229	.181
Ni	.087	-.041	.408	-.110	.250	-.334	-.181
Pb	.221	.002	.176	-.020	.179	-.075	.340
Sb	.103	-.006	.084	.097	.251	.040	-.450
Se	.334	.014	.196	.152	-.014	.256	-.010
Sr	-.017	.265	.157	-.287	-.020	.028	.110
Ti	-.126	.343	.129	.299	-.075	.216	.028
V	-.114	.334	.109	.044	-.056	-.048	-.273
W	-.026	-.004	.020	-.037	.542	.046	.063
Zn	-.015	.039	.402	.056	.013	-.184	.415
VARIANCE	41.482	35.809	9.533	2.433	2.771	2.230	1.389
CUM. VAR.	41.482	77.291	86.824	89.257	92.028	94.257	95.647

APPLIED TO ALL 204 1994 DH SAMPLES

VARIANCE	24.963	39.921	11.746	1.287	2.526	1.848	2.957
CUM. VAR.	24.963	64.884	76.631	77.917	80.443	82.291	85.249

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)							
1	Cr	Cu	Se	Ba	Au	K	As	
2	Na	Mn	Ti	V	Mg	Ca	Fe	Sr
3	Co	Ni	Zn	Hg				
4	Mo	Au	Ti	Al	-Hg	-Cu	-Sr	
5	W	As	Sb	Ni	-Cr			
6	Hg	Ba	Se	-Ni	-Cu	-Mg		
7	Zn	Pb	-Sb	-Ag	-V			

MODEL 4 - 1994 ROSEBUD DRILL HOLE DATA

LBT AND DOZER UNITS (38 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6	7
Ag	.135	.012	.123	.198	.082	.394	-.185
Al	.030	.229	.139	.305	.066	-.115	.215
As	.232	-.046	.233	.176	.060	.069	.477
Au	.284	-.034	.012	.377	-.062	.134	-.250
Ba	.362	.132	-.061	-.117	.511	.019	-.041
Ca	.072	.362	-.028	-.071	-.047	-.022	-.107
Cr	.521	-.059	.154	-.246	-.002	-.208	-.306
Cu	.325	-.001	.170	-.256	-.325	.266	-.119
Fe	-.184	.333	.069	.339	.299	-.033	-.042
Hg	-.125	.126	.433	-.241	.507	.081	-.166
K	.343	.221	-.103	.055	.008	.036	.344
Mg	-.161	.379	.033	.102	-.273	.147	-.235
Mn	.025	.397	-.079	-.094	-.088	.094	-.076
Mo	.184	-.107	.080	.505	-.038	-.209	-.395
Na	.173	.441	-.230	.006	-.217	-.054	.137
Ni	-.084	-.032	.512	-.058	-.322	.205	.094
Pb	.210	.015	.281	-.004	-.047	-.304	.291
Sb	-.017	-.009	.198	.158	.058	.503	.143
Sr	-.101	.320	.199	-.244	.004	-.086	-.093
Zn	-.118	.072	.405	.109	-.161	-.462	-.045
VARIANCE	29.384	36.030	21.914	3.531	2.441	1.655	1.279
CUM. VAR.	29.384	65.414	87.328	90.859	93.299	94.954	96.233

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)					
1	Cr	Ba	K	Cu	Au	
2	Na	Mn	Mg	Ca	Fe	Sr
3	Ni	Hg	Zn	Pb		
4	Mo	Au	Fe	Al	-Cu	
5	Ba	Hg	Fe	-Cu	-Ni	-Mg
6	Sb	Ag	Cu	-Zn	-Pb	
7	As	K	Pb	-Mo	-Cr	-Au

MODEL 3 - 1994 ROSEBUD DH DATA

LBT AND DOZER UNITS (38 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6	7
Ag	.222	.023	.045	.134	-.057	.036	-.409
Al	.076	.193	.066	.252	.204	.020	.141
As	.250	-.041	.065	.166	.414	.024	.041
Au	.289	-.011	-.030	.345	-.182	-.098	-.151
Ba	.303	.124	-.143	-.132	-.080	.435	.014
Ca	.092	.318	-.102	-.162	-.004	-.047	.056
Co	-.185	.141	.479	.099	-.218	-.066	-.072
Cr	.444	-.035	.127	-.168	-.382	-.043	.184
Cu	.352	.007	.036	-.301	-.001	-.295	-.215
Fe	-.083	.282	.039	.214	.093	.238	.033
Hg	.060	.084	.340	-.352	.016	.482	-.077
K	.266	.201	-.226	.070	.202	-.036	.085
Mg	-.060	.330	.028	.004	-.071	-.268	-.163
Mn	.046	.354	-.151	-.196	.062	-.109	-.064
Mo	.200	-.080	.058	.403	-.174	-.083	.091
Na	.091	.390	-.239	.037	-.031	-.229	.181
Ni	.087	-.041	.408	-.110	.250	-.334	-.181
Pb	.221	.002	.176	-.020	.179	-.075	.340
Sb	.103	-.006	.084	.097	.251	.040	-.450
Se	.334	.014	.196	.152	-.014	.256	-.010
Sr	-.017	.265	.157	-.287	-.020	.028	.110
Ti	-.126	.343	.129	.299	-.075	.216	.028
V	-.114	.334	.109	.044	-.056	-.048	-.273
W	-.026	-.004	.020	-.037	.542	.046	.063
Zn	-.015	.039	.402	.056	.013	-.184	.415
VARIANCE	41.482	35.809	9.533	2.433	2.771	2.230	1.389
CUM. VAR.	41.482	77.291	86.824	89.257	92.028	94.257	95.647

APPLIED TO ALL 204 1994 DH SAMPLES

VARIANCE	24.963	39.921	11.746	1.287	2.526	1.848	2.957
CUM. VAR.	24.963	64.884	76.631	77.917	80.443	82.291	85.249

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)							
1	Cr	Cu	Se	Ba	Au	K	As	
2	Na	Mn	Ti	V	Mg	Ca	Fe	Sr
3	Co	Ni	Zn	Hg				
4	Mo	Au	Ti	Al	-Hg	-Cu	-Sr	
5	W	As	Sb	Ni	-Cr			
6	Hg	Ba	Se	-Ni	-Cu	-Mg		
7	Zn	Pb	-Sb	-Ag	-V			

MODEL 5 - ROSEBUD 72 RS DRILL HOLES SAMPLES GREATER THAN 0.02 OZ/T Au

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6	7
Ag	.103	.120	.463	-.265	-.260	-.144	-.160
Al	.068	-.008	-.004	.051	.080	.179	.046
As	.314	.063	.323	.022	.226	-.286	.156
Au	.318	.112	-.227	.452	-.333	-.200	-.359
Ba	-.178	.315	.009	.042	-.474	.119	.529
Ca	.427	-.118	-.017	-.233	-.139	.191	-.051
Co	.101	.155	.129	.127	.090	.104	-.019
Cr	.235	.439	-.067	-.273	.233	.103	-.124
Cu	-.064	.422	.035	.216	-.347	-.026	-.259
Fe	.052	.056	.115	.072	.284	.170	-.225
Hg	-.159	-.106	.409	.168	-.086	.312	-.030
K	.192	-.046	-.114	.101	.046	.254	.139
Mg	.416	.166	-.121	-.026	.056	.003	.338
Mn	.200	.004	.013	-.273	-.212	.473	-.338
Mo	-.105	.083	.116	.389	.226	.036	-.191
Na	.050	-.055	.013	.104	.034	.144	-.014
Ni	-.119	.473	.111	.108	.218	.063	.008
Pb	.156	-.184	.115	.313	.104	.162	-.002
Sb	-.052	-.043	.491	-.141	-.122	-.036	-.019
Se	.224	.060	.304	.113	.112	-.193	.140
Sr	.296	.047	.029	.176	-.122	.006	.229
V	-.155	.315	-.055	-.042	.182	.358	.108
Zn	.085	-.206	.148	.269	-.105	.345	.182
VARIANCE	39.509	19.211	19.189	4.681	.735	10.308	3.164
CUM. VAR.	39.509	58.720	77.909	82.591	83.326	93.634	96.798

APPLIED TO 2678 RS DRILL HOLE SAMPLES

VARIANCE	17.238	11.337	8.147	.910	1.531	37.472	7.306
CUM. VAR.	17.238	28.575	36.722	37.632	39.163	76.635	83.941

APPLIED TO 204 ROSEBUD "94" DRILL HOLE SAMPLES

VARIANCE	18.807	16.101	2.842	1.343	.790	34.038	13.932
CUM. VAR.	18.807	34.908	37.750	39.093	39.883	73.921	87.853

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)						
1	Ca	Mg	Au	As	Sr	(Cr)	
2	Ni	Cr	Cu	Ba	V		
3	Sb	Ag	Hg	As	Se		
4	Au	Mo	Pb	Zn	-Cr	-Mn	-Ag
5	Fe	-Ba	-Cu	-Au	-Ag		
6	Mn	V	Zn	Hg	K	-As	

7 Ba Mg -Au -Mn -Cu

MODEL 6 - ROSEBUD 113 RS DRILL HOLES SAMPLES GREATER THAN 0.01 OZ/T Au

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6
Ag	.001	-.251	.512	.239	-.033	-.082
Al	.064	.129	-.003	-.028	.109	.340
As	.363	-.129	.400	-.079	-.126	.041
Au	.323	-.242	-.220	.406	.514	-.178
Ba	-.058	.075	.003	.238	.063	.486
Ca	.403	.099	-.051	.030	-.256	-.161
Co	-.010	.342	.200	.082	.108	-.138
Cr	.123	.070	.033	.451	-.331	.286
Cu	-.095	.038	.023	.557	.213	-.129
Fe	-.046	.344	.105	.041	.114	-.146
Hg	-.177	.257	.288	-.108	.224	.077
K	.331	-.005	-.160	-.008	.106	.540
Mg	.222	.123	-.010	.054	-.156	-.025
Mn	.269	.266	-.067	.197	-.226	-.298
Mo	-.006	.159	.060	-.002	.365	.071
Na	.060	.212	-.077	-.070	.001	.054
Ni	-.104	.262	.094	.167	-.056	-.006
Pb	.286	.095	.009	-.176	.280	.040
Sb	-.069	-.100	.415	.021	.034	.121
Se	.233	-.075	.408	-.046	.078	.035
Sr	.268	.202	.036	-.101	-.114	.042
V	-.186	.386	-.004	.167	-.123	.110
Zn	.208	.289	.055	-.183	.266	-.126
VARIANCE	35.016	20.019	24.007	11.268	1.716	3.454
CUM. VAR.	35.016	55.036	79.043	90.310	92.027	95.481

APPLIED TO 2678 RS DRILL HOLE SAMPLES

VARIANCE	19.208	48.779	8.126	3.743	2.577	3.908
CUM. VAR.	19.208	67.987	76.113	79.856	82.433	86.341

APPLIED TO 204 ROSEBUD "94" DRILL HOLE SAMPLES

VARIANCE	21.299	34.910	3.941	6.236	.488	22.613
CUM. VAR.	21.299	56.209	60.150	66.386	66.874	89.487

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)							
1	Ca	As	K	Au	Pb	Mn	Sr	
2	V	Fe	Co	Zn	Mn	Ni	Hg	-Ag
3	Ag	Sb	Se	As	Hg			
4	Cu	Cr	Au					
5	Au	Mo	Pb	Zn	-Cr	-Ca		

6	K	Ba	Al	Cr	-Mn

Kurt Allen

From: Peter T. Holland [pholland@ecentral.com]
Sent: Wednesday, May 24, 2000 7:05 PM
To: kallen@hecla-mining.com
Subject: Rosebud geochem

MODELS.ZIP

Kurt - the attached file (MODELS.ZIP) contains three different factor models (in MS-Word documents) based on samples from drill holes having a "94" prefix.

There was a total of only 204 samples in the "94" drill holes. As a first step I therefore ran factor analysis on all the samples combined just to see what would fall out. The result (MODEL 1) was a five-factor model which accounts for about 94 percent of total variance. The first two factors alone, however, account for over 88 percent of total variance. I take these factors, both of which appear to be highly generalized, as related to (1) country rock lithologies and (2) mineralization. I believe that Cr on the second factor is actually related to (and serves as a proxy for) silica (in every study I have ever done Cr shows up in association with high-silica rocks). The remaining factors seem more obtuse (although I have not compared loadings to lithologies). Factors 3 and 4 could have a (relatively) basic rock association and Factor 5 could be related to alteration. In any case, I thought this model was not very useful and decided to develop models which might focus more directly on mineralization.

There were only 5 samples which ran greater 0.1 Au (after merging the assay data into the ICP sample intervals on a weighted average basis) in the "94" drill hole data - so that did not seem to be a very useful screen. I therefore ran factor anaylsis on the the 38 samples which were logged as LBT or DOZER to produce MODEL 2. Here too I obtained generalized mineralization and country rock factors which accounted for 43 and 35 percent of total variance respectively. In this model a third factor accounted for almost 11 percent of total variance but its geologic significance is unclear (Hg tends to be a bad actor in these models but people usually want to see it anyhow). The significance of Factors 4 and 5 is also uncertain.

I decided to use the mineralization factor from MODEL 2 as screen in selecting samples for MODEL 3. I therefore applied MODEL 2 to all 204 "94" drill hole samples and then selected those samples which fell in the top quartile for MODEL 2/Factor 1 loadings (51 samples). In the major factors (1/2/3) MODEL 3 turned out to be very much like MODEL 2. This time, however, the minor factors seemed as though each might in some way be related to mineralization or alteration. Whether loadings for these factors (all of which are minor) might zone in some meaningful way in association with ore occurrences at Rosebud is uncertain. I do not feel very enthusiastic about MODEL 3 per se but would, of course, feel differently if loadings actually did fall into zones.

The next step would be to look at the distributions of loadings in relationship to the geology in the "94" drill holes. I can send you a table of loadings that you could use as the basis for making plots if you thought it was warranted. A favorable result would justify application of MODEL 3 to "RS" drill hole samples (many of which are going to require mathematical compositing). It is also worth considering in MODEL 3 that the minor factors are not rationally zoned (at least in framework of our study) but that zoning in Factor 1 loadings by themselves might have some significance.

After you look over these factor models we can discuss the next step. I will be out of my office most of tomorrow morning (Thursday, May 25) but should be in for the afternoon and all day on Friday.

Regards, Peter

MODEL 1 - 1994 ROSEBUD DH DATA (204 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5
Ag	-.111	.341	.049	-.034	-.223
Al	.266	.203	-.223	.046	.263
As	-.088	.347	-.174	.137	-.161
Au	-.065	.266	-.027	-.125	-.080
Ba	.194	.178	-.179	-.326	.031
Ca	.363	.008	.049	-.007	-.266
Co	-.034	.004	.485	.059	.244
Cr	-.064	.447	.024	.025	-.403
Cu	.055	.160	.259	-.355	.057
Fe	.190	.121	.191	.141	.096
Hg	-.028	.135	.116	-.019	.197
K	.319	.151	-.247	-.084	.179
Mg	.181	.112	.001	.545	-.073
Mn	.411	-.076	.148	-.060	-.217
Mo	-.059	.207	.168	-.094	-.275
Na	.471	-.122	.050	-.190	-.274
Ni	-.042	.102	.375	-.085	.098
Pb	.203	.146	-.162	-.112	.348
Sb	-.079	.181	.225	-.100	.036
Se	-.066	.421	-.108	.104	.282
Sr	.130	.070	.124	-.071	.052
Ti	.249	.088	.064	.378	.090
V	.116	.021	.303	.359	.005
W	.004	.027	.119	-.069	.058
Zn	.125	.082	.246	-.175	.207
VARIANCE	48.320	39.872	2.537	1.457	2.384
CUM. VAR.	48.320	88.193	90.730	92.187	94.571

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)						
1	Na	Mn	Ca	K	Al		
2	Cr	Se	As	Ag	Au		
3	Co	Ni	V	Cu			
4	Mg	Ti	V	-Cu	-Ba		
5	Pb	Se	Al	-Cr	-Mo	-Na	-Ca

MODEL 2 - 1994 ROSEBUD DH DATA

LBT AND DOZER UNITS (38 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5
Ag	.174	-.002	.135	.218	-.024
Al	.127	.205	.017	.184	.206
As	.289	-.033	.066	.144	.372
Au	.275	-.031	-.038	.254	-.057
Ba	.312	.132	-.065	.076	-.299
Ca	.089	.314	-.091	-.180	-.021
Co	-.206	.135	.440	.058	-.124
Cr	.420	-.047	.096	-.255	-.372
Cu	.281	-.027	.103	-.358	.074
Fe	-.040	.298	.034	.288	.018
Hg	.044	.096	.442	-.052	-.251
K	.295	.202	-.226	.015	.186
Mg	-.094	.310	.031	-.089	.068
Mn	.027	.344	-.112	-.201	.066
Mo	.222	-.083	-.020	.253	-.056
Na	.111	.387	-.295	-.134	.060
Ni	.046	-.061	.423	-.207	.361
Pb	.265	.015	.101	-.149	.161
Sb	.067	-.024	.195	.221	.245
Se	.349	.016	.216	.229	-.105
Sr	-.023	.269	.161	-.261	-.085
Ti	-.089	.357	.101	.342	-.101
V	-.148	.319	.153	.081	.002
W	.015	.014	.036	.003	.447
Zn	.029	.055	.260	-.157	.085
VARIANCE	43.279	35.142	10.857	2.232	1.815
CUM. VAR.	43.279	78.421	89.278	91.510	93.325

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)							
1	Cr	Se	Ba	K	As	Cu	Au	Pb
2	Na	Ti	Mn	V	Ca	Mg	Fe	Sr
3	Hg	Co	Ni	Zn	-Na			
4	Ti	Fe	Au	Mo	-Cu	-Sr	-Cr	
5	W	As	Ni	-Cr	-Ba	-Hg		

MODEL 3 - 1994 ROSEBUD DH DATA

TOP 25% IN MODEL 2/F1 LOADINGS (51 SAMPLES)

- Data log-transformed, variables scaled 0 to 1

VARIMAX FACTOR SCORE MATRIX

VARIABLE	1	2	3	4	5	6	7
Ag	.222	.023	.045	.134	-.057	.036	-.409
Al	.076	.193	.066	.252	.204	.020	.141
As	.250	-.041	.065	.166	.414	.024	.041
Au	.289	-.011	-.030	.345	-.182	-.098	-.151
Ba	.303	.124	-.143	-.132	-.080	.435	.014
Ca	.092	.318	-.102	-.162	-.004	-.047	.056
Co	-.185	.141	.479	.099	-.218	-.066	-.072
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K	.266	.201	-.226	.070	.202	-.036	.085
Mg	-.060	.330	.028	.004	-.071	-.268	-.163
Mn	.046	.354	-.151	-.196	.062	-.109	-.064
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Na	.091	.390	-.239	.037	-.031	-.229	.181
Ni	.087	-.041	.408	-.110	.250	-.334	-.181
Pb	.221	.002	.176	-.020	.179	-.075	.340
Sb	.103	-.006	.084	.097	.251	.040	-.450
Se	.334	.014	.196	.152	-.014	.256	-.010
Sr	-.017	.265	.157	-.287	-.020	.028	.110
Ti	-.126	.343	.129	.299	-.075	.216	.028
V	-.114	.334	.109	.044	-.056	-.048	-.273
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Zn	-.015	.039	.402	.056	.013	-.184	.415
VARIANCE	41.482	35.809	9.533	2.433	2.771	2.230	1.389
CUM. VAR.	41.482	77.291	86.824	89.257	92.028	94.257	95.647

FACTOR	ELEMENT ASSEMBLAGE (+0.25/-0.25)							
1	Cr	Cu	Se	Ba	Au	K	As	
2	Na	Mn	Ti	V	Mg	Ca	Fe	Sr
3	Co	Ni	Zn	Hg				
4	Mo	Au	Ti	Al	-Hg	-Cu	-Sr	
5	W	As	Sb	Ni	-Cr			
6	Hg	Ba	Se	-Ni	-Cu	-Mg		
7	Zn	Pb	-Sb	-Ag	-V			

DRILL_HOLE
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