60000710

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 - Hole No. RS-483-98
AUTHOR	K. Allen
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; Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Geochemistry; receipt; assay; total depth 1605' 45 p.

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 4/29/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

RS-483

60600710
4010

INSPECTORATE

ROCKY MOUNTAIN GEOCHEMICAL

A MEMBER OF THE INSPECTORATE GROUP OF COMPANIES
840 GREG STREET • SPARKS, NEVADA 89431 • PHONE (775) 359-6311 • FAX (775) 359-2944

Preliminary Analysis

DATE: Tuesday, January 25, 2000

JOB NO: 100-00-77

CLIENT: Hecla (Rosebud Mine)
P.O. Box 2610
Winnemucca, NV 89446 US

INVOICE NO:

CLIENT ORDER NO: RS-483

REPORT ON: 323 RC

SUBMITTED BY: Kurt Allen

DATE RECIEVED: Friday, January 07, 2000

ANALYSES: Rosebud Mine Development Protocol

ANALYTICAL METHODS: FA/AA, FA/GRAV

REMARKS:

CC: RMG File

E-MAILED TO:

0000710

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:10 NO.435 03/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
1	RS-483 0'-5'	71	0.002		0.4	0.013	
2	RS-483 5'-10'	60	0.002		0.2	0.006	
3	RS-483 10'-15'	21	0.001		0.3	0.009	
4	RS-483 15'-20'	-2	-0.001		0.2	0.006	
5	RS-483 20'-25'	41	0.001		0.5	0.016	
6	RS-483 25'-30'	51	0.001		0.3	0.010	
7	RS-483 30'-35'	34	0.001		0.3	0.008	
8	RS-483 35'-40'	53	0.002		0.8	0.023	
9	RS-483 40'-45'	5	-0.001		0.3	0.008	
10	RS-483 45'-50'	45	0.001		0.2	0.007	
11	RS-483 50'-55'	51	0.001		0.2	0.007	
12	RS-483 55'-60'	237	0.007		0.7	0.021	
13	RS-483 60'-65'	55	0.002		0.3	0.008	
14	RS-483 65'-70'	16	-0.001		0.3	0.010	
15	RS-483 70'-75'	16	-0.001		0.3	0.009	
16	RS-483 75'-80'	7	-0.001		0.3	0.009	
17	RS-483 80'-85'	10	-0.001		0.2	0.006	
18	RS-483 85'-90'	M	M	M	M		
19	RS-483 90'-95'	43	0.001		1.7	0.051	
20	RS-483 95'-100'	8	-0.001		0.1	0.004	
21	RS-483 100'-105'	2	0.001		0.2	0.006	
22	RS-483 105'-110'	30	-0.001		0.2	0.005	
23	RS-483 110'-115'	8	-0.001		0.1	0.004	
24	RS-483 115'-120'	13	-0.001		0.1	0.004	
25	RS-483 120'-125'	5	-0.001		0.2	0.007	
26	RS-483 125'-130'	13	-0.001		0.8	0.022	
27	RS-483 130'-135'	67	0.002		0.5	0.014	
28	RS-483 135'-140'	100	0.003		0.6	0.018	
29	RS-483 140'-145'	5	-0.001		0.2	0.007	
30	RS-483 145'-150'	10	-0.001		0.7	0.019	
31	RS-483 150'-155'	41	0.001		0.3	0.009	
32	RS-483 155'-160'	4	-0.001		0.4	0.013	
33	RS-483 160'-165'	-2	-0.001		0.1	0.003	

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
34	RS-483 165'-170'	-2	-0.001		0.3	0.009	
35	RS-483 170'-175'	-2	-0.001		0.1	0.004	
36	RS-483 175'-180'	-2	-0.001		0.3	0.010	
37	RS-483 180'-185'	-2	-0.001		0.2	0.007	
38	RS-483 185'-190'	-2	-0.001		0.2	0.005	
39	RS-483 190'-195'	-2	-0.001		0.2	0.007	
40	RS-483 195'-200'	-2	-0.001		0.1	0.004	
41	RS-483 200'-205'	-2	-0.001		0.2	0.007	
42	RS-483 205'-210'	-2	-0.001		0.1	0.004	
43	RS-483 210'-215'	-2	-0.001		0.3	0.008	
44	RS-483 215'-220'	-2	-0.001		0.3	0.009	
45	RS-483 220'-225'	-2	-0.001		0.2	0.006	
46	RS-483 225'-230'	-2	-0.001		0.3	0.008	
47	RS-483 230'-235'	-2	-0.001		0.2	0.005	
48	RS-483 235'-240'	-2	-0.001		0.2	0.005	
49	RS-483 240'-245'	-2	-0.001		0.6	0.017	
50	RS-483 245'-250'	5	-0.001		0.1	0.004	
51	RS-483 250'-255'	-2	-0.001		0.1	0.003	
52	RS-483 255'-260'	13	-0.001		0.3	0.008	
53	RS-483 260'-265'	16	-0.001		0.4	0.012	
54	RS-483 265'-270'	-2	-0.001		0.2	0.007	
55	RS-483 270'-275'	-2	-0.001		0.2	0.006	
56	RS-483 275'-280'	-2	-0.001		0.1	0.003	
57	RS-483 280'-285'	-2	-0.001		0.2	0.005	
58	RS-483 285'-290'	-2	-0.001		0.3	0.010	
59	RS-483 290'-295'	-2	-0.001		0.4	0.012	
60	RS-483 295'-300'	-2	-0.001		0.1	0.004	
61	RS-483 300'-305'	-2	-0.001		0.3	0.008	
62	RS-483 305'-310'	-2	-0.001		0.2	0.006	
63	RS-483 310'-315'	-2	-0.001		0.2	0.007	
64	RS-483 315'-320'	-2	-0.001		0.3	0.010	
65	RS-483 320'-325'	149	0.004		0.6	0.018	
66	RS-483 325'-330'	3	-0.001		0.1	0.004	
67	RS-483 330'-335'	23	0.001		0.2	0.007	
68	RS-483 335'-340'	-2	-0.001		0.3	0.008	
69	RS-483 340'-345'	3	-0.001		0.2	0.007	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:10 NO.435 04/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
70	RS-483 345'-350'	5	-0.001		0.2	0.007	
71	RS-483 350'-355'	-2	-0.001		0.2	0.007	
72	RS-483 355'-360'	-2	-0.001		0.2	0.007	
73	RS-483 360'-365'	36	0.001		0.2	0.005	
74	RS-483 365'-370'	2	-0.001		0.1	0.002	
75	RS-483 370'-375'	-2	-0.001		0.2	0.006	
76	RS-483 375'-380'	-2	-0.001		0.1	0.003	
77	RS-483 380'-385'	7	-0.001		0.2	0.005	
78	RS-483 385'-390'	-2	-0.001		0.1	0.003	
79	RS-483 390'-395'	-2	-0.001		0.2	0.005	
80	RS-483 395'-400'	15	-0.001		0.3	0.009	
81	RS-483 400'-405'	10	-0.001		0.2	0.005	
82	RS-483 405'-410'	-2	-0.001		0.2	0.006	
83	RS-483 410'-415'	-2	-0.001		0.1	0.004	
84	RS-483 415'-420'	-2	-0.001		0.2	0.005	
85	RS-483 420'-425'	-2	-0.001		0.2	0.005	
86	RS-483 425'-430'	-2	-0.001		0.2	0.000	
87	RS-483 430'-435'	-2	-0.001		0.1	0.003	
88	RS-483 435'-440'	-2	-0.001		0.1	0.004	
89	RS-483 440'-445'	-2	-0.001		0.1	0.003	
90	RS-483 445'-450'	-2	-0.001		0.1	0.004	
91	RS-483 450'-455'	-2	-0.001		0.1	0.003	
92	RS-483 455'-460'	10	-0.001		0.1	0.004	
93	RS-483 460'-465'	4	-0.001		0.3	0.009	
94	RS-483 465'-470'	3	-0.001		0.1	0.003	
95	RS-483 470'-475'	3	-0.001		0.2	0.007	
96	RS-483 475'-480'	-2	-0.001		0.1	0.004	
97	RS-483 480'-485'	-2	-0.001		0.2	0.007	
98	RS-483 485'-490'	-2	-0.001		0.1	0.002	
99	RS-483 490'-495'	-2	-0.001		0.2	0.007	
100	RS-483 495'-500'	4	-0.001		0.2	0.005	
101	RS-483 500'-505'	3	-0.001		0.1	0.004	
102	RS-483 505'-510'	7	-0.001		0.2	0.006	
103	RS-483 510'-515'	-2	-0.001		0.1	0.004	
104	RS-483 515'-520'	-2	-0.001		0.3	0.008	
105	RS-483 520'-525'	-2	-0.001		0.1	0.003	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:10 NO.435 05/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
106	RS-483 525'-530'	-2	-0.001		0.2	0.007	
107	RS-483 530'-535'	8	-0.001		0.9	0.025	
108	RS-483 535'-540'	-2	-0.001		0.2	0.006	
109	RS-483 540'-545'	-2	-0.001		0.2	0.006	
110	RS-483 545'-550'	12	-0.001		0.1	0.004	
111	RS-483 550'-555'	-2	-0.001		0.2	0.005	
112	RS-483 555'-560'	152	0.004		0.5	0.014	
113	RS-483 560'-565'	-2	-0.001		0.1	0.004	
114	RS-483 565'-570'	-2	-0.001		0.2	0.007	
115	RS-483 570'-575'	-2	-0.001		0.3	0.008	
116	RS-483 575'-580'	17	-0.001		0.4	0.011	
117	RS-483 580'-585'	5	-0.001		0.2	0.007	
118	RS-483 585'-590'	3	-0.001		0.2	0.006	
119	RS-483 590'-595'	3	-0.001		0.2	0.007	
120	RS-483 595'-600'	-2	-0.001		0.2	0.006	
121	RS-483 600'-605'	-2	-0.001		0.1	0.003	
122	RS-483 605'-610'	-2	-0.001		0.2	0.006	
123	RS-483 610'-615'	-2	-0.001		0.3	0.010	
124	RS-483 615'-620'	-2	-0.001		0.2	0.006	
125	RS-483 620'-625'	-2	-0.001		0.5	0.014	
126	RS-483 625'-630'	10	-0.001		0.4	0.012	
127	RS-483 630'-635'	-2	-0.001		0.2	0.005	
128	RS-483 635'-640'	-2	-0.001		0.1	0.002	
129	RS-483 640'-645'	-2	-0.001		0.2	0.007	
130	RS-483 645'-650'	3	-0.001		0.1	0.004	
131	RS-483 650'-655'	-2	-0.001		0.2	0.005	
132	RS-483 655'-660'	-2	-0.001		0.2	0.006	
133	RS-483 660'-665'	-2	-0.001		0.1	0.003	
134	RS-483 665'-670'	-2	-0.001		1.1	0.033	
135	RS-483 670'-675'	-2	-0.001		0.2	0.007	
136	RS-483 675'-680'	7	-0.001		0.2	0.005	
137	RS-483 680'-685'	-2	-0.001		0.1	0.004	
138	RS-483 685'-690'	-2	-0.001		0.2	0.007	
139	RS-483 690'-695'	-2	-0.001		0.3	0.008	
140	RS-483 695'-700'	-2	-0.001		1.6	0.046	
141	RS-483 700'-705'	-2	-0.001		0.1	0.003	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:11 NO.435 06/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
142	RS-483 705'-710'	6	-0.001		0.3	0.009	
143	RS-483 710'-715'	-2	-0.001		0.2	0.005	
144	RS-483 715'-720'	-2	-0.001		1.0	0.029	
145	RS-483 720'-725'	-2	-0.001		0.2	0.006	
146	RS-483 725'-730'	-2	-0.001		0.2	0.005	
147	RS-483 730'-735'	-2	-0.001		0.3	0.009	
148	RS-483 735'-740'	11	-0.001		0.3	0.010	
149	RS-483 740'-745'	-2	-0.001		0.3	0.008	
150	RS-483 745'-750'	-2	-0.001		0.2	0.005	
151	RS-483 750'-755'	-2	-0.001		0.2	0.005	
152	RS-483 755'-760'	-2	-0.001		0.1	0.003	
153	RS-483 760'-765'	-2	-0.001		0.2	0.005	
154	RS-483 765'-770'	-2	-0.001		0.3	0.009	
155	RS-483 770'-775'	11	-0.001		0.3	0.008	
156	RS-483 775'-780'	2	-0.001		0.2	0.006	
157	RS-483 780'-785'	-2	-0.001		0.1	0.003	
158	RS-483 785'-790'	-2	-0.001		0.2	0.007	
159	RS-483 790'-795'	-2	-0.001		0.2	0.005	
160	RS-483 795'-800'	-2	-0.001		0.2	0.006	
161	RS-483 800'-805'	-2	-0.001		0.1	0.004	
162	RS-483 805'-810'	-2	-0.001		0.2	0.007	
163	RS-483 810'-815'	-2	-0.001		0.2	0.006	
164	RS-483 815'-820'	-2	-0.001		0.2	0.006	
165	RS-483 820'-825'	2	-0.001		0.2	0.006	
166	RS-483 825'-830'	5	-0.001		0.3	0.008	
167	RS-483 830'-835'	-2	-0.001		0.6	0.018	
168	RS-483 835'-840'	-2	-0.001		0.1	0.004	
169	RS-483 840'-845'	12	-0.001		0.3	0.009	
170	RS-483 845'-850'	-2	-0.001		0.2	0.006	
171	RS-483 850'-855'	-2	-0.001		0.4	0.012	
172	RS-483 855'-860'	-2	-0.001		0.2	0.005	
173	RS-483 860'-865'	-2	-0.001		0.2	0.007	
174	RS-483 865'-870'	6	-0.001		0.3	0.009	
175	RS-483 870'-875'	-2	-0.001		0.2	0.005	
176	RS-483 875'-880'	-2	-0.001		0.2	0.006	
177	RS-483 880'-885'	-2	-0.001		0.2	0.006	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:11 NO.435 07/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
178	RS-483 885'-890'	-2	-0.001		0.3	0.009	
179	RS-483 890'-895'	-2	-0.001		0.1	0.004	
180	RS-483 895'-900'	-2	-0.001		0.4	0.012	
181	RS-483 900'-905'	-2	-0.001		0.2	0.006	
182	RS-483 905'-910'	9	-0.001		0.2	0.006	
183	RS-483 910'-915'	28	0.001		0.2	0.006	
184	RS-483 915'-920'	-2	-0.001		0.2	0.005	
185	RS-483 920'-925'	-2	-0.001		0.2	0.006	
186	RS-483 925'-930'	-2	-0.001		0.1	0.003	
187	RS-483 930'-935'	-2	-0.001		0.2	0.007	
188	RS-483 935'-940'	-2	-0.001		0.7	0.020	
189	RS-483 940'-945'	-2	-0.001		0.2	0.005	
190	RS-483 945'-950'	-2	-0.001		0.8	0.024	
191	RS-483 950'-955'	-2	-0.001		0.6	0.017	
192	RS-483 955'-960'	-2	-0.001		0.1	0.003	
193	RS-483 960'-965'	6	-0.001		0.2	0.007	
194	RS-483 965'-970'	30	0.001		0.8	0.022	
195	RS-483 970'-975'	18	0.001		0.8	0.024	
196	RS-483 975'-980'	22	0.001		0.2	0.007	
197	RS-483 980'-985'	-2	-0.001		0.4	0.011	
198	RS-483 985'-990'	-2	-0.001		0.2	0.006	
199	RS-483 990'-995'	-2	-0.001		0.2	0.005	
200	RS-483 995'-1000'	18	-0.001		0.2	0.006	
201	RS-483 1000'-1005'	47	0.001		0.9	0.025	
202	RS-483 1005'-1010'	56	0.002		0.8	0.022	
203	RS-483 1010'-1015'	43	0.001		0.5	0.016	
204	RS-483 1015'-1020'	83	0.002		1.4	0.041	
205	RS-483 1020'-1025'	50	0.001		1.3	0.037	
206	RS-483 1025'-1030'	39	0.001		0.9	0.025	
207	RS-483 1030'-1035'	91	0.003		1.2	0.035	
208	RS-483 1035'-1040'	59	0.002		1.0	0.029	
209	RS-483 1040'-1045'	61	0.002		0.9	0.026	
210	RS-483 1045'-1050'	80	0.002		0.5	0.015	
211	RS-483 1050'-1055'	83	0.002		0.4	0.011	
212	RS-483 1055'-1060'	40	0.001		0.3	0.009	
213	RS-483 1060'-1065'	65	0.002		0.4	0.013	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:12 NO.435 08/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
214	RS-483 1065'-1070'	20	0.001		0.4	0.011	
215	RS-483 1070'-1075'	19	0.001		0.2	0.005	
216	RS-483 1075'-1080'	6	-0.001		0.2	0.007	
217	RS-483 1080'-1085'	4	-0.001		0.2	0.007	
218	RS-483 1085'-1090'	-2	-0.001		0.1	0.004	
219	RS-483 1090'-1095'	2	-0.001		0.2	0.007	
220	RS-483 1095'-1100'	-2	-0.001		0.1	0.004	
221	RS-483 1100'-1105'	-2	-0.001		0.2	0.005	
222	RS-483 1105'-1110'	12	-0.001		0.1	0.004	
223	RS-483 1110'-1115'	-2	-0.001		0.2	0.006	
224	RS-483 1115'-1120'	-2	-0.001		0.1	0.003	
225	RS-483 1120'-1125'	-2	-0.001		0.1	0.004	
226	RS-483 1125'-1130'	-2	-0.001		0.2	0.006	
227	RS-483 1130'-1135'	-2	-0.001		1.0	0.028	
228	RS-483 1135'-1140'	-2	-0.001		0.52	0.006	
229	RS-483 1140'-1145'	-2	-0.001		0.1	0.004	
230	RS-483 1145'-1150'	-2	-0.001		0.2	0.005	
231	RS-483 1150'-1155'	-2	-0.001		0.1	0.003	
232	RS-483 1155'-1160'	-2	-0.001		0.4	0.013	
233	RS-483 1160'-1165'	2	-0.001		0.1	0.003	
234	RS-483 1165'-1170'	4	-0.001		0.2	0.007	
235	RS-483 1170'-1175'	-2	-0.001		0.1	0.003	
236	RS-483 1175'-1180'	-2	-0.001		0.1	0.003	
237	RS-483 1180'-1185'	-2	-0.001		0.3	0.010	
238	RS-483 1185'-1190'	-2	-0.001		0.3	0.009	
239	RS-483 1190'-1195'	-2	-0.001		0.1	0.003	
240	RS-483 1195'-1200'	-2	-0.001		0.1	0.003	
241	RS-483 1200'-1205'	-2	-0.001		0.3	0.010	
242	RS-483 1205'-1210'	3	-0.001		0.1	0.004	
243	RS-483 1210'-1215'	-2	-0.001		0.3	0.010	
244	RS-483 1215'-1220'	-2	-0.001		0.4	0.013	
245	RS-483 1220'-1225'	-2	-0.001		0.1	0.004	
246	RS-483 1225'-1230'	5	-0.001		0.4	0.012	
247	RS-483 1230'-1235'	16	-0.001		0.3	0.009	
248	RS-483 1235'-1240'	3	-0.001		0.5	0.015	
249	RS-483 1240'-1245'	-2	-0.001		0.2	0.005	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:12 NO.435 09/12

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:12 NO.435 10/12

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
250	RS-483 1245'-1250'	8	-0.001		0.4	0.011	
251	RS-483 1250'-1255'	27	0.001		0.2	0.007	
252	RS-483 1255'-1260'	41	0.001		0.5	0.015	
253	RS-483 1260'-1265'	175	0.005		0.8	0.023	
254	RS-483 1265'-1270'	296	0.009		1.0	0.030	
255	RS-483 1270'-1275'	17	-0.001		0.2	0.005	
256	RS-483 1275'-1280'	19	0.001		0.2	0.005	
257	RS-483 1280'-1285'	16	-0.001		0.4	0.012	
258	RS-483 1285'-1290'	15	-0.001		0.1	0.003	
259	RS-483 1290'-1295'	13	-0.001		0.4	0.011	
260	RS-483 1295'-1300'	23	0.001		0.2	0.005	
261	RS-483 1300'-1305'	228	0.007		0.9	0.027	
262	RS-483 1305'-1310'	219	0.006		1.5	0.043	
263	RS-483 1310'-1315'	151	0.004		0.7	0.020	
264	RS-483 1315'-1320'	154	0.004		0.9	0.025	
265	RS-483 1320'-1325'	89	0.003		0.4	0.013	
266	RS-483 1325'-1330'	51	0.001		0.5	0.015	
267	RS-483 1330'-1335'	85	0.002		0.4	0.012	
268	RS-483 1335'-1340'	28	0.001		0.4	0.011	
269	RS-483 1340'-1345'	42	0.001		0.3	0.008	
270	RS-483 1345'-1350'	57	0.002		0.4	0.011	
271	RS-483 1350'-1355'	49	0.001		0.3	0.010	
272	RS-483 1355'-1360'	126	0.004		0.4	0.011	
273	RS-483 1360'-1365'	133	0.004		0.8	0.023	
274	RS-483 1365'-1370'	53	0.002		0.2	0.007	
275	RS-483 1370'-1375'	30	0.001		0.3	0.010	
276	RS-483 1375'-1380'	68	0.002		0.4	0.012	
277	RS-483 1380'-1385'	118	0.003		0.6	0.018	
278	RS-483 1385'-1390'	98	0.003		0.3	0.008	
279	RS-483 1390'-1395'	33	0.001		0.4	0.012	
280	RS-483 1395'-1400'	M	M	M	M		
281	RS-483 1400'-1405'	M	M	M	M		
282	RS-483 1405'-1410'	29	0.001		0.4	0.011	
283	RS-483 1410'-1415'	13	-0.001		0.2	0.005	
284	RS-483 1415'-1420'	12	-0.001		0.4	0.012	
285	RS-483 1420'-1425'	11	-0.001		0.1	0.003	

CLIENT: Hecla (Rosebud Mine)

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
286	RS-483 1425'-1430'	22	0.001		0.9	0.025	
287	RS-483 1430'-1435'	21	0.001		0.4	0.011	
288	RS-483 1435'-1440'	12	-0.001		0.3	0.009	
289	RS-483 1440'-1445'	10	-0.001		0.1	0.004	
290	RS-483 1445'-1450'	19	0.001		0.2	0.006	
291	RS-483 1450'-1455'	12	-0.001		0.2	0.006	
292	RS-483 1455'-1460'	11	-0.001		0.1	0.004	
293	RS-483 1460'-1465'	10	-0.001		0.2	0.007	
294	RS-483 1465'-1470'	18	0.001		0.2	0.007	
295	RS-483 1470'-1475'	13	-0.001		0.3	0.008	
296	RS-483 1475'-1480'	15	-0.001		0.2	0.006	
297	RS-483 1480'-1485'	12	-0.001		0.3	0.008	
298	RS-483 1485'-1490'	13	-0.001		0.4	0.013	
299	RS-483 1490'-1495'	14	-0.001		0.2	0.006	
300	RS-483 1495'-1500'	11	-0.001		0.3	0.010	
301	RS-483 1500'-1505'	11	-0.001		0.3	0.008	
302	RS-483 1505'-1510'	14	-0.001		0.3	0.010	
303	RS-483 1510'-1515'	9	-0.001		0.2	0.005	
304	RS-483 1515'-1520'	10	-0.001		0.2	0.006	
305	RS-483 1520'-1525'	12	-0.001		0.1	0.004	
306	RS-483 1525'-1530'	18	0.001		0.2	0.007	
307	RS-483 1530'-1535'	9	-0.001		0.2	0.005	
308	RS-483 1535'-1540'	7	-0.001		0.1	0.003	
309	RS-483 1540'-1545'	11	-0.001		0.2	0.006	
310	RS-483 1545'-1550'	23	0.001		0.2	0.006	
311	RS-483 1550'-1555'	14	-0.001		0.2	0.005	
312	RS-483 1555'-1560'	9	-0.001		0.1	0.002	
313	RS-483 1560'-1565'	13	-0.001		0.3	0.008	
314	RS-483 1565'-1570'	23	0.001		0.2	0.006	
315	RS-483 1570'-1575'	9	-0.001		0.2	0.007	
316	RS-483 1575'-1580'	15	-0.001		0.2	0.006	
317	RS-483 1580'-1585'	13	-0.001		0.2	0.005	
318	RS-483 1585'-1590'	13	-0.001		0.6	0.017	
319	RS-483 1590'-1595'	17	-0.001		0.4	0.012	
320	RS-483 1595'-1600'	11	-0.001		0.6	0.018	
321	RS-483 1600'-1605'	24	0.001		0.3	0.009	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:13 NO.435 11/12

CLIENT: Hecla (Rosebud Mine)

100-00-77	Sample Designation	Gold FA/AA ppb	Gold FA/AA oz/ton	Gold FA/GRAV oz/ton	Silver FA/AA ppm	Silver FA/AA oz/ton	Silver FA/GRAV oz/ton
322	RS-483 1605'-1610'	24	0.001		0.6	0.017	
323	STD 75338	1820	0.053		28.8	0.840	

ROCKY MOUNTAIN GEO 7753592944 01/25 '00 15:13 NO.435 12/12

Tuesday, January 25, 2000

By _____

INSPECTORATE

ROCKY MOUNTAIN GEOCHEMICAL

A MEMBER OF THE INSPECTORATE GROUP OF COMPANIES

840 GREG STREET • SPARKS, NEVADA 89431 • PHONE (775) 359-6311 • FAX (775) 359-2944

Certificate of Analysis

DATE: Friday, February 11, 2000

JOB NO: 100-00-77

CLIENT: Hecla (Rosebud Mine)
P.O. Box 2610
Winnemucca, NV 89446 US

INVOICE NO: 33100488

CLIENT ORDER NO: RS-483 NSI

REPORT ON: 323 RC

SUBMITTED BY: Kurt Allen

DATE RECIEVED: Friday, January 07, 2000

ANALYSES: Rosebud Mine Development Protocol

ANALYTICAL METHODS: FA/AA

REMARKS:

CC: RMG File

E-MAILED TO:

All values are reported in parts per million unless specified otherwise. A minus sign (–) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND=None Detected 1 ppm=0.0001% Troy oz./ton=34.286 ppm 1 ppm=0.0292 Troy oz./ton

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of rocks or minerals collected by the prospective investor or by a qualified person selected by him.

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 0'-5'	71	0.002	0.4	0.013
RS-483 5'-10'	60	0.002	0.2	0.006
RS-483 10'-15'	21	0.001	0.3	0.009
RS-483 15'-20'	-2	-0.001	0.2	0.006
RS-483 20'-25'	41	0.001	0.5	0.016
RS-483 25'-30'	51	0.001	0.3	0.010
RS-483 30'-35'	34	0.001	0.3	0.008
RS-483 35'-40'	53	0.002	0.8	0.023
RS-483 40'-45'	5	-0.001	0.3	0.008
RS-483 45'-50'	45	0.001	0.2	0.007
RS-483 50'-55'	51	0.001	0.2	0.007
RS-483 55'-60'	237	0.007	0.7	0.021
RS-483 60'-65'	55	0.002	0.3	0.008
RS-483 65'-70'	16	-0.001	0.3	0.010
RS-483 70'-75'	16	-0.001	0.3	0.009
RS-483 75'-80'	7	-0.001	0.3	0.009
RS-483 80'-85'	10	-0.001	0.2	0.006
RS-483 85'-90'	M	M	M	M
RS-483 90'-95'	43	0.001	1.7	0.051
RS-483 95'-100'	8	-0.001	0.1	0.004
RS-483 100'-105'	2	0.001	0.2	0.006
RS-483 105'-110'	30	-0.001	0.2	0.005
RS-483 110'-115'	8	-0.001	0.1	0.004
RS-483 115'-120'	13	-0.001	0.1	0.004

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 120'-125'	5	-0.001	0.2	0.007
RS-483 125'-130'	13	-0.001	0.8	0.022
RS-483 130'-135'	67	0.002	0.5	0.014
RS-483 135'-140'	100	0.003	0.6	0.018
RS-483 140'-145'	5	-0.001	0.2	0.007
RS-483 145'-150'	10	-0.001	0.7	0.019
RS-483 150'-155'	41	0.001	0.3	0.009
RS-483 155'-160'	4	-0.001	0.4	0.013
RS-483 160'-165'	-2	-0.001	0.1	0.003
RS-483 165'-170'	-2	-0.001	0.3	0.009
RS-483 170'-175'	-2	-0.001	0.1	0.004
RS-483 175'-180'	-2	-0.001	0.3	0.010
RS-483 180'-185'	-2	-0.001	0.2	0.007
RS-483 185'-190'	-2	-0.001	0.2	0.005
RS-483 190'-195'	-2	-0.001	0.2	0.007
RS-483 195'-200'	-2	-0.001	0.1	0.004
RS-483 200'-205'	-2	-0.001	0.2	0.007
RS-483 205'-210'	-2	-0.001	0.1	0.004
RS-483 210'-215'	-2	-0.001	0.3	0.008
RS-483 215'-220'	-2	-0.001	0.3	0.009
RS-483 220'-225'	-2	-0.001	0.2	0.006
RS-483 225'-230'	-2	-0.001	0.3	0.008
RS-483 230'-235'	-2	-0.001	0.2	0.005
RS-483 235'-240'	-2	-0.001	0.2	0.005

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 240'-245'	-2	-0.001	0.6	0.017
RS-483 245'-250'	5	-0.001	0.1	0.004
RS-483 250'-255'	-2	-0.001	0.1	0.003
RS-483 255'-260'	13	-0.001	0.3	0.008
RS-483 260'-265'	16	-0.001	0.4	0.012
RS-483 265'-270'	-2	-0.001	0.2	0.007
RS-483 270'-275'	-2	-0.001	0.2	0.006
RS-483 275'-280'	-2	-0.001	0.1	0.003
RS-483 280'-285'	-2	-0.001	0.2	0.005
RS-483 285'-290'	-2	-0.001	0.3	0.010
RS-483 290'-295'	-2	-0.001	0.4	0.012
RS-483 295'-300'	-2	-0.001	0.1	0.004
RS-483 300'-305'	-2	-0.001	0.3	0.008
RS-483 305'-310'	-2	-0.001	0.2	0.006
RS-483 310'-315'	-2	-0.001	0.2	0.007
RS-483 315'-320'	-2	-0.001	0.3	0.010
RS-483 320'-325'	149	0.004	0.6	0.018
RS-483 325'-330'	3	-0.001	0.1	0.004
RS-483 330'-335'	23	0.001	0.2	0.007
RS-483 335'-340'	-2	-0.001	0.3	0.008
RS-483 340'-345'	3	-0.001	0.2	0.007
RS-483 345'-350'	5	-0.001	0.2	0.007
RS-483 350'-355'	-2	-0.001	0.2	0.007
RS-483 355'-360'	-2	-0.001	0.2	0.007

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 360'-365'	36	0.001	0.2	0.005
RS-483 365'-370'	2	-0.001	0.1	0.002
RS-483 370'-375'	-2	-0.001	0.2	0.006
RS-483 375'-380'	-2	-0.001	0.1	0.003
RS-483 380'-385'	7	-0.001	0.2	0.005
RS-483 385'-390'	-2	-0.001	0.1	0.003
RS-483 390'-395'	-2	-0.001	0.2	0.005
RS-483 395'-400'	15	-0.001	0.3	0.009
RS-483 400'-405'	10	-0.001	0.2	0.005
RS-483 405'-410'	-2	-0.001	0.2	0.006
RS-483 410'-415'	-2	-0.001	0.1	0.004
RS-483 415'-420'	-2	-0.001	0.2	0.005
RS-483 420'-425'	-2	-0.001	0.2	0.005
RS-483 425'-430'	-2	-0.001	0.2	0.000
RS-483 430'-435'	-2	-0.001	0.1	0.003
RS-483 435'-440'	-2	-0.001	0.1	0.004
RS-483 440'-445'	-2	-0.001	0.1	0.003
RS-483 445'-450'	-2	-0.001	0.1	0.004
RS-483 450'-455'	-2	-0.001	0.1	0.003
RS-483 455'-460'	10	-0.001	0.1	0.004
RS-483 460'-465'	4	-0.001	0.3	0.009
RS-483 465'-470'	3	-0.001	0.1	0.003
RS-483 470'-475'	3	-0.001	0.2	0.007
RS-483 475'-480'	-2	-0.001	0.1	0.004

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 480'-485'	-2	-0.001	0.2	0.007
RS-483 485'-490'	-2	-0.001	0.1	0.002
RS-483 490'-495'	-2	-0.001	0.2	0.007
RS-483 495'-500'	4	-0.001	0.2	0.005
RS-483 500'-505'	3	-0.001	0.1	0.004
RS-483 505'-510'	7	-0.001	0.2	0.006
RS-483 510'-515'	-2	-0.001	0.1	0.004
RS-483 515'-520'	-2	-0.001	0.3	0.008
RS-483 520'-525'	-2	-0.001	0.1	0.003
RS-483 525'-530'	-2	-0.001	0.2	0.007
RS-483 530'-535'	8	-0.001	0.9	0.025
RS-483 535'-540'	-2	-0.001	0.2	0.006
RS-483 540'-545'	-2	-0.001	0.2	0.006
RS-483 545'-550'	12	-0.001	0.1	0.004
RS-483 550'-555'	-2	-0.001	0.2	0.005
RS-483 555'-560'	152	0.004	0.5	0.014
RS-483 560'-565'	-2	-0.001	0.1	0.004
RS-483 565'-570'	-2	-0.001	0.2	0.007
RS-483 570'-575'	-2	-0.001	0.3	0.008
RS-483 575'-580'	17	-0.001	0.4	0.011
RS-483 580'-585'	5	-0.001	0.2	0.007
RS-483 585'-590'	3	-0.001	0.2	0.006
RS-483 590'-595'	3	-0.001	0.2	0.007
RS-483 595'-600'	-2	-0.001	0.2	0.006

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 600'-605'	-2	-0.001	0.1	0.003
RS-483 605'-610'	-2	-0.001	0.2	0.006
RS-483 610'-615'	-2	-0.001	0.3	0.010
RS-483 615'-620'	-2	-0.001	0.2	0.006
RS-483 620'-625'	-2	-0.001	0.5	0.014
RS-483 625'-630'	10	-0.001	0.4	0.012
RS-483 630'-635'	-2	-0.001	0.2	0.005
RS-483 635'-640'	-2	-0.001	0.1	0.002
RS-483 640'-645'	-2	-0.001	0.2	0.007
RS-483 645'-650'	3	-0.001	0.1	0.004
RS-483 650'-655'	-2	-0.001	0.2	0.005
RS-483 655'-660'	-2	-0.001	0.2	0.006
RS-483 660'-665'	-2	-0.001	0.1	0.003
RS-483 665'-670'	-2	-0.001	1.1	0.033
RS-483 670'-675'	-2	-0.001	0.2	0.007
RS-483 675'-680'	7	-0.001	0.2	0.005
RS-483 680'-685'	-2	-0.001	0.1	0.004
RS-483 685'-690'	-2	-0.001	0.2	0.007
RS-483 690'-695'	-2	-0.001	0.3	0.008
RS-483 695'-700'	-2	-0.001	1.6	0.046
RS-483 700'-705'	-2	-0.001	0.1	0.003
RS-483 705'-710'	6	-0.001	0.3	0.009
RS-483 710'-715'	-2	-0.001	0.2	0.005
RS-483 715'-720'	-2	-0.001	1.0	0.029

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 720'-725'	-2	-0.001	0.2	0.006
RS-483 725'-730'	2	-0.001	0.2	0.005
RS-483 730'-735'	-2	-0.001	0.3	0.009
RS-483 735'-740'	11	-0.001	0.3	0.010
RS-483 740'-745'	-2	-0.001	0.3	0.008
RS-483 745'-750'	-2	-0.001	0.2	0.005
RS-483 750'-755'	-2	-0.001	0.2	0.005
RS-483 755'-760'	-2	-0.001	0.1	0.003
RS-483 760'-765'	-2	-0.001	0.2	0.005
RS-483 765'-770'	-2	-0.001	0.3	0.009
RS-483 770'-775'	11	-0.001	0.3	0.008
RS-483 775'-780'	2	-0.001	0.2	0.006
RS-483 780'-785'	-2	-0.001	0.1	0.003
RS-483 785'-790'	-2	-0.001	0.2	0.007
RS-483 790'-795'	-2	-0.001	0.2	0.005
RS-483 795'-800'	-2	-0.001	0.2	0.006
RS-483 800'-805'	-2	-0.001	0.1	0.004
RS-483 805'-810'	-2	-0.001	0.2	0.007
RS-483 810'-815'	-2	-0.001	0.2	0.006
RS-483 815'-820'	-2	-0.001	0.2	0.006
RS-483 820'-825'	2	-0.001	0.2	0.006
RS-483 825'-830'	5	-0.001	0.3	0.008
RS-483 830'-835'	-2	-0.001	0.6	0.018
RS-483 835'-840'	-2	-0.001	0.1	0.004

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 840'-845'	12	-0.001	0.3	0.009
RS-483 845'-850'	-2	-0.001	0.2	0.006
RS-483 850'-855'	-2	-0.001	0.4	0.012
RS-483 855'-860'	-2	-0.001	0.2	0.005
RS-483 860'-865'	-2	-0.001	0.2	0.007
RS-483 865'-870'	6	-0.001	0.3	0.009
RS-483 870'-875'	-2	-0.001	0.2	0.005
RS-483 875'-880'	-2	-0.001	0.2	0.006
RS-483 880'-885'	-2	-0.001	0.2	0.006
RS-483 885'-890'	-2	-0.001	0.3	0.009
RS-483 890'-895'	-2	-0.001	0.1	0.004
RS-483 895'-900'	-2	-0.001	0.4	0.012
RS-483 900'-905'	-2	-0.001	0.2	0.006
RS-483 905'-910'	9	-0.001	0.2	0.006
RS-483 910'-915'	28	0.001	0.2	0.006
RS-483 915'-920'	-2	-0.001	0.2	0.005
RS-483 920'-925'	-2	-0.001	0.2	0.006
RS-483 925'-930'	-2	-0.001	0.1	0.003
RS-483 930'-935'	-2	-0.001	0.2	0.007
RS-483 935'-940'	-2	-0.001	0.7	0.020
RS-483 940'-945'	2	-0.001	0.2	0.005
RS-483 945'-950'	-2	-0.001	0.8	0.024
RS-483 950'-955'	-2	-0.001	0.6	0.017
RS-483 955'-960'	-2	-0.001	0.1	0.003

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 960'-965'	6	-0.001	0.2	0.007
RS-483 965'-970'	30	0.001	0.8	0.022
RS-483 970'-975'	18	0.001	0.8	0.024
RS-483 975'-980'	22	0.001	0.2	0.007
RS-483 980'-985'	-2	-0.001	0.4	0.011
RS-483 985'-990'	-2	-0.001	0.2	0.006
RS-483 990'-995'	-2	-0.001	0.2	0.005
RS-483 995'-1000'	18	-0.001	0.2	0.006
RS-483 1000'-1005'	47	0.001	0.9	0.025
RS-483 1005'-1010'	56	0.002	0.8	0.022
RS-483 1010'-1015'	43	0.001	0.5	0.016
RS-483 1015'-1020'	83	0.002	1.4	0.041
RS-483 1020'-1025'	50	0.001	1.3	0.037
RS-483 1025'-1030'	39	0.001	0.9	0.025
RS-483 1030'-1035'	91	0.003	1.2	0.035
RS-483 1035'-1040'	59	0.002	1.0	0.029
RS-483 1040'-1045'	61	0.002	0.9	0.026
RS-483 1045'-1050'	80	0.002	0.5	0.015
RS-483 1050'-1055'	83	0.002	0.4	0.011
RS-483 1055'-1060'	40	0.001	0.3	0.009
RS-483 1060'-1065'	65	0.002	0.4	0.013
RS-483 1065'-1070'	20	0.001	0.4	0.011
RS-483 1070'-1075'	19	0.001	0.2	0.005
RS-483 1075'-1080'	6	-0.001	0.2	0.007

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 1080'-1085'	4	-0.001	0.2	0.007
RS-483 1085'-1090'	-2	-0.001	0.1	0.004
RS-483 1090'-1095'	2	-0.001	0.2	0.007
RS-483 1095'-1100'	-2	-0.001	0.1	0.004
RS-483 1100'-1105'	-2	-0.001	0.2	0.005
RS-483 1105'-1110'	12	-0.001	0.1	0.004
RS-483 1110'-1115'	-2	-0.001	0.2	0.006
RS-483 1115'-1120'	-2	-0.001	0.1	0.003
RS-483 1120'-1125'	-2	-0.001	0.1	0.004
RS-483 1125'-1130'	-2	-0.001	0.2	0.006
RS-483 1130'-1135'	-2	-0.001	1.0	0.028
RS-483 1135'-1140'	-2	-0.001	0.52	0.006
RS-483 1140'-1145'	-2	-0.001	0.1	0.004
RS-483 1145'-1150'	-2	-0.001	0.2	0.005
RS-483 1150'-1155'	-2	-0.001	0.1	0.003
RS-483 1155'-1160'	-2	-0.001	0.4	0.013
RS-483 1160'-1165'	2	-0.001	0.1	0.003
RS-483 1165'-1170'	4	-0.001	0.2	0.007
RS-483 1170'-1175'	-2	-0.001	0.1	0.003
RS-483 1175'-1180'	-2	-0.001	0.1	0.003
RS-483 1180'-1185'	-2	-0.001	0.3	0.010
RS-483 1185'-1190'	-2	-0.001	0.3	0.009
RS-483 1190'-1195'	-2	-0.001	0.1	0.003
RS-483 1195'-1200'	-2	-0.001	0.1	0.003

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 1200'-1205'	-2	-0.001	0.3	0.010
RS-483 1205'-1210'	3	-0.001	0.1	0.004
RS-483 1210'-1215'	-2	-0.001	0.3	0.010
RS-483 1215'-1220'	-2	-0.001	0.4	0.013
RS-483 1220'-1225'	-2	-0.001	0.1	0.004
RS-483 1225'-1230'	5	-0.001	0.4	0.012
RS-483 1230'-1235'	16	-0.001	0.3	0.009
RS-483 1235'-1240'	3	-0.001	0.5	0.015
RS-483 1240'-1245'	-2	-0.001	0.2	0.005
RS-483 1245'-1250'	8	-0.001	0.4	0.011
RS-483 1250'-1255'	27	0.001	0.2	0.007
RS-483 1255'-1260'	41	0.001	0.5	0.015
RS-483 1260'-1265'	175	0.005	0.8	0.023
RS-483 1265'-1270'	296	0.009	1.0	0.030
RS-483 1270'-1275'	17	-0.001	0.2	0.005
RS-483 1275'-1280'	19	0.001	0.2	0.005
RS-483 1280'-1285'	16	-0.001	0.4	0.012
RS-483 1285'-1290'	15	-0.001	0.1	0.003
RS-483 1290'-1295'	13	-0.001	0.4	0.011
RS-483 1295'-1300'	23	0.001	0.2	0.005
RS-483 1300'-1305'	228	0.007	0.9	0.027
RS-483 1305'-1310'	219	0.006	1.5	0.043
RS-483 1310'-1315'	151	0.004	0.7	0.020
RS-483 1315'-1320'	154	0.004	0.9	0.025

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 1320'-1325'	89	0.003	0.4	0.013
RS-483 1325'-1330'	51	0.001	0.5	0.015
RS-483 1330'-1335'	85	0.002	0.4	0.012
RS-483 1335'-1340'	28	0.001	0.4	0.011
RS-483 1340'-1345'	42	0.001	0.3	0.008
RS-483 1345'-1350'	57	0.002	0.4	0.011
RS-483 1350'-1355'	49	0.001	0.3	0.010
RS-483 1355'-1360'	126	0.004	0.4	0.011
RS-483 1360'-1365'	133	0.004	0.8	0.023
RS-483 1365'-1370'	53	0.002	0.2	0.007
RS-483 1370'-1375'	30	0.001	0.3	0.010
RS-483 1375'-1380'	68	0.002	0.4	0.012
RS-483 1380'-1385'	118	0.003	0.6	0.018
RS-483 1385'-1390'	98	0.003	0.3	0.008
RS-483 1390'-1395'	33	0.001	0.4	0.012
RS-483 1395'-1400'	M	M	M	M
RS-483 1400'-1405'	M	M	M	M
RS-483 1405'-1410'	29	0.001	0.4	0.011
RS-483 1410'-1415'	13	-0.001	0.2	0.005
RS-483 1415'-1420'	12	-0.001	0.4	0.012
RS-483 1420'-1425'	11	-0.001	0.1	0.003
RS-483 1425'-1430'	22	0.001	0.9	0.025
RS-483 1430'-1435'	21	0.001	0.4	0.011
RS-483 1435'-1440'	12	-0.001	0.3	0.009

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 1440'-1445'	10	-0.001	0.1	0.004
RS-483 1445'-1450'	19	0.001	0.2	0.006
RS-483 1450'-1455'	12	-0.001	0.2	0.006
RS-483 1455'-1460'	11	-0.001	0.1	0.004
RS-483 1460'-1465'	10	-0.001	0.2	0.007
RS-483 1465'-1470'	18	0.001	0.2	0.007
RS-483 1470'-1475'	13	-0.001	0.3	0.008
RS-483 1475'-1480'	15	-0.001	0.2	0.006
RS-483 1480'-1485'	12	-0.001	0.3	0.008
RS-483 1485'-1490'	13	-0.001	0.4	0.013
RS-483 1490'-1495'	14	-0.001	0.2	0.006
RS-483 1495'-1500'	11	-0.001	0.3	0.010
RS-483 1500'-1505'	11	-0.001	0.3	0.008
RS-483 1505'-1510'	14	-0.001	0.3	0.010
RS-483 1510'-1515'	9	-0.001	0.2	0.005
RS-483 1515'-1520'	10	-0.001	0.2	0.006
RS-483 1520'-1525'	12	-0.001	0.1	0.004
RS-483 1525'-1530'	18	0.001	0.2	0.007
RS-483 1530'-1535'	9	-0.001	0.2	0.005
RS-483 1535'-1540'	7	-0.001	0.1	0.003
RS-483 1540'-1545'	11	-0.001	0.2	0.006
RS-483 1545'-1550'	23	0.001	0.2	0.006
RS-483 1550'-1555'	14	-0.001	0.2	0.005
RS-483 1555'-1560'	9	-0.001	0.1	0.002

SAMPLE NO	ppb Gold	oz/ton Gold	ppm Silver	oz/ton Silver
RS-483 1560'-1565'	13	-0.001	0.3	0.008
RS-483 1565'-1570'	23	0.001	0.2	0.006
RS-483 1570'-1575'	9	-0.001	0.2	0.007
RS-483 1575'-1580'	15	-0.001	0.2	0.006
RS-483 1580'-1585'	13	-0.001	0.2	0.005
RS-483 1585'-1590'	13	-0.001	0.6	0.017
RS-483 1590'-1595'	17	-0.001	0.4	0.012
RS-483 1595'-1600'	11	-0.001	0.6	0.018
RS-483 1600'-1605'	24	0.001	0.3	0.009
RS-483 1605'-1610'	24	0.001	0.6	0.017
STD 75338	1820	0.053	28.8	0.840

INSPECTORATE

ROCKY MOUNTAIN GEOCHEMICAL

A MEMBER OF THE INSPECTORATE GROUP OF COMPANIES
840 GREG STREET • SPARKS, NEVADA 89431 • PHONE (775) 359-6311 • FAX (775) 359-2944

Kurt Allen
Hecla (Rosebud Mine)
P.O. Box 2610
Winnemucca, NV 89446 US

Invoice No: 33100488
Invoice Date: 2/11/00
JobNo: 100-00-77
Account No: 00007292

Client PO:

INVOICE

Terms: Net 30 days

Item Description	Qty	Unit Price	Amount
Rock Chip 16-20 Lbs	321	$4.50	$1,444.50
Au, Ag FA/AA/AAS	321	$6.50	$2,086.50

Sub Total:	**$3,531.00**
Discount: (0.00%)	**$0.00**
Discounted Total:	**$3,531.00**
Add'l Discount: (0.00%)	**$0.00**
Final Total:	**$3,531.00**

PLEASE REMIT TO:

Inspectorate America Corp.
P.O. Box 201901
Houston, TX 77216-1901

CLIENT: Hecla (Rosebud Mine)

JOB NO.: 100-00-78

100-00-78	Sample Designation	Silver	Aluminum	Arsenic	Boron	Barium	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	lagnesium	Manganese	Molybdenum	Sodium	Nickel
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
1	RS-483 0'-20'	-0.1	0.46	38	9.6	80	-1	0.49	0.7	3	20	9	2.13	0.11	236	-1	0.02	4
2	RS-483 20'-40'	-0.1	0.29	63	8.9	53	2	0.14	0.7	1	13	7	2.16	0.02	142	-1	0.03	-1
3	RS-483 40'-60'	-0.1	0.35	72	10.1	51	1	0.18	1.0	-1	12	7	2.47	0.04	516	-1	0.05	1
4	RS-483 60'-80'	-0.1	0.38	40	11.0	50	1	0.19	0.9	-1	11	6	2.81	0.04	887	-1	0.05	-1
5	RS-483 80'-100'	0.3	0.50	10	10.8	39	-1	0.24	0.8	-1	21	7	2.53	0.07	501	2	0.05	1
6	RS-483 100'-120'	-0.1	0.34	32	11.0	39	1	0.20	1.0	-1	12	9	2.61	0.04	321	-1	0.04	-1
7	RS-483 120'-140'	-0.1	0.37	91	11.3	62	3	0.12	1.1	-1	13	8	2.73	0.02	510	-1	0.02	-1
8	RS-483 140'-160'	-0.1	0.41	31	10.9	60	7	0.20	1.5	1	10	8	2.81	0.04	472	1	0.04	2
9	RS-483 160'-180'	-0.1	0.41	-2	7.8	17	2	0.26	1.0	1	10	7	1.82	0.06	393	-1	0.09	-1
10	RS-483 180'-200'	-0.1	0.38	-2	11.3	15	2	0.22	1.0	1	19	10	2.71	0.06	546	-1	0.07	1
11	RS-483 200'-220'	-0.1	0.35	-2	10.7	27	-1	0.17	1.0	-1	19	14	2.76	0.09	518	-1	0.07	2
12	RS-483 220'-240'	-0.1	0.48	-2	10.9	27	5	0.22	0.9	-1	15	13	2.63	0.10	478	1	0.07	2
13	RS-483 240'-260'	-0.1	0.40	-2	10.0	25	6	0.29	0.9	1	12	9	2.59	0.10	751	1	0.07	1
14	RS-483 260'-280'	-0.1	0.47	-2	10.6	23	2	0.23	1.0	-1	9	9	2.39	0.07	151	-1	0.06	-1
15	RS-483 280'-300'	-0.1	0.23	-2	11.1	25	5	0.19	0.9	-1	7	12	2.49	0.07	468	-1	0.06	1
16	RS-483 300'-320'	-0.1	0.30	-2	12.8	30	6	0.20	0.9	1	11	12	3.24	0.05	583	-1	0.06	1
17	RS-483 320'-340'	-0.1	0.48	-2	10.0	38	4	0.26	0.8	1	9	8	2.48	0.03	592	-1	0.06	-1
18	RS-483 340'-360'	-0.1	0.54	-2	11.9	117	4	0.36	1.0	-1	7	11	3.07	0.05	1316	-1	0.06	-1
19	RS-483 360'-380'	-0.1	0.46	-2	9.3	60	-1	0.46	0.9	-1	4	7	2.31	0.05	622	-1	0.05	-1
20	RS-483 380'-400'	-0.1	0.47	-2	9.8	162	3	1.46	0.9	-1	2	9	2.62	0.07	617	-1	0.06	-1
21	RS-483 400'-420'	-0.1	0.64	-2	11.3	76	6	0.90	1.0	-1	11	9	3.01	0.12	445	1	0.05	3
22	RS-483 420'-440'	-0.1	0.66	-2	12.1	73	6	1.28	1.1	2	10	23	3.14	0.14	728	2	0.05	3
23	RS-483 440'-460'	-0.1	0.71	2	11.2	64	4	1.83	1.2	2	12	17	3.04	0.16	792	5	0.05	4
24	RS-483 460'-480'	-0.1	0.56	4	10.6	49	4	0.84	0.8	2	11	11	2.78	0.11	439	1	0.04	4
25	RS-483 480'-500'	-0.1	0.63	6	9.6	87	4	1.79	0.7	1	10	8	2.53	0.12	575	-1	0.04	3
26	RS-483 500'-520'	-0.1	0.85	-2	10.5	120	4	1.85	0.9	1	17	7	2.92	0.13	717	-1	0.04	2
27	RS-483 520'-540'	-0.1	0.74	-2	9.3	44	6	1.64	0.7	-1	16	5	2.39	0.10	587	-1	0.04	1
28	RS-483 540'-560'	-0.1	0.57	-2	9.0	91	6	1.50	0.8	1	6	6	2.44	0.08	559	-1	0.05	-1
29	RS-483 560'-580'	-0.1	0.61	7	9.4	70	4	1.27	0.8	-1	11	5	2.36	0.07	643	-1	0.05	-1
30	RS-483 580'-600'	-0.1	0.67	3	10.1	32	3	1.52	1.0	-1	8	5	2.61	0.08	653	-1	0.04	-1
31	RS-483 600'-620'	-0.1	0.74	-2	10.4	57	2	1.32	1.3	1	18	8	2.83	0.08	668	-1	0.04	2
32	RS-483 620'-640'	-0.1	0.62	5	11.0	32	3	0.92	1.0	-1	12	7	2.93	0.06	702	-1	0.04	-1
33	RS-483 640'-660'	-0.1	0.54	-2	11.8	45	2	0.47	0.9	-1	30	7	2.90	0.04	592	1	0.05	2

CLIENT: Hecla (Rosebud Mine)

100-00-78	Sample Designation	Silver	Aluminum	Arsenic	Boron	Barium	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
34	RS-483 660'-680'	-0.1	0.49	-2	11.7	39	2	0.57	1.1	-1	28	7	2.98
35	RS-483 680'-700'	-0.1	0.40	-2	11.3	21	3	0.77	0.9	-1	23	8	2.80
36	RS-483 700'-720'	-0.1	0.45	-2	11.3	83	5	0.64	0.9	-1	29	8	2.76
37	RS-483 720'-740'	-0.1	0.32	-2	7.8	26	2	0.47	0.6	-1	33	8	1.77
38	RS-483 740'-760'	-0.1	0.38	-2	8.1	21	1	0.38	0.6	-1	40	9	1.97
39	RS-483 760'-780'	-0.1	0.47	3	7.9	38	-1	0.46	0.5	-1	32	7	1.77
40	RS-483 780'-800'	-0.1	0.34	-2	7.7	14	5	0.63	0.6	-1	34	5	1.78
41	RS-483 800'-820'	-0.1	0.45	4	8.1	24	1	0.54	0.5	-1	33	6	1.86
42	RS-483 820'-840'	-0.1	0.30	3	8.9	35	2	0.22	0.6	-1	32	6	1.98
43	RS-483 840'-860'	-0.1	0.21	-2	8.2	12	2	0.49	0.7	-1	24	8	1.89
44	RS-483 860'-880'	-0.1	0.31	4	9.2	30	4	0.39	0.6	-1	17	5	2.21
45	RS-483 880'-900'	-0.1	0.38	4	7.6	14	2	1.07	0.7	-1	19	5	1.73
46	RS-483 900'-920'	-0.1	0.29	2	9.4	25	6	1.05	0.8	-1	28	10	2.45
47	RS-483 920'-940'	-0.1	0.34	-2	7.0	19	-1	1.33	-0.5	-1	17	17	1.62
48	RS-483 940'-960'	-0.1	0.36	3	7.5	22	2	1.19	0.5	-1	21	7	1.68
49	RS-483 960'-980'	0.7	0.42	32	10.3	82	2	0.31	0.8	-1	18	7	2.55
50	RS-483 980'-1000'	-0.1	0.38	13	7.5	51	-1	0.21	-0.5	-1	13	6	1.74
51	RS-483 1000'-1020'	1.0	0.31	89	11.1	76	6	0.16	0.8	-1	27	7	2.73
52	RS-483 1020'-1040'	2.4	0.20	57	10.1	90	6	0.15	0.9	-1	32	6	2.59
53	RS-483 1040'-1060'	-0.1	0.17	16	7.9	23	-1	0.14	-0.5	-1	14	6	1.69
54	RS-483 1060'-1080'	-0.1	0.18	25	9.2	39	-1	0.12	0.5	-1	9	7	2.15
55	RS-483 1080'-1100'	-0.1	0.32	9	7.5	20	6	0.51	0.9	-1	7	7	1.75
56	RS-483 1100'-1120'	-0.1	0.36	3	8.9	12	3	0.45	0.8	-1	12	8	2.08
57	RS-483 1120'-1140'	-0.1	0.29	6	8.0	9	6	0.47	0.5	-1	19	7	1.76
58	RS-483 1140'-1160'	-0.1	0.38	11	9.2	9	4	1.28	0.9	-1	8	6	2.28
59	RS-483 1160'-1180'	-0.1	0.46	26	7.5	14	4	1.12	0.6	-1	3	5	1.90
60	RS-483 1180'-1200'	-0.1	0.38	8	8.4	10	-1	1.18	0.7	-1	9	5	1.93
61	RS-483 1200'-1220'	-0.1	0.29	4	7.6	11	3	0.47	0.7	-1	25	10	1.87
62	RS-483 1220'-1240'	-0.1	0.29	3	7.6	7	2	0.34	1.1	-1	20	15	1.84
63	RS-483 1240'-1260'	-0.1	0.18	22	9.0	8	2	0.16	0.9	-1	19	9	2.14
64	RS-483 1260'-1280'	0.1	0.20	25	8.1	6	-1	0.20	0.6	-1	19	7	2.02
65	RS-483 1280'-1300'	-0.1	0.26	10	6.4	9	4	0.35	-0.5	-1	12	7	1.55
66	RS-483 1300'-1320'	0.5	0.12	58	9.4	8	6	0.12	0.8	-1	42	9	2.28
67	RS-483 1320'-1340'	-0.1	0.17	33	9.0	10	3	0.20	0.7	-1	18	4	2.30
68	RS-483 1340'-1360'	-0.1	0.16	34	7.5	10	5	0.15	0.6	-1	19	4	1.89
69	RS-483 1360'-1380'	-0.1	0.12	36	7.3	8	2	0.17	-0.5	-1	21	6	1.82

CLIENT: Hecla (Rosebud Mine)

100-00-78	Sample Designation	Mercury AA ppb	Potassium ICP %	Lanthanum ICP ppm	Magnesium ICP %	Manganese ICP ppm	Molybdenum ICP ppm	Sodium ICP %	Nickel ICP ppm	Phosphorous ICP ppm	Lead ICP ppm
34	RS-483 660'-680'	23	0.15	15	0.03	800	2	0.06	2	261	20
35	RS-483 680'-700'	38	0.13	16	0.02	789	3	0.06	2	252	17
36	RS-483 700'-720'	26	0.18	18	0.02	983	2	0.05	2	217	16
37	RS-483 720'-740'	76	0.22	25	0.02	607	2	0.05	2	81	20
38	RS-483 740'-760'	47	0.26	28	0.02	774	2	0.06	2	61	28
39	RS-483 760'-780'	70	0.28	28	0.02	460	2	0.06	2	77	24
40	RS-483 780'-800'	64	0.27	31	0.01	349	3	0.05	2	78	19
41	RS-483 800'-820'	64	0.33	31	0.02	598	2	0.06	1	62	22
42	RS-483 820'-840'	59	0.25	29	0.01	1340	4	0.08	2	63	22
43	RS-483 840'-860'	50	0.20	25	0.02	1027	3	0.06	1	50	20
44	RS-483 860'-880'	88	0.25	29	0.01	1173	2	0.05	2	52	19
45	RS-483 880'-900'	59	0.26	28	0.02	769	3	0.05	1	56	16
46	RS-483 900'-920'	53	0.22	26	0.02	791	7	0.06	3	47	33
47	RS-483 920'-940'	53	0.26	31	0.03	520	4	0.05	3	78	28
48	RS-483 940'-960'	88	0.26	30	0.03	655	3	0.05	2	87	17
49	RS-483 960'-980'	199	0.31	34	-0.01	3750	6	0.08	1	49	29
50	RS-483 980'-1000'	88	0.30	33	-0.01	1429	4	0.06	-1	47	22
51	RS-483 1000'-1020'	346	0.24	28	-0.01	3804	9	0.09	2	39	22
52	RS-483 1020'-1040'	369	0.22	27	-0.01	6342	11	0.13	4	-1	22
53	RS-483 1040'-1060'	302	0.21	30	-0.01	533	3	0.02	1	41	17
54	RS-483 1060'-1080'	258	0.23	26	-0.01	498	2	0.01	1	40	19
55	RS-483 1080'-1100'	108	0.25	38	0.02	381	3	0.10	1	65	21
56	RS-483 1100'-1120'	56	0.23	32	0.03	959	5	0.07	2	66	28
57	RS-483 1120'-1140'	73	0.16	23	0.02	1064	6	0.06	2	34	20
58	RS-483 1140'-1160'	32	0.22	31	0.02	862	4	0.05	-1	35	17
59	RS-483 1160'-1180'	100	0.28	33	0.02	578	2	0.06	-1	46	34
60	RS-483 1180'-1200'	94	0.19	27	0.02	1159	4	0.06	-1	24	36
61	RS-483 1200'-1220'	18	0.14	20	0.02	795	6	0.06	2	49	18
62	RS-483 1220'-1240'	59	0.14	20	0.02	860	5	0.07	2	44	19
63	RS-483 1240'-1260'	243	0.13	19	0.01	668	5	0.10	4	34	18
64	RS-483 1260'-1280'	223	0.14	19	0.01	424	6	0.05	4	45	21
65	RS-483 1280'-1300'	88	0.18	25	0.02	478	5	0.05	2	55	30
66	RS-483 1300'-1320'	487	0.13	15	-0.01	56	7	0.06	7	34	22
67	RS-483 1320'-1340'	325	0.17	18	-0.01	58	2	0.05	3	53	21
68	RS-483 1340'-1360'	311	0.18	21	-0.01	40	3	0.05	4	37	22
69	RS-483 1360'-1380'	293	0.15	20	-0.01	32	2	0.06	3	96	22

ROCKY MOUNTAIN GEO 7753592944 02/07 '00 08:30 NO.629 05/08

100-00-78	Sample Designation	Antimony ICP ppm	Selenium ICP ppm	Strontium ICP ppm	Titanium ICP %	Thallium ICP ppm	Vanadium ICP ppm	Tungsten ICP ppm	Zinc ICP ppm
34	RS-483 660'-680'	-2	-5	29	0.02	-0.5	-2	2	95
35	RS-483 680'-700'	-2	-5	21	0.02	-0.5	-2	-1	92
36	RS-483 700'-720'	-2	-5	35	0.01	-0.5	-2	2	82
37	RS-483 720'-740'	-2	-5	18	-0.01	-0.5	-2	1	74
38	RS-483 740'-760'	-2	-5	21	-0.01	-0.5	-2	2	90
39	RS-483 760'-780'	-2	-5	21	-0.01	-0.5	-2	1	94
40	RS-483 780'-800'	-2	-5	19	-0.01	-0.5	-2	-1	74
41	RS-483 800'-820'	-2	-5	20	-0.01	-0.5	-2	2	82
42	RS-483 820'-840'	-2	-5	30	-0.01	-0.5	-2	1	119
43	RS-483 840'-860'	-2	-5	22	-0.01	-0.5	-2	1	88
44	RS-483 860'-880'	-2	-5	49	-0.01	-0.5	-2	1	84
45	RS-483 880'-900'	-2	-5	38	-0.01	-0.5	-2	1	80
46	RS-483 900'-920'	-2	-5	31	-0.01	-0.5	-2	2	86
47	RS-483 920'-940'	-2	-5	39	-0.01	-0.5	-2	-1	74
48	RS-483 940'-960'	-2	-5	36	-0.01	-0.5	-2	-1	79
49	RS-483 960'-980'	12	-5	55	-0.01	-0.5	-2	3	113
50	RS-483 980'-1000'	-2	-5	27	-0.01	-0.5	-2	1	89
51	RS-483 1000'-1020'	20	-5	63	-0.01	-0.5	-2	2	136
52	RS-483 1020'-1040'	19	-5	159	-0.01	-0.5	-2	2	178
53	RS-483 1040'-1060'	5	-5	15	-0.01	-0.5	-2	-1	37
54	RS-483 1060'-1080'	4	-5	14	-0.01	-0.5	-2	-1	30
55	RS-483 1080'-1100'	-2	-5	12	-0.01	-0.5	-2	1	140
56	RS-483 1100'-1120'	-2	-5	13	-0.01	-0.5	-2	-1	102
57	RS-483 1120'-1140'	-2	-5	14	-0.01	-0.5	-2	-1	84
58	RS-483 1140'-1160'	-2	-5	28	-0.01	-0.5	-2	2	75
59	RS-483 1160'-1180'	-2	-5	23	-0.01	-0.5	-2	-1	80
60	RS-483 1180'-1200'	-2	-5	25	-0.01	-0.5	-2	-1	82
61	RS-483 1200'-1220'	-2	-5	11	-0.01	-0.5	-2	-1	86
62	RS-483 1220'-1240'	-2	-5	8	-0.01	-0.5	-2	1	94
63	RS-483 1240'-1260'	3	-5	6	-0.01	-0.5	-2	2	138
64	RS-483 1260'-1280'	3	-5	6	-0.01	-0.5	-2	2	77
65	RS-483 1280'-1300'	-2	-5	8	-0.01	-0.5	-2	2	74
66	RS-483 1300'-1320'	7	-5	5	-0.01	-0.5	-2	2	99
67	RS-483 1320'-1340'	5	-5	7	-0.01	-0.5	-2	1	81
68	RS-483 1340'-1360'	4	-5	5	-0.01	-0.5	-2	1	78
69	RS-483 1360'-1380'	4	-5	5	-0.01	-0.5	-2	1	87

CLIENT: Hecla (Rosebud Mine)

100-00-78	Sample Designation	Silver ICP ppm	Aluminum ICP %	Arsenic ICP ppm	Boron ICP ppm	Barium ICP ppm	Bismuth ICP ppm	Calcium ICP %	Cadmium ICP ppm	Cobalt ICP ppm	Chromium ICP ppm	Copper ICP ppm	Iron ICP %
70	RS-483 1380'-1400'	-0.1	0.18	35	8.9	8	6	0.27	0.6	-1	30	6	2.26
71	RS-483 1400'-1420'	-0.1	0.33	6	6.8	13	5	1.29	0.7	-1	10	33	1.71
72	RS-483 1420'-1440'	0.2	0.30	4	6.1	15	2	2.13	0.5	-1	39	6	1.60
73	RS-483 1440'-1460'	0.1	0.44	3	8.7	16	4	1.34	0.6	-1	27	5	2.28
74	RS-483 1460'-1480'	0.1	0.45	25	8.8	14	-1	1.79	0.8	-1	13	16	2.27
75	RS-483 1480'-1500'	0.2	0.40	13	7.4	16	3	1.70	0.6	-1	17	13	1.98
76	RS-483 1500'-1520'	0.1	0.40	14	7.6	15	5	1.26	0.5	-1	20	10	1.99
77	RS-483 1520'-1540'	0.1	0.44	6	7.3	10	2	1.21	0.6	-1	17	6	1.91
78	RS-483 1540'-1560'	-0.1	0.42	2	6.9	12	3	1.04	0.6	-1	21	7	1.78
79	RS-483 1560'-1580'	-0.1	0.42	-2	7.3	13	7	1.01	-0.5	-1	25	6	1.84
80	RS-483 1580'-1600'	0.2	0.31	4	7.0	9	2	0.56	0.6	-1	26	6	1.70
81	RS-483 1600'-1605'	0.2	0.39	2	7.6	10	9	0.99	0.7	-1	23	7	1.88

ROCKY MOUNTAIN GEO 7753592944 02/07 '00 08:30 NO.629 06/08

100-00-78	Sample Designation	Mercury	Potassium	Lanthanum	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorous	Lead
		AA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppb	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
70	RS-483 1380'-1400'	252	0.16	19	-0.01	189	4	0.05	3	48	24
71	RS-483 1400'-1420'	67	0.20	26	0.02	639	2	0.06	1	40	26
72	RS-483 1420'-1440'	76	0.16	22	0.02	656	2	0.04	2	48	24
73	RS-483 1440'-1460'	82	0.20	20	0.03	972	2	0.04	1	76	20
74	RS-483 1460'-1480'	70	0.20	23	0.03	798	4	0.05	-1	41	24
75	RS-483 1480'-1500'	91	0.20	22	0.02	722	4	0.04	1	36	21
76	RS-483 1500'-1520'	50	0.17	19	0.03	618	3	0.04	1	37	18
77	RS-483 1520'-1540'	38	0.12	14	0.04	594	2	0.04	-1	60	15
78	RS-483 1540'-1560'	73	0.14	16	0.03	613	2	0.04	-1	75	14
79	RS-483 1560'-1580'	62	0.16	19	0.04	633	3	0.05	1	55	16
80	RS-483 1580'-1600'	67	0.09	11	0.02	588	6	0.05	2	35	15
81	RS-483 1600'-1605'	38	0.09	12	0.03	898	4	0.05	1	31	19

ROCKY MOUNTAIN GEO 7753592944 02/07 '00 08:31 NO.629 07/08

100-00-78	Sample Designation	Antimony ICP ppm	Selenium ICP ppm	Strontium ICP ppm	Titanium ICP %	Thallium ICP ppm	Vanadium ICP ppm	Tungsten ICP ppm	Zinc ICP ppm
70	RS-483 1380'-1400'	4	-5	6	-0.01	-0.5	-2	2	74
71	RS-483 1400'-1420'	-2	-5	19	-0.01	-0.5	-2	-1	89
72	RS-483 1420'-1440'	-2	-5	37	-0.01	-0.5	-2	-1	55
73	RS-483 1440'-1460'	-2	-5	25	-0.01	-0.5	-2	-1	64
74	RS-483 1460'-1480'	-2	-5	30	-0.01	-0.5	-2	-1	69
75	RS-483 1480'-1500'	-2	-5	23	-0.01	-0.5	-2	-1	57
76	RS-483 1500'-1520'	-2	-5	20	-0.01	-0.5	-2	-1	67
77	RS-483 1520'-1540'	-2	-5	22	-0.01	-0.5	-2	-1	63
78	RS-483 1540'-1560'	-2	-5	23	-0.01	-0.5	-2	-1	57
79	RS-483 1560'-1580'	-2	-5	25	-0.01	-0.5	-2	1	71
80	RS-483 1580'-1600'	-2	-5	12	-0.01	-0.5	-2	4	70
81	RS-483 1600'-1605'	-2	-5	22	-0.01	-0.5	-2	2	77

02/07 '00 08:31 NO.629 08/08
7753592944
ROCKY MOUNTAIN GEO

INSPECTORATE

ROCKY MOUNTAIN GEOCHEMICAL

A MEMBER OF THE INSPECTORATE GROUP OF COMPANIES

840 GREG STREET • SPARKS, NEVADA 89431 • PHONE (775) 359-6311 • FAX (775) 359-2944

Certificate of Analysis

DATE: Thursday, January 27, 2000

JOB NO: 100-00-78

CLIENT: Hecla (Rosebud Mine)
P.O. Box 2610
Winnemucca, NV 89446 US

INVOICE NO: 33100463

CLIENT ORDER NO: RS-483 Geochem

REPORT ON: 81 RC

SUBMITTED BY: Kurt Allen

DATE RECIEVED: Friday, January 07, 2000

ANALYSES: ICP30

ANALYTICAL METHODS: AA, ICP

REMARKS:

CC: RMG File

E-MAILED TO:

100-00-78	Sample Designation	Silver	Aluminum	Arsenic	Boron	Barium	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
1	RS-483 0'-20'	-0.1	0.46	38	9.6	80	-1	0.49	0.7	3	20	9	2.13
2	RS-483 20'-40'	-0.1	0.29	63	8.9	53	2	0.14	0.7	1	13	7	2.16
3	RS-483 40'-60'	-0.1	0.35	72	10.1	51	1	0.18	1.0	-1	12	7	2.47
4	RS-483 60'-80'	-0.1	0.38	40	11.0	50	1	0.19	0.9	-1	11	6	2.81
5	RS-483 80'-100'	0.3	0.50	10	10.8	39	-1	0.24	0.8	-1	21	7	2.53
6	RS-483 100'-120'	-0.1	0.34	32	11.0	39	1	0.20	1.0	-1	12	9	2.61
7	RS-483 120'-140'	-0.1	0.37	91	11.3	62	3	0.12	1.1	-1	13	8	2.73
8	RS-483 140'-160'	-0.1	0.41	31	10.9	60	7	0.20	1.5	1	10	8	2.81
9	RS-483 160'-180'	-0.1	0.41	-2	7.8	17	2	0.26	1.0	1	10	7	1.82
10	RS-483 180'-200'	-0.1	0.38	-2	11.3	15	2	0.22	1.0	1	19	10	2.71
11	RS-483 200'-220'	-0.1	0.35	-2	10.7	27	-1	0.17	1.0	-1	19	14	2.76
12	RS-483 220'-240'	-0.1	0.48	-2	10.9	27	5	0.22	0.9	-1	15	13	2.63
13	RS-483 240'-260'	-0.1	0.40	-2	10.0	25	6	0.29	0.9	1	12	9	2.59
14	RS-483 260'-280'	-0.1	0.47	-2	10.6	23	2	0.23	1.0	-1	9	9	2.39
15	RS-483 280'-300'	-0.1	0.23	-2	11.1	25	5	0.19	0.9	-1	7	12	2.49
16	RS-483 300'-320'	-0.1	0.30	-2	12.8	30	6	0.20	0.9	1	11	12	3.24
17	RS-483 320'-340'	-0.1	0.48	-2	10.0	38	4	0.26	0.8	1	9	8	2.48
18	RS-483 340'-360'	-0.1	0.54	-2	11.9	117	4	0.36	1.0	-1	7	11	3.07
19	RS-483 360'-380'	-0.1	0.46	-2	9.3	60	-1	0.46	0.9	-1	4	7	2.31
20	RS-483 380'-400'	-0.1	0.47	-2	9.8	162	3	1.46	0.9	-1	2	9	2.62
21	RS-483 400'-420'	-0.1	0.64	-2	11.3	76	6	0.90	1.0	-1	11	9	3.01
22	RS-483 420'-440'	-0.1	0.66	-2	12.1	73	6	1.28	1.1	2	10	23	3.14
23	RS-483 440'-460'	-0.1	0.71	2	11.2	64	4	1.83	1.2	2	12	17	3.04
24	RS-483 460'-480'	-0.1	0.56	4	10.6	49	4	0.84	0.8	2	11	11	2.78
25	RS-483 480'-500'	-0.1	0.63	6	9.6	87	4	1.79	0.7	1	10	8	2.53
26	RS-483 500'-520'	-0.1	0.85	-2	10.5	120	4	1.85	0.9	1	17	7	2.92
27	RS-483 520'-540'	-0.1	0.74	-2	9.3	44	6	1.64	0.7	-1	16	5	2.39
28	RS-483 540'-560'	-0.1	0.57	-2	9.0	91	6	1.50	0.8	1	6	6	2.44
29	RS-483 560'-580'	-0.1	0.61	7	9.4	70	4	1.27	0.8	-1	11	5	2.36
30	RS-483 580'-600'	-0.1	0.67	3	10.1	32	3	1.52	1.0	-1	8	5	2.61
31	RS-483 600'-620'	-0.1	0.74	-2	10.4	57	2	1.32	1.3	1	18	8	2.83
32	RS-483 620'-640'	-0.1	0.62	5	11.0	32	3	0.92	1.0	-1	12	7	2.93
33	RS-483 640'-660'	-0.1	0.54	-2	11.8	45	2	0.47	0.9	-1	30	7	2.90

100-00-78	Sample Designation	Mercury	Potassium	Lanthanum	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorous	Lead
		AA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppb	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
1	RS-483 0'-20'	2550	0.11	9	0.11	236	-1	0.02	4	312	16
2	RS-483 20'-40'	6331	0.08	12	0.02	142	-1	0.03	-1	260	22
3	RS-483 40'-60'	14508	0.10	15	0.04	516	-1	0.05	1	314	28
4	RS-483 60'-80'	8559	0.12	15	0.04	887	-1	0.05	-1	294	20
5	RS-483 80'-100'	2169	0.13	14	0.07	501	2	0.05	1	315	16
6	RS-483 100'-120'	2110	0.10	14	0.04	321	-1	0.04	-1	256	27
7	RS-483 120'-140'	5217	0.10	15	0.02	510	-1	0.02	-1	244	29
8	RS-483 140'-160'	2638	0.10	13	0.04	472	1	0.04	2	226	20
9	RS-483 160'-180'	182	0.10	14	0.06	393	-1	0.09	-1	205	25
10	RS-483 180'-200'	205	0.07	10	0.06	546	-1	0.07	1	268	36
11	RS-483 200'-220'	273	0.08	10	0.09	518	-1	0.07	2	203	29
12	RS-483 220'-240'	208	0.12	15	0.10	478	1	0.07	2	200	34
13	RS-483 240'-260'	123	0.14	15	0.10	751	1	0.07	1	243	20
14	RS-483 260'-280'	284	0.18	19	0.07	151	-1	0.06	-1	280	24
15	RS-483 280'-300'	120	0.12	12	0.07	468	-1	0.06	1	167	20
16	RS-483 300'-320'	176	0.13	13	0.05	583	-1	0.06	1	218	17
17	RS-483 320'-340'	120	0.18	17	0.03	592	-1	0.06	-1	203	20
18	RS-483 340'-360'	991	0.15	17	0.05	1316	-1	0.06	-1	229	43
19	RS-483 360'-380'	229	0.16	17	0.05	622	-1	0.05	-1	265	19
20	RS-483 380'-400'	94	0.16	17	0.07	617	-1	0.06	-1	336	26
21	RS-483 400'-420'	41	0.13	16	0.12	445	1	0.05	3	323	18
22	RS-483 420'-440'	44	0.11	14	0.14	728	2	0.05	3	353	43
23	RS-483 440'-460'	38	0.13	14	0.16	792	5	0.05	4	556	40
24	RS-483 460'-480'	56	0.13	15	0.11	439	1	0.04	4	419	20
25	RS-483 480'-500'	97	0.13	15	0.12	575	-1	0.04	3	331	18
26	RS-483 500'-520'	120	0.16	17	0.13	717	-1	0.04	2	338	19
27	RS-483 520'-540'	41	0.17	19	0.10	587	-1	0.04	1	285	15
28	RS-483 540'-560'	32	0.12	14	0.08	559	-1	0.05	-1	368	15
29	RS-483 560'-580'	47	0.15	17	0.07	643	-1	0.05	-1	232	30
30	RS-483 580'-600'	26	0.15	20	0.08	653	-1	0.04	-1	313	16
31	RS-483 600'-620'	50	0.17	18	0.08	668	-1	0.04	2	264	17
32	RS-483 620'-640'	94	0.13	16	0.06	702	-1	0.04	-1	216	17
33	RS-483 640'-660'	47	0.13	14	0.04	592	1	0.05	2	216	16

100-00-78	Sample Designation	Antimony ICP ppm	Selenium ICP ppm	Strontium ICP ppm	Titanium ICP %	Thallium ICP ppm	Vanadium ICP ppm	Tungsten ICP ppm	Zinc ICP ppm
1	RS-483 0'-20'	8	-5	46	0.01	-0.5	11	-1	43
2	RS-483 20'-40'	14	-5	19	-0.01	-0.5	2	5	48
3	RS-483 40'-60'	48	-5	11	-0.01	-0.5	3	1	86
4	RS-483 60'-80'	21	-5	13	-0.01	-0.5	3	1	83
5	RS-483 80'-100'	8	-5	14	-0.01	-0.5	-2	1	79
6	RS-483 100'-120'	9	-5	11	-0.01	-0.5	-2	-1	75
7	RS-483 120'-140'	32	-5	12	-0.01	-0.5	-2	-1	50
8	RS-483 140'-160'	8	-5	14	-0.01	-0.5	-2	2	68
9	RS-483 160'-180'	2	-5	9	-0.01	-0.5	-2	1	124
10	RS-483 180'-200'	-2	-5	7	-0.01	-0.5	-2	1	109
11	RS-483 200'-220'	-2	-5	6	0.01	-0.5	-2	-1	107
12	RS-483 220'-240'	-2	-5	6	0.01	-0.5	-2	1	113
13	RS-483 240'-260'	-2	-5	6	-0.01	-0.5	-2	1	112
14	RS-483 260'-280'	-2	-5	6	-0.01	-0.5	-2	-1	100
15	RS-483 280'-300'	-2	-5	5	-0.01	-0.5	-2	2	94
16	RS-483 300'-320'	-2	-5	8	-0.01	-0.5	-2	2	96
17	RS-483 320'-340'	-2	-5	14	-0.01	-0.5	-2	1	90
18	RS-483 340'-360'	3	-5	22	-0.01	-0.5	-2	-1	99
19	RS-483 360'-380'	-2	-5	22	-0.01	-0.5	-2	1	78
20	RS-483 380'-400'	-2	-5	52	-0.01	-0.5	-2	1	85
21	RS-483 400'-420'	-2	-5	42	-0.01	-0.5	3	-1	86
22	RS-483 420'-440'	-2	-5	52	-0.01	-0.5	4	1	86
23	RS-483 440'-460'	-2	-5	93	-0.01	-0.5	5	1	81
24	RS-483 460'-480'	-2	-5	53	-0.01	-0.5	4	1	69
25	RS-483 480'-500'	-2	-5	117	-0.01	-0.5	4	1	67
26	RS-483 500'-520'	-2	-5	126	-0.01	-0.5	4	1	68
27	RS-483 520'-540'	-2	-5	119	-0.01	-0.5	3	1	65
28	RS-483 540'-560'	-2	-5	119	-0.01	-0.5	2	1	70
29	RS-483 560'-580'	-2	-5	106	-0.01	-0.5	-2	1	72
30	RS-483 580'-600'	-2	-5	101	-0.01	-0.5	2	1	70
31	RS-483 600'-620'	-2	-5	100	-0.01	-0.5	4	-1	66
32	RS-483 620'-640'	-2	-5	42	-0.01	-0.5	-2	2	69
33	RS-483 640'-660'	-2	-5	29	-0.01	-0.5	-2	2	81

100-00-78	Sample Designation	Silver	Aluminum	Arsenic	Boron	Barium	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
34	RS-483 660'-680'	-0.1	0.49	-2	11.7	39	2	0.57	1.1	-1	28	7	2.98
35	RS-483 680'-700'	-0.1	0.40	-2	11.3	21	3	0.77	0.9	-1	23	8	2.80
36	RS-483 700'-720'	-0.1	0.45	-2	11.3	83	5	0.64	0.9	-1	29	8	2.76
37	RS-483 720'-740'	-0.1	0.32	-2	7.8	26	2	0.47	0.6	-1	33	8	1.77
38	RS-483 740'-760'	-0.1	0.38	-2	8.1	21	1	0.38	0.6	-1	40	9	1.97
39	RS-483 760'-780'	-0.1	0.47	3	7.9	38	-1	0.46	0.5	-1	32	7	1.77
40	RS-483 780'-800'	-0.1	0.34	-2	7.7	14	5	0.63	0.6	-1	34	5	1.78
41	RS-483 800'-820'	-0.1	0.45	4	8.1	24	1	0.54	0.5	-1	33	6	1.86
42	RS-483 820'-840'	-0.1	0.30	3	8.9	35	2	0.22	0.6	-1	32	6	1.98
43	RS-483 840'-860'	-0.1	0.21	-2	8.2	12	2	0.49	0.7	-1	24	8	1.89
44	RS-483 860'-880'	-0.1	0.31	4	9.2	30	4	0.39	0.6	-1	17	5	2.21
45	RS-483 880'-900'	-0.1	0.38	4	7.6	14	2	1.07	0.7	-1	19	5	1.73
46	RS-483 900'-920'	-0.1	0.29	2	9.4	25	6	1.05	0.8	-1	28	10	2.45
47	RS-483 920'-940'	-0.1	0.34	-2	7.0	19	-1	1.33	-0.5	-1	17	17	1.62
48	RS-483 940'-960'	-0.1	0.36	3	7.5	22	2	1.19	0.5	-1	21	7	1.68
49	RS-483 960'-980'	0.7	0.42	32	10.3	82	2	0.31	0.8	-1	18	7	2.55
50	RS-483 980'-1000'	-0.1	0.38	13	7.5	51	-1	0.21	-0.5	-1	13	6	1.74
51	RS-483 1000'-1020'	1.0	0.31	89	11.1	76	6	0.16	0.8	-1	27	7	2.73
52	RS-483 1020'-1040'	2.4	0.20	57	10.1	90	6	0.15	0.9	-1	32	6	2.59
53	RS-483 1040'-1060'	-0.1	0.17	16	7.9	23	-1	0.14	-0.5	-1	14	6	1.69
54	RS-483 1060'-1080'	-0.1	0.18	25	9.2	39	-1	0.12	0.5	-1	9	7	2.15
55	RS-483 1080'-1100'	-0.1	0.32	9	7.5	20	6	0.51	0.9	-1	7	7	1.75
56	RS-483 1100'-1120'	-0.1	0.36	3	8.9	12	3	0.45	0.8	-1	12	8	2.08
57	RS-483 1120'-1140'	-0.1	0.29	6	8.0	9	6	0.47	0.5	-1	19	7	1.76
58	RS-483 1140'-1160'	-0.1	0.38	11	9.2	9	4	1.28	0.9	-1	8	6	2.28
59	RS-483 1160'-1180'	-0.1	0.46	26	7.5	14	4	1.12	0.6	-1	3	5	1.90
60	RS-483 1180'-1200'	-0.1	0.38	8	8.4	10	-1	1.18	0.7	-1	9	5	1.93
61	RS-483 1200'-1220'	-0.1	0.29	4	7.6	11	3	0.47	0.7	-1	25	10	1.87
62	RS-483 1220'-1240'	-0.1	0.29	3	7.6	7	2	0.34	1.1	-1	20	15	1.84
63	RS-483 1240'-1260'	-0.1	0.18	22	9.0	8	2	0.16	0.9	-1	19	9	2.14
64	RS-483 1260'-1280'	0.1	0.20	25	8.1	6	-1	0.20	0.6	-1	19	7	2.02
65	RS-483 1280'-1300'	-0.1	0.26	10	6.4	9	4	0.35	-0.5	-1	12	7	1.55
66	RS-483 1300'-1320'	0.5	0.12	58	9.4	8	6	0.12	0.8	-1	42	9	2.28
67	RS-483 1320'-1340'	-0.1	0.17	33	9.0	10	3	0.20	0.7	-1	18	4	2.30
68	RS-483 1340'-1360'	-0.1	0.16	34	7.5	10	5	0.15	0.6	-1	19	4	1.89
69	RS-483 1360'-1380'	-0.1	0.12	36	7.3	8	2	0.17	-0.5	-1	21	6	1.82

100-00-78	Sample Designation	Mercury	Potassium	Lanthanum	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorous	Lead
		AA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppb	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
34	RS-483 660'-680'	23	0.15	15	0.03	800	2	0.06	2	261	20
35	RS-483 680'-700'	38	0.13	16	0.02	789	3	0.06	2	252	17
36	RS-483 700'-720'	26	0.18	18	0.02	983	2	0.05	2	217	16
37	RS-483 720'-740'	76	0.22	25	0.02	607	2	0.05	2	81	20
38	RS-483 740'-760'	47	0.26	28	0.02	774	2	0.06	2	61	28
39	RS-483 760'-780'	70	0.28	28	0.02	460	2	0.06	2	77	24
40	RS-483 780'-800'	64	0.27	31	0.01	349	3	0.05	2	78	19
41	RS-483 800'-820'	64	0.33	31	0.02	598	2	0.06	1	62	22
42	RS-483 820'-840'	59	0.25	29	0.01	1340	4	0.08	2	63	22
43	RS-483 840'-860'	50	0.20	25	0.02	1027	3	0.06	1	50	20
44	RS-483 860'-880'	88	0.25	29	0.01	1173	2	0.05	2	52	19
45	RS-483 880'-900'	59	0.26	28	0.02	769	3	0.05	1	56	16
46	RS-483 900'-920'	53	0.22	26	0.02	791	7	0.06	3	47	33
47	RS-483 920'-940'	53	0.26	31	0.03	520	4	0.05	3	78	28
48	RS-483 940'-960'	88	0.26	30	0.03	655	3	0.05	2	87	17
49	RS-483 960'-980'	199	0.31	34	-0.01	3750	6	0.08	1	49	29
50	RS-483 980'-1000'	88	0.30	33	-0.01	1429	4	0.06	-1	47	22
51	RS-483 1000'-1020'	346	0.24	28	-0.01	3804	9	0.09	2	39	22
52	RS-483 1020'-1040'	369	0.22	27	-0.01	6342	11	0.13	4	-1	22
53	RS-483 1040'-1060'	302	0.21	30	-0.01	533	3	0.02	1	41	17
54	RS-483 1060'-1080'	258	0.23	26	-0.01	498	2	0.01	1	40	19
55	RS-483 1080'-1100'	108	0.25	38	0.02	381	3	0.10	1	65	21
56	RS-483 1100'-1120'	56	0.23	32	0.03	959	5	0.07	2	66	28
57	RS-483 1120'-1140'	73	0.16	23	0.02	1064	6	0.06	2	34	20
58	RS-483 1140'-1160'	32	0.22	31	0.02	862	4	0.05	-1	35	17
59	RS-483 1160'-1180'	100	0.28	33	0.02	578	2	0.06	-1	46	34
60	RS-483 1180'-1200'	94	0.19	27	0.02	1159	4	0.06	-1	24	36
61	RS-483 1200'-1220'	18	0.14	20	0.02	795	6	0.06	2	49	18
62	RS-483 1220'-1240'	59	0.14	20	0.02	860	5	0.07	2	44	19
63	RS-483 1240'-1260'	243	0.13	19	0.01	668	5	0.10	4	34	18
64	RS-483 1260'-1280'	223	0.14	19	0.01	424	6	0.05	4	45	21
65	RS-483 1280'-1300'	88	0.18	25	0.02	478	5	0.05	2	55	30
66	RS-483 1300'-1320'	487	0.13	15	-0.01	56	7	0.06	7	34	22
67	RS-483 1320'-1340'	325	0.17	18	-0.01	58	2	0.05	3	53	21
68	RS-483 1340'-1360'	311	0.18	21	-0.01	40	3	0.05	4	37	22
69	RS-483 1360'-1380'	293	0.15	20	-0.01	32	2	0.06	3	96	22

100-00-78	Sample Designation	Antimony ICP ppm	Selenium ICP ppm	Strontium ICP ppm	Titanium ICP %	Thallium ICP ppm	Vanadium ICP ppm	Tungsten ICP ppm	Zinc ICP ppm
34	RS-483 660'-680'	-2	-5	29	0.02	-0.5	-2	2	95
35	RS-483 680'-700'	-2	-5	21	0.02	-0.5	-2	-1	92
36	RS-483 700'-720'	-2	-5	35	0.01	-0.5	-2	2	82
37	RS-483 720'-740'	-2	-5	18	-0.01	-0.5	-2	1	74
38	RS-483 740'-760'	-2	-5	21	-0.01	-0.5	-2	2	90
39	RS-483 760'-780'	-2	-5	21	-0.01	-0.5	-2	1	94
40	RS-483 780'-800'	-2	-5	19	-0.01	-0.5	-2	-1	74
41	RS-483 800'-820'	-2	-5	20	-0.01	-0.5	-2	2	82
42	RS-483 820'-840'	-2	-5	30	-0.01	-0.5	-2	1	119
43	RS-483 840'-860'	-2	-5	22	-0.01	-0.5	-2	1	88
44	RS-483 860'-880'	-2	-5	49	-0.01	-0.5	-2	1	84
45	RS-483 880'-900'	-2	-5	38	-0.01	-0.5	-2	1	80
46	RS-483 900'-920'	-2	-5	31	-0.01	-0.5	-2	2	86
47	RS-483 920'-940'	-2	-5	39	-0.01	-0.5	-2	-1	74
48	RS-483 940'-960'	-2	-5	36	-0.01	-0.5	-2	-1	79
49	RS-483 960'-980'	12	-5	55	-0.01	-0.5	-2	3	113
50	RS-483 980'-1000'	-2	-5	27	-0.01	-0.5	-2	1	89
51	RS-483 1000'-1020'	20	-5	63	-0.01	-0.5	-2	2	136
52	RS-483 1020'-1040'	19	-5	159	-0.01	-0.5	-2	2	178
53	RS-483 1040'-1060'	5	-5	15	-0.01	-0.5	-2	-1	37
54	RS-483 1060'-1080'	4	-5	14	-0.01	-0.5	-2	-1	30
55	RS-483 1080'-1100'	-2	-5	12	-0.01	-0.5	-2	1	140
56	RS-483 1100'-1120'	-2	-5	13	-0.01	-0.5	-2	-1	102
57	RS-483 1120'-1140'	-2	-5	14	-0.01	-0.5	-2	-1	84
58	RS-483 1140'-1160'	-2	-5	28	-0.01	-0.5	-2	2	75
59	RS-483 1160'-1180'	-2	-5	23	-0.01	-0.5	-2	-1	80
60	RS-483 1180'-1200'	-2	-5	25	-0.01	-0.5	-2	-1	82
61	RS-483 1200'-1220'	-2	-5	11	-0.01	-0.5	-2	-1	86
62	RS-483 1220'-1240'	-2	-5	8	-0.01	-0.5	-2	1	94
63	RS-483 1240'-1260'	3	-5	6	-0.01	-0.5	-2	2	138
64	RS-483 1260'-1280'	3	-5	6	-0.01	-0.5	-2	2	77
65	RS-483 1280'-1300'	-2	-5	8	-0.01	-0.5	-2	2	74
66	RS-483 1300'-1320'	7	-5	5	-0.01	-0.5	-2	2	99
67	RS-483 1320'-1340'	5	-5	7	-0.01	-0.5	-2	1	81
68	RS-483 1340'-1360'	4	-5	5	-0.01	-0.5	-2	1	78
69	RS-483 1360'-1380'	4	-5	5	-0.01	-0.5	-2	1	87

100-00-78	Sample Designation	Silver	Aluminum	Arsenic	Boron	Barium	Bismuth	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
70	RS-483 1380'-1400'	-0.1	0.18	35	8.9	8	6	0.27	0.6	-1	30	6	2.26
71	RS-483 1400'-1420'	-0.1	0.33	6	6.8	13	5	1.29	0.7	-1	10	33	1.71
72	RS-483 1420'-1440'	0.2	0.30	4	6.1	15	2	2.13	0.5	-1	39	6	1.60
73	RS-483 1440'-1460'	0.1	0.44	3	8.7	16	4	1.34	0.6	-1	27	5	2.28
74	RS-483 1460'-1480'	0.1	0.45	25	8.8	14	-1	1.79	0.8	-1	13	16	2.27
75	RS-483 1480'-1500'	0.2	0.40	13	7.4	16	3	1.70	0.6	-1	17	13	1.98
76	RS-483 1500'-1520'	0.1	0.40	14	7.6	15	5	1.26	0.5	-1	20	10	1.99
77	RS-483 1520'-1540'	0.1	0.44	6	7.3	10	2	1.21	0.6	-1	17	6	1.91
78	RS-483 1540'-1560'	-0.1	0.42	2	6.9	12	3	1.04	0.6	-1	21	7	1.78
79	RS-483 1560'-1580'	-0.1	0.42	-2	7.3	13	7	1.01	-0.5	-1	25	6	1.84
80	RS-483 1580'-1600'	0.2	0.31	4	7.0	9	2	0.56	0.6	-1	26	6	1.70
81	RS-483 1600'-1605'	0.2	0.39	2	7.6	10	9	0.99	0.7	-1	23	7	1.88

100-00-78	Sample Designation	Mercury	Potassium	Lanthanum	Magnesium	Manganese	Molybdenum	Sodium	Nickel	Phosphorous	Lead
		AA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
		ppb	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
70	RS-483 1380'-1400'	252	0.16	19	-0.01	189	4	0.05	3	48	24
71	RS-483 1400'-1420'	67	0.20	26	0.02	639	2	0.06	1	40	26
72	RS-483 1420'-1440'	76	0.16	22	0.02	656	2	0.04	2	48	24
73	RS-483 1440'-1460'	82	0.20	20	0.03	972	2	0.04	1	76	20
74	RS-483 1460'-1480'	70	0.20	23	0.03	798	4	0.05	-1	41	24
75	RS-483 1480'-1500'	91	0.20	22	0.02	722	4	0.04	1	36	21
76	RS-483 1500'-1520'	50	0.17	19	0.03	618	3	0.04	1	37	18
77	RS-483 1520'-1540'	38	0.12	14	0.04	594	2	0.04	-1	60	15
78	RS-483 1540'-1560'	73	0.14	16	0.03	613	2	0.04	-1	75	14
79	RS-483 1560'-1580'	62	0.16	19	0.04	633	3	0.05	1	55	16
80	RS-483 1580'-1600'	67	0.09	11	0.02	588	6	0.05	2	35	15
81	RS-483 1600'-1605'	38	0.09	12	0.03	898	4	0.05	1	31	19

CLIENT: Hecla (Rosebud Mine)

100-00-78	Sample Designation	Antimony ICP ppm	Selenium ICP ppm	Strontium ICP ppm	Titanium ICP %	Thallium ICP ppm	Vanadium ICP ppm	Tungsten ICP ppm	Zinc ICP ppm
70	RS-483 1380'-1400'	4	-5	6	-0.01	-0.5	-2	2	74
71	RS-483 1400'-1420'	-2	-5	19	-0.01	-0.5	-2	-1	89
72	RS-483 1420'-1440'	-2	-5	37	-0.01	-0.5	-2	-1	55
73	RS-483 1440'-1460'	-2	-5	25	-0.01	-0.5	-2	-1	64
74	RS-483 1460'-1480'	-2	-5	30	-0.01	-0.5	-2	-1	69
75	RS-483 1480'-1500'	-2	-5	23	-0.01	-0.5	-2	-1	57
76	RS-483 1500'-1520'	-2	-5	20	-0.01	-0.5	-2	-1	67
77	RS-483 1520'-1540'	-2	-5	22	-0.01	-0.5	-2	-1	63
78	RS-483 1540'-1560'	-2	-5	23	-0.01	-0.5	-2	-1	57
79	RS-483 1560'-1580'	-2	-5	25	-0.01	-0.5	-2	1	71
80	RS-483 1580'-1600'	-2	-5	12	-0.01	-0.5	-2	4	70
81	RS-483 1600'-1605'	-2	-5	22	-0.01	-0.5	-2	2	77

Friday, February 04, 2000

By Doug Ha

INSPECTORATE

ROCKY MOUNTAIN GEOCHEMICAL

A MEMBER OF THE INSPECTORATE GROUP OF COMPANIES
840 GREG STREET • SPARKS, NEVADA 89431 • PHONE (775) 359-6311 • FAX (775) 359-2944

Kurt Allen
Hecla (Rosebud Mine)
P.O. Box 2610
Winnemucca, NV 89446 US

Invoice No: 33100463
Invoice Date: 2/3/00
JobNo: 100-00-78
Account No: 00007292

Client PO:

INVOICE

Terms: Net 30 days

Item Description	Qty	Unit Price	Amount
Pulp	321		
Composite	320	$0.70	$224.00
30 Element ICP Pkg.	81	$10.93	$885.33

Sub Total:	$1,109.33
Discount: (0.00%)	$0.00
Discounted Total:	$1,109.33
Add'l Discount: (0.00%)	$0.00
Final Total:	$1,109.33

PLEASE REMIT TO:

Inspectorate America Corp.
P.O. Box 201901
Houston, TX 77216-1901