

ELK CREEK CARBONATITE REE AND PHOSPHATE DATA (SKYLINE LABS)

COMPILED BY R. M. JOECKEL

CONSERVATION AND SURVEY DIVISION

SCHOOL OF NATURAL RESOURCES

UNIVERSITY OF NEBRASKA-LINCOLN

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

Analyses were performed on samples taken from various drill holes identified by either the prefix "EC" (e.g., EC-18) or "CA" (e.g., CA-1). The analyses reported herein are grouped informally by the date of their receipt by Molycorp, Inc.

ELK CREEK CARBONATITE REE DATA (SKYLINE LABS)

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OVERVIEW OF ANALYTICAL DATA

Elemental analyses are presented herein as parts per million (ppm); analyses were performed for multiple elements. Analytical values for the rare-earth elements (REE) lanthanum (La), cerium (Ce), and neodymium (Nd) may be of particular interest to property owners, investors, developers, and the geological community.

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 19 1000-1050" refers to a sample removed from the depth interval 1000 ft to 1050 ft from drill hole 19. A slash (/) may appear in some entries between the drill hole number and the footage, as in the analysis labeled "EC-10/1000-1100". The abbreviation "T.D.", as used in some analysis identifiers, refers to the total depth drilled in a given drill hole (i.e., the greatest depth attained).

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

EC-1
EC-2
EC-5
EC-7
EC-8
EC-9
EC-10
EC-11
EC-14
EC-16
EC-18
EC-19
EC-22

EC-23
EC-24
EC-25
EC-27
EC-28
EC-31
EC-32
EC-33
EC-34
EC-38
EC-39
EC-40

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718



REPORT OF ANALYSIS

JOB NO. DOH 312

August 23, 1984

Analysis for R. Sherer

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 243 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-1 574-700	1150.	2700.	990.
2	EC-1 700-800	1200.	2450.	790.
3	EC-1 800-900	1250.	2300.	680.
4	EC-1 900-1007	1300.	2300.	690.
10	EC-5 623-700	1450.	2550.	790.
11	EC-5 700-800	990.	1900.	610.
12	EC-5 800-900	1050.	2000.	590.
13	EC-5 900-1000	1250.	2550.	930.
14	EC-8 980-1100	1150.	2400.	850.
15	EC-8 1100-1200	1350.	2650.	780.
16	EC-8 1200-1300	1150.	2400.	780.
17	EC-8 1300-1400	740.	1450.	465.
18	EC-8 1400-1500	790.	1600.	600.
19	EC-8 1500-1600	870.	1850.	680.
20	EC-8 1600-1700	620.	1300.	520.
21	EC-8 1700-1800	1000.	2150.	800.
22	EC-8 1800-1900	890.	1850.	700.
23	EC-8 1900-2000	940.	1800.	590.
24	EC-8 2000-2100	1200.	2350.	850.
25	EC-8 2100-2200	960.	1800.	610.
26	EC-8 2200-2300	630.	1250.	445.
27	EC-8 2300-2400	740.	1450.	540.
28	EC-8 2400-2500	950.	1750.	620.
29	EC-8 2500-2597	590.	1100.	350.
30	EC-9 550-600	30.	100.	65.

Dick

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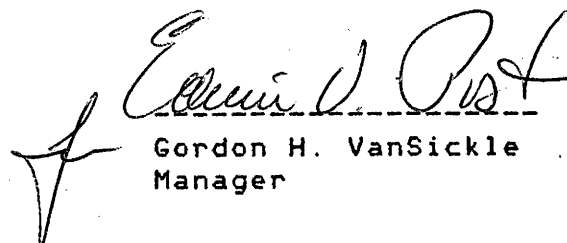
REPORT OF ANALYSIS

JOB NO. DOH 381
October 18, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 4 Pulps

ITEM	SAMPLE NUMBER	La	Ce	Nd
		(ppm)	(ppm)	(ppm)
1	EC-11 665-700	640.	1150.	385.
2	EC-11 700-800	1300.	2600.	900.
3	EC-11 800-900	1600.	2700.	850.
4	EC-11 900-1000	1000.	1800.	560.


Gordon H. VanSickle
Manager

cc: Ray Reynolds, Englewood

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
31	EC-9 0600-0700	<25.	55.	<25.
32	EC-9 0700-0800	75.	135.	80.
33	EC-9 0800-0900	50.	155.	70.
34	EC-9 0900-1000	<25.	50.	40.
35	EC-9 1000-1100	45.	100.	60.
36	EC-9 1100-1200	40.	90.	35.
37	EC-9 1200-1300	50.	135.	50.
38	EC-9 1300-1365	55.	125.	35.
43	EC-11 1000-1100	65.	320.	285.
44	EC-11 1100-1200	500.	1400.	550.
45	EC-11 1200-1300	465.	1050.	385.
46	EC-11 1300-1400	580.	1350.	530.
47	EC-11 1400-1500	445.	1150.	450.
48	EC-11 1500-1600	340.	880.	380.
49	EC-11 1600-1700	310.	890.	405.
50	EC-11 1700-1800	335.	910.	370.
51	EC-11 1800-1900	300.	810.	370.
52	EC-11 1900-2000	175.	690.	375.
53	EC-11 2000-2100	280.	830.	390.
54	EC-11 2100-2200	160.	580.	345.
55	EC-11 2200-2300	245.	710.	355.
56	EC-11 2300-2400	50.	235.	205.
57	EC-11 2400-2525 2524	35.	160.	190.
58	EC-14 633-700	375.	730.	275.
59	EC-14 0700-0800	330.	670.	275.
60	EC-14 0800-0900	235.	540.	280.
61	EC-14 0900-1000	205.	610.	290.
62	EC-14 1000-1100	460.	990.	350.
63	EC-14 1100-1200	255.	670.	290.
64	EC-14 1200-1300	265.	780.	340.
65	EC-14 1300-1400	335.	990.	450.
66	EC-14 1400-1500	210.	740.	470.
67	EC-14 1500-1600	260.	640.	345.
68	EC-14 1600-1700	290.	800.	375.
69	EC-14 1700-1800	375.	1100.	570.

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
70	EC-14 1800-1900	270.	830.	430.
71	EC-14 1900-2000	290.	730.	285.
72	EC-14 2000-2100	235.	670.	320.
73	EC-14 2100-2200	135.	470.	325.
74	EC-14 2200-2320 2322	240.	700.	340.
113	EC-23 520-600	150.	265.	65.
114	EC-23 0600-0700	70.	135.	55.
115	EC-23 0700-0800	40.	90.	45.
116	EC-23 0800-0900	50.	105.	50.
117	EC-23 0900-1000	35.	70.	35.
118	EC-23 1000-1100	45.	90.	35.
119	EC-23 1100-1200	50.	120.	35.
120	EC-23 1200-1300	45.	85.	40.
121	EC-23 1300-1375	35.	45.	30.
130	EC-28 630-700	230.	630.	245.
131	EC-28 0700-0800	250.	730.	260.
132	EC-28 0800-0900	250.	750.	305.
133	EC-28 0900-1000	205.	530.	235.
134	EC-28 1000-1100	325.	870.	370.
135	EC-28 1100-1200	220.	650.	290.
136	EC-28 1200-1300	210.	590.	210.
137	EC-28 1300-1400	220.	700.	260.
138	EC-28 1400-1500	215.	650.	300.
139	EC-28 1500-1600	250.	720.	295.
140	EC-28 1600-1700	170.	600.	315.
141	EC-28 1700-1800	180.	570.	295.
142	EC-28 1800-1900	115.	510.	290.
143	EC-28 1900-2000	175.	490.	265.
144	EC-28 2000-2100	180.	405.	165.
145	EC-28 2100-2200	485.	930.	380.
146	EC-28 2200-2300	405.	760.	295.
147	EC-28 2300-2400	530.	870.	345.
148	EC-28 2400-2500	360.	790.	355.
149	EC-28 2500-2525	480.	790.	355.
150	EC-31 650-700	280.	490.	155.

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
151	EC-31 0700-0800	700.	1250.	430.
152	EC-31 0800-0900	435.	830.	315.
153	EC-31 0900-1000	325.	600.	210.
154	EC-31 1000-1100	170.	370.	175.
155	EC-31 1100-1200	140.	355.	190.
156	EC-31 1200-1300	205.	425.	165.
157	EC-31 1300-1400	260.	500.	205.
158	EC-31 1400-1500	160.	410.	175.
159	EC-31 1500-1600	125.	290.	150.
160	EC-31 1600-1681	180.	490.	200.
161	EC-32 640-700	285.	580.	305.
162	EC-32 0700-0800	290.	590.	245.
163	EC-32 0800-0900	250.	500.	215.
164	EC-32 0900-1000	245.	480.	215.
165	EC-32 1000-1100	250.	520.	220.
166	EC-32 1100-1200	220.	460.	220.
167	EC-32 1200-1300	280.	600.	305.
168	EC-32 1300-1400	245.	500.	235.
169	EC-32 1400-1500	200.	415.	205.
170	EC-32 1500-1600	385.	710.	280.
171	EC-32 1600-1700	220.	485.	210.
172	EC-32 1700-1800	190.	455.	200.
173	EC-32 1800-1900	345.	580.	215.
174	EC-32 1900-2000	390.	720.	275.
175	EC-32 2000-2100	230.	460.	190.
176	EC-32 2100-2235	180.	370.	175.
177	EC-33 630-700	280.	730.	335.
178	EC-33 0700-0800	300.	580.	200.
179	EC-33 0800-0900	220.	375.	145.
180	EC-33 0900-1000	210.	445.	175.
181	EC-33 1000-1100	135.	285.	120.
182	EC-33 1100-1200	65.	220.	210.
183	EC-33 1200-1330	195.	445.	265.
184	EC-34 660-700	210.	450.	220.
185	EC-34 0700-0800	105.	310.	120.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
186	EC-34 0800-0900	85.	240.	170.
187	EC-34 0900-1000	275.	690.	295.
188	EC-34 1000-1100	190.	420.	220.
189	EC-34 1100-1190	140.	330.	175.
225	EC-40 660-700	465.	1100.	395.
226	EC-40 0700-0800	135.	500.	175.
227	EC-40 0800-0900	185.	550.	145.
228	EC-40 0900-1000	215.	460.	155.
229	EC-40 1000-1100	210.	520.	140.
230	EC-40 1100-1200	270.	660.	210.
231	EC-40 1200-1300	205.	425.	185.
232	EC-40 1300-1400	240.	570.	295.
233	EC-40 1400-1500	235.	530.	270.
234	EC-40 1500-1600	530.	1100.	530.
235	EC-40 1600-1700	115.	240.	130.
236	EC-40 1700-1800	205.	405.	215.
237	EC-40 1800-1900	145.	330.	195.
238	EC-40 1900-2000	175.	335.	190.
239	EC-40 2000-2100	220.	435.	230.
240	EC-40 2100-2200	180.	435.	165.
241	EC-40 2200-2300	125.	375.	280.
242	EC-40 2300-2400	225.	600.	195.
243	EC-40 2400-2483	155.	360.	145.

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
1	EC-1 574-700	40000.	.11	55.
2	EC-1 700-800	26000.	.11	50.
3	EC-1 800-900	22000.	.11	55.
4	EC-1 900-1007	23500.	.11	55.
5	EC-2 623-700	2950.	.07	55.
6	EC-2 0700-0800	12500.	.10	50.
7	EC-2 0800-0900	44000.	.09	30.
8	EC-2 0900-1000	16000.	.07	40.
9	EC-2 1000-1041	10500.	.06	45.
10	EC-5 623-700	22500.	.14	35.
11	EC-5 700-800	15000.	.13	40.
12	EC-5 800-900	27000.	.07	30.
13	EC-5 900-1000	14500.	.11	30.
14	EC-8 980-1100	16500.	.10	45.
15	EC-8 1100-1200	14000.	.09	65.
16	EC-8 1200-1300	17500.	.10	60.
17	EC-8 1300-1400	8700.	.12	40.
18	EC-8 1400-1500	9100.	.14	<25.
19	EC-8 1500-1600	14500.	.11	<25.
20	EC-8 1600-1700	6700.	.11	25.
21	EC-8 1700-1800	26000.	.10	<25.
22	EC-8 1800-1900	12500.	.09	<25.
23	EC-8 1900-2000	9650.	.10	<25.
24	EC-8 2000-2100	16000.	.10	<25.
25	EC-8 2100-2200	34500.	.09	<25.
26	EC-8 2200-2300	14000.	.10	25.
27	EC-8 2300-2400	19000.	.11	35.
28	EC-8 2400-2500	14500.	.11	35.
29	EC-8 2500-2597	16500.	.10	35.
30	EC-9 550-600	870.	2.60	<25.
31	EC-9 0600-0700	890.	2.90	<25.
32	EC-9 0700-0800	1350.	2.20	25.
33	EC-9 0800-0900	1100.	3.00	<25.
34	EC-9 0900-1000	900.	3.40	<25.
35	EC-9 1000-1100	1200.	2.50	<25.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
36	EC-9 1100-1200	1000.	3.30	<25.
37	EC-9 1200-1300	1200.	3.50	25.
38	EC-9 1300-1365	1250.	2.50	<25.
39	EC-11 665-700	15500.	.54	180.
40	EC-11 0700-0800	23500.	.13	95.
41	EC-11 0800-0900	43500.	.13	200.
42	EC-11 0900-1000	56500.	.24	185.
43	EC-11 1000-1100	110000.	.16	145.
44	EC-11 1100-1200	42000.	.34	170.
45	EC-11 1200-1300	26000.	.40	130.
46	EC-11 1300-1400	25500.	.32	150.
47	EC-11 1400-1500	27000.	.17	115.
48	EC-11 1500-1600	22000.	.69	145.
49	EC-11 1600-1700	28500.	.58	185.
50	EC-11 1700-1800	22000.	.49	245.
51	EC-11 1800-1900	26000.	.64	200.
52	EC-11 1900-2000	42500.	.85	200.
53	EC-11 2000-2100	33000.	1.40	230.
54	EC-11 2100-2200	51500.	.18	185.
55	EC-11 2200-2300	31000.	.13	110.
56	EC-11 2300-2400	69000.	.15	120.
57	EC-11 2400-2525 2524	63000.	.12	100.
58	EC-14 633-700	9550.	.08	105.
59	EC-14 0700-0800	6000.	.10	130.
60	EC-14 0800-0900	8950.	.08	130.
61	EC-14 0900-1000	23500.	.09	155.
62	EC-14 1000-1100	22500.	.25	145.
63	EC-14 1100-1200	18000.	.27	155.
64	EC-14 1200-1300	27500.	.25	220.
65	EC-14 1300-1400	37500.	.56	325.
66	EC-14 1400-1500	44500.	.44	380.
67	EC-14 1500-1600	18000.	.10	210.
68	EC-14 1600-1700	26000.	.13	295.
69	EC-14 1700-1800	33000.	.30	470.
70	EC-14 1800-1900	32500.	1.00	360.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
71	EC-14 1900-2000	18500.	.33	175.
72	EC-14 2000-2100	34000.	.17	315.
73	EC-14 2100-2200	43500.	.08	260.
74	EC-14 2200-2320 2322	30500.	.08	225.
75	EC-16 709-800	7350.	.08	65.
76	EC-16 0800-0900	7050.	.08	135.
77	EC-16 0900-1000	8500.	.08	105.
78	EC-16 1000-1100	17500.	.19	155.
79	EC-16 1100-1200	18000.	.33	195.
80	EC-16 1200-1300	28500.	.31	290.
81	EC-16 1300-1400	21000.	.13	105.
82	EC-16 1400-1500	40000.	.11	135.
83	EC-16 1500-1600	17500.	.08	95.
84	EC-16 1600-1700	45500.	.12	225.
85	EC-16 1700-1800	35000.	.14	205.
86	EC-16 1800-1900	54000.	.11	500.
87	EC-16 1900-2000	67000.	.09	475.
88	EC-16 2000-2100	56500.	.13	455.
89	EC-16 2100-2200	60500.	.18	650.
90	EC-16 2200-2300	33000.	.18	365.
91	EC-16 2300-2400	34500.	.16	335.
92	EC-16 2400-2500	41000.	.12	280.
93	EC-16 2500-2600	27500.	.10	305.
94	EC-16 2600-2682	14500.	.08	175.
95	EC-22 666-710	10500.	.10	80.
96	EC-22 710-800	10500.	.11	140.
97	EC-22 0800-0900	31000.	.08	205.
98	EC-22 0900-1000	7950.	.07	155.
99	EC-22 1000-1100	6150.	.06	85.
100	EC-22 1100-1200	7550.	.05	85.
101	EC-22 1200-1300	15000.	.09	100.
102	EC-22 1300-1400	15000.	.10	95.
103	EC-22 1400-1500	21500.	.09	140.
104	EC-22 1500-1600	27500.	.09	190.
105	EC-22 1600-1700	12000.	.12	130.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
106	EC-22 1700-1800	25500.	.22	210.
107	EC-22 1800-1900	45000.	.37	630.
108	EC-22 1900-2000	22000.	.31	335.
109	EC-22 2000-2100	14500.	.12	195.
110	EC-22 2100-2200	31500.	.07	320.
111	EC-22 2200-2300	39000.	.09	365.
112	EC-22 2300-2400	20000.	.11	210.
113	EC-23 520-600	1100.	2.50	<25.
114	EC-23 0600-0700	1100.	2.50	<25.
115	EC-23 0700-0800	2400.	2.60	<25.
116	EC-23 0800-0900	1050.	2.70	<25.
117	EC-23 0900-1000	1050.	3.00	<25.
118	EC-23 1000-1100	1050.	2.70	<25.
119	EC-23 1100-1200	1350.	2.70	<25.
120	EC-23 1200-1300	1350.	2.90	<25.
121	EC-23 1300-1375	540.	2.30	<25.
122	EC-24 635-700	6800.	.10	190.
123	EC-24 700-800	16000.	.09	150.
124	EC-24 800-900	12000.	.07	110.
125	EC-24 900-925	13500.	.07	110.
126	EC-25 630-700	13500.	.21	175.
127	EC-25 700-800	6200.	.05	65.
128	EC-25 800-900	15000.	.06	85.
129	EC-25 900-999	12000.	.06	75.
130	EC-28 630-700	20500.	.17	100.
131	EC-28 0700-0800	29000.	.09	100.
132	EC-28 0800-0900	29000.	.13	105.
133	EC-28 0900-1000	28000.	.18	60.
134	EC-28 1000-1100	30000.	.19	140.
135	EC-28 1100-1200	28000.	.08	60.
136	EC-28 1200-1300	13500.	.12	75.
137	EC-28 1300-1400	30000.	.07	80.
138	EC-28 1400-1500	26000.	.09	150.
139	EC-28 1500-1600	32500.	.13	175.
140	EC-28 1600-1700	47500.	.12	300.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
141	EC-28 1700-1800	38500.	.29	190.
142	EC-28 1800-1900	54500.	.15	250.
143	EC-28 1900-2000	62000.	.14	285.
144	EC-28 2000-2100	19000.	.25	95.
145	EC-28 2100-2200	32000.	.12	305.
146	EC-28 2200-2300	12500.	.13	305.
147	EC-28 2300-2400	50500.	.11	410.
148	EC-28 2400-2500	47500.	.12	380.
149	EC-28 2500-2525	45500.	.11	690.
150	EC-31 650-700	7350.	.21	110.
151	EC-31 0700-0800	61500.	.13	290.
152	EC-31 0800-0900	48500.	.09	215.
153	EC-31 0900-1000	10500.	.14	65.
154	EC-31 1000-1100	18000.	.07	210.
155	EC-31 1100-1200	1800.	.07	230.
156	EC-31 1200-1300	8450.	.07	150.
157	EC-31 1300-1400	6450.	.10	115.
158	EC-31 1400-1500	8500.	.07	145.
159	EC-31 1500-1600	5900.	.09	175.
160	EC-31 1600-1681	9700.	.08	195.
161	EC-32 640-700	8900.	.15	330.
162	EC-32 0700-0800	16000.	.11	175.
163	EC-32 0800-0900	19000.	.10	150.
164	EC-32 0900-1000	18000.	.18	240.
165	EC-32 1000-1100	23000.	.09	165.
166	EC-32 1100-1200	17000.	.11	150.
167	EC-32 1200-1300	21000.	.12	230.
168	EC-32 1300-1400	19000.	.08	195.
169	EC-32 1400-1500	21500.	.11	175.
170	EC-32 1500-1600	24000.	.10	150.
171	EC-32 1600-1700	17500.	.21	135.
172	EC-32 1700-1800	17500.	.17	145.
173	EC-32 1800-1900	21000.	.17	135.
174	EC-32 1900-2000	25500.	.32	175.
175	EC-32 2000-2100	14500.	.18	125.

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
176	EC-32 2100-2235	10500.	.19	185.
177	EC-33 630-700	47500.	.14	95.
178	EC-33 0700-0800	9600.	.07	95.
179	EC-33 0800-0900	7400.	.07	120.
180	EC-33 0900-1000	11000.	.07	120.
181	EC-33 1000-1100	6150.	.07	95.
182	EC-33 1100-1200	18500.	.06	120.
183	EC-33 1200-1330	7250.	.11	185.
184	EC-34 660-700	4050.	.11	100.
185	EC-34 0700-0800	22000.	.06	40.
186	EC-34 0800-0900	16500.	.13	120.
187	EC-34 0900-1000	14500.	.06	170.
188	EC-34 1000-1100	3700.	.07	165.
189	EC-34 1100-1190	4850.	.07	125.
190	EC-38 760-800	2350.	.12	135.
191	EC-38 0800-0900	9900.	.07	105.
192	EC-38 0900-1000	8750.	.07	90.
193	EC-38 1000-1100	3500.	.07	65.
194	EC-38 1100-1200	8500.	.05	60.
195	EC-38 1200-1300	16000.	.07	60.
196	EC-38 1300-1400	15500.	.04	50.
197	EC-38 1400-1500	5800.	.13	40.
198	EC-38 1500-1600	13000.	.08	60.
199	EC-38 1600-1700	4100.	.06	50.
200	EC-38 1700-1800	4550.	.06	75.
201	EC-38 1800-1900	2300.	.06	95.
202	EC-38 1900-2000	4200.	.07	135.
203	EC-38 2000-2100	1750.	.05	100.
204	EC-38 2100-2200	2400.	.12	95.
205	EC-38 2200-2300	6600.	.11	55.
206	EC-38 2300-2400	2900.	.05	105.
207	EC-38 2400-2490	3500.	.05	60.
208	EC-39 780-900	3400.	.06	60.
209	EC-39 0900-1000	12000.	.03	30.
210	EC-39 1000-1100	4350.	.03	35.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)
211	EC-39 1100-1200	1600.	.04	75.
212	EC-39 1200-1300	3400.	.06	45.
213	EC-39 1300-1400	2950.	.06	70.
214	EC-39 1400-1500	7850.	.06	90.
215	EC-39 1500-1610	3050.	.06	55.
216	EC-39 1610-1700	8750.	.07	<25.
217	EC-39 1700-1800	3900.	.08	40.
218	EC-39 1800-1900	840.	.07	65.
219	EC-39 1900-2000	1050.	.05	60.
220	EC-39 2000-2100	470.	.05	65.
221	EC-39 2100-2200	770.	.05	60.
222	EC-39 2200-2300	300.	.03	70.
223	EC-39 2300-2400	260.	.05	105.
224	EC-39 2400-2482	1100.	.06	40.
225	EC-40 660-700	9300.	.14	75.
226	EC-40 0700-0800	13000.	.08	55.
227	EC-40 0800-0900	14000.	.07	40.
228	EC-40 0900-1000	5950.	.09	65.
229	EC-40 1000-1100	7400.	.07	95.
230	EC-40 1100-1200	5450.	.08	80.
231	EC-40 1200-1300	6000.	.08	60.
232	EC-40 1300-1400	11500.	.08	75.
233	EC-40 1400-1500	6850.	.06	80.
234	EC-40 1500-1600	8000.	.12	220.
235	EC-40 1600-1700	4750.	.06	80.
236	EC-40 1700-1800	5000.	.07	45.
237	EC-40 1800-1900	10000.	.07	50.
238	EC-40 1900-2000	5100.	.07	70.
239	EC-40 2000-2100	5500.	.10	110.
240	EC-40 2100-2200	4750.	.06	45.
241	EC-40 2200-2300	9000.	.08	85.
242	EC-40 2300-2400	6200.	.09	50.
243	EC-40 2400-2483	5000.	.10	30.

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
1	EC-1 574-700	6.	135.	.85	400.
2	EC-1 700-800	6.	115.	1.00	280.
3	EC-1 800-900	8.	110.	1.00	310.
4	EC-1 900-1007	8.	120.	.90	285.
5	EC-2 623-700	6.	140.	.44	75.
6	EC-2 0700-0800	5.	185.	.78	95.
7	EC-2 0800-0900	5.	165.	.44	75.
8	EC-2 0900-1000	5.	130.	.20	45.
9	EC-2 1000-1041	8.	55.	.08	30.
10	EC-5 623-700	4.	240.	.48	190.
11	EC-5 700-800	7.	170.	.66	195.
12	EC-5 800-900	3.	200.	.10	130.
13	EC-5 900-1000	3.	235.	.10	150.
14	EC-8 980-1100	4.	155.	.45	195.
15	EC-8 1100-1200	5.	115.	.54	165.
16	EC-8 1200-1300	6.	140.	.57	165.
17	EC-8 1300-1400	7.	160.	.68	195.
18	EC-8 1400-1500	5.	200.	1.10	255.
19	EC-8 1500-1600	5.	170.	.80	195.
20	EC-8 1600-1700	6.	155.	1.50	190.
21	EC-8 1700-1800	7.	100.	.34	145.
22	EC-8 1800-1900	7.	230.	.29	135.
23	EC-8 1900-2000	7.	170.	.48	175.
24	EC-8 2000-2100	6.	110.	.55	200.
25	EC-8 2100-2200	8.	120.	.50	195.
26	EC-8 2200-2300	9.	95.	.65	190.
27	EC-8 2300-2400	12.	160.	1.30	285.
28	EC-8 2400-2500	9.	105.	.89	220.
29	EC-8 2500-2597	10.	95.	.54	140.
30	EC-9 550-600	3.	75.	.47	70.
31	EC-9 0600-0700	<2.	35.	.23	50.
32	EC-9 0700-0800	2.	85.	.56	110.
33	EC-9 0800-0900	<2.	100.	.92	180.
34	EC-9 0900-1000	<2.	65.	.44	80.
35	EC-9 1000-1100	3.	80.	.77	145.

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
36	EC-9 1100-1200	3.	70.	.53	85.
37	EC-9 1200-1300	3.	65.	.46	70.
38	EC-9 1300-1365	4.	55.	.56	80.
39	EC-11 665-700	18.	500.	1.10	295.
40	EC-11 0700-0800	12.	245.	.79	275.
41	EC-11 0800-0900	19.	250.	1.40	240.
42	EC-11 0900-1000	18.	350.	2.10	280.
43	EC-11 1000-1100	26.	375.	3.20	370.
44	EC-11 1100-1200	18.	465.	1.40	230.
45	EC-11 1200-1300	12.	520.	1.50	310.
46	EC-11 1300-1400	13.	340.	1.40	255.
47	EC-11 1400-1500	11.	205.	1.50	280.
48	EC-11 1500-1600	26.	530.	1.60	285.
49	EC-11 1600-1700	40.	760.	1.50	285.
50	EC-11 1700-1800	32.	610.	.92	240.
51	EC-11 1800-1900	26.	430.	1.10	240.
52	EC-11 1900-2000	24.	580.	1.90	265.
53	EC-11 2000-2100	38.	800.	1.30	260.
54	EC-11 2100-2200	26.	455.	2.00	275.
55	EC-11 2200-2300	18.	200.	1.30	260.
56	EC-11 2300-2400	30.	255.	2.50	255.
57	EC-11 2400-2525	26.	340.	2.50	240.
58	EC-14 633-700	6.	195.	.45	110.
59	EC-14 0700-0800	9.	210.	.33	95.
60	EC-14 0800-0900	11.	350.	.37	110.
61	EC-14 0900-1000	20.	360.	.82	185.
62	EC-14 1000-1100	17.	415.	1.60	275.
63	EC-14 1100-1200	12.	450.	1.80	315.
64	EC-14 1200-1300	22.	430.	1.80	300.
65	EC-14 1300-1400	60.	1650.	1.80	265.
66	EC-14 1400-1500	70.	2600.	1.60	250.
67	EC-14 1500-1600	40.	660.	1.20	230.
68	EC-14 1600-1700	38.	580.	1.20	280.
69	EC-14 1700-1800	75.	790.	1.40	290.
70	EC-14 1800-1900	60.	580.	1.40	275.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
71	EC-14 1900-2000	30.	260.	.77	245.
72	EC-14 2000-2100	42.	415.	1.50	290.
73	EC-14 2100-2200	30.	860.	1.50	295.
74	EC-14 2200-2320	26.	455.	1.00	275.
75	EC-16 709-800	7.	145.	.26	75.
76	EC-16 0800-0900	10.	235.	.37	115.
77	EC-16 0900-1000	12.	285.	.38	90.
78	EC-16 1000-1100	20.	520.	1.10	215.
79	EC-16 1100-1200	18.	670.	1.70	300.
80	EC-16 1200-1300	60.	1700.	1.70	315.
81	EC-16 1300-1400	24.	540.	1.20	210.
82	EC-16 1400-1500	24.	540.	1.40	275.
83	EC-16 1500-1600	20.	550.	1.20	260.
84	EC-16 1600-1700	14.	880.	1.00	215.
85	EC-16 1700-1800	26.	580.	1.00	220.
86	EC-16 1800-1900	26.	700.	1.70	255.
87	EC-16 1900-2000	34.	470.	1.50	255.
88	EC-16 2000-2100	55.	330.	2.00	300.
89	EC-16 2100-2200	42.	990.	1.60	225.
90	EC-16 2200-2300	28.	600.	1.40	250.
91	EC-16 2300-2400	22.	430.	1.90	245.
92	EC-16 2400-2500	13.	520.	2.20	240.
93	EC-16 2500-2600	19.	320.	1.20	145.
94	EC-16 2600-2682	16.	285.	.28	80.
95	EC-22 666-710	17.	160.	.57	200.
96	EC-22 710-800	16.	205.	.94	245.
97	EC-22 0800-0900	24.	210.	.45	115.
98	EC-22 0900-1000	34.	140.	.27	150.
99	EC-22 1000-1100	30.	185.	.26	70.
100	EC-22 1100-1200	18.	215.	.22	80.
101	EC-22 1200-1300	24.	260.	.68	160.
102	EC-22 1300-1400	26.	280.	.76	180.
103	EC-22 1400-1500	34.	395.	.89	165.
104	EC-22 1500-1600	13.	540.	1.00	195.
105	EC-22 1600-1700	11.	365.	.52	135.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
106	EC-22 1700-1800	60.	770.	1.30	230.
107	EC-22 1800-1900	85.	670.	1.50	225.
108	EC-22 1900-2000	46.	580.	.85	250.
109	EC-22 2000-2100	20.	390.	.74	260.
110	EC-22 2100-2200	24.	940.	1.30	270.
111	EC-22 2200-2300	55.	790.	1.60	285.
112	EC-22 2300-2406	30.	540.	1.50	260.
113	EC-23 520-600	3.	60.	.42	90.
114	EC-23 0600-0700	3.	320.	.80	150.
115	EC-23 0700-0800	3.	80.	.47	85.
116	EC-23 0800-0900	4.	110.	.70	115.
117	EC-23 0900-1000	2.	80.	.49	90.
118	EC-23 1000-1100	2.	105.	.77	120.
119	EC-23 1100-1200	6.	90.	.54	105.
120	EC-23 1200-1300	4.	90.	.53	105.
121	EC-23 1300-1375	2.	90.	1.10	235.
122	EC-24 635-700	28.	105.	.14	100.
123	EC-24 700-800	19.	225.	.38	115.
124	EC-24 800-900	24.	175.	.31	90.
125	EC-24 900-925	14.	170.	.21	55.
126	EC-25 630-700	11.	145.	1.30	180.
127	EC-25 700-800	9.	160.	.69	95.
128	EC-25 800-900	15.	270.	1.00	120.
129	EC-25 900-999	18.	250.	.33	60.
130	EC-28 630-700	36.	480.	1.10	205.
131	EC-28 0700-0800	34.	460.	1.30	220.
132	EC-28 0800-0900	30.	890.	1.30	190.
133	EC-28 0900-1000	70.	850.	1.40	215.
134	EC-28 1000-1100	90.	1050.	1.50	235.
135	EC-28 1100-1200	46.	520.	1.20	210.
136	EC-28 1200-1300	22.	385.	.85	175.
137	EC-28 1300-1400	14.	610.	1.00	205.
138	EC-28 1400-1500	32.	440.	2.00	315.
139	EC-28 1500-1600	50.	700.	1.70	260.
140	EC-28 1600-1700	70.	920.	2.20	260.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
141	EC-28 1700-1800	50.	425.	2.00	260.
142	EC-28 1800-1900	40.	700.	2.30	255.
143	EC-28 1900-2000	30.	690.	2.50	260.
144	EC-28 2000-2100	12.	225.	1.30	235.
145	EC-28 2100-2200	18.	470.	1.70	255.
146	EC-28 2200-2300	26.	315.	1.90	300.
147	EC-28 2300-2400	34.	495.	1.80	245.
148	EC-28 2400-2500	26.	690.	2.40	225.
149	EC-28 2500-2525	85.	1200.	2.70	325.
150	EC-31 650-700	4.	265.	.81	160.
151	EC-31 0700-0800	70.	790.	2.30	320.
152	EC-31 0800-0900	15.	425.	.94	150.
153	EC-31 0900-1000	12.	540.	3.10	345.
154	EC-31 1000-1100	11.	190.	.36	75.
155	EC-31 1100-1200	11.	235.	.25	40.
156	EC-31 1200-1300	8.	130.	.26	45.
157	EC-31 1300-1400	8.	160.	.61	155.
158	EC-31 1400-1500	7.	145.	.55	75.
159	EC-31 1500-1600	6.	185.	.32	50.
160	EC-31 1600-1681	9.	130.	.24	50.
161	EC-32 640-700	24.	330.	.57	205.
162	EC-32 0700-0800	20.	295.	1.50	260.
163	EC-32 0800-0900	32.	320.	1.00	185.
164	EC-32 0900-1000	17.	170.	1.40	235.
165	EC-32 1000-1100	14.	320.	1.60	240.
166	EC-32 1100-1200	13.	250.	2.20	270.
167	EC-32 1200-1300	20.	385.	.96	185.
168	EC-32 1300-1400	24.	445.	.99	180.
169	EC-32 1400-1500	14.	320.	1.90	265.
170	EC-32 1500-1600	17.	490.	1.60	205.
171	EC-32 1600-1700	18.	220.	1.90	275.
172	EC-32 1700-1800	30.	305.	1.60	280.
173	EC-32 1800-1900	32.	465.	1.70	270.
174	EC-32 1900-2000	55.	1000.	2.00	260.
175	EC-32 2000-2100	30.	380.	1.00	210.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
176	EC-32 2100-2235	14.	170.	1.00	160.
177	EC-33 630-700	5.	90.	.63	165.
178	EC-33 0700-0800	7.	85.	.16	60.
179	EC-33 0800-0900	8.	85.	.12	35.
180	EC-33 0900-1000	10.	95.	.13	40.
181	EC-33 1000-1100	5.	185.	.27	60.
182	EC-33 1100-1200	9.	185.	.25	50.
183	EC-33 1200-1330	15.	195.	.14	60.
184	EC-34 660-700	7.	100.	.38	85.
185	EC-34 0700-0800	4.	115.	.24	85.
186	EC-34 0800-0900	7.	105.	.67	85.
187	EC-34 0900-1000	13.	80.	.32	70.
188	EC-34 1000-1100	6.	130.	.14	25.
189	EC-34 1100-1190	6.	85.	.27	45.
190	EC-38 760-800	19.	45.	.52	75.
191	EC-38 0800-0900	13.	65.	.37	40.
192	EC-38 0900-1000	17.	85.	.39	75.
193	EC-38 1000-1100	5.	95.	.38	50.
194	EC-38 1100-1200	8.	55.	.30	50.
195	EC-38 1200-1300	6.	65.	.64	75.
196	EC-38 1300-1400	6.	45.	.20	60.
197	EC-38 1400-1500	6.	50.	.42	95.
198	EC-38 1500-1600	9.	60.	.31	75.
199	EC-38 1600-1700	15.	60.	.35	80.
200	EC-38 1700-1800	15.	125.	.20	70.
201	EC-38 1800-1900	24.	65.	.48	120.
202	EC-38 1900-2000	17.	65.	.18	60.
203	EC-38 2000-2100	12.	60.	.17	45.
204	EC-38 2100-2200	8.	95.	.37	85.
205	EC-38 2200-2300	10.	135.	1.70	275.
206	EC-38 2300-2400	7.	60.	.21	45.
207	EC-38 2400-2490	10.	100.	.16	35.
208	EC-39 780-900	3.	110.	.11	35.
209	EC-39 0900-1000	3.	170.	.06	25.
210	EC-39 1000-1100	5.	105.	.07	40.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	U (ppm)	Zn (ppm)	Ti (%)	V (ppm)
211	EC-39 1100-1200	4.	135.	.16	35.
212	EC-39 1200-1300	3.	125.	.34	50.
213	EC-39 1300-1400	8.	95.	.34	60.
214	EC-39 1400-1500	17.	75.	.07	20.
215	EC-39 1500-1610	11.	25.	.05	10.
216	EC-39 1610-1700	28.	115.	.14	20.
217	EC-39 1700-1800	28.	130.	.18	60.
218	EC-39 1800-1900	10.	115.	.14	30.
219	EC-39 1900-2000	32.	215.	.12	25.
220	EC-39 2000-2100	32.	470.	.04	10.
221	EC-39 2100-2200	22.	195.	.18	30.
222	EC-39 2200-2300	9.	35.	<.02	<10.
223	EC-39 2300-2400	12.	105.	.17	30.
224	EC-39 2400-2482	7.	50.	.08	15.
225	EC-40 660-700	8.	90.	.46	115.
226	EC-40 0700-0800	10.	110.	.61	90.
227	EC-40 0800-0900	17.	140.	.18	35.
228	EC-40 0900-1000	32.	160.	.09	50.
229	EC-40 1000-1100	9.	155.	.14	65.
230	EC-40 1100-1200	10.	175.	.08	55.
231	EC-40 1200-1300	7.	65.	.09	45.
232	EC-40 1300-1400	26.	95.	.09	50.
233	EC-40 1400-1500	18.	85.	.42	105.
234	EC-40 1500-1600	8.	110.	.55	145.
235	EC-40 1600-1700	5.	105.	.15	40.
236	EC-40 1700-1800	6.	100.	.10	45.
237	EC-40 1800-1900	5.	90.	.10	35.
238	EC-40 1900-2000	7.	90.	.11	50.
239	EC-40 2000-2100	10.	170.	.55	150.
240	EC-40 2100-2200	16.	110.	.23	80.
241	EC-40 2200-2300	11.	115.	.18	95.
242	EC-40 2300-2400	6.	100.	.14	90.
243	EC-40 2400-2483	16.	120.	.35	105.

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SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

DEC 27 1983

REPORT OF ANALYSIS

MOLYCORP, INC.
ENCLEWOOD, CO.JOB NO. DOH 243
December 22, 1983Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 33 Pulp Samples

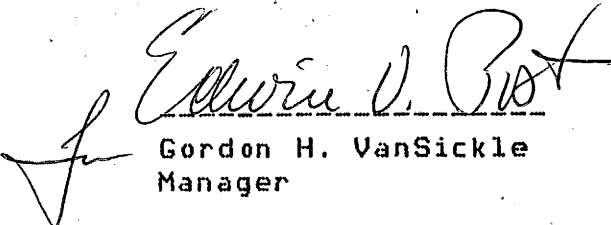
ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	Be (ppm)	Nb205 (ppm)
1	EC-27 0800-900	16500.	320.	10.	2650.
2	EC-27 0900-1000	25000.	270.	15.	3400.
3	EC-27 1000-1050	36500.	270.	16.	4850.
4	EC-27 1100-1200	33500.	225.	22.	3900.
5	EC-27 1200-1300	29500.	250.	24.	5150.
6	EC-27 1300-1400	27500.	255.	30.	5050.
7	EC-27 1400-1500	23000.	235.	40.	3150.
8	EC-27 1550-1600	14500.	245.	22.	3400.
9	EC-27 1600-1700	21500.	215.	34.	4200.
10	EC-27 1700-1800	15500.	195.	24.	2500.
11	EC-27 1800-1900	14000.	85.	15.	2350.
12	EC-27 1900-2000	12000.	115.	13.	2250.
13	EC-27 2000-2100	15500.	195.	20.	2450.
14	EC-27 2100-2200	16000.	250.	26.	2700.
15	EC-27 2250-2303T.D.	14500.	205.	24.	2850.
16	EC-7 0620-700	13000.	65.	7.	1400.
17	EC-7 700-750	3900.	85.	15.	1550.
18	EC-7 850-900	4100.	50.	7.	1350.
19	EC-7 1050-1100	6900.	85.	11.	1250.
20	EC-7 1100-1200	5500.	55.	8.	1050.
21	EC-7 1250-1300	5150.	150.	9.	1350.
22	EC-7 1300-1400	4650.	165.	8.	1150.
23	EC-7 1400-1450	3000.	65.	6.	1200.
24	EC-7 1500-1550	1900.	165.	15.	1200.
25	EC-7 1950-2000	11500.	70.	5.	1600.

ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	Be (ppm)	Nb205 (ppm)
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26	EC-7 2000-2050	6300.	115.	7.	1600.
27	EC-7 2300-2400	10500.	125.	9.	970.
28	EC-7 2400-2450	6050.	120.	6.	1300.
29	EC-18 0628-700	N/R	N/R	N/R	1350.
30	EC-18 0700-0750	N/R	N/R	N/R	1250.
31	EC-18 0750-0800	N/R	N/R	N/R	1150.
32	EC-18 0800-0850	N/R	N/R	N/R	1450.
33	EC-18 0850-0900	N/R	N/R	N/R	1600.

ITEM	SAMPLE NUMBER	Pb (ppm)	Zn (ppm)	Ti (%)	U (ppm)
1	EC-27 0800-900	25.	340.	1.10	26.
2	EC-27 0900-1000	30.	610.	1.20	28.
3	EC-27 1000-1050	25.	750.	1.50	40.
4	EC-27 1100-1200	40.	1000.	1.40	38.
5	EC-27 1200-1300	80.	1350.	1.70	60.
6	EC-27 1300-1400	45.	1100.	1.30	55.
7	EC-27 1400-1500	70.	1050.	.87	24.
8	EC-27 1550-1600	45.	510.	1.20	34.
9	EC-27 1600-1700	35.	550.	.91	26.
10	EC-27 1700-1800	50.	465.	.65	11.
11	EC-27 1800-1900	30.	250.	.51	10.
12	EC-27 1900-2000	45.	310.	.56	9.
13	EC-27 2000-2100	65.	490.	.72	19.
14	EC-27 2100-2200	80.	650.	1.00	20.
15	EC-27 2250-2303T.D.	70.	630.	1.20	24.
16	EC-7 0620-700	10.	95.	.26	6.
17	EC-7 700-750	10.	100.	.62	8.
18	EC-7 850-900	15.	180.	.07	8.
19	EC-7 1050-1100	10.	100.	.33	11.
20	EC-7 1100-1200	15.	100.	.21	12.
21	EC-7 1250-1300	25.	115.	.48	17.
22	EC-7 1300-1400	20.	115.	.75	22.
23	EC-7 1400-1450	15.	85.	.17	24.
24	EC-7 1500-1550	10.	145.	.65	15.
25	EC-7 1950-2000	15.	125.	.10	17.
26	EC-7 2000-2050	20.	100.	.24	18.
27	EC-7 2300-2400	15.	100.	.50	10.
28	EC-7 2400-2450	10.	85.	.56	9.
29	EC-18 0628-700	N/R	N/R	N/R	10.
30	EC-18 0700-0750	N/R	N/R	N/R	9.
31	EC-18 0750-0800	N/R	N/R	N/R	9.
32	EC-18 0800-0850	N/R	N/R	N/R	6.
33	EC-18 0850-0900	N/R	N/R	N/R	7.

ITEM	SAMPLE NUMBER	Na (%)	P205 (%)	Th (ppm)	Zr (ppm)
29	EC-18 0628-700	.08	2.1	45.	255.
30	EC-18 0700-0750	.08	2.2	25.	320.
31	EC-18 0750-0800	.10	3.6	95.	260.
32	EC-18 0800-0850	.09	2.6	85.	335.
33	EC-18 0850-0900	.08	3.0	45.	315.


Gordon H. VanSickle
Manager

NOTE: N/R = Analysis not requested.

cc: ✓ Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 116
October 27, 1982

Molycorp, Inc.
Attn: N. Dimick
P.O. Box 37
Louviers, Colorado 80131

Plotted ✓

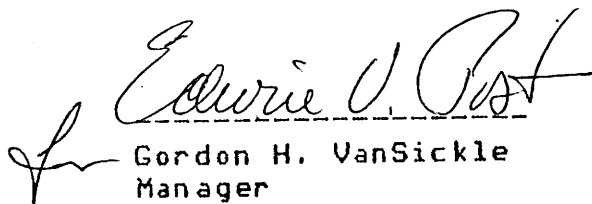
Analysis of 12 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-10/730-795	.13	.42	.48	1150.	30.
2	EC-10/800-900	.08	.05	.32	950.	20.
3	EC-10/900-1000	.10	.05	.31	1300.	20.
4	EC-10/1000-1100	.08	.05	.36	1250.	15.
5	EC-10/1100-1200	.09	.04	.45	1500.	15.
6	EC-10/1200-1300	.09	.05	.29	1300.	15.
7	EC-10/1300-1400	.10	.05	.26	1350.	15.
8	EC-10/1400-1500	.09	.18	.28	1400.	15.
9	EC-10/1500-1600	.08	.05	.25	1900.	15.
10	EC-10/1600-1700	.11	.29	.42	840.	15.
11	EC-10/1700-1800	.09	.05	.22	970.	10.
12	EC-10/1800-1899 T.D.	.10	.05	.31	930.	15.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-10/730-795	<.2	10.	<5.	65.	15.
2	EC-10/800-900	<.2	10.	<5.	50.	10.
3	EC-10/900-1000	<.2	10.	<5.	35.	10.
4	EC-10/1000-1100	<.2	15.	<5.	40.	10.
5	EC-10/1100-1200	<.2	10.	<5.	50.	10.
6	EC-10/1200-1300	<.2	10.	<5.	30.	15.
7	EC-10/1300-1400	<.2	10.	<5.	40.	10.
8	EC-10/1400-1500	.2	10.	<5.	35.	15.
9	EC-10/1500-1600	.2	10.	<5.	45.	20.
10	EC-10/1600-1700	.2	20.	10.	70.	25.
11	EC-10/1700-1800	<.2	10.	<5.	40.	<5.
12	EC-10/1800-1899 T.D.	.2	15.	<5.	35.	10.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-10/730-795	<5.	25.	<2.	.39	9650.
2	EC-10/800-900	<5.	35.	<2.	.35	9900.
3	EC-10/900-1000	<5.	15.	<2.	.32	7650.
4	EC-10/1000-1100	<5.	15.	<2.	.32	12500.
5	EC-10/1100-1200	<5.	25.	<2.	.39	12000.
6	EC-10/1200-1300	<5.	15.	<2.	.28	8600.
7	EC-10/1300-1400	<5.	20.	<2.	.33	7900.
8	EC-10/1400-1500	<5.	25.	4.	.38	10000.
9	EC-10/1500-1600	<5.	20.	4.	.40	15000.
10	EC-10/1600-1700	<5.	25.	<2.	.30	2500.
11	EC-10/1700-1800	<5.	20.	2.	.40	4150.
12	EC-10/1800-1899 T.D.	<5.	20.	<2.	.29	2000.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-10/730-795	7.	6650.	12.	200.	100.
2	EC-10/800-900	7.	6550.	8.	165.	70.
3	EC-10/900-1000	4.	5000.	17.	140.	50.
4	EC-10/1000-1100	6.	5400.	14.	130.	70.
5	EC-10/1100-1200	8.	5850.	15.	150.	100.
6	EC-10/1200-1300	4.	4900.	20.	110.	70.
7	EC-10/1300-1400	5.	4800.	26.	95.	50.
8	EC-10/1400-1500	3.	4700.	20.	110.	30.
9	EC-10/1500-1600	4.	5150.	26.	120.	100.
10	EC-10/1600-1700	4.	4700.	22.	140.	30.
11	EC-10/1700-1800	4.	5650.	16.	105.	50.
12	EC-10/1800-1899 T.D.	3.	4950.	30.	150.	50.


Gordon H. VanSickle
Manager

cc: D. Sherer
Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 295

June 25, 1984

Phase III - 1984

Molycorp, Inc.
Attn: D. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 19 Pulp Samples

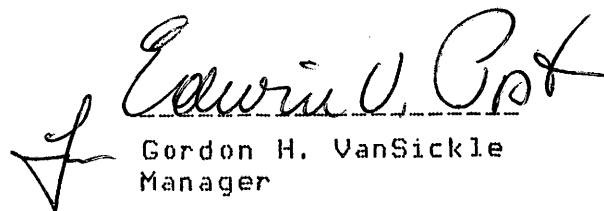
ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Ba (ppm)	Na (%)
1	EC-7 700-800	165.	345.	170.	5900.	.07
2	EC-7 800-900	125.	270.	115.	10000.	.07
3	EC-7 900-1000	195.	410.	190.	10000.	.07
4	EC-7 1000-1100	205.	475.	215.	11500.	.07
5	EC-7 1100-1200	155.	355.	195.	5900.	.06
6	EC-7 1200-1300	240.	520.	200.	4350.	.11
7	EC-7 1400-1500	155.	325.	140.	2400.	.08
8	EC-7 1500-1600	230.	385.	125.	3400.	.10
9	EC-7 1600-1700	345.	710.	245.	4500.	.17
10	EC-7 1700-1800	300.	640.	220.	6750.	.20
11	EC-7 1800-1900	305.	610.	210.	7150.	.22
12	EC-7 1900-2000	195.	375.	125.	8500.	.12
13	EC-7 2000-2100	265.	550.	225.	5800.	.09
14	EC-7 2100-2200	240.	440.	160.	7050.	.07
15	EC-7 2200-2300	195.	510.	230.	13000.	.08
16	EC-7 2400-2475	185.	340.	120.	5350.	.09
17	EC-7 620-700	150.	290.	135.	N/R	.06
18	EC-7 1300-1400	240.	510.	190.	N/R	.08
19	EC-7 2300-2400	295.	640.	245.	N/R	.08

JOB NO. DOH 295

June 25, 1984

PAGE 2

ITEM	SAMPLE NUMBER	Th (ppm)	U (ppm)	Zn (ppm)	Ti (ppm)	V (ppm)
1	EC-7 700-800	70.	7.	130.	4100.	80.
2	EC-7 800-900	65.	7.	195.	1100.	50.
3	EC-7 900-1000	95.	11.	135.	1750.	70.
4	EC-7 1000-1100	85.	9.	105.	3250.	95.
5	EC-7 1100-1200	45.	12.	105.	1800.	55.
6	EC-7 1200-1300	50.	14.	185.	10500.	220.
7	EC-7 1400-1500	55.	23.	130.	8550.	185.
8	EC-7 1500-1600	45.	13.	215.	13500.	235.
9	EC-7 1600-1700	55.	10.	340.	16000.	240.
10	EC-7 1700-1800	40.	14.	790.	11500.	210.
11	EC-7 1800-1900	35.	8.	360.	18500.	270.
12	EC-7 1900-2000	55.	12.	190.	11000.	190.
13	EC-7 2000-2100	90.	12.	115.	5900.	170.
14	EC-7 2100-2200	70.	7.	105.	2250.	65.
15	EC-7 2200-2300	100.	8.	155.	2500.	70.
16	EC-7 2400-2475	85.	7.	125.	8750.	180.
17	EC-7 620-700	35.	N/R	N/R	N/R	N/R
18	EC-7 1300-1400	70.	N/R	N/R	N/R	N/R
19	EC-7 2300-2400	105.	N/R	N/R	N/R	N/R


Gordon H. VanSickle
Manager

NOTE: N/R = Analysis not requested.

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

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DEC 01 1983

REPORT OF ANALYSIS**MOLYCORP, INC.**

ENGLEWOOD, CO.

JOB NO. DOH 237

November 30, 1983

Molycorp, Inc.

Attn: Nancy Dimick

Box 37

Louviers, Colorado 80131

Analysis of 12 Pulp Samples

ITEM SAMPLE NUMBER	Ba (ppm)	V (ppm)	Be (ppm)	Nb205 (ppm)	Pb (ppm)	Zn (ppm)
1 EC-18 1250-1300	8200.	225.	8.	1350.	10.	185.
2 EC-18 1300-1400	16500.	90.	9.	1450.	<5.	160.
3 EC-18 1400-1517T.D.	21500.	140.	13.	1800.	<5.	180.
4 EC-19 0850-0900	7800.	160.	6.	1400.	<5.	85.
5 EC-19 0900-0950	9700.	270.	8.	1050.	<5.	170.
6 EC-19 0950-1000	7800.	235.	10.	1350.	<5.	100.
7 EC-19 1000-1050	12000.	255.	10.	1100.	<5.	170.
8 EC-19 1350-1400	21500.	135.	9.	1300.	<5.	160.
9 EC-19 1400-1500	8450.	240.	10.	1200.	5.	200.
10 EC-19 1550-1600	16500.	265.	30.	2250.	15.	450.
11 EC-19 1600-1650	17500.	300.	24.	2550.	10.	490.
12 EC-19 1700-1800	14500.	270.	32.	2150.	20.	425.

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DEC 01 1983

JOB NO. DOM 237
November 30, 1983
PAGE 2

MOLYCORP, INC.
ENGLEWOOD, CO

ITEM	SAMPLE NUMBER	Ti (ppm)	U (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-18 1250-1300	14500.	13.	1.60	45.	4150.
2	EC-18 1300-1400	4050.	12.	.68	15.	5600.
3	EC-18 1400-1517T.D.	7150.	7.	1.20	20.	5400.
4	EC-19 0850-0900	3700.	5.	.63	35.	7150.
5	EC-19 0900-0950	10000.	5.	1.50	35.	6400.
6	EC-19 0950-1000	7500.	6.	1.30	30.	6500.
7	EC-19 1000-1050	15000.	8.	1.80	40.	4450.
8	EC-19 1350-1400	5150.	7.	.84	25.	6250.
9	EC-19 1400-1500	9600.	8.	1.50	40.	5800.
10	EC-19 1550-1600	9350.	13.	2.00	75.	5700.
11	EC-19 1600-1650	9500.	14.	2.00	75.	6050.
12	EC-19 1700-1800	12000.	14.	2.30	70.	4650.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-18 1250-1300	3000.	65.	280.	500.	180.
2	EC-18 1300-1400	2650.	40.	85.	220.	70.
3	EC-18 1400-1517T.D.	1900.	70.	200.	580.	240.
4	EC-19 0850-0900	2000.	<20.	970.	2000.	810.
5	EC-19 0900-0950	2000.	<20.	630.	1350.	550.
6	EC-19 0950-1000	2100.	<20.	780.	1600.	620.
7	EC-19 1000-1050	2300.	40.	295.	810.	315.
8	EC-19 1350-1400	2700.	75.	300.	800.	320.
9	EC-19 1400-1500	2500.	<20.	610.	1250.	490.
10	EC-19 1550-1600	2650.	85.	455.	1150.	455.
11	EC-19 1600-1650	2700.	110.	420.	1050.	440.
12	EC-19 1700-1800	2900.	120.	375.	890.	300.

cc: ✓ Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

Gordon H. VanSickle
Gordon H. VanSickle
Manager

ELK CREEK CARBONATITE REE DATA (SKYLINE LABS)

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

Elemental analyses are presented herein as parts per million (ppm); analyses were performed for multiple elements. Analytical values for the rare-earth elements (REE) lanthanum (La), cerium (Ce), and neodymium (Nd) may be of particular interest to property owners, investors, developers, and the geological community.

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 4 1000-1050" refers to a sample removed from the depth interval 1000 ft to 1050 ft from drill hole 4. The abbreviation "T.D.", as used in some analysis identifiers, refers to the total depth drilled in a given drill hole (i.e., the greatest depth attained).

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

EC-4
EC-7
EC-13
EC-15
EC-17
EC-18
EC-19
EC-21
EC-26
EC-27
EC-30
EC-35
EC-36
EC-37
EC-41

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 101
September 1, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 20 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-4 0712-0800	.07	.15	.51	500.	20.
2	EC-4 0800-0900	.08	.19	.54	1500.	25.
3	EC-4 0900-1000	.08	.95	1.20	1100.	45.
4	EC-4 1000-1100	.07	.19	.28	1400.	20.
5	EC-4 1100-1200	.10	.62	.67	2350.	25.
6	EC-4 1200-1300	.07	.20	.30	1850.	30.
7	EC-4 1300-1400	.09	.37	.36	1500.	15.
8	EC-4 1400-1500	.09	.40	.54	1450.	15.
9	EC-4 1500-1600	.08	.67	.54	1150.	15.
10	EC-4 1600-1700	.09	.83	.50	1600.	15.
11	EC-4 1700-1800	.09	1.70	.61	1450.	15.
12	EC-4 1800-1900	.09	2.70	.98	920.	15.
13	EC-4 1900-2000	.13	3.90	1.20	710.	35.
14	EC-4 2000-2105	.15	4.40	.89	930.	30.
15	EC-4 2105-2200	.52	5.00	.85	790.	40.
16	EC-4 2200-2300	.74	5.30	.87	880.	45.
17	EC-4 2300-2400	.28	6.10	.62	960.	25.
18	EC-4 2400-2500	.29	6.10	.84	1400.	45.
19	EC-4 2500-2600	.34	5.40	.68	1150.	40.
20	EC-4 2600-2653TD	.61	5.30	.78	1050.	35.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-4 0712-0800	<.2	<5.	<5.	45.	15.
2	EC-4 0800-0900	<.2	15.	<5.	65.	10.
3	EC-4 0900-1000	<.2	25.	<5.	85.	15.
4	EC-4 1000-1100	<.2	10.	<5.	200.	10.
5	EC-4 1100-1200	<.2	10.	<5.	60.	20.
6	EC-4 1200-1300	<.2	20.	<5.	25.	15.
7	EC-4 1300-1400	<.2	25.	<5.	40.	15.
8	EC-4 1400-1500	<.2	15.	<5.	45.	10.
9	EC-4 1500-1600	<.2	30.	<5.	30.	15.
10	EC-4 1600-1700	<.2	20.	<5.	35.	10.
11	EC-4 1700-1800	.2	15.	<5.	55.	15.
12	EC-4 1800-1900	<.2	10.	<5.	25.	10.
13	EC-4 1900-2000	<.2	20.	<5.	85.	25.
14	EC-4 2000-2105	<.2	65.	<5.	60.	20.
15	EC-4 2105-2200	2.0	15.	<5.	95.	20.
16	EC-4 2200-2300	<.2	15.	<5.	95.	15.
17	EC-4 2300-2400	<.2	5.	<5.	50.	5.
18	EC-4 2400-2500	<.2	15.	<5.	60.	15.
19	EC-4 2500-2600	<.2	10.	<5.	60.	15.
20	EC-4 2600-2653TD	<.2	10.	<5.	65.	10.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-4 0712-0800	<5.	10.	6.	.250	18000.
2	EC-4 0800-0900	15.	20.	4.	.310	45000.
3	EC-4 0900-1000	35.	45.	2.	.320	35000.
4	EC-4 1000-1100	<5.	25.	2.	.230	45000.
5	EC-4 1100-1200	25.	60.	4.	.380	58000.
6	EC-4 1200-1300	<5.	15.	4.	.200	29500.
7	EC-4 1300-1400	15.	40.	6.	.370	14500.
8	EC-4 1400-1500	15.	55.	10.	.220	36000.
9	EC-4 1500-1600	15.	25.	4.	.250	21000.
10	EC-4 1600-1700	15.	70.	4.	.270	26500.
11	EC-4 1700-1800	30.	120.	4.	.210	20000.
12	EC-4 1800-1900	45.	120.	8.	.170	17500.
13	EC-4 1900-2000	170.	240.	8.	.360	26000.
14	EC-4 2000-2105	130.	320.	8.	.330	19000.
15	EC-4 2105-2200	50.	40.	16.	.430	9300.
16	EC-4 2200-2300	40.	30.	24.	.390	8250.
17	EC-4 2300-2400	15.	15.	55.	.210	11500.
18	EC-4 2400-2500	20.	20.	65.	.290	15000.
19	EC-4 2500-2600	20.	15.	20.	.260	11000.
20	EC-4 2600-2653TD	5.	5.	14.	.350	7250.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-4 0712-0800	12.	8050.	3.	380.	20.
2	EC-4 0800-0900	6.	7300.	7.	180.	50.
3	EC-4 0900-1000	7.	6200.	10.	200.	150.
4	EC-4 1000-1100	8.	7150.	8.	165.	70.
5	EC-4 1100-1200	9.	6000.	8.	160.	100.
6	EC-4 1200-1300	5.	6800.	8.	215.	70.
7	EC-4 1300-1400	5.	6400.	20.	115.	50.
8	EC-4 1400-1500	10.	6550.	13.	185.	70.
9	EC-4 1500-1600	7.	6650.	10.	175.	100.
10	EC-4 1600-1700	7.	5750.	13.	240.	100.
11	EC-4 1700-1800	4.	5350.	15.	180.	30.
12	EC-4 1800-1900	7.	5150.	7.	210.	50.
13	EC-4 1900-2000	11.	3750.	4.	210.	50.
14	EC-4 2000-2105	9.	3050.	6.	235.	150.
15	EC-4 2105-2200	10.	2800.	24.	195.	200.
16	EC-4 2200-2300	9.	2250.	26.	215.	300.
17	EC-4 2300-2400	10.	2850.	19.	155.	500.
18	EC-4 2400-2500	9.	3050.	18.	180.	300.
19	EC-4 2500-2600	8.	2750.	28.	165.	500.
20	EC-4 2600-2653TD	6.	2050.	24.	150.	300.


Gordon H. VanSickle
Manager

cc: R. Sherer
Ray Reynolds

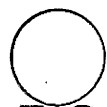
EC-43
EC-48
EC-53
EC-55

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS


RECEIVED

DEC 05 1983

MOLYCORP, INC.

ENCLEWOOD, CO.

JOB NO. D0H 236

December 1, 1983

Molycorp, Inc.

Attn: Nancy Dimick

Box 37

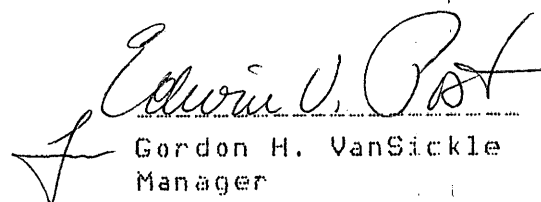
Louviers, Colorado 80131

Analysis of 17 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-4 712.4-750	14000.	.05	20.	8300.
2	EC-4 0750-0800	22000.	.11	15.	8150.
3	EC-4 0800-0850	30500.	.31	25.	7050.
4	EC-4 0850-0900	70000.	.05	20.	7350.
5	EC-4 0900-0950	19000.	1.50	40.	5750.
6	EC-4 0950-1000	63000.	.30	35.	7400.
7	EC-4 1000-1050	46500.	.17	25.	7400.
8	EC-4 1050-1100	46500.	.15	15.	7550.
9	EC-4 1100-1150	85000.	.20	20.	6150.
10	EC-4 1150-1200	39500.	.85	25.	6100.
11	EC-4 1200-1250	29500.	.19	30.	7050.
12	EC-4 1250-1300	38000.	.18	25.	6750.
13	EC-4 1300-1350	19000.	.46	20.	5700.
14	EC-4 1350-1400	16500.	.22	15.	6150.
15	EC-4 1400-1450	35000.	.43	15.	6150.
16	EC-4 1450-1500	53000.	.34	<10.	6700.
17	EC-4 1500-1550	19500.	.67	<10.	6550.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-4 712.4-750	385.	<20.	4150.	7700.
2	EC-4 0750-0800	600.	<20.	3200.	6250.
3	EC-4 0800-0850	700.	<20.	2200.	4200.
4	EC-4 0850-0900	1900.	<20.	5950.	8000.
5	EC-4 0900-0950	910.	<20.	1600.	3000.
6	EC-4 0950-1000	1400.	60.	5300.	8950.
7	EC-4 1000-1050	1500.	<20.	4300.	6500.
8	EC-4 1050-1100	1200.	<20.	3900.	6100.
9	EC-4 1100-1150	2150.	<20.	1950.	3550.
10	EC-4 1150-1200	2300.	90.	2150.	3650.
11	EC-4 1200-1250	2100.	<20.	2850.	5300.
12	EC-4 1250-1300	1700.	<20.	3050.	5450.
13	EC-4 1300-1350	1600.	<20.	710.	1200.
14	EC-4 1350-1400	1400.	<20.	2000.	2600.
15	EC-4 1400-1450	1550.	<20.	2200.	3700.
16	EC-4 1450-1500	1450.	<20.	1550.	2800.
17	EC-4 1500-1550	1050.	<20.	710.	1400.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-4 712.4-750	1900.	3.	25.
2	EC-4 0750-0800	1400.	2.	35.
3	EC-4 0800-0850	1100.	3.	70.
4	EC-4 0850-0900	1200.	9.	40.
5	EC-4 0900-0950	840.	13.	110.
6	EC-4 0950-1000	2000.	7.	35.
7	EC-4 1000-1050	1400.	6.	95.
8	EC-4 1050-1100	1500.	7.	195.
9	EC-4 1100-1150	1100.	5.	30.
10	EC-4 1150-1200	880.	7.	55.
11	EC-4 1200-1250	1500.	8.	15.
12	EC-4 1250-1300	1500.	5.	20.
13	EC-4 1300-1350	340.	22.	40.
14	EC-4 1350-1400	450.	24.	35.
15	EC-4 1400-1450	950.	12.	50.
16	EC-4 1450-1500	970.	7.	25.
17	EC-4 1500-1550	465.	11.	25.


Gordon H. VanSickle
Manager

cc's: Ray Reynolds, Englewood
Richard Sherer, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 243
December 22, 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 33 Pulp Samples

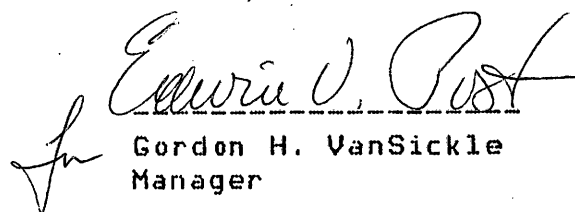
ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	Be (ppm)	Nb205 (ppm)
1	EC-27 0800-900	16500.	320.	10.	2650.
2	EC-27 0900-1000	25000.	270.	15.	3400.
3	EC-27 1000-1050	36500.	270.	16.	4850.
4	EC-27 1100-1200	33500.	225.	22.	3900.
5	EC-27 1200-1300	29500.	250.	24.	5150.
6	EC-27 1300-1400	27500.	255.	30.	5050.
7	EC-27 1400-1500	23000.	235.	40.	3150.
8	EC-27 1550-1600	14500.	245.	22.	3400.
9	EC-27 1600-1700	21500.	215.	34.	4200.
10	EC-27 1700-1800	15500.	195.	24.	2500.
11	EC-27 1800-1900	14000.	85.	15.	2350.
12	EC-27 1900-2000	12000.	115.	13.	2250.
13	EC-27 2000-2100	15500.	195.	20.	2450.
14	EC-27 2100-2200	16000.	250.	26.	2700.
15	EC-27 2250-2303T.D.	14500.	205.	24.	2850.
16	EC-7 0620-700	13000.	65.	7.	1400.
17	EC-7 700-750	3900.	85.	15.	1550.
18	EC-7 850-900	4100.	50.	7.	1350.
19	EC-7 1050-1100	6900.	85.	11.	1250.
20	EC-7 1100-1200	5500.	55.	8.	1050.
21	EC-7 1250-1300	5150.	150.	9.	1350.
22	EC-7 1300-1400	4650.	165.	8.	1150.
23	EC-7 1400-1450	3000.	65.	6.	1200.
24	EC-7 1500-1550	1900.	165.	15.	1200.
25	EC-7 1950-2000	11500.	70.	5.	1600.

ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	Be (ppm)	Nb205 (ppm)
26	EC-7 2000-2050	6300.	115.	7.	1600.
27	EC-7 2300-2400	10500.	125.	9.	970.
28	EC-7 2400-2450	6050.	120.	6.	1300.
29	EC-18 0628-700	N/R	N/R	N/R	1350.
30	EC-18 0700-0750	N/R	N/R	N/R	1250.
31	EC-18 0750-0800	N/R	N/R	N/R	1150.
32	EC-18 0800-0850	N/R	N/R	N/R	1450.
33	EC-18 0850-0900	N/R	N/R	N/R	1600.

ITEM	SAMPLE NUMBER	Pb (ppm)	Zn (ppm)	Ti (%)	U (ppm)
1	EC-27 0800-900	25.	340.	1.10	26.
2	EC-27 0900-1000	30.	610.	1.20	28.
3	EC-27 1000-1050	25.	750.	1.50	40.
4	EC-27 1100-1200	40.	1000.	1.40	38.
5	EC-27 1200-1300	80.	1350.	1.70	60.
6	EC-27 1300-1400	45.	1100.	1.30	55.
7	EC-27 1400-1500	70.	1050.	.87	24.
8	EC-27 1550-1600	45.	510.	1.20	34.
9	EC-27 1600-1700	35.	550.	.91	26.
10	EC-27 1700-1800	50.	465.	.65	11.
11	EC-27 1800-1900	30.	250.	.51	10.
12	EC-27 1900-2000	45.	310.	.56	9.
13	EC-27 2000-2100	65.	490.	.72	19.
14	EC-27 2100-2200	80.	650.	1.00	20.
15	EC-27 2250-2303T.D.	70.	630.	1.20	24.
16	EC-7 0620-700	10.	95.	.26	6.
17	EC-7 700-750	10.	100.	.62	8.
18	EC-7 850-900	45.	180.	.07	8.
19	EC-7 1050-1100	10.	100.	.33	11.
20	EC-7 1100-1200	15.	100.	.21	12.
21	EC-7 1250-1300	25.	115.	.48	17.
22	EC-7 1300-1400	20.	115.	.75	22.
23	EC-7 1400-1450	15.	85.	.17	24.
24	EC-7 1500-1550	10.	145.	.65	15.
25	EC-7 1950-2000	45.	125.	.10	17.
26	EC-7 2000-2050	20.	100.	.24	18.
27	EC-7 2300-2400	15.	100.	.50	10.
28	EC-7 2400-2450	10.	85.	.56	9.
29	EC-18 0628-700	N/R	N/R	N/R	10.
30	EC-18 0700-0750	N/R	N/R	N/R	9.
31	EC-18 0750-0800	N/R	N/R	N/R	9.
32	EC-18 0800-0850	N/R	N/R	N/R	6.
33	EC-18 0850-0900	N/R	N/R	N/R	7.

ITEM	SAMPLE NUMBER	Na (%)	P205 (%)	Th (ppm)	Zr (ppm)
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29	EC-18 0628-700	.08	2.1	45.	255.
30	EC-18 0700-0750	.08	2.2	25.	320.
31	EC-18 0750-0800	.10	3.6	95.	260.
32	EC-18 0800-0850	.09	2.6	85.	335.
33	EC-18 0850-0900	.08	3.0	45.	315.


Gordon H. VanSickle
Manager

NOTE: N/R = Analysis not requested.

cc: Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

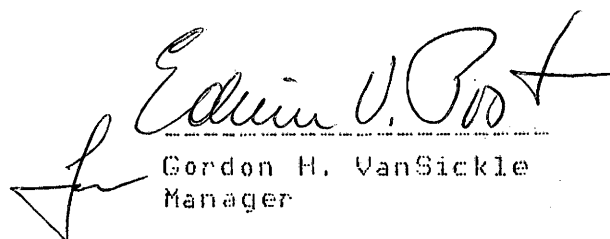
JOB NO. DOH 242
December 12, 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 16 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	P2O5 (%)	Nb2O5 (ppm)
1	EC-15 712-750	.14	7.8	2500.
2	EC-15 750-800	.12	6.3	2850.
3	EC-15 800-850	.17	11.8	1900.
4	EC-15 850-900	.16	9.1	3400.
5	EC-15 900-950	.09	2.2	2150.
6	EC-15 0950-1000	.09	4.8	1650.
7	EC-15 1000-1050	.06	2.9	1450.
8	EC-15 1050-1100	.08	1.5	1800.
9	EC-36 0704-0750	.08	2.8	2100.
10	EC-36 0750-0800	.10	5.7	2100.
11	EC-36 0800-0850	.10	7.2	2200.
12	EC-36 0850-0900	.06	2.3	1250.
13	EC-36 0900-0950	.07	2.8	1450.
14	EC-36 0950-1000	.07	2.9	1600.
15	EC-36 1100-1150	.09	3.5	1800.
16	EC-36 1200-1250	.11	6.0	2650.

ITEM	SAMPLE NUMBER	Th (ppm)	Zr (ppm)	U (ppm)
1	EC-15 712-750	100.	330.	32.
2	EC-15 750-800	125.	295.	55.
3	EC-15 800-850	200.	240.	80.
4	EC-15 850-900	160.	260.	70.
5	EC-15 900-950	120.	300.	28.
6	EC-15 0950-1000	60.	300.	40.
7	EC-15 1000-1050	60.	240.	24.
8	EC-15 1050-1100	85.	275.	26.
9	EC-36 0704-0750	45.	275.	46.
10	EC-36 0750-0800	85.	320.	18.
11	EC-36 0800-0850	45.	300.	22.
12	EC-36 0850-0900	60.	255.	8.
13	EC-36 0900-0950	35.	235.	13.
14	EC-36 0950-1000	60.	255.	14.
15	EC-36 1100-1150	85.	255.	12.
16	EC-36 1200-1250	155.	300.	17.


Gordon H. VanSickle
Manager

cc's: D. Sherer, Englewood
R. Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 246
December 27, 1983

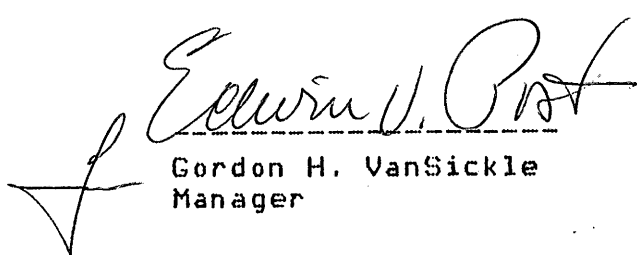
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 24 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-17 1800-1850	37000.	1.20	140.	7300.
2	EC-17 1850-1900	46500.	.51	95.	9250.
3	EC-17 1900-1950	7700.	2.00	175.	7450.
4	EC-17 1950-2010T.D.	18500.	2.10	140.	5850.
5	EC-19 0610-0650	19500.	.69	35.	3300.
6	EC-19 0650-0700	14500.	.08	20.	7200.
7	EC-19 0700-0750	8050.	.35	15.	6850.
8	EC-19 0750-0800	9700.	.38	15.	7600.
9	EC-19 0800-0850	8750.	.33	15.	7300.
10	EC-19 1050-1100	16500.	.87	30.	6850.
11	EC-19 1100-1150	11500.	.66	30.	7150.
12	EC-19 1150-1200	7550.	1.50	30.	6050.
13	EC-19 1200-1250	8050.	.90	25.	6400.
14	EC-19 1250-1300	16000.	1.50	40.	6400.
15	EC-19 1300-1350	11000.	1.00	30.	6400.
16	EC-19 2050-2100	14000.	.65	35.	6700.
17	EC-19 2100-2179T.D.	18500.	.45	15.	6350.
18	EC-13 0700-0750	14000.	2.10	35.	5950.
19	EC-13 0750-0800	17000.	2.10	30.	5950.
20	EC-13 0800-0850	10000.	3.50	35.	5200.
21	EC-13 0850-0900	20000.	1.20	25.	8100.
22	EC-13 0900-0950	10500.	2.90	50.	6100.
23	EC-13 1000-1050	13500.	3.30	45.	6200.
24	EC-13 1050-1100	29000.	2.40	50.	6900.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-17 1800-1850	3200.	<50.	3600.	5550.
2	EC-17 1850-1900	4150.	<50.	6200.	9500.
3	EC-17 1900-1950	2450.	<50.	1700.	2700.
4	EC-17 1950-2010T.D.	1850.	<50.	1400.	2500.
5	EC-19 0610-0650	1600.	<50.	2850.	5850.
6	EC-19 0650-0700	830.	<50.	1600.	3200.
7	EC-19 0700-0750	880.	<50.	1500.	2950.
8	EC-19 0750-0800	1300.	<50.	1700.	3250.
9	EC-19 0800-0850	1900.	<50.	1800.	3450.
10	EC-19 1050-1100	1600.	<50.	1050.	2350.
11	EC-19 1100-1150	1550.	<50.	1350.	2450.
12	EC-19 1150-1200	2150.	<50.	940.	1650.
13	EC-19 1200-1250	3150.	<50.	720.	1300.
14	EC-19 1250-1300	2200.	<50.	810.	1500.
15	EC-19 1300-1350	2350.	<50.	1250.	2450.
16	EC-19 2050-2100	2000.	<50.	1200.	2550.
17	EC-19 2100-2179T.D.	1800.	<50.	1200.	2700.
18	EC-13 0700-0750	1600.	60.	750.	1250.
19	EC-13 0750-0800	1950.	165.	1350.	2350.
20	EC-13 0800-0850	2250.	130.	1100.	2100.
21	EC-13 0850-0900	2100.	<50.	2200.	3900.
22	EC-13 0900-0950	3600.	<50.	1000.	1550.
23	EC-13 1000-1050	1600.	80.	1050.	2150.
24	EC-13 1050-1100	2700.	<50.	1250.	2500.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-17 1800-1850	1350.	3.	350.
2	EC-17 1850-1900	2000.	<2.	315.
3	EC-17 1900-1950	930.	3.	860.
4	EC-17 1950-2010T.D.	760.	2.	1100.
5	EC-19 0610-0650	2150.	8.	45.
6	EC-19 0650-0700	1400.	4.	40.
7	EC-19 0700-0750	1250.	4.	40.
8	EC-19 0750-0800	1400.	3.	80.
9	EC-19 0800-0850	1600.	4.	40.
10	EC-19 1050-1100	1050.	8.	80.
11	EC-19 1100-1150	1100.	4.	50.
12	EC-19 1150-1200	660.	4.	90.
13	EC-19 1200-1250	520.	6.	140.
14	EC-19 1250-1300	670.	5.	130.
15	EC-19 1300-1350	1150.	6.	105.
16	EC-19 2050-2100	1100.	7.	105.
17	EC-19 2100-2179T.D.	1200.	4.	45.
18	EC-13 0700-0750	410.	6.	190.
19	EC-13 0750-0800	720.	10.	175.
20	EC-13 0800-0850	670.	20.	145.
21	EC-13 0850-0900	1400.	15.	165.
22	EC-13 0900-0950	540.	9.	165.
23	EC-13 1000-1050	700.	7.	160.
24	EC-13 1050-1100	850.	9.	150.


Gordon H. VanSickle
Manager

cc's: ✓ Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 246
December 27, 1983

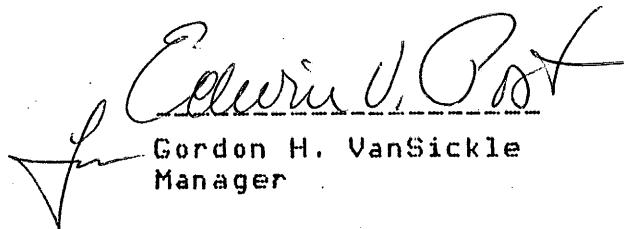
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 24 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-17 1800-1850	37000.	1.20	140.	7300.
2	EC-17 1850-1900	46500.	.51	95.	9250.
3	EC-17 1900-1950	7700.	2.00	175.	7450.
4	EC-17 1950-2010T.D.	18500.	2.10	140.	5850.
5	EC-19 0610-0650	19500.	.69	35.	3300.
6	EC-19 0650-0700	14500.	.08	20.	7200.
7	EC-19 0700-0750	8050.	.35	15.	6850.
8	EC-19 0750-0800	9700.	.38	15.	7600.
9	EC-19 0800-0850	8750.	.33	15.	7300.
10	EC-19 1050-1100	16500.	.87	30.	6850.
11	EC-19 1100-1150	11500.	.66	30.	7150.
12	EC-19 1150-1200	7550.	1.50	30.	6050.
13	EC-19 1200-1250	8050.	.90	25.	6400.
14	EC-19 1250-1300	16000.	1.50	40.	6400.
15	EC-19 1300-1350	11000.	1.00	30.	6400.
16	EC-19 2050-2100	14000.	.65	35.	6700.
17	EC-19 2100-2179T.D.	18500.	.45	15.	6350.
18	EC-13 0700-0750	14000.	2.10	35.	5950.
19	EC-13 0750-0800	17000.	2.10	30.	5950.
20	EC-13 0800-0850	10000.	3.50	35.	5200.
21	EC-13 0850-0900	20000.	1.20	25.	8100.
22	EC-13 0900-0950	10500.	2.90	50.	6100.
23	EC-13 1000-1050	13500.	3.30	45.	6200.
24	EC-13 1050-1100	29000.	2.40	50.	6900.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-17 1800-1850	3200.	<50.	3600.	5550.
2	EC-17 1850-1900	4150.	<50.	6200.	9500.
3	EC-17 1900-1950	2450.	<50.	1700.	2700.
4	EC-17 1950-2010T.D.	1850.	<50.	1400.	2500.
5	EC-19 0610-0650	1600.	<50.	2850.	5850.
6	EC-19 0650-0700	830.	<50.	1600.	3200.
7	EC-19 0700-0750	880.	<50.	1500.	2950.
8	EC-19 0750-0800	1300.	<50.	1700.	3250.
9	EC-19 0800-0850	1900.	<50.	1800.	3450.
10	EC-19 1050-1100	1600.	<50.	1050.	2350.
11	EC-19 1100-1150	1550.	<50.	1350.	2450.
12	EC-19 1150-1200	2150.	<50.	940.	1650.
13	EC-19 1200-1250	3150.	<50.	720.	1300.
14	EC-19 1250-1300	2200.	<50.	810.	1500.
15	EC-19 1300-1350	2350.	<50.	1250.	2450.
16	EC-19 2050-2100	2000.	<50.	1200.	2550.
17	EC-19 2100-2179T.D.	1800.	<50.	1200.	2700.
18	EC-13 0700-0750	1600.	60.	750.	1250.
19	EC-13 0750-0800	1950.	165.	1350.	2350.
20	EC-13 0800-0850	2250.	130.	1100.	2100.
21	EC-13 0850-0900	2100.	<50.	2200.	3900.
22	EC-13 0900-0950	3600.	<50.	1000.	1550.
23	EC-13 1000-1050	1600.	80.	1050.	2150.
24	EC-13 1050-1100	2700.	<50.	1250.	2500.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-17 1800-1850	1350.	3.	350.
2	EC-17 1850-1900	2000.	<2.	315.
3	EC-17 1900-1950	930.	3.	860.
4	EC-17 1950-2010T.D.	760.	2.	1100.
5	EC-19 0610-0650	2150.	8.	45.
6	EC-19 0650-0700	1400.	4.	40.
7	EC-19 0700-0750	1250.	4.	40.
8	EC-19 0750-0800	1400.	3.	80.
9	EC-19 0800-0850	1600.	4.	40.
10	EC-19 1050-1100	1050.	8.	80.
11	EC-19 1100-1150	1100.	4.	50.
12	EC-19 1150-1200	660.	4.	90.
13	EC-19 1200-1250	520.	6.	140.
14	EC-19 1250-1300	670.	5.	130.
15	EC-19 1300-1350	1150.	6.	105.
16	EC-19 2050-2100	1100.	7.	105.
17	EC-19 2100-2179T.D.	1200.	4.	45.
18	EC-13 0700-0750	410.	6.	190.
19	EC-13 0750-0800	720.	10.	175.
20	EC-13 0800-0850	670.	20.	145.
21	EC-13 0850-0900	1400.	15.	165.
22	EC-13 0900-0950	540.	9.	165.
23	EC-13 1000-1050	700.	7.	160.
24	EC-13 1050-1100	850.	9.	150.


Gordon H. VanSickle
Manager

cc's: Richard Sherer, Englewood
Ray Reynolds, Englewood

EC - D. Sherer
EC - comps
EC-18-1250-1517T.D.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 237
November 30, 1983

sent / 11-17-83

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 12 Pulp Samples

ITEM SAMPLE NUMBER	Ba (ppm)	V (ppm)	Re (ppm)	Nb205 (ppm)	Pb (ppm)	Zn (ppm)
1 EC-18 1250-1300	8200.	225.	8.	1350.	10.	185.
2 EC-18 1300-1400	16500.	90.	9.	1450.	<5.	160.
3 EC-18 1400-1517T.D.	21500.	140.	13.	1800.	<5.	180.
4 EC-19 0850-0900	7800.	160.	6.	1400.	<5.	85.
5 EC-19 0900-0950	9700.	270.	8.	1050.	<5.	170.
6 EC-19 0950-1000	7800.	235.	10.	1350.	<5.	100.
7 EC-19 1000-1050	12000.	255.	10.	1100.	<5.	170.
8 EC-19 1350-1400	21500.	135.	9.	1300.	<5.	160.
9 EC-19 1400-1500	8450.	240.	10.	1200.	5.	200.
10 EC-19 1550-1600	16500.	265.	30.	2250.	15.	450.
11 EC-19 1600-1650	17500.	300.	24.	2550.	10.	490.
12 EC-19 1700-1800	14500.	270.	32.	2150.	20.	425.

ITEM	SAMPLE NUMBER	Ti (ppm)	U (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-18 1250-1300	14500.	13.	1.60	45.	4150.
2	EC-18 1300-1400	4050.	12.	.68	15.	5600.
3	EC-18 1400-1517T.D.	7150.	7.	1.20	20.	5400.
4	EC-19 0850-0900	3700.	5.	.63	35.	7150.
5	EC-19 0900-0950	10000.	5.	1.50	35.	6400.
6	EC-19 0950-1000	7500.	6.	1.30	30.	6500.
7	EC-19 1000-1050	15000.	8.	1.80	40.	4450.
8	EC-19 1350-1400	5150.	7.	.84	25.	6250.
9	EC-19 1400-1500	9600.	8.	1.50	40.	5800.
10	EC-19 1550-1600	9350.	13.	2.00	75.	5700.
11	EC-19 1600-1650	9500.	14.	2.00	75.	6050.
12	EC-19 1700-1800	12000.	14.	2.30	70.	4650.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-18 1250-1300	3000.	65.	280.	500.	180.
2	EC-18 1300-1400	2650.	40.	85.	220.	70.
3	EC-18 1400-1517T.D.	1900.	70.	200.	580.	240.
4	EC-19 0850-0900	2000.	<20.	970.	2000.	810.
5	EC-19 0900-0950	2000.	<20.	630.	1350.	550.
6	EC-19 0950-1000	2100.	<20.	780.	1600.	620.
7	EC-19 1000-1050	2300.	40.	295.	810.	315.
8	EC-19 1350-1400	2700.	75.	300.	800.	320.
9	EC-19 1400-1500	2500.	<20.	610.	1250.	490.
10	EC-19 1550-1600	2650.	85.	455.	1150.	455.
11	EC-19 1600-1650	2700.	110.	420.	1050.	440.
12	EC-19 1700-1800	2900.	120.	375.	890.	300.

cc: Richard Sherer, Englewood
Ray Reynolds, Englewood

Eduin V. Post

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 247
December 27, 1983

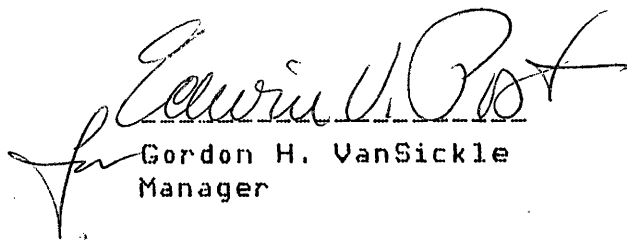
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 20 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-21 681-700	55000.	.37	20.	10500.
2	EC-21 700-750	47000.	.73	25.	8800.
3	EC-41 0750-0800	22500.	.29	20.	7250.
4	EC-41 0800-0850	8150.	.11	<10.	7100.
5	EC-41 0850-0900	15500.	.07	10.	6800.
6	EC-41 0900-0950	10000.	.07	<10.	7100.
7	EC-41 0950-1000	10500.	.15	10.	6600.
8	EC-41 1000-1050	49000.	.29	15.	5550.
9	EC-41 1050-1100	20000.	.16	15.	6350.
10	EC-41 1100-1150	9050.	.18	20.	6050.
11	EC-41 1150-1200	60000.	.15	20.	5900.
12	EC-41 1200-1250	81500.	.25	10.	5500.
13	EC-41 1250-1300	29000.	1.40	20.	5500.
14	EC-41 1300-1350	28500.	1.40	20.	5600.
15	EC-41 1350-1400	17000.	1.40	30.	5750.
16	EC-41 1400-1450	27500.	1.40	20.	6200.
17	EC-41 1450-1500	37000.	.77	20.	6150.
18	EC-41 1500-1550	17500.	.56	20.	6250.
19	EC-41 1550-1600	16500.	.25	15.	5850.
20	EC-41 1600-1650	17000.	.70	15.	5050.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-21 681-700	910.	<50.	4300.	7800.
2	EC-21 700-750	1100.	<50.	3100.	6150.
3	EC-41 0750-0800	1550.	<50.	800.	1450.
4	EC-41 0800-0850	1150.	<50.	210.	415.
5	EC-41 0850-0900	2000.	<50.	185.	395.
6	EC-41 0900-0950	1500.	<50.	160.	220.
7	EC-41 0950-1000	1050.	<50.	170.	395.
8	EC-41 1000-1050	2250.	<50.	5150.	8350.
9	EC-41 1050-1100	2350.	<50.	600.	1200.
10	EC-41 1100-1150	3900.	55.	385.	750.
11	EC-41 1150-1200	2750.	100.	3450.	5300.
12	EC-41 1200-1250	3900.	<50.	7200.	8850.
13	EC-41 1250-1300	1550.	80.	1000.	1900.
14	EC-41 1300-1350	1250.	<50.	1300.	2450.
15	EC-41 1350-1400	1250.	<50.	1250.	2450.
16	EC-41 1400-1450	1200.	65.	2150.	4200.
17	EC-41 1450-1500	1200.	<50.	1350.	2400.
18	EC-41 1500-1550	2400.	<50.	1200.	1650.
19	EC-41 1550-1600	1850.	85.	750.	1250.
20	EC-41 1600-1650	1600.	90.	750.	1200.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-21 681-700	2850.	7.	50.
2	EC-21 700-750	2300.	6.	50.
3	EC-41 0750-0800	540.	9.	55.
4	EC-41 0800-0850	130.	9.	25.
5	EC-41 0850-0900	125.	10.	35.
6	EC-41 0900-0950	85.	5.	30.
7	EC-41 0950-1000	170.	10.	45.
8	EC-41 1000-1050	2050.	15.	130.
9	EC-41 1050-1100	340.	8.	45.
10	EC-41 1100-1150	160.	14.	65.
11	EC-41 1150-1200	1300.	24.	45.
12	EC-41 1200-1250	1650.	11.	195.
13	EC-41 1250-1300	630.	15.	125.
14	EC-41 1300-1350	790.	10.	25.
15	EC-41 1350-1400	780.	19.	60.
16	EC-41 1400-1450	1400.	20.	30.
17	EC-41 1450-1500	770.	20.	30.
18	EC-41 1500-1550	360.	16.	90.
19	EC-41 1550-1600	405.	15.	50.
20	EC-41 1600-1650	355.	24.	60.


Gordon H. VanSickle
Manager

cc's: Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

EC-21 & 30

D. Shaffer

EC-comps

EC-21 800-1000 EC-30

1050-1150

700-850

1250-1300

850-2494

1850-2114 T.D.

11-21-83

JOB NO. DOH 240
December 8, 1983

MolyCorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 30 Pulp Samples

ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	Be (ppm)	Nb205 (%)
1	EC-21 800-900	4.1	405.	42.	.37
2	EC-21 900-1000	2.5	365.	34.	.36
3	EC-21 1050-1100	2.0	275.	36.	.29
4	EC-21 1100-1150	1.3	355.	28.	.24
5	EC-21 1250-1300	1.8	415.	50.	.46
6	EC-21 1300-1400	2.5	310.	30.	.33
7	EC-21 1400-1500	1.5	315.	38.	.37
8	EC-21 1500-1600	1.2	305.	24.	.29
9	EC-21 1600-1700	1.6	245.	44.	.34
10	EC-21 1700-1800	2.7	265.	26.	.32
11	EC-21 1850-1900	2.1	280.	13.	.19
12	EC-21 1900-2000	2.3	300.	11.	.11
13	EC-21 2000-2114 T.D.	2.5	215.	34.	.13
14	EC-30 700-800	3.5	365.	19.	.90
15	EC-30 850-900	2.3	250.	17.	.53
16	EC-30 900-1000	2.9	200.	16.	.47
17	EC-30 1000-1100	5.4	305.	20.	1.00
18	EC-30 1100-1200	4.3	265.	32.	.89
19	EC-30 1200-1300	2.4	295.	17.	.36
20	EC-30 1300-1400	2.8	245.	19.	.43

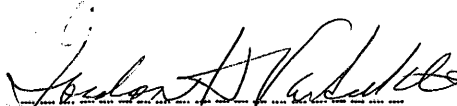
ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	Be (ppm)	Nb205 (%)
21	EC-30 1400-1450	3.0	265.	16.	.41
22	EC-30 1600-1700	3.2	295.	13.	.51
23	EC-30 1700-1800	4.5	240.	14.	.72
24	EC-30 1800-1900	4.2	235.	16.	.77
25	EC-30 1900-2000	2.0	225.	12.	.54
26	EC-30 2000-2100	2.3	200.	12.	.53
27	EC-30 2100-2200	3.1	260.	11.	.62
28	EC-30 2200-2300	3.4	215.	6.	.68
29	EC-30 2300-2400	3.9	265.	9.	.27
30	EC-30 2400-2484 T.D.	1.7	320.	12.	.24

ITEM	SAMPLE NUMBER	Pb (ppm)	Zn (ppm)	Ti (%)	U (ppm)
1	EC-21 800-900	10.	270.	1.50	22.
2	EC-21 900-1000	15.	345.	1.30	26.
3	EC-21 1050-1100	35.	510.	1.10	26.
4	EC-21 1100-1150	50.	490.	1.40	24.
5	EC-21 1250-1300	45.	810.	1.40	55.
6	EC-21 1300-1400	80.	720.	1.00	24.
7	EC-21 1400-1500	55.	650.	1.10	30.
8	EC-21 1500-1600	75.	580.	1.00	24.
9	EC-21 1600-1700	80.	720.	.95	22.
10	EC-21 1700-1800	20.	540.	1.10	24.
11	EC-21 1850-1900	10.	280.	1.30	10.
12	EC-21 1900-2000	<5.	115.	1.30	14.
13	EC-21 2000-2114 T.D.	<5.	80.	.66	15.
14	EC-30 700-800	10.	290.	2.30	13.
15	EC-30 850-900	<5.	205.	2.00	9.
16	EC-30 900-1000	<5.	210.	1.10	16.
17	EC-30 1000-1100	10.	255.	2.30	26.
18	EC-30 1100-1200	10.	670.	1.90	30.
19	EC-30 1200-1300	10.	560.	1.40	15.
20	EC-30 1300-1400	10.	530.	1.70	18.
21	EC-30 1400-1450	<5.	560.	1.60	17.
22	EC-30 1600-1700	<5.	345.	1.70	19.
23	EC-30 1700-1800	<5.	520.	1.80	17.
24	EC-30 1800-1900	15.	1300.	1.80	20.
25	EC-30 1900-2000	<5.	500.	1.40	10.
26	EC-30 2000-2100	<5.	335.	1.40	15.
27	EC-30 2100-2200	<5.	270.	1.80	26.
28	EC-30 2200-2300	<5.	115.	1.60	17.
29	EC-30 2300-2400	<5.	130.	.90	28.
30	EC-30 2400-2484 T.D.	<5.	225.	1.60	40.

JOB NO. DOH 240
December 8, 1983
PAGE 4

ITEM	SAMPLE NUMBER	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
13	EC-21 2000-2114 T.D.	1.9	15.	5000.	2050.

ITEM	SAMPLE NUMBER	Th (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)
13	EC-21 2000-2114 T.D.	<20.	790.	1700.	650.



Gordon H. VanSickle
Manager

cc: Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

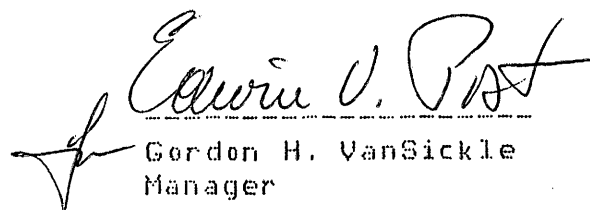
JOB NO. DOH 244
December 13, 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 25 Pulps

ITEM	SAMPLE NUMBER	Na (%)	P2O5 (%)	Nb2O5 (ppm)
1	EC-37 791-850	.13	5.6	1600.
2	EC-37 850-900	.08	3.3	790.
3	EC-37 900-950	.08	4.2	900.
4	EC-37 950-1000	.08	4.2	1650.
5	EC-37 1000-1050	.11	4.4	2150.
6	EC-37 1050-1100	.09	5.4	2150.
7	EC-37 1100-1150	.09	5.4	3750.
8	EC-37 1150-1200	.10	4.9	1900.
9	EC-37 1200-1250	.08	2.7	1500.
10	EC-37 1250-1300	.07	2.8	1850.
11	EC-37 1300-1350	.07	3.2	2250.
12	EC-37 1350-1400	.07	3.3	2050.
13	EC-37 1400-1450	.10	3.6	1550.
14	EC-26 700-750	.09	5.3	2100.
15	EC-26 750-800	.09	2.7	1700.
16	EC-26 800-850	.09	4.6	3850.
17	EC-26 850-900	.09	2.8	1250.
18	EC-26 900-950	.09	2.2	1600.
19	EC-26 950-1000	.08	4.1	2250.
20	EC-26 1000-1050	.06	3.3	1550.
21	EC-26 1050-1100	.09	2.4	2100.
22	EC-35 638-700	.11	4.7	2700.
23	EC-35 700-750	.08	4.4	1750.
24	EC-35 750-800	.08	5.2	2250.
25	EC-35 800-853 T.D.	.08	4.3	1250.

ITEM	SAMPLE NUMBER	Th (ppm)	Zr (ppm)	U (ppm)
1	EC-37 791-850	80.	295.	24.
2	EC-37 850-900	45.	255.	19.
3	EC-37 900-950	60.	295.	26.
4	EC-37 950-1000	55.	290.	36.
5	EC-37 1000-1050	95.	405.	38.
6	EC-37 1050-1100	105.	300.	14.
7	EC-37 1100-1150	130.	315.	34.
8	EC-37 1150-1200	125.	400.	22.
9	EC-37 1200-1250	50.	345.	9.
10	EC-37 1250-1300	55.	285.	7.
11	EC-37 1300-1350	60.	265.	9.
12	EC-37 1350-1400	75.	290.	11.
13	EC-37 1400-1450	95.	165.	11.
14	EC-26 700-750	70.	320.	16.
15	EC-26 750-800	45.	280.	13.
16	EC-26 800-850	50.	115.	22.
17	EC-26 850-900	40.	385.	14.
18	EC-26 900-950	70.	300.	12.
19	EC-26 950-1000	75.	255.	12.
20	EC-26 1000-1050	40.	250.	13.
21	EC-26 1050-1100	50.	235.	12.
22	EC-35 638-700	95.	300.	18.
23	EC-35 700-750	50.	275.	19.
24	EC-35 750-800	65.	265.	15.
25	EC-35 800-853 T.D.	40.	260.	13.


Gordon H. VanSickle
Manager

cc's: Ray Reynolds, Englewood
Richard Sherer, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 249
December 27, 1983

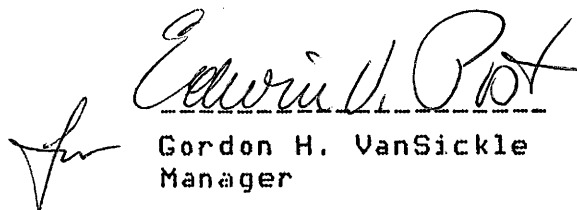
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 15 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-43 0600-0650	20500.	2.80	30.	6850.
2	EC-43 0650-0700	18500.	3.30	30.	7050.
3	EC-43 0700-0750	25000.	1.30	15.	7050.
4	EC-43 0750-0800	30500.	.85	15.	8700.
5	EC-43 0800-0850	21000.	1.20	20.	9000.
6	EC-43 0850-0900	9250.	2.20	35.	8300.
7	EC-43 0900-0950	32000.	2.10	25.	8150.
8	EC-43 0950-1000	42000.	1.60	10.	12000.
9	EC-43 1000-1050	62500.	.45	20.	10000.
10	EC-43 1050-1100	12500.	2.00	45.	6900.
11	EC-43 1100-1150	15000.	1.50	75.	6800.
12	EC-53 0600-0650	25000.	7.60	105.	575.
13	EC-53 0650-0700	27500.	8.40	105.	420.
14	EC-53 0700-0750	45000.	5.50	75.	480.
15	EC-53 0750-0800	35000.	7.10	80.	1750.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-43 0600-0650	3250.	80.	1550.	2500.
2	EC-43 0650-0700	2650.	<50.	1250.	1950.
3	EC-43 0700-0750	2700.	70.	970.	1550.
4	EC-43 0750-0800	3400.	100.	2400.	3800.
5	EC-43 0800-0850	3400.	<50.	6100.	9050.
6	EC-43 0850-0900	2100.	<50.	830.	1000.
7	EC-43 0900-0950	3300.	55.	980.	1500.
8	EC-43 0950-1000	3250.	<50.	2000.	3750.
9	EC-43 1000-1050	4650.	<50.	3950.	6900.
10	EC-43 1050-1100	4750.	<50.	960.	1250.
11	EC-43 1100-1150	3500.	<50.	780.	1100.
12	EC-53 0600-0650	2900.	120.	1200.	1850.
13	EC-53 0650-0700	1950.	65.	1500.	2550.
14	EC-53 0700-0750	3100.	<50.	4750.	7350.
15	EC-53 0750-0800	2600.	<50.	830.	1650.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-43 0600-0650	800.	13.	185.
2	EC-43 0650-0700	490.	10.	230.
3	EC-43 0700-0750	485.	6.	140.
4	EC-43 0750-0800	1100.	12.	125.
5	EC-43 0800-0850	2350.	14.	175.
6	EC-43 0850-0900	255.	10.	135.
7	EC-43 0900-0950	540.	11.	225.
8	EC-43 0950-1000	1250.	3.	560.
9	EC-43 1000-1050	2150.	6.	295.
10	EC-43 1050-1100	305.	8.	670.
11	EC-43 1100-1150	290.	10.	230.
12	EC-53 0600-0650	720.	4.	65.
13	EC-53 0650-0700	780.	2.	55.
14	EC-53 0700-0750	1950.	4.	50.
15	EC-53 0750-0800	690.	4.	75.


Gordon H. VanSickle
Manager

cc's: Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 254
January 3, 1984

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 35 Pulp Samples

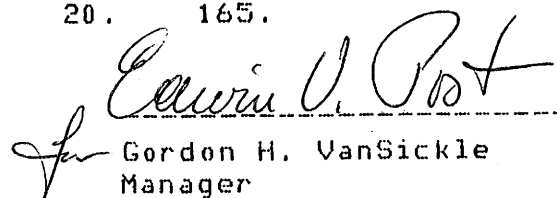
ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
1	EC-55 750-800	93500.	.33	15.	8000.	1400.
2	EC-55 800-850	67500.	.23	20.	7850.	1250.
3	EC-55 850-900	59500.	.60	20.	6450.	1300.
4	EC-55 900-950	59500.	.92	40.	7300.	1200.
5	EC-55 950-1000	70000.	.50	25.	6050.	1200.
6	EC-55 1000-1050	43000.	.44	25.	7350.	1100.
7	EC-55 1050-1100	45000.	.42	25.	6650.	2550.
8	EC-55 1100-1150	84000.	.02	15.	4150.	2200.
9	EC-55 1150-1200	57500.	.49	25.	5100.	1800.
10	EC-55 1200-1250	78500.	.04	10.	5100.	1750.
11	EC-55 1250-1300	54500.	.36	25.	5600.	1900.
12	EC-55 1300-1350	52500.	.45	25.	6450.	1650.
13	EC-55 1350-1400	57500.	.41	15.	6050.	1350.
14	EC-55 1400-1425 T.D.	49000.	.24	15.	5200.	2000.
15	EC-48 650-700	20500.	.33	40.	8700.	6200.
16	EC-48 700-750	10000.	.60	50.	8150.	5450.
17	EC-48 750-800	33500.	.14	25.	8600.	5800.
18	EC-48 800-850	39500.	.19	25.	9450.	5350.
19	EC-48 850-900	42500.	.48	35.	8750.	4100.
20	EC-48 900-950	27500.	.27	45.	10000.	4600.
21	EC-48 950-1000	25500.	.31	40.	8500.	5200.
22	EC-48 1000-1050	18000.	.48	15.	6950.	5000.
23	EC-48 1050-1100	8550.	.83	35.	7950.	5650.
24	EC-48 1100-1150	23500.	.29	50.	8900.	5150.
25	EC-48 1150-1200	35000.	.31	50.	10000.	5050.

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
26	EC-48 1200-1250	31000.	.60	65.	9900.	4350.
27	EC-48 1250-1300	18000.	.71	40.	8950.	3950.
28	EC-48 1300-1350	20500.	.71	65.	7550.	3850.
29	EC-48 1350-1400	12000.	.42	20.	6800.	2700.
30	EC-48 1400-1450	22500.	.21	15.	7100.	2850.
31	EC-48 1450-1500	17500.	.41	45.	6750.	3950.
32	EC-48 1500-1550	22500.	.20	30.	6550.	3600.
33	EC-48 1550-1600	16000.	.91	35.	6150.	2550.
34	EC-48 1600-1650	15000.	.84	30.	6550.	2800.
35	EC-48 1650-1700	12000.	.99	40.	6400.	2650.

ITEM	SAMPLE NUMBER	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-55 750-800	175.	830.	2350.
2	EC-55 800-850	180.	1800.	4050.
3	EC-55 850-900	165.	2150.	4650.
4	EC-55 900-950	290.	1550.	3400.
5	EC-55 950-1000	240.	2600.	5500.
6	EC-55 1000-1050	<50.	3100.	7350.
7	EC-55 1050-1100	65.	830.	2000.
8	EC-55 1100-1150	205.	2700.	5950.
9	EC-55 1150-1200	45.	1500.	3200.
10	EC-55 1200-1250	60.	2700.	5900.
11	EC-55 1250-1300	175.	1100.	2650.
12	EC-55 1300-1350	60.	910.	2200.
13	EC-55 1350-1400	80.	1650.	4000.
14	EC-55 1400-1425 T.D.	<50.	1300.	2750.
15	EC-48 650-700	70.	2850.	3900.
16	EC-48 700-750	130.	890.	1550.
17	EC-48 750-800	<50.	4300.	6300.
18	EC-48 800-850	<50.	2200.	4300.
19	EC-48 850-900	<50.	1500.	3000.
20	EC-48 900-950	80.	1200.	2550.
21	EC-48 950-1000	75.	750.	1500.
22	EC-48 1000-1050	205.	485.	1200.
23	EC-48 1050-1100	65.	710.	1500.
24	EC-48 1100-1150	50.	1450.	2950.
25	EC-48 1150-1200	<50.	1800.	3350.
26	EC-48 1200-1250	<50.	1500.	2800.
27	EC-48 1250-1300	65.	1400.	2850.
28	EC-48 1300-1350	130.	1300.	2750.
29	EC-48 1350-1400	60.	435.	1300.
30	EC-48 1400-1450	70.	1800.	3500.
31	EC-48 1450-1500	75.	1250.	2250.
32	EC-48 1500-1550	75.	2500.	4300.
33	EC-48 1550-1600	145.	1350.	2300.
34	EC-48 1600-1650	130.	930.	1950.
35	EC-48 1650-1700	120.	950.	1900.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-55 750-800	980.	8.	30.
2	EC-55 800-850	1500.	7.	35.
3	EC-55 850-900	1450.	7.	40.
4	EC-55 900-950	1350.	6.	40.
5	EC-55 950-1000	1850.	10.	90.
6	EC-55 1000-1050	2650.	14.	45.
7	EC-55 1050-1100	730.	19.	50.
8	EC-55 1100-1150	2050.	17.	70.
9	EC-55 1150-1200	1150.	9.	95.
10	EC-55 1200-1250	2000.	15.	85.
11	EC-55 1250-1300	1000.	20.	165.
12	EC-55 1300-1350	750.	11.	80.
13	EC-55 1350-1400	1450.	10.	95.
14	EC-55 1400-1425 T.D.	910.	17.	100.
15	EC-48 650-700	860.	11.	255.
16	EC-48 700-750	560.	10.	210.
17	EC-48 750-800	1450.	11.	355.
18	EC-48 800-850	1400.	13.	300.
19	EC-48 850-900	1150.	13.	330.
20	EC-48 900-950	910.	12.	300.
21	EC-48 950-1000	610.	20.	490.
22	EC-48 1000-1050	485.	22.	95.
23	EC-48 1050-1100	580.	11.	155.
24	EC-48 1100-1150	910.	22.	170.
25	EC-48 1150-1200	950.	13.	195.
26	EC-48 1200-1250	770.	18.	165.
27	EC-48 1250-1300	820.	18.	180.
28	EC-48 1300-1350	820.	28.	275.
29	EC-48 1350-1400	500.	22.	150.
30	EC-48 1400-1450	1100.	18.	130.
31	EC-48 1450-1500	760.	14.	140.
32	EC-48 1500-1550	1350.	24.	130.
33	EC-48 1550-1600	740.	26.	175.
34	EC-48 1600-1650	710.	22.	110.
35	EC-48 1650-1700	650.	20.	165.

cc's: R. Sherer, Englewood
R. Reynolds, Englewood


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

Plotted ✓
JOB NO. DOH 129
December 13, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

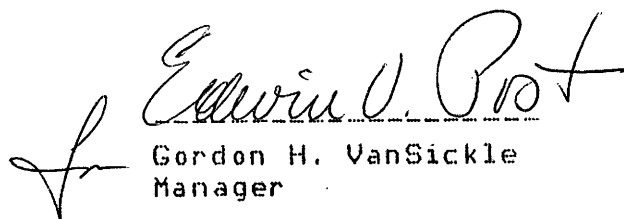
Analysis of 14 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-13/0600-0700	.27	2.7	1.80	1900.	55.
2	EC-13/0700-0800	.13	2.0	1.50	1650.	40.
3	EC-13/0800-0900	.13	2.4	.99	2100.	35.
4	EC-13/0900-1000	.16	3.6	1.60	2950.	60.
5	EC-13/1000-1100	.14	2.6	1.40	2000.	55.
6	EC-13/1100-1200	.13	1.6	1.40	1850.	40.
7	EC-13/1200-1300	.15	1.7	1.60	2050.	55.
8	EC-13/1300-1400	.13	1.5	1.10	2300.	50.
9	EC-13/1400-1500	.14	2.2	.92	2650.	45.
10	EC-13/1500-1600	.14	3.9	.98	1950.	45.
11	EC-13/1600-1700	.17	3.0	.82	2650.	55.
12	EC-13/1700-1800	.12	1.9	.81	2650.	40.
13	EC-13/1800-1900	.12	1.9	.94	2450.	40.
14	EC-13/1900-2001 T.D.	.11	1.5	.87	3650.	45.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-13/0600-0700	<.2	80.	15.	230.	40.
2	EC-13/0700-0800	<.2	15.	25.	205.	25.
3	EC-13/0800-0900	<.2	40.	20.	140.	15.
4	EC-13/0900-1000	<.2	35.	15.	230.	25.
5	EC-13/1000-1100	<.2	35.	10.	160.	25.
6	EC-13/1100-1200	.2	30.	5.	260.	25.
7	EC-13/1200-1300	.2	50.	15.	240.	30.
8	EC-13/1300-1400	.4	35.	35.	550.	30.
9	EC-13/1400-1500	.4	25.	<5.	235.	25.
10	EC-13/1500-1600	<.2	20.	<5.	235.	20.
11	EC-13/1600-1700	<.2	20.	5.	375.	20.
12	EC-13/1700-1800	.2	20.	<5.	255.	20.
13	EC-13/1800-1900	<.2	25.	<5.	195.	25.
14	EC-13/1900-2001 T.D.	<.2	30.	<5.	155.	20.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-13/0600-0700	95.	95.	6.	.65	12000.
2	EC-13/0700-0800	70.	115.	6.	.98	16000.
3	EC-13/0800-0900	35.	90.	18.	.66	14500.
4	EC-13/0900-1000	40.	55.	34.	1.05	12500.
5	EC-13/1000-1100	50.	85.	30.	.68	24000.
6	EC-13/1100-1200	55.	90.	14.	.52	14000.
7	EC-13/1200-1300	65.	100.	20.	.54	7550.
8	EC-13/1300-1400	55.	80.	36.	.64	8850.
9	EC-13/1400-1500	40.	65.	34.	.58	11500.
10	EC-13/1500-1600	35.	55.	30.	.48	13000.
11	EC-13/1600-1700	40.	60.	44.	.54	12000.
12	EC-13/1700-1800	30.	50.	60.	.50	17500.
13	EC-13/1800-1900	35.	50.	38.	.54	25500.
14	EC-13/1900-2001 T.D.	35.	60.	30.	.54	19500.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-13/0600-0700	20.	5000.	12.	425.	150.
2	EC-13/0700-0800	19.	5800.	8.	380.	150.
3	EC-13/0800-0900	11.	6750.	22.	265.	150.
4	EC-13/0900-1000	15.	6050.	11.	310.	100.
5	EC-13/1000-1100	10.	6150.	7.	275.	100.
6	EC-13/1100-1200	15.	5800.	13.	315.	150.
7	EC-13/1200-1300	12.	5400.	13.	320.	150.
8	EC-13/1300-1400	13.	6500.	10.	270.	100.
9	EC-13/1400-1500	16.	6850.	11.	295.	100.
10	EC-13/1500-1600	22.	5000.	12.	250.	200.
11	EC-13/1600-1700	14.	6400.	12.	240.	150.
12	EC-13/1700-1800	10.	7100.	13.	215.	100.
13	EC-13/1800-1900	11.	6500.	14.	260.	100.
14	EC-13/1900-2001 T.D.	9.	6850.	14.	215.	150.


Gordon H. VanSickle
Manager

cc: ✓ D. Sherer
Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 092
June 3, 1982

Molycorp, Inc.
Attn: Richard L. Sherer, Ph.D.
Suite 200
94 Inverness Terrace East
Englewood, Colorado 80112

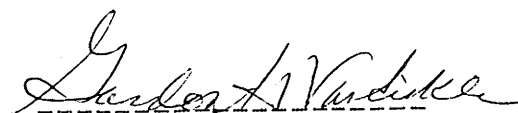
Analysis of 21 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-15 712-800	.11	.39	.39	2350.	<10.
2	EC-15 800-900	.14	1.20	.81	2600.	135.
3	EC-15 900-1000	.07	.41	.48	1450.	<10.
4	EC-15 1000-1100	.06	.60	.34	2250.	20.
5	EC-15 1100-1200	.07	.40	.45	2000.	<10.
6	EC-15 1200-1300	.09	1.10	.73	2150.	30.
7	EC-15 1300-1400	.47	2.30	2.01	2350.	50.
8	EC-15 1400-1500	.66	2.20	2.00	2350.	50.
9	EC-15 1500-1600	.09	1.30	.69	2350.	100.
10	EC-15 1600-1700	.06	1.30	.70	1700.	85.
11	EC-15 1700-1800	.07	1.20	.76	2350.	80.
12	EC-15 1800-1900	.12	1.90	1.44	1600.	130.
13	EC-15 1900-2000	.19	2.30	2.30	2100.	130.
14	EC-15 2000-2100	.18	1.60	1.74	2200.	160.
15	EC-15 2100-2200	.36	2.60	1.85	2300.	95.
16	EC-15 2200-2300	.21	2.50	2.12	1550.	65.
17	EC-15 2300-2400	.08	2.00	.98	2300.	55.
18	EC-15 2400-2500	.09	1.70	.63	2250.	70.
19	EC-15 2500-2600	.16	2.00	1.48	1600.	65.
20	EC-15 2600-2700	.12	1.60	1.30	1550.	45.
21	EC-15 2700-2755 T.D.	.09	1.40	1.92	1000.	25.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-15 712-800	<.2	10.	15.	110.	<5.
2	EC-15 800-900	<.2	10.	25.	125.	10.
3	EC-15 900-1000	<.2	15.	<5.	340.	10.
4	EC-15 1000-1100	<.2	15.	<5.	215.	10.
5	EC-15 1100-1200	<.2	10.	15.	160.	5.
6	EC-15 1200-1300	<.2	35.	<5.	210.	15.
7	EC-15 1300-1400	.2	65.	25.	180.	35.
8	EC-15 1400-1500	<.2	65.	10.	135.	40.
9	EC-15 1500-1600	<.2	25.	<5.	255.	20.
10	EC-15 1600-1700	<.2	20.	10.	225.	15.
11	EC-15 1700-1800	<.2	30.	<5.	255.	15.
12	EC-15 1800-1900	<.2	40.	10.	710.	25.
13	EC-15 1900-2000	.4	60.	10.	650.	30.
14	EC-15 2000-2100	.2	40.	<5.	510.	30.
15	EC-15 2100-2200	.4	60.	10.	410.	35.
16	EC-15 2200-2300	.4	85.	<5.	360.	35.
17	EC-15 2300-2400	<.2	85.	<5.	270.	25.
18	EC-15 2400-2500	<.2	50.	<5.	180.	30.
19	EC-15 2500-2600	<.2	65.	35.	430.	40.
20	EC-15 2600-2700	<.2	35.	10.	325.	30.
21	EC-15 2700-2755 T.D.	<.2	40.	10.	255.	30.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-15 712-800	15.	30.	4.	.86	6800.
2	EC-15 800-900	25.	25.	<2.	1.30	4590.
3	EC-15 900-1000	25.	55.	<2.	.34	42000.
4	EC-15 1000-1100	10.	45.	24.	.22	23000.
5	EC-15 1100-1200	15.	60.	4.	.30	6950.
6	EC-15 1200-1300	35.	110.	12.	.34	13000.
7	EC-15 1300-1400	135.	200.	12.	.50	4480.
8	EC-15 1400-1500	170.	200.	14.	.34	2790.
9	EC-15 1500-1600	60.	165.	6.	.34	13000.
10	EC-15 1600-1700	35.	100.	8.	.29	15000.
11	EC-15 1700-1800	40.	100.	4.	.34	15500.
12	EC-15 1800-1900	100.	175.	<2.	.53	16500.
13	EC-15 1900-2000	85.	175.	<2.	.89	28500.
14	EC-15 2000-2100	70.	150.	<2.	1.60	24000.
15	EC-15 2100-2200	100.	210.	<2.	1.00	21500.
16	EC-15 2200-2300	105.	235.	<2.	.46	25000.
17	EC-15 2300-2400	70.	190.	8.	.50	20500.
18	EC-15 2400-2500	90.	210.	<2.	.57	10000.
19	EC-15 2500-2600	155.	220.	<2.	.46	3900.
20	EC-15 2600-2700	90.	170.	<2.	.43	7690.
21	EC-15 2700-2755 T.D.	130.	180.	<2.	.34	4180.

ITEM	SAMPLE NUMBER	Re (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-15 712-800	6.	5750.	36.	100.	100.
2	EC-15 800-900	15.	4800.	60.	90.	150.
3	EC-15 900-1000	12.	4950.	24.	135.	50.
4	EC-15 1000-1100	6.	5500.	19.	95.	70.
5	EC-15 1100-1200	7.	5400.	9.	100.	70.
6	EC-15 1200-1300	9.	4950.	13.	145.	70.
7	EC-15 1300-1400	10.	3800.	5.	290.	150.
8	EC-15 1400-1500	8.	3300.	5.	270.	150.
9	EC-15 1500-1600	13.	5000.	10.	170.	70.
10	EC-15 1600-1700	11.	5650.	9.	145.	30.
11	EC-15 1700-1800	8.	5300.	13.	145.	70.
12	EC-15 1800-1900	22.	5300.	10.	235.	100.
13	EC-15 1900-2000	12.	4950.	9.	275.	70.
14	EC-15 2000-2100	9.	5750.	11.	250.	30.
15	EC-15 2100-2200	13.	6250.	5.	285.	150.
16	EC-15 2200-2300	10.	4650.	6.	320.	50.
17	EC-15 2300-2400	8.	4900.	9.	250.	100.
18	EC-15 2400-2500	9.	5050.	7.	210.	100.
19	EC-15 2500-2600	11.	3850.	8.	340.	70.
20	EC-15 2600-2700	12.	4950.	10.	315.	150.
21	EC-15 2700-2755 T.D.	14.	4600.	11.	355.	100.



Gordon H. VanSickle
Manager

Plotted ✓

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 131
December 27, 1982

Molycorp, Inc.
Attn: N. Dimick, Geo Tech
Box 37
Louviers, Colorado 80131

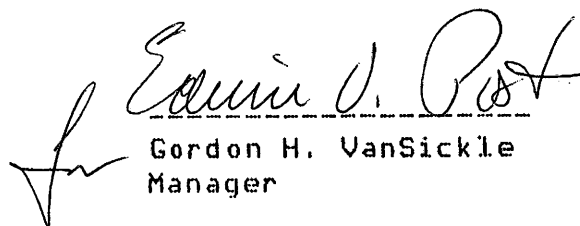
Analysis of 15 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-17/546-600	.17	1.70	2.10	1200.	125.
2	EC-17/600-700	.17	1.50	1.80	1350.	115.
3	EC-17/700-800	.38	2.10	2.00	920.	155.
4	EC-17/800-900	.53	1.90	2.40	660.	385.
5	EC-17/900-1000	.76	1.70	2.10	1150.	440.
6	EC-17/1000-1100	.52	2.80	2.30	800.	255.
7	EC-17/1100-1200	.59	2.60	2.00	840.	215.
8	EC-17/1200-1300	.83	2.50	1.80	1000.	230.
9	EC-17/1300-1400	.41	2.10	1.70	1600.	185.
10	EC-17/1400-1500	.83	2.60	1.90	1150.	190.
11	EC-17/1500-1600	.67	2.90	1.90	870.	195.
12	EC-17/1600-1700	.37	1.80	1.70	1150.	180.
13	EC-17/1700-1800	.22	1.10	1.50	2300.	105.
14	EC-17/1800-1900	.13	.77	.79	3200.	130.
15	EC-17/1900-2010 T.D.	.27	1.80	1.70	1950.	180.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-17/546-600	<.2	20.	15.	405.	35.
2	EC-17/600-700	<.2	25.	10.	225.	45.
3	EC-17/700-800	.4	80.	115.	1000.	50.
4	EC-17/800-900	<.2	75.	310.	720.	60.
5	EC-17/900-1000	<.2	70.	100.	400.	55.
6	EC-17/1000-1100	<.2	75.	90.	540.	50.
7	EC-17/1100-1200	<.2	60.	110.	440.	50.
8	EC-17/1200-1300	.2	65.	70.	620.	50.
9	EC-17/1300-1400	.6	75.	95.	770.	40.
10	EC-17/1400-1500	<.2	65.	100.	1000.	50.
11	EC-17/1500-1600	<.2	75.	65.	620.	45.
12	EC-17/1600-1700	<.2	50.	115.	1650.	40.
13	EC-17/1700-1800	.6	60.	30.	790.	40.
14	EC-17/1800-1900	.7	35.	10.	285.	20.
15	EC-17/1900-2010 T.D.	.9	40.	15.	1050.	30.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (%)
1	EC-17/546-600	295.	640.	12.	.67	2.20
2	EC-17/600-700	345.	670.	6.	1.55	1.20
3	EC-17/700-800	300.	400.	50.	1.20	.63
4	EC-17/800-900	405.	330.	40.	1.00	.12
5	EC-17/900-1000	405.	355.	55.	1.10	.31
6	EC-17/1000-1100	310.	315.	28.	1.20	.27
7	EC-17/1100-1200	305.	320.	60.	1.10	.27
8	EC-17/1200-1300	355.	390.	75.	1.30	.72
9	EC-17/1300-1400	250.	315.	85.	1.30	.96
10	EC-17/1400-1500	360.	380.	30.	1.40	.55
11	EC-17/1500-1600	310.	375.	24.	1.60	.39
12	EC-17/1600-1700	190.	250.	48.	1.10	1.10
13	EC-17/1700-1800	175.	235.	40.	.66	2.30
14	EC-17/1800-1900	65.	105.	115.	.64	3.60
15	EC-17/1900-2010 T.D.	130.	185.	75.	1.20	1.10

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-17/546-600	36.	4100.	3.	485.	100.
2	EC-17/600-700	34.	5300.	2.	345.	300.
3	EC-17/700-800	36.	5600.	2.	335.	200.
4	EC-17/800-900	16.	3700.	2.	285.	150.
5	EC-17/900-1000	22.	4400.	<2.	280.	100.
6	EC-17/1000-1100	28.	4850.	4.	340.	100.
7	EC-17/1100-1200	20.	5500.	3.	295.	100.
8	EC-17/1200-1300	24.	6150.	3.	295.	100.
9	EC-17/1300-1400	17.	6000.	5.	260.	100.
10	EC-17/1400-1500	15.	5400.	3.	315.	100.
11	EC-17/1500-1600	18.	5250.	3.	335.	100.
12	EC-17/1600-1700	13.	5300.	4.	240.	150.
13	EC-17/1700-1800	11.	5450.	5.	185.	150.
14	EC-17/1800-1900	6.	7900.	3.	105.	50.
15	EC-17/1900-2010 T.D.	11.	6300.	3.	215.	100.


Gordon H. VanSickle
Manager

cc's: Ray Reynolds
✓ Dick Sherer.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

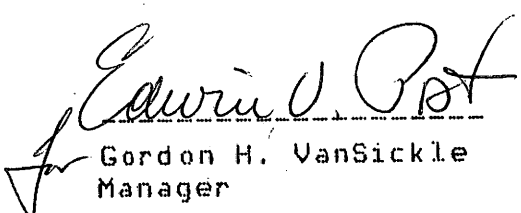
JOB NO. DOH 149
April 13, 1983

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 1 Pulp Sample

ITEM	SAMPLE NUMBER	Th (ppm)
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1	EC-17 1700-1800	<10.
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Gordon H. VanSickle
Manager

cc: Dick Sherer, Englewood
Ray Reynolds, Englewood

ELK CREEK CARBONATITE DATA (SKYLINE LABS)

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

Elemental analyses are presented herein as parts per million (ppm); analyses were performed for multiple elements. Values for thorium (Th) in these data may be of particular interest to property owners, investors, developers, and the geological community.

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 26 2100-2200" refers to a sample removed from the depth interval 2100 ft to 2200 ft from drill hole 26. The abbreviation "T.D.", as used in some analysis identifiers, refers to the total depth drilled in a given drill hole (i.e., the greatest depth attained).

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

EC 3/12 to EC-29

EC-3/12

EC-4

EC-10

EC-13

EC-15

EC-17

EC-20

EC-26

EC-29

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

R. Shiner

Plotted.

JOB NO. DOH 130
December 13, 1982

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

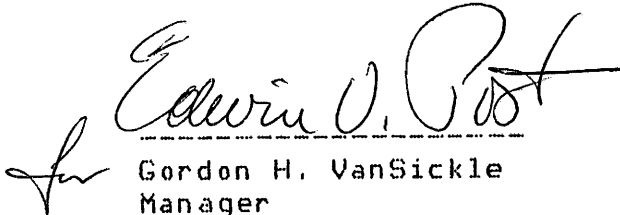
Analysis of 7 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-3/12 525-600	.09	1.50	.36	4400.	95.
2	EC-3/12 600-700	.10	1.20	.34	2550.	90.
3	EC-3/12 700-800	.08	.92	.67	2450.	60.
4	EC-3/12 800-900	.09	1.90	.45	4200.	90.
5	EC-3/12 900-1000	.10	1.50	.35	4300.	80.
6	EC-3/12 1000-1100	.09	1.50	.89	4000.	50.
7	EC-3/12 1100-1204TD	.09	1.50	.38	4250.	45.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-3/12 525-600	<.2	10.	15.	70.	10.
2	EC-3/12 600-700	<.2	10.	10.	80.	5.
3	EC-3/12 700-800	<.2	15.	10.	115.	10.
4	EC-3/12 800-900	<.2	10.	20.	135.	5.
5	EC-3/12 900-1000	.2	20.	<5.	105.	15.
6	EC-3/12 1000-1100	<.2	15.	<5.	95.	5.
7	EC-3/12 1100-1204TD	.8	20.	15.	190.	10.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-3/12 525-600	15.	40.	6.	.59	8450.
2	EC-3/12 600-700	15.	35.	6.	.48	9300.
3	EC-3/12 700-800	45.	85.	<2.	.35	12500.
4	EC-3/12 800-900	15.	40.	12.	.90	3750.
5	EC-3/12 900-1000	20.	55.	6.	.71	6300.
6	EC-3/12 1000-1100	15.	60.	12.	.66	18500.
7	EC-3/12 1100-1204TD	10.	30.	95.	.73	11000.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-3/12 525-600	6.	7550.	7.	140.	20.
2	EC-3/12 600-700	6.	7600.	5.	140.	50.
3	EC-3/12 700-800	13.	7450.	5.	175.	50.
4	EC-3/12 800-900	8.	5800.	10.	120.	50.
5	EC-3/12 900-1000	6.	5550.	13.	150.	70.
6	EC-3/12 1000-1100	8.	6950.	11.	205.	70.
7	EC-3/12 1100-1204TD	5.	5650.	10.	120.	30.


Gordon H. VanSickle
Manager

cc: ✓ D. Sherer
Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

CORRECTED COPY
JOB NO. DOH 143
April 8, 1983

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 142 Pulp Samples

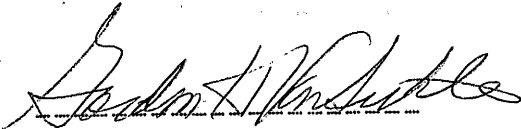
ITEM	SAMPLE NUMBER	Th (ppm)
1	EC-3/12 0525-0600	80.
2	EC-3/12 0600-0700	100.
3	EC-3/12 0700-0800	120.
4	EC-3/12 0800-0900	40.
5	EC-3/12 0900-1000	80.
6	EC-3/12 1000-1100	60.
7	EC-3/12 1100-1204TD	40.
8	EC-4 712-800	<20.
9	EC-4 0800-0900	<20.
10	EC-4 0900-1000	20.
11	EC-4 1000-1100	120.
12	EC-4 1100-1200	<20.
13	EC-4 1200-1300	40.
14	EC-4 1300-1400	<20.
15	EC-4 1400-1500	40.
16	EC-4 1500-1600	<20.
17	EC-4 1600-1700	<20.
18	EC-4 1700-1800	120.
19	EC-4 1800-1900	20.
20	EC-4 1900-2000	<20.
21	EC-4 2000-2105	<20.
22	EC-4 2105-2200	<20.
23	EC-4 2200-2300	<20.
24	EC-4 2300-2400	<20.
25	EC-4 2400-2500	<20.

ITEM	SAMPLE NUMBER	Th (ppm)
26	EC-4 2500-2600	20.
27	EC-4 2600-2653TD	<20.
28	EC-10 0730-0795	20.
29	EC-10 0800-0900	<20.
30	EC-10 0900-1000	20.
31	EC-10 1000-1100	40.
32	EC-10 1100-1200	<20.
33	EC-10 1200-1300	80.
34	EC-10 1300-1400	20.
35	EC-10 1400-1500	<20.
36	EC-10 1500-1600	20.
37	EC-10 1600-1700	<20.
38	EC-10 1700-1800	20.
39	EC-10 1800-1899TD	40.
40	EC-13 0600-0700	100.
41	EC-13 0700-0800	100.
42	EC-13 0800-0900	<20.
43	EC-13 0900-1000	40.
44	EC-13 1000-1100	40.
45	EC-13 1100-1200	<20.
46	EC-13 1200-1300	40.
47	EC-13 1300-1400	40.
48	EC-13 1400-1500	<20.
49	EC-13 1500-1600	20.
50	EC-13 1600-1700	40.
51	EC-13 1700-1800	40.
52	EC-13 1800-1900	40.
53	EC-13 1900-2000TD	40.
54	EC-15 0712-0800	200.
55	EC-15 0800-0900	280.
56	EC-15 0900-1000	135.
57	EC-15 1000-1100	60.
58	EC-15 1100-1200	80.
59	EC-15 1200-1500	120.
60	EC-15 1300-1400	<20.

ITEM	SAMPLE NUMBER	Th (ppm)
61	EC-15 1400-1500	<20.
62	EC-15 1500-1600	80.
63	EC-15 1600-1700	40.
64	EC-15 1700-1800	80.
65	EC-15 1800-1900	165.
66	EC-15 1900-2000	120.
67	EC-15 2000-2100	205.
68	EC-15 2100-2200	100.
69	EC-15 2200-2300	80.
70	EC-15 2300-2400	80.
71	EC-15 2400-2500	60.
72	EC-15 2500-2600	<20.
73	EC-15 2600-2700	60.
74	EC-15 2700-2755TD	<20.
75	EC-17 0546-0600	40.
76	EC-17 0600-0700	<20.
77	EC-17 0700-0800	<20.
78	EC-17 0800-0900	<20.
79	EC-17 0900-1000	<20.
80	EC-17 1000-1100	<20.
81	EC-17 1100-1200	<20.
82	EC-17 1200-1300	<20.
83	EC-17 1300-1400	<20.
84	EC-17 1400-1500	<20.
85	EC-17 1500-1600	<20.
86	EC-17 1600-1700	<20.
87	EC-17 1800-1900	<20.
88	EC-17 1900-2010TD	<20.
89	EC-20 0610-0700	200.
90	EC-20 0700-0800	235.
91	EC-20 0800-0900	220.
92	EC-20 0900-1000	260.
93	EC-20 1000-1100	265.
94	EC-20 1100-1200	80.
95	EC-20 1200-1300	160.

ITEM	SAMPLE NUMBER	Th (ppm)
96	EC-20 1300-1400	180.
97	EC-20 1400-1500	220.
98	EC-20 1500-1600	160.
99	EC-20 1600-1700	200.
100	EC-20 1700-1800	235.
101	EC-20 1800-1900	195.
102	EC-20 1900-2000	200.
103	EC-20 2000-2100	220.
104	EC-20 2100-2200	215.
105	EC-20 2200-2300	155.
106	EC-20 2300-2424.5TD	185.
107	EC-26 0630-0700	80.
108	EC-26 0700-0800	100.
109	EC-26 0800-0900	60.
110	EC-26 0900-1000	120.
111	EC-26 1000-1100	60.
112	EC-26 1100-1200	100.
113	EC-26 1200-1300	145.
114	EC-26 1300-1400	120.
115	EC-26 1400-1500	140.
116	EC-26 1500-1600	145.
117	EC-26 1600-1700	155.
118	EC-26 1700-1800	175.
119	EC-26 1800-1900	280.
120	EC-26 1900-2000	275.
121	EC-26 2000-2100	195.
122	EC-26 2100-2200	200.
123	EC-26 2200-2300	220.
124	EC-26 2300-2405TD	120.
125	EC-29 0654-0700	80.
126	EC-29 0700-0800	100.
127	EC-29 0800-0900	120.
128	EC-29 0900-1000	140.
129	EC-29 1000-1100	195.
130	EC-29 1100-1200	295.

ITEM	SAMPLE NUMBER	Th (ppm)
131	EC-29 1200-1300	180.
132	EC-29 1300-1400	120.
133	EC-29 1400-1500	220.
134	EC-29 1500-1600	285.
135	EC-29 1600-1700	365.
136	EC-29 1700-1800	275.
137	EC-29 1800-1900	220.
138	EC-29 1900-2000	120.
139	EC-29 2000-2100	200.
140	EC-29 2100-2200	195.
141	EC-29 2200-2300	185.
142	EC-29 2300-2382TD	180.


Gordon H. VanSickle
Manager

cc's: Dick Sherer, Englewood
Ray Reynolds, Englewood

ELK CREEK CARBONATITE REE DATA (SKYLINE LABS)

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

Elemental analyses are presented herein as parts per million (ppm); analyses were performed for multiple elements. Analytical values for the rare-earth elements (REE) lanthanum (La), cerium (Ce), and neodymium (Nd) may be of particular interest to property owners, investors, developers, and the geological community.

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 18 700-800" refers to a sample removed from the depth interval 700 ft to 800 ft from drill hole 18. The abbreviation "T.D.", as used in some analysis identifiers, refers to the total depth drilled in a given drill hole (i.e., the greatest depth attained).

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

CA-1
CA-2
CA-3
CA-5
EC-18
EC-19
EC-20
EC-21
EC-26
EC-27
EC-29
EC-30
EC-35
EC-36
EC-37

EC-41
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EC-64
EC-65
EC-66
EC-67
EC-68
EC-69

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 290

June 13, 1984

Phase III - 1984

Molycorp, Inc.

Attn: D. Sherer

P.O. Box 3976

Englewood, Colorado 80155

Analysis of 150 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-18 0628-0700	160.	395.	130.
2	EC-18 0700-0800	115.	280.	135.
3	EC-18 0800-0900	170.	425.	200.
4	EC-18 0900-1000	380.	870.	355.
5	EC-18 1000-1100	235.	490.	205.
6	EC-18 1100-1200	340.	650.	240.
7	EC-18 1200-1300	305.	650.	250.
19	EC-19 1500-1600	790.	1800.	740.
20	EC-19 1600-1700	410.	960.	360.
22	EC-19 1800-1900	280.	630.	260.
23	EC-19 1900-2000	270.	670.	285.
24	EC-19 2000-2100	780.	1850.	830.
27	EC-21 0700-0800	1100.	2750.	1200.
28	EC-21 0800-0900	375.	940.	640.
29	EC-21 0900-1000	365.	930.	540.
30	EC-21 1000-1100	580.	1300.	630.
31	EC-21 1100-1200	240.	580.	255.
32	EC-21 1200-1300	420.	900.	360.
33	EC-21 1300-1400	1000.	2050.	780.
34	EC-21 1400-1500	365.	920.	415.
35	EC-21 1500-1600	430.	860.	350.
36	EC-21 1600-1700	420.	900.	400.
37	EC-21 1700-1800	500.	1200.	500.
38	EC-21 1800-1900	780.	1800.	780.
39	EC-21 1900-2000	570.	1350.	660.

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
41	EC-27 0620-0700	520.	1400.	620.
42	EC-27 0700-0800	580.	1250.	530.
43	EC-27 0800-0900	475.	1050.	420.
44	EC-27 0900-1000	520.	1150.	520.
45	EC-27 1000-1100	560.	1400.	610.
46	EC-27 1100-1200	740.	1600.	640.
47	EC-27 1200-1300	510.	1150.	510.
48	EC-27 1300-1400	385.	930.	490.
49	EC-27 1400-1500	375.	930.	465.
50	EC-27 1500-1600	485.	1100.	455.
51	EC-27 1600-1700	410.	980.	440.
52	EC-27 1700-1800	420.	1000.	430.
53	EC-27 1800-1900	200.	470.	220.
54	EC-27 1900-2000	245.	590.	265.
55	EC-27 2000-2100	225.	570.	300.
56	EC-27 2100-2200	340.	790.	395.
57	EC-27 2200-2303 T.D.	270.	650.	315.
58	EC-30 0600-0700	365.	1100.	690.
59	EC-30 0700-0800	185.	620.	440.
60	EC-30 0800-0900	290.	800.	425.
61	EC-30 0900-1000	590.	1450.	640.
62	EC-30 1000-1100	210.	570.	470.
63	EC-30 1100-1200	210.	710.	520.
64	EC-30 1200-1300	435.	1050.	520.
65	EC-30 1300-1400	290.	730.	385.
66	EC-30 1400-1500	345.	890.	405.
67	EC-30 1500-1600	310.	750.	350.
68	EC-30 1600-1700	245.	690.	380.
69	EC-30 1700-1800	105.	375.	320.
70	EC-30 1800-1900	165.	550.	365.
71	EC-30 1900-2000	360.	1000.	480.
72	EC-30 2000-2100	530.	1300.	680.
73	EC-30 2100-2200	220.	620.	350.
74	EC-30 2200-2300	280.	830.	510.
75	EC-30 2300-2400	350.	950.	520.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
76	EC-30 2400-2484 T.D.	325.	870.	395.
77	EC-35 0638-0700	265.	610.	270.
78	EC-35 0700-0800	175.	415.	210.
79	EC-35 0800-0853 T.D.	180.	465.	215.
80	EC-36 0704-0800	150.	415.	245.
81	EC-36 0800-0900	175.	470.	240.
82	EC-36 0900-1000	180.	385.	195.
83	EC-36 1000-1100	195.	440.	205.
84	EC-36 1100-1200	165.	375.	210.
85	EC-36 1200-1300	120.	300.	240.
86	EC-36 1300-1400	420.	950.	355.
87	EC-36 1400-1500	335.	690.	265.
88	EC-36 1500-1555	345.	880.	445.
89	EC-37 0791-0900	120.	290.	180.
90	EC-37 0900-1000	155.	340.	160.
91	EC-37 1000-1100	220.	465.	230.
92	EC-37 1100-1200	160.	405.	200.
93	EC-37 1200-1300	130.	325.	150.
94	EC-37 1300-1400	130.	255.	110.
95	EC-37 1400-1501 T.D.	465.	940.	420.
105	EC-41 1600-1700	710.	1100.	350.
106	EC-41 1700-1800	80.	205.	90.
107	EC-41 1800-1900	150.	345.	165.
108	EC-41 1900-2015 T.D.	280.	660.	305.
109	EC-43 0510-0600	830.	1750.	630.
115	EC-43 1100-1200	690.	1300.	440.
116	EC-43 1200-1300	375.	910.	350.
117	EC-43 1300-1400	325.	750.	290.
118	EC-43 1400-1501 T.D.	195.	380.	100.
130	EC-48 1700-1800	405.	850.	350.
131	EC-48 1800-1900	1150.	1850.	690.
132	EC-48 1900-2000	970.	1800.	650.
133	EC-48 2000-2100	930.	1650.	560.
134	EC-48 2100-2200	530.	1100.	415.
135	EC-48 2200-2300	250.	580.	250.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
136	EC-48 2300-2400	1050.	1950.	690.
137	EC-48 2400-2440 T.D.	800.	1750.	750.
140	EC-53 0800-0900	170.	700.	600.
141	EC-53 0900-1000	380.	1200.	620.
142	EC-53 1000-1100	255.	1050.	640.
143	EC-53 1100-1199 T.D.	100.	495.	425.
144	EC-55 0730-0800	1100.	2700.	1100.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Th (ppm)	U (ppm)	Zn (ppm)
1	EC-18 0628-0700	4700.	N/R	N/R	135.
2	EC-18 0700-0800	6250.	N/R	N/R	115.
3	EC-18 0800-0900	12000.	N/R	N/R	115.
4	EC-18 0900-1000	10000.	85.	20.	190.
5	EC-18 1000-1100	9800.	65.	19.	230.
6	EC-18 1100-1200	8600.	100.	18.	160.
7	EC-18 1200-1300	9700.	80.	12.	160.
19	EC-19 1500-1600	14500.	75.	10.	315.
20	EC-19 1600-1700	13000.	110.	18.	410.
22	EC-19 1800-1900	12500.	85.	12.	280.
23	EC-19 1900-2000	14500.	145.	9.	345.
24	EC-19 2000-2100	15500.	120.	15.	235.
27	EC-21 0700-0800	23000.	50.	6.	125.
28	EC-21 0800-0900	N/R	205.	N/R	N/R
29	EC-21 0900-1000	N/R	200.	N/R	N/R
30	EC-21 1000-1100	26500.	170.	20.	470.
31	EC-21 1100-1200	8850.	90.	16.	385.
32	EC-21 1200-1300	15000.	130.	44.	700.
33	EC-21 1300-1400	N/R	200.	N/R	N/R
34	EC-21 1400-1500	N/R	225.	N/R	N/R
35	EC-21 1500-1600	N/R	105.	N/R	N/R
36	EC-21 1600-1700	N/R	180.	N/R	N/R
37	EC-21 1700-1800	N/R	205.	N/R	N/R
38	EC-21 1800-1900	28000.	205.	11.	330.
39	EC-21 1900-2000	N/R	175.	N/R	N/R
41	EC-27 0620-0700	26500.	100.	13.	275.
42	EC-27 0700-0800	16500.	110.	14.	255.
43	EC-27 0800-0900	N/R	165.	N/R	N/R
44	EC-27 0900-1000	N/R	175.	N/R	N/R
45	EC-27 1000-1100	N/R	230.	N/R	N/R
46	EC-27 1100-1200	N/R	200.	N/R	N/R
47	EC-27 1200-1300	N/R	275.	N/R	N/R
48	EC-27 1300-1400	N/R	200.	N/R	N/R
49	EC-27 1400-1500	N/R	145.	N/R	N/R
50	EC-27 1500-1600	15000.	160.	26.	490.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Th (ppm)	U (ppm)	Zn (ppm)
51	EC-27 1600-1700	N/R	200.	N/R	N/R
52	EC-27 1700-1800	N/R	205.	N/R	N/R
53	EC-27 1800-1900	N/R	135.	N/R	N/R
54	EC-27 1900-2000	N/R	110.	N/R	N/R
55	EC-27 2000-2100	N/R	175.	N/R	N/R
56	EC-27 2100-2200	N/R	150.	N/R	N/R
57	EC-27 2200-2303 T.D.	12000.	90.	18.	465.
58	EC-30 0600-0700	51500.	255.	12.	250.
59	EC-30 0700-0800	N/R	370.	N/R	N/R
60	EC-30 0800-0900	22000.	290.	10.	370.
61	EC-30 0900-1000	N/R	150.	N/R	N/R
62	EC-30 1000-1100	N/R	265.	N/R	N/R
63	EC-30 1100-1200	N/R	235.	N/R	N/R
64	EC-30 1200-1300	N/R	230.	N/R	N/R
65	EC-30 1300-1400	N/R	180.	N/R	N/R
66	EC-30 1400-1500	27000.	180.	15.	475.
67	EC-30 1500-1600	18000.	120.	11.	395.
68	EC-30 1600-1700	N/R	195.	N/R	N/R
69	EC-30 1700-1800	N/R	260.	N/R	N/R
70	EC-30 1800-1900	N/R	330.	N/R	N/R
71	EC-30 1900-2000	N/R	190.	N/R	N/R
72	EC-30 2000-2100	N/R	290.	N/R	N/R
73	EC-30 2100-2200	N/R	255.	N/R	N/R
74	EC-30 2200-2300	N/R	215.	N/R	N/R
75	EC-30 2300-2400	N/R	125.	N/R	N/R
76	EC-30 2400-2484 T.D.	N/R	155.	N/R	N/R
77	EC-35 0638-0700	9700.	N/R	N/R	135.
78	EC-35 0700-0800	6750.	N/R	N/R	120.
79	EC-35 0800-0853 T.D.	10500.	N/R	N/R	90.
80	EC-36 0704-0800	12500.	N/R	N/R	N/R
81	EC-36 0800-0900	7700.	N/R	N/R	N/R
82	EC-36 0900-1000	6800.	N/R	N/R	N/R
83	EC-36 1000-1100	7700.	45.	14.	225.
84	EC-36 1100-1200	8450.	130.	13.	210.
85	EC-36 1200-1300	20000.	125.	17.	195.

ITEM	SAMPLE NUMBER	Ba (ppm)	Th (ppm)	U (ppm)	Zn (ppm)
86	EC-36 1300-1400	9200.	65.	15.	295.
87	EC-36 1400-1500	7350.	35.	6.	140.
88	EC-36 1500-1555	20000.	170.	17.	260.
89	EC-37 0791-0900	11500.	N/R	N/R	85.
90	EC-37 0900-1000	5200.	N/R	N/R	55.
91	EC-37 1000-1100	2950.	N/R	N/R	105.
92	EC-37 1100-1200	9350.	N/R	N/R	130.
93	EC-37 1200-1300	6500.	N/R	N/R	110.
94	EC-37 1300-1400	5850.	N/R	N/R	75.
95	EC-37 1400-1501 T.D.	4850.	210.	10.	155.
105	EC-41 1600-1700	12000.	65.	20.	65.
106	EC-41 1700-1800	7150.	65.	14.	50.
107	EC-41 1800-1900	3800.	95.	9.	60.
108	EC-41 1900-2015 T.D.	9400.	330.	13.	45.
109	EC-43 0510-0600	13000.	45.	13.	165.
115	EC-43 1100-1200	11000.	<20.	10.	205.
116	EC-43 1200-1300	14000.	40.	5.	130.
117	EC-43 1300-1400	11500.	25.	11.	180.
118	EC-43 1400-1501 T.D.	4800.	<20.	9.	120.
119	EC-48 0650-0700	N/R	N/R	12.	245.
120	EC-48 0700-0800	N/R	N/R	11.	245.
121	EC-48 0800-0900	N/R	N/R	13.	315.
122	EC-48 0900-1000	N/R	N/R	15.	295.
123	EC-48 1000-1100	N/R	N/R	17.	145.
124	EC-48 1100-1200	N/R	N/R	15.	210.
125	EC-48 1200-1300	N/R	N/R	16.	240.
126	EC-48 1300-1400	N/R	N/R	24.	220.
127	EC-48 1400-1500	N/R	N/R	13.	150.
128	EC-48 1500-1600	N/R	N/R	30.	175.
129	EC-48 1600-1700	N/R	N/R	20.	150.
130	EC-48 1700-1800	8150.	80.	18.	155.
131	EC-48 1800-1900	16500.	115.	17.	150.
132	EC-48 1900-2000	6800.	70.	14.	115.
133	EC-48 2000-2100	2300.	80.	11.	125.
134	EC-48 2100-2200	16500.	85.	14.	145.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Th (ppm)	U (ppm)	Zn (ppm)
135	EC-48 2200-2300	11000.	25.	28.	120.
136	EC-48 2300-2400	16500.	45.	22.	195.
137	EC-48 2400-2440 T.D.	13000.	120.	15.	150.
140	EC-53 0800-0900	65500.	20.	4.	125.
141	EC-53 0900-1000	32500.	35.	4.	380.
142	EC-53 1000-1100	48500.	20.	7.	120.
143	EC-53 1100-1199 T.D.	60500.	20.	8.	255.
144	EC-55 0730-0800	99000.	210.	7.	40.
145	EC-55 0800-0900	N/R	N/R	7.	55.
146	EC-55 0900-1000	N/R	N/R	7.	75.
147	EC-55 1000-1100	N/R	N/R	15.	65.
148	EC-55 1100-1200	N/R	N/R	12.	95.
149	EC-55 1200-1300	N/R	N/R	16.	135.
150	EC-55 1300-1425 T.D.	N/R	N/R	12.	95.

ITEM	SAMPLE NUMBER	P205 (%)
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40	EC-21 2000-2114 T.D.	3.8
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ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	V (ppm)
1	EC-18 0628-0700	N/R	.24	75.
2	EC-18 0700-0800	N/R	.36	105.
3	EC-18 0800-0900	N/R	.41	100.
4	EC-18 0900-1000	.11	.50	160.
5	EC-18 1000-1100	.10	.61	135.
6	EC-18 1100-1200	.33	.91	180.
7	EC-18 1200-1300	.34	1.40	220.
8	EC-18 1300-1400	.08	N/R	N/R
9	EC-18 1400-1517 T.D.	.07	N/R	N/R
10	EC-19 0610-0700	.09	.34	340.
11	EC-19 0700-0800	.08	.40	225.
12	EC-19 0800-0900	.08	.23	160.
13	EC-19 0900-1000	.17	N/R	N/R
14	EC-19 1000-1100	.16	.96	220.
15	EC-19 1100-1200	.10	.61	210.
16	EC-19 1200-1300	.10	.81	230.
17	EC-19 1300-1400	.11	.54	210.
18	EC-19 1400-1500	.13	N/R	N/R
19	EC-19 1500-1600	.24	.75	225.
20	EC-19 1600-1700	.21	1.10	330.
21	EC-19 1700-1800	.38	N/R	N/R
22	EC-19 1800-1900	.20	1.30	285.
23	EC-19 1900-2000	.81	1.80	270.
24	EC-19 2000-2100	.20	.78	200.
25	EC-19 2100-2179 T.D.	.07	.38	145.
26	EC-21 0681-0700	.08	.20	240.
27	EC-21 0700-0800	.08	1.40	280.
28	EC-21 0800-0900	.11	N/R	N/R
29	EC-21 0900-1000	.15	N/R	N/R
30	EC-21 1000-1100	.34	.83	235.
31	EC-21 1100-1200	.27	1.90	360.
32	EC-21 1200-1300	.46	1.50	385.
33	EC-21 1300-1400	.30	N/R	N/R
34	EC-21 1400-1500	.57	N/R	N/R
35	EC-21 1500-1600	.25	N/R	N/R

ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	V (ppm)
36	EC-21 1600-1700	.61	N/R	N/R
37	EC-21 1700-1800	.39	N/R	N/R
38	EC-21 1800-1900	.33	.99	240.
39	EC-21 1900-2000	.13	N/R	N/R
40	EC-21 2000-2114 T.D.	.12	N/R	N/R
41	EC-27 0620-0700	.13	1.50	380.
42	EC-27 0700-0800	.12	1.00	275.
43	EC-27 0800-0900	.12	N/R	N/R
44	EC-27 0900-1000	.29	N/R	N/R
45	EC-27 1000-1100	.25	N/R	N/R
46	EC-27 1100-1200	.31	N/R	N/R
47	EC-27 1200-1300	.64	N/R	N/R
48	EC-27 1300-1400	.74	N/R	N/R
49	EC-27 1400-1500	1.10	N/R	N/R
50	EC-27 1500-1600	.16	1.40	265.
51	EC-27 1600-1700	.14	N/R	N/R
52	EC-27 1700-1800	.14	N/R	N/R
53	EC-27 1800-1900	.10	N/R	N/R
54	EC-27 1900-2000	.08	N/R	N/R
55	EC-27 2000-2100	.14	N/R	N/R
56	EC-27 2100-2200	.17	N/R	N/R
57	EC-27 2200-2303 T.D.	.13	1.40	230.
58	EC-30 0600-0700	.19	1.70	335.
59	EC-30 0700-0800	.15	N/R	N/R
60	EC-30 0800-0900	.15	1.80	255.
61	EC-30 0900-1000	.14	N/R	N/R
62	EC-30 1000-1100	.20	N/R	N/R
63	EC-30 1100-1200	.48	N/R	N/R
64	EC-30 1200-1300	.26	N/R	N/R
65	EC-30 1300-1400	.38	N/R	N/R
66	EC-30 1400-1500	.24	1.60	285.
67	EC-30 1500-1600	.15	1.70	360.
68	EC-30 1600-1700	.16	N/R	N/R
69	EC-30 1700-1800	.24	N/R	N/R
70	EC-30 1800-1900	.23	N/R	N/R

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SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	V (ppm)
71	EC-30 1900-2000	.17	N/R	N/R
72	EC-30 2000-2100	.16	N/R	N/R
73	EC-30 2100-2200	.14	N/R	N/R
74	EC-30 2200-2300	.13	N/R	N/R
75	EC-30 2300-2400	.10	N/R	N/R
76	EC-30 2400-2484 T.D.	.14	N/R	N/R
77	EC-35 0638-0700	N/R	.29	95.
78	EC-35 0700-0800	N/R	.23	55.
79	EC-35 0800-0853 T.D.	N/R	.15	50.
80	EC-36 0704-0800	N/R	.18	75.
81	EC-36 0800-0900	N/R	.33	95.
82	EC-36 0900-1000	N/R	.14	60.
83	EC-36 1000-1100	.09	.82	180.
84	EC-36 1100-1200	.09	.58	125.
85	EC-36 1200-1300	.11	.61	155.
86	EC-36 1300-1400	.28	1.30	255.
87	EC-36 1400-1500	.58	1.90	275.
88	EC-36 1500-1555	.10	.78	210.
89	EC-37 0791-0900	N/R	.26	75.
90	EC-37 0900-1000	N/R	.16	60.
91	EC-37 1000-1100	N/R	.28	115.
92	EC-37 1100-1200	N/R	.37	130.
93	EC-37 1200-1300	N/R	.40	90.
94	EC-37 1300-1400	N/R	.19	55.
95	EC-37 1400-1501 T.D.	.17	.88	165.
96	EC-41 0750-0800	.08	.19	45.
97	EC-41 0800-0900	.08	.08	30.
98	EC-41 0900-1000	.07	.10	25.
99	EC-41 1000-1100	.08	.25	70.
100	EC-41 1100-1200	.07	.15	50.
101	EC-41 1200-1300	.09	.27	95.
102	EC-41 1300-1400	.12	.56	135.
103	EC-41 1400-1500	.10	.29	105.
104	EC-41 1500-1600	.07	.16	60.
105	EC-41 1600-1700	.08	.50	100.

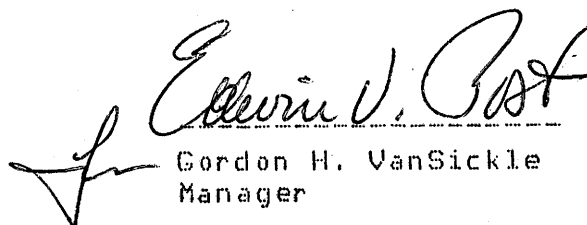
ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	V (ppm)
106	EC-41 1700-1800	.08	.11	40.
107	EC-41 1800-1900	.06	.18	45.
108	EC-41 1900-2015 T.D.	.08	.12	55.
109	EC-43 0510-0600	.60	.53	175.
110	EC-43 0600-0700	.14	.29	110.
111	EC-43 0700-0800	.09	.26	135.
112	EC-43 0800-0900	.17	.16	90.
113	EC-43 0900-1000	.08	.21	125.
114	EC-43 1000-1100	.10	.17	90.
115	EC-43 1100-1200	.13	.36	105.
116	EC-43 1200-1300	.09	.11	90.
117	EC-43 1300-1400	.10	.16	80.
118	EC-43 1400-1501 T.D.	.15	.16	60.
119	EC-48 0650-0700	.09	.22	115.
120	EC-48 0700-0800	.10	.19	105.
121	EC-48 0800-0900	.10	.25	145.
122	EC-48 0900-1000	.11	.20	150.
123	EC-48 1000-1100	.10	.30	140.
124	EC-48 1100-1200	.09	.20	135.
125	EC-48 1200-1300	.08	.34	160.
126	EC-48 1300-1400	.08	.43	175.
127	EC-48 1400-1500	.09	.21	125.
128	EC-48 1500-1600	.09	.50	190.
129	EC-48 1600-1700	.08	.64	235.
130	EC-48 1700-1800	.11	1.10	310.
131	EC-48 1800-1900	.09	.42	170.
132	EC-48 1900-2000	.10	.34	170.
133	EC-48 2000-2100	.09	.29	160.
134	EC-48 2100-2200	.09	.46	150.
135	EC-48 2200-2300	.10	.39	125.
136	EC-48 2300-2400	.12	.77	185.
137	EC-48 2400-2440 T.D.	.13	1.10	325.
138	EC-53 0600-0700	.23	.45	190.
139	EC-53 0700-0800	.25	.54	210.
140	EC-53 0800-0900	.28	.48	180.

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ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	V (ppm)
141	EC-53 0900-1000	.11	.15	90.
142	EC-53 1000-1100	.12	.25	115.
143	EC-53 1100-1199 T.D.	.21	.66	165.
144	EC-55 0730-0800	.10	.30	105.
145	EC-55 0800-0900	.10	.43	120.
146	EC-55 0900-1000	.09	.62	170.
147	EC-55 1000-1100	.09	.38	100.
148	EC-55 1100-1200	.10	.44	150.
149	EC-55 1200-1300	.11	.49	160.
150	EC-55 1300-1425 T.D.	.11	.65	145.


Gordon H. VanSickle
Manager

NOTE: N/R = Analysis not requested.

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 094

June 25, 1982

Molycorp, Inc.
Attn: Richard L. Sherer
Box 3976
Englewood, Colorado 80112

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm) <i>check this %</i>
1	EC-20/610-700	.43	1.3	.95	.28
2	EC-20/700-800	.33	1.2	1.10	.33
3	EC-20/800-900	.38	1.5	.86	.33
4	EC-20/900-1000	.39	1.2	1.10	.34
5	EC-20/1000-1100	.32	1.4	.76	.33
6	EC-20/1100-1200	.13	2.5	1.70	.30
7	EC-20/1200-1300	.33	2.2	1.70	.31
8	EC-20/1300-1400	.22	1.9	1.40	.30
9	EC-20/1400-1500	.12	1.7	1.00	.29
10	EC-20/1500-1600	.11	2.8	1.30	.20
11	EC-20/1600-1700	.09	2.4	1.20	.18
12	EC-20/1700-1800	.12	2.1	1.10	.28
13	EC-20/1800-1900	.12	2.5	1.50	.26
14	EC-20/1900-2000	.09	1.9	1.60	.23
15	EC-20/2000-2100	.08	2.1	1.50	.16
16	EC-20/2100-2200	.08	2.1	1.10	.28
17	EC-20/2200-2300	.17	3.1	1.20	.28
18	EC-20/2300-2424 1/2 T.D.	.08	2.4	1.00	.28

ITEM	SAMPLE NUMBER	Li (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)
1	EC-20/610-700	50.	<.2	20.	20.
2	EC-20/700-800	80.	<.2	25.	25.
3	EC-20/800-900	40.	<.2	25.	15.
4	EC-20/900-1000	100.	<.2	15.	20.
5	EC-20/1000-1100	50.	<.2	30.	10.
6	EC-20/1100-1200	30.	<.2	25.	25.
7	EC-20/1200-1300	50.	<.2	45.	30.
8	EC-20/1300-1400	30.	<.2	35.	15.
9	EC-20/1400-1500	40.	<.2	25.	10.
10	EC-20/1500-1600	55.	<.2	10.	20.
11	EC-20/1600-1700	45.	<.2	10.	20.
12	EC-20/1700-1800	25.	<.2	15.	25.
13	EC-20/1800-1900	25.	<.2	20.	30.
14	EC-20/1900-2000	30.	<.2	15.	15.
15	EC-20/2000-2100	80.	<.2	10.	15.
16	EC-20/2100-2200	35.	<.2	15.	25.
17	EC-20/2200-2300	110.	<.2	25.	45.
18	EC-20/2300-2424 1/2 T.D.	50.	<.2	20.	25.

ITEM	SAMPLE NUMBER	Zn (ppm)	Co (ppm)	Ni (ppm)	Cr (ppm)
1	EC-20/610-700	465.	20.	50.	65.
2	EC-20/700-800	710.	20.	50.	75.
3	EC-20/800-900	550.	25.	45.	60.
4	EC-20/900-1000	920.	20.	55.	80.
5	EC-20/1000-1100	510.	20.	55.	85.
6	EC-20/1100-1200	175.	35.	160.	290.
7	EC-20/1200-1300	480.	35.	125.	125.
8	EC-20/1300-1400	400.	35.	125.	180.
9	EC-20/1400-1500	295.	20.	65.	150.
10	EC-20/1500-1600	430.	15.	95.	150.
11	EC-20/1600-1700	530.	15.	90.	160.
12	EC-20/1700-1800	370.	15.	75.	170.
13	EC-20/1800-1900	395.	20.	65.	185.
14	EC-20/1900-2000	640.	20.	80.	155.
15	EC-20/2000-2100	470.	20.	105.	190.
16	EC-20/2100-2200	570.	20.	85.	180.
17	EC-20/2200-2300	425.	30.	135.	250.
18	EC-20/2300-2424 1/2 T.D.	620.	25.	100.	170.

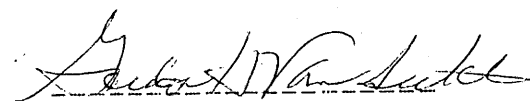
ITEM	SAMPLE NUMBER	Mo (ppm)	F (%)	Ba (%)	Be (ppm)
1	EC-20/610-700	<2.	.28	2.30	17.
2	EC-20/700-800	<2.	.30	2.40	17.
3	EC-20/800-900	2.	.28	2.00	17.
4	EC-20/900-1000	<2.	.28	2.40	19.
5	EC-20/1000-1100	<2.	.25	1.90	18.
6	EC-20/1100-1200	<2.	.17	.42	19.
7	EC-20/1200-1300	<2.	.35	.69	13.
8	EC-20/1300-1400	<2.	.24	1.30	24.
9	EC-20/1400-1500	<2.	.20	2.20	17.
10	EC-20/1500-1600	<2.	.34	2.40	36.
11	EC-20/1600-1700	<2.	.17	2.70	36.
12	EC-20/1700-1800	<2.	.17	3.20	20.
13	EC-20/1800-1900	<2.	.22	2.10	15.
14	EC-20/1900-2000	<2.	.13	3.00	12.
15	EC-20/2000-2100	<2.	.21	2.60	19.
16	EC-20/2100-2200	<2.	.16	1.90	18.
17	EC-20/2200-2300	<2.	.41	1.00	20.
18	EC-20/2300-2424 1/2 T.D.	<2.	.20	2.40	20.

June 25, 1982

PAGE 5

ITEM	SAMPLE NUMBER	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
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1	EC-20/610-700	4650.	38.	215.	70.
2	EC-20/700-800	5700.	60.	240.	100.
3	EC-20/800-900	5100.	50.	240.	70.
4	EC-20/900-1000	5450.	50.	265.	70.
5	EC-20/1000-1100	5300.	42.	270.	70.
6	EC-20/1100-1200	2950.	4.	225.	200.
7	EC-20/1200-1300	3700.	12.	290.	500.
8	EC-20/1300-1400	4500.	24.	270.	150.
9	EC-20/1400-1500	5350.	16.	230.	100.
10	EC-20/1500-1600	4050.	13.	275.	100.
11	EC-20/1600-1700	4700.	10.	260.	70.
12	EC-20/1700-1800	4550.	11.	250.	70.
13	EC-20/1800-1900	4950.	14.	275.	70.
14	EC-20/1900-2000	4550.	20.	325.	50.
15	EC-20/2000-2100	4800.	15.	260.	50.
16	EC-20/2100-2200	4650.	15.	260.	50.
17	EC-20/2200-2300	4100.	11.	250.	150.
18	EC-20/2300-2424 1/2 T.D.	4450.	17.	240.	50.

Gordon H. VanSickle
Manager

RECEIVED

DEC 12 1983

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

MOLYCORP, INC.
ENGLEWOOD, CO.

REPORT OF ANALYSIS

JOB NO. DOH 240
December 8, 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 30 Pulp Samples

ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	Be (ppm)	Nb205 (%)
1	EC-21 800-900	4.1	405.	42.	.37
2	EC-21 900-1000	2.5	365.	34.	.36
3	EC-21 1050-1100	2.0	275.	36.	.29
4	EC-21 1100-1150	1.3	355.	28.	.24
5	EC-21 1250-1300	1.8	415.	50.	.46
6	EC-21 1300-1400	2.5	310.	30.	.33
7	EC-21 1400-1500	1.5	315.	38.	.37
8	EC-21 1500-1600	1.2	305.	24.	.29
9	EC-21 1600-1700	1.6	245.	44.	.34
10	EC-21 1700-1800	2.7	265.	26.	.32
11	EC-21 1850-1900	2.1	280.	13.	.19
12	EC-21 1900-2000	2.3	300.	11.	.11
13	EC-21 2000-2114 T.D.	2.5	215.	34.	.13
14	EC-30 700-800	3.5	365.	19.	.90
15	EC-30 850-900	2.3	250.	17.	.53
16	EC-30 900-1000	2.9	200.	16.	.47
17	EC-30 1000-1100	5.4	305.	20.	1.00
18	EC-30 1100-1200	4.3	265.	32.	.89
19	EC-30 1200-1300	2.4	295.	17.	.36
20	EC-30 1300-1400	2.8	245.	19.	.43

ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	Be (ppm)	Nb205 (%)
21	EC-30 1400-1450	3.0	265.	16.	.41
22	EC-30 1600-1700	3.2	295.	13.	.51
23	EC-30 1700-1800	4.5	240.	14.	.72
24	EC-30 1800-1900	4.2	235.	16.	.77
25	EC-30 1900-2000	2.0	225.	12.	.54
26	EC-30 2000-2100	2.3	200.	12.	.53
27	EC-30 2100-2200	3.1	260.	11.	.62
28	EC-30 2200-2300	3.4	215.	6.	.68
29	EC-30 2300-2400	3.9	265.	9.	.27
30	EC-30 2400-2484 T.D.	1.7	320.	12.	.24

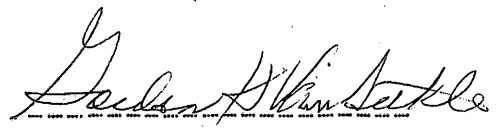
ITEM	SAMPLE NUMBER	Pb (ppm)	Zn (ppm)	Ti (%)	U (ppm)
1	EC-21 800-900	10.	270.	1.50	22.
2	EC-21 900-1000	15.	345.	1.30	26.
3	EC-21 1050-1100	35.	510.	1.10	26.
4	EC-21 1100-1150	50.	490.	1.40	24.
5	EC-21 1250-1300	45.	810.	1.40	55.
6	EC-21 1300-1400	80.	720.	1.00	24.
7	EC-21 1400-1500	55.	650.	1.10	30.
8	EC-21 1500-1600	75.	580.	1.00	24.
9	EC-21 1600-1700	80.	720.	.95	22.
10	EC-21 1700-1800	20.	540.	1.10	24.
11	EC-21 1850-1900	10.	280.	1.30	10.
12	EC-21 1900-2000	<5.	115.	1.30	14.
13	EC-21 2000-2114 T.D.	<5.	80.	.66	15.
14	EC-30 700-800	10.	290.	2.30	13.
15	EC-30 850-900	<5.	205.	2.00	9.
16	EC-30 900-1000	<5.	210.	1.10	16.
17	EC-30 1000-1100	10.	255.	2.30	26.
18	EC-30 1100-1200	10.	670.	1.90	30.
19	EC-30 1200-1300	10.	560.	1.40	15.
20	EC-30 1300-1400	10.	530.	1.70	18.
21	EC-30 1400-1450	<5.	560.	1.60	17.
22	EC-30 1600-1700	<5.	345.	1.70	19.
23	EC-30 1700-1800	<5.	520.	1.80	17.
24	EC-30 1800-1900	15.	1300.	1.80	20.
25	EC-30 1900-2000	<5.	500.	1.40	10.
26	EC-30 2000-2100	<5.	335.	1.40	15.
27	EC-30 2100-2200	<5.	270.	1.80	26.
28	EC-30 2200-2300	<5.	115.	1.60	17.
29	EC-30 2300-2400	<5.	130.	.90	28.
30	EC-30 2400-2484 T.D.	<5.	225.	1.60	40.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
13	EC-21 2000-2114 T.D.	1.9	15.	5000.	2050.

ITEM	SAMPLE NUMBER	Th (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)
13	EC-21 2000-2114 T.D.	<20.	790.	1700.	650.


Gordon H. VanSickle
Manager

cc: Richard Sherer, Englewood.
Ray Reynolds, Englewood

R. Shiner
Plotted

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 127
December 13, 1982

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-26 630-700	.11	.46	.35	1600.	15.
2	EC-26 0700-0800	.08	.34	.37	2150.	10.
3	EC-26 0800-0900	.08	.85	.70	2250.	85.
4	EC-26 0900-1000	.08	.68	.76	2350.	85.
5	EC-26 1000-1100	.07	.40	.36	1800.	15.
6	EC-26 1100-1200	.08	1.10	.60	2050.	75.
7	EC-26 1200-1300	.10	1.60	.93	2400.	75.
8	EC-26 1300-1400	.10	1.20	.89	2400.	45.
9	EC-26 1400-1500	.10	1.10	1.60	2500.	35.
10	EC-26 1500-1600	.09	1.30	1.70	2200.	35.
11	EC-26 1600-1700	.10	1.20	1.90	2300.	45.
12	EC-26 1700-1800	.10	.84	1.40	2450.	20.
13	EC-26 1800-1900	.13	1.20	2.90	2450.	90.
14	EC-26 1900-2000	.11	1.70	2.80	2150.	60.
15	EC-26 2000-2100	.11	1.80	2.50	2050.	55.
16	EC-26 2100-2200	.11	1.70	2.50	2400.	65.
17	EC-26 2200-2300	.13	1.90	2.60	1850.	20.
18	EC-26 2300-2405TD	.10	1.80	1.50	1450.	25.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-26 630-700	<.2	<5.	15.	110.	10.
2	EC-26 0700-0800	<.2	<5.	15.	190.	10.
3	EC-26 0800-0900	<.2	10.	15.	160.	15.
4	EC-26 0900-1000	<.2	<5.	30.	175.	10.
5	EC-26 1000-1100	<.2	<5.	10.	210.	10.
6	EC-26 1100-1200	<.2	15.	20.	400.	15.
7	EC-26 1200-1300	<.2	40.	20.	255.	25.
8	EC-26 1300-1400	<.2	20.	10.	290.	20.
9	EC-26 1400-1500	<.2	25.	20.	455.	20.
10	EC-26 1500-1600	<.2	35.	20.	620.	20.
11	EC-26 1600-1700	<.2	65.	15.	410.	20.
12	EC-26 1700-1800	<.2	30.	<5.	490.	25.
13	EC-26 1800-1900	<.2	45.	15.	485.	30.
14	EC-26 1900-2000	<.2	25.	40.	510.	15.
15	EC-26 2000-2100	<.2	30.	20.	355.	25.
16	EC-26 2100-2200	<.2	35.	35.	430.	35.
17	EC-26 2200-2300	<.2	30.	10.	240.	30.
18	EC-26 2300-2405TD	<.2	30.	10.	180.	25.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-26 630-700	40.	65.	4.	.43	7500.
2	EC-26 0700-0800	20.	65.	4.	.65	8250.
3	EC-26 0800-0900	40.	95.	20.	.45	5700.
4	EC-26 0900-1000	25.	75.	6.	.49	5150.
5	EC-26 1000-1100	20.	70.	4.	.31	11000.
6	EC-26 1100-1200	50.	120.	4.	.31	12500.
7	EC-26 1200-1300	70.	165.	20.	.36	10000.
8	EC-26 1300-1400	55.	140.	10.	.32	15500.
9	EC-26 1400-1500	50.	120.	8.	.27	26000.
10	EC-26 1500-1600	55.	145.	4.	.15	35500.
11	EC-26 1600-1700	40.	120.	6.	.19	36500.
12	EC-26 1700-1800	35.	90.	6.	.14	32000.
13	EC-26 1800-1900	65.	125.	4.	.55	41000.
14	EC-26 1900-2000	65.	155.	<2.	.27	59000.
15	EC-26 2000-2100	75.	160.	<2.	.37	60500.
16	EC-26 2100-2200	80.	160.	<2.	.48	61000.
17	EC-26 2200-2300	45.	150.	<2.	.29	33500.
18	EC-26 2300-2405TD	35.	140.	10.	.46	12000.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-26 630-700	9.	5800.	20.	95.	50.
2	EC-26 0700-0800	7.	5700.	11.	85.	30.
3	EC-26 0800-0900	12.	4600.	16.	155.	70.
4	EC-26 0900-1000	10.	4750.	11.	130.	70.
5	EC-26 1000-1100	10.	5400.	11.	90.	50.
6	EC-26 1100-1200	11.	4900.	14.	155.	70.
7	EC-26 1200-1300	9.	4300.	18.	190.	70.
8	EC-26 1300-1400	13.	4850.	16.	175.	70.
9	EC-26 1400-1500	13.	5150.	36.	210.	50.
10	EC-26 1500-1600	11.	5150.	44.	235.	30.
11	EC-26 1600-1700	10.	5300.	80.	215.	50.
12	EC-26 1700-1800	11.	5450.	95.	170.	20.
13	EC-26 1800-1900	16.	4600.	55.	265.	30.
14	EC-26 1900-2000	40.	5150.	60.	335.	50.
15	EC-26 2000-2100	20.	5650.	55.	265.	30.
16	EC-26 2100-2200	15.	4250.	85.	280.	20.
17	EC-26 2200-2300	11.	4750.	55.	335.	50.
18	EC-26 2300-2405TD	10.	4250.	18.	210.	100.

for Edwin D. Post
Gordon H. VanSickle
Manager

cc: ✓ D. Sherer

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

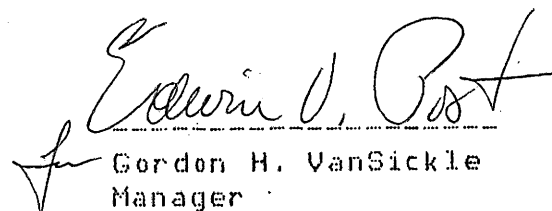
JOB NO. DOH 244
December 13, 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 25 Pulps

ITEM	SAMPLE NUMBER	Na (%)	P2O5 (%)	Nb2O5 (ppm)
	⁷⁷⁹⁴			
1	EC-37 791-850	.13	5.6	1600.
2	EC-37 850-900	.08	3.3	790.
3	EC-37 900-950	.08	4.2	900.
4	EC-37 950-1000	.08	4.2	1650.
5	EC-37 1000-1050	.11	4.4	2150.
6	EC-37 1050-1100	.09	5.4	2150.
7	EC-37 1100-1150	.09	5.4	3750.
8	EC-37 1150-1200	.10	4.9	1900.
9	EC-37 1200-1250	.08	2.7	1500.
10	EC-37 1250-1300	.07	2.8	1850.
11	EC-37 1300-1350	.07	3.2	2250.
12	EC-37 1350-1400	.07	3.3	2050.
13	EC-37 1400-1450	.10	3.6	1550.
14	EC-26 700-750	.09	5.3	2100.
15	EC-26 750-800	.09	2.7	1700.
16	EC-26 800-850	.09	4.6	3850.
17	EC-26 850-900	.09	2.8	1250.
18	EC-26 900-950	.09	2.2	1600.
19	EC-26 950-1000	.08	4.1	2250.
20	EC-26 1000-1050	.06	3.3	1550.
21	EC-26 1050-1100	.09	2.4	2100.
22	EC-35 638-700	.11	4.7	2700.
23	EC-35 700-750	.08	4.4	1750.
24	EC-35 750-800	.08	5.2	2250.
25	EC-35 800-853 T.D.	.08	4.3	1250.

ITEM	SAMPLE NUMBER	Th (ppm)	Zr (ppm)	U (ppm)
1	EC-37 791-850	80.	295.	24.
2	EC-37 850-900	45.	255.	19.
3	EC-37 900-950	60.	295.	26.
4	EC-37 950-1000	55.	290.	36.
5	EC-37 1000-1050	95.	405.	38.
6	EC-37 1050-1100	105.	300.	14.
7	EC-37 1100-1150	130.	315.	34.
8	EC-37 1150-1200	125.	400.	22.
9	EC-37 1200-1250	50.	345.	9.
10	EC-37 1250-1300	55.	285.	7.
11	EC-37 1300-1350	60.	265.	9.
12	EC-37 1350-1400	75.	290.	11.
13	EC-37 1400-1450	95.	165.	11.
14	EC-26 700-750	70.	320.	16.
15	EC-26 750-800	45.	280.	13.
16	EC-26 800-850	50.	115.	22.
17	EC-26 850-900	40.	385.	14.
18	EC-26 900-950	70.	300.	12.
19	EC-26 950-1000	75.	255.	12.
20	EC-26 1000-1050	40.	250.	13.
21	EC-26 1050-1100	50.	235.	12.
22	EC-35 638-700	95.	300.	18.
23	EC-35 700-750	50.	275.	19.
24	EC-35 750-800	65.	265.	15.
25	EC-35 800-853 T.D.	40.	260.	13.


Gordon H. VanSickle
Manager

cc's: Ray Reynolds, Englewood
✓ Richard Sherer, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 097
July 1, 1982

Molycorp, Inc.
Attn: Richard L. Sherer, Ph.D.
Box 3976
Englewood, Colorado 80112

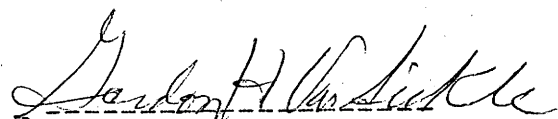
Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	K (%)	Ti (%)	Sr (ppm)	Li (ppm)
1	EC-29 654-700	.14	2.00	2.30	3200.	110.
2	EC-29 700-800	.13	2.20	1.20	3350.	65.
3	EC-29 800-900	.08	1.10	.72	3900.	15.
4	EC-29 900-1000	.11	.55	.81	3550.	20.
5	EC-29 1000-1100	.09	.51	1.50	2850.	<10.
6	EC-29 1100-1200	.11	.80	1.90	3250.	<10.
7	EC-29 1200-1300	.16	1.60	1.80	2700.	50.
8	EC-29 1300-1400	.12	1.10	2.40	3100.	10.
9	EC-29 1400-1500	.11	1.10	2.90	2050.	15.
10	EC-29 1500-1600	.11	.92	2.20	2850.	10.
11	EC-29 1600-1700	.11	.71	1.30	2400.	10.
12	EC-29 1700-1800	.11	1.70	1.10	2700.	15.
13	EC-29 1800-1900	.14	.80	1.10	3300.	25.
14	EC-29 1900-2000	.11	.93	1.70	3300.	10.
15	EC-29 2000-2100	.08	.60	.66	3100.	<10.
16	EC-29 2100-2200	.09	.19	.40	2900.	<10.
17	EC-29 2200-2300	.08	.31	.38	3400.	<10.
18	EC-29 2300-2382 T.D.	.08	.61	.54	4200.	20.

ITEM	SAMPLE NUMBER	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Co (ppm)
1	EC-29 654-700	<.2	30.	80.	395.	20.
2	EC-29 700-800	<.2	25.	40.	360.	10.
3	EC-29 800-900	<.2	75.	30.	340.	20.
4	EC-29 900-1000	<.2	100.	25.	365.	<5.
5	EC-29 1000-1100	<.2	115.	20.	475.	15.
6	EC-29 1100-1200	<.2	65.	35.	520.	20.
7	EC-29 1200-1300	<.2	20.	30.	570.	15.
8	EC-29 1300-1400	<.2	20.	35.	860.	15.
9	EC-29 1400-1500	<.2	15.	40.	1100.	15.
10	EC-29 1500-1600	<.2	30.	40.	770.	20.
11	EC-29 1600-1700	<.2	10.	40.	550.	15.
12	EC-29 1700-1800	<.2	10.	<5.	400.	10.
13	EC-29 1800-1900	<.2	10.	25.	345.	15.
14	EC-29 1900-2000	<.2	40.	15.	570.	20.
15	EC-29 2000-2100	<.2	25.	20.	315.	10.
16	EC-29 2100-2200	<.2	<5.	20.	190.	<5.
17	EC-29 2200-2300	<.2	20.	30.	290.	10.
18	EC-29 2300-2382 T.D.	<.2	15.	55.	165.	10.

ITEM	SAMPLE NUMBER	Ni (ppm)	Cr (ppm)	Mo (ppm)	F (%)	Ba (ppm)
1	EC-29 654-700	90.	130.	<2.	.300	<10.
2	EC-29 700-800	55.	135.	<2.	.720	<10.
3	EC-29 800-900	50.	70.	8.	.800	<10.
4	EC-29 900-1000	35.	80.	<2.	1.300	<10.
5	EC-29 1000-1100	40.	55.	<2.	.300	<10.
6	EC-29 1100-1200	35.	60.	<2.	.230	<10.
7	EC-29 1200-1300	40.	70.	<2.	.460	<10.
8	EC-29 1300-1400	50.	70.	<2.	.110	<10.
9	EC-29 1400-1500	50.	70.	<2.	.094	<10.
10	EC-29 1500-1600	50.	65.	<2.	.140	<10.
11	EC-29 1600-1700	35.	65.	<2.	.270	<10.
12	EC-29 1700-1800	50.	125.	<2.	.360	<10.
13	EC-29 1800-1900	35.	70.	<2.	.320	<10.
14	EC-29 1900-2000	35.	60.	<2.	.160	<10.
15	EC-29 2000-2100	25.	50.	2.	.250	<10.
16	EC-29 2100-2200	15.	25.	<2.	.440	<10.
17	EC-29 2200-2300	15.	25.	12.	.350	<10.
18	EC-29 2300-2382 T.D.	20.	40.	20.	.380	<10.

ITEM	SAMPLE NUMBER	Be (ppm)	Mn (ppm)	U (ppm)	V (ppm)	Zr (ppm)
1	EC-29 654-700	22.	5100.	80.	345.	50.
2	EC-29 700-800	19.	4350.	13.	260.	70.
3	EC-29 800-900	6.	4750.	16.	150.	30.
4	EC-29 900-1000	75.	2950.	24.	205.	50.
5	EC-29 1000-1100	14.	5750.	40.	160.	30.
6	EC-29 1100-1200	13.	4950.	90.	205.	70.
7	EC-29 1200-1300	20.	4950.	30.	220.	70.
8	EC-29 1300-1400	17.	4850.	70.	220.	20.
9	EC-29 1400-1500	22.	5000.	120.	235.	<20.
10	EC-29 1500-1600	17.	5050.	70.	220.	20.
11	EC-29 1600-1700	19.	5750.	24.	185.	100.
12	EC-29 1700-1800	26.	4850.	20.	185.	150.
13	EC-29 1800-1900	10.	5250.	95.	165.	70.
14	EC-29 1900-2000	7.	5200.	170.	195.	30.
15	EC-29 2000-2100	7.	5100.	19.	135.	50.
16	EC-29 2100-2200	11.	5400.	15.	80.	70.
17	EC-29 2200-2300	4.	4900.	24.	90.	30.
18	EC-29 2300-2382 T.D.	5.	4750.	12.	110.	70.



Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

CORRECTED COPY
JOB NO. DOH 097
July 7, 1982

Molycorp, Inc.
Attn: Richard L. Sherer, Ph.D.
Box 3976
Englewood, Colorado 80112

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	Ba (%)
1	EC-29 654-700	5.4
2	EC-29 700-800	2.8
3	EC-29 800-900	1.6
4	EC-29 900-1000	2.8
5	EC-29 1000-1100	2.3
6	EC-29 1100-1200	3.4
7	EC-29 1200-1300	2.8
8	EC-29 1300-1400	4.2
9	EC-29 1400-1500	4.4
10	EC-29 1500-1600	4.6
11	EC-29 1600-1700	3.1
12	EC-29 1700-1800	3.2
13	EC-29 1800-1900	1.2
14	EC-29 1900-2000	2.0
15	EC-29 2000-2100	.73
16	EC-29 2100-2200	.58
17	EC-29 2200-2300	.76
18	EC-29 2300-2382 T.D.	.47


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 247
December 27, 1983

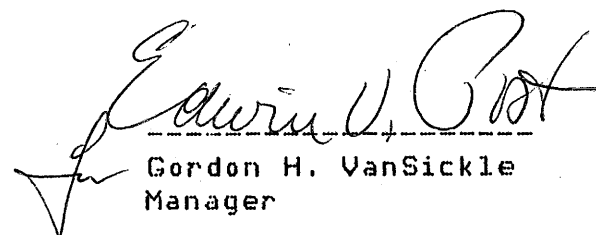
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 20 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-21 681-700	55000.	.37	20.	10500.
2	EC-21 700-750	47000.	.73	25.	8800.
3	EC-41 0750-0800	22500.	.29	20.	7250.
4	EC-41 0800-0850	8150.	.11	<10.	7100.
5	EC-41 0850-0900	15500.	.07	10.	6800.
6	EC-41 0900-0950	10000.	.07	<10.	7100.
7	EC-41 0950-1000	10500.	.15	10.	6600.
8	EC-41 1000-1050	49000.	.29	15.	5550.
9	EC-41 1050-1100	20000.	.16	15.	6350.
10	EC-41 1100-1150	9050.	.18	20.	6050.
11	EC-41 1150-1200	60000.	.15	20.	5900.
12	EC-41 1200-1250	81500.	.25	10.	5500.
13	EC-41 1250-1300	29000.	1.40	20.	5500.
14	EC-41 1300-1350	28500.	1.40	20.	5600.
15	EC-41 1350-1400	17000.	1.40	30.	5750.
16	EC-41 1400-1450	27500.	1.40	20.	6200.
17	EC-41 1450-1500	37000.	.77	20.	6150.
18	EC-41 1500-1550	17500.	.56	20.	6250.
19	EC-41 1550-1600	16500.	.25	15.	5850.
20	EC-41 1600-1650	17000.	.70	15.	5050.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-21 681-700	910.	<50.	4300.	7800.
2	EC-21 700-750	1100.	<50.	3100.	6150.
3	EC-41 0750-0800	1550.	<50.	800.	1450.
4	EC-41 0800-0850	1150.	<50.	210.	415.
5	EC-41 0850-0900	2000.	<50.	185.	395.
6	EC-41 0900-0950	1500.	<50.	160.	220.
7	EC-41 0950-1000	1050.	<50.	170.	395.
8	EC-41 1000-1050	2250.	<50.	5150.	8350.
9	EC-41 1050-1100	2350.	<50.	600.	1200.
10	EC-41 1100-1150	3900.	55.	385.	750.
11	EC-41 1150-1200	2750.	100.	3450.	5300.
12	EC-41 1200-1250	3900.	<50.	7200.	8850.
13	EC-41 1250-1300	1550.	80.	1000.	1900.
14	EC-41 1300-1350	1250.	<50.	1300.	2450.
15	EC-41 1350-1400	1250.	<50.	1250.	2450.
16	EC-41 1400-1450	1200.	65.	2150.	4200.
17	EC-41 1450-1500	1200.	<50.	1350.	2400.
18	EC-41 1500-1550	2400.	<50.	1200.	1650.
19	EC-41 1550-1600	1850.	85.	750.	1250.
20	EC-41 1600-1650	1600.	90.	750.	1200.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-21 681-700	2850.	7.	50.
2	EC-21 700-750	2300.	6.	50.
3	EC-41 0750-0800	540.	9.	55.
4	EC-41 0800-0850	130.	9.	25.
5	EC-41 0850-0900	125.	10.	35.
6	EC-41 0900-0950	85.	5.	30.
7	EC-41 0950-1000	170.	10.	45.
8	EC-41 1000-1050	2050.	15.	130.
9	EC-41 1050-1100	340.	8.	45.
10	EC-41 1100-1150	160.	14.	65.
11	EC-41 1150-1200	1300.	24.	45.
12	EC-41 1200-1250	1650.	11.	195.
13	EC-41 1250-1300	630.	15.	125.
14	EC-41 1300-1350	790.	10.	25.
15	EC-41 1350-1400	780.	19.	60.
16	EC-41 1400-1450	1400.	20.	30.
17	EC-41 1450-1500	770.	20.	30.
18	EC-41 1500-1550	360.	16.	90.
19	EC-41 1550-1600	405.	15.	50.
20	EC-41 1600-1650	355.	24.	60.


Gordon H. VanSickle
Manager

cc's: ✓ Richard Sherer, Englewood
Ray Reynolds, Englewood

File

Ed VanSickle

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

**JOB NO. DOH 380
October 8, 1984**

**Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155**

Analysis of 3 Pulps

ITEM	SAMPLE NUMBER	Zn (ppm)

1	EC-36 704-800	185.
2	EC-36 800-900	155.
3	EC-36 900-1000	145.

for *Edwin V. Post*
Gordon H. VanSickle
Manager

cc: ☒ Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 313

August 27, 1984

Molycorp, Inc.

Attn: R. Sherer

P.O. Box 3976

Englewood, Colorado 80155

Analysis of 108 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-42 0700-0800	950.	1700.	500.
2	EC-42 0800-0900	305.	640.	205.
3	EC-42 0900-1000	420.	1050.	380.
4	EC-42 1000-1100	425.	1100.	390.
5	EC-42 1100-1200	900.	1800.	750.
6	EC-42 1200-1310	360.	960.	470.
7	EC-42 1310-1400	130.	365.	165.
8	EC-42 1400-1500	210.	590.	350.
9	EC-42 1500-1600	345.	970.	510.
10	EC-42 1600-1700	175.	580.	310.
11	EC-42 1700-1800	205.	640.	420.
12	EC-42 1800-1900	170.	630.	350.
13	EC-42 1900-2000	135.	520.	270.
14	EC-42 2000-2100	155.	410.	175.
15	EC-42 2100-2200	125.	350.	200.
16	EC-42 2200-2300	195.	540.	245.
17	EC-42 2300-2400	275.	640.	275.
18	EC-42 2400-2504	355.	750.	320.
19	EC-44 0610-0700	590.	1050.	315.
20	EC-44 0700-0800	690.	1300.	450.
21	EC-44 0800-0900	220.	430.	175.
22	EC-44 0900-1000	245.	510.	230.
23	EC-44 1000-1100	485.	1000.	385.
24	EC-44 1100-1200	470.	990.	350.
25	EC-44 1200-1310	200.	390.	115.

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
26	EC-44 1310-1400	235.	580.	215.
27	EC-44 1400-1500	135.	300.	110.
28	EC-44 1500-1600	275.	500.	170.
29	EC-44 1600-1700	155.	400.	165.
30	EC-44 1700-1800	225.	610.	285.
31	EC-44 1800-1900	115.	250.	150.
32	EC-44 1900-2000	120.	345.	220.
33	EC-44 2000-2100	200.	485.	220.
34	EC-44 2100-2200	185.	590.	350.
35	EC-44 2200-2300	155.	460.	260.
36	EC-44 2300-2400	215.	580.	300.
37	EC-44 2400-2500	160.	455.	185.
43	EC-47 0570-0600	630.	1150.	445.
44	EC-47 0600-0700	380.	630.	215.
45	EC-47 0700-0800	1000.	1600.	590.
46	EC-47 0800-0900	730.	1150.	395.
47	EC-47 0900-1000	310.	590.	210.
48	EC-47 1000-1100	345.	350.	125.
49	EC-47 1100-1200	750.	1100.	410.
50	EC-47 1200-1300	840.	1200.	465.
51	EC-47 1300-1400	495.	880.	350.
52	EC-47 1400-1501	710.	1100.	320.
95	CA-1 0733-0800	200.	590.	290.
96	CA-1 0800-0900	100.	315.	140.
97	CA-1 0900-1002	130.	315.	145.
102	CA-3 0730-0800	385.	890.	375.
103	CA-3 0800-0900	130.	370.	140.
104	CA-3 0900-1019	85.	195.	65.
105	CA-5 0734-0800	260.	600.	330.
106	CA-5 0800-0900	215.	560.	250.
107	CA-5 0900-1000	110.	310.	160.
108	CA-5 1000-1042	135.	295.	75.

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)	U (ppm)
1	EC-42 0700-0800	10500.	.09	135.	6.
2	EC-42 0800-0900	13000.	.07	80.	12.
3	EC-42 0900-1000	23500.	.07	95.	6.
4	EC-42 1000-1100	26500.	.06	130.	17.
5	EC-42 1100-1200	23000.	.06	140.	16.
6	EC-42 1200-1310	12000.	.06	120.	16.
7	EC-42 1310-1400	6550.	.05	40.	30.
8	EC-42 1400-1500	6050.	.06	100.	17.
9	EC-42 1500-1600	4800.	.10	155.	36.
10	EC-42 1600-1700	9100.	.06	55.	28.
11	EC-42 1700-1800	14000.	.08	110.	10.
12	EC-42 1800-1900	23000.	.05	70.	26.
13	EC-42 1900-2000	10500.	.06	60.	17.
14	EC-42 2000-2100	5400.	.07	40.	16.
15	EC-42 2100-2200	5150.	.07	35.	11.
16	EC-42 2200-2300	6150.	.09	35.	22.
17	EC-42 2300-2400	6950.	.11	50.	10.
18	EC-42 2400-2504	3300.	.08	50.	12.
19	EC-44 0610-0700	10500.	.08	110.	7.
20	EC-44 0700-0800	11000.	.19	110.	14.
21	EC-44 0800-0900	7500.	.07	60.	12.
22	EC-44 0900-1000	8350.	.08	105.	10.
23	EC-44 1000-1100	12500.	.10	145.	15.
24	EC-44 1100-1200	10500.	.09	125.	30.
25	EC-44 1200-1310	7600.	.07	105.	22.
26	EC-44 1310-1400	10500.	.09	155.	15.
27	EC-44 1400-1500	4650.	.08	60.	3.
28	EC-44 1500-1600	5800.	.09	70.	5.
29	EC-44 1600-1700	6250.	.07	100.	4.
30	EC-44 1700-1800	10000.	.07	70.	6.
31	EC-44 1800-1900	14000.	.07	45.	18.
32	EC-44 1900-2000	7600.	.07	100.	9.
33	EC-44 2000-2100	6950.	.13	60.	7.
34	EC-44 2100-2200	6350.	.13	115.	15.
35	EC-44 2200-2300	6200.	.11	115.	20.

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)	U (ppm)
36	EC-44 2300-2400	7400.	.07	65.	19.
37	EC-44 2400-2500	8550.	.07	55.	8.
38	EC-45 0595-0700	9100.	.06	40.	3.
39	EC-45 0700-0800	10500.	.07	55.	<2.
40	EC-45 0800-0835	2700.	.06	50.	15.
41	EC-46 0700-0800	3350.	.07	<20.	14.
42	EC-46 0800-0855	1250.	.05	<20.	7.
43	EC-47 0570-0600	17000.	.13	55.	10.
44	EC-47 0600-0700	12500.	.07	<20.	4.
45	EC-47 0700-0800	27000.	.16	30.	5.
46	EC-47 0800-0900	24000.	.09	<20.	3.
47	EC-47 0900-1000	6500.	.09	45.	7.
48	EC-47 1000-1100	12000.	.05	<20.	4.
49	EC-47 1100-1200	12500.	.07	30.	5.
50	EC-47 1200-1300	12500.	.07	30.	3.
51	EC-47 1300-1400	9900.	.08	<20.	4.
52	EC-47 1400-1501	6750.	.08	<20.	3.
53	EC-49 0730-0800	7550.	.14	115.	9.
54	EC-49 0800-0900	37000.	.10	175.	9.
55	EC-49 0900-1025	16000.	.06	115.	7.
56	EC-50 0700-0800	32500.	.10	70.	7.
57	EC-50 0800-0900	15000.	.08	155.	11.
58	EC-50 0900-1000	10500.	.08	45.	4.
59	EC-50 1000-1100	9250.	.06	60.	8.
60	EC-50 1100-1200	6000.	.06	35.	19.
61	EC-50 1200-1300	5750.	.08	30.	6.
62	EC-50 1300-1400	7450.	.05	45.	6.
63	EC-50 1400-1500	27500.	.06	105.	9.
64	EC-50 1500-1600	33500.	.08	80.	12.
65	EC-50 1600-1700	4500.	.05	40.	10.
66	EC-50 1700-1800	7700.	.06	40.	10.
67	EC-50 1800-1900	8050.	.07	95.	5.
68	EC-50 1900-2002	4500.	.05	55.	10.
69	EC-51 725.5-0800	5150.	.05	80.	4.
70	EC-51 0800-0900	4950.	.03	70.	4.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)	U (ppm)
71	EC-51 0900-1000	20500.	.06	40.	4.
72	EC-51 1000-1100	3700.	.06	75.	11.
73	EC-51 1100-1200	11000.	.08	205.	28.
74	EC-51 1200-1300	7800.	.06	95.	9.
75	EC-51 1300-1400	7400.	.06	95.	12.
76	EC-51 1400-1500	10000.	.05	110.	12.
77	EC-51 1500-1544	18500.	.07	190.	17.
78	EC-52 0700-0800	7800.	.09	60.	5.
79	EC-52 0800-0900	10500.	.06	50.	4.
80	EC-52 0900-0950	11500.	.07	25.	4.
81	EC-54 0690-0800	5150.	.10	115.	7.
82	EC-54 0800-0900	3650.	.05	70.	7.
83	EC-54 0900-1000	7600.	.06	175.	5.
84	EC-54 1000-1100	15000.	.05	90.	5.
85	EC-54 1100-1200	910.	.07	100.	4.
86	EC-54 1200-1300	5750.	.09	100.	10.
87	EC-54 1300-1400	6750.	.05	40.	3.
88	EC-54 1400-1525 ²⁴	8450.	.06	105.	17.
89	EC-56 0630-0700	18000.	.21	55.	3.
90	EC-56 0700-0825	14000.	.51	55.	4.
91	EC-57 0652-0700	69500.	.23	55.	14.
92	EC-57 0700-0800	22500.	.06	30.	7.
93	EC-57 0800-0900	16000.	.08	20.	15.
94	EC-57 0900-1004	2400.	.06	60.	11.
95	CA-1 0733-0800	14000.	.23	80.	8.
96	CA-1 0800-0900	11000.	.04	45.	5.
97	CA-1 0900-1002	8600.	.06	120.	26.
98	CA-2 0652-0700	11000.	.06	90.	10.
99	CA-2 0700-0800	7600.	.07	70.	10.
100	CA-2 0800-0900	10500.	.08	25.	11.
101	CA-2 0900-0996	13500.	.08	45.	10.
102	CA-3 0730-0800	9900.	.09	125.	7.
103	CA-3 0800-0900	8500.	.04	45.	6.
104	CA-3 0900-1019	6650.	.06	30.	16.
105	CA-5 0734-0800	4650.	.09	75.	8.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

JOB NO. DOH 313

August 27, 1984

PAGE 6

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)	Th (ppm)	U (ppm)
106	CA-5 0800-0900	18500.	.06	60.	4.
107	CA-5 0900-1000	1900.	.05	40.	<2.
108	CA-5 1000-1042	1700.	.05	30.	<2.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	V (ppm)
1	EC-42 0700-0800	170.	.18	90.
2	EC-42 0800-0900	135.	.49	85.
3	EC-42 0900-1000	155.	.11	55.
4	EC-42 1000-1100	125.	.13	50.
5	EC-42 1100-1200	130.	.06	45.
6	EC-42 1200-1310	90.	.05	70.
7	EC-42 1310-1400	145.	.08	55.
8	EC-42 1400-1500	165.	.16	95.
9	EC-42 1500-1600	175.	.25	120.
10	EC-42 1600-1700	115.	.08	55.
11	EC-42 1700-1800	160.	.10	75.
12	EC-42 1800-1900	165.	.30	120.
13	EC-42 1900-2000	125.	.20	90.
14	EC-42 2000-2100	85.	.06	55.
15	EC-42 2100-2200	90.	.12	65.
16	EC-42 2200-2300	130.	.46	120.
17	EC-42 2300-2400	180.	1.60	245.
18	EC-42 2400-2504	120.	.15	75.
19	EC-44 0610-0700	195.	.13	50.
20	EC-44 0700-0800	175.	.57	95.
21	EC-44 0800-0900	80.	.17	45.
22	EC-44 0900-1000	110.	.14	50.
23	EC-44 1000-1100	130.	.23	75.
24	EC-44 1100-1200	185.	.16	90.
25	EC-44 1200-1310	130.	.17	70.
26	EC-44 1310-1400	180.	.23	70.
27	EC-44 1400-1500	115.	.29	55.
28	EC-44 1500-1600	115.	.26	70.
29	EC-44 1600-1700	110.	.22	70.
30	EC-44 1700-1800	100.	.19	75.
31	EC-44 1800-1900	90.	.27	70.
32	EC-44 1900-2000	80.	.08	55.
33	EC-44 2000-2100	145.	1.30	225.
34	EC-44 2100-2200	110.	.64	115.
35	EC-44 2200-2300	175.	.55	80.

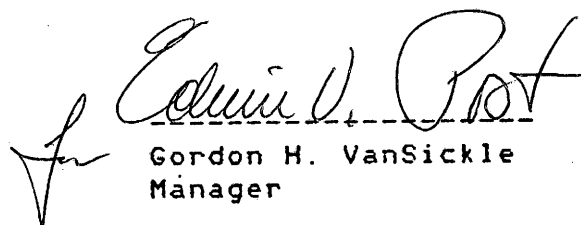
ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	V (ppm)
36	EC-44 2300-2400	100.	.26	90.
37	EC-44 2400-2500	100.	.23	80.
38	EC-45 0595-0700	110.	.32	60.
39	EC-45 0700-0800	110.	.14	45.
40	EC-45 0800-0835	70.	.05	35.
41	EC-46 0700-0800	65.	.12	30.
42	EC-46 0800-0855	65.	.05	15.
43	EC-47 0570-0600	225.	.59	315.
44	EC-47 0600-0700	320.	.49	185.
45	EC-47 0700-0800	400.	1.50	330.
46	EC-47 0800-0900	345.	.56	190.
47	EC-47 0900-1000	395.	.93	190.
48	EC-47 1000-1100	170.	.13	70.
49	EC-47 1100-1200	150.	.40	110.
50	EC-47 1200-1300	225.	.65	145.
51	EC-47 1300-1400	190.	.42	100.
52	EC-47 1400-1501	235.	.14	85.
53	EC-49 0730-0800	125.	1.30	235.
54	EC-49 0800-0900	100.	.34	155.
55	EC-49 0900-1025	100.	.21	85.
56	EC-50 0700-0800	145.	.35	95.
57	EC-50 0800-0900	195.	.33	105.
58	EC-50 0900-1000	90.	.17	50.
59	EC-50 1000-1100	100.	.30	85.
60	EC-50 1100-1200	75.	.13	55.
61	EC-50 1200-1300	120.	.17	55.
62	EC-50 1300-1400	110.	.13	55.
63	EC-50 1400-1500	125.	.22	105.
64	EC-50 1500-1600	90.	.19	95.
65	EC-50 1600-1700	90.	.04	35.
66	EC-50 1700-1800	95.	.14	60.
67	EC-50 1800-1900	75.	.05	40.
68	EC-50 1900-2002	100.	.08	40.
69	EC-51 725.5-0800	80.	.25	50.
70	EC-51 0800-0900	75.	.25	40.

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	V (ppm)
71	EC-51 0900-1000	110.	.17	50.
72	EC-51 1000-1100	310.	.12	50.
73	EC-51 1100-1200	260.	.28	70.
74	EC-51 1200-1300	250.	.23	45.
75	EC-51 1300-1400	240.	.25	70.
76	EC-51 1400-1500	230.	.25	75.
77	EC-51 1500-1544	180.	.26	85.
78	EC-52 0700-0800	40.	.15	55.
79	EC-52 0800-0900	45.	.20	65.
80	EC-52 0900-0950	35.	.13	55.
81	EC-54 0690-0800	100.	.17	30.
82	EC-54 0800-0900	110.	.20	30.
83	EC-54 0900-1000	125.	.31	50.
84	EC-54 1000-1100	60.	.25	55.
85	EC-54 1100-1200	70.	.40	75.
86	EC-54 1200-1300	100.	.48	105.
87	EC-54 1300-1400	45.	.19	55.
88	EC-54 1400-1525	80.	.21	45.
89	EC-56 0630-0700	170.	.81	195.
90	EC-56 0700-0825	245.	.84	165.
91	EC-57 0652-0700	170.	.48	115.
92	EC-57 0700-0800	95.	.07	25.
93	EC-57 0800-0900	105.	.06	25.
94	EC-57 0900-1004	85.	.05	20.
95	CA-1 0733-0800	130.	.99	155.
96	CA-1 0800-0900	50.	.11	30.
97	CA-1 0900-1002	45.	.21	60.
98	CA-2 0652-0700	75.	.46	110.
99	CA-2 0700-0800	170.	.44	100.
100	CA-2 0800-0900	190.	.46	120.
101	CA-2 0900-0996	150.	.27	90.
102	CA-3 0730-0800	75.	.46	150.
103	CA-3 0800-0900	75.	.18	50.
104	CA-3 0900-1019	80.	.15	35.
105	CA-5 0734-0800	70.	.47	90.

JOB NO. DOH 313
August 27, 1984
PAGE 10

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	V (ppm)
106	CA-5 0800-0900	60.	.35	75.
107	CA-5 0900-1000	55.	.22	55.
108	CA-5 1000-1042	40.	.08	45.

ITEM	SAMPLE NUMBER	P205 (%)
95	CA-1 0733-0800	5.8
96	CA-1 0800-0900	3.1
97	CA-1 0900-1002	3.4
102	CA-3 0730-0800	8.0
103	CA-3 0800-0900	4.8
104	CA-3 0900-1019	3.3
105	CA-5 0734-0800	7.8
106	CA-5 0800-0900	5.6
107	CA-5 0900-1000	3.7
108	CA-5 1000-1042	4.4


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 249
December 27, 1983

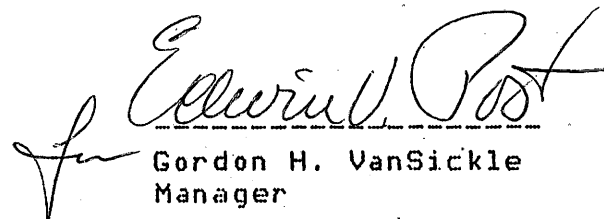
Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 15 Pulps

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)
1	EC-43 0600-0650	20500.	2.80	30.	6850.
2	EC-43 0650-0700	18500.	3.30	30.	7050.
3	EC-43 0700-0750	25000.	1.30	15.	7050.
4	EC-43 0750-0800	30500.	.85	15.	8700.
5	EC-43 0800-0850	21000.	1.20	20.	9000.
6	EC-43 0850-0900	9250.	2.20	35.	8300.
7	EC-43 0900-0950	32000.	2.10	25.	8150.
8	EC-43 0950-1000	42000.	1.60	10.	12000.
9	EC-43 1000-1050	62500.	.45	20.	10000.
10	EC-43 1050-1100	12500.	2.00	45.	6900.
11	EC-43 1100-1150	15000.	1.50	75.	6800.
12	EC-53 0600-0650	25000.	7.60	105.	575.
13	EC-53 0650-0700	27500.	8.40	105.	420.
14	EC-53 0700-0750	45000.	5.50	75.	480.
15	EC-53 0750-0800	35000.	7.10	80.	1750.

ITEM	SAMPLE NUMBER	Sr (ppm)	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-43 0600-0650	3250.	80.	1550.	2500.
2	EC-43 0650-0700	2650.	<50.	1250.	1950.
3	EC-43 0700-0750	2700.	70.	970.	1550.
4	EC-43 0750-0800	3400.	100.	2400.	3800.
5	EC-43 0800-0850	3400.	<50.	6100.	9050.
6	EC-43 0850-0900	2100.	<50.	830.	1000.
7	EC-43 0900-0950	3300.	55.	980.	1500.
8	EC-43 0950-1000	3250.	<50.	2000.	3750.
9	EC-43 1000-1050	4650.	<50.	3950.	6900.
10	EC-43 1050-1100	4750.	<50.	960.	1250.
11	EC-43 1100-1150	3500.	<50.	780.	1100.
12	EC-53 0600-0650	2900.	120.	1200.	1850.
13	EC-53 0650-0700	1950.	65.	1500.	2550.
14	EC-53 0700-0750	3100.	<50.	4750.	7350.
15	EC-53 0750-0800	2600.	<50.	830.	1650.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-43 0600-0650	800.	13.	185.
2	EC-43 0650-0700	490.	10.	230.
3	EC-43 0700-0750	485.	6.	140.
4	EC-43 0750-0800	1100.	12.	125.
5	EC-43 0800-0850	2350.	14.	175.
6	EC-43 0850-0900	255.	10.	135.
7	EC-43 0900-0950	540.	11.	225.
8	EC-43 0950-1000	1250.	3.	560.
9	EC-43 1000-1050	2150.	6.	295.
10	EC-43 1050-1100	305.	8.	670.
11	EC-43 1100-1150	290.	10.	230.
12	EC-53 0600-0650	720.	4.	65.
13	EC-53 0650-0700	780.	2.	55.
14	EC-53 0700-0750	1950.	4.	50.
15	EC-53 0750-0800	690.	4.	75.


Gordon H. VanSickle
Manager

cc's: ✓ Richard Sherer, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 254
January 3, 1984

RECEIVED

JAN 4 1983

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

MOLYCORP, INC.
ENCLEWOOD, CO.

Analysis of 35 Pulp Samples

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
1	EC-55 750-800	93500.	.33	15.	8000.	1400.
2	EC-55 800-850	67500.	.23	20.	7850.	1250.
3	EC-55 850-900	59500.	.60	20.	6450.	1300.
4	EC-55 900-950	59500.	.92	40.	7300.	1200.
5	EC-55 950-1000	70000.	.50	25.	6050.	1200.
6	EC-55 1000-1050	43000.	.44	25.	7350.	1100.
7	EC-55 1050-1100	45000.	.42	25.	6650.	2550.
8	EC-55 1100-1150	84000.	.02	15.	4150.	2200.
9	EC-55 1150-1200	57500.	.49	25.	5100.	1800.
10	EC-55 1200-1250	78500.	.04	10.	5100.	1750.
11	EC-55 1250-1300	54500.	.36	25.	5600.	1900.
12	EC-55 1300-1350	52500.	.45	25.	6450.	1650.
13	EC-55 1350-1400	57500.	.41	15.	6050.	1350.
14	EC-55 1400-1425 T.D.	49000.	.24	15.	5200.	2000.
15	EC-48 650-700	20500.	.33	40.	8700.	6200.
16	EC-48 700-750	10000.	.60	50.	8150.	5450.
17	EC-48 750-800	33500.	.14	25.	8600.	5800.
18	EC-48 800-850	39500.	.19	25.	9450.	5350.
19	EC-48 850-900	42500.	.48	35.	8750.	4100.
20	EC-48 900-950	27500.	.27	45.	10000.	4600.
21	EC-48 950-1000	25500.	.31	40.	8500.	5200.
22	EC-48 1000-1050	18000.	.48	15.	6950.	5000.
23	EC-48 1050-1100	8550.	.83	35.	7950.	5650.
24	EC-48 1100-1150	23500.	.29	50.	8900.	5150.
25	EC-48 1150-1200	35000.	.31	50.	10000.	5050.

JOB NO. DOH 254

January 3, 1984

PAGE 2

ITEM	SAMPLE NUMBER	Ba (ppm)	K (%)	Li (ppm)	Mn (ppm)	Sr (ppm)
26	EC-48 1200-1250	31000.	.60	65.	9900.	4350.
27	EC-48 1250-1300	18000.	.71	40.	8950.	3950.
28	EC-48 1300-1350	20500.	.71	65.	7550.	3850.
29	EC-48 1350-1400	12000.	.42	20.	6800.	2700.
30	EC-48 1400-1450	22500.	.21	15.	7100.	2850.
31	EC-48 1450-1500	17500.	.41	45.	6750.	3950.
32	EC-48 1500-1550	22500.	.20	30.	6550.	3600.
33	EC-48 1550-1600	16000.	.91	35.	6150.	2550.
34	EC-48 1600-1650	15000.	.84	30.	6550.	2800.
35	EC-48 1650-1700	12000.	.99	40.	6400.	2650.

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

ITEM	SAMPLE NUMBER	Th (ppm)	La (ppm)	Ce (ppm)
1	EC-55 750-800	175.	830.	2350.
2	EC-55 800-850	180.	1800.	4050.
3	EC-55 850-900	165.	2150.	4650.
4	EC-55 900-950	290.	1550.	3400.
5	EC-55 950-1000	240.	2600.	5500.
6	EC-55 1000-1050	<50.	3100.	7350.
7	EC-55 1050-1100	65.	830.	2000.
8	EC-55 1100-1150	205.	2700.	5950.
9	EC-55 1150-1200	45.	1500.	3200.
10	EC-55 1200-1250	60.	2700.	5900.
11	EC-55 1250-1300	175.	1100.	2650.
12	EC-55 1300-1350	60.	910.	2200.
13	EC-55 1350-1400	80.	1650.	4000.
14	EC-55 1400-1425 T.D.	<50.	1300.	2750.
15	EC-48 650-700	70.	2850.	3900.
16	EC-48 700-750	130.	890.	1550.
17	EC-48 750-800	<50.	4300.	6300.
18	EC-48 800-850	<50.	2200.	4300.
19	EC-48 850-900	<50.	1500.	3000.
20	EC-48 900-950	80.	1200.	2550.
21	EC-48 950-1000	75.	750.	1500.
22	EC-48 1000-1050	205.	485.	1200.
23	EC-48 1050-1100	65.	710.	1500.
24	EC-48 1100-1150	50.	1450.	2950.
25	EC-48 1150-1200	<50.	1800.	3350.
26	EC-48 1200-1250	<50.	1500.	2800.
27	EC-48 1250-1300	65.	1400.	2850.
28	EC-48 1300-1350	130.	1300.	2750.
29	EC-48 1350-1400	60.	435.	1300.
30	EC-48 1400-1450	70.	1800.	3500.
31	EC-48 1450-1500	75.	1250.	2250.
32	EC-48 1500-1550	75.	2500.	4300.
33	EC-48 1550-1600	145.	1350.	2300.
34	EC-48 1600-1650	130.	930.	1950.
35	EC-48 1650-1700	120.	950.	1900.

ITEM	SAMPLE NUMBER	Nd (ppm)	U (ppm)	Zn (ppm)
1	EC-55 750-800	980.	8.	30.
2	EC-55 800-850	1500.	7.	35.
3	EC-55 850-900	1450.	7.	40.
4	EC-55 900-950	1350.	6.	40.
5	EC-55 950-1000	1850.	10.	90.
6	EC-55 1000-1050	2650.	14.	45.
7	EC-55 1050-1100	730.	19.	50.
8	EC-55 1100-1150	2050.	17.	70.
9	EC-55 1150-1200	1150.	9.	95.
10	EC-55 1200-1250	2000.	15.	85.
11	EC-55 1250-1300	1000.	20.	165.
12	EC-55 1300-1350	750.	11.	80.
13	EC-55 1350-1400	1450.	10.	95.
14	EC-55 1400-1425 T.D.	910.	17.	100.
15	EC-48 650-700	860.	11.	255.
16	EC-48 700-750	560.	10.	210.
17	EC-48 750-800	1450.	11.	355.
18	EC-48 800-850	1400.	13.	300.
19	EC-48 850-900	1150.	13.	330.
20	EC-48 900-950	910.	12.	300.
21	EC-48 950-1000	610.	20.	490.
22	EC-48 1000-1050	485.	22.	95.
23	EC-48 1050-1100	580.	11.	155.
24	EC-48 1100-1150	910.	22.	170.
25	EC-48 1150-1200	950.	13.	195.
26	EC-48 1200-1250	770.	18.	165.
27	EC-48 1250-1300	820.	18.	180.
28	EC-48 1300-1350	820.	28.	275.
29	EC-48 1350-1400	500.	22.	150.
30	EC-48 1400-1450	1100.	18.	130.
31	EC-48 1450-1500	760.	14.	140.
32	EC-48 1500-1550	1350.	24.	130.
33	EC-48 1550-1600	740.	26.	175.
34	EC-48 1600-1650	710.	22.	110.
35	EC-48 1650-1700	650.	20.	165.

cc's: ✓ R. Sherer, Englewood
R. Reynolds, Englewood

Edward V. Post
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 323

July 30, 1984

Molycorp, Inc.

Attn: R. Sherer

P.O. Box 3976

Englewood, Colorado 80155

Analysis of 6 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	Zn (ppm)	Ba (%)	Ti (ppm)	U (ppm)
1	EC-58 560-600	.19	110.	.890	3150.	12.
2	EC-58 600-700	.10	170.	1.900	3450.	14.
3	EC-58 700-800	.13	170.	1.900	5600.	22.
4	EC-58 800-900	.13	185.	.850	4100.	12.
5	EC-59 480-600	.13	220.	1.300	7700.	11.
6	EC-59 600-700	.11	235.	.910	2550.	20.

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	P205 (%)	Th (ppm)	V (ppm)
1	EC-58 560-600	380.	740.	200.	1.5	35.	130.
2	EC-58 600-700	780.	1450.	390.	1.4	55.	125.
3	EC-58 700-800	990.	1600.	405.	2.5	40.	155.
4	EC-58 800-900	375.	710.	220.	2.9	20.	100.
5	EC-59 480-600	700.	1150.	300.	3.0	<20.	300.
6	EC-59 600-700	650.	1250.	365.	3.3	<20.	200.

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc: Ray Reynolds
W. Cook

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 328

July 31, 1984

1984 DH's

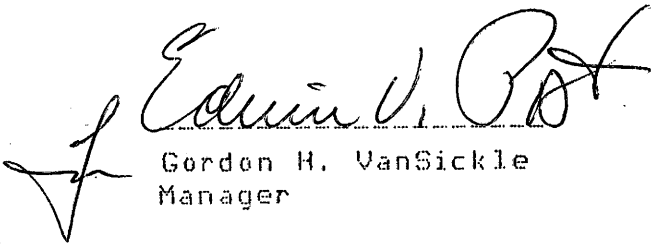
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 4 Pulp Samples

ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-58 900-999TD	.09	.16	830.	1350.	440.
2	EC-59 700-800	.11	.49	1350.	2050.	740.
3	EC-59 800-900	.10	.16	2250.	3150.	960.
4	EC-59 900-1001TD	.12	.42	1350.	2300.	820.

ITEM	SAMPLE NUMBER	Zn (ppm)	Ba (%)	Th (ppm)	V (ppm)	U (ppm)	P205 (%)
1	EC-58 900-999TD	140.	1.10	95.	60.	8.	2.4
2	EC-59 700-800	660.	.63	40.	230.	7.	2.1
3	EC-59 800-900	740.	1.00	30.	135.	5.	2.4
4	EC-59 900-1001TD	470.	.80	<25.	170.	9.	2.9

cc: ✓ Ray Reynolds
W. Cook


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 336

August 15, 1984

Molycorp, Inc.

Attn: R. Sherer

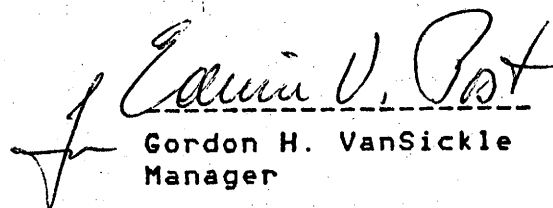
P.O. Box 3976

Englewood, Colorado 80155

Analysis of 2 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)	Ti (%)
1	EC-60: 780-900	385.	1050.	470.	.12	.20
2	EC-60: 900-1001	265.	670.	315.	.09	.22

ITEM	SAMPLE NUMBER	P205 (%)	Zn (ppm)	U (ppm)	Ba (ppm)	V (ppm)	Th (ppm)
1	EC-60: 780-900	5.1	90.	5.	7350.	75.	45.
2	EC-60: 900-1001	3.3	80.	5.	5600.	50.	25.


Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

JOB NO. DOH 338

August 16, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 1 Pulp Sample

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)	Ti (%)
1	EC-61: 750-800	1650.	2700.	880.	.22	.66

ITEM	SAMPLE NUMBER	P205 (%)	Zn (ppm)	U (ppm)	Ba (ppm)	V (ppm)	Th (ppm)
1	EC-61: 750-800	1.5	230.	9.	14500.	200.	215.

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc's: R. Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

JOB NO. DOH 349

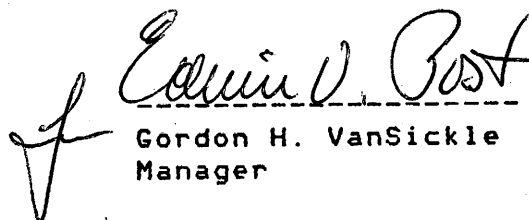
August 21, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 4 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)	P2O5 (%)
1	EC-61 800-900	1200.	2550.	890.	.12	2.3
2	EC-62 650-700	385.	840.	370.	.14	4.2
3	EC-62 700-800	150.	390.	225.	.13	4.5
4	EC-62 800-900	225.	540.	225.	.11	5.8

ITEM	SAMPLE NUMBER	Ti (%)	V (ppm)	Th (ppm)	Zn (ppm)	U (ppm)	Ba (ppm)
1	EC-61 800-900	.44	110.	125.	120.	11.	29000.
2	EC-62 650-700	.56	95.	90.	160.	11.	9750.
3	EC-62 700-800	.19	50.	45.	105.	6.	15500.
4	EC-62 800-900	.17	35.	80.	65.	14.	9600.


Gordon H. VanSickle
Manager

cc: Ray Reynolds, Englewood

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

JOB NO. DOH 355

August 30, 1984

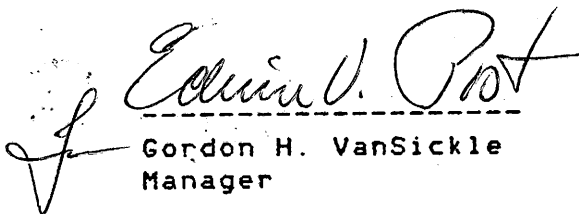
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 1 Pulp Sample

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)
1	EC-62: 0900-1000	225.	630.	345.	.09

ITEM	SAMPLE NUMBER	P205 (%)	Zn (ppm)	Ba (ppm)	Th (ppm)
1	EC-62: 0900-1000	6.2	65.	13000.	65.

ITEM	SAMPLE NUMBER	V (ppm)	Ti (%)	U (ppm)
1	EC-62: 0900-1000	50.	.09	7.


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

Rich

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SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

JOB NO. DOH 357
September 19, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 3 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)	Ti (%)	P2O5 (%)
1	EC63: 740-800	700.	1650.	650.	.16	.21	8.7
2	EC63: 800-900	415.	890.	540.	.10	.15	6.1
3	EC63: 900-1002TD	215.	490.	250.	.08	.11	4.2

ITEM	SAMPLE NUMBER	Zn (ppm)	Ba (ppm)	Th (ppm)	V (ppm)	U (ppm)
1	EC63: 740-800	80.	106000.	135.	80.	28.
2	EC63: 800-900	120.	23000.	140.	40.	11.
3	EC63: 900-1002TD	85.	6750.	80.	25.	6.

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc: Ray Reynolds

Eld Creek *Heil*

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 362
September 14, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

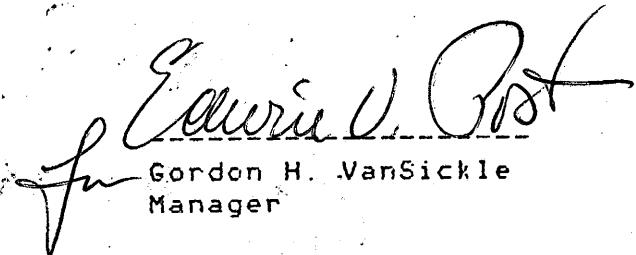
Analysis of 3 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC64 720-800	100.	265.	110.
2	EC64 800-900	85.	210.	100.
3	EC64 900-1004	140.	305.	120.

ITEM	SAMPLE NUMBER	P205 (%)	Na (%)
1	EC64 720-800	4.3	.08
2	EC64 800-900	4.7	.06
3	EC64 900-1004	4.7	.05

ITEM	SAMPLE NUMBER	Ti (%)	Zn (ppm)	Ba (ppm)	Th (ppm)
1	EC64 720-800	.30	10.	9450.	35.
2	EC64 800-900	.06	10.	4150.	<20.
3	EC64 900-1004	.08	15.	2000.	<20.

ITEM	SAMPLE NUMBER	V (ppm)	U (ppm)
1	EC64 720-800	70.	16.
2	EC64 800-900	40.	5.
3	EC64 900-1004	50.	4.

for 
Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds, Englewood

Wick

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SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 365
October 5, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

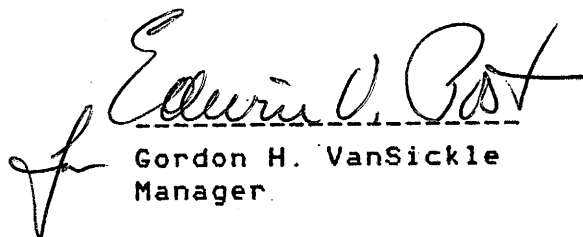
Analysis of 7 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-65: 690-800	290.	620.	230.
2	EC-65: 800-900	445.	820.	315.
3	EC-65: 900-1002TD	190.	445.	170.
4	EC-66: 630-700	600.	1050.	370.
5	EC-66: 700-800	740.	1400.	540.
6	EC-66: 800-900	810.	1600.	620.
7	EC-66 900-1001	850.	1600.	550.

ITEM	SAMPLE NUMBER	P205 (%)	Na (%)
1	EC-65: 690-800	2.9	.31
2	EC-65: 800-900	2.6	.15
3	EC-65: 900-1002TD	2.9	.11
4	EC-66: 630-700	2.4	.11
5	EC-66: 700-800	3.2	.12
6	EC-66: 800-900	2.8	.09
7	EC-66 900-1001	2.0	.13

ITEM	SAMPLE NUMBER	Ti (%)	Zn (ppm)	Ba (%)
1	EC-65: 690-800	.20	190.	.79
2	EC-65: 800-900	.15	250.	.23
3	EC-65: 900-1002TD	.35	205.	.55
4	EC-66: 630-700	.76	165.	1.60
5	EC-66: 700-800	.65	250.	1.10
6	EC-66: 800-900	.86	175.	1.80
7	EC-66 900-1001	1.30	270.	1.00

ITEM	SAMPLE NUMBER	Th (ppm)	V (ppm)	U (ppm)
1	EC-65: 690-800	55.	30.	5.
2	EC-65: 800-900	60.	40.	3.
3	EC-65: 900-1002TD	30.	40.	6.
4	EC-66: 630-700	70.	225.	7.
5	EC-66: 700-800	70.	255.	8.
6	EC-66: 800-900	60.	275.	12.
7	EC-66 900-1001	40.	290.	9.


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds, Englewood

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REPORT OF ANALYSIS

JOB NO. DOH 367
September 24, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

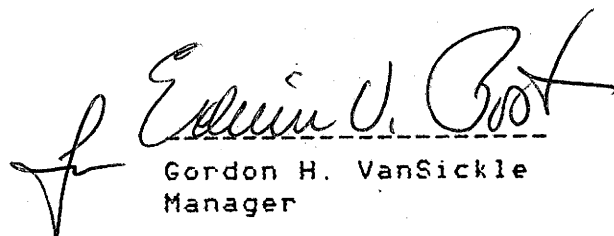
Analysis of 3 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-67: 720-800	120.	295.	115.
2	EC-67: 800-900	115.	270.	120.
3	EC-67: 900-1002	395.	860.	320.

ITEM	SAMPLE NUMBER	Ba (ppm)	Na (%)
1	EC-67: 720-800	6600.	.12
2	EC-67: 800-900	2200.	.08
3	EC-67: 900-1002	13500.	.08

ITEM	SAMPLE NUMBER	P205 (%)	Th (ppm)	V (ppm)
1	EC-67: 720-800	4.6	65.	130.
2	EC-67: 800-900	3.7	35.	90.
3	EC-67: 900-1002	2.8	75.	145.

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	U (ppm)
1	EC-67: 720-800	215.	1.50	9.
2	EC-67: 800-900	135.	.68	13.
3	EC-67: 900-1002	110.	1.10	6.


Gordon H. VanSickle
Manager

cc: Ray Reynolds, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

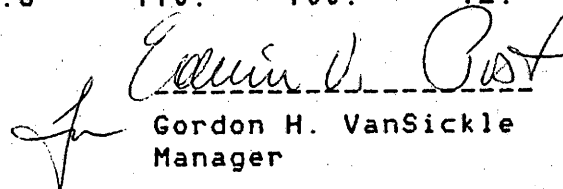
JOB NO. DOH 373
October 11, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 9 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)	Ti (%)	Zn (ppm)
1	EC-68 660-700	750.	1500.	610.	.16	.57	120.
2	EC-68 700-800	455.	740.	365.	.10	.19	105.
3	EC-68 800-900	210.	315.	105.	.04	.05	150.
4	EC-68 900-1003TD	330.	560.	225.	.05	.05	115.
5	EC-69 560-600	405.	510.	265.	.09	.15	140.
6	EC-69 600-700	180.	410.	140.	.12	.16	135.
7	EC-69 700-800	355.	690.	320.	.09	.42	165.
8	EC-69 800-900	455.	2350.	425.	.08	.38	180.
9	EC-69 900-1000	395.	2200.	355.	.08	.55	165.

ITEM	SAMPLE NUMBER	Ba (ppm)	P205 (%)	Th (ppm)	V (ppm)	U (ppm)
1	EC-68 660-700	44500.	10.3	280.	165.	14.
2	EC-68 700-800	67000.	5.4	165.	75.	6.
3	EC-68 800-900	9900.	1.2	60.	20.	2.
4	EC-68 900-1003TD	6450.	1.5	120.	20.	3.
5	EC-69 560-600	9700.	2.9	110.	35.	11.
6	EC-69 600-700	4400.	2.6	55.	25.	7.
7	EC-69 700-800	6450.	3.3	120.	70.	12.
8	EC-69 800-900	7650.	4.7	235.	90.	11.
9	EC-69 900-1000	7350.	4.6	170.	100.	12.


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

ELK CREEK CARBONATITE PHOSPHATE DATA (SKYLINE LABS)

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

These data included herein are values for phosphate content represented as % P_2O_5 .

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 9 600-700" refers to a sample removed from the depth interval 600 ft to 700 ft from drill hole 9. The abbreviation "COMP" is assumed to mean "composite".

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

EC-1
EC-2
EC-3
EC-4
EC-5
EC-6
EC-7
EC-8
EC-9
EC-10
EC-11
EC-12
EC-13
EC-14
EC-15
EC-16
EC-17
EC-18
EC-19
EC-20

EC-21
EC-22
EC-23
EC-24
EC-25
EC-26
EC-27
EC-27A
EC-28
EC-29
EC-30
EC-31
EC-32
EC-33
EC-34
EC-35
EC-36
EC-37
EC-38
EC-39
EC-40
EC-41
EC-42
EC-42A
EC-43
EC-44
EC-45
EC-46
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EC-50
EC-51
EC-52
EC-53
EC-54
EC-55
EC-56
EC-57

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 068
May 15, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 12 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-1 574-700	1.6
2	EC-1 700-800	1.5
3	EC-1 800-900	1.4
4	EC-1 900-1007	1.7
5	EC-2 623-700	2.1
6	EC-2 700-800	2.3
7	EC-2 800-900	2.2
8	EC-2 900-1000	2.6
9	EC-2 1000-1041	3.0
10	EC-3 513.1-600	1.3
11	EC-3 600-700	1.3
12	EC-3 700-792	1.0

Gordon H. VanSickle
Manager

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12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 055
November 11, 1980

Molycorp, Inc.
Attn: John Landreth-Regional Manager
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 20 Pulp Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	COMP EC-4 712.4-800	.45
2	COMP EC-4 0800-0900	.98
3	COMP EC-4 0900-1000	.91
4	COMP EC-4 1000-1100	.73
5	COMP EC-4 1100-1200	1.90
6	COMP EC-4 1200-1300	.53
7	COMP EC-4 1300-1400	2.20
8	COMP EC-4 1400-1500	1.50
9	COMP EC-4 1500-1600	1.40
10	COMP EC-4 1600-1700	1.20
11	COMP EC-4 1700-1800	1.00
12	COMP EC-4 1800-1900	.67
13	COMP EC-4 1900-2000	.44
14	COMP EC-4 2000-2105	.35
15	COMP EC-4-2105-2200	.78
16	COMP EC-4 2200-2300	.73
17	COMP EC-4 2300-2400	.76
18	COMP EC-4 2400-2500	.63
19	COMP EC-4 2500-2600	.54
20	COMP EC-4 2600-2653	.55

Gordon H. VanSickle
Manager

Rec'd 4/2/81
File

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REPORT OF ANALYSIS

EC-5

JOB NO. DOH 063
March 30, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 11 Pulp Samples

			P205
			(%)
29	1	EC-5 623-700	1.1
	2	EC-5 0700-0800	2.2
	3	EC-5 0800-0900	.9
32	4	EC-5 0900-1000	2.6
	5	EC-5 1000-1100	2.3
?	6	EC-5 1100-1200	2.2
	7	EC-5 1200-1300	2.3
	8	EC-5 1300-1400	2.5
	9	EC-5 1400-1500	1.1
	10	EC-5 1500-1600	1.1
	11	EC-5 1600-1656	2.0

Gordon H. VanSickle
Gordon H. VanSickle
Manager

File *J*

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REPORT OF ANALYSIS

EC-6

JOB NO. DOH 065

April 13, 1981

USE EC-5/8

Molycorp, Inc.
Attn: John D. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 12 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-6 0625-0700	1.2
2	EC-6 0700-0800	2.4
3	EC-6 0800-0900	1.6
4	EC-6 0900-1000	1.4
5	EC-6 1000-1100	1.8
6	EC-6 1100-1200	1.5
7	EC-6 1200-1300	2.5
8	EC-6 1300-1400	3.1
9	EC-6 1400-1500	2.3
10	EC-6 1500-1600	1.8
11	EC-6 1600-1700	2.4
12	EC-6 1700-1804	1.9

Gordon H. VanSickle
for Gordon H. VanSickle
Manager

Rec'd 3/18/81

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12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

EC-7

JOB NO. DOH 060

March 13, 1981

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 19 Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
33	1 COMP EC-7 620-700	1.80
	2 COMP EC-7 0700-0800	1.90
	3 COMP EC-7 0800-0900	1.00
	4 COMP EC-7 0900-1000	2.40
	5 COMP EC-7 1000-1100	2.10
	6 COMP EC-7 1100-1200	3.20
	7 COMP EC-7 1200-1300	2.60
	8 COMP EC-7 1300-1400	2.80
	9 COMP EC-7 1400-1500	2.90
	10 COMP EC-7 1500-1600	2.30
	11 COMP EC-7 1605-1700	1.30
	12 COMP EC-7 1700-1800	2.20
	13 COMP EC-7 1800-1890	.93
	14 COMP EC-7 1900-2000	2.30
	15 COMP EC-7 2000-2090	3.10
	16 COMP EC-7 2100-2200	2.10
	17 COMP EC-7 2200-2300	2.10
	18 COMP EC-7 2300-2400	1.80
57	19 COMP EC-7 2400-2475	2.10

Gordon H. VanSickle
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

EC-8

JOB NO. DOH 067

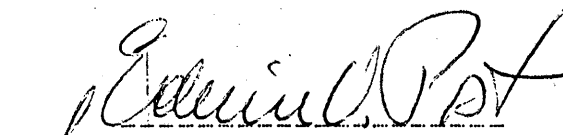
May 1, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 16 Pulp Samples

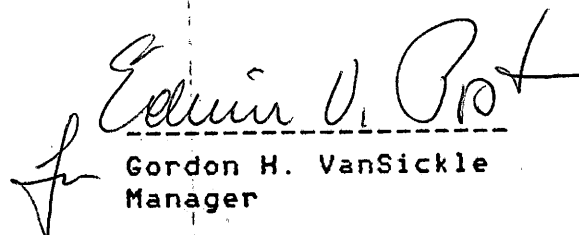
		P205	
		(%)	
52	1	EC-8 0980-1100	1.5
	2	EC-8 1100-1200	1.8
	3	EC-8 1200-1300	2.0
	4	EC-8 1300-1400	2.0
	5	EC-8 1400-1500	2.5
	6	EC-8 1500-1600	2.1
	7	EC-8 1600-1700	2.0
	8	EC-8 1700-1800	1.7
	9	EC-8 1800-1900	1.8
	10	EC-8 1900-2000	2.5
	11	EC-8 2000-2100	2.3
	12	EC-8 2100-2200	1.8
	13	EC-8 2200-2300	2.2
	14	EC-8 2300-2400	2.3
	15	EC-8 2400-2500	2.0
67	16	EC-8 2500-2597	2.0

OK to pay #900
John L


Gordon H. VanSickle
Manager

ITEM	SAMPLE NUMBER	P205 (%)
------	---------------	-------------

30	EC-9 550-600	.75
31	EC-9 0600-0700	.30
32	EC-9 0700-0800	.58
33	EC-9 0800-0900	.85
34	EC-9 0900-1000	.38
35	EC-9 1000-1100	.67
36	EC-9 1100-1200	.41
37	EC-9 1200-1300	.43
38	EC-9 1300-1365	.75
113	EC-23 520-600	.46
114	EC-23 0600-0700	.84
115	EC-23 0700-0800	.56
116	EC-23 0800-0900	.60
117	EC-23 0900-1000	.43
118	EC-23 1000-1100	.74
119	EC-23 1100-1200	.55
120	EC-23 1200-1300	.57
121	EC-23 1300-1375	.50


Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 054
OCTOBER 13, 1980

Molycorp, Inc.
Attn: J. Landreth, Regional Manager
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 12 Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	COMP EC-10 685-800	4.5
2	COMP EC-10 800-900	3.9
3	COMP EC-10 900-1000	3.9
4	COMP EC-10 1000-1100	3.4
5	COMP EC-10 1100-1200	4.1
6	COMP EC-10 1200-1300	3.7
7	COMP EC-10 1300-1400	3.8
8	COMP EC-10 1400-1500	3.2
9	COMP EC-10 1500-1600	3.0
10	COMP EC-10 1600-1700	2.8
11	COMP EC-10 1700-1800	3.1
12	COMP EC-10 1800-1899	3.2

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

AUG 14 1980

JOB NO. DOH 044
AUGUST 11, 1980

Molycorp, Inc.
Attn: John O. Landreth, Reg. Manager
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 13 Composite Samples

ITEM SAMPLE NUMBER P205 (%)

77	125	COMP EC11 665-700	.60
	126	COMP EC11 700-750	.67
	127	COMP EC11 750-800	.64
	128	COMP EC11 800-850	.58
	129	COMP EC11 850-900	1.60
	130	COMP EC11 900-950	.64
	131	COMP EC11 950-1000	1.50
	132	COMP EC11 1000-1050	.64
	133	COMP EC11 1050-1100	1.60
	134	COMP EC11 1100-1150	.73
	135	COMP EC11 1150-1200	.54
	136	COMP EC11 1200-1250	.61
	137	COMP EC11 1250-1300	.73

Average

Gordon H. VanSickle
Gordon H. VanSickle
Manager

EC

Rec'd 8/29

SKYLINE LABS, INC.

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12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

JWK

Fitz

REPORT OF ANALYSIS

JOB NO. DOH 047
AUGUST 27, 1980

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 14 Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-11 COMP 1300-1350	.66
2	EC-11 COMP 1350-1400	1.20
3	EC-11 COMP 1400-1450	.60
4	EC-11 COMP 1450-1500	.94
5	EC-11 COMP 1500-1550	.15
6	EC-11 COMP 1550-1600	.13
7	EC-11 COMP 1600-1650	.13
8	EC-11 COMP 1650-1700	.15
9	EC-11 COMP 1700-1750	.25
10	EC-11 COMP 1750-1800	.28
11	EC-11 COMP 1800-1850	.23
12	EC-11 COMP 1850-1900	.68
13	EC-11 COMP 1900-1950	.15
14	EC-11 COMP 1950-2000	.78

Gordon H. VanSickle
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

JOB NO. DOH 048
AUGUST 29, 1980

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 11 Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	COMP EC-11 2000-2050	.79
2	COMP EC-11 2050-2100	.33
3	COMP EC-11 2100-2150	.55
4	COMP EC-11 2150-2200	.58
5	COMP EC-11 2200-2250	.31
6	COMP EC-11 2250-2300	.80
7	COMP EC-11 2300-2350	.28
8	COMP EC-11 2350-2400	.40
9	COMP EC-11 2400-2450	.49
10	COMP EC-11 2450-2500	.29
11	COMP EC-11 2500-2524	.28

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 062
March 23, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 5 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-12 720-800	1.1
2	EC-12 800-900	2.4
3	EC-12 900-1000	2.9
4	EC-12 1000-1100	3.0
5	EC-12 1100-1204	2.1

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 061
March 23, 1981

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 15 Composite and 4 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	COMP EC-13 585-600	.90
2	COMP EC-13 600-700	2.10
3	COMP EC-13 700-800	2.80
4	COMP EC-13 800-900	2.30
5	COMP EC-13 900-1000	2.80
6	COMP EC-13 1000-1100	1.40
7	COMP EC-13 1100-1200	2.30
8	COMP EC-13 1200-1300	2.20
9	COMP EC-13 1300-1400	1.70
10	COMP EC-13 1400-1500	2.10
11	COMP EC-13 1500-1600	1.50
12	COMP EC-13 1600-1700	1.60
13	COMP EC-13 1700-1800	1.50
14	COMP EC-13 1800-1900	1.80
15	COMP EC-13 1900-2001	2.00
16	EC-25 630-700	2.60
17	EC-25 700-800	1.50
18	EC-25 800-900	1.80
19	EC-25 900-999	2.10

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 051
OCTOBER 3, 1980

Molycorp, Inc.
Attn: J. Landreth, Regional Manager
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 38 Composite Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	COMP EC-14 0633-0700	2.20
2	COMP EC-14 0700-0800	3.00
3	COMP EC-14 0800-0900	2.60
4	COMP EC-14 0900-1000	1.40
5	COMP EC-14 1000-1100	1.20
6	COMP EC-14 1100-1200	.75
7	COMP EC-14 1200-1300	1.10
8	COMP EC-14 1300-1400	.72
9	COMP EC-14 1400-1500	1.40
10	COMP EC-14 1500-1600	1.40
11	COMP EC-14 1600-1700	.72
12	COMP EC-14 1700-1800	.61
13	COMP EC-14 1800-1900	.73
14	COMP EC-14 1900-2000	.65
15	COMP EC-14 2000-2100	.49
16	COMP EC-14 2100-2200	.49
17	COMP EC-14 2200-2300	.61
18	COMP EC-14 2300-2320	.59
19	COMP EC-15 0712-0800	5.30
20	COMP EC-15 0800-0900	7.60
21	COMP EC-15 0900-1000	2.90
22	COMP EC-15 1000-1100	1.90
23	COMP EC-15 1100-1200	2.20
24	COMP EC-15 1200-1300	2.30
25	COMP EC-15 1300-1400	2.10

JOB NO. DOH 051
OCTOBER 3, 1980
PAGE 2

ITEM	SAMPLE NUMBER	P205 (%)
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26	COMP EC-15 1400-1500	1.90
27	COMP EC-15 1500-1600	1.60
28	COMP EC-15 1600-1700	1.00
29	COMP EC-15 1700-1800	1.40
30	COMP EC-15 1800-1900	1.10
31	COMP EC-15 1900-2000	1.30
32	COMP EC-15 2000-2100	.87
33	COMP EC-15 2100-2200	1.40
34	COMP EC-15 2200-2300	1.30
35	COMP EC-15 2300-2400	1.00
36	COMP EC-15 2400-2500	.92
37	COMP EC-15 2500-2600	2.30
38	COMP EC-15 2600-2680	1.90

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

File
Paid 8/18

EIK Creek

EC-16

JOB NO. DOH 045
AUGUST 13, 1980

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 20 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
128 1	EC16 709-800	2.40
2	EC16 900-1000A	2.50
3	EC16 900-1000B	1.80
4	EC16 1000-1100	1.60
5	EC16 1100-1200	.45
6	EC16 1200-1300	.40
7	EC16 1300-1400	1.50
8	EC16 1400-1500	.45
9	EC16 1500-1600	1.20
10	EC16 1600-1700	.61
11	EC16 1700-1800	.64
12	EC16 1800-1900	.40
13	EC16 1900-2000	.65
14	EC16 2000-2100	.26
15	EC16 2100-2200	.15
16	EC16 2200-2300	.39
17	EC16 2300-2400	.16
18	EC16 2400-2500	.10
19	EC16 2500-2600	1.10
147 20	EC16 2600-2682	2.50

Gordon H. VanSickle
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 050
SEPTEMBER 8, 1980

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 26 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-17 0530-0600	.61
2	EC-17 0600-0700	.68
3	EC-17 0700-0800	.59
4	EC-17 0800-0900	.67
5	EC-17 0900-1000	.61
6	EC-17 1000-1100	.67
7	EC-17 1100-1200	.70
8	EC-17 1200-1300	.46
9	EC-17 1300-1400	1.00
10	EC-17 1400-1500	.54
11	EC-17 1500-1600	.59
12	EC-17 1600-1700	1.50
13	EC-17 1700-1800	.88
14	EC-17 1800-1900	.46
15	EC-17 1900-2000	.78
16	EC-17 2000-2010	.38
17	EC-18 0610-0700	1.20
18	EC-18 0700-0800	1.80
19	EC-18 0800-0900	1.90
20	EC-18 0900-1000	3.10

JOB NO. DOH 050
SEPTEMBER 8, 1980
PAGE 2

ITEM	SAMPLE NUMBER	P205 (%)
21	EC-18 1000-1100	1.70
22	EC-18 1100-1200	1.30
23	EC-18 1200-1300	1.40
24	EC-18 1300-1400	1.40
25	EC-18 1400-1500	1.00
26	EC-18 1500-1517	.81

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 056
November 25, 1980

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 51 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-19 610-700	1.45
2	EC-19 700-800	.79
3	EC-19 800-900	1.13
4	EC-19 900-1020	1.73
5	EC-19 1000-1100	1.42
6	EC-19 1100-1200	1.43
7	EC-19 1200-1300	1.61
8	EC-19 1300-1390	1.96
9	EC-19 1390-1500	1.54
10	EC-19 1500-1600	1.34
11	EC-19 1600-1700	1.37
12	EC-19 1700-1800	1.24
13	EC-19 1800-1900	2.10
14	EC-19 1900-2000	.91
15	EC-19 2000-2100	1.55
16	EC-19 2100-2179	1.59
17	EC-20 610-700	1.14
18	EC-20 700-800	1.08
19	EC-20 800-900	1.38
20	EC-20 900-1000	.95
21	EC-20 1000-1100	.92
22	EC-20 1100-1200	.91
23	EC-20 1200-1300	1.58
24	EC-20 1300-1400	.77
25	EC-20 1400-1500	1.14

ITEM	SAMPLE NUMBER	P205 (%)
26	EC-20 1500-1600	1.69
27	EC-20 1600-1700	1.01
28	EC-20 1700-1800	.63
29	EC-20 1800-1900	.74
30	EC-20 1900-2000	.35
31	EC-20 2000-2100	.36
32	EC-20 2100-2200	.60
33	EC-20 2200-2300	.85
34	EC-20 2300-2400	1.07
35	EC-20 2400-2424 1/2	.31
36	EC-21 670-700	.62
37	EC-21 0700-0800	1.24
38	EC-21 0800-0900	1.28
39	EC-21 0900-1000	1.09
40	EC-21 1000-1100	1.03
41	EC-21 1100-1200	1.27
42	EC-21 1200-1300	1.00
43	EC-21 1300-1400	.70
44	EC-21 1400-1500	.60
45	EC-21 1500-1600	1.00
46	EC-21 1600-1700	.78
47	EC-21 1700-1800	1.22
48	EC-21 1800-1900	1.01
49	EC-21 1900-2000	3.04
50	EC-21 2000-2100	3.09
51	EC-21 2100-2114	14.50 ?

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

EC-22

JOB NO. DOH 058
February 12, 1981

Molycorp, Inc.
Attn: John Landreth
P.O. Box 607
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
193 1	EC-22 660-710	2.60
2	EC-22 710-800	3.20
3	EC-22 0800-0900	2.80
4	EC-22 0900-1000	3.80
5	EC-22 1000-1100	2.50
6	EC-22 1100-1200	2.60
7	EC-22 1200-1300	1.30
8	EC-22 1300-1400	1.80
9	EC-22 1400-1500	1.20
10	EC-22 1500-1600	1.10
11	EC-22 1600-1700	1.30
12	EC-22 1700-1800	.93
13	EC-22 1800-1900	1.20
14	EC-22 1900-2000	.99
15	EC-22 2000-2100	.71
16	EC-22 2100-2200	.60
17	EC-22 2200-2300	.51
210 18	EC-22 2300-2406	.84

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

*File Elk Creek
cc: Went to N.D.*

EC-24

JOB NO. DOH 059
February 26, 1981
SHIPMENT NO. 1

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 4 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
220 1	EC-24 635-700	5.4
2	EC-24 700-800	3.0
3	EC-24 800-900	3.3
220 4	EC-24 900-925TD	2.7

Gordon H. VanSickle

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 066
April 22, 1981

Molycorp, Inc.
Attn: John Landreth, Regional Manager
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-26 0630-0700	3.60
2	EC-26 0700-0800	2.80
3	EC-26 0800-0900	2.50
4	EC-26 0900-1000	2.40
5	EC-26 1000-1100	1.90
6	EC-26 1100-1200	1.30
7	EC-26 1200-1300	1.60
8	EC-26 1300-1400	1.70
9	EC-26 1400-1500	1.30
10	EC-26 1500-1600	.66
11	EC-26 1600-1700	.63
12	EC-26 1700-1800	.67
13	EC-26 1800-1900	.59
14	EC-26 1900-2000	.56
15	EC-26 2000-2100	.54
16	EC-26 2100-2200	.39
17	EC-26 2200-2300	.75
18	EC-26 2300-2405	1.40

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

EC-27

JOB NO. DOH 072
AUGUST 13, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 19 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
	1 EC-27 560-600	.09
	2 EC-27 600-700	1.40
237	3 EC-27 700-800	2.20
	4 EC-27 800-900	1.50
	5 EC-27 900-1000	.77
	6 EC-27 1000-1100	1.20
	7 EC-27 1100-1200	1.20
	8 EC-27 1200-1300	1.10
	9 EC-27 1300-1400	.76
	10 EC-27 1400-1500	.63
	11 EC-27 1500-1600	.83
	12 EC-27 1600-1700	1.00
	13 EC-27 1700-1800	1.10
	14 EC-27 1800-1900	1.90
249	15 EC-27 1900-2000	.98
	16 EC-27 2000-2095	.84
	17 EC-27A 2050-2100	.50
	18 EC-27A 2100-2200	.58
	19 EC-27A 2200-2303	1.30

Gordon H. VanSickle
for Gordon H. VanSickle
Manager

Nancy Dimick

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

EC-28

JOB NO. DOH 071

July 31, 1981

Molycorp, Inc.
Attn: John Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 20 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
253 1	EC-28 0630-700	.92
2	EC-28 0700-0800	.78
3	EC-28 0800-0900	.64
4	EC-28 0900-1000	.33
5	EC-28 1000-1100	.43
6	EC-28 1100-1200	.55
7	EC-28 1200-1300	.71
8	EC-28 1300-1400	.72
9	EC-28 1400-1500	1.00
10	EC-28 1500-1600	.43
11	EC-28 1600-1700	.46
12	EC-28 1700-1800	.31
13	EC-28 1800-1900	.37
14	EC-28 1900-2000	.55
15	EC-28 2000-2100	.47
16	EC-28 2100-2200	.23
17	EC-28 2200-2300	.34
18	EC-28 2300-2400	.66
19	EC-28 2400-2500	.72
27220	EC-28 2500-2525 T.D.	.30

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 075
September 16, 1981

Molycorp, Inc.
Attn: John O. Landreth
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-29 640-700	.72
2	EC-29 700-800	2.70
3	EC-29 800-900	1.70
4	EC-29 900-1000	4.00
5	EC-29 1000-1100	2.60
6	EC-29 1100-1200	1.70
7	EC-29 1200-1300	2.60
8	EC-29 1300-1400	.58
9	EC-29 1400-1500	.38
10	EC-29 1500-1600	.80
11	EC-29 1600-1700	2.10
12	EC-29 1700-1800	2.90
13	EC-29 1800-1900	.26
14	EC-29 1900-2000	1.50
15	EC-29 2000-2100	2.50
16	EC-29 2100-2200	3.80
17	EC-29 2200-2300	3.50
18	EC-29 2300-2382 T.D.	3.70

Gordon H. VanSickle
Manager

RECEIVED

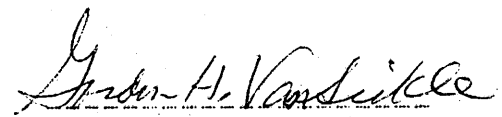
EC-30

OCT -7 1981

JOB NO. DOH 076
October 1, 1981
PAGE 2

MOLYCORP, INC.
ENGLEWOOD, CO.

ITEM	SAMPLE NUMBER	P205 (%)
2	EC-30 580-600	.24
273 ↓ 3	EC-30 600-700	3.00
4	EC-30 700-800	1.60
5	EC-30 800-900	2.60
6	EC-30 900-1000	2.30
7	EC-30 1000-1100	1.10
8	EC-30 1100-1200	.90
9	EC-30 1200-1300	1.40
10	EC-30 1300-1400	.99
11	EC-30 1400-1500	1.40
12	EC-30 1500-1600	1.90
13	EC-30 1600-1700	1.20
14	EC-30 1700-1800	1.10
15	EC-30 1800-1900	1.00
16	EC-30 1900-2000	1.70
17	EC-30 2000-2100	2.20
18	EC-30 2100-2200	1.70
19	EC-30 2200-2300	1.80
20	EC-30 2300-2400	2.50
291 21	EC-30 2400-2484 T.D.	2.20


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

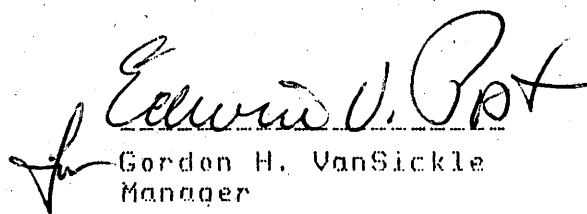
EC-31

JOB NO. DOH 080
October 12, 1981
SHIPMENT NO. 3

Molycorp, Inc.
Attn: Jim Keim
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 11 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
292 1	EC-31 650-700	.79
2	EC-31 700-800	.87
3	EC-31 800-900	2.40
4	EC-31 900-1000	3.40
5	EC-31 1000-1100	4.20
6	EC-31 1100-1200	3.70
7	EC-31 1200-1300	2.90
8	EC-31 1300-1400	2.90
9	EC-31 1400-1500	4.30
10	EC-31 1500-1600	4.00
302 11	EC-31 1600-1681 TD	4.20


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSTS

RECEIVED

DEC 11 1981

MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 083
December 7, 1981

EC-32

Molycorp, Inc.
Attn: Nancy Dimick
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 32 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
308 1	EC-32 0640-0700	6.60
2	EC-32 0700-0800	3.20
3	EC-32 0800-0900	1.40
4	EC-32 0900-1000	2.30
5	EC-32 1000-1100	1.50
6	EC-32 1100-1200	3.10
7	EC-32 1200-1300	4.90
8	EC-32 1300-1400	3.40
9	EC-32 1400-1500	1.10
10	EC-32 1500-1600	.43
11	EC-32 1600-1700	.88
12	EC-32 1700-1800	1.60
13	EC-32 1800-1900	.86
14	EC-32 1900-2000	.77
15	EC-32 2000-2100	1.70
318 16	EC-32 2100-2235TD	3.00
17	EC-33 0630-0700	6.70
18	EC-33 0700-0800	2.60
19	EC-33 0800-0900	3.30
20	EC-33 0900-1000	3.80
21	EC-33 1000-1100	2.10
22	EC-33 1100-1200	2.20
23	EC-33 1200-1330TD	3.80
24	EC-34 0660-0700	3.80
25	EC-34 0700-0800	2.70

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSTS

RECEIVED

DEC 11 1981

MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 083
December 7, 1981

EC-33

Molycorp, Inc.
Attn: Nancy Dimick
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

Analysis of 32 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-32 0640-0700	6.60
2	EC-32 0700-0800	3.20
3	EC-32 0800-0900	1.40
4	EC-32 0900-1000	2.30
5	EC-32 1000-1100	1.50
6	EC-32 1100-1200	3.10
7	EC-32 1200-1300	4.90
8	EC-32 1300-1400	3.40
9	EC-32 1400-1500	1.10
10	EC-32 1500-1600	.43
11	EC-32 1600-1700	.88
12	EC-32 1700-1800	1.60
13	EC-32 1800-1900	.86
14	EC-32 1900-2000	.77
15	EC-32 2000-2100	1.70
16	EC-32 2100-2235TD	3.00
319 17	EC-33 0630-0700	6.70
18	EC-33 0700-0800	2.60
19	EC-33 0800-0900	3.30
20	EC-33 0900-1000	3.80
21	EC-33 1000-1100	2.10
22	EC-33 1100-1200	2.20
325 23	EC-33 1200-1330TD	3.80
24	EC-34 0660-0700	3.80
25	EC-34 0700-0800	2.70

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSTS

RECEIVED

DEC 11 1981

MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 083
December 7, 1981

EC-34

Molycorp, Inc.
Attn: Nancy Dimick
Exploration Division
P.O. Box 607
Louviers, Colorado 80131

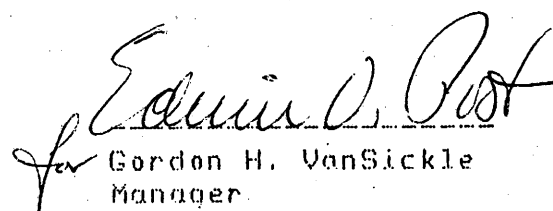
Analysis of 32 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-32 0640-0700	6.60
2	EC-32 0700-0800	3.20
3	EC-32 0800-0900	1.40
4	EC-32 0900-1000	2.30
5	EC-32 1000-1100	1.50
6	EC-32 1100-1200	3.10
7	EC-32 1200-1300	4.90
8	EC-32 1300-1400	3.40
9	EC-32 1400-1500	1.10
10	EC-32 1500-1600	.43
11	EC-32 1600-1700	.88
12	EC-32 1700-1800	1.60
13	EC-32 1800-1900	.86
14	EC-32 1900-2000	.77
15	EC-32 2000-2100	1.70
16	EC-32 2100-2235TD	3.00
17	EC-33 0630-0700	6.70
18	EC-33 0700-0800	2.60
19	EC-33 0800-0900	3.30
20	EC-33 0900-1000	3.80
21	EC-33 1000-1100	2.10
22	EC-33 1100-1200	2.20
23	EC-33 1200-1330TD	3.80
326 24	EC-34 0660-0700	3.80
25	EC-34 0700-0800	2.70

JOB NO. DOH 083
December 7, 1981
PAGE 2

ITEM	SAMPLE NUMBER	P205 (%)
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26	EC-34 0800-0900	3.10
27	EC-34 0900-1000	4.70
28	EC-34 1000-1100	4.60
33/ 29	EC-34 1100-1190TD	3.60
30	EC-35 0630-0700	4.10
31	EC-35 0700-0800	4.80
32	EC-35 0800-0853TD	4.40


for Gordon H. VanSickle
Manager

cc: Ray Reynolds

EC-35

JOB NO. DOH 083
December 7, 1981
PAGE 2

ITEM	SAMPLE NUMBER	P205 (%)
26	EC-34 0800-0900	3.10
27	EC-34 0900-1000	4.70
28	EC-34 1000-1100	4.60
29	EC-34 1100-1190TD	3.60
332 30	EC-35 0630-0700	4.10
333 31	EC-35 0700-0800	4.80
334 32	EC-35 0800-0853TD	4.40

Eduin O. Post
for Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL. (303) 424-7718

REPORT OF ANALYSIS

EC-36

JOB NO. DOH 093

June 15, 1982

Molycorp, Inc.
Attn: N. Dimick
Exploration Division
P.O. Box 37
Louviers, Colorado 80131

Analysis of 34 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
335 1	EC-36/0690-0800	3.80
2	EC-36/0800-0900	4.70
3	EC-36/0900-1000	3.20
4	EC-36/1000-1100	3.10
5	EC-36/1100-1200	3.70
6	EC-36/1200-1300	4.70
7	EC-36/1300-1400	2.90
8	EC-36/1400-1500	1.90
343 9	EC-36/1500-1555 T.D.	1.90
10	EC-37/0790-0900	5.00
11	EC-37/0900-1000	4.50
12	EC-37/1000-1100	5.40
13	EC-37/1100-1200	5.30
14	EC-37/1200-1300	2.90
15	EC-37/1300-1400	3.70
16	EC-37/1400-1501 T.D.	2.70
17	EC-38/0760-0800	6.20
18	EC-38/0800-0900	4.70
19	EC-38 0900-1000	4.80
20	EC-38/1000-1100	3.60
21	EC-38/1100-1200	3.10
22	EC-38/1200-1300	4.50
23	EC-38/1300-1400	3.70
24	EC-38/1400-1500	2.50
25	EC-38/1500-1600	2.80

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

EC-37

JOB NO. DOH 093

June 15, 1982

Molycorp, Inc.
Attn: N. Dimick
Exploration Division
P.O. Box 37
Louviers, Colorado 80131

Analysis of 34 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-36/0690-0800	3.80
2	EC-36/0800-0900	4.70
3	EC-36/0900-1000	3.20
4	EC-36/1000-1100	3.10
5	EC-36/1100-1200	3.70
6	EC-36/1200-1300	4.70
7	EC-36/1300-1400	2.90
8	EC-36/1400-1500	1.90
9	EC-36/1500-1555 T.D.	1.90
344 10	EC-37/0790-0900	5.00
11	EC-37/0900-1000	4.50
12	EC-37/1000-1100	5.40
13	EC-37/1100-1200	5.30
14	EC-37/1200-1300	2.90
15	EC-37/1300-1400	3.70
350 16	EC-37/1400-1501 T.D.	2.70
17	EC-38/0760-0800	6.20
18	EC-38/0800-0900	4.70
19	EC-38/0900-1000	4.80
20	EC-38/1000-1100	3.60
21	EC-38/1100-1200	3.10
22	EC-38/1200-1300	4.50
23	EC-38/1300-1400	3.70
24	EC-38/1400-1500	2.50
25	EC-38/1500-1600	2.80

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL. (303) 424-7718

REPORT OF ANALYSIS

EC-38

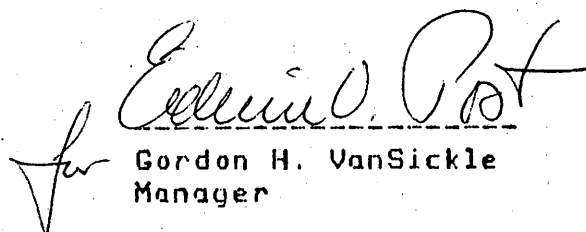
JOB NO. DOH 093
June 15, 1982

Molycorp, Inc.
Attn: N. Dimick
Exploration Division
P.O. Box 37
Louviers, Colorado 80131

Analysis of 34 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-36/0690-0800	3.80
2	EC-36/0800-0900	4.70
3	EC-36/0900-1000	3.20
4	EC-36/1000-1100	3.10
5	EC-36/1100-1200	3.70
6	EC-36/1200-1300	4.70
7	EC-36/1300-1400	2.90
8	EC-36/1400-1500	1.90
9	EC-36/1500-1555 T.D.	1.90
10	EC-37/0790-0900	5.00
11	EC-37/0900-1000	4.50
12	EC-37/1000-1100	5.40
13	EC-37/1100-1200	5.30
14	EC-37/1200-1300	2.90
15	EC-37/1300-1400	3.70
16	EC-37/1400-1501 T.D.	2.70
35 / 17	EC-38/0760-0800	6.20
18	EC-38/0800-0900	4.70
19	EC-38/0900-1000	4.80
20	EC-38/1000-1100	3.60
21	EC-38/1100-1200	3.10
22	EC-38/1200-1300	4.50
23	EC-38/1300-1400	3.70
24	EC-38/1400-1500	2.50
25	EC-38/1500-1600	2.80

ITEM	SAMPLE NUMBER	P205 (%)
26	EC-38/1600-1700	5.20
27	EC-38/1700-1800	3.60
28	EC-38/1800-1900	4.80
29	EC-38/1900-2000	5.20
30	EC-38/2000-2100	5.10
31	EC-38/2100-2200	3.90
32	EC-38/2200-2300	3.90
33	EC-38/2300-2400	5.20
368 34	EC-38/2400-2490 T.D.	3.70


Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

to D. Shover

JOB NO. DOH 102

August 12, 1982

EC-39

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 17 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
369 1	EC-39 0780-0900	3.7
2	EC-39 0900-1000	3.7
3	EC-39 1000-1100	3.7
4	EC-39 1100-1200	2.9
5	EC-39 1200-1300	2.8
6	EC-39 1300-1400	3.8
7	EC-39 1400-1500	4.2
8	EC-39 1500-1610	4.7
9	EC-39 1610-1700	4.0
10	EC-39 1700-1800	3.5
11	EC-39 1800-1900	3.1
12	EC-39 1900-2000	3.0
13	EC-39 2000-2100	2.6
14	EC-39 2100-2200	3.3
15	EC-39 2200-2300	3.6
16	EC-39 2300-2400	4.8
385 17	EC-39 2400-2482TD	4.2

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

Push to Dick

EC-40

JOB NO. DOH 103
August 18, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 19 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
386 1	EC-40 660-700	2.9
2	EC-40 700-800	4.4
3	EC-40 800-900	3.4
4	EC-40 900-1000	6.0
5	EC-40 1000-1100	3.5
6	EC-40 1100-1200	3.6
7	EC-40 1200-1300	2.9
8	EC-40 1300-1400	3.9
9	EC-40 1400-1500	3.6
10	EC-40 1500-1600	6.5
11	EC-40 1600-1700	1.9
12	EC-40 1700-1800	2.8
13	EC-40 1800-1900	2.5
14	EC-40 1900-2000	3.4
15	EC-40 2000-2100	2.7
16	EC-40 2100-2200	3.1
17	EC-40 2200-2300	2.2
18	EC-40 2300-2400	3.1
404 19	EC-40 2400-2483TD	3.1

cc: Ray Reynolds

Gordon H. VanSickle
Gordon H. VanSickle
Manager

to order

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

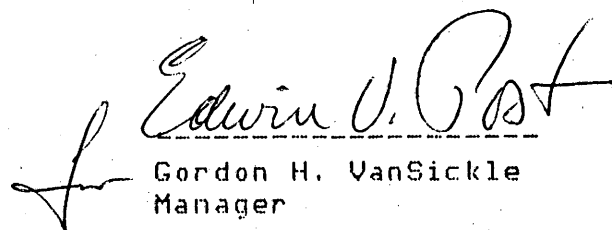
EC-41

JOB NO. DOH 104
August 18, 1982

Molycorp, Inc.
Attn: Nancy Dimick, Geo. Tech.
Exploration Division
P.O. Box 37
Louviers, Colorado 80131

Analysis of 13 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
405 1	EC-41 0750-0800	3.0
2	EC-41 0800-0900	5.8
3	EC-41 0900-1000	4.5
4	EC-41 1000-1100	3.2
5	EC-41 1100-1200	2.5
6	EC-41 1200-1300	3.8
7	EC-41 1300-1400	2.7
8	EC-41 1400-1500	2.3
9	EC-41 1500-1600	2.7
10	EC-41 1600-1700	3.3
11	EC-41 1700-1800	3.3
12	EC-41 1800-1900	4.3
417 13	EC-41 1900-2015 T.D.	3.4


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

to Dick
RECEIVED

OCT - 7 1982

MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 110
October 6, 1982

EC-42

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
418 1	EC-42/700-800	2.7
2	EC-42/800-900	2.6
3	EC-42/900-1000	3.5
4	EC-42/1000-1100	3.3
5	EC-42/1100-1200	3.3
6	EC-42/1200-1310	4.2
7	EC-42/1310-1400	4.1
8	EC-42A/1400-1500	3.4
9	EC-42A/1500-1600	4.5
10	EC-42A/1600-1700	3.5
11	EC-42A/1700-1800	4.4
12	EC-42A/1800-1900	1.8
13	EC-42A/1900-2000	2.4
14	EC-42A/2000-2100	3.2
15	EC-42A/2100-2200	1.8
16	EC-42A/2200-2300	2.8
17	EC-42A/2300-2400	2.9
435 18	EC-42A/2400-2504T.D.	4.1

cc: ✓ Ray Reynolds

Gordon H. VanSickle
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 189

August 10, 1983

Molycorp, Inc.

Attn: Nancy Dimick

Box 37

Louviers, Colorado 80131

Analysis of 7 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-43 835-900	2.3 *
2	EC-43 900-1000	1.3
3	EC-43 1000-1100	2.0
4	EC-43 1100-1200	2.2
5	EC-43 1200-1300	2.2
6	EC-43 1300-1400	1.7
7	EC-43 1400-1504 TD	2.2

ITEM	SAMPLE NUMBER	Y (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)	REO % ($\frac{La+Ce+Nd}{10^4}$)
1	EC-43 835-900	45.	950.	1500.	290.	.3205
2	EC-43 900-1000	40.	1300.	2400.	590.	.5019
3	EC-43 1000-1100	35.	1500.	2500.	480.	.5241
4	EC-43 1100-1200	40.	960.	1500.	280.	.3205
5	EC-43 1200-1300	40.	630.	1100.	280.	.2357
6	EC-43 1300-1400	30.	600.	1000.	240.	.2852
7	EC-43 1400-1504 TD	40.	320.	610.	150.	.1263

cc's: Will Cook, Englewood
 ✓ Ray Reynolds, Englewood

Gordon H. VanSickle
 Gordon H. VanSickle
 Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

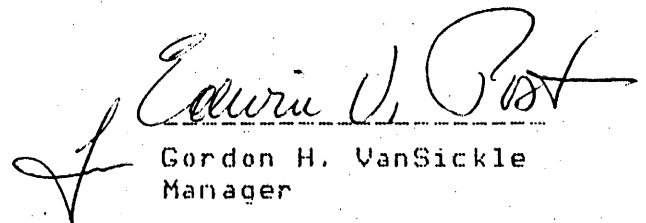
JOB NO. DOH 113
October 5, 1982

EC-43

Molycorp, Inc.
Attn: Nancy Dimick, Geo. Tech.
Box 37
Louviers, Colorado 80131

Analysis of 4 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-43/510-600	2.6
2	EC-43/600-700	4.4
3	EC-43/700-800	3.8
4	EC-43/800-835 TD	3.5 *


Gordon H. VanSickle
Manager

For 800-900 use 2.7

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

EC-44

JOB NO. DOH 119
October 28, 1982

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 21 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
<i>446</i> 1	EC 44/610-700	2.3
2	EC 44/700-800	4.3
3	EC 44/800-900	2.6
4	EC 44/900-1000	4.6
5	EC 44/1000-1100	6.9
6	EC 44/1100-1200	4.5
7	EC 44/1200-1310	2.0
8	EC 44/1310-1400	3.3
9	EC 44/1400-1500	2.5
10	EC 44/1500-1600	3.3
11	EC 44/1600-1700	2.6
12	EC 44/1700-1800	2.0
13	EC 44/1800-1900	1.9
14	EC 44/1900-2000	3.9
15	EC 44/2000-2100	2.1
16	EC 44/2100-2200	3.1
17	EC 44/2200-2300	3.4
18	EC 44/2300-2400	4.7
<i>464</i> 19	EC 44/2400-2500 T.D.	4.2
20	EC 46/700-800	4.4
21	EC 46/800-855 T.D.	4.3

cc: Ray Reynolds

Gordon H. VanSickle
Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718.

REPORT OF ANALYSIS

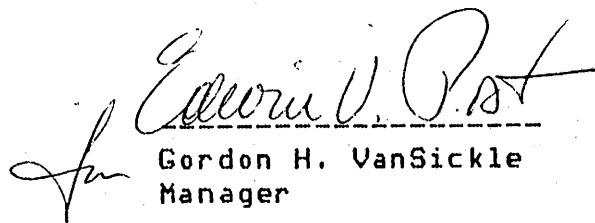
EC-45

JOB NO. DOH 118
October 28, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 3 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
468 1	EC-45 595-700	5.2
2	EC-45 700-800	5.2
3	EC-45 800-835T.D.	5.0


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

EC-46

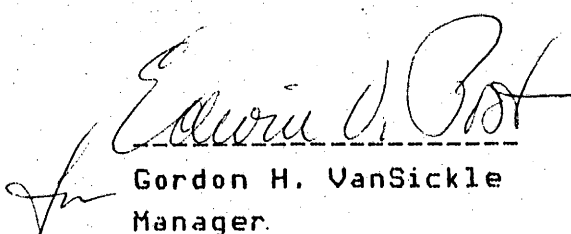
JOB NO. DOH 119
October 28, 1982

Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 21 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
1	EC 44/610-700	2.3
2	EC 44/700-800	4.3
3	EC 44/800-900	2.6
4	EC 44/900-1000	4.6
5	EC 44/1000-1100	6.9
6	EC 44/1100-1200	4.5
7	EC 44/1200-1310	2.0
8	EC 44/1310-1400	3.3
9	EC 44/1400-1500	2.5
10	EC 44/1500-1600	3.3
11	EC 44/1600-1700	2.6
12	EC 44/1700-1800	2.0
13	EC 44/1800-1900	1.9
14	EC 44/1900-2000	3.9
15	EC 44/2000-2100	2.1
16	EC 44/2100-2200	3.1
17	EC 44/2200-2300	3.4
18	EC 44/2300-2400	4.7
19	EC 44/2400-2500 T.D.	4.2
468 20	EC 46/700-800	4.4
21	EC 46/800-855 T.D.	4.3

cc: Ray Reynolds


Gordon H. VanSickle
Manager.

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REPORT OF ANALYSIS

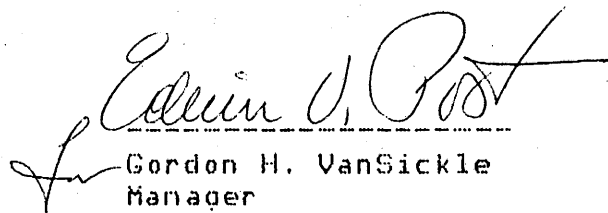
EC-47

JOB NO. DOH 126
November 19, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 10 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
<i>470</i> 1	EC-47/570-600	4.9
2	EC-47/600-700	2.4
3	EC-47/700-800	3.6
4	EC-47/800-900	2.7
5	EC-47/900-1000	2.3
6	EC-47/1000-1100	2.3
7	EC-47/1100-1200	2.6
8	EC-47/1200-1300	2.4
9	EC-47/1300-1400	1.8
<i>479</i> 10	EC-47/1400-1501 T.D.	1.7


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

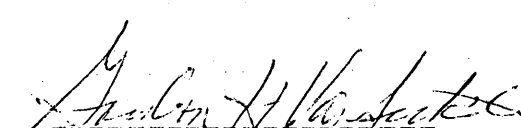
EC-48

JOB NO. DOH 132
December 30, 1982

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 18 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)
480 1	EC-48 640-700	2.10
2	EC-48 700-800	3.20
3	EC-48 800-900	3.10
4	EC-48 900-1000	5.00
5	EC-48 1000-1100	3.90
6	EC-48 1100-1200	4.00
7	EC-48 1200-1300	2.70
8	EC-48 1300-1400	2.90
9	EC-48 1400-1500	3.30
10	EC-48 1500-1600	4.00
11	EC-48 1600-1700	3.40
12	EC-48 1700-1800	3.20
13	EC-48 1800-1900	2.80
14	EC-48 1900-2000	3.50
15	EC-48 2000-2100	3.60
16	EC-48 2100-2200	2.70
17	EC-48 2200-2300	3.70
498 18	EC-48 2300-2440T.D.	3.50


Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

R. Sherer
Full
EC-49
EC-49

JOB NO. DOH 186
August 3, 1983

Molycorp, Inc.
Attn: N. Dimick
Box 37
Louviers, Colorado 80131

Analysis of 3 Pulp Samples

-----		La	Y	Ce	Nd	
ITEM SAMPLE NUMBER		(ppm)	(ppm)	(ppm)	(ppm)	

499	1	EC-49/730-800	580.	150.	1300.	460.
	2	EC-49/800-900	470.	470.	1300.	590.
501	3	EC-49/900-1025TD	270.	120.	640.	640.
						<u>2737</u>
						<u>2761</u>
						<u>1813</u>

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc's: W. Cook, Englewood
✓ R. Reynolds, Englewood

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

JOB NO. DOH 183

July 29, 1983

EC-50

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 22 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	La (ppm)	Y (ppm)	Ce (ppm)	Nd (ppm)
502	1 EC-50 700-800	3.4	610.	90.	1650.	680.
	2 EC-50 800-900	5.1	355.	210.	1250.	355.
	3 EC-50 900-1000	3.3	180.	85.	435.	200.
	4 EC-50 1000-1100	2.9	175.	70.	395.	160.
	5 EC-50 1100-1200	3.8	355.	80.	760.	240.
216 EC-50	6 EC-50 1200-1300	3.0	215.	45.	510.	155.
	7 EC-50 1300-1400	3.8	130.	45.	320.	120.
	8 EC-50 1400-1500	4.9	170.	110.	520.	280.
	9 EC-50 1500-1600	6.2	165.	120.	405.	205.
	10 EC-50 1600-1700	3.8	165.	50.	400.	200.
	11 EC-50 1700-1800	4.3	210.	60.	530.	245.
	12 EC-50 1800-1900	5.2	195.	145.	480.	240.
	13 EC-50 1900-2002 TD	3.7	165.	45.	435.	235.
515	14 EC-51 725.5-800	3.8	145.	65.	435.	160.
	15 EC-51 800-900	3.5	95.	60.	240.	80.
EC-51	16 EC-51 900-1000	3.1	70.	55.	200.	80.
	17 EC-51 1000-1100	4.2	205.	140.	510.	195.
	18 EC-51 1100-1200	4.6	185.	200.	360.	200.
	19 EC-51 1200-1300	2.9	175.	140.	435.	195.
	20 EC-51 1300-1400	2.8	195.	115.	445.	200.
	21 EC-51 1400-1500	3.0	225.	150.	520.	280.
	22 EC-51 1500-1544 TD	1.8	470.	105.	1100.	470.

cc's: ✓ Will Cook, Englewood
Ray Reynolds, Englewood

Eamon V. Post
for Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE. • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 183

July 29, 1983

EC-51

MolyCorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 22 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	La (ppm)	Y (ppm)	Ce (ppm)	Nd (ppm)	
1	EC-50 700-800	3.4	610.	90.	1650.	680.	3439
2	EC-50 800-900	5.1	355.	210.	1250.	355.	2293
3	EC-50 900-1000	3.3	180.	85.	435.	200.	953
4	EC-50 1000-1100	2.9	175.	70.	395.	160.	854
5	EC-50 1100-1200	3.8	355.	80.	760.	240.	1585
6	EC-50 1200-1300	3.0	215.	45.	510.	155.	1029
7	EC-50 1300-1400	3.8	130.	45.	320.	120.	668
8	EC-50 1400-1500	4.9	170.	110.	520.	280.	1135
9	EC-50 1500-1600	6.2	165.	120.	405.	205.	907
10	EC-50 1600-1700	3.8	165.	50.	400.	200.	895
11	EC-50 1700-1800	4.3	210.	60.	530.	245.	1152
12	EC-50 1800-1900	5.2	195.	145.	480.	240.	1071
13	EC-50 1900-2002 TD	3.7	165.	45.	435.	235.	977
14	EC-51 725.5-800	3.8	145.	65.	435.	160.	866
15	EC-51 800-900	3.5	95.	60.	240.	80.	486
16	EC-51 900-1000	3.1	70.	55.	200.	80.	440
17	EC-51 1000-1100	4.2	205.	140.	510.	195.	1065
18	EC-51 1100-1200	4.6	185.	200.	360.	200.	872
19	EC-51 1200-1300	2.9	175.	140.	435.	195.	942
20	EC-51 1300-1400	2.8	195.	115.	445.	200.	983
21	EC-51 1400-1500	3.0	225.	150.	520.	280.	1199
22	EC-51 1500-1544 TD	1.8	470.	105.	1100.	470.	2387

cc's: ✓ Will Cook, Englewood
Ray Reynolds, Englewood

Gordon H. VanSickle
Manager

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

JOB NO. DOH 191
August 10, 1983

EC-52

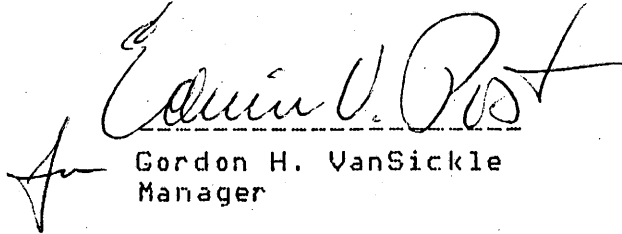
Molycorp, Inc.
Attn: Nancy Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 3 Pulp Samples

ITEM	SAMPLE NUMBER	Ce (ppm)	La (ppm)	Nd (ppm)	Y (ppm)
524 1	EC-52/700-800	660.	320.	360.	95.
2	EC-52/800-900	650.	320.	290.	85.
3	EC-52/900-950 TD	550.	280.	230.	70.

1568
1474
1240

ITEM	SAMPLE NUMBER	P205 (%)
1	EC-52/700-800	5.7
2	EC-52/800-900	5.5
3	EC-52/900-950 TD	4.0


Gordon H. VanSickle
Manager

cc's: ✓ Will Cook, Englewood
Ray Reynolds, Englewood

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REPORT OF ANALYSIS

MOLYCORP, INC.
ENGLEWOOD, CO.

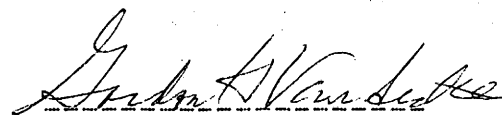
JOB NO. DOH 198,
August 24, 1983

EC-53

Molycorp, Inc.
Attn: N. Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 6 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	Y (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)	
527 1	EC-53/0600-0700	1.30	50.	1200.	2200.	730.	4832
2	EC-53/0700-0800	1.80	70.	2300.	4200.	1250.	9068
3	EC-53/0800-0900	1.40	50.	630.	1500.	660.	3264
4	EC-53/0900-1000	2.80	80.	260.	700.	330.	1509
5	EC-53/1000-1100	3.10	75.	445.	1100.	485.	2375
6	EC-53/1100-1199 T.D.	1.20	50.	485.	1150.	445.	2434



Gordon H. VanSickle
Manager

cc: Will Cook, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

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JOB NO. DOH 200
August 24, 1983

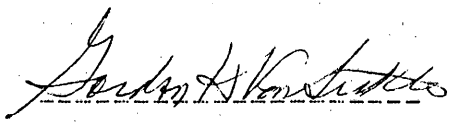
EC-54

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

MOLYCORP, INC.
ENGLEWOOD, CO.

Analysis of 8 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	Y (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)	
533 1	EC-54 690-800	4.7	110.	175.	395.	120.	807
2	EC-54 800-900	3.0	65.	175.	365.	80.	725
3	EC-54 900-1000	3.4	100.	310.	590.	215.	1305
4	EC-54 1000-1100	4.8	115.	320.	620.	235.	1375
5	EC-54 1100-1200	3.0	95.	280.	560.	100.	1160
6	EC-54 1200-1300	3.0	90.	215.	445.	165.	965
7	EC-54 1300-1400	3.6	60.	200.	390.	155.	872
8	EC-54 1400-1524T.D.	4.0	90.	200.	445.	140.	918


Gordon H. VanSickle
Manager

cc: Will Cook, Englewood
Ray Reynolds, Englewood

SKYLINE LABS, INC.

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MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 209

September 21, 1983

EC-55

Molycorp, Inc.
Attn: N. Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 9 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	La (ppm)	Ce (ppm)	Y (ppm)	Nd (ppm)
541 1	EC-55/0730-0800	1.7	780.	1800.	3674 70.	560. <u>2843</u>
2	EC-55/0800-0900	2.1	2100.	4400.	9360 120.	1500. <u>7043</u>
3	EC-55/0900-1000	2.0	2000.	4300.	9009 120.	1400. <u>6889</u>
4	EC-55/1000-1100	1.5	2200.	4900.	10296 120.	1700. <u>9862</u>
5	EC-55/1100-1200	3.2	1900.	4400.	8775 85.	1200. <u> </u>
6	EC-55/1200-1300	3.2	1600.	3700.	7371 80.	1000. <u> </u>
7	EC-55/1300-1425 T.D.	3.7	1200.	2700.	5499 70.	800. <u> </u>
8	EC-56/0630-0700	2.2	1100.	2100.	4446 100.	600. <u> </u>
9	EC-56/0700-0825 T.D.	2.2	920.	1900.	3931 95.	540. <u> </u>

Gordon H. VanSickle
Manager

cc's: ✓ Ray Reynolds, Englewood
Will Cook, Englewood

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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✓ EC-55
EC-56
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SEP 23 1983

MOLYCORP, INC.
ENGLEWOOD, CO.

JOB NO. DOH 209

September 21, 1983

EC-56

Molycorp, Inc.
Attn: N. Dimick
P.O. Box 37
Louviers, Colorado 80131

Analysis of 9 Pulp Samples

ITEM	SAMPLE NUMBER	P205 (%)	La (ppm)	Ce (ppm)	Y (ppm)	Nd (ppm)
1	EC-55/0730-0800	1.7	780.	1800.	70.	560.
2	EC-55/0800-0900	2.1	2100.	4400.	120.	1500.
3	EC-55/0900-1000	2.0	2000.	4300.	120.	1400.
4	EC-55/1000-1100	1.5	2200.	4900.	120.	1700.
5	EC-55/1100-1200	3.2	1900.	4400.	85.	1200.
6	EC-55/1200-1300	3.2	1600.	3700.	80.	1000.
7	EC-55/1300-1425 T.D.	3.7	1200.	2700.	70.	800.
548 8	EC-56/0630-0700	2.2	1100.	2100.	100.	600.
9	EC-56/0700-0825 T.D.	2.2	920.	1900.	95.	540.

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc's: ✓ Ray Reynolds, Englewood
Will Cook, Englewood

SKYLINE LABS, INC.

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OCT 13 1983

MOLYCORP, INC.

ENGLEWOOD, CO.

JOB NO. DOH 214

October 11, 1983

EC-57

Molycorp, Inc.
Attn: Nancy Dimick
Box 37
Louviers, Colorado 80131

Analysis of 4 Pulp Samples

ITEM	SAMPLENUMBER	Y (ppm)	La (ppm)	Ce (ppm)	Nd (ppm)	
1	EC-57 652-700	100.	75.	300.	220.	<u>696</u>

ITEM	SAMPLE NUMBER	P205 (%)
500 2	EC-57 700-800	4.3
3	EC-57 800-900	3.7
4	EC-57 900-1004 T.D.	3.0

Gordon H. VanSickle

Gordon H. VanSickle
Manager

cc's: Ray Reynolds, Englewood
W. Cook, Englewood

ELK CREEK CARBONATITE REE AND PHOSPHATE DATA (SKYLINE LABS)

DISCLAIMER

This document contains chemical analyses of samples from the Elk Creek carbonatite deposit (ECC) taken directly from the files of Molycorp, Inc. in Mountain Pass California. The analyses were performed at Skyline Labs, Inc. of Wheat Ridge, Colorado in the early to middle 1980s using unspecified methods.

These data have not undergone any additional processing or assessment of any kind, and therefore the Conservation and Survey Division, School of Natural Resources, University of Nebraska-Lincoln assumes no responsibility with respect to their accuracy or application.

OVERVIEW OF ANALYTICAL DATA

Elemental analyses are presented herein as parts per million (ppm); analyses were performed for multiple elements. Analytical values for the rare-earth elements (REE) lanthanum (La), cerium (Ce), and neodymium (Nd) may be of particular interest to property owners, investors, developers, and the geological community. Included herein are values for phosphate content, represented as % P₂O₅.

Analyses are identified as sampled intervals (in feet) from a given drill hole. The analysis "EC - 18 700-800" refers to a sample removed from the depth interval 700 ft to 800 ft from drill hole 18. A slash (/) may appear in some entries between the drill hole number and the footage, as in the analysis labeled "EC-10/1000-1100". The abbreviation "T.D.", as used in some analysis identifiers, refers to the total depth drilled in a given drill hole (i.e., the greatest depth attained).

DATA INCLUDED IN THIS REPORT

Data in this file were produced from the following cores drilled through the ECC:

EC-70
EC-71
EC-72
EC-72A
EC-73
EC-74
EC-75
EC-76
EC-77
EC-78
EC-79
EC-80
EC-81

EC-82
EC-83
EC-84
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EC-95
EC-96
EC-97
EC-98
EC-99
EC-100
EC-101
EC-102
EC-103
EC-104
EC-105

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

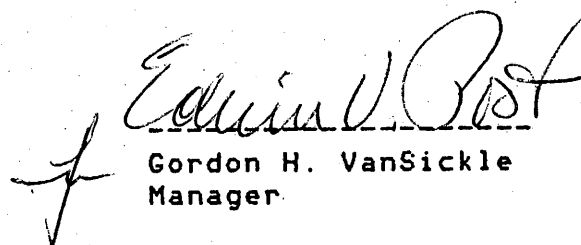
JOB NO. DOH 379
October 15, 1984

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 8 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	P205 (%)	Na (%)	Ti (%)
1	EC-70 600-700	570.	1100.	440.	6.4	.09	.81
2	EC-70 700-800	530.	870.	315.	4.3	.07	.30
3	EC-70 800-900	310.	540.	220.	4.3	.06	.34
4	EC-70 900-1000	425.	830.	235.	1.3	.10	.54
5	EC-71 610-700	1250.	2200.	730.	8.4	.15	.28
6	EC-71 700-800	1500.	2450.	750.	4.2	.09	.13
7	EC-71 800-900	1550.	2250.	630.	2.4	.14	.40
8	EC-71 900-1002	1300.	1800.	450.	2.2	.10	.26

ITEM	SAMPLE NUMBER	Zn (ppm)	Ba (ppm)	Th (ppm)	V (ppm)	U (ppm)
1	EC-70 600-700	150.	16500.	165.	70.	7.
2	EC-70 700-800	195.	3100.	110.	20.	8.
3	EC-70 800-900	150.	1400.	90.	40.	6.
4	EC-70 900-1000	125.	6250.	100.	125.	3.
5	EC-71 610-700	130.	15500.	115.	80.	22.
6	EC-71 700-800	160.	36500.	90.	35.	10.
7	EC-71 800-900	130.	30000.	65.	60.	7.
8	EC-71 900-1002	170.	12500.	35.	60.	9.


Gordon H. VanSickle
Manager

cc: ✓ Ray Reynolds

SKYLINE LABS, INC.

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REPORT OF ANALYSIS

JOB NO. DOH 385
October 31, 1984

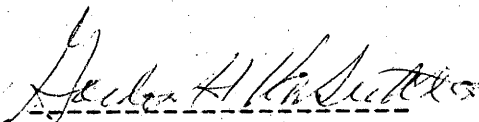
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 8 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Na (%)
1	EC-72: 680-832TD	285.	740.	400.	.82
2	EC-72A: 680-800	290.	630.	340.	.61
3	EC-72A: 800-900	355.	730.	295.	.56
4	EC-72A: 900-1000TD	310.	600.	275.	.58
5	EC-73: 620-700	3100.	4050.	840.	1.10
6	EC-73: 700-800	540.	740.	190.	1.90
7	EC-73: 800-900	180.	295.	125.	2.00
8	EC-73: 900-1000TD	230.	405.	135.	2.50

ITEM	SAMPLE NUMBER	Ti (%)	Ba (ppm)	P205 (%)
1	EC-72: 680-832TD	.54	12500.	.41
2	EC-72A: 680-800	.63	11000.	.53
3	EC-72A: 800-900	.44	7450.	.70
4	EC-72A: 900-1000TD	.43	10000.	.99
5	EC-73: 620-700	.32	2650.	.61
6	EC-73: 700-800	.40	2750.	.58
7	EC-73: 800-900	.69	2400.	.48
8	EC-73: 900-1000TD	.62	2400.	.62

ITEM	SAMPLE NUMBER	Th (ppm)	V (ppm)	Zn (ppm)	U (ppm)
1	EC-72: 680-832TD	70.	125.	140.	4.
2	EC-72A: 680-800	60.	135.	120.	4.
3	EC-72A: 800-900	50.	105.	240.	3.
4	EC-72A: 900-1000TD	60.	95.	200.	8.
5	EC-73: 620-700	160.	125.	70.	7.
6	EC-73: 700-800	75.	100.	75.	5.
7	EC-73: 800-900	125.	130.	135.	3.
8	EC-73: 900-1000TD	45.	130.	110.	4.


Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 388

November 26, 1984

Molycorp, Inc.

Attn: R. Sherer

P.O. Box 3976

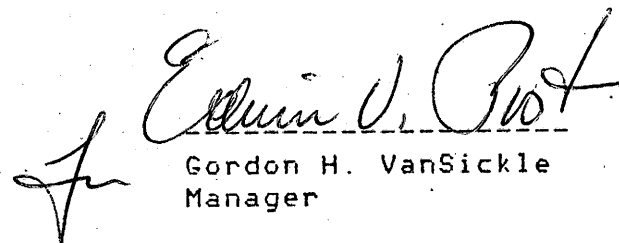
Englewood, Colorado 80155

Analysis of 7 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Ba (ppm)
1	EC-74: 720-800	790.	1450.	630.	47000.
2	EC-74: 800-900	245.	580.	200.	24500.
3	EC-74: 900-1002TD	375.	720.	175.	4800.
4	EC-75: 590-700	500.	770.	285.	10500.
5	EC-75: 700-800	280.	430.	85.	4350.
6	EC-75: 800-900	90.	195.	140.	3900.
7	EC-75: 900-1000TD	235.	395.	215.	3100.

ITEM	SAMPLE NUMBER	Na (%)	P2O5 (%)	Th (ppm)	V (ppm)
1	EC-74: 720-800	.12	4.2	185.	125.
2	EC-74: 800-900	.05	3.3	70.	30.
3	EC-74: 900-1002TD	.06	3.3	100.	20.
4	EC-75: 590-700	.09	5.1	265.	55.
5	EC-75: 700-800	.06	2.3	80.	35.
6	EC-75: 800-900	.06	2.4	175.	40.
7	EC-75: 900-1000TD	.09	2.6	100.	105.

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	U (ppm)
1	EC-74: 720-800	180.	1.40	12.
2	EC-74: 800-900	65.	.16	10.
3	EC-74: 900-1002TD	95.	.11	8.
4	EC-75: 590-700	125.	.54	11.
5	EC-75: 700-800	70.	.20	9.
6	EC-75: 800-900	75.	.27	8.
7	EC-75: 900-1000TD	165.	1.80	8.


Gordon H. VanSickle
Manager

cc: R. Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 393
December 3, 1984

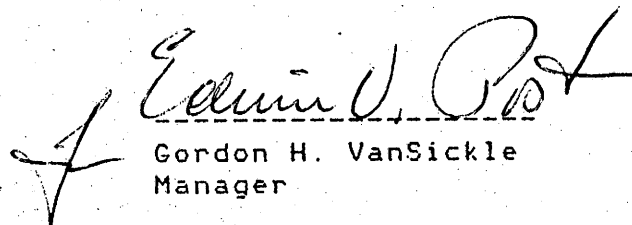
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 6 Pulp Samples

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Ba (ppm)
1	EC-76: 610-700	1200.	2250.	940.	37500.
2	EC-76: 700-800	860.	1600.	680.	28500.
3	EC-76: 800-900	540.	1100.	650.	60500.
4	EC-76: 900-992	570.	1050.	630.	116000.
5	EC-77: 760-900	270.	650.	345.	4350.
6	EC-77: 900-1002	210.	495.	230.	2550.

ITEM	SAMPLE NUMBER	P205 (%)	Th (ppm)	V (ppm)
1	EC-76: 610-700	8.4	<200.	245.
2	EC-76: 700-800	6.7	<200.	160.
3	EC-76: 800-900	2.9	<200.	90.
4	EC-76: 900-992	2.7	<200.	90.
5	EC-77: 760-900	6.5	<200.	75.
6	EC-77: 900-1002	3.7	<200.	95.

ITEM	SAMPLE NUMBER	Na (%)	Zn (ppm)	Ti (%)	U (ppm)
1	EC-76: 610-700	.22	125.	.56	11.
2	EC-76: 700-800	.16	155.	.74	7.
3	EC-76: 800-900	.09	170.	.34	4.
4	EC-76: 900-992	.09	115.	.34	4.
5	EC-77: 760-900	.08	75.	.25	13.
6	EC-77: 900-1002	.08	60.	.48	9.


Gordon H. VanSickle
Manager

cc: Ray Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 490

August 6, 1985

Molycorp, Inc.

Attn: W. Cook

P.O. Box 3976

Englewood, Colorado 80155

Analysis of 16 Pulps

Collar

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)
1205.44	1 EC-78 650-700	530.	910.	315.	<20. 1756
	2 EC-78 700-800	435.	830.	315.	30.
	3 EC-78 800-900	210.	465.	210.	65.
	4 EC-78 900-1000	320.	620.	240.	70.
	5 EC-79 580-700	230.	610.	270.	75.
	6 EC-79 700-800	240.	580.	260.	50.
	7 EC-79 800-900	200.	445.	200.	75.
	8 EC-79 900-1000	200.	440.	190.	95.
	9 EC-80 650-700	190.	405.	175.	<20.
	10 EC-80 700-800	255.	580.	270.	35.
	11 EC-80 800-900	250.	620.	270.	30.
	12 EC-80 900-986	365.	750.	305.	80.
	13 EC-81 600-700	960.	1800.	610.	<20.
	14 EC-81 700-800	465.	910.	350.	<20.
	15 EC-81 800-900	840.	1400.	440.	<20.
	16 EC-81 900-1000	980.	1550.	450.	<20.

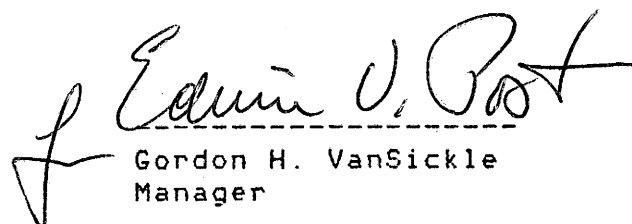
ITEM	SAMPLE NUMBER	Ti (%)	Na (%)	P205 (%)
1	EC-78 650-700	1.40	.17	1.8
2	EC-78 700-800	1.40	.12	3.3
3	EC-78 800-900	.52	.07	3.4
4	EC-78 900-1000	.87	.08	3.1
5	EC-79 580-700	.26	.11	5.1
6	EC-79 700-800	.23	.24	5.5
7	EC-79 800-900	.10	.07	5.1
8	EC-79 900-1000	.23	.08	4.7
9	EC-80 650-700	.27	.14	2.8
10	EC-80 700-800	.26	.09	3.9
11	EC-80 800-900	.06	.08	5.5
12	EC-80 900-986	.29	.09	4.5
13	EC-81 600-700	.30	.19	2.0
14	EC-81 700-800	.25	.20	1.5
15	EC-81 800-900	.33	.18	1.7
16	EC-81 900-1000	.26	.25	1.8

JOB NO. DOH 490

August 6, 1985

PAGE 3

ITEM	SAMPLE NUMBER	Zn (ppm)	Ba (ppm)	V (ppm)	U (ppm)
1	EC-78 650-700	115.	11500.	165.	4.
2	EC-78 700-800	120.	7700.	190.	9.
3	EC-78 800-900	80.	7150.	90.	9.
4	EC-78 900-1000	105.	10500.	155.	9.
5	EC-79 580-700	150.	2750.	40.	3.
6	EC-79 700-800	120.	6950.	40.	12.
7	EC-79 800-900	90.	7600.	35.	13.
8	EC-79 900-1000	95.	3600.	55.	14.
9	EC-80 650-700	110.	3200.	50.	3.
10	EC-80 700-800	95.	3850.	55.	9.
11	EC-80 800-900	100.	4750.	35.	13.
12	EC-80 900-986	155.	16000.	50.	26.
13	EC-81 600-700	190.	7300.	80.	7.
14	EC-81 700-800	225.	5150.	55.	9.
15	EC-81 800-900	340.	8150.	65.	26.
16	EC-81 900-1000	510.	5400.	50.	18.


Gordon H. VanSickle
Manager

cc's: R. Sherer
R. Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 508
September 3, 1985

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 18 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)	Ti (%)
1	EC-82 660-800	1200.	1950.	640.	<20.	.82
2	EC-82 800-900	1600.	2950.	1100.	<20.	.92
3	EC-82 900-1002	1250.	1900.	600.	<20.	.75
4	EC-83 700-800	760.	1500.	630.	<20.	.94
5	EC-83 800-900	245.	560.	225.	<20.	.19
6	EC-83 900-1000	240.	560.	260.	<20.	.17
7	EC-84 583-700	1750.	3100.	1050.	175.	.41
8	EC-84 700-800	1900.	3300.	980.	<20.	.10
9	EC-84 800-900	1050.	1700.	550.	<20.	.19
10	EC-84 900-993	1000.	1700.	630.	<20.	.98
11	EC-85 546-600	425.	850.	405.	<20.	1.30
12	EC-85 600-700	600.	1250.	530.	<20.	1.40
13	EC-85 700-800	415.	830.	360.	<20.	.87
14	EC-85 800-900	620.	1250.	490.	<20.	.85
15	EC-85 900-1000	560.	1150.	485.	<20.	.49
16	EC-86 658-800	2100.	3850.	1150.	<20.	.23
17	EC-86 800-900	1250.	2150.	660.	<20.	.18
18	EC-86 900-1000	1300.	2150.	690.	<20.	.18

ITEM	SAMPLE NUMBER	Na (%)	P2O5 (%)	Zn (ppm)
1	EC-82 660-800	.46	1.10	90.
2	EC-82 800-900	.40	1.00	100.
3	EC-82 900-1002	.34	.98	90.
4	EC-83 700-800	.15	7.20	275.
5	EC-83 800-900	.06	5.20	80.
6	EC-83 900-1000	.07	6.50	90.
7	EC-84 583-700	.09	3.80	145.
8	EC-84 700-800	.10	4.00	130.
9	EC-84 800-900	.05	2.30	100.
10	EC-84 900-993	.10	6.30	190.
11	EC-85 546-600	.17	4.70	110.
12	EC-85 600-700	.14	4.10	185.
13	EC-85 700-800	.72	2.70	205.
14	EC-85 800-900	.39	2.20	185.
15	EC-85 900-1000	.20	2.90	245.
16	EC-86 658-800	.10	1.40	180.
17	EC-86 800-900	.05	2.80	205.
18	EC-86 900-1000	.09	2.70	440.

ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	U (ppm)
1	EC-82 660-800	1.10	215.	8.
2	EC-82 800-900	1.10	205.	10.
3	EC-82 900-1002	1.40	180.	11.
4	EC-83 700-800	2.30	170.	9.
5	EC-83 800-900	1.90	105.	11.
6	EC-83 900-1000	.23	80.	13.
7	EC-84 583-700	2.20	140.	9.
8	EC-84 700-800	2.40	95.	17.
9	EC-84 800-900	1.20	95.	11.
10	EC-84 900-993	1.10	195.	10.
11	EC-85 546-600	1.90	260.	11.
12	EC-85 600-700	1.20	220.	10.
13	EC-85 700-800	.65	150.	6.
14	EC-85 800-900	.96	140.	6.
15	EC-85 900-1000	.79	105.	15.
16	EC-86 658-800	2.20	75.	6.
17	EC-86 800-900	1.90	50.	10.
18	EC-86 900-1000	.88	35.	13.


Gordon H. VanSickle
Manager

cc's: W. Cook
R. Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 518
October 3, 1985

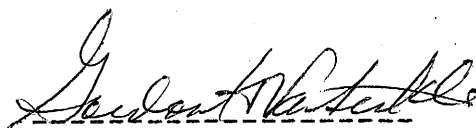
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 16 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)
1	EC-87 572-700	1900.	3350.	1250.	<20.
2	EC-87 700-800	960.	2000.	840.	<20.
3	EC-87 800-900	1050.	2150.	880.	<20.
4	EC-87 900-1004	2600.	4000.	1200.	<20.
5	EC-88 625-700	650.	1300.	570.	<20.
6	EC-88 700-800	255.	570.	255.	<20.
7	EC-88 800-900	260.	500.	220.	<20.
8	EC-88 900-1000	200.	440.	220.	<20.
9	EC-89 590-700	3200.	5200.	1650.	<20.
10	EC-89 700-800	1950.	3300.	1050.	<20.
11	EC-89 800-900	1650.	2800.	820.	<20.
12	EC-89 900-1000	910.	1700.	630.	<20.
13	EC-90 580-700	730.	1250.	435.	<20.
14	EC-90 700-800	750.	1250.	435.	<20.
15	EC-90 800-900	465.	880.	310.	<20.
16	EC-90 900-1002	550.	960.	355.	<20.

ITEM	SAMPLE NUMBER	Ti (ppm)	Na (%)	P2O5 (%)	Ba (ppm)
1	EC-87 572-700	2500.	.12	3.9	15500.
2	EC-87 700-800	4150.	.18	4.0	12500.
3	EC-87 800-900	3600.	.18	3.9	11000.
4	EC-87 900-1004	3700.	.16	3.5	14500.
5	EC-88 625-700	8450.	.12	8.5	7650.
6	EC-88 700-800	2250.	.06	2.9	3450.
7	EC-88 800-900	1900.	.05	2.9	26500.
8	EC-88 900-1000	2200.	.05	3.3	2750.
9	EC-89 590-700	2250.	.08	3.4	17500.
10	EC-89 700-800	1900.	.07	4.1	11500.
11	EC-89 800-900	3250.	.08	4.0	7700.
12	EC-89 900-1000	4250.	.08	3.3	7450.
13	EC-90 580-700	1100.	.08	3.8	4700.
14	EC-90 700-800	1900.	.07	2.1	4450.
15	EC-90 800-900	1350.	.07	2.3	4400.
16	EC-90 900-1002	1750.	.06	3.1	5100.

ITEM	SAMPLE NUMBER	V (ppm)	U (ppm)	Zn (ppm)
1	EC-87 572-700	130.	17.	220.
2	EC-87 700-800	150.	24.	260.
3	EC-87 800-900	165.	10.	195.
4	EC-87 900-1004	140.	9.	290.
5	EC-88 625-700	105.	10.	90.
6	EC-88 700-800	40.	4.	85.
7	EC-88 800-900	45.	3.	70.
8	EC-88 900-1000	30.	3.	55.
9	EC-89 590-700	85.	10.	230.
10	EC-89 700-800	80.	11.	165.
11	EC-89 800-900	100.	11.	180.
12	EC-89 900-1000	145.	9.	220.
13	EC-90 580-700	60.	9.	140.
14	EC-90 700-800	65.	4.	150.
15	EC-90 800-900	50.	5.	70.
16	EC-90 900-1002	50.	12.	70.



Gordon H. VanSickle
Manager

cc's: W. Cook
R. Reynolds

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 527
October 25, 1985

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 18 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)	Ti (ppm)
1	EC-91 0570-0700	1400.	2800.	1300.	240.	6400.
2	EC-91 0700-0800	3400.	5200.	1500.	85.	5000.
3	EC-91 0800-0900	2000.	3150.	890.	<20.	5550.
4	EC-91 0900-0972	1050.	1700.	560.	<20.	4400.
5	EC-92 0556-0600	1100.	2400.	980.	200.	6000.
6	EC-92 0600-0700	415.	770.	335.	40.	5950.
7	EC-92 0700-0800	320.	580.	260.	<20.	4800.
8	EC-92 0800-0900	320.	560.	240.	<20.	5400.
9	EC-92 0900-1000	355.	630.	240.	35.	5750.
✓ 10	EC-93 0490-0600	9900.	12000.	2200.	<20.	2400.
✓ 11	EC-93 0600-0700	13000.	14000.	2400.	<20.	940.
✓ 12	EC-93 0700-0800	10000.	12000.	2200.	<20.	2000.
✓ 13	EC-93 0800-0900	9550.	11000.	2000.	<20.	940.
✓ 14	EC-93 0900-1000	3550.	4700.	1400.	<20.	2150.
15	EC-94 0600-0700	1500.	2400.	700.	<20.	2200.
16	EC-94 0700-0800	520.	950.	395.	<20.	3950.
17	EC-94 0800-0900	880.	1450.	480.	80.	5200.
18	EC-94 0900-1000	540.	1000.	440.	95.	4600.

ITEM	SAMPLE NUMBER	Na (%)	P205 (%)	Zn (ppm)
1	EC-91 0570-0700	.16	7.20	160.
2	EC-91 0700-0800	.19	1.80	215.
3	EC-91 0800-0900	.11	1.70	185.
4	EC-91 0900-0972	.07	1.30	145.
5	EC-92 0556-0600	.20	6.50	160.
6	EC-92 0600-0700	.33	1.80	150.
7	EC-92 0700-0800	.59	1.30	90.
8	EC-92 0800-0900	.54	1.00	95.
9	EC-92 0900-1000	.49	.80	90.
10	EC-93 0490-0600	.08	1.80	255.
11	EC-93 0600-0700	.06	1.00	365.
12	EC-93 0700-0800	.06	.74	330.
13	EC-93 0800-0900	.08	1.80	325.
14	EC-93 0900-1000	.12	3.10	170.
15	EC-94 0600-0700	.13	4.40	100.
16	EC-94 0700-0800	.09	4.90	105.
17	EC-94 0800-0900	.09	2.60	145.
18	EC-94 0900-1000	.10	5.70	115.

ITEM	SAMPLE NUMBER	Ba (%)	V (ppm)	U (ppm)
1	EC-91 0570-0700	2.60	240.	13.
2	EC-91 0700-0800	7.10	140.	8.
3	EC-91 0800-0900	2.20	115.	7.
4	EC-91 0900-0972	.66	100.	9.
5	EC-92 0556-0600	1.00	165.	28.
6	EC-92 0600-0700	2.40	115.	9.
7	EC-92 0700-0800	2.30	140.	7.
8	EC-92 0800-0900	2.80	130.	4.
9	EC-92 0900-1000	2.90	180.	4.
10	EC-93 0490-0600	5.60	265.	7.
11	EC-93 0600-0700	4.40	190.	3.
12	EC-93 0700-0800	5.80	170.	3.
13	EC-93 0800-0900	3.10	175.	5.
14	EC-93 0900-1000	1.30	160.	5.
15	EC-94 0600-0700	2.50	95.	12.
16	EC-94 0700-0800	4.40	90.	7.
17	EC-94 0800-0900	1.60	115.	14.
18	EC-94 0900-1000	.83	95.	32.


Gordon H. VanSickle
Manager

cc's: W. Cook
✓ R. W. Reynolds

Eld Creek

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 531
October 22, 1985

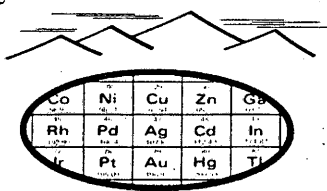
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 11 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)
1	EC-93 510-520	18500.	20000.	3350.
2	EC-93 590-600	15000.	16000.	2450.
3	EC-93 600-610	16500.	18000.	2500.
4	EC-93 610-620	15000.	16000.	2500.
5	EC-93 620-630	19000.	19000.	2950.
6	EC-93 630-640	15500.	16000.	2600.
7	EC-93 640-650	14000.	14500.	2200.
8	EC-93 700-710	9050.	10500.	2200.
9	EC-93 750-760	14500.	16500.	3000.
10	EC-93 800-810	11000.	14000.	3150.
11	EC-93 890-900	7600.	8200.	1450.

Gordon H. VanSickle
Gordon H. VanSickle
Manager

cc's: W. Cook
R. W. Reynolds



SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033

TEL.: (303) 424-7718

INVOICE

INVOICE NO. DOH 531
October 22, 1985

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

TERMS: NET 30 DAYS

Analysis of 11 Pulps

11 La @ \$	3.68*	\$	40.48
11 Ce @ \$	3.68*	\$	40.48
11 Nd @ \$	3.68*	\$	40.48

TOTAL \$ 121.44

* Multiple element discount

INVOICE COPY

Bill

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 550
December 3, 1985

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

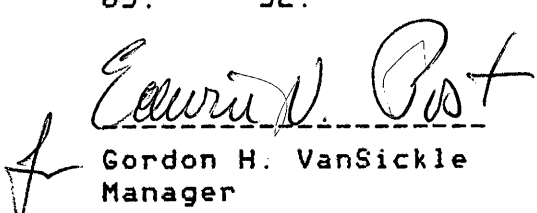
Analysis of 11 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)
1	EC-95 0670-0800	235.	470.	275.	60.
2	EC-95 0800-0900	200.	375.	215.	30.
3	EC-95 0900-1000	1200.	2000.	760.	30.
4	EC-96 0650-0700	980.	1900.	730.	145.
5	EC-96 0700-0800	640.	1050.	410.	<20.
6	EC-96 0800-0900	670.	1150.	435.	<20.
7	EC-96 0900-1003	470.	820.	370.	<20.
8	EC-97 0630-0700	540.	930.	445.	90.
9	EC-97 0700-0800	315.	540.	240.	<20.
10	EC-97 0800-0900	300.	520.	240.	45.
11	EC-97 0900-1000	185.	370.	195.	80.

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ITEM	SAMPLE NUMBER	Ti (ppm)	Na (%)	P2O5 (%)	Zn (ppm)
1	EC-95 0670-0800	3600.	.10	3.8	125.
2	EC-95 0800-0900	1500.	.06	2.7	125.
3	EC-95 0900-1000	4350.	.07	2.1	730.
4	EC-96 0650-0700	3550.	.20	3.7	300.
5	EC-96 0700-0800	8100.	.12	3.8	145.
6	EC-96 0800-0900	6650.	.12	3.4	360.
7	EC-96 0900-1003	10500.	.14	3.5	820.
8	EC-97 0630-0700	4350.	.30	4.6	115.
9	EC-97 0700-0800	3350.	.11	1.3	130.
10	EC-97 0800-0900	2150.	.10	2.3	115.
11	EC-97 0900-1000	3300.	.08	3.9	90.

ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	U (ppm)
1	EC-95 0670-0800	8000.	105.	10.
2	EC-95 0800-0900	4050.	55.	8.
3	EC-95 0900-1000	10000.	65.	12.
4	EC-96 0650-0700	15000.	185.	34.
5	EC-96 0700-0800	12500.	230.	14.
6	EC-96 0800-0900	4450.	200.	20.
7	EC-96 0900-1003	4350.	215.	20.
8	EC-97 0630-0700	10500.	160.	26.
9	EC-97 0700-0800	14500.	130.	12.
10	EC-97 0800-0900	8550.	65.	12.
11	EC-97 0900-1000	13500.	85.	32.


Gordon H. VanSickle
Manager

cc's: W. Cook
✓ R. Reynolds

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12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

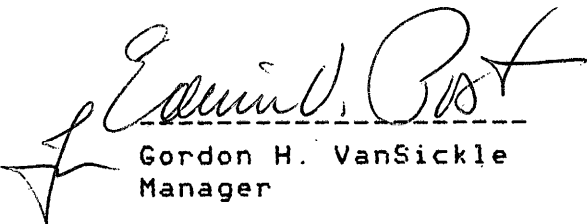
REPORT OF ANALYSISJOB NO. DOH 561
December 27, 1985Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 14 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)
1	EC-98 642.5-700	2000.	3400.	1150.	<20.
2	EC-98 700-800	2600.	4150.	1250.	<20.
3	EC-98 800-900	1450.	2800.	1100.	<20.
4	EC-98 900-1000	1800.	3150.	1150.	<20.
5	EC-99 625-700	190.	380.	195.	<20.
6	EC-99 700-800	175.	365.	190.	<20.
7	EC-99 800-900	185.	390.	200.	<20.
8	EC-99 900-1002	280.	620.	300.	<20.
9	EC-100 766-900	1850.	2600.	680.	35.
10	EC-100 900-1000	730.	1200.	415.	<20.
11	EC-101 570-700	660.	1200.	390.	<20.
12	EC-101 700-800	850.	1500.	445.	<20.
13	EC-101 800-900	1050.	1800.	540.	<20.
14	EC-101 900-1000	830.	1400.	425.	<20.

ITEM	SAMPLE NUMBER	Ti (ppm)	Na (%)	P205 (%)	Zn (ppm)
1	EC-98 642.5-700	4650.	.09	2.0	90.
2	EC-98 700-800	7050.	.08	2.3	285.
3	EC-98 800-900	7450.	.10	2.8	245.
4	EC-98 900-1000	4550.	.09	1.7	400.
5	EC-99 625-700	2050.	.14	2.9	80.
6	EC-99 700-800	920.	.47	2.6	105.
7	EC-99 800-900	275.	.07	3.5	65.
8	EC-99 900-1002	940.	.25	2.0	125.
9	EC-100 766-900	4150.	.06	3.4	115.
10	EC-100 900-1000	410.	.05	3.1	85.
11	EC-101 570-700	1300.	.06	1.3	125.
12	EC-101 700-800	810.	.05	2.2	215.
13	EC-101 800-900	590.	.05	1.8	135.
14	EC-101 900-1000	1850.	.05	1.7	115.

ITEM	SAMPLE NUMBER	Ba (ppm)	V (ppm)	U (ppm)
1	EC-98 642.5-700	12000.	160.	5.
2	EC-98 700-800	14000.	260.	10.
3	EC-98 800-900	15000.	245.	10.
4	EC-98 900-1000	13000.	235.	9.
5	EC-99 625-700	14500.	40.	7.
6	EC-99 700-800	2300.	30.	3.
7	EC-99 800-900	3250.	25.	6.
8	EC-99 900-1002	9250.	35.	3.
9	EC-100 766-900	10000.	95.	16.
10	EC-100 900-1000	8050.	30.	7.
11	EC-101 570-700	14000.	40.	10.
12	EC-101 700-800	6300.	30.	6.
13	EC-101 800-900	10000.	40.	4.
14	EC-101 900-1000	16500.	55.	4.


Gordon H. VanSickle
Manager

cc's: ☒ W. Cook
☒ R. Reynolds

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12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DOH 571

January 15, 1986

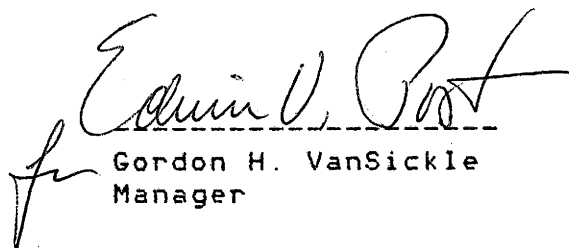
Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

Analysis of 14 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Ba (%)
1	EC-102 537-600	460.	900.	385.	1.15
2	EC-102 600-700	315.	610.	275.	5.75
3	EC-102 700-800	195.	370.	160.	3.20
4	EC-102 800-900	240.	455.	190.	4.35
5	EC-102 900-1001	375.	670.	260.	1.80
6	EC-103 610-700	690.	1500.	670.	2.05
7	EC-103 700-800	240.	560.	280.	1.55
8	EC-103 800-900	420.	780.	340.	2.05
9	EC-103 900-990	265.	590.	305.	.67
10	EC-104 540-600	800.	1350.	500.	1.95
11	EC-104 600-700	335.	690.	300.	1.35
12	EC-104 700-800	690.	1200.	415.	2.35
13	EC-104 800-900	780.	1250.	440.	1.75
14	EC-104 900-1001	2350.	3550.	920.	1.75

ITEM	SAMPLE NUMBER	Na (%)	P205 (%)	Th (ppm)	V (ppm)
1	EC-102 537-600	.27	5.7	100.	190.
2	EC-102 600-700	.19	3.2	95.	145.
3	EC-102 700-800	.22	1.1	65.	125.
4	EC-102 800-900	.33	1.3	70.	110.
5	EC-102 900-1001	.23	1.1	185.	120.
6	EC-103 610-700	.14	5.5	170.	100.
7	EC-103 700-800	.09	3.8	105.	55.
8	EC-103 800-900	.09	3.8	150.	75.
9	EC-103 900-990	.10	5.5	110.	70.
10	EC-104 540-600	.17	3.9	160.	150.
11	EC-104 600-700	.11	2.4	145.	85.
12	EC-104 700-800	.17	2.2	100.	95.
13	EC-104 800-900	.11	2.6	60.	125.
14	EC-104 900-1001	.16	2.6	55.	120.

ITEM	SAMPLE NUMBER	Zn (ppm)	Ti (%)	U (ppm)
1	EC-102 537-600	195.	.59	11.
2	EC-102 600-700	120.	.54	7.
3	EC-102 700-800	155.	.34	5.
4	EC-102 800-900	110.	.32	4.
5	EC-102 900-1001	160.	.47	5.
6	EC-103 610-700	110.	.22	14.
7	EC-103 700-800	100.	.07	22.
8	EC-103 800-900	100.	.20	12.
9	EC-103 900-990	80.	.32	7.
10	EC-104 540-600	150.	.65	6.
11	EC-104 600-700	120.	.26	3.
12	EC-104 700-800	150.	.24	5.
13	EC-104 800-900	205.	.44	7.
14	EC-104 900-1001	320.	.15	7.


Gordon H. VanSickle
Manager

cc's: W. Cook
✓J. Keim

File

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SPECIALISTS IN EXPLORATION GEOCHEMISTRY

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REPORT OF ANALYSIS

JOB NO. DOH 575
January 30, 1986

Molycorp, Inc.
Attn: R. Sherer
P.O. Box 3976
Englewood, Colorado 80155

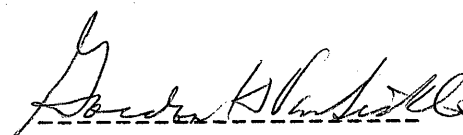
Analysis of 4 Pulps

ITEM	SAMPLE NUMBER	La (ppm)	Ce (ppm)	Nd (ppm)	Th (ppm)
1	EC-105 580-700	560.	1300.	660.	190.
2	EC-105 700-800	455.	890.	415.	110.
3	EC-105 800-900	275.	550.	295.	120.
4	EC-105 900-1000	315.	710.	335.	115.

ITEM	SAMPLE NUMBER	Na (%)	Ti (%)	P205 (%)
1	EC-105 580-700	.12	.26	7.2
2	EC-105 700-800	.08	.79	3.4
3	EC-105 800-900	.07	.17	4.0
4	EC-105 900-1000	.07	.19	2.7

JOB NO. DOH 575
January 30, 1986
PAGE 2

ITEM	SAMPLE NUMBER	Zn (ppm)	Ba (ppm)	V (ppm)	U (ppm)
1	EC-105 580-700	115.	14500.	95.	9.
2	EC-105 700-800	145.	11500.	185.	9.
3	EC-105 800-900	90.	5750.	75.	5.
4	EC-105 900-1000	85.	8150.	70.	4.


Gordon H. VanSickle
Manager

cc's: W. Cook
J. Keim