

CENTRO DE LABORATORIOS Y ENSAYOS. ITGE. LABORATORIO DE RAYOS X

 ANALISIS POR FLUORESCENCIA DE RAYOS X

Nombre del Informe.....BATOLITOS.HOJA 883-904. STL-3758

MUESTRA	%SiO2	%AL2O3	%FE2O3	%CAO	%TI02	%MNO	%K2O	%Na2O	%MGO	%PPC
18-36-LB-9502	67.87	16.06	3.117	2.050	0.420	0.052	3.750	4.408	1.244	0.06
18-36-LB-9516	71.05	14.99	2.357	1.729	0.282	0.047	3.437	3.882	1.011	1.07
18-35-LB-9021	72.58	13.91	2.587	0.671	0.190	0.052	5.028	3.680	0.257	1.00
18-35-LB-9030	75.97	12.73	1.200	0.558	0.094	0.021	4.735	4.004	0.148	0.51
18-35-LB-9040	70.87	14.54	2.752	1.769	0.380	0.052	3.864	3.942	0.913	0.06
18-36-LB-9504	71.52	13.98	2.608	1.087	0.312	0.039	4.720	4.031	0.771	0.80
18-36-LB-9518	68.74	15.82	2.938	1.926	0.401	0.050	3.450	4.570	1.150	0.79
18-36-LB-9531	67.37	16.05	3.526	1.863	0.486	0.057	3.806	4.260	1.380	1.00
18-35-LB-9023	75.18	13.77	0.531	0.334	0.028	0.028	5.135	4.360	0.007	0.50
18-35-LB-9031	76.20	12.91	1.117	0.381	0.088	0.019	4.808	3.559	0.183	0.70
18-35-LB-9058	73.21	15.01	1.179	0.835	0.128	0.026	4.032	4.219	0.408	0.80
18-36-LB-9509	71.71	14.72	2.324	1.108	0.315	0.039	4.797	3.532	0.658	0.60
18-36-LB-9521	71.77	14.72	2.390	1.144	0.327	0.031	4.533	3.559	0.847	0.50
18-36-LB-9532	69.19	15.41	2.991	1.820	0.418	0.048	3.813	3.720	1.584	0.85
18-35-LB-9003	73.34	14.53	1.521	0.581	0.140	0.051	4.066	3.747	0.296	1.40
18-35-LB-9024	54.22	16.59	8.242	5.495	1.345	0.122	2.647	3.343	6.048	1.70
18-35-LB-9035	70.25	14.83	3.062	1.627	0.506	0.037	4.528	3.343	0.837	0.80
18-35-LB-9059	71.73	14.69	2.353	0.923	0.336	0.031	4.890	3.303	0.703	0.93
18-36-LB-9510	74.55	14.21	1.245	0.414	0.096	0.018	4.405	3.505	0.232	1.14
" LB-9539	55.82	18.03	8.143	3.625	1.410	0.153	3.650	2.993	4.303	1.22
" LB-9538	69.03	15.63	3.053	1.855	0.424	0.049	3.859	3.653	1.422	0.85
18-35-LB-9004	71.41	14.81	2.437	0.947	0.343	0.029	4.907	3.262	0.734	0.91
" LB-9028	69.51	15.02	2.884	2.319	0.386	0.042	3.791	3.586	1.563	0.76
" LB-9037	71.82	14.19	2.638	1.598	0.357	0.044	4.031	3.559	0.929	0.70
18-36-LB-9512	72.38	14.61	2.153	0.866	0.274	0.037	4.719	3.330	0.662	0.77
" LB-9525	69.91	14.38	3.076	0.648	0.439	0.039	4.888	3.747	1.260	1.48
" LB-9559	71.69	14.01	2.380	0.640	0.371	0.040	5.100	3.882	0.809	0.95
18-35-LB-9020	75.97	13.19	0.690	0.458	0.070	0.012	4.837	4.098	0.140	0.50
" LB-9026	70.26	14.36	3.165	1.522	0.481	0.046	4.899	3.667	0.767	0.68
" LB-9038	69.95	14.96	2.976	2.345	0.409	0.043	3.844	3.761	0.977	0.61
18-36-LB-9514	69.93	15.40	2.658	2.482	0.346	0.045	2.748	4.570	0.940	0.74
" LB-9528	70.48	14.64	2.870	1.043	0.413	0.035	4.656	3.788	0.809	1.00
18-35-LB-9017	73.80	13.43	2.254	1.104	0.261	0.042	4.346	3.613	0.548	0.50
" LB-9029	76.50	12.68	1.387	0.288	0.105	0.038	4.589	3.518	0.188	0.67
" LB-9039	70.63	14.65	2.616	1.853	0.354	0.040	3.928	3.923	0.839	1.04
18-36-LB-9569	69.22	15.08	2.996	1.146	0.392	0.057	3.774	4.004	1.697	1.49
18-35-LB-9065	72.19	14.12	2.584	1.346	0.350	0.045	4.295	3.801	0.710	0.45
18-36-LB-9567	76.35	13.57	0.965	0.253	0.036	0.044	4.051	3.977	0.069	0.66
18-35-LB-9068	70.94	14.26	2.761	0.468	0.371	0.042	4.681	4.017	1.038	1.30
18-36-LB-9568	76.30	12.84	1.041	0.297	0.053	0.034	4.562	3.990	0.095	0.76
18-35-LB-9060	85.23	7.78	1.824	0.150	0.103	0.019	2.572	0.781	0.287	1.30



CENTRO DE LABORATORIOS

INSTITUTO TECNOLÓGICO GEOMINERO DE ESPAÑA

FECHA

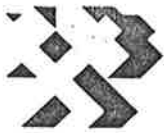
INFORME Hoja 883.904

STL 3758

ANÁLISIS POR FLUORESCENCIA DE RAYOS X

MUESTRA	% P ₂ O ₅	Rb	Sr	Zr	Sn	W	
LB-9502	0.210	176	377	135	—	—	
LB-9516	0.157	177	145	139	—	—	
LB-9568	0.029	465	7	48	24	6	
LB-9021	0.060	262	61	207	12	—	
LB-9030	0.032	254	38	96	—	—	
LB-9040	0.189	241	159	157	—	—	
LB-9504	0.158	228	83	158	8	—	
LB-9518	0.195	172	292	110	—	—	
LB-9531	0.254	208	310	132	—	—	
LB-9023	0.036	484	29	31	7	5	
LB-9031	0.031	310	20	70	15	—	
LB-9058	0.169	226	91	43	10	—	
LB-9509	0.212	269	98	135	7	—	
LB-9521	0.201	253	97	148	—	—	
LB-9532	0.206	178	325	105	—	—	
LB-9003	0.344	404	30	53	25	—	
LB-9024	0.457	112	657	185	10	—	





CENTRO DE LABORATORIOS

INSTITUTO TECNOLÓGICO GEOMINERO DE ESPAÑA

FECHA

INFORME Hoja 883:904

STL 3758

ANÁLISIS POR FLUORESCENCIA DE RAYOS X

MUESTRA	%P ₂₀₅	Rb	Sr	Zr	Sn	W	
LB-9035	0.208	181	164	282	-	-	
LB-9059	0.229	276	81	142	-	-	
LB-9510	0.193	317	34	46	23	7	
LB-9539	0.803	359	439	193	15	-	
LB-9538	0.224	183	323	106	-	-	
LB-9064	0.230	277	78	145	-	-	
LB-9028	0.192	164	370	110	-	-	
LB-9037	0.146	165	162	173	-	-	
LB-9512	0.219	298	78	120	8	-	
LB-9525	0.181	216	88	194	-	-	
LB-9559	0.154	254	94	183	8	-	
LB-9020	0.038	300	15	52	-	-	
LB-9026	0.179	216	140	219	-	-	
LB-9038	0.149	160	214	181	-	-	
LB-9514	0.149	120	228	175	-	-	
LB-9528	0.214	214	124	196	-	-	
LB-9017	0.118	262	80	129	6	-	
LB-9029	0.042	349	22	77	10	-	





CENTRO DE LABORATORIOS

INSTITUTO TECNOLÓGICO GEOMINERO DE ESPAÑA

FECHA

INFORME Hoja 883-904

STL 3758

ANÁLISIS POR FLUORESCENCIA DE RAYOS X

MUESTRA	%P ₂ O ₅	Rb	Sr	Zn	Su	W	
LB-9039	0.138	203	196	169	10	—	
LB-9569	0.200	154	223	102	—	—	
LB-9065	0.134	254	118	150	8	—	
LB-9567	0.033	596	15	50	15	14	
LB-9068	0.158	230	114	181	—	—	
LB-9060	0.030	270	13	74	130	977	



FECHA: Febrero 90

PROYECTO: Bafolito los Pedros

ANALISIS POR Plasma

MUESTRA	B	Zn	Sb	Ag	Pb	Cr	Ni	Ba	V	Be	Mo	As	Co	Y	Cd	F	Cu			
1	11	53	<20	<0.4	46	143	5	575	26	5	<4	<20	5	13	1	774	3			
2	13	45	"	"	20	156	9	448	19	3	"	"	6	8	1	542	4			
4	16	18	"	"	/	131	2	12	/	12	"	"	1	9	/	602	4			
5	8	75	"	"	25	146	7	474	1	7	"	"	2	27	/	575	6			
6	4	27	"	"	45	152	10	56	3	4	"	"	2	25	/	200	5			
7	10	60	"	"	25	137	5	471	20	4	"	"	5	17	1	1122	2			
8	9	47	"	"	32	160	4	334	14	3	"	"	5	20	1	800	2			
9	9	58	"	"	37	162	7	308	30	6	"	"	5	9	1	806	2			
10	8	40	"	"	41	149	16	404	36	7	"	"	6	13	1	787	1			
11	10	101	"	"	35	154	16	366	33	7	"	"	4	9	1	767	3			
12	4	12	"	"	51	141	6	75	2	22	"	"	/	15	/	200	4			
13	9	42	"	"	46	173	9	70	5	5	"	"	/	11	/	373	14			
14	11	47	"	"	53	136	3	150	6	7	"	492	1	6	/	738	6			
15	13	59	"	"	34	166	6	422	12	4	"	<20	3	12	1	1172	3			
16	14	56	"	"	33	162	5	395	20	5	"	"	2	11	/	1136	3			
17	11	40	"	"	36	152	9	377	30	10	"	"	5	11	1	732	1			
18	13	51	"	"	24	149	7	80	6	4	"	"	1	6	/	1575	4			

OBSERVACIONES:

EL JEFE DE LABORATORIO:

FECHA:

PROYECTO: Bafelito los Pedoches

ANÁLISIS POR Plasma

MOJISTRA	B	Zn	Sb	Ag	Pb	Cr	Ni	Ba	V	Be	Mo	As	Co	γ	Cd	F	Cu			
36	7	50	<20	<0.4	18	137	6	490	22	0	<4	<20	4	8	1	542	2			
37	7	59	"	"	33	169	6	494	18	3	"	"	3	16	1	842	3			
38	17	10	"	"	27	161	6	25	2	18	"	"	1	14	0	712	9			
39	8	43	"	"	31	170	5	220	13	4	"	"	2	19	1	930	1			
40	6	16	"	"	32	174	6	31	5	9	"	"	1	18	1	379	3			
41	8	56	"	"	27	139	4	619	18	5	"	"	4	20	2	673	3			
42	9	49	"	"	33	99	5	535	16	3	"	"	3	21	1	578	4			

SERVICIOS:

EL JEFE DE LABORATORIO:



CENTRO DE LABORATORIOS Y ENSAYOS ITGE.LABORATORIO DE RAYOS X

ANALISIS POR FLUORESCENCIA DE RAYOS X

NOMBRE DEL INFORME.....BATOLITO LOS PEDROCHES. STL-5300

MUESTRA	%SIO2	%AL2O3	%FE2O3	%CAO	%TIO2	%MNO	%K2O	%MGO	%NA2O	%P2O5	%PPC
CQ-9991	72.68	13.78	2.031	1.026	0.269	0.044	5.531	0.333	3.613	0.122	0.57
CQ-9992	73.38	12.92	2.422	0.971	0.316	0.045	5.000	0.586	3.613	0.101	0.64
CQ-9993	66.32	15.40	3.732	3.049	0.517	0.056	4.276	1.959	3.896	0.190	0.60
CQ-9994	66.14	15.69	3.874	3.192	0.554	0.058	3.901	2.018	3.855	0.165	0.55
CQ-9996	75.52	13.39	0.988	0.292	0.045	0.062	4.645	0.007	4.354	0.025	0.67
LB-9070	75.77	12.98	1.238	0.326	0.077	0.044	4.613	0.044	4.179	0.028	0.70
LB-9071	72.02	13.93	2.589	1.222	0.331	0.035	5.078	0.465	3.532	0.130	0.67
LB-9076	75.17	12.74	1.815	0.368	0.174	0.050	4.795	0.253	3.788	0.049	0.80
LB-9080	69.40	15.03	2.595	1.990	0.381	0.051	3.979	1.356	4.044	0.163	1.01
LB-9082	75.99	13.01	1.099	0.206	0.066	0.036	4.330	0.012	4.475	0.019	0.75
LB-9084	68.22	14.72	3.372	1.076	0.505	0.055	5.425	1.096	3.923	0.165	1.44

CQ = CARDEÑA

LB = VIRGEN DE LA CABE





ANALISIS PLASMA ICP

STL-5300 (LOS PEDROCHES)

<u>MUESTRA</u>	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Nb	Ni	P_	Pb	Sb	V_	Y_	Zn	Li *
	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm	pmm
CQ-9991	0,5	20	261	7	2	4	161	8	337	4	10	10	535	38	10	13	15	50	138
CQ-9992	0,5	20	268	5	2	5	142	27	339	4	10	10	403	32	10	17	20	171	120
CQ-9993	0,5	20	463	6	2	10	137	8	406	4	10	25	683	30	10	47	16	48	146
CQ-9994	0,5	20	485	5	2	11	170	8	425	4	10	27	694	33	10	50	16	55	131
CQ-9996	0,5	25	28	12	2	2	104	8	453	4	12	10	122	30	10	4	12	25	90
LB-9070	0,5	20	33	19	2	3	95	8	317	4	10	10	131	48	14	5	21	25	107
LB-9071	0,5	20	393	5	2	5	155	17	264	4	10	10	564	35	20	17	16	24	124
LB-9076	0,5	20	111	7	2	4	182	8	378	4	10	10	227	44	10	10	26	35	97
LB-9080	0,5	20	524	6	2	7	165	25	356	4	10	17	688	35	10	34	13	241	93
LB-9082	0,5	26	30	7	2	3	165	14	267	4	10	10	100	30	10	5	24	73	83
LB-9084	0,5	20	687	3	2	6	84	9	385	4	10	10	662	31	10	29	24	87	67

* El Li se ha determinado por A.A



ANALISIS DE 42 MUESTRAS ENVIADAS POR GEOLOGIA, BATOLITOS
LOS PEDROCHES PARA SU ANALISIS POR LITIO.

<u>Referencia</u>	<u>Li (ppm)</u>
1	171
2	146
4	78
5	93
6	< 50
7	145
8	143
9	189
10	156
11	76
12	< 50
13	57
14	119
15	157
16	153
17	180
18	255
19	170
20	104
21	157
22	68
23	278
24	140
25	140
26	120
27	76
28	125
29	201
30	98
31	73
32	55
33	119
34	66
35	131

.../...



<u>Referencia</u>	<u>Li (ppm)</u>
36	89
37	121
38	68
39	151
40	60
41	84
42	81

Madrid, 7 de Marzo de 1990

