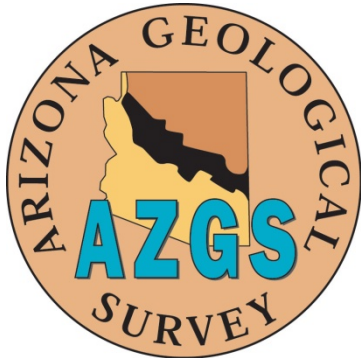




CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the

James Doyle Sell Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

RES Heineman: Sugarloaf Butte alunit,
 E&M J, 1935, vol 136, no. 3, p. 138-139.

"They found, chemically & spectrographically,
 several traces of platinum, palladium, & rhodium
 in alunit from Sugarloaf Peak near Quartzite,
 Arizona

~~Analysis~~ Analysis of sample of SC alunit (Ariz Bk)
 shows trace of Ag ≈ 0.002 to 0.004 g Ag/g...

W.P. Johnson: Geol & ore dep of the Copper Basin mining district
 Garoga Co, Ariz. Univ. Utah Ph.D. Thesis (1955).

1943

April 3, 1984

W. L. Kurtz
Tucson Office

Sugarloaf Peak Area
La Paz County, AZ

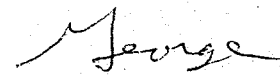
In reply to your Feb. 27, 1984 note to J. D. Sell concerning subject property:

1. Westworld Oil & Gas is holding on to their "SP" claim group.
2. I know of no recent (e.g. 1983-84) drilling in the area.

Section 33 (T4N, R20W) as cited in my enclosed Asarco ERS (3/29/83) is the area of interest and is also where Congdon & Carey's rotary hole RH-SL-7 is located.

An examination of the BLM microfiche cards of the Arizona Geographic Index shows that there is still a plethora (40 or so) of unpatented lode and placer claims in this section, plus the 20 Westworld claims. See enclosed 4 BLM sheets.

The land status remains a mess here.



George J. Stathis

GJS/cg

cc: JDSell



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70319D

PAGE 2

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
.....																			

*Supplied
from
PJB
of course w/ Plate 1*

SL 1	49	.073	8.96	.007	9.65	<.103	5.31	457.	<.239	.664	22.0	1.84	.270	<.479	<.096	<.239	4.01	2.40	<.479
SL 2	50	.149	<.971	.026	11.5	.191	1.03	29.9	<.243	<.485	5.98	.709	<.243	<.485	<.097	<.243	2.88	1.34	<.485
SL 3	51	<.023	9.23	.006	3.11	<.094	3.39	697.	<.244	.779	11.9	4.68	.475	<.468	<.094	<.234	5.83	1.66	<.468
SL 4	52	.132	3.85	.013	6.14	.268	1.27	501.	<.222	<.443	4.71	6.66	.290	<.443	<.089	<.222	<2.29	4.56	<.443
SL 5	53	.052	6.19	.008	19.5	.107	12.5	323.	<.219	1.52	6.18	24.2	.281	.801	<.088	<.219	5.47	6.18	<.438
SL 6	54	<.023	5.99	.01	29.4	.142	6.02	1122	<.229	1.24	2.69	10.0	<.229	<.459	<.092	<.229	7.27	8.77	<.459
SL 7	55	.102	9.50	.031	3.04	.101	11.3	131.	3.41	1.03	3.51	12.2	.354	<.472	<.094	<.236	3.48	2.01	<.472
SL 8	56	.034	22.4	.011	5.36	<.089	16.9	167.	5.32	<.446	2.92	40.7	<.244	<.446	<.089	<.223	7.73	6.68	1.82
SL 9	57	<.023	131.	.008	20.3	<.091	7.75	1432	5.56	9.18	1.11	109.	<.227	2.90	<.091	<.227	8.75	7.97	.721
SL 10	58	5.32	5.51	.167	60.2	<.097	6.05	1127	1.23	<.484	94.1	33.2	38.8	<.484	<.097	<.242	5.19	5.06	<.484
SL 11	59	.489	12.1	.203	5.98	<.097	14.2	686.	2.21	<.487	14.8	3.92	.834	<.487	<.097	<.244	<4.38	6.16	<.487
SL 12	60	.078	5.78	.038	5.51	<.095	5.12	387.	1.14	<.476	90.5	1.51	.514	<.476	<.095	<.238	4.34	2.77	<.476



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70319D

PAGE 3

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
SL 13	61	<.023	6.98	.006	2.81	<.091	2.35	826.	.577	<.455	11.5	15.8	<.228	<.455	<.091	<.228	12.2	2.69	<.455
SL 14	62	.06	11.9	.022	6.02	<.094	5.14	52.0	1.29	<.472	46.5	.944	.480	<.472	<.094	<.236	2.73	<.472	<.472
SL 15	63	.234	12.9	.117	10.2	<.099	8.55	121.	1.28	<.494	17.4	1.20	.451	<.494	<.099	<.247	2.59	.661	<.494
SL 16	64	.284	15.0	.105	10.9	<.091	6.55	260.	.499	<.453	75.2	6.39	1.40	<.453	<.091	<.226	3.68	1.39	<.453
SL 17	65	.118	4.66	.033	5.99	<.097	2.55	332.	.595	<.486	42.8	6.21	.932	<.486	<.097	<.243	3.20	1.46	<.486
SL 18	66	.449	9.54	.059	17.1	<.095	3.15	464.	.700	<.473	26.7	11.8	.268	<.473	<.095	<.237	7.58	.901	<.473
SL 19	67	.254	11.7	.032	7.29	<.087	2.34	424.	.862	.552	28.8	3.69	1.56	<.433	<.087	<.216	4.44	1.00	<.433
SL 20	68	.034	31.5	.097	11.3	<.095	35.4	1823	5.45	<.477	48.4	14.0	<.239	<.477	<.095	<.239	39.3	11.6	<.477
SL 21	69	.035	5.96	.019	14.1	<.093	2.03	195.	.716	<.464	11.5	1.64	2.39	<.464	<.093	<.232	3.65	<.464	<.464
SL 22	70	.101	9.05	.028	11.8	<.086	2.09	969.	1.17	<.429	70.0	12.0	2.06	<.429	<.086	<.214	4.03	.858	<.429
SL 23	71	.028	14.4	.106	6.99	<.085	4.24	975.	1.08	<.423	59.9	17.3	2.95	<.423	<.085	<.212	7.52	.577	<.423
SL 24	72	.04	5.76	.039	4.97	<.115	8.71	101.	.408	<.427	122.	1.63	.391	<.427	<.085	<.213	3.38	1.05	<.427
SL 25	73	.381	2.17	.236	29.2	<.092	50.3	68.1	.385	<.459	42.0	2.95	5.07	<.459	<.092	<.229	5.52	14.3	<.459
SL 26	74	.128	7.14	.612	39.8	<.089	6.06	156.	.983	1.38	410.	.795	.536	4.37	<.089	<.223	3.86	9.98	<.446
SL 27	75	.164	5.22	.990	11.6	<.089	7.53	344.	1.36	<.446	19.4	5.19	.351	<.446	<.089	<.223	6.29	7.24	<.446
SL 28	76	.076	5.55	.310	8.34	<.085	96.3	240.	.456	<.425	52.2	3.40	<.213	2.21	<.085	<.213	9.91	5.70	<.425
SL 29	77	.199	5.21	.028	20.4	<.088	7.01	44.2	.246	<.439	21.0	1.42	<.219	<.439	<.088	<.219	2.04	2.31	<.439
SL 30	78	.366	12.5	.140	6.90	<.087	2.16	24.9	.355	<.434	23.9	.448	<.217	<.434	<.087	<.217	2.65	.745	<.434
SL 31	79	.229	28.1	.014	32.9	<.095	5.57	100.	.829	<.475	19.3	15.2	<.238	<.475	<.095	<.238	5.87	5.74	<.475
SL 32	80	.900	29.4	.083	17.8	<.093	24.2	132.	4.52	<.465	12.4	3.21	<.232	<.465	<.093	<.232	10.4	<.465	<.465
SL 33	81	3.65	11.2	.021	8.73	<.092	2.75	55.8	.293	<.510	8.70	2.90	<.23	<.46	<.092	<.23	2.06	<.46	<.46
SL 34	82	.258	29.1	.018	113.	<.086	3.02	43.4	1.07	<.432	10.5	1.89	<.216	<.432	<.086	<.216	1.78	<.432	1.68
SL 35	83	.222	14.4	.006	8.71	<.097	2.38	21.5	.574	<.484	4.97	1.63	<.242	<.484	<.097	<.242	2.79	<.484	3.23



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70424B

PAGE 1

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
SL-36	4	.560	5.22	.527	9.67	.274	8.98	1402	.609	<.566	<1.00	4.65	.933	1.40	<.092	<.229	9.57	3.45	<.458
SL-37	5	.167	3.59	.141	20.8	<.087	90.7	87.6	.224	<.737	<.865	1.42	.829	1.35	<.087	<.216	5.00	3.18	<.433
SL-38	6	1.67	2.02	.189	11.4	.113	11.1	141.	<.21	<.42	<.84	1.98	.787	1.10	<.084	<.21	7.34	3.01	<.42
SL-39	7	.472	3.98	.104	14.2	.165	18.9	173.	.414	<.449	73.8	15.5	4.64	1.22	<.088	<.219	4.75	3.84	<.438
SL-40	8	.162	5.69	.048	26.4	<.095	6.86	147.	.408	.814	94.3	1.07	.351	1.92	<.084	<.209	4.22	3.09	<.419
SL-41	9	1.57	4.39	.472	39.4	<.089	12.4	177.	.350	<.552	6.06	2.82	.909	.750	<.089	<.223	5.35	3.27	<.446
SL-42	10	.339	6.12	.204	9.41	<.087	257.	100.	.356	<.677	5.07	5.20	1.13	1.13	<.087	<.219	3.95	3.51	<.437
SL-43	11	4.40	1.65	.049	43.9	<.084	67.6	2852	1.20	<.419	14.9	9.62	3.81	.874	<.084	<.21	4.01	1.38	<.419
SL-44	12	.171	1.83	.015	28.4	<.094	10.9	28.4	.586	13.1	30.3	3.01	.781	<.468	<.094	<.234	1.40	.658	.501
SL-45	13	.463	4.08	.234	39.2	<.091	83.8	88.3	.283	<.456	129.	1.33	1.06	1.13	<.091	<.228	6.64	1.64	<.456
SL-46	14	2.32	4.05	.154	14.7	<.097	9.04	61.6	.251	.521	99.5	.610	2.46	1.36	<.097	<.243	3.23	2.40	<.486
SL-47	15	.142	1.53	.457	15.9	<.123	6.50	84.3	.242	<.825	142.	.815	.681	1.30	<.096	<.265	<.962	3.82	<.481
SL-48	16	.598	2.32	.095	26.1	<.088	24.9	155.	<.22	<.44	<.88	.911	.703	1.66	<.088	<.22	5.22	3.19	<.44
SL-49	17	.257	2.79	.032	16.2	<.085	37.6	18.3	<.213	<.546	<.853	.595	.412	1.49	<.085	<.213	3.91	1.67	<.427
SL-50	18	1.03	4.60	.201	32.8	<.087	23.7	122.	<.216	<.451	2.50	.756	<.216	3.11	<.087	<.216	6.65	1.81	<.433
SL-51	19	.160	10.4	.025	68.4	<.184	37.7	81.6	.300	<1.46	56.5	1.15	<.249	2.33	<.099	<.408	6.25	2.47	<.497
SL-52	20	.575	8.85	.008	49.6	<.173	44.1	89.8	.364	<1.58	<2.17	5.00	<.226	1.09	<.09	<.343	3.39	3.58	<.452
SL-53	21	.199	8.48	<.0005	9.00	.256	3.66	35.8	.453	1.38	<1.55	1.63	<.226	.643	<.091	<.246	<.906	1.27	<.453
SL-54	22	.345	13.8	.008	14.0	.258	4.03	46.6	.617	<1.50	<2.38	13.2	.240	.694	<.097	<.433	4.01	1.65	<.453
SL-55	23	.175	20.7	.145	46.4	<.207	1.56	8.50	.353	1.69	28.2	1.25	.687	.686	<.09	<.292	2.05	1.01	.534
SL-56	24	.202	8.15	.007	30.6	.224	2.36	41.8	.478	1.49	<2.29	1.44	<.710	.959	<.09	<.312	2.77	1.29	<.449
SL-57	25	.402	8.74	.007	45.6	<.178	2.01	129.	.354	<1.46	<1.89	.790	<.241	1.06	<.096	<.301	6.73	1.26	<.482
SL-58	26	.287	18.4	.066	118.	.277	1.69	11.7	<.301	1.71	35.7	1.84	.598	1.42	<.095	<.416	<2.93	2.07	<.455
SL-59	27	.368	8.04	.056	98.6	.939	4.16	26.7	.264	<1.64	2.63	2.55	<.213	1.12	<.114	<.404	6.02	1.28	<.427
SL-60	28	.201	16.0	.132	25.6	.331	6.93	65.8	.455	1.87	<2.37	5.55	.347	1.74	<.099	<.464	3.83	2.77	<.497
SL-61	29	.332	25.4	.009	187.	.254	7.48	36.8	.702	1.89	93.4	5.59	<.235	1.58	<.094	<.447	4.72	1.35	.606
SL-62	30	.036	6.00	.002	10.1	<.153	2.57	7.57	.333	<1.17	3.39	<.359	<.228	3.15	<.091	<.421	<3.00	1.25	<.456



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70-248

PAGE 2

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
.....																			
SL-63	31	.09	2.66	.003	5.71	.222	3.74	3.49	.282	1.62	<2.37	.505	<.222	1.17	<.089	<.409	<.89	1.49	<.445
SL-64	32	.053	1.55	.004	9.48	.137	11.6	.811	.442	.662	<1.11	.348	<.224	.586	<.089	<.224	<1.39	1.23	<.447
SL-65	33	.043	2.36	.004	8.86	<.165	6.01	2.69	<.217	<.898	<1.29	.858	<.217	.636	<.087	<.218	<.868	.754	<.434
SL-66	34	.061	1.73	.011	6.61	<.190	2.62	3.31	.255	1.43	<1.99	.501	<.22	.629	<.088	<.264	<4.84	1.19	<.44



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-704240

PAGE 1

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
SL-67	1	<.014	2.40	.001	5.83	<.116	2.34	2.26	<.231	<1.01	<1.07	<.231	<.231	.689	<.092	<.231	<.923	.938	<.461
SL-68	2	.017	2.36	.003	5.23	<.091	2.39	2.26	<.228	<.455	<.911	.926	<.228	.748	<.091	<.228	<.911	.899	.477
SL-69	3	.079	2.94	.003	11.0	<.095	4.16	5.15	<.237	<.644	<.949	1.10	<.237	.878	<.095	<.237	<.949	1.05	<.474
SL-70	4	.018	3.01	.002	5.40	<.105	1.35	1.86	<.241	<.819	<1.06	.405	<.241	.537	<.097	<.241	<.965	.869	<.483
SL-71	5	.044	1.92	.001	4.95	<.103	3.47	2.88	<.232	<.787	<.929	.307	<.232	1.95	<.093	<.232	<.929	1.21	<.465
SL-72	6	.107	6.67	.002	18.7	<.099	13.5	3.31	.343	<.627	<.984	.817	<.246	.812	<.098	<.246	1.85	.505	<.492
SL-73	7	.04	3.52	.002	62.4	<.095	7.45	8.02	.377	<.530	<.951	.697	<.238	.908	<.095	<.238	2.35	1.24	<.475
SL-73A	8	.110	4.59	.003	22.6	<.086	4.73	16.4	<.215	<.43	<.861	.559	<.215	.596	<.086	<.215	.935	.803	<.43
SL-74	9	.043	2.08	.001	63.3	<.088	9.67	22.5	<.216	<.594	<.862	.403	.782	.472	<.086	<.216	2.74	.537	<.431
SL-75	10	.038	3.06	.003	77.7	<.084	7.10	29.1	.265	<.601	<.839	.569	<.21	.527	<.084	<.21	.903	.620	<.419
SL-76	11	.769	8.84	.009	21.1K	<.091	500.	10.0	9.91	<.585	<1.75	4.62	<.228	1.42	<.091	<.228	3.47	<.455	<.455
SL-77	12	.037	3.42	.002	75.6	<.087	7.37	30.3	.366	<.801	<.87	.504	<.217	<.435	<.087	<.217	<.87	.591	<.435
SL-78	13	.075	1.76	.002	45.0	<.104	4.64	15.8	<.22	<.480	<.882	.373	<.22	<.441	<.088	<.22	<.882	.532	<.441
SL-79	14	.199	6.90	.007	346.	<.094	14.9	260.	1.62	<.613	161.	4.99	1.15	.501	<.094	<.235	5.02	<.469	1.76
SL-80	15	.216	3.94	.002	32.3	<.091	5.86	31.4	.306	<.532	<.909	1.42	<.227	.524	<.091	<.227	<.953	.600	<.455
SL-81	16	.125	2.55	.001	40.7	<.092	3.17	4.99	.315	<.621	<.917	.591	<.229	.554	<.092	<.229	1.00	.492	<.459
SL-82	17	.052	12.1	.002	22.5	<.108	2.13	10.2	.472	<.912	100.	4.02	<.241	3.50	<.097	<.241	<1.66	.893	1.43
SL-83	18	.333	7.66	.012	301.	<.105	6.27	22.8	4.39	<.494	856.	3.87	3.03	<.479	<.096	<.239	1.05	.510	2.09
SL-84	19	.053	5.23	.001	41.3	<.094	9.51	13.1	.258	<.482	72.1	.771	<.218	<.436	<.087	<.218	<.924	.511	<.436
SL-85	20	.044	1.61	.001	171.	<.144	19.2	5.33	.222	<.813	<.89	.406	<.222	.484	<.089	<.222	1.60	.485	<.445
SL-86	21	.142	5.31	.002	31.0	<.093	4.34	5.22	.493	<.557	<.935	.707	<.234	1.34	<.093	<.234	<.935	3.28	<.467
SL-87	22	.159	8.49	.003	72.0	<.084	3.58	7.72	.426	<.565	94.5	.785	<.211	<.422	<.084	<.211	<.843	.640	<.422
SL-88	23	.277	16.4	.006	16.3	<.110	8.02	118.	.721	<.961	3.09	2.66	.614	.571	<.091	<.227	5.58	.698	.670
SL-89	24	.099	5.58	.003	17.3	<.096	4.30	68.8	.617	<.768	40.4	1.27	.261	1.17	<.093	<.234	<1.10	1.21	<.467
SL-90	25	1.14	37.2	.203	471.	<.091	4.90	438.	3.38	2.74	132.	35.5	4.44	5.79	<.091	<.228	3.25	8.25	<.455
SL-91	26	.983	13.7	.042	18.6	<.115	3.10	64.9	.341	<.601	<.876	4.58	<.219	.685	<.088	<.219	3.74	3.32	<.438



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70424C

PAGE 1

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
SL-92	1	1.23	9.02	.037	54.1	<.084	4.21	43.7	<.21	<.528	<.842	3.87	<.21	.609	<.084	<.21	9.81	1.94	<.421
SL-93	2	.430	17.9	.041	134.	<.085	3.52	29.9	.372	<.635	22.9	2.94	.411	.759	<.085	<.212	6.06	2.26	<.424
SL-94	3	.146	9.31	.006	11.4	<.102	2.98	18.2	<.235	<.539	<1.05	2.67	<.235	.706	<.094	<.235	2.11	1.78	<.471
SL-95	4	.119	7.15	.006	10.2	<.097	3.06	17.7	.284	<.486	<.973	1.15	<.243	.855	<.097	<.243	<.973	1.41	<.486
SL-96	5	.144	53.3	.007	141.	<.097	4.47	14.6	.773	1.64	<.973	5.13	<.243	2.81	<.097	<.243	2.34	.832	<.486
SL-97	6	.180	15.9	.004	38.3	<.088	4.06	21.9	.263	<.439	<.877	.848	<.219	1.23	<.088	<.219	1.77	.830	<.439
SL-98	7	.238	6.21	.002	59.1	<.086	3.62	15.5	.343	<.431	<.862	.706	<.216	.435	<.086	<.216	2.96	1.73	<.431
SL-99	8	.045	1.56	.003	4.88	<.127	2.59	3.74	<.245	<.661	<1.10	<.245	<.245	<.49	<.098	<.245	<1.19	.531	<.49
SL-100	9	.590	14.5	.017	50.5	<.094	2.70	19.9	<.235	<.487	<.938	13.3	.538	1.10	<.094	<.235	10.3	1.11	<.469
SL-101	10	1.07	13.6	.156	19.6	.233	9.31	273.	<.24	<.481	<.962	1.64	<.24	1.19	<.096	<.24	7.00	2.01	<.481
SL-102	11	.629	20.7	.019	468.	<.097	10.5	88.4	1.53	1.19	55.9	45.2	<.242	4.44	<.097	<.242	3.56	10.5	<.484
SL-103	12	.369	7.92	.043	63.7	<.085	1.49	126.	.866	1.01	271.	.939	3.84	2.36	<.085	<.212	1.64	1.25	<.424
SL-104	13	.278	8.64	.114	14.5	<.091	1.71	93.6	<.228	<.455	17.1	.860	<.228	1.18	<.091	<.228	4.19	1.83	<.455
SL-105	14	.874	7.55	.048	20.8	<.091	12.4	204.	.375	<.561	<.909	2.40	.559	2.01	<.091	<.227	8.39	2.81	<.455
SL-106	15	.994	3.93	.149	19.7	<.096	70.0	301.	.289	<.604	<.958	2.64	.412	2.60	<.096	<.239	9.43	4.12	<.479
SL-107	16	2.29	6.85	.523	31.2	<.092	106.	56.6	.229	.552	11.2	1.60	.481	2.50	<.092	<.229	7.90	3.55	<.458
SL-108	17	.067	6.09	2.24	72.5	<.093	142.	31.8	.426	2.80	204.	1.38	.416	6.08	<.093	<.234	3.56	3.05	<.467
SL-109	18	.156	8.73	.032	35.8	<.104	19.9	44.7	.981	<.611	106.	.648	2.88	2.94	<.095	<.239	1.48	5.08	<.477
SL-110	19	.158	9.09	.007	50.5	<.089	25.1	25.4	.512	.993	276.	.575	2.18	7.39	<.089	<.223	2.34	2.58	<.446
SL-111	20	.073	5.80	.033	10.0	.155	3.28	72.2	<.229	5.09	<.917	8.99	<.229	3.03	<.092	<.229	8.30	5.10	3.69
SL-112	21	.089	32.9	.013	11.1	<.084	5.10	190.	.793	1.27	<.843	2.55	.327	.566	<.084	<.211	12.3	1.23	<.422
SL-113	22	.051	9.59	.006	8.05	<.086	2.13	422.	.717	3.62	<.861	11.2	<.215	2.79	<.086	<.215	2.95	7.32	<.43
SL-114	23	.071	8.95	.005	11.6	.248	5.01	189.	.978	1.99	<.917	4.52	<.229	4.35	<.092	<.229	3.76	2.36	4.19
SL-115	24	<.014	9.87	.008	6.91	.223	3.10	286.	12.5	1.19	<.965	51.7	<.239	<.479	<.096	<.239	4.09	.595	<.479
SL-116	25	.115	12.2	.288	6.54	1.04	4.36	3518	1.79	4.98	<.926	39.1	<.231	2.76	<.093	<.231	8.51	6.44	.963



GEOCHEMICAL ANALYSIS REPORT

LOT ID: ASC-70427B

PAGE 1

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Pt ppm	Se ppm	Sn ppm	Te ppm
SL-117	1	.059	7.05	.01	3.11	<.084	3.70	122.	.501	2.38	<.843	2.25	.309	1.42	<.084	<.211	3.55	3.09	<.422
SL-118	2	.023	39.7	.001	4.15	<.088	9.19	27.0	.401	<.441	<.882	26.5	<.434	.441	<.088	<.22	<.882	1.61	1.16
SL-119	3	<.015	17.3	<.0005	7.09	<.097	6.94	30.6	.497	<.487	<.975	73.5	.344	1.61	<.097	<.244	1.00	<.487	1.65
SL-120	4	<.013	2.94	<.0005	4.91	<.085	8.54	30.4	.633	<.427	<.853	34.3	.226	.516	<.085	<.213	<.853	.713	4.41
SL-121	5	.027	2.36	.005	6.85	<.09	7.74	27.2	.348	<.45	<.899	34.3	<.385	<.45	<.09	<.225	<.899	1.67	1.96
SL-122	6	.026	2.11	<.0005	2.92	<.092	3.89	14.3	.306	<.462	<.924	3.62	<.231	<.462	<.092	<.231	1.23	1.37	.651
SL-123	7	.075	16.1	<.0005	4.56	<.096	1.11	3.61	.563	<.481	<.962	.401	.452	.507	<.096	<.24	<.962	.994	<.481
SL-124	8	.021	6.82	.001	3.17	<.091	34.0	41.2	.309	<.455	<.911	22.0	.364	1.89	<.091	<.228	<.911	1.48	.672
SL-125	9	.026	11.5	<.0005	2.55	<.09	1.02	4.69	.557	<.45	<.901	<.225	<.515	.822	<.09	<.225	<.901	.668	<.45
SL-126	10	.018	10.7	.001	2.07	<.085	.606	5.08	.541	<.425	<.85	.284	.392	.674	<.085	<.213	<.914	.582	<.425
SL-127	11	.094	21.0	.006	26.0	.158	11.3	1997	1.02	.839	<.945	33.9	<.236	2.67	<.095	<.236	36.2	2.03	1.53
SL-128	12	<.013	.908	.021	3.89	<.085	20.2	102.	3.41	<.427	<.855	1539	<.214	.668	<.085	<.214	1.96	2.37	26.5
SL-129	13	<.013	12.2	.001	1.67	<.088	.988	6.59	.767	<.457	<.883	14.4	<.221	.813	<.088	<.221	1.39	.951	<.442
SL-130	14	.018	22.3	<.0005	1.43	<.094	.739	4.25	.710	<.469	<.938	2.37	<.235	.760	<.094	<.235	1.87	.534	<.469
SL-131	15	.026	8.48	.036	10.0	<.096	2.17	49.2	.666	<.48	<.96	12.1	<.24	.579	<.096	<.24	<1.98	5.46	1.56
SL-132	16	.029	8.24	.044	4.57	<.092	1.98	49.1	.590	<.682	<.921	6.61	<.23	.470	<.092	<.23	<.921	2.60	.616
SL-133	17	<.013	10.1	.006	29.9	.150	24.5	233.	7.72	<.696	<.877	1779	<.219	1.32	<.088	<.219	19.3	8.26	34.2
SL-134	18	<.013	10.5	.085	21.2	.184	3.53	2033	.659	1.85	<.898	40.5	<.224	3.93	<.09	<.224	12.8	2.60	<.449
SL-135	19	<.014	3.93	.006	4.28	<.096	4.01	391.	.576	<.48	<.96	47.8	<.24	2.60	<.096	<.24	3.94	2.28	.768
SL-136	20	.015	9.83	.117	5.66	<.099	18.7	115.	4.18	<.467	<.898	117.	<.438	<.449	<.09	<.224	<.898	5.78	8.60

Sugarloaf
La Paz County, Arizona
Sample Descriptions

- SL-1 Dacite, qtz eyes, bleached white kaolinized and sericitized, tr. limonite jointing but rock is not particularly fractured.
- SL-2 Adit on drill road. Highly hematized dacite cut by white alunite stockwork. Veins 1-3" thick. Roughly orthogonal stockwork. Veins essentially pure alunite. Yellow barite spotted on wall of one veinlet.
- SL-3 Sericitized, hematized meta-dacite. Weak gneiss fabric.
- SL-4 Strongly sericitized meta-dacite, bleached white, cut by thin 1/8" alunite veinlets.
- SL-5 Strongly sericitized meta-dacite, slight limonite stain, cut by stockwork of qtz and alunite veinlets. Qtz appears to be truncated by alunite veinlets. Juicy looking rock.
- SL-6 Strongly sericitized meta-dacite. Near schistose fabric, some thin irregular alunite veinlets.
- SL-7 Rhyolite outer silica rind (not sampled), rhyolite is perlitic, pumicy, very porous. I would call it a near-surface (subaerial?) dome. Duplicate sample taken for whole rock.
- SL-8 Contact jasperoid. Black silica-rich rock, black is fine grained specularite (up to 30%). Rest appears to be fine-grained silica. Original rock probably the rhyolite but can't tell for sure.
- SL-9 White sericitized meta-dacite, schistose fabric.
- SL-10 White schistose sericitized meta-dacite cut by occasional limonite veinlets.
- SL-11 White sericitized meta-schist. Very extensive zone of alteration (mostly kaol).
- SL-12 Sericitized and kaolinitized meta-dacite, white, punky, near flay-lying 20°, 4' thick white qtz vein.
- SL-13 Same as SL-12.
- SL-14 Hematized, sericitized meta-dacite.
- SL-15 Hard breaking, part sericitized (+silica) meta-dacite. Less alt'd than samples taken previously. Note: alteration is essentially pervasive; no stockwork veinlets.
- SL-16 White, sericitically alt'd meta-dacite near 2' white bull qtz vein, abundant patches of white qtz "blowouts."
- SL-17 White sericitized meta-dacite, minor qtz overgrowth veinlets.
- SL-18 Hematized, sericitized meta-dacite with limonite veinlets.
- SL-19 Weakly hematized, sericitized meta-dacite, minor limonite veining.
- SL-20 Prospect shaft sunk next to a silica-specularite zone, qtz-hem veinlets in strongly sheared sericite + kaol. meta-dacite.
- SL-21 Pyritized (2%) qsp alt'n of meta-dacite, slight hem stain. Alt'n is pervasive but not fractured or veinlet controlled.
- SL-22 Hematized, tr. pyrite meta-dacite.
- SL-23 Strongly hematized meta-dacite within a white qtz vein zone.
- SL-24 White, punky ser + kaol alt'd meta-dacite, incipient gneissic fabric. Almost appears to be an airfall.
- SL-25 Strongly Fe-stained pyritized, silicified, hematite meta-dacite
- SL-26 Drill site: very strongly Fe stained, abundant limonite veinlets. Slight greenish tinge to soil. Very juicy looking.
- SL-27 Hematite stained, weakly pyritized, sericitically alt'd

- meta-dacite.
- SL-28 Sericitized limonite veined, slt yellow tinge meta-dacite.
- SL-29 Hematized, sericitically alt'd meta-dacite, occasional thin qtz veinlets present.
- SL-30 Hematite stained schistose meta-dacite.
- SL-31 Alunite-qtz-hematite stockwork in silicified sericitized meta-dacite.
- SL-32 Sericitized weakly schistose, weakly pyritized meta-dacite.
- SL-33 Sericitized, weakly hem stained schistose meta-dacite.
- SL-34 Hematite stained pyritized dacite, some alunite-jarosite veins; these are probably supergene.
- SL-35 Sericitized, bleached white, weakly hematite stained schistose dacite.
- SL-36 Sericitically altered dacite(?) tuff. Part sil, weak silica vnlt, hem stained, vuggy. Should have good permeability.
- SL-37 Ser alt'd dacite tuff, some silica flooding in matrix, strong limonite yellow stain.
- SL-38 Dozer cut - dacite tuff w/ rounded qtz eyes. Ser alt'd, hem impreg, part sil. Near flat lying (5°).
- SL-39 Well sil. ser. dacite tuff, tr. pyrite seen, strong FeOx stain.
- SL-40 Ser alt'd dacite tuff (much less silica than SL-39). Some kaol, weak Fe stain.
- SL-41 Wallrock adj to qtz vein. Qtz veins are typically small pods 1-2' across x 5-10' long. Quite common in occurrence. Consist of white bull qtz, no sulfides. Wallrock is dacite tuff, sericitized, tr. Fe stain.
- SL-42 Sil, pyritic (up to 2%) ser dacite tuff. Rock should kick.
- SL-43 Sil, heavy specularite dacite, strong FeOx stain.
- SL-44 Bull qtz vein, 2 ft. thick, tr. py boxworks.
- SL-45 Sericitized dacite 20' from qtz vein. Pink hem stained, tr. py boxwork.
- SL-46 Ser alt'd dacite, rounded qtz eyes, 1/2% py casts. May be a flow, hard to tell from outcrop.
- SL-47 Ser alt'd dacite tuff, not a lot of silica added.
- SL-48 Ser alt'd dacite cut by numerous small qtz microveinlets.
- SL-49 Strongly hem stained ser alt'd dacite.
- SL-50 Strong hem + limon stained, part bx, ser alt'd dacite.
- SL-51 Strong pyritized (up to 3% relict casts), ser alt'd dacite tuff.
- SL-52 Strong hem stained, ser alt'd dacite. Mapped as pyritic alt'n by K-M but no chlorite, just looks sericitically alt'd to me.
- SL-53 Hem stained sil dacite, sericitized, up to 1% py casts.
- SL-54 Same as SL-53.
- SL-55 Ser alt'd white dacite, minor py in microveinlets.
- SL-56 Ser alt'd dacite tuff, slight pinkish tinge, no alunite.
- SL-57 Same as SL-56.
- SL-58 Pyritized ser alt'd dacite tuff, no alunite.
- SL-59 Pyritized (up to 3%) ser alt'd dacite tuff, very schistose fabric.
- SL-60 Hem stained, ser alt'd dacite tuff, no alunite, occasional minute vuggy qtz vnlt seen.
- SL-61 Same as SL-60.
- SL-62 Qtz monz, large Ksp (up to 1/2"), bio added (up to 10%), rare epid vnlt w/ bio halo.
- SL-63 Bx qtz monz, white, cut by stockwork of tour + chlor vnlt.
- SL-64 Sericite schist w/ thin 3" bands of lt grey silica.

- SL-65 Completely sericitized dacite flow. Phenocryst shapes occasionally visible.
- SL-66 Ser alt'd qtz monz, tr. py casts.
- SL-67 Tourmaline impreg ser alt'd qtz monz. Zone is 10' across, otherwise prop alt'd monz.
- SL-68 Ser alt'd qtz monz, tr to 5% tourmaline along fractures.
- SL-69 Ser qtz monz, slight hem stain.
- SL-70 Bx dike 5' across, contains laths of silicified, ser, q.m. in a tour. matrix.
- SL-71 Ser, py casts, fine-grained dacite.
- SL-72 Pervasively ser dacite tuff.
- SL-73 Same as SL-72
- SL-73A Pervasive ser alt'd, q.m., vuggy, several % py casts, limonite vnlt.
- SL-74 Sericitized q.m., mostly ksp stable cut by hem-limonite vnlt, mapped as potassic by K-M, I would call it weak sericitic.
- SL-75 Ser alt'd qtz monz w/ strong Cu-oxide stain. Mapped as potassic by K-M but clearly is not.
- SL-76 Ser alt'd qtz mon w/ CuOx stain. Fault nearby.
- SL-77 Ser alt'd fine-grained q-m.
- SL-78 Ser alt'd fine-grained q-m. A few qtz vnlt, some hem stain, fresh sample tag: 4843 AK, probably taken 4-8-87.
- SL-79 Ser alt'd schist, some limonite vnlt, no potassic alt'n seen, on mapped fault.
- SL-80 Hem dusted, equigranular fresh looking qm, some py casts, mapped by K-M as potassic, but it's a fresh rock!
- SL-81 Pervasively sericitized qm.
- SL-82 Equigranular qm. Weak schistose fabric, matrix consists of sericite + chlorite, mapped by K-M as pyritic, I'd call it strong propylitic. No py seen.
- SL-83 Ser alt'd (w/ minor chlor) qm. Up to 2% py casts. Mapped as pyritic, I'd call it sericitic (SL-82 is fringe stuff).
- SL-84 Ser alt'd qm w/ limonite vnlt.
- SL-85 Very strongly sericitized qm, minor bull qtz veinlets, strong Fe stain.
- SL-86 Ser + chlor alt'd fine-grained qm.
- SL-87 Strong ser alt'd qm w/ limonite veinlets.
- SL-88 Strong ser alt'd schistose meta dacite, 2% py casts.
- SL-89 Same as SL-88.
- SL-90 Flat-lying qtz vein and shear 4' thick, N32E, 20E. Sample is of wallrock (highly silicified dacite and some qtz veins).
- SL-91 Ser alt'd schistose, hem stained dacite tuff.
- SL-92 Strongly sericitized, pyritized (2-3%) schistose dacite tuff 100 ft. from shaft (not certain what they were sinking on).
- SL-93 Strongly sericitized dacite tuff, several percent py casts.
- SL-94 Same as SL-93
- SL-95 Hematized dacite tuff(?). Some pumice vugs, feldspars look fresh.
- SL-96 Sericitized qtz veined meta-dacite. Mapped as a fault by K-M but no real evidence for it.
- SL-97 Strongly sericitized, Fe-stained dacite, weak qtz veinlets.
- SL-98 Same as SL-97.
- SL-99 White bull qtz float from 8' wide vein. Float covers an area 100 x 300'.
- SL-100 Strongly hematized, ser alt'd dacite tuff, py casts (1-2%).
- SL-101 Same as SL-100.

- SL-102 Dozer cut near old stone cabin. Strong ser alt'd & Fe stained dacite, qtz vein frags. Probable site of Leadville claims.
 - SL-103 Rotary cuttings pile - consists of ser + chlor alt'd dacite w/ 1% py.
 - SL-104 Strongly sericitized dacite tuff, no sign of chlor, 1% py casts.
 - SL-105 Strongly Fe stained, ser alt'd dacite, up to 5% py casts.
 - SL-106 Very strongly sericitized dacite cut by thin irreg qtz + alunite vnls.
 - SL-107 Ser alt'd dacite w/ limonite vnls, small exposure, most of area appears to be Qal.
 - SL-108 Small trench: ser + chlor alt'd dacite tuff, minor limonite vnls, no py casts.
 - SL-109 Ser + chlor alt'd dacite, Fe-stained, tr. py casts.
 - SL-110 Chor alt'd w/ minor ser dacite flow. Schistose, epid. Essentially prop alt'd w/ several qtz veins in vicinity.
 - SL-111 Schistose dacite, extremely sericitized w/ qtz ± py vnls, coarse white mica probably prophyllite.
 - SL-112 Strongly silicified dacite tuff, w/ rounded qtz eyes, bleached white, minor hem impreg.
 - SL-113 Sericitized dacite w/ rounded qtz eyes, hard breaking.
 - SL-114 White, strongly sericitized, schistose dacite.
 - SL-115 Extremely sericitized, white mica schist. Rock is essentially nothing but greyish mica.
 - SL-116 Same as SL-115 cut by occasional lt grey silica vnls.
 - SL-117 Ser alt'd white dacite tuff cut by supergene(?) alunite vnls, rare dis py vnls.
 - SL-118 Fine-grained silicified sheared dacite(?) w/ very coarse white mica. Some qtz vnls, possibly a fault zone; looks juicy.
 - SL-119 Bx sil rhyolite outcrop 50-60' thick, very strongly hem stained.
 - SL-120 Silicified rhyolite w/ coarse white mica on joint planes.
 - SL-121 Sil lt grey rhy, qtz eye rich, some dis py, white qtz vnls.
- Samples SL-118-120 mark a bx contact zone of rhy & dacite(?) tuff. Hard to accurately tell tuff composition when so highly alt'd.
- SL-122 Lt grey, completely silicified qtz-eye rich rhyolite, no feldspar or mafic sites seen.
 - SL-123 Bx, sil rhyolite. Bx matrix is silica + hem. Bx occurs locally in a massive silicified knob of rhyolite.
 - SL-124 Qtz rich tuff, prop alt'd, strongly chloritized.
 - SL-125 Prop alt'd dacite flow(?). Specularite, epid, little or no chlor.
 - SL-126 Same as SL-125.
 - SL-127 Coarse white mica (pyroph) schist.
 - SL-128 Fine-grained grey jsp -- specularite impreg. believed to be a rhyolite cut by some white qtz vnls. Rare qtz eyes seen. Fair amt of coarse white mica in the rock.
 - SL-129 Fine-grained dacite flow prop alt'd, epidote vnls.
 - SL-130 Prop alt'd weakly schistose dacite flow, same as SL-129, epid, chlor, hem.
 - SL-131 Qtz-eye rich tuff completely alt'd to white mica schist overlying dacite flow only propylitically alt'd.
 - SL-132 Same as SL-131
 - SL-133 Fine-grained lt grey completely silicified rhyolite dike at

contact w/ white mica schist, minor qtz veining.

SL-134 White mica schist containing irregular qtz veins.

SL-135 Same as SL-134

SL-136 Lt grey, completely sil, specularite-bearing rhy dike.

FROM: W. L. KURTZ

2-9-87

To: JDSell

Norm Dawsoniger called
Re: Sugarloaf Area,
Quartzite, AZ

Told him you were interested
and would call him. He
may have some other data
for you

August 19, 1991

W.L. Kurtz

N.E. Dausinger, Jr. Submittal
Sugarloaf Peak
Quartzite District
La Paz County, Arizona

In reviewing the Cominco drill/assay data supplied by Mr. Dausinger of August 12, 1991, on his Sugarloaf Peak gold prospect near Quartzite, Arizona, I conclude that SWED is still not interested in pursuing the project.

The best hole by Cominco was CS-7 drilled outside Dausinger's favored target area. CS-7 was angled to the south and reported 125' of 0.030 opt gold from 135' to 260'. This includes 25' of 0.056 from 235'-260'. Recalculating the intervals:

135'-235' = 100' of 0.024 opt Au
235'-260' = 25' of 0.056 " "

135'-260' = 125' of 0.030 opt Au

Thus this significant interval of 125 feet of 0.030 opt Au is broken down into 100' of little interest and 25' of interest. The higher grade intercept is probably a quartz vein or a mineralized shear cut in this angled hole.

Figure 1, attached, is a portion of P.J. Bartos' report of June 9, 1987 on the Sugarloaf Peak area. Five of the Cominco holes have also been added to Figure 1.

Drill hole CS-7 is surrounded by old holes WW-2, SWR-1, and SWR-2, in the lower left portion of the figure.

Dausinger reported that the hole had the following footage-assay, with a 0.01 opt gold cut off:

WW-2, 105 feet of 0.020 opt gold
SWR-1, 135 feet of 0.018 opt gold
SWR-2, 185 feet of 0.021 opt gold.

These values are not of viable interest and helped Bartos say "No further work is recommended."

I noted Dausinger's submittal to you included a penciled note on hole CS-7 showing "225' of 0.027 Au." The entire list of CS-7 was:

<u>Interval</u>	<u>Apparent Thickness</u>	<u>Au (opt)</u>
15'-20'	10'	0.023
35'-85'	50'	0.023
90'-130'	40'	0.021
135'-260'	<u>125'</u>	<u>0.030</u>
and indeed:	225'	0.027

but -- Dausinger did not include the intervals/grades from 20'-35', 85'-90', nor 130'-135', or 25' of unspecified grade!

As Dausinger's previous listing of the drill holes, with a cut off of 0.01 opt gold (Table 1 of Bartos), did not give the interval used in the footage calculation, I relooked at the three holes and found out that Dausinger had done the same thing -- added all the footages with grades of 0.010 or better for the total hole to give his footage-assay. In the case of WW-2, 29 intervals of less than 0.010 opt were not included; SWR-1, 53 intervals; and in SWR-2, 43 intervals not included.

I have not checked the remaining holes in the list (Bartos' Table 1), but I would assume the same method of calculation -- include only the 0.01 or better irregardless of their position or continuity in the hole; thus all of his footage/assay values are questionable and in the final analysis undoubtedly will be lower than reported by Dausinger.

Table 2 is my recalculation using all the assays within the footages given.

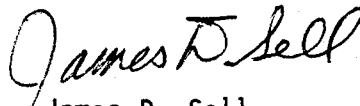
Table 2. Drill hole footage-assay data, all intervals.

<u>Hole No.</u>	<u>Footage</u>	<u>Feet at opt Au (all assays).</u>	
CS-7	135'-260'	125'	0.030
WW-2	10'-115'	105'	0.014
SWR-1	45'-180'	135'	0.014
SWR-2	5'-190'	185'	0.016

The Sugarloaf Peak has been extensively drilled to a depth of 250 feet and 10 of the 18 SWR-series tested to 400 feet of depth (many angle holes, however)

with the resulting "resource" at less than 0.02 opt gold, it would appear that values at depth would need to increase rapidly for any further SWED interest. Unless we are interested in the nonmetallic pyrophyllite resource, then no further work is recommended.

JDS:mek


James D. Sell

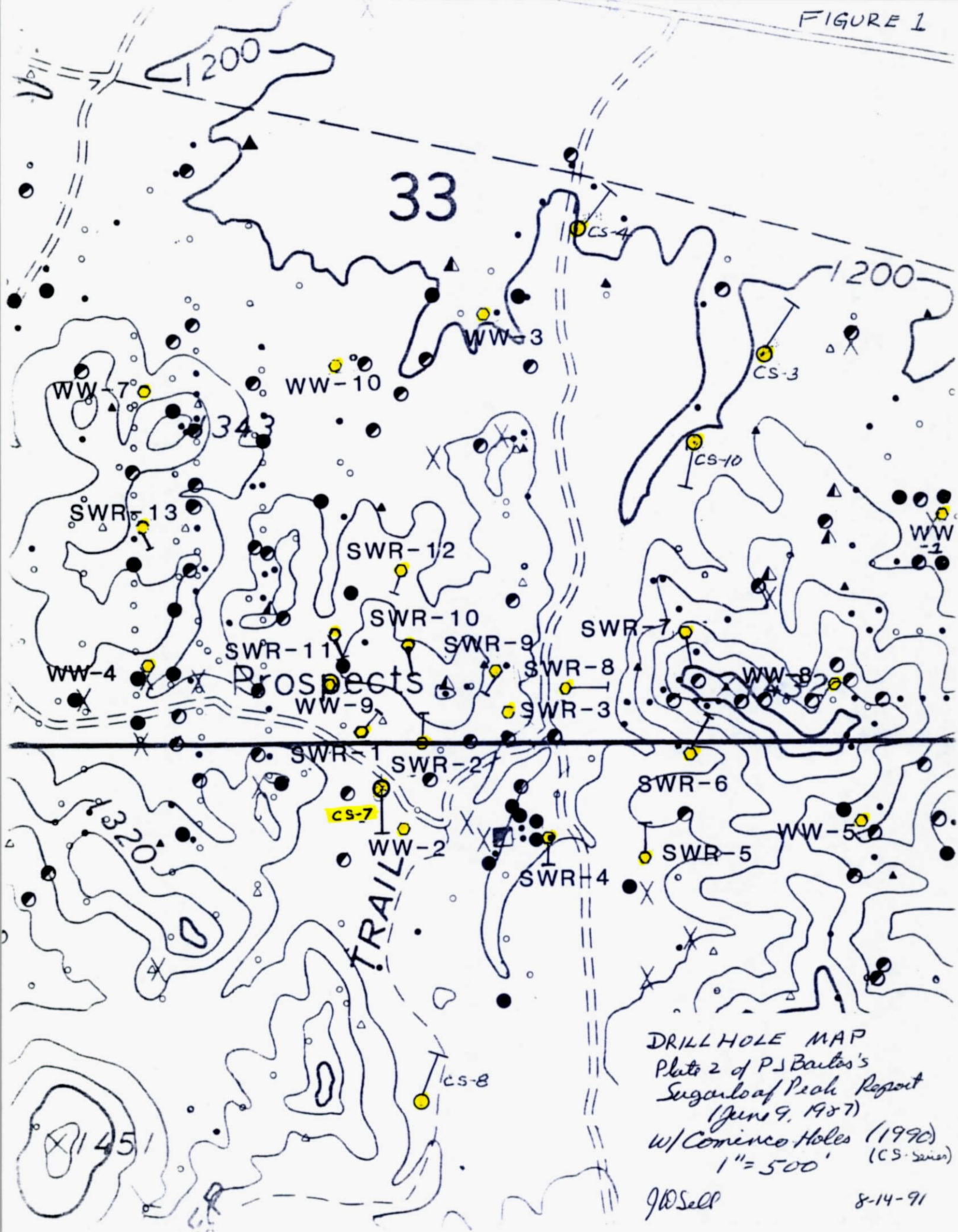


FIGURE 1

