

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRELIMINARY REPORT ON SAMPLES COLLECTED DURING LITHIUM RECONNAISSANCE
STUDIES IN UTAH AND IDAHO

By Richard K. Glanzman and Allen L. Meier

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This report is preliminary and has not been edited or reviewed for conformity with
U.S. Geological Survey standards or nomenclature

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Rock and water samples were collected in southern Idaho and throughout Utah to determine the distribution and geochemical environment of lithium deposition from which exploration methods and a preliminary lithium resource evaluation could be made. Sedimentary and altered volcanoclastic sediments were primary sample sites particularly at hot spring localities and geothermal areas. Water samples were collected at the same sample sites to approximately define the lithium water-rock relationship. Areas of high evaporation--Great Salt Lake, the Great Salt Lake Desert, Pilot Valley, and Sevier Lake--were among the primary sampling sites. Lithium and its relationship with other elements and mineralogy for these sites have been described by Glanzman (1977). Lithium in water samples collected from all sources in Utah is described in Glanzman and Meier (1976).

Lithium was determined on rock and water samples by atomic absorption using a method described by Meier (1976). Water samples were collected in 250 milliliter polyethylene bottles. The senior author was assisted in the field by Michael Hannigan, Alan Wanek, and Harold Downey. X-ray diffractometer analyses were run by Robert Brown. Selected samples in the Spor Mountain-Honeycomb Hills areas of west-central Utah were analyzed for equivalent uranium by I. C. Frost; uranium and thorium by neutron activation by H. T. Millard, Jr., A. J. Barfell, R. S. Knight, P. Hemming, J. O'Kelley, and R. White; and fluorine by A. L. Meier. A. L. Meier was assisted in the field by J. Seward.

The analytical results are tabulated by State and by county in each State. Rock and sediment samples are reported on one table and the water analyses on a second table for each State. The sample localities are shown on State maps (figs. 1 and 4) with separate maps for the Spor Mountain (fig. 2) and for the Honeycomb Hills area (fig. 3). The figure or figures before the hyphen of sample numbers indicate the year the sample was collected (analyzed in a few cases). The number following the hyphen is the field serial number. Multiple samples collected at the same locality or stratigraphic sequence in one area are indicated by letters. For example, 74-102A indicates that the sample was acquired in 1974, was the 102nd sample acquired that year, and was the first sample at that locality or sequence in one area. Sample 74-102B was the second, and so on. Sample localities are grouped on the outline maps where they are too close to indicate individually because of the map scale.

Cited References

- Glanzman, R. K., 1977, Geochemical and mineralogical comparison of surficial materials in the Great Salt Lake Desert, Pilot Valley, and Sevier Lake, Utah, *in* Greer, D. C., Proceedings from International Conference on Desertic Terminal Lakes, Weber State College, May 2-5, 1977, Utah Water Research Laboratory, Utah State University, Logan: p. 183-196.
- Glanzman, R. K., and Meier, A. L., 1976, Lithium brines associated with nonmarine evaporites, *in* Vine, J. D., ed., Lithium resources and requirements by the year 2000: U.S. Geological Survey Professional Paper 1005, p. 88-92.
- Meier, A. L., 1976, Analytical methods and problems of lithium determination in rocks, sediments, and brines, *in* Vine, J. D., ed., Lithium resources and requirements by the year 2000: U.S. Geological Survey Professional Paper 1005, p. 161-162.

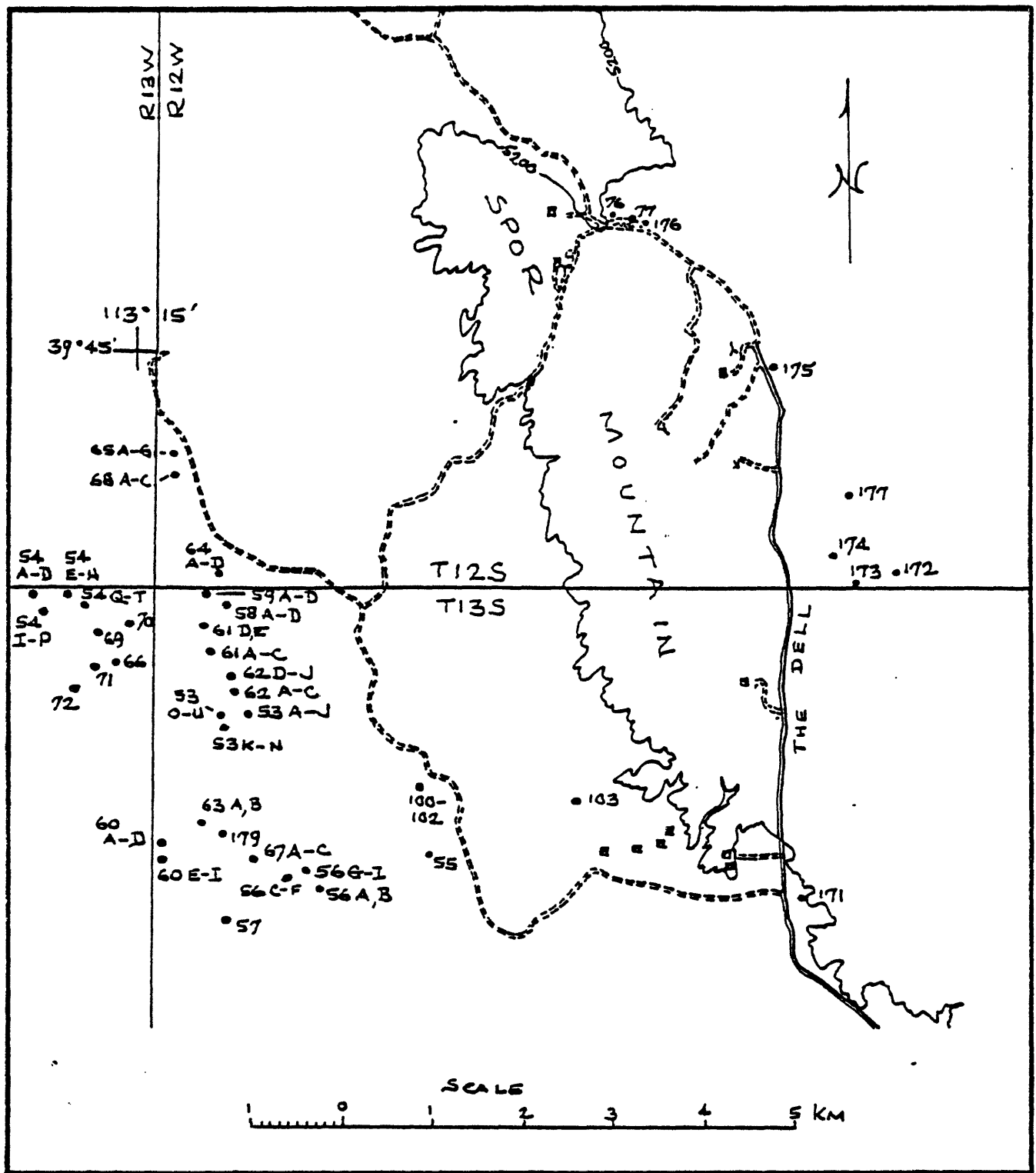


Figure 2.--Sample localities in the Spor Mountain area, west-central Utah (1974, 1975).

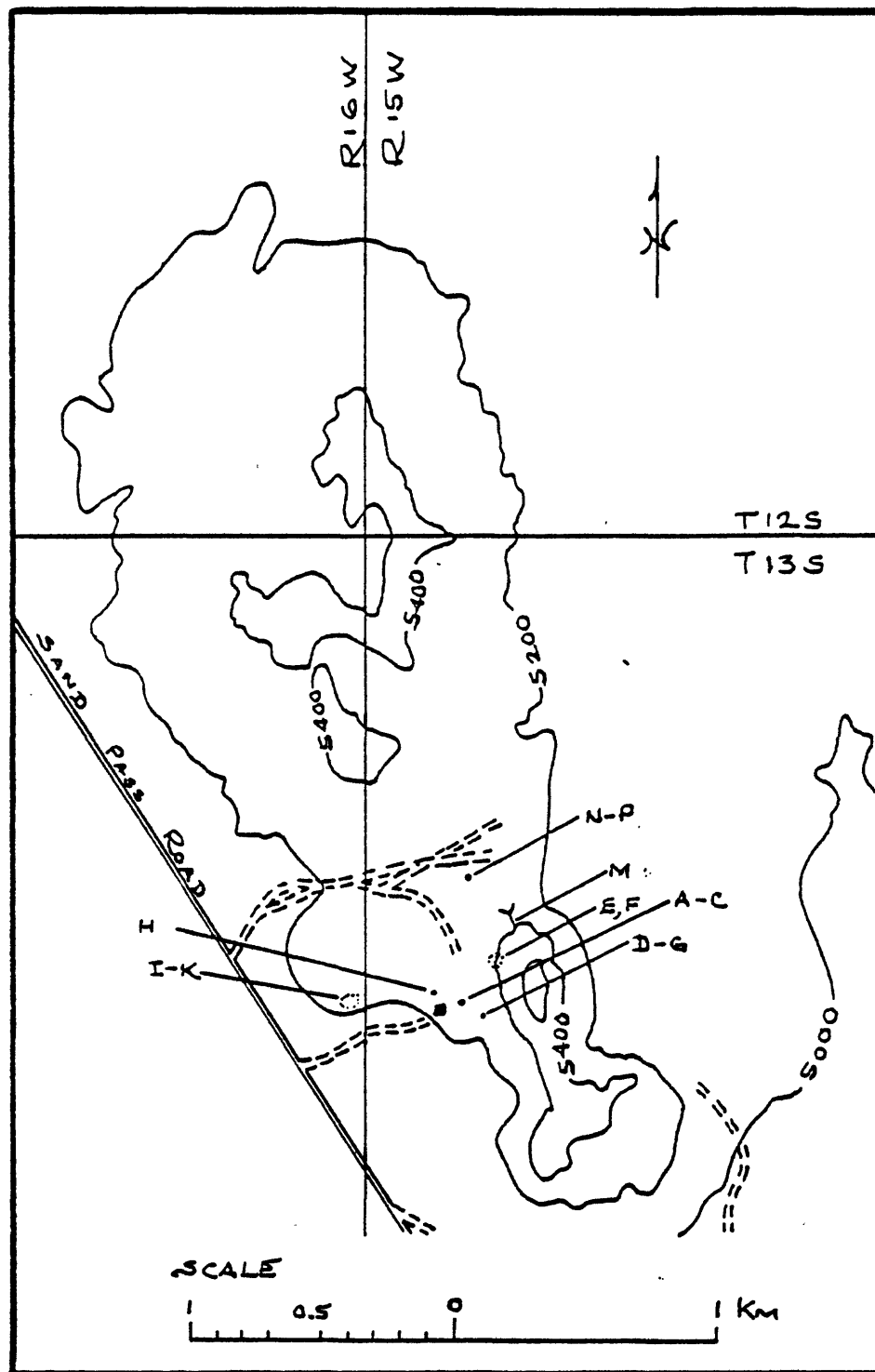


Figure 3.--Sample localities designated by field number 75-80 collected in the Honeycomb Hills area, west-central Utah.

Table 1.--Lithium content and whole rock mineralogy of rock samples collected in Utah, 1974-1976

[Asterisks (**) indicate not detected or no data in the mineralogy column and no data in the other columns. X-ray diffraction traces were generated by Cuk alpha radiation at 34 kilovolts and 18 milliamperes scanned at 2 degrees per minute. Full scale represented by 10 inches on the chart paper trace indicated 3,000 counts per second on the X-ray machine. The value listed for each mineral is the height of the major peak for that mineral in inches.]

Field No.	Rock Type	Formation	Age	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BEAVER COUNTY																
75-161F	intrusive	—	T	Groverwash	36	28S	13W	1	—	2.1	—	1.4	0.4	—	—	—
75-161G	rhysolite	—	"	"	"	"	"	15	—	1.1	—	7.6	2.0	—	—	Cr 1.2
75-161H	sulfur	—	"	"	12	"	14W	1	—	—	—	—	—	—	—	Sulfur 5.0 Cr 1.5
75-161I	ruff	—	"	"	"	"	"	4	—	—	—	5.7	—	—	—	B 7.0
75-161A	alunite	—	"	"	12	29S	13W	27	2.4	—	—	—	—	—	—	Cr 7.9
75-161B	kaolinite	—	"	"	"	"	"	42	2.2	—	—	—	—	—	—	Cr-G9
75-161C	rhysolite	—	"	"	"	"	"	64	1.5	2.2	0.9	2.1	3.9	—	—	Cr 1.8
75-161D	breccia	—	"	"	"	"	"	39	2.4	—	—	—	—	—	—	Cr 4.3
75-161E	intrusive	—	"	"	6	29	13W	34	0.2	0.3	0.2	6.0	4.5	—	—	—
74-193	clay-sand	—	QT	Roosevelt Hot Springs	34	26S	9W	11	—	—	—	—	—	—	—	—
75-182A	alteration	Monte Cristo Ls.	M	Beaver Lake Mtn	21	"	11W	11	—	—	—	—	—	—	—	—
75-182B	intrusive	—	T	"	"	"	"	20	—	—	—	—	—	—	—	—
75-182C	ore	Monte Cristo Ls.	M	"	"	"	"	27	—	—	—	—	—	—	—	—
75-170A	diorite	—	T	Wah Wah Summit	29	26S	15W	37	—	—	0.6	7.0	4.9	—	—	Biotite 4.8
75-170B	rhysolite	—	"	"	"	"	"	13	—	2.0	—	5.2	6.3	—	—	—
75-170C	andesite	—	"	"	"	"	"	20	—	0.5	—	3.8	3.8	—	—	Amphibole 0.8
75-170D	alteration	—	G	"	"	"	"	10	—	—	—	—	—	G9	—	—
75-170G	"	—	"	"	"	"	"	< 1	—	—	—	—	—	G9	—	—
75-170F	"	—	"	"	"	"	"	17	0.6	—	—	—	—	2.7	—	—
75-170G	"	—	"	"	"	"	"	7	1.3	—	—	—	—	G9	—	—
75-170H	volcanic	—	T	"	"	"	"	24	—	1.1	1.1	6.1	3.4	—	—	Hornblende 1.4
75-181A	qtr. monz.	—	T	Rocky Range	22	27S	11W	11	—	—	—	—	—	—	—	—
75-181B	alteration	Toroweap Fm.	P	"	"	"	"	< 1	—	—	—	—	—	—	—	—
75-181C	"	"	"	"	"	"	"	6	—	—	—	—	—	—	—	—
75-181D	ore	"	"	"	"	"	"	7	—	—	—	—	—	—	—	—
74-189A	clay	—	T	Frisco Mining District	14	27S	13W	15	—	—	—	—	—	—	—	—
74-189B	"	—	"	"	"	"	"	12	—	—	—	—	—	—	—	—
74-189C	"	—	"	"	"	"	"	10	—	—	—	—	—	—	—	—
74-189D	ore	—	"	"	"	"	"	7	—	—	—	—	—	—	—	—
74-192	alteration	Toroweap Fm.	P	Squaw Peak	34	27S	13W	13	—	—	—	—	—	—	—	—
75-159A	ore	Kaibab Limestone	P	Mineral Mtns.	29	28S	8W	55	—	—	—	3.9	—	1.6	—	Muscovite 2.6 Chlorite-G9 Chlorite 2.0 Muscovite 1.9
75-159B	intrusive	—	T	"	"	"	"	24	—	—	—	G9	G9	—	—	—
75-159C	alteration	—	"	"	"	"	"	3	—	—	—	4.0	—	G9	7.8	Muscovite 8.8
75-159D	ore	Kaibab Limestone	P	"	31	28S	8W	45	0.8	1.5	0.4	3.2	3.3	2.1	—	Sphalerite 2.8 Chalcopryrite 2.2
75-159E	"	"	"	"	"	"	"	7	—	—	—	2.0	—	G9	G9	—
75-159F	alteration	—	T	"	11	29S	9W	1	—	—	—	—	—	G9	3.4	—
75-159G	ors	Kaibab Limestone	P	"	"	"	"	23	—	—	—	0.4	—	1.9	—	Sphalerite 4.2 Amphibole 1.9

Table 1.—Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BEAVER COUNTY (CONT'D)																
75-159H	intrusive	—	T	Mineral Mtns.	11	29S	9W	23	—	—	—	—	G9	—	—	Amphibole 7.5
75-159I	alteration	—	"	"	"	"	"	120	—	—	—	—	5.5	—	—	—
75-159J	"	—	"	"	"	"	"	69	8.4	—	—	—	—	G9	—	H 1.6
75-159K	"	—	"	"	"	"	"	2	0.6	—	—	—	—	G9	G9	—
75-159L	intrusive	—	"	"	"	"	"	11	2.4	0.6	—	G9	G9	—	—	—
75-159M	ore	Kaibab Limestone	P	"	"	"	"	22	5.0	—	0.6	1.2	4.9	3.1	—	—
76-5A	alteration	Moenkopi Fm.	R	Star Range	13	28S	12W	48	—	—	—	—	—	—	—	—
76-5B	"	"	"	"	"	"	"	10	—	—	—	—	—	—	—	—
76-5C	"	"	"	"	"	"	"	150	—	—	—	—	—	—	—	—
76-5D	clay	"	"	"	"	"	"	13	—	—	—	—	—	—	—	—
76-5E	alteration	"	"	"	"	"	"	75	—	—	—	—	—	—	—	—
76-5F	"	"	"	"	"	"	"	21	—	—	—	—	—	—	—	—
76-5G	"	"	"	"	"	"	"	52	—	—	—	—	—	—	—	—
76-5H	"	"	"	"	"	"	"	25	—	—	—	—	—	—	—	—
76-14A	"	Callville-Pakoon	PP	"	36	28S	12W	19	—	—	—	—	—	—	—	—
76-14B	"	"	"	"	"	"	"	73	—	—	—	—	—	—	—	—
74-190	ore	Dome Limestone	C	Wah Wah Mtns.	26	28S	16W	26	—	—	—	—	—	—	—	—
74-191	gouge	Prospect Mtn. Quartzite	"	"	27	"	"	26	—	—	—	—	—	—	—	—
75-86A	clay	—	T	"	30	29S	15W	38	G10	—	—	—	—	—	—	—
75-86B	"	—	"	"	"	"	"	43	—	—	—	—	—	—	—	—
75-86C	"	—	"	"	"	"	"	93	0.6	5.9	7.5	6.8	2.3	0.4	0.3	—
75-86D	"	—	"	"	"	"	"	47	G10	—	—	—	—	—	—	—
75-87A	"	—	"	"	"	"	"	13	G10	—	—	—	—	—	—	—
75-87B	"	—	"	"	"	"	"	42	G10	—	—	—	—	—	—	—
75-87C	"	—	"	"	"	"	"	22	10	—	—	1.4	—	—	—	Natroshunite-GS
75-87D	"	—	"	"	"	"	"	31	G10	—	—	—	—	—	—	—
75-87E	alteration	—	"	"	"	"	"	10	—	—	—	—	—	—	G10	—
75-88A	fluorite	Sevy Dolomite	D	"	36	"	16W	15	—	—	—	—	—	—	—	F-G10
75-88B	clay	"	"	"	"	"	"	86	—	—	—	G9	—	—	—	Corrensita?2.7
75-88C	fluorite	"	"	"	"	"	"	27	—	—	—	—	—	—	—	F-G10
74-187	travertine	Spring deposit	Q	Minersville	7	30S	9W	15	—	—	—	—	—	—	—	—
74-256A	soil	Regolith	"	Thermo Hot Spring	21	—	12W	29	—	—	—	—	—	—	—	—
74-256B	"	"	"	"	"	"	"	44	—	—	—	—	—	—	—	—
74-256C	"	"	"	"	"	"	"	39	—	—	—	—	—	—	—	—
74-188B	clay	Spring deposit	"	"	22	"	"	540	—	—	—	—	—	—	—	—
74-160I	rhyolite	—	T	"	26	"	"	23	—	—	—	—	4.1	—	—	Cr 3.0
74-255A	soil	Regolith	Q	"	29	"	"	52	—	—	—	—	—	—	—	—
74-255B	"	"	"	"	"	"	"	45	—	—	—	—	—	—	—	—
74-255C	"	"	"	"	"	"	"	54	—	—	—	—	—	—	—	—

Table 1.—Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BEAVER COUNTY (CONT'D)																
75-162A	alteration	Regolith	G	Wah Wah Mtns.	16	30S	14W	68	0.3	—	—	—	—	—	—	Gy 0.9 Natroalunite 4.5
75-162g	"	—	"	"	"	"	"	18	1.6	—	—	—	—	—	—	—
75-162f	"	—	"	"	"	"	"	27	—	—	—	4.5	—	—	0.4	Jarosite 1.1
75-162d	"	—	"	"	"	"	"	230	2.1	—	—	—	—	G9	—	H 1.1
75-163A	fluorite	—	T	Needle Range	4	30S	18W	32	—	—	—	1.5	—	—	—	F 1.1
75-163B	intrusive	—	"	"	"	"	"	140	—	0.2	0.4	G9	—	—	—	F-G9
75-163C	"	—	"	"	"	"	"	48	0.7	0.5	—	G9	—	2.7	—	F 2.0
75-163D	"	—	"	"	9	"	"	42	—	0.3	0.1	G9	2.8	0.6	—	—
75-163E	alteration	—	"	"	10	"	"	24	—	1.5	0.5	3.0	0.4	1.0	—	—
75-163F	"	—	"	"	"	"	"	60	—	—	0.5	7.0	0.8	—	—	—
75-163G	fluorite	—	"	"	"	"	"	97	—	—	—	G9	—	G9	—	F 3.8
75-163H	alteration	—	"	"	"	"	"	24	2.8	—	—	—	—	—	—	Cr 3.6
74-256A	"	Alluvium	T	Thermo Hot Springs	21	30S	12W	29	—	—	—	—	—	—	—	—
74-256B	"	"	"	"	"	"	"	44	—	—	—	—	—	—	—	—
74-256C	"	"	"	"	"	"	"	39	—	—	—	—	—	—	—	—
74-257B	"	"	"	"	28	"	"	110	—	—	—	—	—	—	—	—
74-257D	"	"	"	"	"	"	"	110	—	—	—	—	—	—	—	—
74-257E	"	"	"	"	"	"	"	113	—	—	—	—	—	—	—	—
74-255A	"	"	"	"	29	"	"	52	—	—	—	—	—	—	—	—
74-255B	"	"	"	"	"	"	"	45	—	—	—	—	—	—	—	—
74-255C	"	"	"	"	"	"	"	54	—	—	—	—	—	—	—	—
BOX ELDER COUNTY																
75-115A	clay	Lake beds	Q (?)	Newfoundland Mtns.	20	5N	12W	130	0.3	0.8	—	5.1	—	3.6	1.2	H 2.1
75-115B	"	"	"	"	"	"	"	100	0.4	1.2	—	G9	1.9	2.5	1.9	H 2.2
75-115C	"	"	"	"	"	"	"	270	0.3	0.8	—	6.7	1.0	2.1	1.6	H 2.1
75-115D	"	"	"	"	"	"	"	110	0.3	0.7	—	3.0	—	1.3	0.6	H 2.0 Ar 1.5
75-115E	"	"	"	"	"	"	"	110	0.3	0.7	—	4.5	—	2.1	0.8	H 1.8 Ar 1.2 H 3.0
75-118A	"	"	"	"	16	"	13W	110	0.2	0.9	—	4.0	0.7	2.3	1.4	Ar 0.5 Ba 0.5
75-118B	"	"	"	"	"	"	"	100	—	—	—	1.0	—	0.7	0.3	H-G9 Ar 1.2
75-118C	"	"	"	"	"	"	"	78	0.2	0.4	—	2.5	—	1.2	1.0	H 1.8 Ar 2.3
75-117A	"	"	"	"	"	"	"	95	0.2	0.8	—	4.3	0.6	2.4	1.2	H 2.2 Gy-G9 Ar 0.3
75-117B	"	"	"	"	"	"	"	97	0.2	0.4	—	2.6	—	1.1	1.0	H 1.4 Ar 3.1
75-117C	"	"	"	"	"	"	"	73	0.2	0.3	—	1.5	—	1.0	0.6	H 1.0 Ar 2.8
75-116A	"	"	"	"	24	5N	13W	120	0.2	0.6	—	4.0	—	2.3	1.1	H 2.1 Gy 2.2 Ar 0.4
75-116B	"	"	"	"	"	"	"	110	0.2	0.6	—	4.3	—	2.3	1.2	H 1.9 Ar 1.5
75-116C	"	"	"	"	"	"	"	100	0.2	0.4	—	4.3	—	1.8	0.8	H 3.0 Ar 0.3
75-116D	"	"	"	"	"	"	"	82	0.2	0.3	—	1.3	—	1.0	0.4	H 1.8 Ar 2.5

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BOX ELDER COUNTY (CONT'D)																
75-116F	clay	Lake beds	Q(?)	Newfoundland Mtns.	24	5N	13W	76	0.2	0.3	—	2.0	—	0.9	0.6	H 1.3 Ar 2.8
75-110B	"	"	"	Pilot Valley	36	"	19W	120	0.3	0.9	—	8.2	1.2	2.6	1.4	H 3.2
75-110C	"	"	"	"	"	"	"	80	0.3	0.8	0.3	9.3	0.6	2.3	1.4	H 1.6
75-110D	"	"	"	"	"	"	"	140	0.3	0.8	0.3	6.0	0.5	1.8	0.5	H 2.3
75-112A	"	"	"	Lakeside	19	6N	9W	84	—	0.4	—	6.8	—	2.9	1.4	H 1.8 Ar 2.8
75-112C	"	"	"	"	"	"	"	50	—	—	—	1.0	—	0.5	0.5	H 2.0 Ar 4.1
75-48B	"	"	"	Strongknob	11	6N	10W	40	—	—	—	0.9	—	—	—	H 3.9 Gy 5.3 Ar 2.3
75-113A	"	"	"	"	22	"	"	62	—	0.3	—	1.4	—	0.8	0.6	H 3.5 Gy 1.8 Ar 1.7
75-113B	"	"	"	"	"	"	"	35	—	—	—	0.2	—	1.0	0.3	H 0.7 Ar 3.7
75-113C	"	"	"	"	"	"	"	34	—	—	—	0.1	—	0.2	0.2	H 0.1 Ar 3.8
75-49A	"	"	"	Olney	10	6N	11W	48	—	—	—	G9	6.1	3.3	2.3	H 0.5 Ar 0.1
75-49B	"	"	"	"	"	"	"	77	—	0.4	—	7.7	1.0	3.1	3.8	H 0.3
75-114A	"	"	"	"	12	6N	11W	100	—	0.4	—	3.2	—	1.6	0.9	H 4.2 Ar 1.5
75-114B	"	"	"	"	"	"	"	150	0.2	0.4	—	3.1	—	1.6	4.1	H 4.2 Ar 0.3
75-114C	"	"	"	"	"	"	"	110	0.2	0.4	—	4.1	1.5	—	7.1	H 2.3
75-114D	"	"	"	"	"	"	"	110	0.3	0.8	—	7.2	1.5	2.7	2.0	H 2.3
75-120A	"	"	"	"	4	"	12W	160	0.2	0.7	—	4.5	0.8	2.1	1.3	H 6.5 Gy 1.2
75-120B	"	"	"	"	"	"	"	73	0.3	0.8	—	G9	1.0	3.0	2.4	H-G9
75-120C	"	"	"	"	"	"	"	72	0.2	0.3	—	4.2	0.3	1.5	1.2	H 0.8 Ar 0.1
75-120D	"	"	"	"	"	"	"	67	0.3	1.2	—	7.7	1.0	2.8	1.8	H 1.2 Ar 0.1
75-112B	iron oxides	Spring deposit	"	Utah Hot Springs	14	7N	2W	90	0.2	0.6	—	3.2	—	4.7	—	H 2.5
75-95B	clay	Lake beds	"	Bear River Bay	17	"	5W	95	0.4	0.9	0.2	5.2	0.8	2.6	2.6	H 0.6
75-95C	"	"	"	"	"	"	"	90	0.3	0.9	0.3	7.0	0.5	2.4	3.0	H 0.6
75-95D	"	"	"	"	"	"	"	60	0.6	1.0	0.4	7.3	5.3	2.7	1.8	H 1.5
75-119A	"	"	"	Grooms	35	7N	13W	120	0.2	0.7	—	6.6	0.7	2.6	2.0	H 5.0 Gy 0.5 Ba 0.6
75-119B	"	"	"	"	"	"	"	63	—	—	—	—	—	—	—	—
75-119C	"	"	"	"	"	"	"	60	0.1	0.3	—	2.0	—	0.8	1.2	H 0.7 Ar 2.9
75-119D	"	"	"	"	"	"	"	87	0.3	0.4	—	2.1	—	1.0	0.7	H 1.2 Ar 2.3

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BOX ELDER COUNTY (CONT'D)																
74-131	clay	Lake beds	Q(?)	Lucin	3	7N	18W	60	0.3	0.7	0.2	7.0	0.5	3.4	1.0	Gy 0.4
74-128A	tuff	Salt Lake Gp.	T	Pigeon Mtn.	1	8N	17W	34	0.2	0.2	1.5	3.7	0.3	0.8	0.2	H 0.3
74-128B	"	"	"	"	"	"	"	20	—	—	2.6	0.3	—	—	—	—
75-154A	meta-morphic	Pogonip Gp.	O	Grouse Ck. Mtns.	14	9N	17W	70	—	G9	—	G9	G9	3.5	—	Corrensite 4.8
75-154B	"	"	"	"	"	"	"	20	—	5.4	—	G9	—	—	—	Corrensite 20.5
74-115B	clay	Salt Lake Gp.	T	Bear River City	"	10N	3W	35	0.7	1.5	0.3	9.3	0.6	2.3	1.1	Gy 0.3
74-115C	"	"	"	"	"	"	"	40	0.7	1.6	0.3	9.5	0.9	2.4	1.2	—
74-115D	"	"	"	"	"	"	"	43	0.9	2.1	0.3	G10	0.6	2.5	1.4	—
75-115E	"	"	"	"	"	"	"	46	0.8	1.9	0.3	G10	0.5	2.4	1.3	—
75-115F	"	"	"	"	"	"	"	70	0.8	1.5	0.2	8.0	0.6	1.6	1.1	Gy 0.8
74-115G	gypsum	"	"	"	"	"	"	19	0.7	1.1	—	4.7	—	2.6	—	Gy-G10
74-115H	clay	"	"	"	"	"	"	50	0.5	0.8	—	9.5	0.6	2.8	1.2	—
74-115I	"	"	"	"	"	"	"	48	0.6	1.1	0.2	G10	0.6	3.0	0.9	Gy 1.2
74-115J	"	"	"	"	"	"	"	51	0.5	0.8	—	8.2	2.9	0.8	—	—
74-118	"	"	"	Sulfur Ck.	20	10W	3W	55	0.3	0.7	0.2	9.2	—	3.3	1.2	H 0.7 Ap 0.8
74-116	"	Lake beds	(?)Q	Bear River City	22	"	"	23	0.1	0.2	—	1.8	0.2	10	0.2	H 0.3
74-119A	salt	"	"	Sulfur Ck.	30	"	"	15	—	—	—	—	—	—	—	H-G10
74-119B	clay	"	"	"	"	"	"	70	0.3	0.9	0.2	9.5	0.6	2.4	2.3	H 5.0
74-119C	"	"	"	"	"	"	"	44	0.4	1.1	0.2	G10	1.1	2.9	4.0	H 2.1
74-119D	"	"	"	"	"	"	"	90	0.7	1.5	0.3	9.4	0.5	2.6	1.2	H 1.3
74-89B	"	Alluvium	"	"	"	"	"	60	0.4	1.1	0.2	9.5	0.9	3.6	2.8	H 1.6
74-90B	salt	Pond sediment	"	"	"	"	"	33	0.2	0.6	0.2	4.8	0.4	2.4	0.4	H 9.7
74-90C	clay	"	"	"	"	"	"	120	—	—	—	—	—	—	—	H-G10
74-99	"	Lake beds	"	Penrose	15	10N	4W	65	0.6	1.1	—	8.9	—	3.5	1.3	—
74-92	"	"	"	Little Mtn.	26	"	"	50	0.5	0.8	0.3	G10	1.1	2.8	2.4	H 0.4
74-93A	"	"	"	"	29	"	"	60	0.6	1.5	0.2	G10	1.0	3.4	1.4	H 1.1
74-93B	"	"	"	"	"	"	"	40	0.8	1.6	0.4	9.3	0.7	3.0	1.8	H 0.5
75-153A	copper minerals	Guilmette Fm.	D	Rosebud	21	"	16W	1	—	—	—	G9	—	0.4	—	—
75-153B	alteration	"	"	"	"	"	"	4	—	—	—	G9	—	5.7	—	—
75-153C	copper minerals	"	"	"	"	"	"	13	—	0.3	—	G9	0.7	6.5	4.5	—
74-83B	clay	Alluvium	Q	Tremonton	2	11N	3W	30	0.2	0.7	—	G10	0.7	4.1	1.9	—
74-121	tuff	Salt Lake Gp.	T	Salt Lake Wells Flat	20	"	7W	32	0.3	0.6	0.2	9.6	0.8	6.0	0.7	H 0.3
74-123	clay	Lake beds	(?)Q	Locomotive Sprs.	8	"	9W	38	0.4	0.8	—	G10	3.9	—	—	H 1.6

Table 1.--Continued

Li	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
BOX ELDER COUNTY (CONT'D)																
132B	shale	Salt Lake Gp.	T	Etna	13	11N	19W	18	—	0.4	0.4	7.9	0.3	2.7	0.7	Cr 0.9
132C	clay	"	"	"	"	"	"	15	0.4	—	1.2	G10	2.2	—	0.7	—
122A	"	Lake beds	Q(?)	Salt Well Valley	34	12N	8W	150	—	0.3	0.2	5.5	0.4	4.2	0.6	H 1.9
122B	"	"	"	"	"	"	"	200	0.2	0.4	—	3.4	0.5	5.6	0.8	H 0.7
124A	"	"	"	Kalton	21	12N	11W	60	0.4	0.8	0.2	9.4	0.7	3.6	1.7	H 0.2
124B	"	"	"	"	"	"	"	70	0.4	1.2	0.2	9.5	0.9	3.5	2.0	H 0.3
31	"	Salt Lake Gp.	T	Uddy Hot Sprs.	14	13N	3W	33	0.4	0.8	—	G10	0.8	4.4	1.9	—
30B	"	Alluvium	Q	Malad River	23	"	"	33	0.2	0.6	—	9.4	1.4	2.9	2.0	—
35	tuff	Salt Lake Gp.	T	Park Valley	35	"	13W	36	—	2.5	0.4	G9	2.0	3.6	1.1	Gy 2.4
6B	clay	Alluvium	Q	Portage	4	14N	3W	60	0.2	0.5	—	3.2	1.2	0.2	1.5	—
7B	"	"	"	"	5	"	"	55	0.3	0.7	0.3	5.0	0.5	2.9	0.4	H 0.8
52A	tuff	—	T	Kalton	12	11N	12W	6	0.5	1.9	—	3.2	3.6	—	—	C 1.6
52B	"	—	"	"	"	"	"	7	6.5	—	—	6.0	4.1	—	—	C 2.5 Mica 2.5
52C	"	—	"	"	"	"	"	36	—	—	—	—	0.6	—	—	—
52E	"	—	"	"	"	"	"	20	—	5.8	—	2.9	G9	1.3	—	—
33A	volcanic	Salt Lake	"	Etna	18	"	18W	26	—	0.6	—	1.6	—	—	—	Gy-G10
33B	olivine	"	"	"	"	"	"	15	—	0.3	0.3	0.4	0.7	—	—	Cr 1.5
CACHE COUNTY																
5A	tuff	Salt Lake	T	Paradise	30	10N	1E	34	0.1	0.4	0.3	4.5	0.7	5.9	0.5	—
5B	clay	"	"	"	"	"	"	34	0.3	0.6	0.4	0.6	3.0	3.8	1.1	—
5	tuff	"	"	Junction Hills	16	12N	2W	27	0.1	0.4	0.2	5.7	3.1	3.5	—	—
5	clay	"	"	"	10	"	"	55	—	0.3	—	1.7	—	G10	—	Cr 0.9
CARBON COUNTY																
5A	shale	Black Hawk Gp.	K	Castlegate	36	12S	9E	40	0.4	0.5	—	G9	1.4	—	—	—
5B	"	"	"	"	"	"	"	36	0.4	0.5	—	G9	1.0	—	—	—
DAVIS COUNTY																
9B	salt	Lake beds	Q	Hooper Hot Sprs.	27	5N	3W	150	—	0.2	—	0.9	—	1.3	—	G10 Gy 0.2
9C	clay	"	"	"	"	"	"	100	—	0.3	—	1.7	—	2.2	—	H 4.7 Gy 0.2
9D	"	"	"	"	"	"	"	19	—	0.3	—	1.5	—	8.7	—	—
9E	"	"	"	"	"	"	"	150	0.3	0.6	0.4	G10	0.5	2.6	1.6	H 0.7

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
DUCHESNE COUNTY (CONT'D)																
74-147	clay	Uinta	T	Starvation Reservoir	23	3S	6W	18	--	--	--	--	--	--	--	--
74-146B	"	Green River	"	Indian Canyon	1	4S	5W	69	--	--	--	--	--	--	--	--
74-146C	"	"	"	"	"	"	"	30	--	--	--	--	--	--	--	--
74-146D	"	"	"	"	"	"	"	35	--	--	--	--	--	--	--	--
74-146E	"	"	"	"	"	"	"	60	--	--	--	--	--	--	--	--
74-146F	"	"	"	"	"	"	"	--	--	--	--	--	--	--	--	--
74-146G	"	"	"	"	"	"	"	--	--	--	--	--	--	--	--	--
74-146H	"	"	"	"	"	"	"	140	--	--	--	--	--	--	--	--
74-146I	"	"	"	"	"	"	"	39	--	--	--	--	--	--	--	--
74-146J	"	"	"	"	"	"	"	100	--	--	--	--	--	--	--	--
74-146K	"	"	"	"	"	"	"	280	--	--	--	--	--	--	--	--
74-146L	"	"	"	"	"	"	"	35	--	--	--	--	--	--	--	--
74-146M	"	"	"	"	"	"	"	27	--	--	--	--	--	--	--	--
74-146N	"	"	"	"	"	"	"	72	--	--	--	--	--	--	--	--
74-146O	"	"	"	"	"	"	"	58	--	--	--	--	--	--	--	--
74-146P	"	"	"	"	"	"	"	130	--	--	--	--	--	--	--	--
74-146Q	"	"	"	"	"	"	"	190	--	--	--	--	--	--	--	--
74-146R	"	"	"	"	"	"	"	140	--	--	--	--	--	--	--	--
74-146S	"	"	"	"	"	"	"	--	--	--	--	--	--	--	--	--
74-146T	"	"	"	"	"	"	"	85	--	--	--	--	--	--	--	--
74-146U	"	"	"	"	"	"	"	21	--	--	--	--	--	--	--	--
74-146V	"	"	"	"	"	"	"	79	--	--	--	--	--	--	--	--
74-146W	"	"	"	"	"	"	"	180	--	--	--	--	--	--	--	--
74-146X	"	"	"	"	"	"	"	210	--	--	--	--	--	--	--	--
74-146Y	"	"	"	"	"	"	"	100	--	--	--	--	--	--	--	--
74-146Z	"	"	"	"	"	"	"	110	--	--	--	--	--	--	--	--
74-146AA	"	"	"	"	"	"	"	120	--	--	--	--	--	--	--	--
74-1A	clay	Uinta	T	Uinta Ouray Ind. 14 Reservoir		4S	5W	190	--	0.2	0.5	1.6	--	6.3	7.3	--
74-1B	"	"	"	"	"	"	"	120	--	0.5	0.3	5.6	2.5	4.0	2.0	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
EMERY COUNTY																
76-21A	sandstone	Shinarump	J	Calif. Mesa	28	20S	11E	27	--	--	--	--	--	--	--	--
76-21B	petrified wood	"	"	"	"	"	"	13	--	--	--	--	--	--	--	--
76-21C	altered	"	"	"	"	"	"	110	--	--	--	--	--	--	--	--
76-21D	shale	"	"	"	"	"	"	40	--	--	--	--	--	--	--	--
76-21E	"	"	"	"	"	"	"	40	--	--	--	--	--	--	--	--
74-163A	siltstone	Summerville	"	Sand Beach	10	23S	7E	38	--	--	--	--	--	--	--	--
74-163B	anhydrite	"	"	"	"	"	"	3	--	--	--	--	--	--	--	--
74-162	dinosaur bone	Morrison	"	San Rafael	14	22S	14E	18	--	--	--	--	--	--	--	--
GARFIELD COUNTY																
74-205A	carbonate	--	T	Antimony	22	31S	1W	8	--	--	--	--	--	--	--	--
74-205B	gypsum siltstone	--	"	"	"	"	"	16	--	--	--	--	--	--	--	--
74-205C	clay	--	"	"	"	"	"	16	--	--	--	--	--	--	--	--
74-205D	sandstone	--	"	"	"	"	"	29	--	--	--	--	--	--	--	--
74-205E	clay & salt	--	"	"	"	"	"	39	--	--	--	--	--	--	--	--
74-205G	clay & gypsum	--	"	"	"	"	"	44	--	--	--	--	--	--	--	--
74-212	silty clay	Wasatch	"	Hatch	13	36S	5W	15	--	--	--	--	--	--	--	--
74-227A	coal clay	Tropic Shale	K	Henrieville	14	37S	2W	70	--	--	--	--	--	--	--	--
74-227B	gypsum siltstone	"	"	"	"	"	"	30	--	--	--	--	--	--	--	--
74-227C	gypsum shale	"	"	"	"	"	"	40	--	--	--	--	--	--	--	--
GRAND COUNTY																
74-161A	shale	Paradox	P	Salt Valley	5	23S	20E	35	--	--	--	--	--	--	--	--
74-161B	"	"	"	"	"	"	"	44	--	--	--	--	--	--	--	--
74-160	gypsiferous shale	"	"	--	7	24S	22E	14	--	--	--	--	--	--	--	--
74-159A	anhydrite	Hermosa	P	Fisher Valley	20-21	"	24E	7	--	--	--	--	--	--	--	--
74-159B	gypsiferous shale	"	"	"	"	"	"	50	--	--	--	--	--	--	--	--
74-159D	anhydrite	"	"	"	"	"	"	30	--	--	--	--	--	--	--	--
74-159E	salt	"	"	"	"	"	"	5	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
GRAND COUNTY (CONT'D)																
74-157A	gypsum	Hermosa	P	Moab	2	26S	21E	5	—	—	—	—	—	—	—	—
74-157B	gypsiferous limestone clay	"	"	"	"	"	"	41	—	—	—	—	—	—	—	—
74-158B	salt	"	"	"	12	"	"	< 1	—	—	—	—	—	—	—	—
IRON COUNTY																
75-160A	basalt	—	T	Black Mtn.	4	31S	11W	16	—	—	0.8	—	G10	—	—	C 1.5
75-160B	igneous	—	"	"	"	"	"	20	—	—	—	0.4	3.2	—	—	Cr 5.5
75-160C	alteration	—	"	"	9	"	"	10	0.3	0.3	—	—	2.2	—	—	Cr 5.8
75-160D	"	—	"	"	"	"	"	41	—	—	—	—	—	—	—	—
75-160H	tuff	—	"	"	11	"	"	28	—	2.5	—	0.6	—	—	—	—
75-160F	"	—	"	"	35	"	"	11	0.4	—	—	G9	1.6	—	—	Cr 1.6
75-164A	siltstone	Muddy Ck.	"	Wah Wah Range	34	"	16W	19	—	—	—	3.5	—	6.0	—	F 0.8
75-164B	siliceous	"	"	"	"	"	"	2	2.3	—	—	0.6	—	—	—	Cr 0.6
74-206	clay	Rogers Park volcanics	"	Buckskin Valley	8	32S	6W	8	—	—	—	—	—	—	—	—
75-165	—	Muddy Ck.	"	Wah Wah Range	17	"	15W	20	—	—	2.8	G9	4.2	1.5	—	—
74-207A	clay	Rogers Park volcanics	"	Little Great Salt Lake	30	33S	9W	33	0.4	0.6	—	2.0	—	1.8	0.6	H 2.0 Ar 1.5
74-207B	"	"	"	"	"	"	"	32	0.4	0.2	—	1.6	—	1.9	0.6	H 2.2
74-207C	"	"	"	"	"	"	"	45	0.3	0.5	—	1.4	—	0.8	—	H 1.0
74-207D	"	"	"	"	"	"	"	32	0.2	0.5	—	1.8	—	1.9	—	H 0.9
74-211A	silty gravel	Muddy Ck.	"	Escalante Desert	14	34S	20W	53	—	—	—	—	—	—	—	—
74-211B	"	"	"	"	"	"	"	41	—	—	—	—	—	—	—	—
75-183A	intrusive	—	"	Three Peaks	13	35S	12W	13	—	—	—	—	—	—	—	—
75-183B	"	—	"	"	"	"	"	27	—	—	—	—	—	—	—	—
75-183C	"	—	"	"	"	"	"	12	—	—	—	—	—	—	—	—
75-183D	"	—	"	"	21	"	"	3	—	—	—	—	—	—	—	—
75-183E	"	—	"	"	"	"	"	27	—	—	—	—	—	—	—	—
75-183F	"	—	"	"	"	"	"	28	—	—	—	—	—	—	—	—
75-183G	"	—	"	"	28	"	"	32	—	—	—	—	—	—	—	—
74-211A	clay	Brian Head Fm	"	Brian Head	13	36S	9W	8	—	—	—	—	—	—	—	—
74-211B	"	"	"	"	"	"	"	18	—	—	—	—	—	—	—	—
74-211C	"	"	"	"	"	"	"	18	—	—	—	—	—	—	—	—
74-208B	"	Valleyfill	Q	Cedar City	21	"	12W	34	—	—	—	—	—	—	—	—

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Location	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
IRON COUNTY (CONT'D)																
75-186	clay	Claron	T	Swett Hills	33	36S	13W	21	--	--	--	--	--	--	--	--
75-185A	hematite, mica	--	T-K	Iron Mountain	35	"	14W	50	--	--	--	--	--	--	--	--
75-185B	alteration	--	"	"	"	"	"	17	--	--	--	--	--	--	--	--
75-185C	mica, limestone	--	"	"	"	"	"	13	--	--	--	--	--	--	--	--
75-185D	limestone	--	"	"	"	"	"	64	--	--	--	--	--	--	--	--
75-185E	"	--	"	"	"	"	"	64	--	--	--	--	--	--	--	--
75-185F	"	--	"	"	"	"	"	100	--	--	--	--	--	--	--	--
75-185G	mica	--	"	"	"	"	"	96	--	--	--	--	--	--	--	--
75-185H	iron ore	--	"	"	"	"	"	< 1	--	--	--	--	--	--	--	--
75-185I	limestone	--	"	"	"	"	"	10	--	--	--	--	--	--	--	--
74-216A	tuff	Muddy Cr.	T	Enterprise	28	36S	19W	20	--	--	--	--	--	--	--	--
74-216B	siltstone	"	"	"	"	"	"	100	--	--	--	--	--	--	--	--
74-216C	"	"	"	"	"	"	"	52	--	--	--	--	--	--	--	--
74-216D	tuff	"	"	"	"	"	"	18	--	--	--	--	--	--	--	--
74-216E	basalt	"	"	"	"	"	"	8	--	--	--	--	--	--	--	--
74-216F	clayey tuff	"	"	"	"	"	"	38	--	--	--	--	--	--	--	--
74-215A	"	volcanic	"	Escalante Desert	33	"	"	77	--	--	--	--	--	--	--	--
74-215B	tuff	"	"	"	"	"	"	67	--	--	--	--	--	--	--	--
JUAB COUNTY																
76-32E	rhyolite	Packard	T	Tintic	15	10S	2W	25	--	--	--	--	--	--	--	--
76-32I	tailings	--	--	"	17	"	"	12	--	--	--	--	--	--	--	--
76-32F	alteration	Packard	"	"	20	"	"	10	--	--	--	--	--	--	--	--
76-33A	clay	Salt Lake Gp.	"	Boulter Pass	13	"	4W	92	--	--	--	--	--	--	--	--
76-32D	agglomerate	--	"	Tintic	25	11S	3W	32	--	--	--	--	--	--	--	--
75-177A	alteration	--	--	Allison Knolls	29	"	6W	21	--	--	--	--	--	--	--	--
75-177B	argillite	Sheeprock Series	pC	"	"	"	"	32	--	--	--	--	--	--	--	--
75-177C	"	"	"	"	"	"	"	62	--	--	--	--	--	--	--	--
75-106A	silt	Lake beds	Q	Fish Springs Flat	1	"	13W	45	--	--	--	--	--	--	--	--
75-106B	"	"	"	"	"	"	"	70	--	--	--	--	--	--	--	--
75-106C	"	"	"	"	"	"	"	55	0.1	0.3	--	6.4	3.5	3.5	5.9	H 0.2, Ar 0.7
75-105A	clay	"	"	"	33	"	"	140	0.2	1.2	--	5.5	1.7	3.0	1.9	Ar 0.5

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAB COUNTY (CONT'D)																
75-105B	clay	Lake beds	Q	Fish Springs Flat	33	11S	13W	190	0.2	0.7	—	9	1.2	3.6	3.8	H 0.9
75-105C	"	"	"	"	"	"	"	240	0.1	0.4	—	2.9	0.3	2.8	1.1	H 0.9 Ar 0.3
75-107A	"	"	"	"	36	"	14W	160	0.2	0.6	—	3.1	1.0	3.6	2.7	H 3.8
75-107B	"	"	"	"	"	"	"	92	0.2	0.5	—	1.8	—	2.8	1.2	H 0.8 Ar 2.7
75-107C	"	"	"	"	"	"	"	82	0.2	0.5	—	1.2	—	2.5	1.2	H 0.4 Ar 3.1
74-177B	breccia	—	T	Thomas Range	15	12S	12W	520	—	—	—	—	—	—	—	—
74-177C	tuff	—	"	"	"	"	"	360	—	—	—	—	—	—	—	—
74-177D	"	—	"	"	"	"	"	44	—	—	—	—	—	—	—	—
74-177E	"	—	"	"	"	"	"	37	—	—	—	—	—	—	—	—
74-177F	tailings	—	"	"	"	"	"	89	—	—	—	—	—	—	—	—
74-176	fluorite	—	Paleozoic	Spor Mtn.	20	12S	12W	17	—	—	—	—	—	—	—	C 5.6, Cr 2.3
74-175	fluorite	—	Paleozoic	"	27	"	"	13	—	—	—	—	—	—	—	—
74-173	soil	Alluvium	Q	The Dell	35	"	"	180	—	—	8.8	—	—	—	—	Gy-G9
74-172A	tuff	—	T	Topaz Mtn.	36	"	"	130	—	—	—	1.1	0.9	—	—	Fluorite 0.3
74-172B	"	—	"	"	"	"	"	48	—	—	—	2.8	3.2	—	0.2	—
74-172C	"	—	"	"	"	"	"	45	—	—	—	1.9	1.4	—	—	—
74-172D	vitrophyre	—	"	"	"	"	"	54	—	—	—	—	0.3	—	—	—
74-174A	tuff	—	"	"	"	"	"	130	—	—	—	—	—	—	—	—
74-174B	"	—	"	"	"	"	"	80	—	—	—	—	—	—	—	—
75-110A	soil	Alluvium	Q	Callao	8	"	16W	47	0.3	1.4	—	5.6	2.4	4.0	1.2	H 0.2 Ar 0.4
75-110B	"	"	"	"	"	"	"	42	0.4	1.7	—	9	2.0	3.4	2.3	H 0.6 Ar 0.5
75-173A	igneous complex	—	T	Desert Mtn.	13	"	7W	40	2.5	—	0.7	4.4	8.0	—	—	—
75-173B	"	—	"	"	"	"	"	35	1.8	1.2	0.4	6.4	7.0	—	—	Amphibole 1.2
75-173C	"	—	"	"	"	"	"	34	—	0.6	—	G9	G9	—	—	—
75-173D	"	—	"	"	"	"	"	36	0.9	3.1	0.3	4.7	7.0	—	—	Amphibole 1.7
75-173E	"	—	"	"	"	"	"	18	0.4	—	—	G9	G9	—	—	—
75-81A	metamorphic	—	pC	Deep Creek Mtns.	28	"	18W	17	—	—	—	—	—	G9	1.0	H 0.4 Corrensita 0.8
75-81B	"	—	"	"	"	"	"	44	—	G9	—	—	—	G9	—	H 0.2 Hornblende-G9

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JULIA COUNTY (CONT'D)																
75-81C	metamorphic	--	p ⁶	Deep Creek Mtns.	23	12S	13W	190	--	G10	--	--	--	G9	--	--
75-81D	"	--	"	"	"	"	"	290	--	G10	--	--	--	--	--	--
75-81E	"	--	"	"	"	"	"	360	--	G9	--	--	--	G9	--	--
75-81F	"	--	"	"	"	"	"	490	--	G9	--	--	--	G9	--	--
75-81G	"	--	"	"	"	"	"	46	--	G9	--	--	--	G9	--	--
76-32A	tuff	--	T	--	14	"	3W	49	--	--	--	--	--	--	--	--
76-32E	"	--	"	--	"	"	"	38	--	--	--	--	--	--	--	--
76-32C	"	--	"	--	"	"	"	25	--	--	--	--	--	--	--	--
75-177D	rhyolite	--	"	Desert Mtn.	7	"	6W	37	--	--	--	--	--	--	--	--
75-177F	igneous	--	T(?)	"	18	"	"	15	--	--	--	--	--	--	--	--
75-177E	"	--	"	"	13	"	7W	35	--	--	--	--	--	--	--	--
75-178A	vitrophyre	--	"	Kag Mtn.	36	"	9W	38	--	--	--	--	--	--	--	--
75-178B	tuff	--	"	"	"	"	"	27	--	--	--	--	--	--	--	--
75-76	"	--	"	Thomas Range	15	"	12W	330	--	--	--	G9	2.5	0.6	0.5	C 1.3
75-77	clay	--	"	"	22	"	"	260	--	--	--	--	--	--	--	--
75-68A	altered tuff	--	"	Spor Mtn.	31	"	"	270	--	--	--	--	--	--	--	--
75-68B	"	--	"	"	"	"	"	400	--	--	--	--	--	--	--	--
75-68C	"	--	"	"	"	"	"	85	--	--	--	--	--	--	--	--
75-65A	"	--	"	"	"	"	"	140	--	--	--	--	--	--	--	--
75-65B	"	--	"	"	"	"	"	170	--	--	--	--	--	--	--	--
75-65C	"	--	"	"	"	"	"	200	--	--	--	--	--	--	--	--
75-65D	"	--	"	"	"	"	"	73	--	--	--	--	--	--	--	--
75-65E	"	--	"	"	"	"	"	410	--	--	--	--	--	--	--	--
75-65F	"	--	"	"	"	"	"	100	--	--	--	--	--	--	--	--
75-65G	"	--	"	"	"	"	"	130	--	--	--	--	--	--	--	--
75-64A	"	--	"	"	"	"	"	380	--	--	--	--	--	--	--	--
75-64B	"	--	"	"	"	"	"	1100	--	--	--	--	--	--	--	--
75-64C	"	--	"	"	"	"	"	540	--	--	--	--	--	--	--	--
75-64D	"	--	"	"	"	"	"	420	--	--	--	--	--	--	--	--
76-27	clay	Golden's Ranch Fm.	"	Nephi	9	13S	1W	37	--	--	--	--	--	--	--	--
75-172	"	Salt Lake Gp.	"	Jericho	8	"	3W	75	0.1	0.3	--	6.7	--	3.3	1.0	--
75-180A	tuff	--	"	Antelope Ridge	12	"	11W	35	--	--	--	--	--	--	--	--
75-180B	rhyolite	--	"	"	"	"	"	11	--	--	--	--	--	--	--	--
74-104	limestone	Fish Haven	O	Spor Mtn.	3	"	12W	15	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAB COUNTY (CONT'D)															
74-100A	tuff	—	T Spor Mtn.	5	13S	12W	320	1.0	0.6	0.9	4.4	6.8	—	—	C 1.5
74-100B	clay	—	" "	"	"	"	500	—	0.5	4.3	0.5	0.8	—	—	Cr 0.9
74-100C	"	—	" "	"	"	"	120	0.6	—	0.4	—	—	—	—	Cr 0.3 F 7.3
74-100D	fluorite	—	" "	"	"	"	340	—	—	—	—	—	—	—	Cr 2.8 F 2.0
74-100E	"	—	" "	"	"	"	480	—	0.6	3.7	0.6	2.8	1.0	0.4	Cr 1.1
74-101A	tuff	—	" "	"	"	"	250	0.3	2.4	0.7	10	G10	—	—	F 1.1
74-101B	"	—	" "	"	"	"	170	0.2	1.4	0.6	2.4	8.2	—	—	—
74-101C	"	—	" "	"	"	"	65	—	—	1.3	2.2	G10	—	—	Cr 0.8
74-101D	"	—	" "	"	"	"	180	—	2.2	1.1	1.8	—	—	—	Cr 2.5
74-101E	"	—	" "	"	"	"	100	—	2.4	2.3	2.2	4.5	—	—	Cr 1.2
74-101F	"	—	" "	"	"	"	160	—	3.5	3.3	G10	7.7	0.5	—	—
74-101G	"	—	" "	"	"	"	350	—	0.6	0.8	0.3	—	—	—	Cr 1.4 F 4.2
74-101H	"	—	" "	"	"	"	140	—	1.1	1.0	1.8	5.7	—	—	Cr 0.9
74-101I	"	—	" "	"	"	"	230	—	2.5	3.5	1.4	4.2	—	—	Cr 0.6
74-101J	"	—	" "	"	"	"	350	—	0.3	0.8	0.4	1.6	—	—	Cr 0.3 F 8.0
74-101K	"	—	" "	"	"	"	170	—	1.5	0.9	1.6	2.4	—	—	Cr 1.3
74-101L	"	—	" "	"	"	"	380	—	2.1	0.8	2.6	3.0	—	—	Cr 1.4
74-101M	"	—	" "	"	"	"	450	—	2.6	1.4	2.6	6.3	—	—	Cr 0.8
74-101N	"	—	" "	"	"	"	490	—	2.6	2.7	1.5	4.6	—	—	Cr 1.1
74-101O	"	—	" "	"	"	"	410	—	—	—	—	—	—	—	Cr 4.1
74-102A	ore	—	" "	"	"	"	500	—	1.8	3.1	3.2	4.7	1.1	—	Cr 0.7
74-102B	"	—	" "	"	"	"	750	—	1.0	2.7	3.0	3.8	—	—	Cr 0.8 F 0.2
74-102C	"	—	" "	"	"	"	500	—	0.2	0.4	—	—	10	—	F 3.8
75-58A	tuff	—	" "	6	"	"	600	—	—	—	—	—	—	—	—
75-58B	"	—	" "	"	"	"	480	—	—	—	—	—	—	—	—
75-58C	"	—	" "	"	"	"	620	—	—	—	—	—	—	—	—
75-58D	"	—	" "	"	"	"	230	—	—	—	—	—	—	—	—
75-61A	"	—	" "	6	13S	12W	210	—	—	—	—	—	—	—	—
75-61B	"	—	" "	"	"	"	530	—	—	—	—	—	—	—	—
75-61C	"	—	" "	"	"	"	330	—	—	—	—	—	—	—	—
75-53K	"	—	" "	6	13S	12W	140	—	—	—	—	—	—	—	—
75-53L	"	—	" "	"	"	"	180	—	—	—	—	—	—	—	—
75-53M	"	—	" "	"	"	"	600	—	—	—	—	—	—	—	—

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	LI (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAB COUNTY (CONT'D)																
75-53N	quartz	--	--	Spor Men.	6	13S	12W	5	--	--	--	--	--	--	--	--
75-53A	ruff	--	T	"	"	"	"	180	--	--	--	--	--	--	--	--
75-53B	"	--	"	"	"	"	"	300	--	--	--	--	--	--	--	--
75-53C	"	--	"	"	"	"	"	143	--	--	--	--	--	--	--	--
75-53D	"	--	"	"	"	"	"	260	--	--	--	--	--	--	--	--
75-53E	"	--	"	"	"	"	"	220	--	--	--	--	--	--	--	--
75-53F	"	--	"	"	"	"	"	320	--	--	--	--	--	--	--	--
75-53G	"	--	"	"	"	"	"	250	--	--	--	--	--	--	--	--
75-53H	"	--	"	Spor Men.	6	13S	12W	310	--	--	--	--	--	--	--	--
75-53I	"	--	"	"	"	"	"	130	--	--	--	--	--	--	--	--
75-53J	"	--	"	"	"	"	"	300	--	--	--	--	--	--	--	--
75-61D	"	--	"	"	"	"	"	740	--	--	--	--	--	--	--	--
75-61E	"	--	"	"	"	"	"	770	--	--	--	--	--	--	--	--
75-53O	"	--	"	"	"	"	"	200	--	--	--	--	--	--	--	--
75-53P	"	--	"	"	"	"	"	100	--	--	--	--	--	--	--	--
75-53Q	"	--	"	"	"	"	"	140	--	--	--	--	--	--	--	--
75-53R	"	--	"	"	"	"	"	270	--	--	--	--	--	--	--	--
75-53S	"	--	"	"	"	"	"	360	--	--	--	--	--	--	--	--
75-53T	"	--	"	"	"	"	"	200	--	--	--	--	--	--	--	--
75-53U	"	--	"	"	"	"	"	160	--	--	--	--	--	--	--	--
75-59A	"	--	"	"	"	"	"	250	--	--	--	--	--	--	--	--
75-59B	"	--	"	"	"	"	"	510	--	--	--	--	--	--	--	--
75-59C	"	--	"	"	"	"	"	930	--	--	--	--	--	--	--	--
75-59D	"	--	"	"	"	"	"	600	--	--	--	--	--	--	--	--
75-62D	"	--	"	"	"	"	"	130	--	--	--	--	--	--	--	--
75-62E	"	--	"	"	"	"	"	170	--	--	--	--	--	--	--	--
75-62F	"	--	"	"	"	"	"	160	--	--	--	--	--	--	--	--
75-62G	"	--	"	"	"	"	"	170	--	--	--	--	--	--	--	--
75-62H	"	--	"	"	"	"	"	150	--	--	--	--	--	--	--	--
75-62I	"	--	"	"	"	"	"	240	--	--	--	--	--	--	--	--
75-62J	"	--	"	"	"	"	"	200	--	--	--	--	--	--	--	--
75-62A	"	--	"	"	"	"	"	210	--	--	--	--	--	--	--	--
75-62B	"	--	"	"	"	"	"	500	--	--	--	--	--	--	--	--
75-62C	"	--	"	"	"	"	"	200	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAN COUNTY (CONT'D)															
75-60E	tuff	--	T Spar Mtn.	7	13S	12W	140	--	--	--	--	--	--	--	--
75-60F	"	--	" "	"	"	"	180	--	--	--	--	--	--	--	--
75-60G	"	--	" "	"	"	"	170	--	--	--	--	--	--	--	--
75-60H	"	--	" "	"	"	"	110	--	--	--	--	--	--	--	--
75-60I	"	--	" "	"	"	"	270	--	--	--	--	--	--	--	--
75-63A	"	--	" "	"	"	"	190	--	--	--	--	--	--	--	--
75-63B	"	--	" "	"	"	"	220	--	--	--	--	--	--	--	--
75-60A	"	--	" "	"	"	"	140	--	--	--	--	--	--	--	--
75-60B	"	--	" "	"	"	"	180	--	--	--	--	--	--	--	--
75-60C	"	--	" "	"	"	"	360	--	--	--	--	--	--	--	--
75-60D	"	--	" "	"	"	"	150	--	--	--	--	--	--	--	--
75-56G	"	--	" "	"	"	"	290	--	--	--	--	--	--	--	--
75-56H	"	--	" "	"	"	"	240	--	--	--	--	--	--	--	--
75-56I	"	--	" "	"	"	"	680	--	--	--	--	--	--	--	--
75-67A	"	--	" "	"	"	"	240	--	--	--	--	--	--	--	--
75-67B	"	--	" "	"	"	"	350	--	--	--	--	--	--	--	--
75-67C	"	--	" "	"	"	"	260	--	--	--	--	--	--	--	--
75-55A	"	--	" "	8	"	"	150	--	--	--	--	--	--	--	--
75-55B	"	--	" "	"	"	"	1300	--	--	--	--	--	--	--	--
75-55C	"	--	" "	"	"	"	700	--	--	--	--	--	--	--	--
75-55D	"	--	" "	"	"	"	490	--	--	--	--	--	--	--	--
75-55E	"	--	" "	"	"	"	190	--	--	--	--	--	--	--	--
75-56C	"	--	" "	"	"	"	550	--	--	--	--	--	--	--	--
75-56D	"	--	" "	"	"	"	310	--	--	--	--	--	--	--	--
75-56E	"	--	" "	"	"	"	510	--	--	--	--	--	--	--	--
75-56F	"	--	" "	"	"	"	590	--	--	--	--	--	--	--	--
74-171	"	--	" Topas Mtn.	14	"	"	62	--	--	--	--	--	--	--	--
74-103	"	--	" Spar Mtn.	16	"	"	270	--	2.0	6.7	1.8	5.6	--	--	Gr 1.3
74-179A	"	--	" "	17	"	"	450	--	--	--	--	--	--	--	--
74-179B	"	--	" "	"	"	"	640	--	--	--	--	--	--	--	--
74-179C	"	--	" "	"	"	"	1250	--	--	--	--	--	--	--	--
75-57A	"	--	" "	"	"	"	300	--	--	--	--	--	--	--	--
75-57B	"	--	" "	"	"	"	350	--	--	--	--	--	--	--	--
75-57C	"	--	" "	"	"	"	360	--	--	--	--	--	--	--	--
75-56A	"	--	" "	"	"	"	350	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAB COUNTY (CONT'D)															
75-56B	tuff	--	T Spor Mtn.	17	13S	12W	150	--	--	--	--	--	--	--	--
75-70A	"	--	" "	1	"	13W	620	--	--	--	--	--	--	--	--
75-70B	"	--	" "	"	"	"	430	--	--	--	--	--	--	--	--
75-66A	"	--	" "	"	"	"	320	--	--	--	--	--	--	--	--
75-66B	"	--	" "	"	"	"	150	--	--	--	--	--	--	--	--
75-54Q	"	--	" "	"	"	"	220	--	--	--	--	--	--	--	--
75-54R	"	--	" "	"	"	"	130	--	--	--	--	--	--	--	--
75-54S	"	--	" "	"	"	"	250	--	--	--	--	--	--	--	--
75-54T	"	--	" "	"	"	"	20	--	--	--	--	--	--	--	--
75-71A	"	--	" "	"	"	"	360	--	--	--	--	--	--	--	--
75-71B	"	--	" "	"	"	"	300	--	--	--	--	--	--	--	--
75-71C	"	--	" "	"	"	"	120	--	--	--	--	--	--	--	--
75-69A	"	--	" "	"	"	"	170	--	--	--	--	--	--	--	--
75-69B	"	--	" "	"	"	"	300	--	--	--	--	--	--	--	--
75-69C	"	--	" "	"	"	"	380	--	--	--	--	--	--	--	--
75-69D	"	--	" "	"	"	"	540	--	--	--	--	--	--	--	--
75-69E	"	--	" "	"	"	"	560	--	--	--	--	--	--	--	--
75-72A	"	--	" "	"	"	"	220	--	--	--	--	--	--	--	--
75-72B	"	--	" "	"	"	"	290	--	--	--	--	--	--	--	--
75-72C	"	--	" "	"	"	"	150	--	--	--	--	--	--	--	--
75-72D	"	--	" "	"	"	"	240	--	--	--	--	--	--	--	--
75-72E	"	--	" "	"	"	"	400	--	--	--	--	--	--	--	--
75-54I	"	--	" "	"	"	"	430	--	--	--	--	--	--	--	--
75-54J	"	--	" "	"	"	"	190	--	--	--	--	--	--	--	--
75-54K	"	--	" "	"	"	"	160	--	--	--	--	--	--	--	--
75-54L	"	--	" "	"	"	"	310	--	--	--	--	--	--	--	--
75-54M	"	--	" "	"	"	"	480	--	--	--	--	--	--	--	--
75-54N	"	--	" "	"	"	"	480	--	--	--	--	--	--	--	--
75-54O	"	--	" "	"	"	"	490	--	--	--	--	--	--	--	--
75-54P	"	--	" "	"	"	"	90	--	--	--	--	--	--	--	--
75-54A	"	--	" "	"	"	"	240	--	--	--	--	--	--	--	--
75-54B	"	--	" "	"	"	"	320	--	--	--	--	--	--	--	--
75-54C	"	--	" "	"	"	"	190	--	--	--	--	--	--	--	--
75-54D	"	--	" "	"	"	"	360	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAN COUNTY (CONT'D)																
75-80A	powder	--	T	Honey Comb Hills	12	13S	16W	940	--	--	--	--	--	--	--	--
75-80B	rhyolite	--	"	"	"	"	"	120	--	--	--	--	--	--	--	--
75-80C	alteration	--	"	"	"	"	"	480	--	--	--	--	--	--	--	--
75-80D	rhyolite	--	"	"	"	"	"	340	--	--	--	--	--	--	--	--
75-80E	"	--	"	"	"	"	"	490	--	--	--	--	--	--	--	--
75-80F	clay	--	"	"	"	"	"	220	--	0.3	3.9	G9	2.6	1.7	--	--
75-80G	rhyolite	--	"	"	"	"	"	130	--	--	--	--	--	--	--	--
75-80H	tuff	--	"	"	1	"	"	230	--	--	--	--	--	--	--	--
75-80I	"	--	"	"	"	"	"	170	--	--	--	--	--	--	--	--
75-80J	clay	--	"	"	"	"	"	160	--	5.1	--	G9	7.6	--	--	--
75-80K	tuff	--	"	"	"	"	"	140	--	--	--	--	--	--	--	--
75-80L	"	--	"	"	"	"	"	220	--	--	--	--	--	--	--	--
75-80M	rhyolite	--	"	"	"	"	"	230	--	--	--	--	--	--	--	--
75-80N	silt	--	"	"	6	"	15W	110	--	--	--	--	--	--	--	--
75-80O	"	--	"	"	"	"	"	130	--	--	--	--	--	--	--	--
75-80P	"	--	"	"	"	"	"	120	--	--	--	--	--	--	--	--
75-111	rhyolite	--	"	"	12	"	16W	74	--	--	--	--	2.0	--	--	--
76-28A	alteration	--	T(?)	Canyon Mtns.	3	14S	3W	15	--	--	--	--	--	--	--	--
76-28B	"	--	"	"	"	"	"	22	--	--	--	--	--	--	--	--
76-28C	"	--	"	"	"	"	"	6	--	--	--	--	--	--	--	--
74-106B	salt	--	Q(?)	Abraham Hot Springs	10	"	8W	45	--	--	--	0.6	--	--	--	Gy -G10
74-106C	"	--	"	"	"	"	"	15	--	--	--	0.3	--	G10	--	Gy 0.4
74-106D	"	--	"	"	"	"	"	45	--	0.2	--	0.8	--	8.3	--	--
74-106E	"	--	"	"	"	"	"	240	--	--	--	--	--	--	--	H-G10
74-106F	"	--	"	"	"	"	"	50	--	--	--	--	--	3.4	--	Gy 3.3
75-79B	clay	--	T	Drum Mtns.	22	"	11W	170	2.2	0.4	--	0.3	0.9	--	3.9	--
75-79C	"	--	"	"	"	"	"	170	--	--	2.7	5.2	6.0	--	--	--
75-79D	"	--	"	"	"	"	"	95	1.2	--	--	--	--	--	--	H 0.4
75-79E	"	--	"	"	"	"	"	27	3.2	0.5	0.4	--	--	--	--	H 1.1
75-78A	alteration	--	"	"	26	"	"	6	--	--	--	G9	--	G9	--	--
75-78B	"	--	"	"	"	"	"	13	--	--	--	0.3	--	G9	--	Malachite 0.6

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
JUAB COUNTY (CONT'D)																
75-78C	alteration	--	T	Drum Mtns.	26	14S	11W	10	--	--	--	3.0	--	G9	--	--
75-78E	"	--	"	"	"	"	"	35	1.5	0.7	--	0.3	--	--	--	H 0.9 Gy 2.0
76-31A	clay	--	"	"	28	"	"	30	--	--	--	--	--	--	--	--
76-31B	"	--	"	"	"	"	"	15	--	--	--	--	--	--	--	--
76-31C	"	--	"	"	"	"	"	16	--	--	--	--	--	--	--	--
76-31D	"	--	"	"	"	"	"	23	--	--	--	--	--	--	--	--
76-31E	"	--	"	"	"	"	"	8	--	--	--	--	--	--	--	--
76-31F	"	--	"	"	"	"	"	19	--	--	--	--	--	--	--	--
76-31G	"	--	"	"	"	"	"	35	--	--	--	--	--	--	--	--
76-31H	"	--	"	"	"	"	"	1250	--	--	--	--	--	--	--	--
76-2C	cuttings	--	T	Mills	10	16S	1W	22	--	--	--	--	--	--	--	--
MILLARD COUNTY																
76-30K	rhyolite	volcanic	T	Little Drum Mtn.	7	15S	11W	550	--	--	--	--	--	--	--	--
76-30L	"	"	"	"	"	"	"	550	--	--	--	--	--	--	--	--
76-30M	glass	"	"	"	"	"	"	340	--	--	--	--	--	--	--	--
76-30N	igneous	"	"	"	"	"	"	36	--	--	--	--	--	--	--	--
76-30I	"	"	"	"	29	"	"	24	--	--	--	--	--	--	--	--
74-182A	clay	--	Q	Snake Valley	30	"	18W	49	--	0.4	--	1.5	0.6	4.0	0.8	H 1.3
74-182B	mud	--	"	"	"	"	"	39	--	0.3	--	0.4	--	3.4	0.7	H 0.7 Ar 0.6
74-182C	"	--	"	"	"	"	"	54	--	0.5	--	1.4	--	3.8	--	Ar 0.6 Amphibole 1.7
76-29A	obsidian	--	T	Smelter Knoll	10	16S	9W	130	--	--	--	--	--	--	--	--
76-29B	rhyolitic tuff	--	"	"	"	"	"	150	--	--	--	--	--	--	--	--
76-29C	igneous	--	"	"	"	"	"	25	--	--	--	--	--	--	--	--
76-30H	agglomerate	volcanic	"	"	1	"	10W	16	--	--	--	--	--	--	--	--
76-30G	"	"	"	"	27	"	"	16	--	--	--	--	--	--	--	--
76-30B	volcanic agglomerate	"	"	"	4	17S	"	21	--	--	--	--	--	--	--	--
76-30C	tuff	"	"	"	"	"	"	39	--	--	--	--	--	--	--	--
76-30D	silicified tuff	"	"	"	"	"	"	41	--	--	--	--	--	--	--	--
76-30E	dolomite	"	"	"	"	"	"	15	--	--	--	--	--	--	--	--
76-30F	quartzite	"	"	"	"	"	"	5	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-16A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
MILLARD COUNTY (CONT'D)																
73-156A	clay	—	T	Church Hills	34	18S	4W	10	—	—	—	6.4	G9	2.3	—	—
73-156B	ore	—	pE	"	"	"	"	20	0.1	0.7	—	G9	—	8.7	—	—
73-156C	travertine	—	Pz	"	"	"	"	10	—	—	—	1.7	—	8.9	7.9	—
73-156D	alunite	—	"	"	"	"	"	120	1.5	—	—	1.0	—	—	—	Alunite 5.4
73-171F	clay	Playa	Q	Dasseret	20	"	7W	40	0.2	0.3	—	7.8	1.3	2.8	3.1	H 0.8
74-248A	"	Alluvium	"	Sevier Playa	10	20S	12W	72	—	—	—	—	—	—	—	—
74-248B	"	"	"	"	"	"	"	110	—	—	—	—	—	—	—	—
74-248C	"	"	"	"	"	"	"	100	—	—	—	—	—	—	—	—
75-99A	mud	Playa	—	"	24	"	"	68	—	—	—	—	—	—	—	—
75-99B	"	"	—	"	"	"	"	89	—	—	—	—	—	—	—	—
75-99C	"	"	—	"	"	"	"	100	—	—	—	—	—	—	—	—
75-99D	"	"	—	"	"	"	"	81	—	—	—	—	—	—	—	—
74-249A	clay	Alluvium	Q	"	33	"	"	64	—	—	—	—	—	—	—	—
74-249B	"	"	"	"	"	"	"	88	—	—	—	—	—	—	—	—
74-249C	"	"	"	"	"	"	"	78	—	—	—	—	—	—	—	—
74-249D	"	"	"	"	"	"	"	66	—	—	—	—	—	—	—	—
74-247A	"	"	"	"	35	21S	11W	44	—	—	—	—	—	—	—	—
74-247B	"	"	"	"	"	"	"	70	—	—	—	—	—	—	—	—
75-98B	"	Playa	"	"	3	"	12W	29	—	—	—	—	—	—	—	—
75-98C	"	"	"	"	"	"	"	87	—	—	—	—	—	—	—	—
75-98D	"	"	"	"	"	"	"	110	—	—	—	—	—	—	—	—
75-98E	"	"	"	"	"	"	"	44	—	—	—	—	—	—	—	—
75-82A	"	"	"	Tule Valley	24	"	14W	46	0.5	0.8	—	3.5	—	5.1	0.7	—
75-82B	"	"	"	"	"	"	"	46	0.5	0.7	—	3.2	—	4.8	0.5	—
75-82C	"	"	"	"	"	"	"	40	0.4	0.7	—	4.0	—	4.8	0.7	—
76-12A	pumice	—	—	White Mtn.	11	22S	6W	69	—	—	—	—	—	—	—	—
76-12B	igneous	—	—	"	"	"	"	63	—	—	—	—	—	—	—	—
76-12C	glass	—	—	"	"	"	"	74	—	—	—	—	—	—	—	—
76-12D	gypsum and clay	—	—	"	"	"	"	52	—	—	—	—	—	—	—	—
74-196B	tufa	Hot spring	Q	Kanosh	35	"	"	38	—	—	—	—	—	—	—	—
74-246A	clay	Alluvium	"	Sevier Playa	10	"	11W	63	—	—	—	—	—	—	—	—
74-246B	"	"	"	"	"	"	"	95	—	—	—	—	—	—	—	—
74-251A	"	"	"	"	3	"	12W	42	—	—	—	—	—	—	—	—

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
MILLARD COUNTY (CONT'D)															
74-251B	clay	Alluvium	Q Sevier Playa	3	22S	11W	35	--	--	--	--	--	--	--	--
75-100A	"	Playa	-- "	13	"	"	80	--	--	--	--	--	--	--	--
75-100B	gypsum	"	-- "	"	"	"	9	--	--	--	--	--	--	--	--
74-250A	clay	Alluvium	Q "	15	"	"	74	--	--	--	--	--	--	--	--
74-250B	"	"	" "	"	"	"	84	--	--	--	--	--	--	--	--
74-250C	"	"	" "	"	"	"	100	--	--	--	--	--	--	--	--
74-194	clayey tuff	Volcanic	T Black Rock	35	23S	10W	150	--	--	--	--	--	--	--	--
74-243A	clay	Alluvium	Q Sevier Playa	31	"	11W	83	--	--	--	--	--	--	--	--
74-243B	"	"	" "	"	"	"	87	--	--	--	--	--	--	--	--
74-243C	"	"	" "	"	"	"	100	--	--	--	--	--	--	--	--
74-245B	"	"	" "	7	"	"	68	--	--	--	--	--	--	--	--
75-103A	"	Playa	" "	2	"	12W	100	--	--	--	--	--	--	--	--
75-103B	"	"	" "	"	"	"	100	--	--	--	--	--	--	--	--
75-103C	"	"	" "	"	"	"	120	--	--	--	--	--	--	--	--
74-252A	"	Alluvium	" "	5	"	"	99	--	--	--	--	--	--	--	--
74-252B	"	"	" "	"	"	"	95	--	--	--	--	--	--	--	--
74-252C	"	"	" "	"	"	"	82	--	--	--	--	--	--	--	--
74-244A	"	"	" "	12	"	"	80	--	--	--	--	--	--	--	--
74-244B	"	"	" "	"	"	"	100	--	--	--	--	--	--	--	--
74-244C	"	"	" "	"	"	"	110	--	--	--	--	--	--	--	--
75-83A	rhyolite	Volcanic	T Sand Wash	18	"	14W	52	--	0.7	--	6.1	G9	0.2	--	--
75-83B	tuff	"	" "	"	"	"	63	--	0.4	--	5.5	G9	0.8	--	--
75-83C	"	"	" "	"	"	"	18	--	--	G9	--	G9	0.6	--	Amphibole 5.8
75-84	"	"	" Crystal Peak	23	"	16W	55	--	--	4.0	G9	G9	--	--	--
75-171D	clay	Playa	Q Deseret	2	24S	10W	140	0.2	0.4	--	2.5	--	4.3	1.2	--
75-171E	tuff	"	" "	"	"	"	39	--	--	--	--	--	--	--	--
75-171A	clay	"	" "	10	"	"	150	0.2	0.4	--	2.8	0.6	2.6	2.4	H 0.9
75-171B	"	"	" "	"	"	"	120	0.3	0.3	--	3.1	--	2.6	2.1	H 0.3
75-171C	"	"	" "	"	"	"	150	--	0.3	--	3.0	--	2.0	2.9	H 0.3 Gy 1.1
75-101A	"	"	-- Sevier Playa	8	"	12W	95	--	--	--	--	--	--	--	--
75-101B	"	"	-- "	"	"	"	110	--	--	--	--	--	--	--	--
75-101C	"	"	-- "	"	"	"	95	--	--	--	--	--	--	--	--
75-101D	"	"	-- "	"	"	"	120	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
74-242A	clay	Alluvium	Q Sevier Playa	12	24S	12W	96	--	--	--	--	--	--	--	--
74-242B	"	"	" "	"	"	"	63	--	--	--	--	--	--	--	--
74-242C	"	"	" "	"	"	"	90	--	--	--	--	--	--	--	--
74-185A	"	--	" Wah Wah Range	34	"	13W	44	--	--	--	--	--	--	--	--
74-185B	"	--	" "	"	"	"	30	--	--	--	--	--	--	--	--
74-185C	"	--	" "	"	"	"	34	--	--	--	--	--	--	--	--
74-197	tufa sulfur	Volcanic	T Cove Fort	20	25S	6W	6	--	--	--	--	--	--	--	--
75-85	clay	Playa	Q Desert Range	24	"	17W	46	0.3	0.6	--	3.4	1.1	3.8	1.1	--
75-169	tuff	--	T Needles Pass	27	"	18W	170	0.4	0.9	6.5	--	7.7	--	G10	--
74-254	clay	Alluvium	Q Beaver Bottoms	4	26S	10W	130	--	--	--	--	--	--	--	--

PIUTE COUNTY

74-204	clay	--	T Big Rock Candy Mtn.	32	26S	4W	6	--	--	--	--	--	--	--	--
76-22A	welded tuff	--	" Box Creek Clay Dep.	3	27S	2W	17	--	--	--	--	--	--	--	--
76-22B	kaolin	--	" "	"	"	"	16	--	--	--	--	--	--	--	--
76-22C	clay	--	" "	"	"	"	12	--	--	--	--	--	--	--	--
76-22D	"	--	" "	"	"	"	18	--	--	--	--	--	--	--	--
76-22E	bentonitic clay	--	" "	"	"	"	30	--	--	--	--	--	--	--	--
76-22F	kaolin	--	" "	"	"	"	15	--	--	--	--	--	--	--	--
76-22G	hematite clay	--	" "	"	"	"	18	--	--	--	--	--	--	--	--
74-202A	carbonate	--	" Marys vale	29	27S	24W	22	--	--	--	--	--	--	--	--
74-202B	fault gouge	--	" "	"	"	"	20	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
PIUTE COUNTY (CONT'D)															
76-24A	ore minerals	---	T Marys vale	4	27S	3W	26	--	--	--	--	--	--	--	--
76-24B	manganese	---	" "	"	"	"	23	--	--	--	--	--	--	--	--
76-24C	igneous	---	" "	"	"	"	43	--	--	--	--	--	--	--	--
76-24D	fracture fill	---	" "	"	"	"	28	--	--	--	--	--	--	--	--
76-24E	igneous	---	" "	"	"	"	30	--	--	--	--	--	--	--	--
76-24F	"	---	" "	"	"	"	8	--	--	--	--	--	--	--	--
76-24G	"	---	" "	"	"	"	23	--	--	--	--	--	--	--	--
76-24H	clay	---	" "	"	"	"	16	--	--	--	--	--	--	--	--
76-24I	volcanics	---	" "	"	"	"	24	--	--	--	--	--	--	--	--
76-24J	manganese	---	" "	"	"	"	24	--	--	--	--	--	--	--	--
76-24K	volcanics	---	" "	"	"	"	36	--	--	--	--	--	--	--	--
76-24L	"	---	" "	"	"	"	19	--	--	--	--	--	--	--	--
76-24M	"	---	" "	"	"	"	7	--	--	--	--	--	--	--	--
76-24N	ash	---	" "	"	"	"	22	--	--	--	--	--	--	--	--
76-24O	volcanics	---	" "	"	"	"	22	--	--	--	--	--	--	--	--
74-203A	fault gouge	Bullion Canyon	" "	10	"	"	5	--	--	--	--	--	--	--	--
74-203B	---	"	" "	"	"	"	9	--	--	--	--	--	--	--	--
74-203C	clay	"	" "	"	"	"	6	--	--	--	--	--	--	--	--
74-203D	volcanics	"	" "	"	"	"	8	--	--	--	--	--	--	--	--
74-203E	ore	"	" "	"	"	"	31	--	--	--	--	--	--	--	--
74-203F	volcanics	"	" "	"	"	"	16	--	--	--	--	--	--	--	--
74-203G	ore	"	" "	"	"	"	3	--	--	--	--	--	--	--	--
74-203H	volcanics	"	" "	"	"	"	26	--	--	--	--	--	--	--	--
74-203I	clay	"	" "	"	"	"	9	--	--	--	--	--	--	--	--
74-203J	volcanics	"	" "	"	"	"	3	--	--	--	--	--	--	--	--
74-203K	ore	"	" "	"	"	"	5	--	--	--	--	--	--	--	--
74-203L	gypsum & clay	"	" "	"	"	"	30	--	--	--	--	--	--	--	--
74-203M	clay	"	" "	"	"	"	7	--	--	--	--	--	--	--	--
76-23A	welded tuff	---	" Otter Creek Rec. Area	29	30S	2W	31	--	--	--	--	--	--	--	--
76-23B	tuff agglomerate	---	" "	"	"	"	14	--	--	--	--	--	--	--	--
76-23D	clay	---	" "	30	"	"	88	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
PIUTE COUNTY (CONT'D)																
76-23G	tuff	Claron	T	Otter Creek Rec. Area	15	30S	24W	26	--	--	--	--	--	--	--	--
76-23E	volcanics	--	"	"	23	"	"	100	--	--	--	--	--	--	--	--
76-23F	tuff	--	"	"	"	"	"	34	--	--	--	--	--	--	--	--
76-23C	igneous	--	"	"	36	"	"	49	--	--	--	--	--	--	--	--
76-23H	devic. tuff	Sevier Fm.	"	"	17	"	3W	88	--	--	--	--	--	--	--	--
RICH COUNTY																
74-49A	clay	Salt Lake	T	Bear Lake	26	14N	4E	6	--	--	--	--	--	--	--	--
74-49B	"	"	"	"	"	"	"	14	--	--	--	--	--	--	--	--
74-49C	"	"	"	"	"	"	"	6	--	--	--	--	--	--	--	--
SALT LAKE COUNTY																
74-141A	travertine	--	T	Jordan Narrows	27	3S	1W	20	--	--	--	--	--	--	--	--
74-141B	clayey tuff	--	"	"	"	"	"	36	--	--	--	--	--	--	--	--
74-141C	"	--	"	"	"	"	"	27	--	--	--	--	--	--	--	--
SAN JUAN COUNTY																
74-156	ore	Chinle	E	Big Indian Wash	13	30S	24E	14	--	--	--	--	--	--	--	--
74-155A	shale	Hermosa	P	"	19	"	25E	54	--	--	--	--	--	--	--	--
74-155B	"	"	"	"	"	"	"	44	--	--	--	--	--	--	--	--
74-155C	"	"	"	"	"	"	"	41	--	--	--	--	--	--	--	--
74-154A	clayey shale	Cedar Mesa	"	Comb Wash	35	40S	20E	30	--	--	--	--	--	--	--	--
74-154B	carbonate	"	"	"	"	"	"	20	--	--	--	--	--	--	--	--
74-154C	gypsum clay	"	"	"	"	"	"	32	--	--	--	--	--	--	--	--
74-154D	anhydrite	"	"	"	"	"	"	3	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	LI (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
SAN PETER COUNTY																
75-176A	lake marl	--	T	Sterling	30	18S	2E	3	--	--	--	--	--	--	--	--
75-176B	clay	--	"	"	8	19S	"	12	--	--	--	--	--	--	--	--
75-176C	clay siltstone	--	"	"	"	"	"	75	--	--	--	--	--	--	--	--
74-168A	carbonate	--	"	Sevier River	14	20S	1W	29	--	--	--	--	--	--	--	--
74-168B	tuff	--	"	"	"	"	"	28	--	--	--	--	--	--	--	--
74-169A	halite	Arapien	J	Redwood	23	"	"	6	--	--	--	--	--	--	--	--
74-169B	siltstone	"	"	"	"	"	"	133	--	--	--	--	--	--	--	--
SEVIER COUNTY																
74-166A	clay	Arapien	J	Redmond	34	20S	1E	6	--	--	--	--	--	--	--	--
74-166B	silt salt	"	"	"	"	"	"	6	--	--	--	--	--	--	--	--
74-166C	mud	"	"	"	"	"	"	32	--	--	--	--	--	--	--	--
74-166D	salt	"	"	"	"	"	"	1	--	--	--	--	--	--	--	--
74-166E	mud	"	"	"	"	"	"	31	--	--	--	--	--	--	--	--
74-166G	--	"	"	"	"	"	"	28	--	--	--	--	--	--	--	--
74-166H	clay salt	"	"	"	"	"	"	23	--	--	--	--	--	--	--	--
74-166I	"	"	"	"	"	"	"	23	--	--	--	--	--	--	--	--
74-167B	"	"	"	"	36	"	"	24	--	--	--	--	--	--	--	--
74-167C	gypsum	"	"	"	"	"	"	16	--	--	--	--	--	--	--	--
74-165	shale	"	"	Salina	1	22S	"	18	--	--	--	--	--	--	--	--
74-164A	clayey shale	"	"	Mtn. Ranch Ranger Station	26	"	3E	29	--	--	--	--	--	--	--	--
74-164B	shale	"	"	"	"	"	"	28	--	--	--	--	--	--	--	--
74-170A	clay gypsum & sandstone	--	"	Sigurd	6	23S	1W	33	--	--	--	--	--	--	--	--
74-170B	"	--	"	"	"	"	"	22	--	--	--	--	--	--	--	--
74-199	tuff	--	T	Elsinore	17	24S	3W	16	--	--	--	--	--	--	--	--
74-200B	precipitate	--	"	Red Hill	11	25S	"	18	--	--	--	--	--	--	--	--
74-201B	beaumontic clay	--	"	Joseph Hot Spring	24	"	4W	33	--	--	--	--	--	--	--	--
76-25A	"	--	--	Sevier	29	"	4W	120	--	--	--	--	--	--	--	--
76-26B	"	--	--	"	"	"	"	100	--	--	--	--	--	--	--	--
76-26C	"	--	--	"	"	"	"	68	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/} Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
SEVIER COUNTY (CONT'D)															
76-26D	clay	—	— Sevier	29	25S	4W	110	—	—	—	—	—	—	—	—
76-25A	"	—	— Mill Creek Clay Dep.	30	26S	4W	22	—	—	—	—	—	—	—	—
76-25B	volcanic	—	— "	"	"	"	40	—	—	—	—	—	—	—	—
76-25C	silica	—	— "	"	"	"	14	—	—	—	—	—	—	—	—
76-25D	tuff	—	— "	"	"	"	15	—	—	—	—	—	—	—	—
TOOELE COUNTY															
74-2	clay	Alluvium	Q Salt Lake	17	1N	5W	86	0.5	1.2	0.2	G9.8	—	2.8	1.8	H 5.6
74-3	oolite	"	" "	"	"	"	12	—	0.2	—	—	—	0.2	0.6	H 0.7 Ar 4.8
74-5A	algal-strom.	"	" Plug Point	"	"	"	27	—	—	—	1.5	—	1.9	0.2	H 0.3
74-229I	clay	Lake beds	" G. S. L. D.	6	"	17W	70	0.2	0.2	—	1.7	—	2.0	0.7	H 10 Ba 8.2 Ar 1.8
75-123B	"	"	" "	14	"	"	70	0.1	0.2	—	1.3	1.5	1.0	0.5	H 4.7 Ar 3.3
75-123C	"	"	" "	"	"	"	51	—	0.1	—	1.2	—	0.8	0.5	H 1.9 Ar 4.2
75-123D	"	"	" "	"	"	"	80	0.2	0.4	—	2.0	0.3	1.6	1.0	H 3.6 Ar 2.6
75-123E	"	"	" "	"	"	"	120	0.1	0.2	—	1.4	—	1.0	1.0	H 4.5 Ar 3.1
74-229H	"	"	" "	19	"	"	96	0.2	0.3	—	1.4	—	1.8	2.4	H 10 Ba-G10 Ar 1.1
74-229B	"	"	" "	20	"	"	47	0.1	0.3	0.1	1.1	0.6	0.4	0.2	Ba-G10
74-229J	"	"	" "	29	"	"	35	0.1	0.2	—	0.7	—	0.6	0.4	H 8.8 Ba-G10 Ar 0.8
74-229T	"	"	" "	25	"	18W	57	0.1	0.3	—	1.2	—	1.4	0.7	H 8.6 Ba-G10 Ar 1.0
74-229F	"	"	" "	26	"	"	130	0.1	0.3	—	1.5	—	2.4	.8	H 10 Ba 5.3 Ar 1.6
74-229S	"	"	" "	36	"	"	70	0.2	0.4	—	1.2	—	2.4	0.6	H 10 Ba 6.4 Ar 2.0
75-134A	barite	Playa	G Donner Pass	2	2N	17W	6	—	—	—	—	—	—	—	Barite-G10
75-134B	dolomite	"	" "	"	"	"	61	—	—	—	6.3	—	—	0.7	Barite 4.1
75-135A	"	—	Ps Lamus Peak	3	"	"	4	—	—	—	G9	—	1.6	—	—
75-135B	galeas	—	" "	"	"	"	2	—	—	—	—	—	—	—	—
75-135C	quartz	—	" "	"	"	"	2	—	—	—	—	—	G9	3.0	Ar 0.9
75-135D	mafic dike	—	" "	"	"	"	1	—	—	—	—	—	—	—	—
75-135E	carbonate	—	" "	"	"	"	1	—	—	—	—	—	G9	1.3	Ar 0.5
75-50A	gypsum & clay	Playa	Q Newfoundland Mtn.	24	3N	14W	81	0.2	0.3	—	6.9	1.2	2.1	1.2	H 2.0 Ba 0.3 Gy-G9

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
TOOELE COUNTY (CONT'D)																
75-50B	gypsum & clay	Playa	Q	Newfoundland Mta.	24	3N	14W	78	0.2	0.4	—	4.0	—	1.8	1.0	H 1.5 Ba 0.3 Gy-G9
75-50C	clay	"	"	"	"	"	"	44	0.1	0.3	—	1.2	—	1.0	5.5	H 0.9 Ar 1.3
75-127A	gypsum	"	"	Pilot Valley	3	4N	16W	28	—	—	—	0.7	—	0.8	0.4	H 3.6 Ba-G9
75-127B	clay	"	"	"	"	"	"	50	—	0.3	—	1.2	—	1.0	0.1	H 1.5 Ba-G9
75-127C	"	"	"	"	"	"	"	100	0.1	0.4	—	1.5	0.3	—	0.2	H 2.2 Ba 7.8
75-127D	"	"	"	"	"	"	"	120	0.2	1.1	—	3.8	1.1	1.9	0.6	H 2.9 Ba 2.5 Ar 0.3
75-132A	"	"	"	"	8	"	"	150	0.2	1.1	—	2.4	0.8	2.2	0.4	H-G9
75-132B	"	"	"	"	"	"	"	150	0.1	0.8	—	2.0	—	—	0.4	Ba 5.7
75-132C	"	"	"	"	"	"	"	200	0.1	0.7	—	1.8	—	1.6	1.2	H 5.8 Ar 0.2
75-132D	"	"	"	"	"	"	"	120	0.1	0.6	—	3.4	0.3	3.9	0.4	H 4.0 Ar 0.5
75-124	"	"	"	G.S.L.D.	7	1N	16W	88	0.2	0.4	—	2.1	0.6	1.7	1.0	H 4.2 Ar 2.4
75-129A	clay	"	"	Pilot Valley	13	4N	16W	28	—	—	—	1.5	0.2	1.0	—	H 3.0 Ba-G9
75-129B	"	"	"	"	"	"	"	90	0.1	0.9	2.9	—	0.4	2.5	0.9	H 2.8 Ba 5.3
75-129C	"	"	"	"	"	"	"	110	0.2	1.0	—	2.6	1.5	3.9	1.2	H 2.6, Ar 0.3 Ba 4.0
75-130A	"	"	"	"	26	"	"	190	0.1	0.6	—	2.6	0.8	1.3	1.0	H 5.1 Ba 7.7
75-130B	"	"	"	"	"	"	"	160	0.2	0.9	—	3.0	0.6	2.3	0.8	H 3.3 Ba 2.1 Ar 0.3
75-130C	"	"	"	"	"	"	"	200	0.2	0.7	—	3.1	0.2	1.9	0.8	H 4.8 Ar 1.7
75-130D	"	"	"	"	"	"	"	160	0.3	1.1	—	5.3	1.3	3.8	1.1	H 5.6
75-131A	"	"	"	"	32	"	"	160	0.2	1.3	—	4.0	0.5	2.5	0.4	H 4.3 Ba 2.6
75-131B	"	"	"	"	"	"	"	210	0.2	1.4	—	2.9	0.9	2.4	0.6	H 5.0 Ba 0.9 Ar 0.2
75-131C	"	"	"	"	"	"	"	180	0.3	1.0	—	5.7	0.7	2.6	0.9	H 3.2
75-128A	"	"	"	"	35	5N	"	100	0.2	0.8	—	2.7	3.3	1.8	0.8	H 2.3 Ba 7.1
75-128B	"	"	"	"	"	"	"	120	0.3	1.2	—	4.1	2.6	2.1	0.9	H 3.5 Ba 2.6 Ar 0.4
75-128C	"	"	"	"	"	"	"	60	0.1	0.4	—	1.0	0.3	1.3	0.3	H 1.8 B-G9

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
TOOELE COUNTY (CONT'D)																
74-134A	clay	Lake beds	Q	G.S.L.D.	13	1S	14W	93	0.1	0.2	1.5	0.8	3.2	0.7	0.3	H 2.4
74-134B	"	"	"	"	"	"	"	100	—	0.2	3.0	0.4	3.0	0.7	0.3	H 2.4
74-135A	"	"	"	"	"	"	"	96	0.2	1.5	0.2	3.2	—	3.3	0.5	H 2.6 Mag 0.1
74-135B	"	"	"	"	"	"	"	77	0.4	0.8	—	9.4	0.6	3.1	2.7	H 1.0
74-135C	"	"	"	"	"	"	"	82	0.2	0.4	—	3.6	—	1.4	1.0	H 3.0, Ar 1.8 Mag 0.1
74-135D	"	"	"	"	"	"	"	110	—	0.2	—	0.6	—	0.7	0.3	H 2.2, Ar 2.6 Mag 0.2
74-135E	"	"	"	"	"	"	"	82	0.2	0.3	—	1.6	—	2.0	1.1	H 3.0, Ar 0.9 Gy-G10 Ba 2.0 Mag 0.1
74-136A	gypsum	"	"	"	14	"	"	86	—	0.4	—	0.5	0.3	2.0	1.2	H 4.6
74-136B	clay	"	"	"	"	"	"	77	0.2	0.8	—	10	0.4	2.6	1.1	H 2.1
74-136C	"	"	"	"	"	"	"	84	0.2	0.6	—	7.4	1.3	2.3	1.7	H 1.9
74-136D	"	"	"	"	"	"	"	74	0.5	0.2	0.3	2.7	—	1.4	0.5	H 3.0, Ar 2.0 Mag 0.2
74-136F	carbonate	"	"	"	"	"	"	110	—	0.3	—	1.4	2.0	0.8	3.0	H 2.4 Mag 0.2
74-136G	clay	"	"	"	"	"	"	100	—	0.3	—	8.0	—	0.8	0.5	Ar 3.8 Mag 0.8
74-136H	"	"	"	"	"	"	"	60	—	0.3	—	1.6	—	1.8	1.5	H 3.1, Ar 0.3 Gy-G10 Mag 0.1
74-229Q	"	"	"	G.S.L.D.	1	"	18W	76	0.2	0.4	—	2.0	1.6	2.1	0.6	H-G10 Ba-G10
74-229G	"	"	"	"	2	"	"	65	0.2	0.2	—	1.7	1.9	2.0	.8	H 10 Ba-G10
74-229L	"	"	"	"	"	"	"	65	0.2	0.3	—	1.7	1.9	2.4	0.6	H 7.6 Ba-G10
74-229R	"	"	"	"	12	"	"	65	0.2	0.3	—	1.4	2.0	2.6	0.7	H-G10 Ba 10
74-229D	"	"	"	"	14	"	"	84	0.1	0.3	—	1.8	0.7	0.6	1.3	Ba-G10
74-229P	"	"	"	"	"	"	"	68	0.2	0.3	—	1.7	1.4	2.1	0.6	H-G10 Ba 3.8 Ar 1.7
75-51A	"	Playa	"	"	16	2S	12W	71	0.2	0.4	—	6.1	1.9	2.5	4.3	H 4.1 Gy 1.3 Ar 0.1
75-51B	"	"	"	"	"	"	"	61	0.2	0.4	—	2.2	—	1.4	4.4	H 1.6
75-52A	"	"	"	"	"	"	"	42	0.8	0.4	—	G9	2.1	4.1	2.9	H 3.3 Gy 1.2
75-52B	"	"	"	"	"	"	"	52	0.3	0.4	—	G9	2.5	4.3	3.3	H 2.3
75-199A	"	Salt Lake	T	Wendover	4	"	18W	193	—	—	—	—	—	—	—	—
75-199B	"	"	"	"	"	"	"	230	—	—	—	—	—	—	—	—
75-199C	"	"	"	"	"	"	"	209	—	—	—	—	—	—	—	—
75-199D	"	"	"	"	"	"	"	80	—	—	—	—	—	—	—	—
75-199E	"	"	"	"	"	"	"	89	—	—	—	—	—	—	—	—
75-199F	"	"	"	"	"	"	"	78	—	—	—	—	—	—	—	—
75-199G	"	"	"	"	"	"	"	52	—	—	—	—	—	—	—	—
75-199H	"	"	"	"	"	"	"	453	—	—	—	—	—	—	—	—
75-199I	"	"	"	"	"	"	"	43	—	—	—	—	—	—	—	—
75-199J	"	"	"	"	"	"	"	460	—	—	—	—	—	—	—	—
75-199K	"	"	"	"	"	"	"	177	—	—	—	—	—	—	—	—

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
TOOELE COUNTY (CONT'D)																
75-199L	clay	Salt Lake	T	Wendover	4	2S	1SW	109	--	--	--	--	--	--	--	--
76-63	limestone	--	P	Amatrice Hill	22	4S	6W	34	--	--	--	--	--	--	--	--
75-151	clay	Playa	--	Rush Valley	14	7S	4W	45	0.2	0.7	--	G9	2.3	2.0	0.4	Amphibole 0.5
75-150A	"	--	--	"	27	"	5W	470	0.6	1.3	--	3.5	1.1	2.4	--	--
75-150B	tuff	--	--	"	"	"	"	37	--	--	--	--	0.4	--	--	H 0.3
75-149A	opal	--	--	"	33	"	"	27	--	--	--	1.6	--	1.4	--	--
75-149B	marl	--	--	"	"	"	"	110	0.2	0.8	--	2.6	--	8.0	0.6	--
75-144A	clay	Playa	Q	Gold Hill	9	7S	17W	150	0.2	1.0	--	4.0	4.3	2.6	2.2	H 2.3 Ar 1.3
75-144B	"	"	"	"	"	"	"	120	0.1	0.7	--	3.2	0.9	3.4	0.9	H 1.5 Ar 1.4
75-144C	clay & carbonate	"	"	"	"	"	"	90	0.2	0.8	--	2.4	0.5	3.8	0.9	H 1.0 Ar 1.4
75-144D	"	"	"	"	"	"	"	130	0.1	0.7	--	3.8	2.7	3.6	1.2	H 1.7 Ar 1.5
75-145	igneous	--	PG	"	25	"	18W	66	--	--	--	G9	G9	--	--	Biotite 8.4
75-146	carbonate	--	--	Spotted Fawn Silver Hill Mine	"	"	"	5	--	--	--	G9	--	G9	5.3	--
75-148A	clay	--	T	Rush Valley	4	8S	5W	22	0.1	0.3	--	1.1	--	G9	--	--
75-148B	"	--	"	"	"	"	"	60	0.4	0.8	--	4.3	--	5.3	--	Gy 3.5
75-143B	alteration	--	Pz	Gold Hill	11	"	18W	18	--	--	--	--	--	--	--	--
75-139	clay	--	T	Ihupah	22	"	19W	64	--	--	--	--	--	--	--	--
75-147	"	--	--	Lofgren	"	9S	4W	46	0.3	0.9	--	G9	--	3.6	3.1	--
76-33E	"	--	Pz	Boulton Pass	"	"	"	72	--	--	--	--	--	--	--	--
76-33C	"	--	"	"	"	"	"	100	--	--	--	--	--	--	--	--
75-141	tuff	--	T	Ihupah	3	9S	19W	58	--	--	--	--	--	--	--	--
75-140	clayey tuff	--	"	"	20	"	"	58	--	--	--	--	--	--	--	--
75-109B	salt	Playa	Q	G.S.L.D.	17	10S	14W	85	--	--	--	--	--	--	--	--
75-109C	clay	"	"	"	"	"	"	71	0.2	0.4	--	1.2	--	1.9	0.5	H 1.8 Ar 1.8
75-109D	"	"	"	"	"	"	"	71	--	0.5	--	1.8	--	8.3	0.5	H 1.4
75-109F	"	"	"	"	"	"	"	74	--	--	--	1.2	--	0.7	0.6	H-G9
75-108B	travertine	"	"	"	33	"	"	11	--	--	--	--	--	G10	--	--
75-108C	salt	"	"	"	"	"	"	17	--	--	--	0.2	--	--	0.9	H 3.1 Gy-G9 Ba 4.5

UTAH COUNTY

76-10A	shale	Manning Canyon	P	Clinton Clay Pits	9	5S	1W	110	--	--	--	--	--	--	--	--
76-10B	"	"	"	"	"	"	"	180	--	--	--	--	--	--	--	--
76-10C	"	"	"	"	"	"	"	290	--	--	--	--	--	--	--	--
76-10D	"	"	"	"	"	"	"	290	--	--	--	--	--	--	--	--
76-10E	"	"	"	"	"	"	"	77	--	--	--	--	--	--	--	--
76-10F	"	"	"	"	"	"	"	140	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	L1 (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
UTAH COUNTY (CONT'D)																
76-10C	shale	Manning Canyon	JP	Clinton Clay Pits	9	5S	1W	160	--	--	--	--	--	--	--	--
76-10H	"	"	"	"	"	"	"	130	--	--	--	--	--	--	--	--
76-34C	clay	"	"	Fairfield	21	6S	3W	23	--	--	--	--	--	--	--	--
76-34D	"	"	"	"	"	"	"	350	--	--	--	--	--	--	--	--
76-34B	pyrophyllite	"	"	"	22	"	"	190	--	--	--	--	--	--	--	--
76-34E	clay	"	"	"	"	"	"	4	--	--	--	--	--	--	--	--
76-22B	shale	"	"	Five Mile Pass	35	"	"	88	--	--	--	--	--	--	--	--
74-143	"	--	--	Warm Springs	13	7S	1W	200	--	--	--	--	--	--	--	--
76-11A	chert	--	--	Fox Hills Clay	20	"	"	17	--	--	--	--	--	--	--	--
76-11B	tuff	--	--	"	"	"	"	95	--	--	--	--	--	--	--	--
76-11C	"	--	--	"	"	"	"	82	--	--	--	--	--	--	--	--
76-11D	"	--	--	"	"	"	"	82	--	--	--	--	--	--	--	--
76-11E	clay	--	--	"	"	"	"	63	--	--	--	--	--	--	--	--
76-11F	clay shale	--	--	"	"	"	"	104	--	--	--	--	--	--	--	--
76-34F	shale	--	--	Fairfield	4	"	3W	200	--	--	--	--	--	--	--	--
WASATCH COUNTY																
74-145	tuff	Keetly volc.	T	Keetly	18	2S	5E	15	--	--	--	--	--	--	--	--
WASHINGTON COUNTY																
74-214A	clay	Muddy Creek	T	Enterprise	14	37S	16W	19	--	--	--	--	--	--	--	--
74-214B	"	"	"	"	"	"	"	28	--	--	--	--	--	--	--	--
74-217A	volcanics	"	"	"	5	"	19W	28	--	--	--	--	--	--	--	--
74-217B	perlitic tuff	"	"	"	"	"	"	5	--	--	--	--	--	--	--	--
74-217C	tuff	"	"	"	"	"	"	57	--	--	--	--	--	--	--	--
74-217D	tuff breccia	"	"	"	"	"	"	18	--	--	--	--	--	--	--	--
74-218	tuff	"	"	"	1	"	"	42	--	--	--	--	--	--	--	--
74-220A	clay	--	K	Vayo	30	39S	16W	33	--	--	--	--	--	--	--	--
74-220B	shale-clayey	--	"	"	"	"	"	21	--	--	--	--	--	--	--	--
74-220C	"	--	"	"	"	"	"	28	--	--	--	--	--	--	--	--

Table 1.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li (ppm)	7A clay	10A clay	15-14A clay	Quartz	Feldspar	Calcite	Dolomite	Other ^{2/}
WASHINGTON COUNTY (CONT'D)																
74-223A	clayey carbonate	--	T	Tobin Wash	9	40S	17W	18	--	--	--	--	--	--	--	--
74-223B	bentonitic clay	--	"	"	"	"	"	9	--	--	--	--	--	--	--	--
74-223C	"	--	"	"	"	"	"	20	--	--	--	--	--	--	--	--
74-219	clay	--	K	Veyo	11	"	"	37	--	--	--	--	--	--	--	--
74-221A	shale	--	"	Hogatsu Wash	"	"	"	48	--	--	--	--	--	--	--	--
74-221B	clayey shale	--	"	"	"	"	"	48	--	--	--	--	--	--	--	--
74-222	tuff	volcanics	T	Santa Clara	15	"	"	16	--	--	--	--	--	--	--	--
74-224	limestone	Claron	"	Gunlock	21	"	"	7	--	--	--	--	--	--	--	--
74-226A	tuff	Muddy Creek	"	Slaughter Ck.	5	"	19W	44	--	--	--	--	--	--	--	--
74-226B	siltstone	"	"	"	"	"	"	100	--	--	--	--	--	--	--	--
74-226C	tuff	"	"	"	"	"	"	23	--	--	--	--	--	--	--	--
74-226D	"	"	"	"	"	"	"	65	--	--	--	--	--	--	--	--
74-209A	clay	Chinle	"	Duffin Mine	20	41	13W	74	--	--	--	--	--	--	--	--
74-209B	"	"	"	"	"	"	"	85	--	--	--	--	--	--	--	--
74-209C	"	"	"	"	"	"	"	56	--	--	--	--	--	--	--	--
74-209D	shale	"	"	"	"	"	"	50	--	--	--	--	--	--	--	--
74-209E	bentonitic clay	"	"	"	"	"	"	35	--	--	--	--	--	--	--	--

^{1/} pC, Precambrian; Pz, Paleozoic; C, Cambrian; O, Ordovician; D, Devonian; M, Mississippian; P, Pennsylvanian; P, Permian; T, Triassic; J, Jurassic; K, Cretaceous; T, Tertiary; Q, Quaternary.

^{2/} Am, Amorphous; Ap, Apatite; Ar, Aragonite; Ba, Bassanite (Plaster of Paris); C, Clinoptilolite-Heulandite; Cr, Cristobalite-opaline silica; F, Fluorite; Gy, Gypsum; H, Halite; Mag, Magnesite; Py, Pyrite.

Table 2.--Lithium concentration in water samples collected in Utah

[Leaders (--) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (μ mhos @ 25°C)	Specific Gravity
Beaver County								
75-182D	Beaver Lake Mountain	29	26S	11W	7.5	0.02	70,000	1.057
74-186	Squaw Springs	26	27S	13W	16	.05	1,500	1.000
74-184	Wahwah Springs	11	27S	15W	--	.01	730	1.000
76-15	well	12	29S	11W	18	.26	1,470	1.000
75-160J	well	3	30S	12W	--	.03	730	1.000
74-188A	Thermo Hot Springs	22	30S	12W	--	1.4	2,100	1.001
75-163I	Commissary Creek	12	30S	18W	14	.01	380	1.000
Box Elder County								
75-117D	Newfoundland Mtns.	15	5N	13W	22	21	130,000	1.062
75-116E	do	24	5N	13W	24	27	160,000	1.131
74-130A	Pilot Valley	36	5N	19W	17	.05	370	1.000
75-112B	Lakeside	19	6N	9W	26	108	160,000	1.248
75-113D	Strong Knob	22	6N	10W	26	36	150,000	1.142
74-112A	Utah Hot Springs	14	7N	2W	63	12	25,500	1.014
74-94	Shaw Spring	6	7N	5W	17	.11	1,300	1.000
74-95A	Great Salt Lake	17	7N	5W	--	9.2	75,000	1.043
74-129	Rabbit Spring	24	8N	18W	14	.07	640	1.000
74-115A	Malad River	14	10N	3W	14	.34	2,100	1.001
74-117	pond	21	10N	3W	--	1.0	5,800	1.003
74-39A	Sulfur Creek	30	10N	3W	17	.34	3,200	1.001
74-90A	pond	30	10N	3W	--	170	180,000	1.240
74-91	Stinking Spring	30	10N	3W	17	5.5	48,000	1.024
74-98	Connors Spring	16	10N	4W	--	.34	4,000	1.001
74-96	Mud Springs	7	10N	6W	18	.03	970	1.000
74-97	spring	2	10N	7W	22	.02	830	1.000
74-84	Crystal Spring	29	11N	2W	53	7.5	58,300	1.028
74-83A	Malad River	2	11N	3W	20	.62	4,900	1.001
74-82	Salt Springs	6	11N	3W	21	.29	2,750	1.001
74-120	Cedar Springs	34	11N	7W	15	.11	2,600	1.001
74-123A	Locomotive Springs	8	11N	9W	22	9.0	75,000	1.051
75-152D	Kalton	12	11N	12W	6	12	79,000	1.042
75-152F	do	12	11N	12W	17	4	29,000	1.013
74-127	spring	34	11N	15W	19	.01	340	1.000
74-132	Etna - well	13	11N	19	38	.02	310	1.090
74-95	Garland Springs	31	12N	2W	13	.05	800	1.000
74-122C	Salt Wells Valley	34	12N	8W	--	10	56,000	1.044
74-126	Warm Springs	19	12N	15W	24	.01	350	1.000

Table 2.—Lithium concentration in water samples collected in Utah (Continued)

[Leaders (—) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (umhos @ 25°C)	Specific Gravity
Box Elder County (continued)								
74-79	Uddy Hot Springs	23	13N	3W	38	1.0	12,300	1.002
74-80A	Malad River	23	13N	3W	20	1.0	6,600	1.003
74-125	Park Valley - spring	30	13N	12W	—	0.02	1,750	1.000
74-76A	Portage - spring	4	14N	3W	17	.04	535	1.000
74-77A	Malad River	5	14N	3W	19	.93	6,800	1.003
74-78	Mound Springs	27	14N	3W	14	.02	700	1.000
Davis County								
74-110A	Hooper Hot Springs	27	5N	3W	55	2.5	11,800	1.006
Duchesne County								
74-146A	Indian Canyon	1	4S	5N	8	1.0	3,000	1.002
74-146B	do	1	4S	5W	9	0.54	1,460	1.001
Garfield County								
74-205F	Antimony	22	31S	1W	13	.38	2,700	1.001
Grand County								
74-159C	Fisher Valley	20-21	24S	24E	16	.11	21,000	1.012
74-159F	do	20-21	24S	24E	21	.60	140,000	1.106
74-158A	Moab	12	26S	21E	—	.22	180,000	1.207
Iron County								
75-160G	Black Mountain	23	31S	11W	—	.02	390	1.000
75-160F	do	35	31S	11W	—	.02	390	1.000
75-183H	Three Peaks	19	35S	12W	—	.18	2,450	1.000
74-208A	Cedar City	21	36S	12W	18	1.0	64,000	1.044
75-184	Red Hills	16	36S	14W	10.5	.02	1,420	1.000
75-185J	Iron Mountain	35	36S	14W	8	.06	2,250	1.001
Juab County								
76-32G	Tintic (Burrison Pass)	17	10S	2W	12	0.02	—	—
76-32H	do	22	10S	2W	—	5.0	—	—
75-74	Fish Springs Flat	9	11S	12W	—	2.2	11,600	1.006
74-109	Cold Spring	10	11S	14W	18	1.3	8,500	1.005
74-108	Big Springs	14	11S	14W	24	.67	2,420	1.002
75-107D	Fish Springs Flat	36	11S	14W	22	11	54,000	1.029
75-75	Wild Horse Spring	10	12S	12W	—	.23	6,300	1.004

Table 2.--Lithium concentration in water samples collected in Utah (Continued)

[Leaders (--) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (umhos @ 25°C)	Specific Gravity
Juab County (continued)								
74-177A	Spor Mountain	13	12S	12W	19	1.7	68,000	1.048
75-73	do	31	12S	12W	--	.28	2,300	1.003
74-107	Caan Spring	22	12S	14W	17	1.9	8,300	1.006
74-174	Cherry Creek	16	12S	5W	10	.05	--	--
74-106A	Abraham Hot Spring	10	14S	8W	80	1.1	4,450	1.003
75-79A	Schoenburger Spring	22	14S	11W	13	.06	1,700	1.002
75-78D	Joy - spring	26	14S	11W	13	.07	2,200	1.002
Hillard County								
76-30J	Little Drum Mountain	29	15S	11W	18	.03	--	--
74-182D	Snake Valley	30	15S	18W	--	1.6	70,000	1.057
74-105	Delta	22	16S	6W	17	.11	1,780	1.001
74-181	Bishop Springs	22	16S	18W	19	.06	840	1.001
76-30A	Little Drum Mountain	4	17S	10W	18	.1	--	--
74-180	Tula Spring	10	17S	15W	28	.26	3,000	1.002
75-104	Sevier Playa	22	19S	10W	22	.56	14,200	1.010
75-157	Holden	32	20S	5W	18	.06	980	1.000
75-98A	Sevier Playa	3	21S	12W	32	38	170,000	1.236
75-158	Meadow-Hutton	9	22S	5W	17	.57	2,750	1.002
76-12E	do	11	22S	6W	12	.5	2,750	1.001
76-13	do	27	22S	6W	24	3.5	7,090	1.004
74-196A	do	35	22S	6W	52	3.7	7,500	1.004
74-251C	Sevier Playa	3	22S	12W	13	40	160,000	1.194
75-100C	do	13	22S	12W	23	20	160,000	1.248
74-183	Garrison	20	22S	19W	12	.07	2,300	1.002
74-245A	Sevier Playa	7	23S	11W	11	13	10,000	1.090
75-102	do	30	23S	11W	26	17	110,000	1.034
75-103D	do	2	23S	12W	--	15	100,000	1.079
74-253	do	6	23S	12W	10	.16	1,570	1.000
75-101E	do	18	24S	12W	--	.22	6,000	1.004
74-195	Black Rock	8	25S	9W	16	.03	500	1.000
74-257A	Thermo Hot	28	30S	12W	26	1.3	2,350	1.001
74-257C	do	28	30S	12W	60	1.4	2,400	1.002
Rich County								
74-48	Fabula Spring	20	13N	6E	--	.04	650	1.000
Salt Lake County								
74-140	Wasatch Hot Springs	25	1N	1W	41	.62	7,300	1.001

Table 2.--Lithium concentration in water samples collected in Utah (Continued)

[Leaders (—) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (umhos @ 25°C)	Specific Gravity
San Pete County								
75-176D	Sterling	9	19S	2E	--	.10	1,500	1.000
Sevier County								
74-166F	Redwood	34	20S	1E	--	.60	180,000	1.207
74-167A	do	36	20S	1E	19	.12	9,600	1.005
74-198	Richfield	26	23S	3W	21	.03	660	1.000
74-200A	Red Hill	11	23S	3W	76	.80	4,000	1.002
74-201A	Joseph Hot Spring	24	23S	4W	18	2.5	9,300	1.004
Tooele County								
74-229N	Great Salt Lake Desert	15	1N	7W	--	38	190,000	1.205
74-229O	do	15	1N	7W	--	50	190,000	1.205
75-124A	do	7	1N	16W	--	57	180,000	1.193
75-122A	do	2	1N	17W	19	77	180,000	1.180
75-122B	do	2	1N	17W	19	71	190,000	1.181
75-122C	do	2	1N	17W	22	80	190,000	1.202
74-229I	do	6	1N	17W	--	54	190,000	1.206
74-229A	do	10	1N	17W	--	48	190,000	1.204
75-123A	do	14	1N	17W	--	74	50,000	1.191
74-229H	do	19	1N	17W	--	39	190,000	1.206
74-229B	do	20	1N	17W	--	53	190,000	1.206
74-229K	do	22	1N	17W	--	47	190,000	1.206
74-229C	do	28	1N	17W	--	55	190,000	1.208
74-229E	do	29	1N	17W	--	44	190,000	1.206
74-229J	do	30	1N	17W	--	43	185,000	1.200
74-229T	do	25	1N	18W	--	33	190,000	1.205
74-229F	do	26	1N	18W	--	110	190,000	1.211
74-229S	do	36	1N	18W	--	33	190,000	1.205
75-125	Pilot Valley	1	1N	19W	16	.13	1,200	1.000
75-127E	do	3	4N	18W	20	87	190,000	1.204
75-132E	do	8	4N	18W	19	67	200,000	1.205
75-129D	do	13	5N	18W	19	79	200,000	1.204
75-128D	do	35	5N	18W	21	80	190,000	1.191
75-96A	Great Salt Lake Desert	29	25N	70E	--	23	10,200	1.005
74-139	Timpia	16	1S	8W	20	1.0	11,600	1.005
74-136E	Great Salt Lake Desert	14	1S	14W	--	20	130,000	1.093
74-229U	do	14	1S	14W	--	24	190,000	1.204
74-229Q	do	1	1S	18W	--	42	190,000	1.206

Table 2.--Lithium concentration in water samples collected in Utah (Continued)

[Leaders (--) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (umhos @ 25°C)	Specific Gravity
Tooele County (continued)								
74-229L	Great Salt Lake Desert	2	1S	18W	--	52	190,000	1.201
74-229G	do	2	1S	18W	--	20	190,000	1.207
74-229R	do	12	1S	18W	--	43	190,000	1.206
74-229D	do	14	1S	18W	--	59	190,000	1.205
74-229P	do	14	1S	18W	--	30	190,000	1.205
75-122E	do	14	1S	18W	18	54	200,000	1.202
75-122D	do	25	1S	18W	20	27	190,000	1.204
74-229M	do	2	1S	18W	--	44	190,000	1.207
75-126	do	2	1S	19W	26	1.2	9,800	1.004
75-133A	do	34	1S	19W	--	22	130,000	1.090
74-137	Grantsville	16	2S	6W	32	2.4	30,000	1.015
74-138	Salt Mountain	16	3S	8W	28	.8	10,200	1.004
75-138	Blue Lake Spring	7	4S	19W	28	1.5	8,000	1.003
75-143A	Gold Hill	11	8S	18W	13	.10	3,700	1.002
75-142	Ibapah	34	8S	19W	--	.012	270	1.000
75-109A	Great Salt Lake Desert	17	10S	14W	32	26	145,000	1.107
75-109E	do	17	10S	14W	24	29	150,000	1.124
75-109G	do	17	10S	14W	23	30	150,000	1.125
75-108A	Hot Spring	33	10S	14W	58	3.6	32,000	1.017
Utah County								
74-144	Midway	27	3S	4E	34	.67	2,600	1.000
74-142	Saratoga Hot Spring	28	5S	1W	44	.55	2,600	1.000
76-34A	Fairfield	29	6S	2W	12	.01	2,300	1.000
Washington County								
74-225	Veyo	6	40S	16W	32	.03	610	1.000
74-210	LaVerkin	25	41S	13W	42	2.7	14,500	1.008
Weber County								
74-111	Hooper	22	5N	3W	20	.05	400	1.000
74-114	Plain City	29	7N	2W	16	1.2	3,700	1.003
74-113	Willard Reservoir	30	7N	2W	14	.12	1,200	1.001

Table 3.--Lithium, equivalent uranium, uranium and thorium (by neutron activation), beryllium oxide (by beryllometer, Anaconda Co.), and fluorine content (by specific ion electrode) of selected rock samples in the Spor Mountain and Honeycomb Hill areas of west-central Utah.

[Leaders (--) indicate no data]

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
74-177B	520	30	7.0	65	--	--	--	--
177C	360	30	7.4	74	--	--	--	--
177D	44	50	14	13	--	--	--	--
177E	37	30	6.0	27	--	--	--	--
177F	89	60	58	39	--	--	--	--
74-176	330	120	131	65	--	--	--	--
74-175	13	270	259	101	--	--	--	--
74-173	180	40	7.4	45	--	--	--	--
74-172A	130	50	23	78	--	--	--	--
172B	48	60	36	62	--	--	--	--
172C	45	60	23	84	--	--	--	--
172D	54	70	22	92	--	--	--	--
74-174A	130	40	12	71	--	--	--	--
174B	80	50	11	79	--	--	--	--
75-76	330	30	23	97	--	--	--	--
75-77	260	30	20	94	--	--	--	--
75-68A	270	190	222	136	0.03	294	298	--
68B	400	230	260	187	.25	298	303	--
68C	85	60	26	88	.27	303	318	--
75-65A	140	40	8.5	76	N	382	385	--
65B	170	50	8.8	107	.03	385	388	--
65C	200	60	35	136	.03	388	500	--
65D	73	120	128	153	T	511	522	--
65E	410	150	132	169	.03	522	524	--

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
75-65F	100	100	76	131	T	524	534	--
65G	130	20	6.7	31	T	534	538	--
75-64A	380	110	64	110	.33	1224	1230	--
64B	1100	50	41	113	.04	1230	1237	--
64C	540	80	39	54	T	1237	1255	--
64D	420	40	44	79	T	1255	1264	--
74-104	15	250	235	--	--	--	--	--
74-100B	500	70	87	132	--	0.1	--	--
100C	120	560	327	506	--	2.5	--	--
100F	480	50	71	92	--	--	--	--
74-101A	250	80	30	122	--	--	--	--
101B	170	70	40	90	--	--	--	--
101C	65	70	36	134	--	--	--	--
101D	180	50	30	92	--	--	--	--
101E	100	80	107	152	--	--	--	--
101F	160	--	96	153	--	--	--	--
101G	350	90	79	80	--	--	--	--
101H	140	60	43	136	--	--	--	--
101I	230	60	38	92	--	--	--	--
101J	350	130	102	132	--	--	--	--
101K	170	120	23	97	--	--	--	--
101L	380	40	15	94	--	--	--	--
101M	450	40	21	86	--	--	--	--
101N	410	50	89	--	--	--	--	--
101Ø	500	50	29	80	--	--	--	--

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
74-102A	500	50	29	80	--	--	--	--
102B	750	30	18	103	--	--	--	--
102C	500	10	17	44	--	--	--	--
75-58A	600	80	51	100	.57	770	780	6.00
58B	480	30	12	67	T	790	810	--
58C	620	80	83	59	T	810	832	2.25
58D	230	220	194	116	N	760	766	--
75-61A	210	320	294	162	.09	919	--	2.75
61B	530	190	80	97	--	920	921	2.75
61C	330	60	50	69	--	921	948	3.50
75-53K	140	50	21	104	N	953	--	--
53L	180	50	13	114	--	933	--	--
53M	600	30	20	89	.56	973	--	1.3
53N	5	<10	1.3	--	N	984	--	--
75-53A	180	70	38	98	--	1027	--	--
53B	300	130	78	104	--	1030	--	--
53C	145	70	56	--	--	1042	--	--
53D	260	110	63	111	--	1046	--	--
53E	220	180	125	122	--	1064	--	--
53F	320	170	164	125	--	1079	--	--
53G	250	50	31	98	.15	1096	--	--
53H	310	130	121	144	--	1121	--	--
53I	130	160	75	34	.06	1135	--	--
53J	300	70	35	80	.18	1151	--	--

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
75-61D	740	110	110	123	.58	1066	1079	--
61E	770	70	69	62	N	1079	1106	--
75-53P	200	130	134	91	N	1096	--	--
53P	100	80	43	93	N	1110	--	--
53Q	140	100	63	90	N	1142	--	--
53R	270	80	38	92	.09	1163	--	--
53S	360	80	52	99	.53	1183	--	--
53T	200	70	34	94	.08	1194	--	--
53U	160	80	43	91	.10	1205	--	--
75-59A	250	140	134	81	N	1116	1130	--
59B	510	100	77	90	.74	1130	1145	3.25
59C	930	30	24	71	N	1145	1160	2.25
59D	600	40	19	49	N	1160	1185	1.00
75-62D	130	140	92	131	T	1162	1176	--
62E	170	180	173	123	N	1157	1162	--
62F	160	220	177	129	T	1176	1215	--
62G	170	270	247	197	N	1215	1222	--
62H	150	150	166	139	.02	1222	1253	--
62I	240	90	62	109	.03	1253	1278	--
62J	200	70	62	87	.11	1278	1292	--
75-62A	210	110	63	113	.48	1242	1254	--
62B	500	80	62	98	.39	1254	1282	2.50
62C	200	50	35	78	.19	1282	1315	--
75-60E	140	140	114	140	T	248	260	--
60F	180	80	56	95	.02	253	276	--

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
75-60G	170	40	20	78	N	276	292	--
60H	170	60	17	79	.02	292	339	--
60I	270	30	10	68	.05	339	342	--
75-63A	190	100	100	135		326	330	--
63B	220	60	38	85	.07	330	348	--
75-60A	140	90	82	123	N	435	456	--
60B	180	60	35	118	.03	456	477	--
60C	360	40	15	92	.09	477	482	--
60D	150	40	15	78	.07	482	498	--
75-56G	290	310	492	--	N	564		--
56H	240	210	159	121	.03	566	568	--
56I	680	50	32	59	.25	570	590	2.25
75-67A	240	100	99	140	N	756	765	--
67B	350	50	28	59	.04	765	776	--
67C	260	40	184	151	.02	776	786	--
75-55A	150	10	8.0	12	N	632	--	--
55B	1300	60	46	119	T	625	--	1.50
55C	700	20	19	66	N	635	--	1.00
55D	490	60	49	72	.02	647	--	--
55E	190	40	16	84	N	656	--	--
75-56C	550	40	16	91	T	674	684	6.75
55D	310	20	18	23	T	684	688	--
56E	510	50	20	72	T	688	701	1.60
56F	590	20	7.5	29	T	701	713	1.45

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
74-171	62	50	12	91	--	--	--	--
74-103	270	80	71	123	--	--	--	--
74-179A	450	50	26	93	--	--	--	--
179B	640	40	12	98	--	--	--	--
179C	1250	60	48	101	--	--	--	--
75-57A	300	330	439	--	T	444	--	--
57B	350	310	251	166	.04	450	--	--
57C	360	100	94	121	T	460	470	--
75-56A	350	60	39	113	.43	460	--	--
56B	150	<10	7.0	27	.04	472	--	--
75-70A	620	80	65	71	.03	208	220	--
70B	450	60	52	61	T	220	233	--
75-66A	320	20	4.2	63	T	358	368	--
66B	150	20	5.3	50	N	369	372	--
75-54Q	220	90	36	119	N	407	--	--
54R	130	90	45	173	.04	413	--	--
54S	250	20	10	69	N	419	--	--
54T	20	30	3.0	33	N	421	--	--
75-71A	360	30	5.4	79	N	449	466	--
71B	300	30	13	93	N	466	478	--
71C	120	<10	4.3	33	N	478	489	--
75-69A	170	470	556	281	T	469	471	--
69B	300	400	423	266	.29	471	475	--
69C	380	40	27	96	.78	475	489	--
69D	540	40	35	112	.56	489	498	--
69E	560	20	12	83	.51	498	506	--

Field No.	Li (ppm)	eU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
75-72A	220	130	121	101	.76	633	649	--
72B	290	180	204	145	.05	649	657	--
72C	150	50	39	52	N	657	661	--
72D	240	50	23	93	.02	661	669	--
72E	400	30	10	59	N	669	676	--
75-54I	430	220	197	120	N	756	--	--
54J	190	50	22	87	1.42	770	--	--
54K	160	60	49	114	1.15	778	--	--
54L	310	80	61	111	1.02	791	--	--
54M	480	40	21	84	1.09	811	--	--
54N	480	60	33	102	.67	823	--	--
54O	490	30	8.0	85	N	847	--	--
54P	90	10	6.7	19	N	839	--	--
75-54A	240	150	151	154	.03	1023	--	--
54B	320	30	12	72	N	1043	--	--
54C	190	30	22	43	--	1068	--	--
54D	360	40	11	91	--	1055	--	--
75-54E	170	70	41	133	--	500	503	--
54F	240	140	119	126	--	504	--	--
54G	460	40	23	90	--	519.5	--	--
54H	270	30	7.0	85	--	539	--	--

Field No.	Li (ppm)	eeU (ppm)	U (ppm)	Th (ppm)	BeO (%)	Depth (ft.)		F (%)
						From	To	
75-80A	940	40	8.1	39	--	--	--	--
80B	120	40	8.4	41	--	--	--	--
80C	480	40	8.6	39	--	--	--	--
80D	340	40	14	45	--	--	--	--
80E	490	110	74	51	--	--	--	--
80F	220	60	39	27	--	--	--	--
80G	130	50	12	49	--	--	--	--
80H	230	20	5.8	32	--	--	--	--
80I	170	300	326	195	--	--	--	--
80J	160	120	173	109	--	--	--	--
80K	140	30	16	48	--	--	--	--
80L	220	60	32	65	--	--	--	--
80M	230	50	30	49	--	--	--	--
80N	110	20	4.9	28	--	--	--	--
80O	130	30	5.9	30	--	--	--	--
80P	120	30	7.1	29	--	--	--	--

Table 4.--Lithium content and whole rock mineralogy of rock samples collected in Idaho, 1974-1976

[Leaders (--) indicate not detected in the mineralogy column and no data in the other columns. X-ray diffraction traces were generated by CuK alpha radiation at 24 kilovolts and 18 milliamperes scanned at 2 degrees per minute. Full scale represented by 10 inches on the chart paper trace indicated 3,000 counts per second on the X-ray machine. The values listed for each mineral is the height of the major peak for that mineral in inches.]

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li	15-14A clay	10A clay	7A clay	Quartz	Feldspar K P		Calcite	Dolomite	Other ^{2/}
Bannock County																	
74-65	clay		T	Arimo	18	10S	37E	30	--	0.9	0.3	G ^{1/}	0.8	1.6	2.1	1.3	--
74-63A	"	"	T	Preston	14	13S	30E	12	1.2	--	0.2	1.8	0.3	0.2	0.7	--	C 1.5 Cr 1.7
74-63B	"	"	T	"	"	"	"	10	1.4	0.8	0.2	2.5	0.3	0.9	1.6	--	Cr 1.1 Ca .8
Bear Lake County																	
74-59A	clay	Salt Lake Gp.(?)	T	Georgetown	18	11S	44E	23	1.4	0.3	0.2	6.3	1.1	1.8	6.8	0.8	--
74-59B	clay	"	T	"	"	"	"	29	0.6	0.7	0.3	5.2	0.3	0.9	5.0	0.2	--
74-54A	phosphate	Phosphoria	P	Paris	21	14S	43E	5	--	0.7	0.2	4.5	--	--	--	--	Ap 4.0
74-54B	"	"	P	"	"	"	"	34	--	1.0	1.8	G	--	--	--	--	Ap 1.9
74-54C	"	"	P	"	"	"	"	26	--	2.1	2.5	G	0.4	--	--	--	Ap 0.5
74-55	caliche	"	Q	Bloomington	31	14S	44E	16	0.2	0.2	0.2	4.7	0.2	0.5	0.9	4.0	--
74-53B	clay	spring deposit	Q	Bear Lake	24	15S	44E	15	--	--	--	G	0.3	0.9	3.5	G	--
74-50	mollusc	Bear Lake beach	Q	"	14	16S	43E	7	--	--	--	--	--	--	--	--	Ar 5.4
74-51	tuff	Salt Lake Gp.(?)	T	Fish Haven	15	16S	43E	10	--	--	--	--	--	--	--	--	--
Bonneville County																	
74-26	clay	Salt Lake Gp.(?)	T	Ozone	11	1N	39E	49	--	0.3	0.7	1.5	0.5	7.9	0.4	--	--
74-24	"	"	T	Ammon	28	1N	39E	12	--	--	--	--	--	1.5	--	--	--
74-28A	"	silicic volcanics	T	Idaho Springs	6	2N	39E	65	--	0.8	0.2	6.3	0.9	9.5	--	--	--
74-23B	tuff	"	T	"	"	"	"	65	1.1	0.2	0.8	0.5	0.1	0.5	--	--	--
74-25	"	"	T	Willow Creek	5	1S	39E	50	0.4	0.4	0.2	4.4	0.3	--	--	--	--
74-22	"	Salt Lake Gp.(?)	T	Alpine	16	2S	46E	13	--	--	--	0.2	--	--	G	--	--
Caribou County																	
74-42	lime	Salt Lake Gp.(?)	T	Soda Springs	34	7S	38E	11	--	--	0.2	0.4	--	--	G	--	H 0.4
74-47A	clay	"	T	Soda Springs	26	9S	42E	31	0.9	0.5	0.4	9.5	1.7	1.9	4.4	1.8	--
74-47B	travertine	"	T	"	"	"	"	10	--	--	--	0.7	--	--	G	--	--
74-57B	clay	"	Q	Sage Valley	9	9S	46E	26	0.6	1.1	0.6	G	1.2	3.3	--	--	--
74-58	cgl	"	T	Crow Creek	14	"	"	23	0.4	0.8	0.3	G	0.5	1.8	7.5	0.2	--
Elmore County																	
74-40A	cinders	Payette	T	Glenns Ferry	28	5S	10E	7	--	--	--	0.6	0.2	3.4	1.0	--	--
74-40B	tuff	"	T	"	"	"	"	25	0.7	2.0	0.3	G	2.4	3.8	1.1	2.5	Am 0.6

Table 4.--Continued

Field No.	Rock Type	Formation	Age 1/	Locality	Section	Township	Range	Li	15-14A clay	10A clay	7A clay	Quartz	Feldspar		Calcite	Dolomite	Other 2/
													K	P			
Franklin County																	
74-43A	clay	Salt Lake Gp.(?)	T	Thatcher	23	12S	40E	18	0.3	--	--	3.1	0.4	0.7	G	--	H 0.3
74-43B	tufa	"	T	"	"	"	"	13	--	--	--	0.4	--	--	G	--	H 0.4
74-44A	clay	"	T	"	25	12S	40E	39	--	1.5	0.3	G	2.9	2.4	0.4	--	--
74-44B	gypsum	"	T	"	"	"	"	27	0.3	--	--	3.5	0.4	1.3	0.9	--	Gy-6
74-60C	nodule	Spring deposit	Q	Cleveland	31	12S	41E	7	--	--	--	0.4	--	--	7.6	0.4	Gy 4.0
74-60E	sand	"	Q	"	"	"	"	27	--	1.2	--	9.0	1.2	0.7	--	--	Py 1.0
74-45B	clay	Spring deposit	Q	Maple Grove	7	13S	41E	75	0.4	3.0	1.1	G	1.1	1.2	0.3	--	--
74-45C	--	"	Q	"	"	"	"	34	--	0.3	--	1.7	--	--	1.9	--	Ar 2.5
74-45D	tufa	"	Q	"	"	"	"	14	--	--	--	0.4	--	--	G	--	Ar 0.6
74-45E	clay	"	Q	"	"	"	"	12	--	--	--	--	--	--	G	--	Ar 0.7
74-45F	travertine	"	Q	"	"	"	"	12	--	--	--	--	--	--	G	--	Ar 0.3
74-45G	"	"	Q	"	"	"	"	10	--	--	--	--	--	--	--	--	--
74-61	clay	Salt Lake Gp.(?)	T	Oneida Narrows	16	14S	40E	24	0.2	1.2	0.5	G	0.9	1.5	1.8	0.2	--
74-62B	precip.	Spring deposit	Q	Preston	17	15S	39E	46	--	--	--	0.6	--	--	--	--	H-G sylvite 2.4
74-62C	precip.	"	Q	"	"	"	"	12	--	--	--	0.2	--	--	G	--	H 0.4
74-62D	clay	"	Q	"	"	"	"	20	--	0.4	--	4.0	0.3	0.9	G	0.3	H 0.3
Jefferson County																	
74-30A	clay	Lake beds	Q	Roberts Lake	1	5N	36E	35	0.4	0.7	0.5	9.2	1.5	2.2	0.9	--	Cr 9.0
Kootenai County																	
76-55G	clay	Latah	T	Stockton	8	50N	4W	34	--	--	--	--	--	--	--	--	--
76-55H	"	"	T	"	"	"	"	37	--	--	--	--	--	--	--	--	--
76-55I	granodiorite	"	KJ	"	"	"	"	4	--	--	--	--	--	--	--	--	--
76-55J	gneiss	"	T	Mica Valley	19	49N	5W	19	--	--	--	--	--	--	--	--	--
76-55K	tuff	"	T	Coeur d'Alene	28	50N	3W	24	--	--	--	--	--	--	--	--	--
76-55L	"	"	T	"	"	"	"	13	--	--	--	--	--	--	--	--	--
Latah County																	
76-55A	clay	Latah(?)	T	Hamill	10	40N	1W	46	--	--	--	--	--	--	--	--	--
76-55B	"	Palouse	T	Stanford	36	41N	3W	26	--	--	--	--	--	--	--	--	--
76-55C	"	Latah	T	"	"	"	"	36	--	--	--	--	--	--	--	--	--
76-55D	granodiorite	"	KJ	"	"	"	"	4	--	--	--	--	--	--	--	--	--
76-55E	intrusive	"	KZ	"	"	"	"	2	--	--	--	--	--	--	--	--	--

Table 4.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li	15-14A clay	10A clay	7A clay	Quartz	Feldspar		Calcite	Dolomite	Other ^{2/}
Latah County (continued)																	
76-54A	clay	Palouse	T	Moscow	31	40N	5W	30	--	--	--	--	--	--	--	--	--
76-54B	"	Latah	T	"	"	"	"	31	--	--	--	--	--	--	--	--	--
76-54C	"	Palouse	T	Deary	19	40N	2W	28	--	--	--	--	--	--	--	--	--
76-54D	"	Latah	T	"	"	"	"	11	--	--	--	--	--	--	--	--	--
76-54E	"	Palouse	T	Troy	33	40N	3W	25	--	--	--	--	--	--	--	--	--
76-54F	"	Latah	T	"	"	"	"	42	--	--	--	--	--	--	--	--	--
76-54G	"	"	T	"	"	"	"	72	--	--	--	--	--	--	--	--	--
76-54H	"	"	T	"	"	"	"	37	--	--	--	--	--	--	--	--	--
76-54I	"	"	T	"	"	"	"	20	--	--	--	--	--	--	--	--	--
76-54J	"	"	T	"	"	"	"	20	--	--	--	--	--	--	--	--	--
76-54K	basalt	"	QT	"	"	"	"	25	--	--	--	--	--	--	--	--	--
76-54L	clay	Latah	T	"	"	"	"	41	--	--	--	--	--	--	--	--	--
76-54M	"	"	T	"	"	"	"	64	--	--	--	--	--	--	--	--	--
Lemhi County																	
76-58A	clay	Challis(?)	T	Williams Creek	2	20N	20E	10	--	--	--	--	--	--	--	--	--
76-58B	tuff	"	T	"	"	"	"	25	--	--	--	--	--	--	--	--	--
76-58C	shale	"	T	"	"	"	"	29	--	--	--	--	--	--	--	--	--
76-59A	zeolite(?)	Challis(?)	T	Moccasin Creek	29	21N	20E	6	--	--	--	--	--	--	--	--	--
76-59B	silica	"	T	"	"	"	"	1	--	--	--	--	--	--	--	--	--
76-59C	tuff	"	T	"	"	"	"	4	--	--	--	--	--	--	--	--	--
76-59D	"	"	T	"	"	"	"	2	--	--	--	--	--	--	--	--	--
76-59E	clay	"	T	"	"	"	"	31	--	--	--	--	--	--	--	--	--
76-60A	zeolite(?)	Challis(?)	T	Sail Mountain	15	21N	22E	18	--	--	--	--	--	--	--	--	--
76-60B	clay	"	T	"	"	"	"	27	--	--	--	--	--	--	--	--	--
76-60C	shale	"	T	"	"	"	"	27	--	--	--	--	--	--	--	--	--
76-60D	clay	"	T	"	"	"	"	29	--	--	--	--	--	--	--	--	--
76-60E	siltstone	"	T	"	"	"	"	33	--	--	--	--	--	--	--	--	--
76-60F	shale	"	T	"	"	"	"	28	--	--	--	--	--	--	--	--	--
76-60G	clay	"	T	"	"	"	"	32	--	--	--	--	--	--	--	--	--
76-60H	"	"	T	"	"	"	"	29	--	--	--	--	--	--	--	--	--
76-60I	carbonate	"	T	"	"	"	"	32	--	--	--	--	--	--	--	--	--
76-60J	clay	"	T	"	"	"	"	26	--	--	--	--	--	--	--	--	--
76-60K	"	"	T	"	"	"	"	36	--	--	--	--	--	--	--	--	--
76-60L	carbonate	"	T	"	"	"	"	30	--	--	--	--	--	--	--	--	--
76-60M	clay	"	T	"	"	"	"	12	--	--	--	--	--	--	--	--	--
76-60N	"	"	T	"	"	"	"	28	--	--	--	--	--	--	--	--	--
76-57A	"	Spring deposit	Q	Panther Creek	15	22N	10E	140	--	--	--	--	--	--	--	--	--
76-57B	intrusive	"	Q	"	"	"	"	3	--	--	--	--	--	--	--	--	--
76-57C	"	"	Q	"	"	"	"	32	--	--	--	--	--	--	--	--	--

Table 4.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li	15-14A clay	10A clay	7A clay	Quartz	Feldspar A P		Calcite	Dolomite	Other ^{2/}
Lemhi County (continued)																	
76-57D	intrusive	Spring deposit	Q	Panther Creek	15	23N	10E	4	--	--	--	--	--	--	--	--	--
76-57E	"	"	Q	"	"	"	"	4	--	--	--	--	--	--	--	--	--
76-57F	"	"	Q	"	"	"	"	27	--	--	--	--	--	--	--	--	--
76-57G	"	"	Q	"	"	"	"	2	--	--	--	--	--	--	--	--	--
76-57I	gneiss	"	Q	"	"	"	"	20	--	--	--	--	--	--	--	--	--
76-57J	"	"	Q	"	"	"	"	45	--	--	--	--	--	--	--	--	--
76-57K	"	"	Q	"	"	"	"	59	--	--	--	--	--	--	--	--	--
76-57L	intrusive	"	Q	"	"	"	"	1	--	--	--	--	--	--	--	--	--
76-57M	"	"	Q	"	"	"	"	20	--	--	--	--	--	--	--	--	--
Madison County																	
74-23B	travertine	Spring deposit	Q	Green Canyon	7	5N	42E	9	--	--	--	0.2	--	--	G	--	--
74-23C	"	"	Q	"	"	"	"	8	--	--	--	0.2	--	--	G	--	--
74-29A	carbonate	Menan volcanics	Q	Menan	36	4N	38E	7	0.2	0.2	--	7.4	1.2	1.8	1.2	0.3	--
74-29B	cinders	"	Q	"	"	"	"	6	--	0.3	--	7.5	0.5	1.6	1.1	--	--
Oneida County																	
74-73	clay	Salt Lake Gp.(?)	T	Malad City	27	14S	35E	35	0.4	1.1	0.7	9.6	0.5	1.3	1.4	1.7	--
74-75A	clay	"	T	"	30	14S	37E	26	--	0.2	--	0.5	--	--	--	--	Cr 0.5 C 2.9
74-75B	marl	"	T	"	"	"	"	8	--	0.3	--	G	--	--	1.0	3.0	--
74-75C	"	"	T	"	"	"	"	4	--	0.2	--	0.8	--	--	--	--	Cr 1.0 C 3.4
74-75D	"	"	T	"	"	"	"	27	--	--	--	8.3	--	--	G	--	--
74-75E	claystone	"	T	"	"	"	"	10	--	0.2	--	0.5	--	--	--	--	Cr 1.0 C 2.4
74-75F1	shale	"	T	"	"	"	"	37	--	0.1	--	G	--	0.5	5.5	--	--
74-75F2	marl	"	T	"	"	"	"	29	--	0.2	--	5.0	--	0.3	0.2	G	--
74-75G	"	"	T	"	"	"	"	27	0.6	--	--	0.2	--	--	--	--	Cr 2.0 C 0.6
74-75H	tuff	"	T	"	"	"	"	36	0.8	--	--	0.3	--	--	--	--	C 1.1
74-75I	shale	"	T	"	"	"	"	3	--	0.2	--	--	--	--	--	--	C 3.3
74-75J	marl	"	T	"	"	"	"	16	--	--	--	9.0	--	--	2.6	9.8	--
Owyhee County																	
74-39	tuff	Payette	T	Hammett	33	5S	8E	28	0.7	1.2	0.3	G	1.5	4.2	2.4	3.7	Cr 0.5
74-38	clay	Payette(?)	T	Bruneau Dunes	7	6S	7E	23	1.0	0.4	0.5	6.3	0.4	0.8	--	--	Cr 0.5
74-36A	clay	Payette	T	Hot Spring	10	7S	6E	34	0.3	0.3	0.4	3.7	0.9	1.6	1.0	2.1	--
74-36B	tuff	"	T	"	"	"	"	10	--	0.8	--	1.2	1.6	4.9	--	--	--

Table 4.--Continued

Field No.	Rock Type	Formation	Age ^{1/}	Locality	Section	Township	Range	Li	15-14A clay	13A clay	7A clay	Quartz	Feldspar		Calcite	Dolomite	Other ^{2/}
													K	P			
Power County																	
74-66	clay	Lake beds	Q?	Pocatello	17	6S	33E	13	0.2	0.6	0.3	G	1.5	2.1	1.9	4.2	--
74-67	tuff	"	Q	American Falls	28	7S	31E	14	--	--	--	--	--	--	--	--	Amorphous
74-68	clay	Salt Lake Gp.(?)	T	"	17	9S	31E	28	0.5	0.8	0.5	G	0.8	2.0	0.8	1.3	--
74-70	clay	"	T	Warm Springs	13	10S	30E	31	0.6	--	--	--	--	--	--	--	--
74-69	tuff	"	T	Rockland	14	10S	30E	19	1.4	--	--	0.5	--	0.3	--	--	--
74-71	clay	"	T	"	33	11S	31E	12	0.4	0.7	0.3	G	2.0	2.0	--	0.7	Gy 0.8
Twin Falls County																	
74-35	clay	Payette(?)	T	Thousand Springs	2	8S	13E	31	0.5	1.1	0.8	8.8	0.4	1.3	3.0	1.9	--
74-34	clay	"	T	Miracle Hot Springs	29	8S	14E	33	0.9	0.5	0.7	7.5	0.2	0.8	1.8	0.6	--

^{1/} pG, Precambrian; Pz, Paleozoic; C, Cambrian; O, Ordovician; D, Devonian; M, Mississippian; P, Pennsylvanian; P, Permian; T, Triassic; J, Jurassic; K, Cretaceous; T, Tertiary; Q, Quaternary.

^{2/} Am, Amorphous; Ap, Apatite; Ar, Aragonite; Ba, Bassanite (Plaster of Paris); C, Clinoptilolite-Heulandite; Cr, Cristobalite-opaline silica; F, Fluorite; Gy, Gypsum; H, Halite; Mag, Magnesite; Py, Pyrite.

Table 5.--Lithium concentration in water samples collected in Idaho
[Leaders (--) indicate no data]

Field No.	Locality	Section	T.	R.	Temperature °C	Lithium (mg/l)	Specific Conductance (microhm @ 25°C)
Bannock County							
74-41	Lava Hot Springs	22	9S	38E	--	0.26	1,110
74-64	Downata Hot Spring	13	12S	37E	--	.04	420
Bear Lake County							
74-52	Bear Lake Hot Springs	24	14S	44E	--	.03	1,900
74-53A	do	do	do	do	34	.30	1,950
74-50A	Bear Lake	14	16S	43E	--	.02	800
Bonneville County							
74-27	Willow Creek - spring	6	1N	39E	12	.02	430
Caribou County							
74-46	Hooper Spring	31	8S	42E	11	.14	1,100
74-57	Sage Valley - spring	9	9S	46E	--	.01	430
74-56E	Deer Creek - spring	1	10S	45E	13	.02	790
Cassia County							
75-2A	Bridge - well	23	15S	26E	--	2.5	5,000
75-2B	do	do	do	do	--	1.5	3,300
75-2C	do	do	do	do	--	1.7	5,200
Franklin County							
74-60A	Cleveland - hot springs	31	12S	41E	33	1.1	4,100
74-60B	do	do	do	do	38	1.0	3,950
74-60D	do	do	do	do	60	.95	3,530
74-60F	do	do	do	do	57	.92	3,400
74-45A	Maple Grove Hot Springs	7	13S	41E	77	1.0	2,500
74-62A	Preston	17	15S	39E	83	4.9	21,200
Jefferson County							
74-30B	Roberts Lake	1	5N	36E	--	.08	340
Lemhi County							
TI74-8A	Salmon Hot Springs	3	20N	22E	49	.51	--
TI74-8B	do	do	do	do	--	.50	--
76-57H	Panther Creek Hot Spring	15	23N	18E	--	.72	--
Madison County							
74-23A	Green Canyon Hot Springs	7	5N	42E	46	.02	650
Oneida County							
74-72	Twin Springs	30	13S	32E	11	.02	790
74-75K	Malad	30	14S	37E	13	.04	570
74-74	Pleasant View Warm Springs	3	15S	35E	26	.40	2,320