

DESCRIPTION OF MAP UNITS

Qu	SURFICIAL DEPOSITS, UNDIVIDED (QUATERNARY)
Tv	VOLCANIC ROCKS (TERTIARY)
Tmp	MONZONITE PORPHYRY (TERTIARY)
Tc	CONGLOMERATE (TERTIARY)
Pfu	SEDIMENTARY ROCKS, UNDIVIDED (TRIASSIC AND PERMIAN)—Woodside, Phosphoria, and Park City Formations, Diamond Creek Sandstone, and Kirman Limestone
Pfm	QUINCY GROUP
Pfp	BINGHAM MEMBER(?) FORMATION (PERMIAN AND PENNSYLVANIAN)
Pfo	BUTTERFIELD PEAKS FORMATION (PENNSYLVANIAN)
Pfn	LOWERMOST PART OF QUINCY GROUP (PENNSYLVANIAN)
Pfd	HANNING CANYON SHALE (MISSISSIPPIAN AND MISSISSIPPIAN)
Pfc	GREAT BLUE LIMESTONE (MISSISSIPPIAN)
Pfa	HUMBURG FORMATION AND DESERT LIMESTONE, UNDIVIDED (MISSISSIPPIAN)
Dsu	GARDISON LIMESTONE (MISSISSIPPIAN)
Du	PINTON PEAK LIMESTONE AND STANSBURY FORMATION, UNDIVIDED (DEVONIAN)
Ca	DOLOMITIC ROCKS, UNDIVIDED (DEVONIAN AND SILURIAN)—Simonson(?), Sevy(?), and Laketon Dolomites
Cc	SEDIMENTARY ROCKS, UNDIVIDED (ORDOVICIAN)—Fish Haven Dolomite, Kanosh Shale, and Garden City Formation
Cte	AJAX DOLOMITE (CAMBRIAN)
Co	CARBONATE ROCKS, UNDIVIDED (CAMBRIAN)—Hunderberg and Opex Formations, Cole Canyon and Blackfoot Dolomites, Bowman and Herkimer Limestones, and Daguer Dolomite
Ct	TRONTOIC LIMESTONE (CAMBRIAN)
Ct	OPHIR GROUP OF RIGBY (1958) (CAMBRIAN)
Ct	TINTIC QUARTZITE (CAMBRIAN)

- CONTACT
- - - FAULT—Dashed where approximately located. Bar and ball on downthrown side
- - - - - THRUST FAULT—Dotted where concealed. Sawtooth on upper plate
- - - - - FOLDS—Showing axial trace. Dotted where concealed
- Anticline
- Syncline
- STRIKE AND DIP OF BEDS
- Inclined
- Vertical
- Overturned
- BOUNDARY OF ROADLESS AREAS
- TUNNEL
- X PROSPECT PIT
- \* SAMPLE LOCALITY—Numbers refer to table 1

REFERENCE  
Sorensen, M. L., 1981, Geologic map of the Stansbury Roadless Areas, Tooele County, Utah, U.S. Geological Survey Miscellaneous Field Studies Map MF-1353-A, scale 1:62,500.

Studies Related to Wilderness  
Roadless Areas  
The Wilderness Act (Public Law 88-577, September 3, 1964) and related Acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the Administration and the Congress. This report presents the results of a geochemical survey of the Stansbury Roadless Areas, Tooele County, Utah. Part of this area was classified a Further Planning Area during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

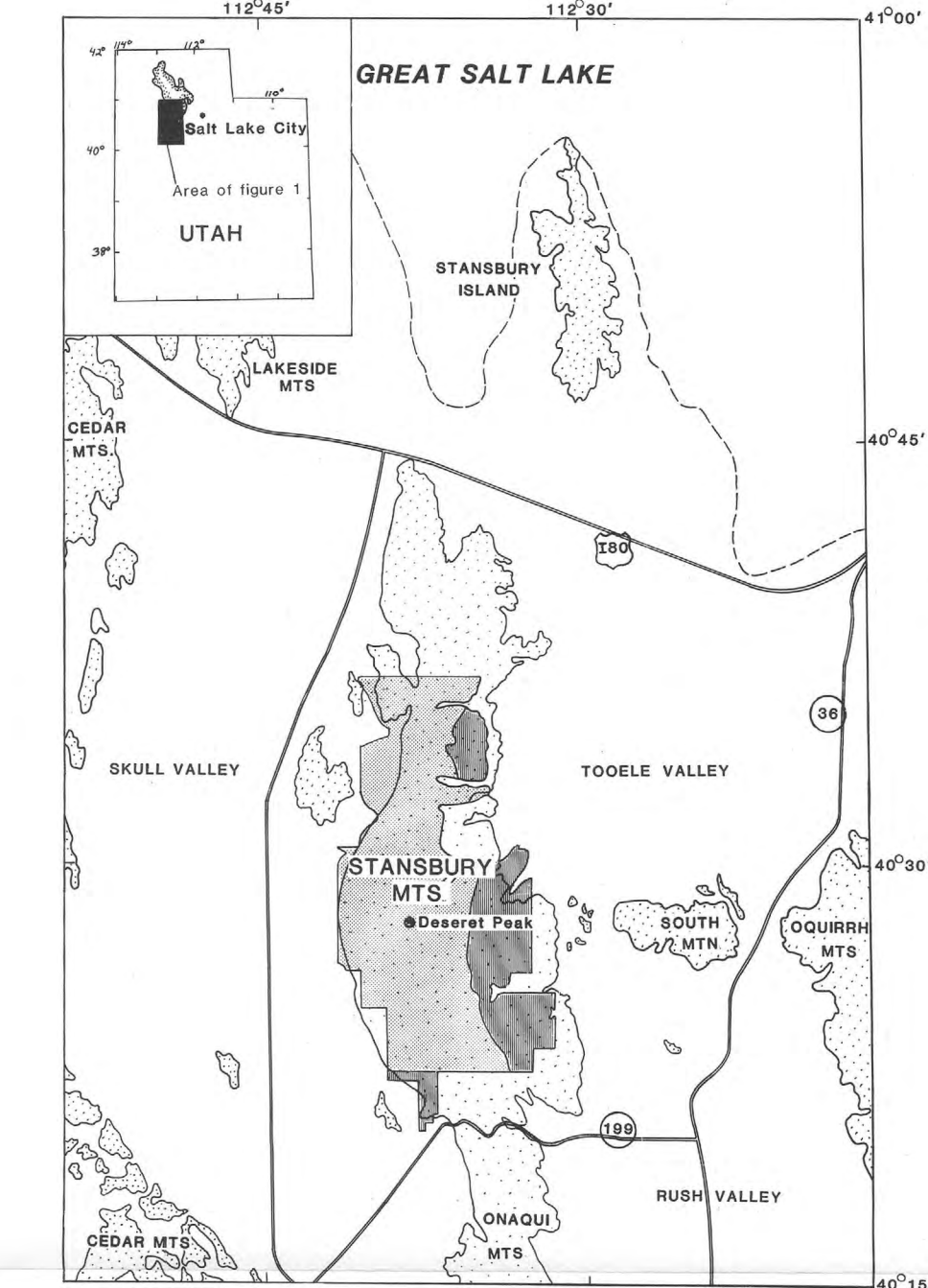


Figure 1. Location of Stansbury Wilderness and Roadless Areas, Utah.

EXPLANATION

Interior—Geological Survey, Reston, Va.—1982  
For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225

Base from U.S. Geological Survey  
Deseret Peak and Timpie, 1955

Samples collected by M. L. Sorensen, 1980.  
Geology from Sorensen (1981)

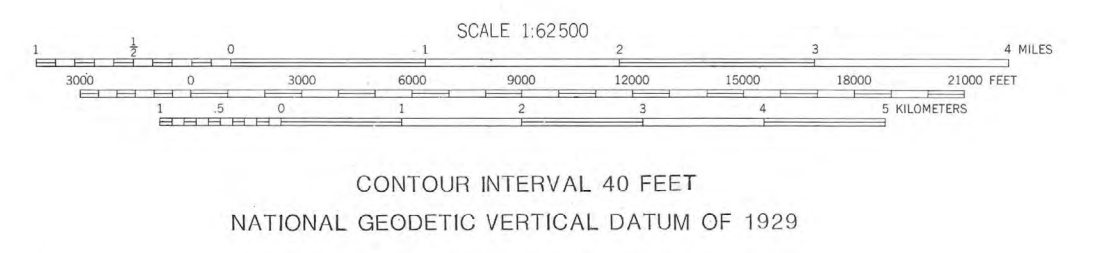


Table 1.—Results of six-step semiquantitative spectrographic analyses of panned stream-sediment samples from Stansbury Wilderness and Further Planning Areas

[Analyses for Fe, Mg, Ca, and Ti reported in weight percent, those for all other elements in parts per million. Results are within geometric brackets whose boundaries are 0.1, 0.18, 0.26, 0.38, 0.56, 0.81, 1.1, and so on, but are reported arbitrarily as the midpoints of these brackets: 0.1, 0.15, 0.2, 0.3, 0.5, 0.7, 1.0, and so on. The precision of a reported value is approximately plus or minus one bracket at the 68 percent confidence level. Lower limits of determination are listed in parentheses. G, greater than value shown; L, detected but below limit of determination; N, not detected at level of determination. Analysis, D. F. Siess and B. Arfan.]

Sample Number	(.05) percent	(.02) percent	(.01) percent	(.005) percent	(.002) percent	(.001) percent	(.0005) percent	(.0002) percent	(.0001) percent	(.00005) percent	(.00002) percent	(.00001) percent	(.000005) percent	(.000002) percent	(.000001) percent	(.0000005) percent	(.0000002) percent	(.0000001) percent	(.00000005) percent	(.00000002) percent	(.00000001) percent															
6	7	0.3	0.5	1	1000	N	N	N	N	200	300	N	N	N	N	50	300	70	200	N	L	50	50	N	10	N	100	N	300	N	200	300	N	N		
7	7	1.5	1.5	1.5	1000	N	N	N	N	100	300	N	N	N	N	20	300	50	100	N	L	70	20	N	10	N	100	N	200	N	100	200	N	N		
9	10	1.5	1.5	1.5	1000	N	N	N	N	70	200	N	N	N	N	50	700	50	150	N	L	70	20	N	15	N	200	N	500	N	50	300	N	N		
10	10	1	1	1	700	N	N	N	N	50	300	N	N	N	N	50	900	50	150	N	L	20	50	30	N	10	N	150	N	500	N	50	200	N	N	
11	5	2	1	1	500	N	N	N	N	150	300	1	N	N	N	10	150	50	200	L	20	30	30	N	10	N	100	N	200	N	150	N	N	N		
15	5	1	1	1	700	N	N	N	N	100	200	L	N	N	N	20	300	200	150	N	L	20	30	50	N	7	N	150	N	200	N	150	L	G1000		
22	10	1.5	1.5	1.5	1000	N	N	N	N	15	300	N	N	N	N	50	700	100	100	N	L	20	70	50	N	20	N	200	N	300	300	700	700	N	N	
23	3	1.5	3	1	700	N	N	N	N	30	200	L	N	N	N	15	200	15	50	N	L	30	20	20	N	7	N	200	N	150	N	20	1000	N	N	
24	3	1.5	5	1	700	N	N	N	N	100	300	L	N	N	N	50	300	20	50	N	L	30	20	N	7	N	150	N	200	N	30	N	1000	N	N	
25	2	2	1	1	300	N	N	N	N	100	200	L	N	N	N	15	50	10	30	N	L	20	L	N	N	L	N	100	N	100	N	30	N	G1000		
26	1.5	2	1	1	200	N	N	N	N	100	200	1	N	N	N	5	70	30	30	N	L	15	10	N	N	L	N	100	N	50	N	20	N	G1000		
27	1.5	1.5	2	1	150	N	N	N	N	100	200	1	N	N	N	5	30	15	30	N	L	10	L	N	N	L	N	100	N	70	N	20	N	G1000		
28	5	1	1	1	700	N	N	N	N	70	300	L	N	N	N	15	300	15	100	N	L	30	15	N	7	N	200	N	200	N	30	N	G1000	N	N	
29	2	1.5	1	1	200	N	N	N	N	70	200	L	N	N	N	10	70	15	20	N	L	20	10	N	L	N	100	N	100	N	30	N	G1000	N	N	
30	1.5	2	1	1	200	N	N	N	N	100	200	L	N	N	N	7	30	30	50	N	L	20	10	N	5	N	100	N	70	N	30	N	G1000	N	N	
31	5	1	1	1	700	N	N	N	N	100	200	1	N	N	N	20	100	20	70	N	L	20	50	20	N	10	N	200	N	150	N	30	N	700	N	N
32	7	1.5	1.5	1.5	1000	N	N	N	N	150	200	2	N	N	N	50	200	50	90	7	20	100	70	N	15	N	150	N	150	N	50	L	500	N	N	
33	2	2	1	1	200	N	N	N	N	70	100	L	N	N	N	7	30	10	30	5	L	20	15	N	L	N	150	N	70	N	20	N	G1000	N	N	
34	5	1	1	1	700	N	N	N	N	150	150	L	N	N	N	20	200	30	70	N	L	50	20	N	7	15	100	N	200	N	100	N	G1000	N	N	
35	1	1.5	2	1	200	N	N	N	N	50	200	L	N	N	N	7	20	15	50	N	L	15	L	N	L	N	100	N	70	N	20	N	G1000	N	N	
36	2	2	1	1	500	N	N	N	N	70	200	L	N	N	N	15	100	15	50	N	L	20	20	15	N	5	N	100	N	150	N	50	N	G1000	N	N
37	1.5	1.5	2	1	200	N	N	N	N	70	200	L	N	N	N	7	50	15	30	N	L	10	L	N	N	L	N	100	N	100	N	20	N	G1000	N	N
38	2	2	1	1	300	N	N	N	N	100	200	N	N	N	N	15	70	300	100	N	L	20	10	N	5	N	100	N	150	N	30	N	G1000	N	N	
39	2	1	1	1	300	N	N	N	N	50	100	L	N	N	N	10	70	15	50	N	L	20	20	N	5	N	150	N	100	N	30	N	1000	N	N	
40	2	2	1	1	300	N	N	N	N	100	200	L	N	N	N	10	100	20	50	L	L	20	10	N	5	N	100	N	150	N	30	N	G1000	N	N	
41	3	1.5	1.5	1.5	700	N	N	N	N	150	200	1	N	N	N	15	100	20	50	N	L	30	15	N	3	N	200	N	150	N	50	N	G1000	N	N	
42	3	1.5	3	1	500	N	N	N	N	30	200	L	N	N	N	15	70	15	50	N	L	15	10	N	10	N	200	N	150	N	15	N	500	N	N	
82	3	2	5	1	700	N	N	N	N	50	200	1	N	N	N	10	70	30	100	N	L	20	30	N	10	N	200	N	200	N	30	N	700	N	N	
83	1	1.5	1.5	1.5	100	N	N	N	N	100	500	1	N	N	N	7	300	15	100	N	L	20	30	15	N	5	N	300	N	50	N	50	N	G1000	N	N

# MAP SHOWING GEOCHEMICAL ANALYSES OF PANNED STREAM SEDIMENTS, STANSBURY ROADLESS AREAS, TOOELE COUNTY, UTAH

By  
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1982