UNITED STATES DEPARTMENT OF THE INTERIOR

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ANALYSES OF SUBSURFACE PERMIAN ROCK SAMPLES FROM THE CENTRAL OKLAHOMA AQUIFER

By

E.L. Mosier,[1] P.H. Briggs,[1] J.G. Crock,[1] K.R. Kennedy[1]
D.M. McKown,[1] R.B. Vaughn,[1] and E.P. Welsch[1]

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[1]U.S. Geological Survey, Box 25046, MS 973, Federal Center, Denver, CO 80225-0046

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ABSTRACT

The geochemical analyses of subsurface Permian rocks from eight cored test wells in the Central Oklahoma aquifer have been completed by the U.S. Geological Survey. This study is part of the National Water-Quality Assessment (NAWQA) Program which is intended to identify and explain major factors affecting water quality. The Central Oklahoma aquifer underlies approximately 3000 square miles of central Oklahoma and is the major source of ground water for municipal, industrial, commercial and domestic usage. Future development of the aquifer may be limited because concentrations of arsenic, chromium, selenium, and residual gross-alpha activity locally exceed government drinking water standards. In addition, high concentrations of uranium are also locally present. Detailed studies of water chemistry and hydrology coupled with the results of geochemical analyses of solid constituents of the aquifer will be used to understand rock-water interaction within the aquifer.

The principal lithologies of the Permian rocks in the aquifer are mainly interbedded "red bed" sandstones, mudstones, and siltstones. Nine test holes were cored through these rocks at different locations: one in an area of good water quality and eight in areas with known contamination of one or more of the above elements. Samples were collected from eight of the test holes to represent lithological variations within each core. The samples were analyzed by inductively coupled plasma-atomic emission spectroscopy to determine the concentrations of 40 elements; arsenic and selenium abundances were determined by hydride generation-atomic absorption spectroscopy, and uranium and thorium concentrations were measured by delayed neutron activation analysis. Chemical analyses of 549 subsurface rock samples collected from the core show average concentrations of 7.3 parts per million (ppm) arsenic, 56 ppm chromium, 1.4 ppm selenium (for the 346 samples with reported values above the 0.1 ppm detection level), and 3.64 ppm uranium. Abundances as great as 62 ppm arsenic, 170 ppm chromium, 110 ppm selenium, and 123 ppm uranium were detected locally in the rocks.

INTRODUCTION

Solid-phase geochemical studies of the Central Oklahoma aquifer are a part of the National Water Quality Assessment (NAWQA) Program of the U.S Geological Survey. As outlined by Hirsch and others, 1988, the long term goals of the NAWQA Program are:

(1) Provide a nationally consistent description of current water-quality conditions for a large part of the Nation's surface- and ground-water resources;

(2) Define long-term trends (or lack of trends) in water quality; and,

(3) Identify, describe, and explain, as possible, the major factors that affect the observed water-quality conditions and trends.

The Central Oklahoma aquifer study is one of three pilot ground-water projects of the NAWQA Program. The aquifer, located in central Oklahoma (fig 1), underlies about 3000 square miles and is used extensively for municipal, industrial, commercial and domestic water supplies. The aquifer was selected as a NAWQA pilot study because of its extensive use and known water-quality problems. At various localities in the aquifer, ground-water concentrations of potentially toxic naturally occurring trace substances (NOTS) such as arsenic (As), chromium (Cr), selenium (Se), and residual-alpha radioactivity exceed the primary drinking-water standards of the Environmental Protection

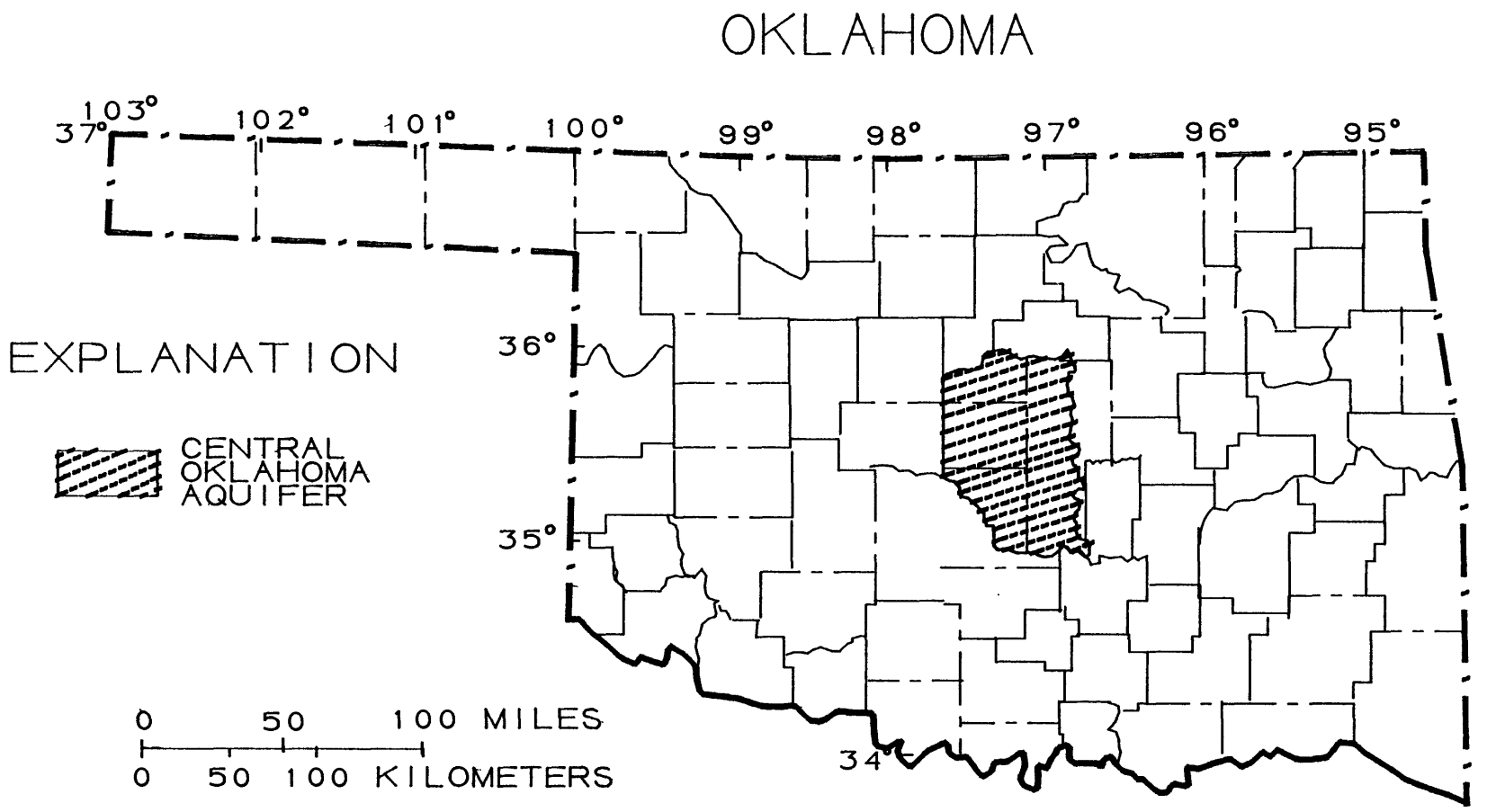

Figure 1. Location of the Central Oklahoma aquifer.

Agency (U.S. Environmental Protection Agency, 1986). In addition, high concentrations of uranium (U) have been detected in water from some wells. A drinking-water standard for U has not yet been established by the U.S. Environmental Protection Agency. An assessment of the ground-water quality within the Central Oklahoma aquifer through 1987 is presented by Parkhurst and others, 1989. Mosier and Bullock (1988) provide a review of the general geology and previously conducted geochemical studies in the vicinity of the Central Oklahoma aquifer.

To evaluate the sources of and processes responsible for mobilization of the NOTS materials, a cooperative effort between the U.S. Geological Survey's Water Resource Division and Geologic Division was initiated. The study of the NOTS in the western part of the study area was made in cooperation with the Association of Central Oklahoma Governments. Nine wells were drilled at various locations in the aquifer for the purpose of studying the natural rock-water interaction and to facilitate the NOTS study. Detailed studies of the water and associated rocks are in progress. Two additional data reports containing (1) the geophysical logs from the bore holes, lithologic description of the drill cores, and the chemical composition of the water samples collected from the test wells and (2) descriptions of the mineralogy and petrography of the cores are in preparation. The purpose of this report is to release analytical data for 549 rock samples collected from eight of the cores.

LOCATION AND GEOLOGIC SETTING

The Central Oklahoma aquifer underlies all or parts of Cleveland, Lincoln, Logan, Oklahoma, Payne, and Pottawatomie Counties (fig. 2). It extends north-south from the Cimarron River to the Canadian River and west-east from approximately the eastern Canadian/Kingfisher County lines to the eastern limit of the outcrop of the Chase, Council Grove, and Admire Groups (meandering line on the right side of fig. 2).

Permian sedimentary rocks that are known generally as the red beds and unconsolidated terrace deposits, alluvium, and sand dunes of Quaternary age are the principal geologic units of the aquifer (fig. 3). Most usable ground-water within the aquifer is in the Permian Wellington Formation and the Permian Garber Sandstone (Wood and Burton, 1968). However, substantial quantities of usable water also are present in the underlying Permian Admire, Council Grove, and Chase Groups, and in Quaternary alluvium and terrace deposits associated with the major streams in the study area (fig. 3). The Permian aged part of the aquifer is confined by shales (mudstone) and siltstones of the Permian Hennessey Group in the western portion of the aquifer (fig. 3). A summary description of the geologic formations follows:

Alluvium, terrace deposits, and sand (Quaternary)

Sand, silt, clay, and gravel of fluvial and eolian origin. Thickness ranges from a few meters to about 30 m.

Hennessey Group (Permian)

Reddish-brown blocky shale with some interbedded orange-brown to greenish-gray siltstone and reddish-brown fine-grained sandstone. Grades into Garber sandstone. Thickness ranges from 40 m to nearly 200 m.

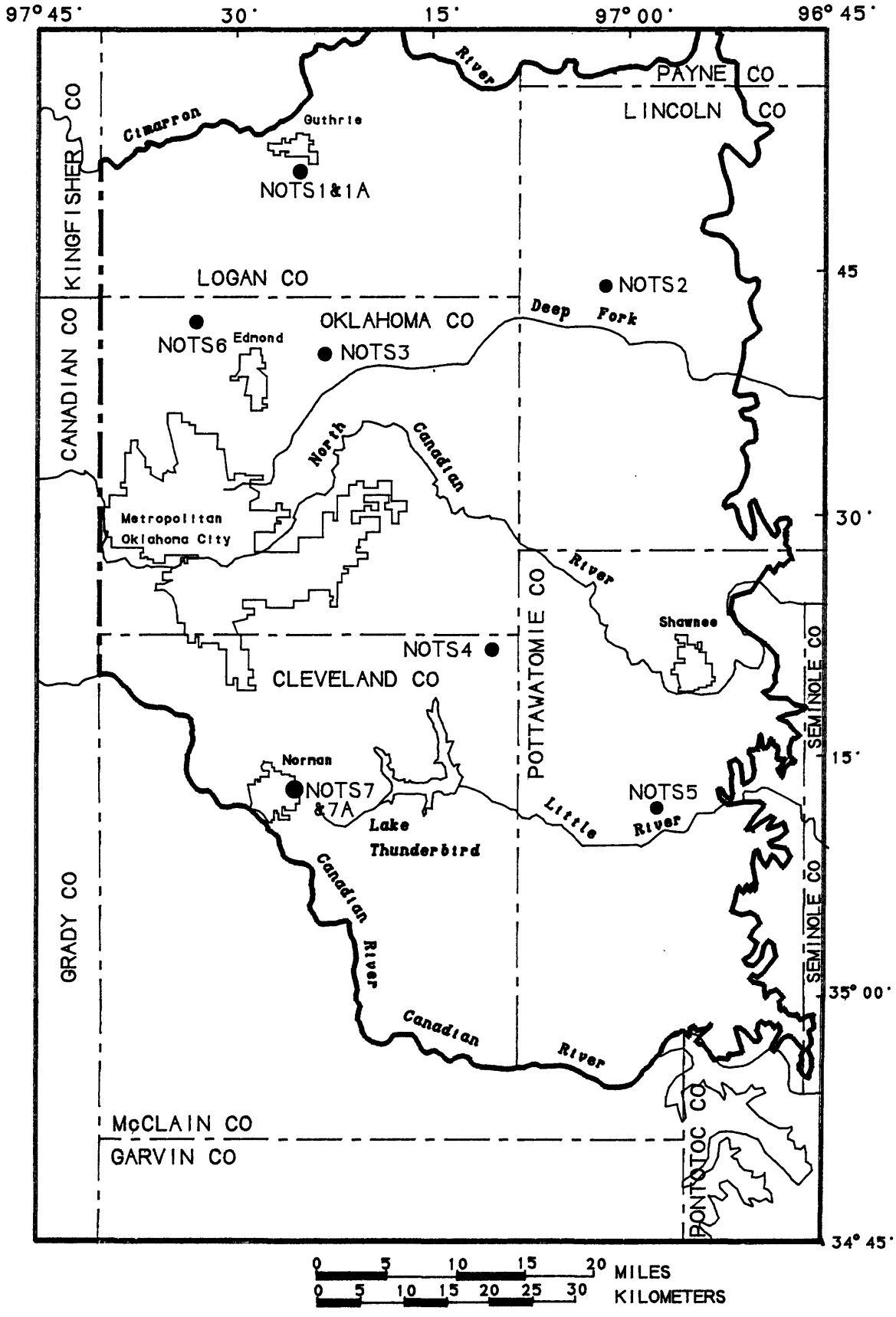

Figure 2. Geographic features of study area and drill hole locations for Naturally Occurring Trace Substances (NOTS) study.

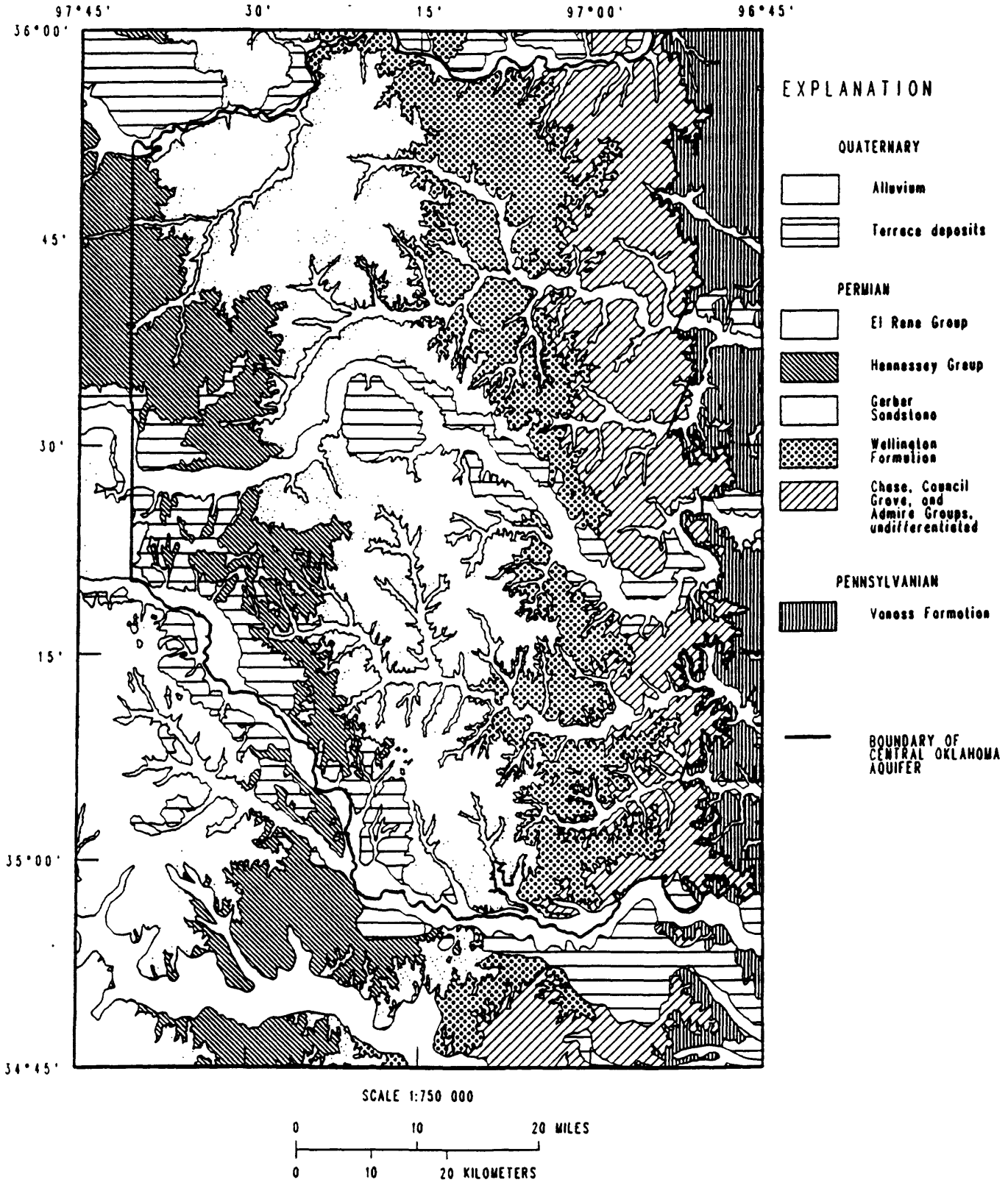

Figure 3.—Geologic map of central Oklahoma (modified from Bingham and Moore, 1975, and Hart, 1974).

Garber Sandstone (Permian)

Mostly orange-brown to red-brown fine-grained sandstone, irregularly bedded with red-brown shale and mudstone conglomerate. Thickness ranges from 50 m to 120 m.

Wellington Formation (Permian)

Red-brown shale and orange-brown fine-grained sandstone, containing much maroon mudstone conglomerate to the south. Thickness ranges from about 50 m to 150 m.

Chase, Council Grove, and Admire Groups (Permian)

Red-brown to gray shale and orange-brown fine-grained, crossbedded sandstone; grades southward into arkosic sand and conglomerate. Thickness ranges from 90 m to 180 m.

Nine test wells were cored through these geologic formations at various locations in the aquifer (fig. 2). Table 1 gives the geodetic coordinates, depth of hole, and geologic unit sampled. One of the test wells, NOTS 1, was not sampled due to hole instability. Another test well, NOTS 1A, drilled at the same location was sampled. The NOTS 4 well is located in an area with generally good water quality; the remaining seven holes are located in areas known to produce water with high concentrations of one or more of the potentially toxic metals. NOTS 7 and NOTS 7A were drilled at the same location.

SAMPLE PREPARATION

The core material collected from eight of the cores was split and sampled based on lithologic variations, e.g. sandstone, mudstone, siltstone, and conglomerate, and on visible diagenetic variations such as color, reduction spots, degree of carbonate cement, iron enrichment, etc. Each sample is a composite of the core interval sampled and samples in each drill hole are contiguous. The remaining half of the core was reserved for detailed description of lithology and sedimentology. Rock samples were crushed and then pulverized to minus 0.15 mm with ceramic plates.

ANALYTICAL PROCEDURES

The samples were analyzed by an inductively coupled plasma-atomic emission spectrometric (ICP-AES) technique for 40 elements (Lichte and others, 1987). The elements determined and the limits of detection are presented in table 2. Arsenic was determined by hydride generation-atomic absorption spectroscopy (HG-AAS) (Crock and Lichte, 1982). Selenium was also determined by HG-AAS (Briggs and Crock, 1986, and Sanzolone and Chao, 1987). The limit of detection for both As and Se is 0.1 ppm. Uranium and thorium were measured using delayed neutron activation analysis (DNAA) which has limits of detection of 0.1 ppm for U and 1 ppm for Th. (McKown and Millard, 1987). All analyses were performed at the U.S. Geological Survey laboratories in Lakewood, Colorado, by Paul H. Briggs--ICP-AES, James G. Crock, Kay R. Kennedy, and Eric P. Welsch--HG-AAS, and Dave M. McKown and Robert B. Vaughn--DNAA.

DESCRIPTION OF DATA TABLES

Tables 3-9 list the analyses for the drill core samples. The data are arranged so that column 1 contains the assigned sample number. Column 2 gives the depth interval sampled in feet. Because of a special feature such as a reduction spot or distinct color variation, a subjectively selected sample was occasionally collected. These samples are shown at a single depth or at an interval of 0.1-0.3 feet. Column 3 shows a simplified description of the lithology. The remaining columns give analytical values. Columns marked ICP are induction coupled plasma-atomic emission spectrometric analyses, HGAA indicates hydride generation-atomic absorption spectroscopic analyses, and DNAA refers to delayed neutron activation analyses. The first eight ICP columns (Al, Ca, Fe, K, Mg, Na, P, and Ti) report values in percent. All other values are reported in part per million (ppm). If no value is shown for an element, the element was not detected at the lower limit of detection given for that element. The precision of the ICP-AES technique permits the use of two significant figures. Because of the formatting used in the computer program that produced tables 3-9, some values listed in the columns for elements reported as percent carry a nonsignificant digit to the right of the significant digits.

The ICP-AES determinations for Ag, Au, Bi, Cd, Ho, Mo, Sn, Ta, and U were all below the lower limits of detection shown in table 1; consequently, the columns for these elements have been deleted from the tables. The exception is NOTS7-30 which had a reported ICP-AES U value of 100 ppm.

A brief statistical summary for each drill hole is presented at the end of tables 3-9, a statistical summary for all 549 samples analyzed is given in table 10, and a statistical summary by lithology (sandstone, siltstone, mudstone, mixed lithologies, conglomerate, and claystone) is shown in table 11. The mixed lithology group represents location in the core where interbedding of lithologies was at too small of a scale to sample separately. Sample NOTS6-110 is a mixture of mudstone and dolostone nodules and was not included in the statistics of any of the lithologies. The Count row or column shows the number of reported values for each element. The statistical values for Maximum, Minimum, Average, Standard Deviation, and Variance are based only on the reported values. The Median value is based on the total population of each element.

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Table 1. Location of test wells cored for the Central Oklahoma aquifer study

(* - 7A was drilled next to 7)

Test Well	Latitude	Longitude	Total Depth (ft)	Unit(s) Sampled
1A	35°51'18"	97°25'00"	268	Garber-Wellington
2	35°44'18"	97°01'35"	277	Chase, Council Grove, and Admire
3	35°40'12"	97°23'10"	195	Garber-Wellington
4	35°21'42"	97°10'35"	291	Garber-Wellington
5	35°11'42"	96°58'01"	238	Chase, Council Grove, and Admire
6	35°42'08"	97°33'02"	587	Garber-Wellington
7	35°13'15"	97°25'43"	187 sampled 456 cored	Hennessey Group
7A*	35°13'15"	97°25'42"	631	Garber-Wellington

Table 2. Lower limit of detection for ICP-AES analyses
(in micrograms per gram, unless otherwise indicated)

Element (percent)	Limit	Element	Limit	Element	Limit
Al	0.005	Ag	2	Mn	10
Ca	0.005	As	10	Mo	2
Fe	0.005	Au	8	Nb	4
K	0.05	Ba	1	Nd	4
Mg	0.005	Be	1	Ni	2
Na	0.005	Bi	10	Pb	4
P	0.005	Cd	2	Sc	2
Ti	0.005	Ce	4	Sn	10
		Co	1	Sr	2
		Cr	1	Ta	40
		Cu	1	Th	4
		Eu	2	U	100
		Ga	4	V	2
		Ho	4	Y	2
		La	2	Yb	1
		Li	2	Zn	2

Table 3: Analytical results for drill core NOTS 1A. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS1A-1	15.0-20.0	sandstone	1.80	9.10	4.40	0.36	5.00	0.14	0.030	0.06	4100
NOTS1A-2	20.0-20.5	sandstone	5.50	1.60	1.50	1.30	1.40	0.40	0.030	0.24	660
NOTS1A-3	20.5-21.0	conglomerate	8.00	2.00	5.30	1.70	2.40	0.38	0.050	0.33	880
NOTS1A-4	21.0-27.0	mudstone	8.20	0.76	4.20	1.90	1.40	0.38	0.040	0.35	300
NOTS1A-5	27.0-31.0	sandstone	7.30	0.50	3.70	1.60	0.96	0.44	0.030	0.33	250
NOTS1A-6	31.0-37.4	sandstone	4.90	1.30	2.30	1.10	1.20	0.36	0.020	0.22	620
NOTS1A-7	33.4	sandstone	5.60	0.41	0.99	1.20	0.77	0.41	0.020	0.26	120
NOTS1A-8	37.4-39.8	sandstone	4.20	5.00	2.80	0.81	3.10	0.37	0.020	0.20	2200
NOTS1A-9	39.8-43.0	sandstone	4.60	1.20	2.20	0.87	1.10	0.41	0.020	0.22	520
NOTS1A-10	43.0-45.7	sandstone	3.70	0.82	2.30	0.65	0.52	0.31	0.020	0.20	170
NOTS1A-11	45.7-50.2	sandstone	3.80	0.79	1.70	0.69	0.76	0.36	0.020	0.19	290
NOTS1A-12	50.2-50.6	sandstone	1.50	0.40	0.22	0.24	0.14	0.18	0.006	0.08	28
NOTS1A-13	50.6-52.1	sandstone	5.80	0.45	3.20	1.10	0.98	0.45	0.030	0.27	190
NOTS1A-14	52.1-54.5	sandstone	6.40	1.30	3.00	1.30	1.50	0.46	0.030	0.28	620
NOTS1A-15	54.5-56.2	sandstone	3.30	7.10	2.70	0.63	4.20	0.33	0.020	0.15	3000
NOTS1A-16	56.2-60.2	sandstone	4.60	1.60	2.70	0.86	0.68	0.46	0.030	0.23	300
NOTS1A-17	59.8	sandstone	1.60	0.08	2.90	0.25	0.14	0.26	0.020	0.09	210
NOTS1A-18	60.2-70.4	sandstone	1.20	0.60	0.47	0.18	0.22	0.18	0.006	0.07	110
NOTS1A-19	62.3	sandstone	0.61	0.25	6.30	0.09	0.07	0.12	0.050	0.05	600
NOTS1A-20	70.4-71.1	conglomerate	2.00	7.20	3.50	0.35	4.10	0.20	0.020	0.10	3100
NOTS1A-21	71.1-76.1	sandstone	4.20	0.18	2.20	0.70	0.43	0.37	0.020	0.22	120
NOTS1A-22	76.1-76.5	conglomerate	2.60	3.40	0.54	0.41	1.70	0.16	0.010	0.10	1100
NOTS1A-23	76.5-82.6	mudstone	8.40	2.90	5.00	1.60	2.80	0.31	0.040	0.33	1300
NOTS1A-24	82.6-83.6	sandstone	4.40	3.60	3.00	0.84	2.30	0.41	0.010	0.19	1500
NOTS1A-25	83.6-84.6	sandstone	3.90	0.91	2.60	0.73	0.62	0.43	0.040	0.16	320
NOTS1A-26	84.6-87.0	mudstone	8.00	0.44	3.60	1.70	0.95	0.42	0.040	0.32	210
NOTS1A-27	87.0-89.8	sandstone	4.90	1.10	2.90	1.00	0.87	0.52	0.020	0.23	410
NOTS1A-28	89.8-93.2	sandstone	5.10	0.38	1.90	1.00	0.58	0.56	0.020	0.26	140
NOTS1A-29	93.2-98.0	mudstone	8.60	0.71	4.70	1.80	1.00	0.38	0.140	0.35	280
NOTS1A-30	98.0-100.6	mudst. & siltst.	10.00	1.60	4.30	2.00	1.70	0.32	0.050	0.45	540
NOTS1A-31	100.6-102.1	siltstone	6.50	0.92	3.10	1.40	0.98	0.59	0.040	0.31	360
NOTS1A-32	104.0-105.1	sandstone	6.10	0.62	4.90	1.10	0.73	0.43	0.080	0.28	170
NOTS1A-33	105.1-111.8	sandstone	1.80	1.50	0.83	0.28	0.49	0.21	0.010	0.10	300
NOTS1A-34	111.8-113.0	conglomerate	1.80	10.00	0.46	0.27	5.90	0.14	0.010	0.07	4100
NOTS1A-35	113.0-116.2	mudstone	8.50	2.50	4.10	1.90	2.30	0.41	0.030	0.41	920
NOTS1A-36	116.2-117.2	mudstone	8.80	0.53	3.60	1.90	1.40	0.45	0.030	0.40	220
NOTS1A-37	117.2-119.0	sandstone	5.50	0.46	3.60	1.20	2.90	0.51	0.020	0.27	1700
NOTS1A-38	119.0-120.0	mudstone	7.80	0.58	3.60	1.40	1.50	0.61	0.030	0.39	280
NOTS1A-39	120.0-128.0	mudst. & sandst.	5.90	2.60	3.10	1.30	1.90	0.55	0.020	0.28	1000
NOTS1A-40	128.0-133.0	mudstone	8.90	0.89	4.50	1.70	1.80	0.54	0.030	0.37	390
NOTS1A-41	133.0-138.0	mudstone	8.70	1.40	4.40	1.50	2.00	0.56	0.030	0.38	490
NOTS1A-42	138.0-143.0	mudstone	9.90	0.64	4.40	1.70	1.40	0.44	0.020	0.38	190
NOTS1A-43	143.0-148.0	mudstone	7.80	2.60	4.90	1.40	3.30	0.60	0.040	0.33	1000
NOTS1A-44	148.0-151.1	mudst. & siltst.	8.20	1.80	4.40	1.50	2.40	0.52	0.030	0.34	750
NOTS1A-45	134	mudstone	8.90	1.20	5.70	1.20	2.30	0.63	0.030	0.36	490
NOTS1A-46	151.1-151.6	sandstone	4.60	6.60	4.20	0.95	4.00	0.39	0.010	0.17	2800
NOTS1A-47	151.6-154.0	sandstone	7.10	1.00	3.60	1.50	1.20	0.51	0.020	0.32	470
NOTS1A-48	154.0-155.5	mudstone	8.00	0.60	12.00	1.70	1.00	0.40	0.050	0.33	530

Table 3 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS1A-49	155.5-157.2	mudst. & siltst.	8.00	0.17	4.00	1.60	0.79	0.50	0.020	0.33	110
NOTS1A-50	157.2-158.8	sandstone	3.40	0.11	4.80	0.52	0.26	0.42	0.010	0.18	58
NOTS1A-51	158.8-163.2	sandstone	1.90	1.90	0.91	0.29	0.18	0.23	0.008	0.12	140
NOTS1A-52	163.2-174.8	sandstone	1.80	0.06	0.66	0.27	0.17	0.20	0.008	0.09	25
NOTS1A-53	174.8-179.0	sandstone	2.20	0.17	2.00	0.36	0.23	0.20	0.020	0.12	120
NOTS1A-54	179.0-183.9	sandstone	1.80	0.38	1.10	0.28	0.20	0.20	0.010	0.10	90
NOTS1A-55	183.9-184.0	conglomerate	4.70	0.32	14.00	0.70	0.56	0.34	0.080	0.24	530
NOTS1A-56	184.0-185.0	sandstone	5.00	0.14	2.90	0.60	0.57	0.34	0.020	0.23	130
NOTS1A-57	185.0-185.3	sandstone	4.30	0.12	3.60	0.55	0.47	0.33	0.020	0.22	150
NOTS1A-58	185.3-189.9	conglomerate	1.90	0.59	1.10	0.24	0.20	0.17	0.010	0.13	110
NOTS1A-59	189.9-191.8	conglomerate	2.20	9.30	3.50	0.32	5.30	0.20	0.020	0.11	3900
NOTS1A-60	191.8-195.6	sandstone	5.90	1.00	3.00	1.10	1.00	0.57	0.030	0.30	470
NOTS1A-61	195.6-196.1	conglomerate	3.50	11.00	7.40	0.73	6.90	0.27	0.060	0.14	5000
NOTS1A-62	196.1-202.1	sandstone	6.00	0.15	2.70	1.20	0.67	0.45	0.020	0.30	140
NOTS1A-63	202.1-203.4	conglomerate	6.40	0.34	4.60	1.30	0.76	0.43	0.040	0.28	180
NOTS1A-64	203.4-207.5	mudstone	9.40	0.32	4.70	2.20	1.40	0.51	0.030	0.41	270
NOTS1A-65	207.5-213.3	sandstone	2.20	2.70	2.70	0.36	1.70	0.31	0.020	0.12	1300
NOTS1A-66	213.3-217.0	sandstone	2.20	1.60	0.79	0.32	1.00	0.33	0.010	0.13	670
NOTS1A-67	217.0-220.0	sandstone	1.70	1.00	0.72	0.26	0.63	0.22	0.030	0.11	420
NOTS1A-68	220.0-220.3	sandstone	0.60	7.00	5.00	0.11	4.10	0.11	0.020	0.05	3400
NOTS1A-69	220.3-225.0	sandstone	1.40	0.22	0.58	0.23	0.12	0.18	0.050	0.10	36
NOTS1A-70	225.0-229.0	sandstone	4.60	0.18	3.10	0.81	0.39	0.46	0.060	0.23	140
NOTS1A-71	229.0-234.5	sandstone	2.20	0.16	1.50	0.34	0.18	0.30	0.010	0.13	69
NOTS1A-72	233.1-233.3	conglomerate	2.50	4.30	14.00	0.47	2.60	0.28	0.100	0.16	2400
NOTS1A-73	234.5-239.0	sandstone	3.60	1.40	3.00	0.59	1.10	0.42	0.020	0.19	790
NOTS1A-74	239.0-242.8	sandstone	1.40	0.27	0.46	0.21	0.15	0.24	0.008	0.11	68
NOTS1A-75	242.8-244.1	sandstone	0.76	4.70	2.20	0.11	2.60	0.16	0.009	0.06	2200
NOTS1A-76	244.1-246.0	sandstone	2.50	0.77	1.80	0.40	0.59	0.27	0.020	0.14	370
NOTS1A-77	246.0-246.2	sandstone	1.60	6.30	5.90	0.26	3.80	0.17	0.040	0.09	3200
NOTS1A-78	246.2-249.4	sandstone	2.70	1.40	4.00	0.42	0.96	0.29	0.030	0.14	790
NOTS1A-79	249.4-249.6	conglomerate	2.90	8.70	5.70	0.45	5.80	0.26	0.020	0.11	4300
NOTS1A-80	249.6-255.1	sandstone	3.00	2.40	1.30	0.46	1.50	0.36	0.010	0.16	1000
NOTS1A-81	255.1-259.2	mudstone	8.00	2.30	2.90	1.60	1.90	0.50	0.030	0.37	980
NOTS1A-82	259.2-268.0	sandstone	4.20	0.94	1.90	0.70	0.78	0.46	0.020	0.21	430
	Count		82	82	82	82	82	82	82	82	82
	Maximum		10	11	14	2.2	6.9	0.63	0.14	0.45	5000
	Minimum		0.60	0.06	0.22	0.09	0.07	0.11	0.01	0.05	25
	Average		4.71	2.03	3.43	0.89	1.59	0.36	0.03	0.22	907
	Median		4.50	0.97	3.05	0.77	1.00	0.38	0.020	0.22	425
	Std. Deviation		2.65	2.60	2.50	0.57	1.50	0.13	0.021	0.11	1176
	Variance		7.04	6.79	6.26	0.33	2.26	0.018	0.00045	0.011	1382998

Table 3 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS1A-1	15.0-20.0	10	96	1	44	14	22	6		7	26	17		35
NOTS1A-2	20.0-20.5		220	2	71	18	64	20		13	44	48		39
NOTS1A-3	20.5-21.0	10	260	3	70	29	88	14		20	43	81	7	40
NOTS1A-4	21.0-27.0		290	3	77	23	93	29		20	41	76	9	37
NOTS1A-5	27.0-31.0		330	3	80	17	84	25		17	40	66	10	35
NOTS1A-6	31.0-37.4		190	2	62	16	64	15		12	31	44		27
NOTS1A-7	33.4		220	2	64	16	69	8		13	33	49	6	29
NOTS1A-8	37.4-39.8		690	1	78	15	51	11		11	37	38		39
NOTS1A-9	39.8-43.0		160	1	64	12	54	8		10	31	42		26
NOTS1A-10	43.0-45.7	10	150	1	63	12	43	7		8	29	33		28
NOTS1A-11	45.7-50.2		140	1	60	11	51	7		9	28	35		26
NOTS1A-12	50.2-50.6		310		29	5	18	5			14	15		14
NOTS1A-13	50.6-52.1		200	2	65	18	76	11		14	34	54	6	31
NOTS1A-14	52.1-54.5		230	2	70	18	77	21		15	37	61	7	33
NOTS1A-15	54.5-56.2	20	520	1	55	18	38	7	2	9	29	31		34
NOTS1A-16	56.2-60.2	10	170	2	64	15	56	9		11	35	44	4	31
NOTS1A-17	59.8	20	70		36	15	19	8		5	17	15		18
NOTS1A-18	60.2-70.4		100		31	8	16	3			16	12		15
NOTS1A-19	62.3	30	48		16	20	10	14			8	6		13
NOTS1A-20	70.4-71.1	20	160	1	54	17	31	6	2	6	27	19		35
NOTS1A-21	71.1-76.1		150	1	62	14	53	7		10	33	41	4	28
NOTS1A-22	76.1-76.5		110		37	10	27	6		6	21	25		21
NOTS1A-23	76.5-82.6	10	390	3	74	28	87	31		20	41	92	10	37
NOTS1A-24	82.6-83.6		200	1	60	13	58	8		11	31	40		32
NOTS1A-25	83.6-84.6	10	170	1	51	17	51	10		9	25	33		26
NOTS1A-26	84.6-87.0		380	3	110	15	98	16		19	44	76	8	38
NOTS1A-27	87.0-89.8		240	2	67	11	58	10		11	34	48	5	31
NOTS1A-28	89.8-93.2		240	1	73	11	59	8		11	36	49	6	32
NOTS1A-29	93.2-98.0	10	420	3	94	20	85	22	3	20	48	96	11	50
NOTS1A-30	98.0-100.6		440	3	95	27	100	19	2	24	52	130	14	44
NOTS1A-31	100.6-102.1	10	310	2	95	16	85	7		15	54	73	6	46
NOTS1A-32	104.0-105.1	20	290	2	100	19	87	8	2	14	63	62	5	49
NOTS1A-33	105.1-111.8		77		45	8	24	4		5	24	18		21
NOTS1A-34	111.8-113.0		96		47	11	32	5	2	7	34	20		44
NOTS1A-35	113.0-116.2	10	340	3	91	18	86	17		21	50	82	17	41
NOTS1A-36	116.2-117.2	10	330	3	89	19	90	18		22	49	89	11	40
NOTS1A-37	117.2-119.0	10	380	2	82	13	68	10		14	45	53		43
NOTS1A-38	119.0-120.0	10	270	3	72	21	89	21		20	37	76	8	31
NOTS1A-39	120.0-128.0	10	280	2	76	13	72	11		15	42	54		37
NOTS1A-40	128.0-133.0	10	300	3	88	22	92	19		21	49	90	13	42
NOTS1A-41	133.0-138.0	10	280	3	75	19	86	20		22	42	77	10	36
NOTS1A-42	138.0-143.0	10	300	3	83	16	94	13		23	50	87	12	39
NOTS1A-43	143.0-148.0	10	300	3	72	28	76	25		19	42	93	7	38
NOTS1A-44	148.0-151.1		360	3	78	23	80	23		20	41	41	8	37
NOTS1A-45	134	10	230	3	82	23	91	33		22	44	44	9	42
NOTS1A-46	151.1-151.6	10	210	2	55	12	56	8		13	31	31		33
NOTS1A-47	151.6-154.0	20	320	2	84	13	92	11		17	49	67	6	38
NOTS1A-48	154.0-155.5	20	450	3	110	22	87	20		20	49	81	10	44

Table 3 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS1A-49	155.5-157.2	10	320	3	96	15	85	12		20	52	75	7	45
NOTS1A-50	157.2-158.8		120		54	9	60	5		7	27	29		24
NOTS1A-51	158.8-163.2		140		35	7	28	4		5	19	17		17
NOTS1A-52	163.2-174.8		130		34	7	25	2			17	18		15
NOTS1A-53	174.8-179.0		220		57	10	31	5		6	29	22		27
NOTS1A-54	179.0-183.9		96		38	11	23	5		5	22	18		18
NOTS1A-55	183.9-184.0	30	450	3	140	25	71	9	4	12	83	44	5	97
NOTS1A-56	184.0-185.0	10	190	2	72	16	68	6		12	42	47		35
NOTS1A-57	185.0-185.3	10	190	1	70	17	61	6		10	40	42		33
NOTS1A-58	185.3-189.9		77		49	8	26	3		4	26	19		22
NOTS1A-59	189.9-191.8	10	120	1	68	14	29	6	2	12	39	20		49
NOTS1A-60	191.8-195.6	10	240	2	87	15	75	12		14	49	52	4	40
NOTS1A-61	195.6-196.1	20	220	2	67	19	42	4	3	13	37	32	4	49
NOTS1A-62	196.1-202.1		250	2	78	15	74	13		14	41	57	6	35
NOTS1A-63	202.1-203.4	20	270	3	100	25	85	8	2	15	49	62	6	53
NOTS1A-64	203.4-207.5	10	430	4	100	26	99	27		23	44	80	16	37
NOTS1A-65	207.5-213.3		220		37	10	29	5		6	21	17		19
NOTS1A-66	213.3-217.0		140		40	5	29	3		4	21	17		18
NOTS1A-67	217.0-220.0		170		43	6	26	3			20	16		18
NOTS1A-68	220.0-220.3		120		18	16	48	5		4	11	6		13
NOTS1A-69	220.3-225.0		250		37	8	22	3			17	14		18
NOTS1A-70	225.0-229.0	10	250	2	81	15	70	5		11	40	43		38
NOTS1A-71	229.0-234.5		230		44	8	27	5		5	22	18		19
NOTS1A-72	233.1-233.3	20	390	3	73	26	49	9	3	10	39	22		45
NOTS1A-73	234.5-239.0	10	300	1	55	13	51	6		9	29	29		23
NOTS1A-74	239.0-242.8		180		30	6	20	7			16	12		15
NOTS1A-75	242.8-244.1		140		22	7	14	5			14	7		12
NOTS1A-76	244.1-246.0		370	1	50	12	35	4		6	25	22		23
NOTS1A-77	246.0-246.2	20	150	2	37	15	31	6		7	21	14		25
NOTS1A-78	246.2-249.4	10	1300	1	54	16	36	6		7	28	24		28
NOTS1A-79	249.4-249.6	20	2300	2	51	22	43	8	2	12	27	27		30
NOTS1A-80	249.6-255.1		140		56	11	41	4		7	31	27		27
NOTS1A-81	255.1-259.2	20	390	2	92	16	87	17		19	52	71	15	39
NOTS1A-82	259.2-268.0		190	1	63	10	51	5		10	34	35		29
	Count	42	82	60	82	82	82	82	12	74	82	82	35	82
	Maximum	30	2300	4	140	29	100	33	4	24	83	130	17	97
	Minimum	10	48	1	16	5	10	2	2	4	8	6	4	12
	Average	14	282	2.1	65	15	57	11	2	13	35	44	8	32
	Median	10	230	2	64.5	15	57	8	<2	11	34	41	<4	33
	Std. Deviation	5.8	279	0.84	23	5.8	26	7.3	0.67	5.8	13	27	3.5	13
	Variance	34	77876	0.70	546	34	679	53	0.45	33	167	720	12.5	156

Table 3 Continued.

Sample	Depth Interavl	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS1A-1	15.0-20.0	12	34	5	150	4	96	31	2	20	10.0	0.8	4.89	1.81
NOTS1A-2	20.0-20.5	30	44	8	190	9	84	21	2	40	6.4	0.4	11.10	2.84
NOTS1A-3	20.5-21.0	58	28	14	190	13	120	25	3	77	14.0	0.5	13.60	3.67
NOTS1A-4	21.0-27.0	52		15	170	14	82	20	3	71	6.1	0.2	15.30	3.11
NOTS1A-5	27.0-31.0	41	16	13	150	12	79	19	3	74	7.0	0.2	12.60	3.49
NOTS1A-6	31.0-37.4	29	10	9	120	9	55	15	2	40	5.4	0.2	9.19	2.61
NOTS1A-7	33.4	33	15	9	120	11	130	15	2	43	3.2	0.2	13.20	3.25
NOTS1A-8	37.4-39.8	21	11	8	140	11	56	24	3	34	9.5	0.3	12.30	3.20
NOTS1A-9	39.8-43.0	26		8	110	9	44	15	2	36	11.0		11.20	2.81
NOTS1A-10	43.0-45.7	22		6	99	9	41	13	2	28	12.0	0.2	8.86	2.37
NOTS1A-11	45.7-50.2	24		6	99	9	33	14	2	29	4.1		9.49	2.55
NOTS1A-12	50.2-50.6	7			42	6	29	6		10	1.0	0.1	4.90	2.28
NOTS1A-13	50.6-52.1	38	8	10	120	12	63	16	2	49	6.8	0.2	9.54	3.35
NOTS1A-14	52.1-54.5	38	12	11	150	11	61	18	2	55	7.0	0.2	12.70	3.30
NOTS1A-15	54.5-56.2	22	14	7	130	8	67	31	3	33	15.0	0.5	8.88	2.41
NOTS1A-16	56.2-60.2	26	7	8	140	10	64	18	2	40	11.0	0.3	10.80	2.81
NOTS1A-17	59.8	13	5	2	53	5	47	7	1	31	17.0	0.3	4.80	1.91
NOTS1A-18	60.2-70.4	6			49	4	12	6		12	2.3	0.1	3.70	1.16
NOTS1A-19	62.3	14	16		30		89	8		72	30.0	0.6	3.10	1.92
NOTS1A-20	70.4-71.1	11	33	8	110	7	100	31	3	12	18.0	0.7	6.66	2.98
NOTS1A-21	71.1-76.1	24		7	110	10	55	16	2	36	8.8	0.2	12.40	4.33
NOTS1A-22	76.1-76.5	14	7	7	86	6	28	14	1	15	2.2	0.1	4.98	1.67
NOTS1A-23	76.5-82.6	51	6	15	210	13	88	24	3	75	8.4	0.2	13.20	4.09
NOTS1A-24	82.6-83.6	21	12	8	130	9	81	23	2	33	7.4	0.1	10.50	3.28
NOTS1A-25	83.6-84.6	21	8	7	110	7	70	17	2	36	9.9	0.3	9.25	3.35
NOTS1A-26	84.6-87.0	42	8	14	200	14	90	19	3	63	4.4	0.2	13.80	4.03
NOTS1A-27	87.0-89.8	25	18	11	140	10	88	16	2	35	3.8	0.4	9.46	3.42
NOTS1A-28	89.8-93.2	27	10	10	150	10	72	17	2	40	3.0	0.2	12.80	3.43
NOTS1A-29	93.2-98.0	46	16	17	260	14	100	34	3	70	10.0	0.4	16.50	5.17
NOTS1A-30	98.0-100.6	59	11	20	270	15	120	29	3	84	7.4	0.3	17.20	3.86
NOTS1A-31	100.6-102.1	35	19	13	230	8	130	23	3	49	7.3	1.5	14.20	3.61
NOTS1A-32	104.0-105.1	36	24	10	290	12	140	24	3	49	14.0	0.7	12.90	5.46
NOTS1A-33	105.1-111.8	12	6	3	77		24	9	1	15	2.6	0.1	5.68	1.45
NOTS1A-34	111.8-113.0	12	14	5	90	6	47	42	3	8	2.0	0.6	4.00	2.34
NOTS1A-35	113.0-116.2	46	13	16	320	16	92	26	3	67	9.9	0.2	12.00	4.39
NOTS1A-36	116.2-117.2	54	12	16	240	14	87	20	3	70	9.4	0.2	14.50	4.63
NOTS1A-37	117.2-119.0	26	20	11	270	7	78	24	3	37	11.0	0.3	11.40	3.35
NOTS1A-38	119.0-120.0	53	11	14	190	16	74	18	3	64	9.4	0.2	12.40	4.69
NOTS1A-39	120.0-128.0	30	16	11	230	8	84	20	3	43	12.0	0.2	11.10	3.17
NOTS1A-40	128.0-133.0	51	15	16	250	15	95	22	3	75	9.5	0.1	14.60	4.25
NOTS1A-41	133.0-138.0	49	10	15	280	13	86	20	3	78	8.2	0.2	13.80	4.43
NOTS1A-42	138.0-143.0	50	17	18	290	16	110	21	3	86	9.3	0.2	15.50	4.06
NOTS1A-43	143.0-148.0	48	19	14	220	12	88	21	3	89	7.0	0.2	14.80	4.70
NOTS1A-44	148.0-151.1	51	16	15	220	14	74	19	3	74	7.3	0.2	12.80	4.57
NOTS1A-45	134	49	15	15	310	13	76	21	3	83	8.4	0.2	14.30	5.63
NOTS1A-46	151.1-151.6	21	28	9	140	5	71	26	3	35	14.0	0.3	8.45	2.88
NOTS1A-47	151.6-154.0	33	22	13	200	13	84	18	3	56	16.0	0.2	13.80	3.75
NOTS1A-48	154.0-155.5	44	48	17	240	14	140	23	3	68	18.0	0.3	15.50	5.33

Table 3 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS1A-49	155.5-157.2	45	17	15	230	16	110	21	3	59	13.0	0.2	14.70	3.75
NOTS1A-50	157.2-158.8	18	42	5	120		140	13	2	26	3.9	0.1	8.70	7.20
NOTS1A-51	158.8-163.2	10	10	4	83	5	35	9	1	14	3.3	0.2	4.53	1.85
NOTS1A-52	163.2-174.8	12	5	3	76	4	21	6		13	3.1	0.1	4.31	1.27
NOTS1A-53	174.8-179.0	16	24	4	97	6	64	9	1	19	7.2	0.3	6.69	1.94
NOTS1A-54	179.0-183.9	13	6	3	72	5	27	7		15	5.9	0.1	4.78	1.36
NOTS1A-55	183.9-184.0	34	120	10	170	15	450	29	3	43	31.0	1.2	10.30	6.77
NOTS1A-56	184.0-185.0	33	15	8	130	9	64	16	2	34	13.0	0.2	9.11	3.05
NOTS1A-57	185.0-185.3	29	26	7	130	10	91	15	2	32	13.0	0.3	9.44	3.37
NOTS1A-58	185.3-189.9	12	9	3	70	5	28	9	1	14	5.2	0.2	5.82	1.94
NOTS1A-59	189.9-191.8	14	40	6	120	6	96	35	3	12	11.0	0.6	5.40	2.59
NOTS1A-60	191.8-195.6	36	18	10	200	10	77	21	3	41	9.8	0.2	11.70	3.60
NOTS1A-61	195.6-196.1	20	33	10	190	6	170	48	4	29	17.0	1.3	7.81	3.85
NOTS1A-62	196.1-202.1	36	16	11	180	8	69	18	3	42	7.0	0.2	8.95	3.75
NOTS1A-63	202.1-203.4	42	29	12	200	13	160	21	3	61	19.0	1.0	10.10	4.93
NOTS1A-64	203.4-207.5	58	20	18	220	15	100	21	3	79	7.5	0.2	15.10	4.86
NOTS1A-65	207.5-213.3	11	27	4	130		95	11	1	12	6.7	0.3	3.70	2.97
NOTS1A-66	213.3-217.0	9	7	4	120	4	26	9	1	9	3.3		5.19	1.68
NOTS1A-67	217.0-220.0	9	7	2	110		23	11	1	9	4.6		4.70	1.98
NOTS1A-68	220.0-220.3	7	50	5	75	6	120	12	1	7	8.6	0.6		2.36
NOTS1A-69	220.3-225.0	10	6	2	89		22	10	1	9	2.8	0.2	4.20	2.06
NOTS1A-70	225.0-229.0	30	32	8	210	8	97	18	2	30	15.0	0.7	9.06	4.33
NOTS1A-71	229.0-234.5	13	16	3	100	6	42	8	1	15	5.6	0.2	5.97	2.40
NOTS1A-72	233.1-233.3	19	130	16	180	13	370	33	3	31	27.0	1.2		6.45
NOTS1A-73	234.5-239.0	22	32	8	140	6	77	14	2	30	12.0	0.3	8.02	3.03
NOTS1A-74	239.0-242.8	8	5		68		14	7	1	10	2.4		5.31	1.76
NOTS1A-75	242.8-244.1	4	39	3	48		52	13	1	4	4.7	0.3	4.10	1.87
NOTS1A-76	244.1-246.0	18	17	5	110	5	46	11	1	20	8.1	0.3	5.65	2.00
NOTS1A-77	246.0-246.2	11	100	9	95	7	150	27	2	14	14.0	1.0	3.80	3.30
NOTS1A-78	246.2-249.4	21	51	6	130	6	97	14	2	24	13.0	0.6	7.52	2.59
NOTS1A-79	249.4-249.6	24	100	10	190	9	170	33	3	21	17.0	2.8	4.50	3.76
NOTS1A-80	249.6-255.1	21	13	6	140	6	40	17	2	17	7.2	2.5	9.47	2.24
NOTS1A-81	255.1-259.2	43	17	14	350	15	86	22	3	50	13.0	0.3	13.30	3.54
NOTS1A-82	259.2-268.0	25	17	6	150		66	13	2	28	7.0	1.3	10.00	2.69
	Count	82	75	78	82	73	82	82	77	82	82	77	80	82
	Maximum	59	130	20	350	16	450	48	4	89	31	2.8	17.2	7.2
	Minimum	4	5	2	30	4	12	6	1	4	1	0.1	3.10	1.16
	Average	28	24	9.4	157	10	86	19	2.3	39	10	0.4	9.63	3.30
	Median	25	16	8	140	9	78.5	18	2	35	8.4	0.2	9.46	3.25
	Std. Deviation	15	24	4.6	72	3.7	63	8.3	0.80	24	5.9	0.48	3.874	1.26
	Variance	230	588	21	5124	13.5	4026	70	0.64	564	34	0.23	15.01	1.59

Table 4: Analytical results for drill core NOTS 2. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS2-1	15.0-21.5	sandstone	7.40	0.38	4.40	1.50	0.86	0.38	0.040	0.36	270
NOTS2-2	21.5-27.0	mudstone	7.70	2.40	4.30	1.40	2.10	0.37	0.040	0.32	1300
NOTS2-3	27.0-29.2	mudstone	8.90	0.46	4.70	1.40	1.40	0.36	0.040	0.37	170
NOTS2-4	29.2-38.5	mudstone	9.00	0.60	4.80	1.50	1.50	0.41	0.040	0.37	250
NOTS2-5	38.5-43.0	mudstone	8.60	0.80	4.60	1.50	1.40	0.45	0.040	0.37	400
NOTS2-6	43.0-48.0	mudstone	8.40	1.40	4.20	1.10	2.00	0.45	0.030	0.34	590
NOTS2-7	48.0-53.0	mudstone	8.60	1.80	4.30	1.00	2.30	0.46	0.030	0.34	750
NOTS2-8	53.0-55.0	mudstone	7.20	0.76	3.80	1.10	1.20	0.51	0.020	0.34	360
NOTS2-9	55.0-58.8	sandstone	8.10	0.61	4.60	1.40	1.20	0.51	0.030	0.33	340
NOTS2-10	58.8-59.7	sandstone	8.10	0.59	4.30	1.40	1.20	0.53	0.030	0.33	320
NOTS2-11	59.7-71.1	sandstone	8.00	0.42	4.40	1.40	1.10	0.51	0.030	0.33	240
NOTS2-12	71.1-76.4	sandstone	5.90	1.90	3.00	0.98	1.70	0.53	0.050	0.27	1000
NOTS2-13	71.4	sandstone	5.60	0.95	0.86	0.93	1.10	0.52	0.020	0.28	420
NOTS2-14	76.4-80.5	siltstone	6.90	4.20	3.90	1.30	3.30	0.60	0.080	0.29	2300
NOTS2-15	80.5-86.2	mudstone	8.30	0.60	4.70	1.60	1.60	0.59	0.070	0.36	310
NOTS2-16	86.2-87.5	sandstone	5.40	0.55	1.70	1.00	0.79	0.50	0.020	0.26	290
NOTS2-17	87.5-93.4	siltstone	7.60	0.47	4.30	1.50	0.97	0.59	0.030	0.33	300
NOTS2-18	93.4-96.7	sandstone	7.40	0.26	4.10	1.50	0.83	0.59	0.050	0.31	180
NOTS2-19	96.7-99.5	sandstone	5.90	1.90	3.30	1.10	1.50	0.51	0.040	0.26	1000
NOTS2-20	99.5-106.5	sandstone	5.20	0.63	4.20	0.93	0.84	0.42	0.040	0.21	500
NOTS2-21	106.5-108.9	conglomerate	5.60	6.20	4.40	1.10	3.90	0.38	0.080	0.23	3200
NOTS2-22	108.9-116.5	sandstone	1.60	0.95	0.34	0.20	0.60	0.27	0.030	0.10	400
NOTS2-23	116.5-117.3	conglomerate	2.10	12.00	0.95	0.37	6.50	0.21	0.020	0.07	5800
NOTS2-24	117.3-126.2	mudstone	8.50	0.52	4.80	1.70	1.50	0.57	0.040	0.37	450
NOTS2-25	126.2-131.1	sandstone	6.60	2.10	3.70	1.40	1.70	0.49	0.040	0.31	1100
NOTS2-26	131.1	sandstone	4.50	0.19	0.71	0.83	0.35	0.49	0.060	0.23	56
NOTS2-27	131.1-131.8	sandstone	3.90	0.15	1.70	0.72	0.35	0.39	0.020	0.21	86
NOTS2-28	131.8-142.6	sandstone	4.00	0.19	2.70	0.74	0.38	0.37	0.020	0.19	120
NOTS2-29	142.6-147.5	sandstone	1.40	0.37	0.98	0.20	0.29	0.15	0.009	0.07	170
NOTS2-30	147.5-148.1	sandstone	1.30	1.20	0.19	0.18	0.65	0.12	0.020	0.07	460
NOTS2-31	148.1-153.2	sandstone	5.70	0.42	3.50	1.00	0.67	0.45	0.020	0.29	340
NOTS2-32	153.2-158.0	sandstone	7.50	0.11	4.50	1.50	0.70	0.45	0.030	0.31	280
NOTS2-33	158.0-162.0	sandstone	6.10	0.08	3.50	1.20	0.56	0.38	0.020	0.27	150
NOTS2-34	162.0-171.5	sandstone	2.50	0.44	1.30	0.39	0.46	0.16	0.010	0.13	220
NOTS2-35	171.5-176.4	sandstone	2.40	0.04	0.71	0.37	0.29	0.19	0.010	0.12	35
NOTS2-36	176.4-182.6	sandstone	3.90	0.08	1.00	0.59	0.49	0.28	0.020	0.20	58
NOTS2-37	182.6-183.2	conglomerate	2.20	11.00	0.63	0.33	5.80	0.19	0.030	0.09	5100
NOTS2-38	183.2-184.9	mudstone	10.00	0.73	4.00	1.60	1.70	0.57	0.060	0.43	360
NOTS2-39	184.9-190.0	mudstone	8.70	1.40	4.80	1.20	1.90	0.60	0.040	0.35	790
NOTS2-40	190.0-195.0	mudstone	9.20	0.81	5.10	1.40	1.60	0.64	0.040	0.36	430
NOTS2-41	195.0-200.7	mudstone	9.60	1.00	4.90	1.50	1.60	0.62	0.040	0.37	510
NOTS2-42	200.7-206.2	mudstone	9.50	0.75	4.70	1.30	1.50	0.67	0.030	0.35	380
NOTS2-43	206.2-209.6	mudstone	9.20	0.79	4.70	1.40	1.50	0.64	0.040	0.35	320
NOTS2-44	209.6-211.2	mudstone	9.30	1.10	4.80	1.60	1.70	0.61	0.050	0.36	400
NOTS2-45	211.2-211.3	clayst. w/ grn. min.	9.50	1.30	3.50	1.60	1.90	0.62	0.050	0.36	470
NOTS2-46	211.3-216.0	mudstone	9.20	1.70	4.60	1.50	2.10	0.63	0.050	0.34	610
NOTS2-47	216.0-220.5	mudstone	8.60	2.10	4.20	1.10	2.40	0.71	0.040	0.34	750
NOTS2-48	220.5-224.0	mudstone	8.80	2.30	4.30	0.94	2.40	0.71	0.020	0.35	800

Table 4 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS2-49	224.0-229.0	mudstone	8.90	0.33	4.50	0.98	1.20	0.65	0.020	0.37	190
NOTS2-50	229.0-235.9	mudstone	9.30	0.57	4.90	1.60	1.10	0.49	0.030	0.37	400
NOTS2-51	235.9-240.0	mudstone	8.20	0.11	4.50	1.60	0.69	0.46	0.030	0.37	190
NOTS2-52	240.0-242.5	mudst. & sandst.	6.60	1.00	3.60	1.20	1.00	0.42	0.030	0.30	510
NOTS2-53	242.5-247.0	sandstone	4.50	0.42	1.80	0.76	0.48	0.32	0.040	0.22	150
NOTS2-54	247.0-252.6	sandstone	8.10	0.90	6.70	1.50	0.65	0.42	0.340	0.31	410
NOTS2-55	252.6-253.6	sandstone	5.80	0.25	2.40	1.00	0.53	0.50	0.050	0.27	120
NOTS2-56	253.6-259.0	sandstone	3.70	0.44	2.30	0.64	0.50	0.39	0.020	0.22	210
NOTS2-57	259.0-264.0	sandstone	5.30	0.38	3.00	0.97	0.48	0.46	0.110	0.26	130
NOTS2-58	264.0-269.0	sandstone	5.60	0.11	3.10	0.97	0.47	0.53	0.030	0.29	110
NOTS2-59	269.0-274.0	sandstone	3.40	0.43	2.00	0.50	0.47	0.39	0.020	0.19	200
NOTS2-60	274.0-277.0	sandstone	2.80	0.79	1.60	0.38	0.63	0.31	0.020	0.14	350
	Count		60	60	60	60	60	60	60	60	60
	Maximum		10	12	6.7	1.70	6.50	0.71	0.34	0.43	5800
	Minimum		1.3	0.04	0.19	0.18	0.29	0.12	0.009	0.07	35
	Average		6.5	1.29	3.40	1.09	1.38	0.46	0.041	0.28	635
	Median		7.3	0.62	4.05	1.10	1.15	0.475	0.030	0.31	355
	Std. Deviation		2.5	2.17	1.53	0.43	1.16	0.14	0.043	0.091	1037
	Variance		6.2	4.69	2.34	0.18	1.35	0.020	0.0019	0.0083	1075942

Table 4 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS2-1	15.0-21.5		630	3	90	22	97	10		20	51	79	12	46
NOTS2-2	21.5-27.0	10	480	3	85	20	92	13		23	47	70	11	44
NOTS2-3	27.0-29.2	10	270	3	98	20	90	19	2	24	50	73	15	48
NOTS2-4	29.2-38.5		260	3	71	21	89	18		25	39	80	13	35
NOTS2-5	38.5-43.0	10	240	3	75	19	98	12		23	42	77	13	38
NOTS2-6	43.0-48.0		180	2	66	20	91	17		23	38	84	12	33
NOTS2-7	48.0-53.0	10	170	3	65	21	84	14		24	36	90	13	33
NOTS2-8	53.0-55.0		190	2	75	16	93	11		20	41	69	10	35
NOTS2-9	55.0-58.8	10	250	2	85	19	93	14		22	48	82	10	42
NOTS2-10	58.8-59.7	10	240	2	83	18	100	15		22	46	79	11	41
NOTS2-11	59.7-71.1	10	230	2	92	19	97	10		21	49	75	10	44
NOTS2-12	71.1-76.4		180	2	77	14	85	12		18	42	53	4	37
NOTS2-13	71.4		160	2	79	13	73	22		15	44	57	8	40
NOTS2-14	76.4-80.5		390	2	72	19	84	21		23	38	59	6	39
NOTS2-15	80.5-86.2	10	290	3	83	22	98	19		23	46	78	11	41
NOTS2-16	86.2-87.5		200	2	64	13	71	6		14	35	50	7	30
NOTS2-17	87.5-93.4	10	310	2	80	17	94	14		20	45	71	9	38
NOTS2-18	93.4-96.7		300	2	75	16	92	17		21	40	61	9	38
NOTS2-19	96.7-99.5		2200	2	70	15	73	15		17	34	51	5	34
NOTS2-20	99.5-106.5	20	220	2	67	16	68	8		16	33	47		31
NOTS2-21	106.5-108.9	30	250	2	110	22	68	17	3	21	58	52	7	61
NOTS2-22	108.9-116.5		57		33	5	19	3		5	19	14		19
NOTS2-23	116.5-117.3		99		55	12	28	21	3	15	46	19		52
NOTS2-24	117.3-126.2	20	490	3	87	23	94	34		23	48	73	12	42
NOTS2-25	126.2-131.1		350	2	78	16	90	20		20	43	61	9	40
NOTS2-26	131.1		230	2	72	19	55	190		12	37	38	14	41
NOTS2-27	131.1-131.8		190	1	65	9	49	7		10	35	34		30
NOTS2-28	131.8-142.6		220	1	62	11	52	5		12	31	34		29
NOTS2-29	142.6-147.5		640		24	8	15	4		4	12	12		11
NOTS2-30	147.5-148.1		120		25	6	17	3		5	12	12		14
NOTS2-31	148.1-153.2		400	2	79	15	74	17		15	42	48	7	38
NOTS2-32	153.2-158.0	10	550	3	87	21	95	26		21	48	69	10	42
NOTS2-33	158.0-162.0		410	2	75	17	73	9		16	42	58	8	36
NOTS2-34	162.0-171.5		150		48	12	32	5		7	24	23		23
NOTS2-35	171.5-176.4		120		38	11	29	9		7	19	26		16
NOTS2-36	176.4-182.6		180	1	56	13	51	11		10	31	44		27
NOTS2-37	182.6-183.2		490		70	14	30	10	3	15	45	23		52
NOTS2-38	183.2-184.9		280	3	80	28	100	56		28	51	100	17	43
NOTS2-39	184.9-190.0	10	220	3	69	22	87	29		24	43	93	13	35
NOTS2-40	190.0-195.0		260	3	71	21	94	27		25	41	89	12	37
NOTS2-41	195.0-200.7	10	280	3	78	20	110	18		23	42	91	10	35
NOTS2-42	200.7-206.2		250	3	79	19	110	15		23	42	100	11	35
NOTS2-43	206.2-209.6		270	3	75	19	100	17		23	40	91	10	34
NOTS2-44	209.6-211.2	10	270	3	94	22	110	16		23	48	87	11	42
NOTS2-45	211.2-211.3		270	3	71	22	110	11		23	40	91	11	36
NOTS2-46	211.3-216.0		260	3	85	22	100	16		23	43	85	8	39
NOTS2-47	216.0-220.5		180	3	65	21	100	16		22	34	81	10	31
NOTS2-48	220.5-224.0		180	3	64	20	100	16		22	35	95	9	31

Table 4 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS2-49	224.0-229.0	10	190	3	66	19	100	17		21	33	100	10	30
NOTS2-50	229.0-235.9	10	290	3	100	20	110	21		23	50	96	8	47
NOTS2-51	235.9-240.0		310	3	91	19	99	22		20	47	84	11	40
NOTS2-52	240.0-242.5		240	2	77	14	77	11		17	38	58	7	35
NOTS2-53	242.5-247.0		150	1	70	10	52	7		11	34	36		32
NOTS2-54	247.0-252.6	10	320	3	170	20	100	49	4	20	69	65	8	81
NOTS2-55	252.6-253.6		220	2	72	19	66	20		14	36	52		34
NOTS2-56	253.6-259.0		230	1	53	9	40	5		9	27	31	5	22
NOTS2-57	259.0-264.0		220	2	80	13	58	11		14	37	45		38
NOTS2-58	264.0-269.0		210	2	69	12	61	11		13	35	44	6	31
NOTS2-59	269.0-274.0		230		45	10	37	4		8	22	27		20
NOTS2-60	274.0-277.0		140		39	7	32	3		7	19	22		18
	Count	19	60	51	60	60	60	60	5	60	60	60	44	60
	Maximum	30	2200	3	170	28	110	190	4	28	69	100	17	81
	Minimum	10	57	1	24	5	15	3	2	4	12	12	4	11
	Average	12	297	2.4	73	17	76	18	3.0	18	39	61	9.8	36
	Median	<10	240	2	73.5	19	88	15	<2	20	40.5	63	8.5	36
	Std. Deviation	5.4	277	0.66	21	4.9	27	25	0.71	6.1	10	26	2.8	11
	Variance	29	76463	0.44	453	24	743	601	0.50	37	108	653	7.6	121

Table 4 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS2-1	15.0-21.5	48	10	14	120	11	100	23	3	60	9.1	0.1	12.40	3.83
NOTS2-2	21.5-27.0	46	9	14	140	11	98	25	3	53	12.0	0.2	12.80	3.78
NOTS2-3	27.0-29.2	54	11	16	170	11	110	22	3	74	11.0	0.2	13.70	3.74
NOTS2-4	29.2-38.5	54	9	17	170	12	120	20	3	71	10.0	0.3	14.70	3.54
NOTS2-5	38.5-43.0	49	11	16	160	11	120	21	3	59	9.9	0.3	12.60	3.78
NOTS2-6	43.0-48.0	50	11	15	180	11	100	20	3	56	7.1	0.2	15.40	3.51
NOTS2-7	48.0-53.0	51	11	16	200	11	95	20	3	61	7.8	0.1	9.25	3.13
NOTS2-8	53.0-55.0	43	9	12	130	10	90	19	2	43	8.0	0.1	11.60	2.89
NOTS2-9	55.0-58.8	48	10	15	150	12	120	21	3	51	12.0	0.2	14.10	2.75
NOTS2-10	58.8-59.7	47	9	14	150	10	310	21	3	48	9.7	0.2	14.40	6.46
NOTS2-11	59.7-71.1	48	8	15	150	11	84	19	3	51	12.0	0.1	13.40	3.06
NOTS2-12	71.1-76.4	35	7	10	130	9	61	19	2	33	5.3		11.00	3.07
NOTS2-13	71.4	34		10	110	10	860	19	3	35	4.6	4.8		47.30
NOTS2-14	76.4-80.5	43	8	14	160	10	63	22	3	42	5.6		10.90	2.70
NOTS2-15	80.5-86.2	53	11	15	180	12	97	20	3	58	10.0	0.2	12.30	3.08
NOTS2-16	86.2-87.5	30		9	120	8	240	15	2	32	3.3	0.2	9.19	6.49
NOTS2-17	87.5-93.4	44	8	14	160	12	81	20	3	48	8.7	0.1	12.10	2.83
NOTS2-18	93.4-96.7	43	8	13	160	12	75	17	2	48	8.5	0.1	12.70	2.53
NOTS2-19	96.7-99.5	34	7	10	150	9	56	22	2	32	5.5	0.1	8.61	2.16
NOTS2-20	99.5-106.5	33	6	10	130	8	110	17	2	32	18.0	0.1	8.54	3.54
NOTS2-21	106.5-108.9	35	7	18	220	10	98	42	4	35	30.0	0.1	10.90	2.82
NOTS2-22	108.9-116.5	7		2	50		15	11	1	9	1.0	0.4	5.07	1.28
NOTS2-23	116.5-117.3	10	5	6	110		59	45	3	6	2.0	3.2	4.80	2.62
NOTS2-24	117.3-126.2	55	11	16	190	12	96	23	3	57	12.0		12.30	2.96
NOTS2-25	126.2-131.1	39	6	12	160	10	230	23	3	46	6.1	0.2	13.80	9.67
NOTS2-26	131.1	29		7	120	7	2100	22	3	26	2.1	110.0		11.50
NOTS2-27	131.1-131.8	22		7	110	8	69	16	2	22	2.7	0.7	12.10	6.02
NOTS2-28	131.8-142.6	24	4	7	100	7	56	13	2	22	4.0	0.1	8.86	2.05
NOTS2-29	142.6-147.5	9		2	45		20	5		5	0.9	0.2	3.20	0.88
NOTS2-30	147.5-148.1	7		3	41		22	9		3	0.8	0.2	2.90	1.69
NOTS2-31	148.1-153.2	33	6	10	130	10	80	19	3	32	6.9	1.7	12.20	3.12
NOTS2-32	153.2-158.0	46	11	11	170	12	110	21	3	54	8.7	0.7	13.70	5.35
NOTS2-33	158.0-162.0	38	6	11	150	9	80	18	2	41	6.8	0.2	9.87	2.96
NOTS2-34	162.0-171.5	17		4	84	5	30	10	1	14	2.0	0.2	4.60	1.33
NOTS2-35	171.5-176.4	18		4	69		28	8	1	15	2.0		5.43	1.33
NOTS2-36	176.4-182.6	28		7	100	7	43	13	2	25	2.2	0.1	9.52	1.80
NOTS2-37	182.6-183.2	13		7	130		81	38	3	7	2.0	1.0	5.40	4.11
NOTS2-38	183.2-184.9	68		18	210	13	260	22	3	66	5.8	2.0	18.20	12.80
NOTS2-39	184.9-190.0	55	9	16	190	12	95	20	3	53	8.6		13.10	3.00
NOTS2-40	190.0-195.0	55	8	17	200	13	100	21	3	67	11.0		12.40	3.08
NOTS2-41	195.0-200.7	51	7	17	210	13	140	20	3	78	11.0	0.1	14.80	3.24
NOTS2-42	200.7-206.2	51	5	17	220	12	140	20	3	66	9.3	0.1	15.10	3.15
NOTS2-43	206.2-209.6	50	4	16	210	13	110	19	3	68	11.0	0.1	15.60	3.18
NOTS2-44	209.6-211.2	51		16	210	13	350	21	3	68	13.0	0.2	12.20	10.20
NOTS2-45	211.2-211.3	53		16	210	12	1500	20	3	66	6.4	0.4		41.60
NOTS2-46	211.3-216.0	51	5	16	220	13	110	19	2	66	8.6		13.30	3.33
NOTS2-47	216.0-220.5	51		15	210	13	93	17	2	57	7.9	0.2	12.40	3.03
NOTS2-48	220.5-224.0	49		16	210	11	100	18	2	59	10.0		10.60	3.02

Table 4 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS2-49	224.0-229.0	50		16	190	13	100	16	2	67	12.0		14.60	3.12
NOTS2-50	229.0-235.9	50		16	180	13	150	21	3	68	14.0	0.2	14.20	5.91
NOTS2-51	235.9-240.0	48	5	15	160	12	100	21	3	59	11.0	0.1	14.30	2.98
NOTS2-52	240.0-242.5	35		11	140	10	74	18	2	38	4.3	0.1	10.10	2.60
NOTS2-53	242.5-247.0	23		8	100	9	78	21	2	26	2.0	0.7	11.70	4.24
NOTS2-54	247.0-252.6	47	5	15	260	13	120	78	6	68	18.0	0.1	13.30	3.48
NOTS2-55	252.6-253.6	36		9	150	9	190	18	2	39	3.0	6.0	10.90	6.26
NOTS2-56	253.6-259.0	19		6	90	7	52	11	2	24	2.2		7.28	2.47
NOTS2-57	259.0-264.0	30		9	140	9	59	33	3	35	4.0		8.63	2.45
NOTS2-58	264.0-269.0	31		9	150	10	68	16	2	37	4.4		10.60	2.47
NOTS2-59	269.0-274.0	17		5	96	5	37	10	1	20	9.4		6.25	1.80
NOTS2-60	274.0-277.0	14		5	79	5	34	9	1	23	2.0		5.85	1.39
	Count	60	34	60	60	54	60	60	58	60	60	46	57	60
	Maximum	68	11	18	260	13	2100	78	6	78	30	110	18.2	47.3
	Minimum	7	4	2	41	5	15	5	1	3	0.8	0.1	2.90	0.88
	Average	38	7.9	12	151	10	171	20	2.6	44	7.7	2.98	11.0	5.07
	Median	43	5	13.5	150	10	96.5	20	3	47	7.85	0.1	11.9	3.08
	Std. Deviation	15	2.3	4.6	49	2.2	331	10	0.82	20	5.1	16	3.43	7.75
	Variance	219	5.2	21	2355	5.0	109802	106	0.67	404	26	262	11.8	60.1

Table 5: Analytical results for drill core NOTS 3. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS3-1	15.0-20.2	sandstone	1.60	2.90	1.30	0.32	1.80	0.14	0.020	0.10	1100
NOTS3-2	20.2-21.2	conglomerate	1.90	9.10	2.00	0.38	5.30	0.15	0.020	0.11	3200
NOTS3-3	21.2-25.9	sandstone	2.30	1.30	1.00	0.43	0.85	0.20	0.008	0.16	410
NOTS3-4	25.9-31.0	sandstone	1.50	0.33	0.65	0.28	0.29	0.14	0.007	0.12	150
NOTS3-5	31.0-35.8	sandstone	0.67	0.02	0.25	0.12	0.05	0.07		0.06	36
NOTS3-6	35.8-40.5	sandstone	1.10	0.30	0.32	0.20	0.24	0.07	0.005	0.07	160
NOTS3-7	40.5-41.3	conglomerate	2.50	11.00	1.90	0.52	6.50	0.15	0.020	0.10	3800
NOTS3-8	41.3-44.0	mudstone	8.20	1.90	4.20	1.70	2.70	0.36	0.050	0.40	780
NOTS3-9	44.0-51.3	mudstone	7.70	2.10	4.30	1.70	1.90	0.36	0.030	0.38	780
NOTS3-10	51.3-52.0	sandstone	3.30	0.41	0.46	0.66	0.43	0.36	0.010	0.21	120
NOTS3-11	52.0-60.3	sandstone	1.10	0.22	0.48	0.18	0.16	0.15	0.006	0.09	79
NOTS3-12	60.3-61.2	sandstone	1.10	1.00	0.93	0.20	0.64	0.08	0.010	0.08	360
NOTS3-13	61.2-65.5	sandstone	1.30	0.43	0.76	0.22	0.32	0.14	0.009	0.10	170
NOTS3-14	65.5-70.0	sandstone	2.70	0.07	1.20	0.47	0.22	0.24	0.010	0.18	75
NOTS3-15	70.0-76.0	sandstone	3.90	0.49	2.60	0.72	0.57	0.29	0.020	0.24	280
NOTS3-16	76.0-76.6	mudstone	5.90	1.20	0.90	1.20	1.10	0.40	0.020	0.32	380
NOTS3-17	76.6-78.0	mudstone	6.50	5.80	3.80	1.30	3.90	0.33	0.020	0.29	2000
NOTS3-18	78.0-83.0	mudstone	7.00	3.40	3.40	1.30	2.70	0.40	0.020	0.36	1200
NOTS3-19	83.0-87.4	mudstone	8.10	0.55	3.70	1.50	1.20	0.43	0.020	0.39	230
NOTS3-20	87.4-88.7	mudstone	5.30	4.20	3.90	1.20	3.00	0.41	0.020	0.27	1500
NOTS3-21	88.7-94.0	mudstone	8.90	1.40	4.20	1.80	2.00	0.44	0.040	0.42	530
NOTS3-22	94.0-99.0	mudstone	8.50	2.00	4.50	1.80	2.20	0.38	0.040	0.39	740
NOTS3-23	99.0-104.0	mudstone	7.60	1.90	4.60	1.50	2.20	0.47	0.040	0.38	770
NOTS3-24	104.0-109.0	mudstone	7.50	1.80	4.00	1.50	2.00	0.48	0.030	0.38	710
NOTS3-25	109.0-112.0	mudstone	7.60	0.82	5.40	1.70	1.50	0.46	0.030	0.37	360
NOTS3-26	112.0-113.0	sandstone	3.50	0.55	0.54	0.58	0.50	0.43	0.010	0.23	170
NOTS3-27	113.0-113.3	sandstone	3.10	6.50	3.40	0.55	3.90	0.36	0.010	0.17	2400
NOTS3-28	113.3-115.6	sandstone	1.40	0.93	0.38	0.19	0.11	0.23	0.005	0.12	30
NOTS3-29	115.6-120.1	sandstone	0.84	0.28	1.40	0.12	0.17	0.15	0.020	0.08	170
NOTS3-30	120.1-126.0	sandstone	0.87	0.69	0.47	0.13	0.45	0.09		0.07	280
NOTS3-31	125.0-125.4	sandstone	0.50	5.00	0.19	0.08	3.00	0.05		0.04	2600
NOTS3-32	126.0-127.8	mudstone	8.30	0.74	5.10	1.90	1.30	0.43	0.030	0.36	460
NOTS3-33	127.8-129.0	siltstone	4.80	7.20	2.80	0.95	4.40	0.40	0.010	0.21	2600
NOTS3-34	129.0-133.7	sandstone	5.80	1.80	2.70	1.10	1.50	0.49	0.020	0.31	730
NOTS3-35	133.7-135.0	sandstone	5.40	1.70	1.80	1.10	1.40	0.52	0.020	0.30	630
NOTS3-36	135.0-136.0	mudstone	7.90	2.10	3.80	1.50	2.30	0.68	0.040	0.36	770
NOTS3-37	136.0-141.0	mudstone	6.90	5.70	3.80	1.50	4.20	0.54	0.030	0.34	2100
NOTS3-38	141.0-146.0	mudstone	8.20	1.80	4.20	1.50	2.40	0.63	0.040	0.40	740
NOTS3-39	146.0-151.0	mudstone	8.70	1.70	3.90	1.60	2.20	0.58	0.030	0.38	670
NOTS3-40	151.0-157.0	mudstone	9.10	0.58	4.10	1.80	1.20	0.45	0.030	0.41	270
NOTS3-41	157.0-159.9	sandstone	6.00	0.26	3.50	1.10	0.54	0.49	0.020	0.31	210
NOTS3-42	159.9-161.2	claystone-red	6.80	1.10	3.60	1.20	1.10	0.49	0.020	0.34	520
NOTS3-43	161.2-161.7	sandstone	2.70	0.06	0.34	0.38	0.18	0.31	0.009	0.17	25
NOTS3-44	161.7-166.5	sandstone	1.70	0.34	0.85	0.23	0.26	0.26	0.008	0.15	140
NOTS3-45	166.5-169.3	sandstone	2.20	0.81	1.10	0.29	0.57	0.26	0.010	0.16	330
NOTS3-46	169.3-174.2	sandstone	2.90	1.30	1.50	0.42	0.93	0.25	0.020	0.14	520
NOTS3-47	174.2-177.0	mudstone	5.50	3.50	3.50	1.10	2.50	0.38	0.010	0.23	1400
NOTS3-48	177.0-180.3	sandstone	6.40	0.25	3.80	1.30	0.65	0.55	0.020	0.29	310

Table 5 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS3-49	180.3-180.9	sandstone	5.50	0.10	0.77	0.92	0.48	0.56	0.020	0.24	45
NOTS3-50	180.9-182.5	siltstone	3.50	0.09	1.40	0.54	0.29	0.43	0.020	0.17	56
NOTS3-51	182.5-188.0	sandstone	3.20	0.56	1.30	0.51	0.53	0.41	0.010	0.15	250
NOTS3-52	188.0-188.5	sandstone	2.20	13.00	1.70	0.41	6.90	0.21	0.020	0.09	5200
NOTS3-53	188.5-194.0	mudstone	8.10	2.40	4.10	1.40	2.20	0.71	0.030	0.35	1100
	Count		53	53	53	53	53	53	50	53	53
	Maximum		9.1	13	5.4	1.9	6.9	0.71	0.05	0.42	5200
	Minimum		0.50	0.02	0.19	0.08	0.05	0.05	0.005	0.04	25
	Average		4.64	2.18	2.39	0.89	1.70	0.35	0.020	0.24	842
	Median		4.80	1.20	2.00	0.90	1.20	0.38	0.020	0.23	460
	Std. Deviation		2.79	2.81	1.59	0.59	1.61	0.17	0.011	0.12	1053
	Variance		7.79	7.91	2.52	0.34	2.60	0.028	0.00012	0.014	1108455

Table 5 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS3-1	15.0-20.2		87		39	9	26	6		6	22	15		25
NOTS3-2	20.2-21.2		92		56	11	42	9	2	11	30	15		43
NOTS3-3	21.2-25.9		100		38	8	28	5		7	21	22		17
NOTS3-4	25.9-31.0		79		32	8	19	4			17	16		15
NOTS3-5	31.0-35.8		49		17	10	7	5			9	8		7
NOTS3-6	35.8-40.5		67		24	11	10	6		5	12	11		11
NOTS3-7	40.5-41.3		120		55	13	40	14	3	14	29	24	4	46
NOTS3-8	41.3-44.0		330	3	72	39	91	69		23	37	120	13	36
NOTS3-9	44.0-51.3		360	3	82	20	84	35		22	42	72	10	37
NOTS3-10	51.3-52.0		140		44	5	40	13		8	25	28	5	20
NOTS3-11	52.0-60.3		56		26	6	14	3		4	13	11		13
NOTS3-12	60.3-61.2		70		29	10	15	6			14	12		12
NOTS3-13	61.2-65.5		66		33	7	21	7			17	14		15
NOTS3-14	65.5-70.0		110		46	8	39	6		7	24	26		20
NOTS3-15	70.0-76.0		160	1	58	11	53	10		11	30	36	5	27
NOTS3-16	76.0-76.6		230	2	74	11	88	24		16	44	56	7	37
NOTS3-17	76.6-78.0	10	290	2	63	17	69	23		21	38	65	8	36
NOTS3-18	78.0-83.0		310	2	64	15	56	28		21	37	61	10	33
NOTS3-19	83.0-87.4		330	2	78	17	89	25		21	42	69	11	36
NOTS3-20	87.4-88.7	10	290	2	59	13	63	14		16	36	47	8	31
NOTS3-21	88.7-94.0		540	3	78	21	90	29		24	44	80	16	38
NOTS3-22	94.0-99.0	20	400	3	78	20	78	27		23	44	72	13	37
NOTS3-23	99.0-104.0		400	2	76	21	80	28		21	41	66	9	38
NOTS3-24	104.0-109.0	10	350	2	71	18	93	36		21	39	52	11	35
NOTS3-25	109.0-112.0	10	340	3	65	20	95	26		21	37	52	11	30
NOTS3-26	112.0-113.0		130		45	6	31	11		8	27	30	8	21
NOTS3-27	113.0-113.3	10	150	1	51	14	51	15		13	28	30	4	30
NOTS3-28	113.3-115.6		55		32	3	15	3			17	13		15
NOTS3-29	115.6-120.1		54		20	6	17	10			9	10		9
NOTS3-30	120.1-126.0		53		18	7	10	3			10	10		8
NOTS3-31	125.0-125.4		160		17	7	10	3		6	8	6		11
NOTS3-32	126.0-127.8	10	370	3	79	20	110	16		23	43	69	11	37
NOTS3-33	127.8-129.0		210	1	63	14	59	15		18	31	42	5	33
NOTS3-34	129.0-133.7		240	2	69	12	68	12		16	38	52	9	32
NOTS3-35	133.7-135.0		230	2	79	12	72	13		15	46	47	8	39
NOTS3-36	135.0-136.0		370	2	76	18	83	33		22	36	52	11	35
NOTS3-37	136.0-141.0		470	2	68	18	52	30		22	36	51	9	34
NOTS3-38	141.0-146.0		390	3	68	24	87	38		23	38	74	13	34
NOTS3-39	146.0-151.0		610	3	69	22	83	34		24	41	75	13	36
NOTS3-40	151.0-157.0	10	410	3	77	18	89	26		24	45	81	13	38
NOTS3-41	157.0-159.9	10	250	2	83	14	72	20		15	41	52	8	35
NOTS3-42	159.9-161.2		310	2	86	14	79	19		16	43	60	9	37
NOTS3-43	161.2-161.7		86		60	4	34	5		7	30	23		27
NOTS3-44	161.7-166.5		66		52	6	25	4		5	23	16		25
NOTS3-45	166.5-169.3		86		42	6	35	5		6	20	20		19
NOTS3-46	169.3-174.2		110		59	9	45	5		8	26	27		26
NOTS3-47	174.2-177.0		340	2	80	15	68	16		15	30	51	6	25
NOTS3-48	177.0-180.3		330	2	88	15	70	23		16	41	61	7	37

Table 5 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS3-49	180.3-180.9		200	2	75	10	63	9		13	37	51	4	33
NOTS3-50	180.9-182.5		130	1	63	9	40	6		8	28	32		29
NOTS3-51	182.5-188.0		130		52	7	44	5		8	26	30		22
NOTS3-52	188.0-188.5		130		57	13	26	6	2	10	29	21		40
NOTS3-53	188.5-194.0		470	3	82	21	95	36		21	40	59	9	36
	Count	9	53	30	53	53	53	53	3	46	53	53	32	53
	Maximum	20	610	3	88	39	110	69	3	24	46	120	16	46
	Minimum	10	49	1	17	3	7	3	2	4	8	6	4	7
	Average	11	225	2.2	58	13	54	17	2.3	15	30	41	9	28
	Median	<10	200	1	63	12	53	13	<2	14	30	42	5	32
	Std. Deviation	3.3	146	0.66	20	6.5	29	13	0.58	6.6	11	25	3.1	10
	Variance	11.1	21236	0.44	416	43	835	171	0.33	44	123	632	9.5	105

Table 5 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS3-1	15.0-20.2	10	9	4	68	5	26	18	2	13	6.6		6.35	1.38
NOTS3-2	20.2-21.2	14	16	5	85	8	39	36	3	11	5.5	0.2	6.82	1.99
NOTS3-3	21.2-25.9	12	10	3	74	4	32	10	1	12	3.5		4.49	1.59
NOTS3-4	25.9-31.0	9	7	2	54		23	7		12	3.9		4.68	1.25
NOTS3-5	31.0-35.8	4			27		9	4		6	1.0		2.10	0.71
NOTS3-6	35.8-40.5	6			39		11	5		7	1.0		2.40	0.70
NOTS3-7	40.5-41.3	13	29	7	120	7	66	39	3	15	5.3	0.2	4.82	1.66
NOTS3-8	41.3-44.0	71	7	14	170	12	79	21	3	76	6.5	0.3	11.70	3.22
NOTS3-9	44.0-51.3	44	13	14	150	12	93	22	3	51	10.0	0.1	12.60	2.78
NOTS3-10	51.3-52.0	17	14	4	88	6	71	10	2	18	2.7		7.74	2.56
NOTS3-11	52.0-60.3	6	6		39	4	17	6		6	2.1		3.80	1.49
NOTS3-12	60.3-61.2	7	11	2	49		29	8		7	2.9		3.00	0.86
NOTS3-13	61.2-65.5	8	9	2	51		25	7		7	2.2		4.10	1.31
NOTS3-14	65.5-70.0	18	7	4	78	7	36	10	1	17	3.8		5.95	1.80
NOTS3-15	70.0-76.0	24	20	7	110	9	81	14	2	24	5.3	0.2	8.94	2.50
NOTS3-16	76.0-76.6	34	36	8	160	12	320	18	3	43	3.9	0.1	13.30	4.46
NOTS3-17	76.6-78.0	36	10	15	250	10	88	28	3	44	13.0	0.2	10.60	2.45
NOTS3-18	78.0-83.0	37	8	13	410	12	74	21	3	46	8.7	0.2	8.50	2.87
NOTS3-19	83.0-87.4	46	7	14	200	13	84	18	3	57	8.7	0.1	11.50	3.22
NOTS3-20	87.4-88.7	27	17	9	360	9	87	22	2	47	12.0	0.3	8.41	2.58
NOTS3-21	88.7-94.0	51	9	15	250	14	97	21	3	85	7.7	0.1	13.90	3.21
NOTS3-22	94.0-99.0	46	14	16	230	12	100	23	3	72	11.0	0.1	14.50	2.99
NOTS3-23	99.0-104.0	45	11	14	240	13	91	21	3	62	11.0	0.1	10.70	3.40
NOTS3-24	104.0-109.0	43	9	14	240	12	78	19	3	59	9.4	0.1	14.50	3.26
NOTS3-25	109.0-112.0	46	20	14	210	12	130	15	2	63	12.0	0.2	11.40	3.36
NOTS3-26	112.0-113.0	17	45	5	93	7	160	11	2	23	2.8	0.1	7.70	5.97
NOTS3-27	113.0-113.3	17	32	9	120	9	120	23	2	24	6.6	0.3	7.20	2.65
NOTS3-28	113.3-115.6	6			45	4	14	7	1	8	1.0		5.07	1.56
NOTS3-29	115.6-120.1	6	16		31		52	6		7	2.4	0.2	2.10	1.39
NOTS3-30	120.1-126.0	5	5		35		16	5		6	1.0		1.70	0.67
NOTS3-31	125.0-125.4	3		3	33		10	11			0.7			0.52
NOTS3-32	126.0-127.8	52	11	15	170	13	100	19	3	63	12.0	0.1	13.50	3.06
NOTS3-33	127.8-129.0	25	14	9	160	9	68	25	2	29	7.5	0.2	8.61	2.18
NOTS3-34	129.0-133.7	32	13	10	130	11	96	19	3	39	7.1	0.1	11.20	3.07
NOTS3-35	133.7-135.0	29	18	10	140	10	130	21	3	37	4.2	0.1	12.20	3.69
NOTS3-36	135.0-136.0	45	6	15	220	12	73	20	3	66	3.1	0.1	14.10	3.54
NOTS3-37	136.0-141.0	37	8	12	470	10	74	23	2	57	5.7	0.1	9.99	3.08
NOTS3-38	141.0-146.0	49	8	15	200	13	80	19	3	75	6.6	0.1	12.50	3.49
NOTS3-39	146.0-151.0	51	7	15	220	12	85	20	3	79	7.1	0.1	11.60	3.44
NOTS3-40	151.0-157.0	50	9	17	190	14	100	22	3	80	10.0	0.1	13.80	3.47
NOTS3-41	157.0-159.9	35	23	11	150	11	140	17	2	53	12.0	0.2	11.50	4.66
NOTS3-42	159.9-161.2	37	9	12	160	12	91	20	3	63	10.0	0.2	14.60	3.25
NOTS3-43	161.2-161.7	13	4	4	79	6	94	12	2	18	2.1	0.1	7.57	5.79
NOTS3-44	161.7-166.5	10	4	3	50	6	36	11	1	17	3.4	0.1	6.10	2.83
NOTS3-45	166.5-169.3	12	9	3	66	5	52	11	1	14	2.9	0.1	6.13	1.85
NOTS3-46	169.3-174.2	19	8	5	74	7	61	11	1	19	3.5	0.2	7.27	2.22
NOTS3-47	174.2-177.0	33	6	11	220	7	82	17	2	41	8.7	0.2	8.48	3.70
NOTS3-48	177.0-180.3	36	15	11	150	10	95	16	2	55	10.0	0.2	14.10	4.03

Table 5 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS3-49	180.3-180.9	32	10	9	140	9	76	15	2	38	5.3	0.1	11.10	3.65
NOTS3-50	180.9-182.5	19	5	5	92	7	41	11	1	27	4.8	0.1	7.98	2.25
NOTS3-51	182.5-188.0	18		5	83	6	39	10	1	22	5.0	0.2	8.07	2.56
NOTS3-52	188.0-188.5	12	6	6	150	7	46	39	3	13	5.6	0.2	6.64	2.90
NOTS3-53	188.5-194.0	44	6	14	200	12	82	19	3	66	9.2		13.30	3.64
	Count	53	48	47	53	45	53	53	44	52	53	39	52	53
	Maximum	71	45	17	470	14	320	39	3	85	13	0.3	14.6	5.97
	Minimum	3	4	2	27	4	9	4	1	6	0.7	0.1	1.70	0.52
	Average	27	12	9.2	144	9.4	74	17	2.3	37	6.0	0.15	8.86	2.69
	Median	25	9	9	140	9	76	18	2	29	5.5	0.1	8.48	2.83
	Std. Deviation	17	8.5	4.8	95	3.0	50	8.0	0.77	25	3.5	0.06	3.81	1.19
	Variance	285	72	23	9096	8.9	2469	65	0.59	607	12.2	0.004	14.5	1.42

Table 6: Analytical results for drill core NOTS 4. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS4-1	15.0-20.8	mudstone	8.70	0.86	5.20	1.40	1.10	0.10	0.020	0.43	550
NOTS4-2	20.8-30.0	sandstone	4.50	0.09	2.30	1.00	0.33	0.05	0.010	0.26	180
NOTS4-3	30.0-34.0	sandstone	1.40	0.04	0.47	0.30	0.09	0.02	0.005	0.08	36
NOTS4-4	34.0-40.5	sandstone	4.20	0.09	2.30	0.77	0.25	0.04	0.010	0.23	210
NOTS4-5	40.5-50.1	sandstone	2.70	0.07	1.50	0.49	0.06	0.03	0.010	0.17	170
NOTS4-6	50.1-56.0	sandstone	2.80	0.06	1.70	0.51	0.16	0.03	0.010	0.17	220
NOTS4-7	56.0-62.0	sandstone	1.20	0.05	0.87	0.24	0.07	0.02	0.010	0.10	370
NOTS4-8	62.0-63.5	sandstone	1.40	0.04	3.00	0.28	0.09	0.02	0.010	0.08	1100
NOTS4-9	63.5-68.0	sandstone	2.50	0.07	1.60	0.45	0.16	0.02	0.010	0.15	200
NOTS4-10	68.0-72.0	mudst. & sandst.	5.70	0.14	2.80	1.20	0.14	0.06	0.030	0.32	260
NOTS4-11	72.0-76.0	sandstone	3.90	0.10	2.30	0.89	0.28	0.04	0.030	0.25	280
NOTS4-12	76.0-78.5	sandstone	3.10	0.10	1.60	0.73	0.22	0.03	0.010	0.20	130
NOTS4-13	78.5-80.0	sandstone	0.73	0.44	0.36	0.18	0.05	0.01		0.08	44
NOTS4-14	80.0-80.5	sandstone	3.00	0.10	0.53	0.60	0.22	0.03	0.010	0.21	56
NOTS4-15	80.5-82.0	mudstone	7.00	0.21	4.40	1.30	0.63	0.06	0.020	0.34	340
NOTS4-16	82.0-86.8	mudstone	6.60	0.19	3.70	1.20	0.57	0.05	0.020	0.33	350
NOTS4-17	86.8-88.0	sandstone	4.60	0.09	2.60	0.95	0.31	0.04	0.010	0.27	170
NOTS4-18	88.0-88.7	sandstone	3.60	0.08	0.47	0.77	0.22	0.04	0.010	0.23	48
NOTS4-19	88.7-91.0	sandstone	4.10	0.08	1.60	0.88	0.24	0.04	0.020	0.26	100
NOTS4-20	91.0-93.5	sandstone	2.30	0.04	0.95	0.50	0.13	0.03	0.009	0.16	72
NOTS4-21	93.5-107.0	sandstone	1.30	0.19	0.74	0.27	0.17	0.02	0.006	0.10	180
NOTS4-22	107.0-113.8	sandstone	1.00	0.14	1.80	0.21	0.12	0.01	0.006	0.07	410
NOTS4-23	113.8-117.0	sandstone	5.40	0.16	2.50	1.10	0.35	0.05	0.040	0.31	180
NOTS4-24	117.0-122.0	sandstone	3.50	0.35	1.90	0.71	0.38	0.03	0.010	0.22	290
NOTS4-25	122.0-125.0	sandstone	1.30	0.03	0.53	0.27	0.07	0.02	0.005	0.10	31
NOTS4-26	125.0-125.8	mudstone	8.40	0.29	5.70	1.70	0.74	0.07	0.040	0.39	240
NOTS4-27	125.8-129.0	sandstone	6.60	0.17	3.40	1.50	0.52	0.07	0.030	0.36	390
NOTS4-28	129.0-140.0	sandstone	3.60	0.30	1.90	0.81	0.36	0.04	0.020	0.22	240
NOTS4-29	140.0-142.6	sandstone	1.00	0.02	0.31	0.24	0.06	0.01		0.08	28
NOTS4-30	142.6-145.7	sandstone	4.90	0.16	1.90	1.10	0.33	0.05	0.030	0.29	130
NOTS4-31	145.7-147.0	mudstone	7.80	0.14	1.70	1.70	0.58	0.08	0.020	0.47	220
NOTS4-32	147.0-150.5	sandstone	6.80	0.20	1.50	1.50	0.56	0.07	0.030	0.33	410
NOTS4-33	150.5-152.3	sandstone	4.90	0.26	3.00	1.10	0.42	0.05	0.020	0.29	230
NOTS4-34	152.3-157.5	sandstone	1.50	0.06	0.56	0.32	0.11	0.02	0.006	0.10	54
NOTS4-35	157.5-159.5	sandstone	5.20	1.20	3.60	1.10	1.00	0.05	0.020	0.28	810
NOTS4-36	159.5-163.8	sandstone	4.30	0.24	2.80	0.81	0.36	0.04	0.020	0.24	210
NOTS4-37	163.8-179.0	sandstone	2.30	0.60	1.10	0.40	0.24	0.02	0.010	0.14	140
NOTS4-38	179.0-180.5	sandstone	2.40	0.05	0.48	0.44	0.16	0.02	0.009	0.17	32
NOTS4-39	180.5-183.8	sandstone	7.40	0.60	4.60	1.70	0.82	0.07	0.080	0.37	350
NOTS4-40	183.8-189.2	sandstone	4.10	1.20	1.80	0.85	0.89	0.04	0.030	0.24	630
NOTS4-41	189.2-192.5	sandstone	2.80	0.10	0.40	0.59	0.20	0.03	0.020	0.15	130
NOTS4-42	192.5-194.0	siltstone	7.70	0.15	3.60	1.90	0.62	0.08	0.040	0.37	180
NOTS4-43	194.0-202.5	claystone-red	9.50	0.21	5.40	2.20	0.88	0.01	0.050	0.42	380
NOTS4-44	202.5-221.5	claystone-red	7.90	0.31	4.50	1.50	0.85	0.06	0.030	0.35	200
NOTS4-45	221.5-227.8	mudstone	6.80	0.17	2.50	1.60	0.54	0.07	0.030	0.38	140
NOTS4-46	227.8-240.3	mudstone	9.00	0.29	5.30	2.10	0.91	0.08	0.030	0.41	250
NOTS4-47	240.3-243.9	sandstone	4.90	0.14	1.50	1.20	0.44	0.05	0.020	0.26	75
NOTS4-48	243.9-250.5	mudstone	7.30	0.21	4.70	1.50	0.69	0.06	0.040	0.37	180

Table 6 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS4-49	250.5-253.0	sandstone	4.70	0.11	1.50	0.98	0.38	0.04	0.020	0.24	110
NOTS4-50	253.0-270.5	sandstone	2.30	0.58	1.00	0.46	0.34	0.03	0.080	0.15	240
NOTS4-51	270.5-271.0	claystone-red	8.60	0.30	4.80	2.00	0.87	0.08	0.030	0.37	250
NOTS4-52	271.0-276.5	sandstone	0.46	0.01	0.20	0.10	0.03	0.01		0.04	18
NOTS4-53	276.5-277.0	sandstone	0.34	0.08	10.00	0.67	0.24	0.03	0.030	0.21	470
NOTS4-54	282.7-285.6	sandstone	1.90	0.05	0.27	0.35	0.14	0.02	0.010	0.13	26
NOTS4-55	285.6-290.5	mudst. & sandst.	7.30	0.35	4.70	0.95	1.20	0.05	0.020	0.37	210
	Count		55	55	55	55	55	55	52	55	55
	Maximum		9.50	1.20	10	2.20	1.20	0.10	0.08	0.47	1100
	Minimum		0.34	0.01	0.20	0.10	0.03	0.01	0.005	0.04	18
	Average		4.35	0.22	2.41	0.92	0.40	0.04	0.022	0.24	235
	Median		4.10	0.14	1.90	0.85	0.33	0.04	0.020	0.24	200
	Std. Deviation		2.57	0.25	1.89	0.55	0.30	0.022	0.016	0.11	198
	Variance		6.62	0.065	3.56	0.30	0.093	0.00049	0.00026	0.012	39173

Table 6 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS4-1	15.0-20.8	10	450	3	92	20	110	29		22	45	93	9	44
NOTS4-2	20.8-30.0		350	2	67	13	58	11		11	34	36	6	31
NOTS4-3	30.0-34.0		83		25	7	16	5			12	11		13
NOTS4-4	34.0-40.5		160	1	65	14	54	11		11	28	28	4	27
NOTS4-5	40.5-50.1		110		53	12	40	6		8	22	20		21
NOTS4-6	50.1-56.0		120		58	10	38	6		8	25	19		22
NOTS4-7	56.0-62.0		95		35	5	18	3		5	15	11		14
NOTS4-8	62.0-63.5		150		32	10	20	6		5	13	11		12
NOTS4-9	63.5-68.0		98		51	10	32	6		7	20	17		20
NOTS4-10	68.0-72.0		250	2	88	17	79	14		14	43	42	7	38
NOTS4-11	72.0-76.0		190	1	65	14	48	12		9	31	29	5	28
NOTS4-12	76.0-78.5		150	1	54	11	41	7		8	27	23		25
NOTS4-13	78.5-80.0		60		25	6	10	3			12	10		16
NOTS4-14	80.0-80.5		120		70	11	56	5		8	36	23		35
NOTS4-15	80.5-82.0		260	3	99	16	89	21		17	49	55	8	48
NOTS4-16	82.0-86.8		250	2	86	15	80	21		16	41	51	7	43
NOTS4-17	86.8-88.0		200	2	67	10	62	12		12	33	33	6	31
NOTS4-18	88.0-88.7		160		59	7	90	4		9	31	24	4	28
NOTS4-19	88.7-91.0		190	1	68	9	55	9		11	34	27	5	31
NOTS4-20	91.0-93.5		110		42	7	39	7		6	21	17		19
NOTS4-21	93.5-107.0		79		31	5	21	6			14	11		13
NOTS4-22	107.0-113.8		94		22	6	18	5			10	9		11
NOTS4-23	113.8-117.0		220	2	82	12	100	12		14	40	36	6	37
NOTS4-24	117.0-122.0		150	1	54	10	51	8		9	26	25		25
NOTS4-25	122.0-125.0		68		31	4	18	4			15	11		15
NOTS4-26	125.0-125.8		310	3	96	21	130	18		22	45	57	9	44
NOTS4-27	125.8-129.0		330	2	99	18	82	24		16	47	46	8	42
NOTS4-28	129.0-140.0		180	1	57	10	56	14		9	29	26		26
NOTS4-29	140.0-142.6		72		22	7	17	5			11	10		11
NOTS4-30	142.6-145.7		220	2	70	12	83	10		13	35	39		34
NOTS4-31	145.7-147.0	10	360	3	100	18	100	18		19	51	62	12	45
NOTS4-32	147.0-150.5		350	2	97	19	87	22		17	47	54	7	44
NOTS4-33	150.5-152.3		230	2	70	13	120	11		12	36	38	6	32
NOTS4-34	152.3-157.5		84		27	7	32	4			13	13		13
NOTS4-35	157.5-159.5	20	210	2	75	15	100	13		14	35	39	5	34
NOTS4-36	159.5-163.8		220	1	66	12	70	9		11	32	36	5	30
NOTS4-37	163.8-179.0		1300		50	9	41	6		6	20	21		20
NOTS4-38	179.0-180.5		110		46	6	38	4		6	21	23		20
NOTS4-39	180.5-183.8	10	330	3	96	20	90	12		19	48	56	8	45
NOTS4-40	183.8-189.2		180	1	67	12	49	10		11	30	34		29
NOTS4-41	189.2-192.5		430		50	21	39	8		8	22	24		19
NOTS4-42	192.5-194.0	20	380	3	110	25	92	12		21	54	67	10	47
NOTS4-43	194.0-202.5	20	430	3	100	29	92	24		25	53	92	15	49
NOTS4-44	202.5-221.5	10	330	3	81	20	88	18	2	20	43	72	11	37
NOTS4-45	221.5-227.8		310	2	92	15	80	18		18	46	57	10	41
NOTS4-46	227.8-240.3	10	380	3	97	25	87	29		25	50	75	13	46
NOTS4-47	240.3-243.9		330	2	78	15	66	11		14	34	38	7	32
NOTS4-48	243.9-250.5	10	280	3	98	22	91	12		19	46	68	10	41

Table 6 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS4-49	250.5-253.0		420	2	78	14	170	14		14	37	41	7	32
NOTS4-50	253.0-270.5		130		54	8	49	5		6	26	21		27
NOTS4-51	270.5-271.0	10	360	3	90	24	88	26		23	48	71	12	43
NOTS4-52	271.0-276.5		44		25	9	11	3			12	7		12
NOTS4-53	276.5-277.0		350	2	150	52	120	13	4	12	83	31	6	93
NOTS4-54	282.7-285.6		88		48	7	47	6		4	22	21	4	19
NOTS4-55	285.6-290.5	20	190	3	120	33	98	13	2	19	58	96	11	50
	Count	11	55	34	55	55	55	55	3	47	55	55	31	55
	Maximum	20	1300	3	150	52	170	29	4	25	83	96	15	93
	Minimum	10	44	1	22	4	10	3	2	4	10	7	4	11
	Average	14	238	2.1	68	14	65	11.4	2.7	13	33	36	7.8	31
	Median	<10	200	1	67	12	58	14	<2	11	33	31	5	31
	Std. Deviation	5.0	185	0.77	28	8.3	35	6.9	1.2	5.8	15	23	2.9	15
	Variance	25	34392	0.59	787	69	1206	48	1.3	33	223	534	8.2	210

Table 6 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS4-1	15.0-20.8	51	14	15	96	14	110	21	3	60	9.9		11.10	2.31
NOTS4-2	20.8-30.0	25	7	8	81	9	58	15	2	38	4.8		9.57	2.14
NOTS4-3	30.0-34.0	7		2	30		14	5		12	1.0		2.40	0.52
NOTS4-4	34.0-40.5	25	7	7	72	9	57	13	2	41	6.2	0.1	9.39	1.74
NOTS4-5	40.5-50.1	17	9	6	60	6	46	10	1	21	2.7		6.04	1.62
NOTS4-6	50.1-56.0	15	11	5	60	7	59	10	1	20	2.9	0.1	5.00	1.56
NOTS4-7	56.0-62.0	7	10	2	32	5	26	6		9	1.0		3.60	1.15
NOTS4-8	62.0-63.5	10	29	3	39	4	27	5		14	2.8	0.1	2.90	0.99
NOTS4-9	63.5-68.0	14	7	4	47	6	29	9	1	23	2.7		6.10	1.18
NOTS4-10	68.0-72.0	36	10	10	120	11	74	19	2	43	5.8	0.1	10.10	2.56
NOTS4-11	72.0-76.0	24	11	7	92	9	59	15	2	46	5.3		8.33	2.37
NOTS4-12	76.0-78.5	19	6	5	73	8	44	12	2	30	4.5		8.90	1.84
NOTS4-13	78.5-80.0	6			21		10	5		8	1.0		3.30	0.97
NOTS4-14	80.0-80.5	15		5	65	8	66	18	2	19	2.0		9.35	4.00
NOTS4-15	80.5-82.0	43	13	13	94	12	96	21	3	42	6.8	0.1	11.20	2.59
NOTS4-16	82.0-86.8	40	12	12	81	12	76	18	2	37	5.7	0.1	12.30	2.28
NOTS4-17	86.8-88.0	24	11	8	94	10	67	15	2	29	5.4	0.1	10.20	2.08
NOTS4-18	88.0-88.7	15		6	71	8	50	13	2	19	2.0		8.16	2.26
NOTS4-19	88.7-91.0	20	7	7	81	9	53	14	2	27	3.7		8.74	2.29
NOTS4-20	91.0-93.5	13	5	4	46	6	26	9	1	16	3.9		6.99	1.57
NOTS4-21	93.5-107.0	6	8	2	34		21	5		9	1.0		3.30	0.86
NOTS4-22	107.0-113.8	5	16	2	29		36	4		7	2.0			0.82
NOTS4-23	113.8-117.0	27	8	9	110	12	67	19	2	34	6.1		13.60	2.24
NOTS4-24	117.0-122.0	20	11	6	64	9	49	12	2	23	3.4		7.85	1.95
NOTS4-25	122.0-125.0	6		3	29	4	19	6		10	1.0		3.90	0.98
NOTS4-26	125.0-125.8	59	11	16	120	14	110	32	3	54	8.2	0.1	14.60	2.61
NOTS4-27	125.8-129.0	45	16	12	140	13	87	21	3	46	5.5	0.1	12.80	2.72
NOTS4-28	129.0-140.0	20	14	6	83	7	57	13	2	24	3.4	0.1	8.95	2.02
NOTS4-29	140.0-142.6	6			29		10	6		9	0.9		2.70	1.20
NOTS4-30	142.6-145.7	27	9	8	110	11	64	18	2	30	3.5	0.1	9.66	2.39
NOTS4-31	145.7-147.0	49	11	14	170	15	100	21	3	51	7.7	0.1	12.20	2.59
NOTS4-32	147.0-150.5	46	16	12	150	13	93	18	3	48	5.1	0.1	14.10	2.79
NOTS4-33	150.5-152.3	31	17	8	110	10	86	17	2	35	5.0	0.1	12.30	2.44
NOTS4-34	152.3-157.5	8		2	41	5	18	6		11	1.0		5.35	0.93
NOTS4-35	157.5-159.5	30	8	9	92	10	76	17	2	39	16.0	0.1	9.54	2.08
NOTS4-36	159.5-163.8	26	8	7	94	10	64	14	2	28	8.0	0.1	10.40	1.83
NOTS4-37	163.8-179.0	13	5	4	58	6	30	9	1	13	2.2		5.97	1.11
NOTS4-38	179.0-180.5	13		4	57	6	96	9	1	14	1.0		5.60	2.60
NOTS4-39	180.5-183.8	45	11	14	160	13	110	27	3	62	11.0	0.1	14.30	2.28
NOTS4-40	183.8-189.2	22	7	6	95	8	53	15	2	27	3.0	0.1	7.11	1.35
NOTS4-41	189.2-192.5	15	10	5	71	5	150	11	1	54	1.0		6.84	4.19
NOTS4-42	192.5-194.0	46	13	15	190	14	110	25	3	98	15.0	0.1	12.70	2.48
NOTS4-43	194.0-202.5	59	12	18	210	15	120	26	3	110	16.0	0.1	16.40	2.76
NOTS4-44	202.5-221.5	45	13	15	120	12	100	22	3	85	11.0	0.1	13.20	2.64
NOTS4-45	221.5-227.8	34	11	13	150	12	76	23	3	73	6.6	0.1	13.60	2.63
NOTS4-46	227.8-240.3	54	13	17	160	14	100	26	3	96	14.0	0.1	15.30	2.91
NOTS4-47	240.3-243.9	28	6	9	110	9	120	17	2	67	3.1	0.1	12.50	3.10
NOTS4-48	243.9-250.5	46	13	14	150	12	89	26	3	79	12.0	0.1	13.10	2.39

Table 6 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS4-49	250.5-253.0	29	6	9	130	9	220	16	2	59	3.5	0.1	10.60	3.03
NOTS4-50	253.0-270.5	11	11	4	71	5	33	18	2	44	2.1	0.1	4.89	1.40
NOTS4-51	270.5-271.0	51	13	16	160	13	100	23	3	110	13.0	0.1	14.10	2.73
NOTS4-52	271.0-276.5	3			19		6	4		37	0.6		2.40	0.63
NOTS4-53	276.5-277.0	43	43	10	97	8	160	41	4	80	7.0	0.1	7.31	2.20
NOTS4-54	282.7-285.6	13		4	47		230	12	1	45	0.9		6.47	3.37
NOTS4-55	285.6-290.5	59	12	14	100	11	98	26	3	80	15.0	0.1	13.20	2.69
	Count	55	45	52	55	48	55	55	45	55	55	30	54	55
	Maximum	59	43	18	210	15	230	41	4	110	16	0.1	16.4	4.19
	Minimum	3	5	2	19	4	6	4	1	7	0.6	0.1	2.40	0.52
	Average	27	12	8.4	89	9.5	73	16	2.2	41	5.4	0.1	9.08	2.09
	Median	24	10	7	83	9	66	15	2	37	3.9	0.1	9.35	2.26
	Std. Deviation	17	6.3	4.6	46	3.1	47	7.8	0.76	27	4.4	0.0	3.84	0.81
	Variance	273	40	21	2108	9.9	2186	61	0.57	747	19.1	0.0	14.76	0.65

Table 7: Analytical results for drill core NOTS 5. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS5-1	15.0-21.9	sandstone	6.1	1.70	2.70	1.20	1.40	0.33	0.020	0.34	970
NOTS5-2	21.9-23.0	sandstone	4.3	0.12	0.57	0.77	0.37	0.26	0.010	0.23	44
NOTS5-3	23.0-27.2	sandstone	5.9	1.00	2.90	1.10	1.00	0.27	0.020	0.30	540
NOTS5-4	27.2-29.0	conglomerate	6.1	1.00	3.00	1.10	1.00	0.27	0.020	0.30	530
NOTS5-5	29.0-33.0	sandstone	3.9	3.50	1.50	0.56	2.20	0.18	0.020	0.18	1500
NOTS5-6	33.0-36.7	sandstone	2.9	1.20	1.10	0.41	0.86	0.16	0.010	0.16	530
NOTS5-7	36.7-38.7	mudstone	8.9	0.29	5.70	1.60	1.10	0.24	0.030	0.43	350
NOTS5-8	38.7-39.0	sandstone	3.1	15.00	1.50	0.63	8.00	0.15	0.010	0.11	7700
NOTS5-9	39.0-42.0	sandstone	5.1	0.41	2.30	0.96	0.56	0.32	0.020	0.31	270
NOTS5-10	42.0-45.7	sandstone	4.5	0.31	1.80	0.78	0.46	0.33	0.010	0.28	180
NOTS5-11	45.7-51.0	sandstone	2.8	0.54	1.90	0.45	0.44	0.28	0.020	0.18	310
NOTS5-12	51.0-57.8	sandstone	1.4	0.49	0.28	0.20	0.31	0.23	0.006	0.08	250
NOTS5-13	57.8-59.8	sandstone	2.3	0.15	0.24	0.40	0.13	0.44	0.007	0.08	53
NOTS5-14	59.8-64.4	mudstone	9.4	0.27	5.60	2.00	1.00	0.26	0.040	0.44	310
NOTS5-15	64.4-65.6	sandstone	5.5	0.90	1.90	1.20	0.90	0.47	0.040	0.30	430
NOTS5-16	65.6-67.7	sandstone	4.4	0.09	1.30	0.90	0.41	0.41	0.010	0.26	74
NOTS5-17	67.7-69.2	sandstone	3.5	0.08	0.49	0.76	0.31	0.32	0.010	0.19	41
NOTS5-18	69.2-75.2	sandstone	6.5	2.00	3.50	1.30	1.70	0.41	0.030	0.35	1100
NOTS5-19	75.2-78.0	sandstone	6.5	0.49	2.50	1.30	0.86	0.54	0.040	0.36	300
NOTS5-20	78.0-82.0	sandstone	8.5	0.62	4.90	1.60	1.30	0.51	0.050	0.41	390
NOTS5-21	82.0-86.8	mudstone	8.9	2.00	4.90	1.40	2.70	0.58	0.050	0.42	770
NOTS5-22	86.8-91.0	siltstone	8.2	3.90	4.40	1.00	3.40	0.60	0.050	0.38	1300
NOTS5-23	91.0-96.0	mudstone	8.7	2.20	4.70	1.10	2.30	0.60	0.040	0.41	640
NOTS5-24	96.0-101.0	mudstone	8.5	1.30	4.70	1.00	1.60	0.57	0.030	0.43	490
NOTS5-25	101.0-106.0	mudstone	8.7	1.10	4.50	1.10	1.40	0.57	0.030	0.42	470
NOTS5-26	106.0-111.0	mudstone	9.3	0.25	5.00	1.30	0.92	0.51	0.030	0.42	170
NOTS5-27	111.0-116.0	mudstone	8.5	0.59	4.60	1.30	1.10	0.55	0.030	0.40	300
NOTS5-28	116.0-121.0	mudstone	8.7	0.77	4.90	1.70	1.30	0.55	0.040	0.40	410
NOTS5-29	121.0-126.0	mudstone	8.7	0.74	5.00	1.30	1.30	0.62	0.040	0.40	400
NOTS5-30	126.0-132.0	mudstone	8.7	0.79	4.90	1.50	1.20	0.57	0.030	0.42	460
NOTS5-31	132.0-137.0	sandstone	6.2	0.44	2.70	1.30	0.74	0.62	0.030	0.34	300
NOTS5-32	137.0-138.5	sandstone	4.8	0.11	0.83	0.91	0.44	0.62	0.020	0.28	77
NOTS5-33	138.5-141.5	sandstone	4.9	0.14	2.00	0.95	0.47	0.58	0.030	0.28	100
NOTS5-34	141.5-149.7	conglomerate	3.4	3.00	1.40	0.71	1.80	0.50	0.030	0.13	1400
NOTS5-35	149.7-151.6	sandstone	3.0	0.55	0.33	0.62	0.36	0.51	0.010	0.13	190
NOTS5-36	151.6-157.0	mudstone	8.4	0.82	5.00	1.40	1.40	0.63	0.040	0.40	540
NOTS5-37	157.0-163.0	mudstone	5.9	0.80	3.50	1.00	1.10	0.52	0.030	0.30	440
NOTS5-38	163.0-168.5	mudstone	7.8	2.60	4.40	1.20	2.30	0.67	0.040	0.38	1100
NOTS5-39	168.5-170.0	sandstone	6.2	0.90	3.50	1.20	1.00	0.62	0.020	0.35	510
NOTS5-40	170.0-171.5	mudst. & sandst.	7.0	3.40	3.70	1.20	2.50	0.59	0.020	0.37	1800
NOTS5-41	171.5-174.0	sandstone	3.5	0.17	0.60	0.75	0.34	0.61	0.010	0.22	83
NOTS5-42	174.0-179.0	sandstone	3.3	0.13	0.89	0.71	0.25	0.68	0.010	0.14	47
NOTS5-43	179.0-184.0	sandstone	3.3	0.39	1.30	0.68	0.41	0.60	0.010	0.15	180
NOTS5-44	184.0-189.0	sandstone	2.9	0.46	0.76	0.49	0.38	0.74	0.010	0.13	190
NOTS5-45	189.0-194.0	sandstone	2.2	1.60	0.58	0.34	0.92	0.62	0.010	0.10	710
NOTS5-46	194.0-198.4	sandstone	2.2	0.92	0.41	0.46	0.53	0.62	0.010	0.07	390
NOTS5-47	198.4-199.8	conglomerate	1.8	5.70	1.20	0.42	3.10	0.34	0.130	0.07	2500
NOTS5-48	199.8-201.3	mudstone	8.4	0.59	4.90	2.00	1.10	0.57	0.060	0.40	400

Table 7 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS5-49	201.3-202.7	sandstone	1.6	0.50	0.11	0.53	0.25	0.47	0.009	0.05	200
NOTS5-50	202.7-208.0	mudstone	8.9	0.37	5.40	1.90	1.10	0.55	0.050	0.42	260
NOTS5-51	208.0-213.0	mudstone	8.6	0.49	5.20	1.80	1.30	0.64	0.050	0.37	250
NOTS5-52	213.0-218.0	mudstone	8.2	1.60	4.80	1.70	1.70	0.62	0.060	0.34	560
NOTS5-53	218.0-223.0	mudstone	7.2	2.80	4.20	1.30	2.50	0.69	0.060	0.34	1100
NOTS5-54	223.0-227.8	mudstone	7.9	0.55	4.60	1.40	1.30	0.68	0.040	0.36	290
NOTS5-55	227.8-234.0	sandstone	7.2	0.54	4.30	1.60	1.00	0.59	0.040	0.32	320
NOTS5-56	234.0-235.6	conglomerate	6.3	6.60	3.40	1.20	4.10	0.45	0.030	0.26	2600
NOTS5-57	235.6-238.0	mudstone	7.7	1.70	4.60	1.50	1.70	0.52	0.030	0.34	900
	Count		57	57	57	57	57	57	57	57	57
	Maximum		9.4	15	5.7	2.00	8.00	0.74	0.13	0.44	7700
	Minimum		1.4	0.08	0.11	0.20	0.13	0.15	0.01	0.05	41
	Average		5.9	1.43	2.95	1.07	1.33	0.49	0.030	0.29	679
	Median		6.2	0.74	3.00	1.10	1.10	0.55	0.030	0.32	400
	Std. Deviation		2.5	2.26	1.81	0.45	1.23	0.15	0.020	0.12	1093
	Variance		6.1	5.12	3.26	0.20	1.52	0.024	0.00042	0.014	1194072

Table 7 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS5-1	15.0-21.9		220	2	75	15	79	17		15	39	48	7	38
NOTS5-2	21.9-23.0		140	1	54	10	41	25		11	26	33	6	26
NOTS5-3	23.0-27.2		240	2	71	16	76	16		17	40	49	7	33
NOTS5-4	27.2-29.0		240	2	71	16	71	16		16	39	50	7	36
NOTS5-5	29.0-33.0		130	1	70	12	47	8		10	52	32		45
NOTS5-6	33.0-36.7		510		51	9	39	6		7	36	26		31
NOTS5-7	36.7-38.7	10	260	3	86	22	93	33		22	53	71	9	47
NOTS5-8	38.7-39.0		120	1	42	14	45	14		15	21	23		30
NOTS5-9	39.0-42.0		190	2	78	12	62	11		12	42	38	8	37
NOTS5-10	42.0-45.7		150	1	75	9	48	9		11	38	35	4	34
NOTS5-11	45.7-51.0		100		52	7	33	5		8	25	22	4	24
NOTS5-12	51.0-57.8		59		24	6	7	3			11	10		12
NOTS5-13	57.8-59.8		100		26	9	9	7			13	12		12
NOTS5-14	59.8-64.4		320	3	89	22	90	30		24	48	72	11	43
NOTS5-15	64.4-65.6		350	2	69	14	54	8		14	35	43		36
NOTS5-16	65.6-67.7		450	1	59	12	49	5		11	28	33	8	25
NOTS5-17	67.7-69.2		140	1	44	8	23	5		9	21	28	5	20
NOTS5-18	69.2-75.2		240	2	76	16	70	17		18	39	55	8	37
NOTS5-19	75.2-78.0		410	2	78	15	65	17		16	39	47	8	34
NOTS5-20	78.0-82.0		220	3	83	19	89	22		20	45	66	11	40
NOTS5-21	82.0-86.8		480	3	76	27	99	27		24	42	78	9	38
NOTS5-22	86.8-91.0		130	3	67	21	93	26		21	37	71	8	34
NOTS5-23	91.0-96.0		300	3	69	19	94	18		22	40	66	9	34
NOTS5-24	96.0-101.0		130	3	79	16	97	19		20	39	76	11	36
NOTS5-25	101.0-106.0		320	3	65	17	94	16		22	36	78	10	33
NOTS5-26	106.0-111.0		220	3	95	19	92	17		23	50	96	12	48
NOTS5-27	111.0-116.0		190	3	82	18	92	16		21	44	74	9	42
NOTS5-28	116.0-121.0		300	3	89	20	94	19		22	48	69	9	44
NOTS5-29	121.0-126.0		190	3	90	20	97	25		22	47	71	10	43
NOTS5-30	126.0-132.0		220	3	93	18	97	28		22	47	70	11	45
NOTS5-31	132.0-137.0		220	2	73	15	62	20		15	37	48	9	34
NOTS5-32	137.0-138.5		190	2	59	12	41	15		12	30	37	8	31
NOTS5-33	138.5-141.5		640	2	60	14	51	6		12	32	41	7	27
NOTS5-34	141.5-149.7		650		48	11	27	5		9	29	22		29
NOTS5-35	149.7-151.6		1000		35	9	16	3		8	20	19		18
NOTS5-36	151.6-157.0		240	3	94	19	91	29		22	52	66	10	47
NOTS5-37	157.0-163.0		950	2	69	15	63	20		15	34	45	8	34
NOTS5-38	163.0-168.5		540	2	76	18	83	32		21	41	64	8	40
NOTS5-39	168.5-170.0		200	2	74	15	79	15		15	39	47	8	33
NOTS5-40	170.0-171.5		150	2	67	15	80	30		19	35	54	7	35
NOTS5-41	171.5-174.0		370		55	9	39	9		10	26	26	5	23
NOTS5-42	174.0-179.0		320		37	9	26	3		8	17	21		13
NOTS5-43	179.0-184.0		260		39	13	30	5		8	21	23		17
NOTS5-44	184.0-189.0		460		31	8	21	4		7	16	16		12
NOTS5-45	189.0-194.0		710		24	7	15	3		6	14	11		11
NOTS5-46	194.0-198.4		240		24	12	14	4		6	14	11		12
NOTS5-47	198.4-199.8		1700		58	9	23	6	2	10	33	12		40
NOTS5-48	199.8-201.3	20	310	3	110	25	90	23	2	25	59	83	13	51

Table 7 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS5-49	201.3-202.7		1600		13	10	8	2			7	10		6
NOTS5-50	202.7-208.0	10	250	3	93	22	87	31		24	49	74	16	44
NOTS5-51	208.0-213.0	20	210	3	85	20	83	31		24	44	66	14	39
NOTS5-52	213.0-218.0		210	3	82	20	94	24		23	42	67	10	39
NOTS5-53	218.0-223.0		150	2	93	19	83	27		21	42	61	10	40
NOTS5-54	223.0-227.8	10	170	3	83	20	85	28		22	43	67	10	40
NOTS5-55	227.8-234.0	10	240	2	90	21	85	18		20	42	61	10	38
NOTS5-56	234.0-235.6	10	170	2	110	19	70	24	3	21	66	61	8	60
NOTS5-57	235.6-238.0	20	200	2	93	21	86	28		22	50	75	11	42
	Count	8	57	43	57	57	57	57	3	54	57	57	42	57
	Maximum	20	1700	3	110	27	99	33	3	25	66	96	16	60
	Minimum	10	59	1	13	6	7	2	2	6	7	10	4	6
	Average	14	341	2.3	68	15	63	16	2.3	16	36	48	8.9	33
	Median	<10	240	2	71	15	70	17	<2	16	39	48	8	35
	Std. Deviation	5.2	317	0.71	23	5.1	29	9.6	0.58	6.0	13	23	2.5	12
	Variance	27	100552	0.50	521	26	864	92	0.33	36	161	538	6.0	132

Table 7 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS5-1	15.0-21.9	31	10	11	140	11	80	21	3	36	5.9	0.1	12.50	2.16
NOTS5-2	21.9-23.0	26		7	96	8	150	13	2	27	2.4	0.2	6.78	2.80
NOTS5-3	23.0-27.2	33	9	11	140	11	77	19	2	30	5.2		10.60	2.49
NOTS5-4	27.2-29.0	36	7	11	140	12	85	19	2	32	5.9		8.93	2.22
NOTS5-5	29.0-33.0	28	6	7	100	8	36	19	2	13	2.8		6.19	1.40
NOTS5-6	33.0-36.7	17		5	80	5	34	12	1	11	2.4		5.38	1.19
NOTS5-7	36.7-38.7	58	17	16	180	14	120	20	3	51	14.0		14.00	2.75
NOTS5-8	38.7-39.0	15	6	7	110	7	34	28	2	10	6.8		3.90	1.36
NOTS5-9	39.0-42.0	29	5	8	13	12	57	17	2	25	7.4		12.60	2.87
NOTS5-10	42.0-45.7	25	4	7	110	10	40	17	2	24	4.4		11.40	2.82
NOTS5-11	45.7-51.0	14	7	4	79	7	45	10	1	12	2.7		6.60	1.19
NOTS5-12	51.0-57.8	6			43		11	5		4	0.9		3.10	0.45
NOTS5-13	57.8-59.8	8			64		33	6		7	0.9	0.1	3.81	0.79
NOTS5-14	59.8-64.4	52	15	17	200	15	110	22	3	60	12.0		14.30	2.64
NOTS5-15	64.4-65.6	29	5	9	150	11	70	30	3	32	4.0		9.91	2.40
NOTS5-16	65.6-67.7	24	7	7	120	7	46	13	2	24	2.5		7.65	1.83
NOTS5-17	67.7-69.2	17		6	110	5	210	10	1	20	2.0	0.5		7.81
NOTS5-18	69.2-75.2	35	12	11	160	12	73	20	3	36	7.1		12.30	2.38
NOTS5-19	75.2-78.0	35	8	11	160	11	64	19	3	37	5.0		12.20	2.38
NOTS5-20	78.0-82.0	46	15	15	180	14	97	20	3	54	10.0		12.10	2.98
NOTS5-21	82.0-86.8	54	11	15	190	14	99	20	3	60	7.8		14.70	3.03
NOTS5-22	86.8-91.0	56	14	14	160	11	91	20	3	50	6.5		11.40	2.74
NOTS5-23	91.0-96.0	48	11	15	150	13	90	20	3	53	7.6		12.30	2.86
NOTS5-24	96.0-101.0	49	17	15	130	12	160	21	3	46	9.1		14.30	3.12
NOTS5-25	101.0-106.0	46	15	16	140	13	100	20	3	49	9.3		15.50	3.05
NOTS5-26	106.0-111.0	50	17	16	160	14	120	23	3	55	12.0	0.1	14.20	3.26
NOTS5-27	111.0-116.0	46	13	15	140	14	94	22	3	52	9.1	0.1	16.10	2.76
NOTS5-28	116.0-121.0	48	15	16	170	13	110	25	3	59	11.0	0.2	14.20	3.06
NOTS5-29	121.0-126.0	49	15	16	160	14	120	25	3	56	11.0		13.50	3.04
NOTS5-30	126.0-132.0	56	17	16	150	13	110	23	3	54	11.0		14.80	2.75
NOTS5-31	132.0-137.0	34	12	10	140	10	74	18	3	42	5.2		11.20	2.18
NOTS5-32	137.0-138.5	26	12	7	120	10	570	14	2	32	2.1	5.0		9.59
NOTS5-33	138.5-141.5	27	8	8	120	9	56	15	2	32	3.2		9.18	1.80
NOTS5-34	141.5-149.7	15	7	5	110	4	54	17	2	11	2.0		5.35	0.96
NOTS5-35	149.7-151.6	12	11	3	100	5	160	8		13	1.0	1.8		5.27
NOTS5-36	151.6-157.0	47	16	14	150	13	99	25	3	52	11.0		13.10	2.66
NOTS5-37	157.0-163.0	32	11	10	120	8	74	17	2	40	8.5		13.20	2.59
NOTS5-38	163.0-168.5	41	13	13	150	12	91	22	3	49	9.4		12.20	2.29
NOTS5-39	168.5-170.0	32	10	10	120	11	98	19	2	35	6.2	0.1	11.50	3.00
NOTS5-40	170.0-171.5	35	12	11	120	12	76	22	3	35	7.8		11.20	2.19
NOTS5-41	171.5-174.0	17		6	91	8	79	13	2	50	2.1	0.1	8.85	5.20
NOTS5-42	174.0-179.0	15	5	4	91		22	7		45	2.0		5.51	0.88
NOTS5-43	179.0-184.0	15	6	5	90	5	28	8		48	2.3		4.95	1.07
NOTS5-44	184.0-189.0	11	5	4	92		20	7		45	2.0		3.30	0.98
NOTS5-45	189.0-194.0	7	4	4	79		22	8		38	1.0		3.50	0.69
NOTS5-46	194.0-198.4	6		2	76		22	6		37	1.0		2.70	0.62
NOTS5-47	198.4-199.8	7	9	5	13	5	120	38	3	36	2.0	0.9	5.00	3.16
NOTS5-48	199.8-201.3	50	11	16	220	15	110	28	3	110	13.0	0.1	17.30	2.67

Table 7 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS5-49	201.3-202.7	3	4		99		85	5		36	0.4	0.1		6.62
NOTS5-50	202.7-208.0	50	16	17	190	15	120	27	3	97	12.0	0.9	13.10	3.21
NOTS5-51	208.0-213.0	49	12	16	170	13	100	22	3	98	11.0		13.20	2.82
NOTS5-52	213.0-218.0	45	13	15	160	13	99	23	3	93	9.9		13.10	2.82
NOTS5-53	218.0-223.0	41	12	13	150	12	84	24	3	80	8.4		12.40	2.78
NOTS5-54	223.0-227.8	45	14	15	150	14	94	21	3	87	10.0		14.20	2.83
NOTS5-55	227.8-234.0	41	16	13	150	13	90	21	3	84	12.0	0.1	12.60	2.44
NOTS5-56	234.0-235.6	37	12	12	140	11	80	35	3	70	14.0		10.00	2.16
NOTS5-57	235.6-238.0	45	17	14	160	12	94	23	3	80	16.0		9.97	2.65
	Count	57	50	54	57	50	57	57	48	57	57	16	53	57
	Maximum	58	17	17	220	15	570	38	3	110	16	5.0	17.3	9.59
	Minimum	3	4	2	13	4	11	5	1	4	0.4	0.1	2.70	0.45
	Average	32	11	11	128	11	91	18	2.6	45	6.6	0.65	10.41	2.68
	Median	34	11	11	140	11	85	20	3	42	6.5	<0.1	11.40	2.66
	Std. Deviation	16	4.1	4.5	42	3.1	75	7.3	0.61	24	4.2	1.3	3.94	1.60
	Variance	249	16.9	20.3	1795	9.6	5693	53	0.38	596	17.9	1.6	15.5	2.57

Table 8: Analytical results for drill core NOTS 6. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS6-1	20.0-22.0	mudstone	5.20	6.10	2.90	1.40	3.50	0.44	0.030	0.24	1100
NOTS6-2	22.0-25.1	sandstone	2.00	7.20	0.79	0.57	3.30	0.27	0.010	0.11	1200
NOTS6-3	25.1-30.0	claystone-red	7.20	2.60	4.00	1.90	2.30	0.55	0.040	0.37	680
NOTS6-4	30.0-35.0	sandstone	4.10	0.52	1.90	1.10	0.70	0.51	0.030	0.28	150
NOTS6-5	35.0-40.0	conglomerate	3.50	2.60	1.80	0.90	1.80	0.38	0.020	0.21	620
NOTS6-6	40.0-47.4	sandstone	2.90	1.20	1.80	0.71	0.91	0.36	0.009	0.19	310
NOTS6-7	47.4-48.4	conglomerate	3.00	13.00	1.60	0.74	6.00	0.28	0.040	0.14	2400
NOTS6-8	48.4-49.4	mudstone	7.40	0.50	5.50	1.60	0.89	0.36	0.020	0.38	400
NOTS6-9	49.4-55.0	sandstone	2.00	0.19	1.10	0.46	0.17	0.29	0.030	0.17	110
NOTS6-10	55.0-60.0	sandstone	1.30	3.10	0.49	0.16	0.22	0.14	0.008	0.06	390
NOTS6-11	60.0-63.0	sandstone	1.00	4.80	0.50	0.23	2.50	0.12	0.005	0.06	1200
NOTS6-12	63.0-66.7	sandstone	1.30	2.90	0.77	0.33	1.00	0.19	0.030	0.10	510
NOTS6-13	66.7-67.3	conglomerate	1.10	6.60	1.40	0.27	3.10	0.18	0.010	0.07	1500
NOTS6-14	67.3-70.5	mudstone	7.40	0.71	3.70	2.00	1.20	0.42	0.040	0.43	240
NOTS6-15	70.5-74.5	mudstone	6.60	0.40	2.90	1.70	0.89	0.56	0.030	0.40	140
NOTS6-16	74.5-76.0	sandstone	2.30	2.30	0.86	0.63	0.86	0.28	0.010	0.15	340
NOTS6-17	76.0-78.0	conglomerate	4.80	9.70	3.00	1.30	2.30	0.43	0.030	0.24	1300
NOTS6-18	87.0-90.0	mudstone	6.60	6.20	3.00	1.60	3.00	0.40	0.020	0.32	1600
NOTS6-19	90.0-94.5	siltstone	6.10	1.30	2.80	1.40	0.75	0.52	0.020	0.40	270
NOTS6-20	94.5-100.0	sandstone	0.85	0.10	0.75	0.23	0.08	0.14		0.09	49
NOTS6-21	100.0-105.0	sandstone	0.63	0.12	0.38	0.17	0.06	0.10		0.07	29
NOTS6-22	105.0-110.0	sandstone	2.00	6.20	1.10	0.46	3.10	0.22	0.010	0.12	1800
NOTS6-23	110.0-115.0	sandstone	0.88	1.80	0.51	0.22	0.48	0.13		0.08	380
NOTS6-24	115.0-120.0	sandstone	2.80	0.85	2.00	0.67	0.30	0.25	0.020	0.17	210
NOTS6-25	120.0-125.8	sandstone	2.20	6.80	2.40	0.53	1.70	0.19	0.020	0.12	1500
NOTS6-26	125.8-130.0	sandstone	0.60	0.52	0.38	0.16	0.06	0.10		0.07	67
NOTS6-27	130.0-131.8	sandstone	0.41	0.53	0.24	0.11	0.05	0.05		0.04	68
NOTS6-28	135.0-139.0	sandstone	0.71	2.50	0.58	0.18	0.07	0.09		0.06	300
NOTS6-29	142.0-144.2	sandstone	3.00	4.20	2.00	0.69	0.35	0.26	0.020	0.19	370
NOTS6-30	150.0-156.0	sandstone	1.50	0.96	0.58	0.34	0.18	0.18	0.006	0.14	82
NOTS6-31	156.0-157.5	conglomerate	3.60	8.10	1.70	0.77	4.80	0.22	0.020	0.18	3500
NOTS6-32	157.5-160.6	sandstone	4.30	5.90	2.10	1.00	3.70	0.40	0.030	0.22	2700
NOTS6-33	162.0-170.0	sandstone	3.10	0.97	1.90	0.67	0.37	0.27	0.010	0.20	330
NOTS6-34	170.0-181.0	sandstone	2.40	0.74	0.92	0.53	0.54	0.11	0.010	0.16	340
NOTS6-35	181.0-183.5	sandstone	1.20	8.80	0.75	0.26	4.90	0.09	0.030	0.07	4200
NOTS6-36	183.5-191.3	sandstone	1.50	1.50	1.20	0.31	0.39	0.15	0.010	0.10	390
NOTS6-37	191.3-195.0	sandstone	1.70	1.00	0.94	0.33	0.18	0.18	0.008	0.14	99
NOTS6-38	197.0-201.4	sandstone	0.28	5.70	0.43	0.07	3.20	0.05		0.04	2600
NOTS6-39	203.0-210.0	sandstone	0.65	0.16	0.32	0.12	0.10	0.06		0.08	71
NOTS6-40	210.0-213.5	sandstone	1.50	3.90	1.10	0.30	2.20	0.09	0.020	0.08	1800
NOTS6-41	213.5-219.5	sandstone	2.20	1.80	1.00	0.46	1.10	0.17	0.010	0.16	800
NOTS6-42	219.5-226.8	sandstone	1.50	2.60	1.70	0.34	1.60	0.15	0.010	0.12	1200
NOTS6-43	230.0-235.0	sandstone	3.10	0.40	1.40	0.68	0.38	0.36	0.010	0.24	290
NOTS6-44	235.0-240.0	sandstone	0.96	2.10	0.87	0.21	1.10	0.14	0.040	0.09	850
NOTS6-45	240.0-249.0	sandstone	1.30	6.40	1.10	0.25	3.70	0.11	0.010	0.08	2800
NOTS6-46	250.0-259.0	mudstone	8.20	0.97	4.30	1.50	2.70	0.41	0.050	0.43	700
NOTS6-47	259.0-269.0	sandstone	4.20	1.10	2.30	0.95	0.95	0.37	0.020	0.28	530
NOTS6-48	269.0-274.5	sandstone	2.80	0.53	2.00	0.52	0.47	0.34	0.010	0.21	310

Table 8 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS6-49	274.5-279.0	sandstone	0.75	0.54	0.33	0.12	0.28	0.13		0.08	210
NOTS6-50	279.0-281.1	sandstone	1.90	7.60	2.40	0.39	3.80	0.12	0.030	0.10	3000
NOTS6-51	281.1-284.6	sandstone	7.70	3.00	4.40	1.80	3.00	0.41	0.040	0.40	1500
NOTS6-52	284.6-293.6	sandstone	4.40	0.59	2.00	1.00	0.66	0.41	0.020	0.28	310
NOTS6-53	293.6-299.4	sandstone	2.50	0.38	1.20	0.53	0.29	0.26	0.010	0.19	130
NOTS6-54	299.4-301.6	sandstone	1.60	0.05	0.55	0.32	0.17	0.16	0.007	0.13	59
NOTS6-55	301.6-305.2	sandstone	3.60	2.00	2.20	0.77	1.40	0.30	0.030	0.24	1000
NOTS6-56	305.2-311.9	sandstone	3.10	0.18	1.70	0.68	0.38	0.24	0.010	0.21	120
NOTS6-57	311.9-314.3	sandstone	4.40	0.19	3.30	0.94	0.53	0.37	0.020	0.28	250
NOTS6-58	315.0-320.0	sandstone	5.80	0.78	2.90	1.30	1.00	0.50	0.030	0.35	470
NOTS6-59	320.0-325.0	sandstone	3.20	0.32	2.00	0.66	0.42	0.43	0.030	0.27	230
NOTS6-60	325.0-328.0	sandstone	2.60	0.40	1.70	0.57	0.43	0.33	0.040	0.22	240
NOTS6-61	329.0-330.9	conglomerate	1.90	2.80	5.10	0.38	1.70	0.24	0.040	0.13	1600
NOTS6-62	330.9-336.2	sandstone	2.00	0.38	1.00	0.36	0.17	0.30	0.100	0.21	93
NOTS6-63	336.2-342.0	sandstone	1.60	0.07	0.75	0.32	0.15	0.18	0.008	0.15	46
NOTS6-64	342.0-348.0	sandstone	0.68	0.22	0.28	0.12	0.07	0.09	0.006	0.07	30
NOTS6-65	348.0-353.5	conglomerate	2.10	5.10	2.20	0.42	2.90	0.16	0.020	0.11	2500
NOTS6-66	353.5-356.5	sandstone	2.90	0.45	1.60	0.59	0.54	0.25	0.020	0.18	220
NOTS6-67	356.5-357.0	sandstone	3.70	7.10	2.30	0.77	4.50	0.51	0.020	0.20	3500
NOTS6-68	357.0-357.5	sandstone	3.90	4.30	0.83	0.81	2.80	0.79	0.020	0.29	2100
NOTS6-69	357.5-362.5	sandstone	7.00	2.40	3.70	1.80	2.60	0.73	0.050	0.38	1300
NOTS6-70	362.5-367.5	sandstone	6.40	3.00	3.60	1.80	2.50	0.60	0.050	0.34	1500
NOTS6-71	367.5-376.5	sandstone	1.70	3.40	0.80	0.33	1.00	0.28	0.010	0.12	810
NOTS6-72	376.5-378.5	sandstone	7.80	0.80	5.30	1.80	1.60	0.57	0.030	0.38	550
NOTS6-73	380.0-384.2	siltstone	5.70	1.10	3.00	1.30	1.30	0.58	0.030	0.40	610
NOTS6-74	384.2-390.0	mudstone	7.60	4.30	4.20	1.30	4.30	0.56	0.040	0.36	2100
NOTS6-75	390.0-393.0	mudstone	7.90	5.40	4.20	1.40	4.30	0.48	0.030	0.36	2300
NOTS6-76	395.0-400.3	mudst. & siltst.	6.00	0.61	2.70	1.20	0.79	0.50	0.020	0.35	250
NOTS6-77	402.0-410.5	siltstone	5.70	0.24	3.40	1.10	0.61	0.53	0.070	0.34	140
NOTS6-78	404.6	sandstone	5.70	0.13	0.90	1.10	0.59	0.51	0.020	0.38	49
NOTS6-79	410.5-414.4	sandstone	4.70	1.70	2.90	0.92	1.60	0.38	0.060	0.28	840
NOTS6-80	418.0-420.0	sandstone	3.10	0.58	1.20	0.48	0.52	0.56	0.020	0.24	300
NOTS6-81	420.0-427.6	sandstone	2.30	0.83	2.90	0.40	0.49	0.37	0.040	0.21	430
NOTS6-82	427.6-428.8	conglomerate	2.50	11.00	6.00	0.47	6.30	0.26	0.050	0.12	5600
NOTS6-83	428.8-434.0	sandstone	2.60	0.31	1.50	0.43	0.24	0.27	0.010	0.17	110
NOTS6-84	434.0-436.0	siltstone	3.90	0.09	2.60	0.71	0.34	0.43	0.020	0.28	130
NOTS6-85	436.0-440.7	mudst. & siltst.	3.20	0.10	1.30	0.57	0.34	0.38	0.010	0.23	65
NOTS6-86	440.7-441.4	conglomerate	2.60	5.00	9.20	0.50	2.80	0.27	0.040	0.15	2900
NOTS6-87	441.4-445.0	mudst. & siltst.	4.10	0.29	4.40	0.80	0.55	0.51	0.030	0.26	320
NOTS6-88	445.0-450.0	sandstone	3.30	8.70	4.10	0.69	5.00	0.39	0.020	0.17	4000
NOTS6-89	450.0-460.0	sandstone	1.20	1.00	9.00	0.20	0.41	0.15	0.008	0.10	330
NOTS6-90	460.0-466.3	sandstone	0.61	0.28	0.32	0.10	0.19	0.06	0.006	0.05	140
NOTS6-91	466.3-474.5	sandstone	1.00	2.80	3.80	0.18	1.70	0.10	0.020	0.07	1400
NOTS6-92	474.5-479.0	sandstone	1.30	2.40	0.67	0.19	1.40	0.21	0.006	0.10	1100
NOTS6-93	479.0-485.0	sandstone	0.87	0.10	1.80	0.12	0.09	0.11	0.006	0.09	160
NOTS6-94	485.0-490.0	sandstone	0.72	0.67	1.20	0.11	0.41	0.09	0.006	0.08	390
NOTS6-95	490.0-494.6	sandstone	0.86	0.81	3.20	0.14	0.47	0.11	0.030	0.08	450
NOTS6-96	495.0-496.8	sandstone	0.79	4.30	0.67	0.11	2.30	0.14		0.07	2000

Table 8 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS6-97	496.8-501.5	sandstone	1.70	0.09	1.10	0.26	0.15	0.21	0.010	0.13	69
NOTS6-98	501.5-502.8	conglomerate	3.40	8.20	0.72	0.59	4.20	0.33	0.020	0.18	3100
NOTS6-99	502.8-506.0	mudstone	9.40	1.00	6.30	1.70	1.80	0.64	0.040	0.46	630
NOTS6-100	506.0-510.0	mudstone	8.50	2.00	5.00	1.10	2.60	0.81	0.030	0.42	930
NOTS6-101	510.0-515.0	mudstone	6.80	3.60	3.60	1.30	2.60	0.59	0.020	0.37	1700
NOTS6-102	515.0-524.0	mudstone	7.70	0.24	3.70	1.50	0.85	0.64	0.040	0.45	140
NOTS6-103	524.0-530.0	mudstone	8.60	0.48	4.80	1.20	1.60	0.75	0.060	0.42	210
NOTS6-104	530.0-538.6	mudstone	7.10	4.80	4.00	1.10	3.70	0.72	0.020	0.34	2200
NOTS6-105	538.6-539.0	mudstone	4.90	8.60	2.30	0.92	5.00	0.45	0.010	0.23	3700
NOTS6-106	539.0-543.2	siltstone	7.70	3.30	3.00	1.50	2.40	0.55	0.020	0.38	1500
NOTS6-107	555.0-558.3	sandstone	2.00	0.08	0.76	0.30	0.16	0.29	0.010	0.21	41
NOTS6-108	558.3-560.7	sandstone	2.10	6.10	0.30	0.33	3.50	0.25	0.010	0.12	2500
NOTS6-109	560.7-566.5	mudstone	9.10	0.91	5.60	1.70	1.40	0.57	0.040	0.43	460
NOTS6-110	566.5-567.4	mudst. & dolost.	2.60	16.00	2.00	0.49	9.60	0.27	0.030	0.11	6400
NOTS6-111	567.4-571.6	mudstone	6.90	3.70	4.00	1.50	2.80	0.57	0.040	0.37	1600
NOTS6-112	571.6-571.9	mudst. & siltst.	5.60	0.28	1.50	0.98	0.54	0.56	0.030	0.36	130
NOTS6-113	571.9-573.0	siltstone	4.20	2.20	3.60	0.67	1.40	0.48	0.070	0.27	1100
NOTS6-114	573.0-585.7	sandstone	3.90	0.15	2.00	0.55	0.33	0.39	0.020	0.27	95
NOTS6-115	585.7-587.0	conglomerate	2.50	11.00	2.50	0.37	6.80	0.24	0.010	0.11	4700
	Count		115	115	115	115	115	115	105	115	115
	Maximum		9.4	16	9.2	2.00	9.60	0.81	0.10	0.46	6400
	Minimum		0.28	0.05	0.24	0.07	0.05	0.05	0.005	0.04	29
	Average		3.50	2.79	2.28	0.72	1.70	0.33	0.024	0.21	1060
	Median		2.90	1.30	1.90	0.57	1.00	0.29	0.020	0.19	460
	Std. Deviation		2.41	3.17	1.73	0.51	1.74	0.19	0.016	0.12	1256
	Variance		5.79	10.05	2.98	0.26	3.02	0.035	0.00027	0.014	1578105

Table 8 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS6-1	20.0-22.0		240	2	59	14	57	39		13	34	44	6	32
NOTS6-2	22.0-25.1		110		48	8	31	15		4	28	17		32
NOTS6-3	25.1-30.0		350	3	72	20	76	87		18	36	61	10	31
NOTS6-4	30.0-35.0		180	1	62	9	48	12		9	30	35	7	28
NOTS6-5	35.0-40.0		270	1	57	10	38	17		9	30	31	5	30
NOTS6-6	40.0-47.4		180		45	11	32	11		7	24	32	5	21
NOTS6-7	47.4-48.4		150		70	14	32	21	4	8	61	25		70
NOTS6-8	48.4-49.4	20	320	2	91	16	79	56		17	47	76	11	40
NOTS6-9	49.4-55.0		100		44	19	25	9			23	18		21
NOTS6-10	55.0-60.0		660		24	15	13	10			13	8		12
NOTS6-11	60.0-63.0		350		27	12	10	10			18	10		18
NOTS6-12	63.0-66.7		78		31	15	12	8			22	13		22
NOTS6-13	66.7-67.3		68		36	17	15	17			26	10		32
NOTS6-14	67.3-70.5		300	3	74	15	90	41		18	41	56	12	33
NOTS6-15	70.5-74.5		280	2	78	13	68	33		15	39	51	10	34
NOTS6-16	74.5-76.0		110		38	10	18	18		5	23	19		19
NOTS6-17	76.0-78.0		190	2	59	14	49	63		12	34	34	5	32
NOTS6-18	87.0-90.0		300	2	78	14	61	57		16	42	54	7	39
NOTS6-19	90.0-94.5	10	260	2	80	12	78	44		14	42	49	11	36
NOTS6-20	94.5-100.0		61		23	17	12	8			10	9		9
NOTS6-21	100.0-105.0		66		19	15	11	5			9	8		5
NOTS6-22	105.0-110.0		100		45	9	18	14		5	25	18		31
NOTS6-23	110.0-115.0		60		33	7	9	7			16	9		16
NOTS6-24	115.0-120.0		160	1	46	16	29	11		6	26	23	4	21
NOTS6-25	120.0-125.8	10	130	1	44	13	25	18		6	26	20		28
NOTS6-26	125.8-130.0		55		22	18	7	6			10	6		6
NOTS6-27	130.0-131.8		52		20	53	5	10			9	5		6
NOTS6-28	135.0-139.0		100		22	13	12	9			14	7		12
NOTS6-29	142.0-144.2		140	1	74	9	35	14		7	52	25		49
NOTS6-30	150.0-156.0		200		40	8	13	7			22	13		20
NOTS6-31	156.0-157.5		280	1	65	15	39	19	2	9	43	33		47
NOTS6-32	157.5-160.6		200	1	64	15	45	30		10	35	33	5	33
NOTS6-33	162.0-170.0		140	1	43	23	41	13		7	23	26	5	18
NOTS6-34	170.0-181.0		140		41	31	24	10		6	23	21	4	19
NOTS6-35	181.0-183.5		66		35	8	10	7			23	10		30
NOTS6-36	183.5-191.3		130		29	14	18	7			16	13		13
NOTS6-37	191.3-195.0		100		33	9	17	6			18	15		15
NOTS6-38	197.0-201.4		64		20	5	8	5			11	4		13
NOTS6-39	203.0-210.0		84		19	16	10	6			9	7		5
NOTS6-40	210.0-213.5		140		35	24	21	9			20	13		22
NOTS6-41	213.5-219.5		150		41	10	31	11		5	23	20		21
NOTS6-42	219.5-226.8	10	1400		35	18	23	8			20	13		17
NOTS6-43	230.0-235.0		220		57	9	43	18		7	31	27	5	24
NOTS6-44	235.0-240.0		240		28	13	14	7			14	11		15
NOTS6-45	240.0-249.0		140		39	10	12	10			27	14		27
NOTS6-46	250.0-259.0		380	3	84	28	83	140		19	38	110	12	34
NOTS6-47	259.0-269.0		220	1	60	10	46	15		9	32	36	7	27
NOTS6-48	269.0-274.5		120		50	7	38	11		6	26	27		20

Table 8 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS6-49	274.5-279.0		140		20	3	10	4			10	10		7
NOTS6-50	279.0-281.1		120		58	9	20	10	3	5	41	19		53
NOTS6-51	281.1-284.6		360	3	76	24	73	99		18	40	80	10	35
NOTS6-52	284.6-293.6		210	1	64	10	41	23		9	31	36	6	25
NOTS6-53	293.6-299.4		120		44	12	23	8		5	22	22	4	18
NOTS6-54	299.4-301.6		77		39	4	18	6			18	16		16
NOTS6-55	301.6-305.2		180	1	59	13	32	14		9	32	34	6	31
NOTS6-56	305.2-311.9		150	1	50	10	27	13		8	24	31	5	20
NOTS6-57	311.9-314.3		220	2	65	16	46	15		11	31	45	7	29
NOTS6-58	315.0-320.0		280	2	76	15	62	29		14	37	52	8	31
NOTS6-59	320.0-325.0	10	150	1	65	11	25	9		7	32	30	6	27
NOTS6-60	325.0-328.0		140		48	16	22	10		5	24	28		20
NOTS6-61	329.0-330.9		130	1	41	13	24	10		5	19	18		23
NOTS6-62	330.9-336.2		100		70	8	20	6		5	33	17		32
NOTS6-63	336.2-342.0		97		35	11	22	5			17	18		12
NOTS6-64	342.0-348.0		47		30	26	10	5			14	8		11
NOTS6-65	348.0-353.5		120		43	26	27	19		7	27	19		27
NOTS6-66	353.5-356.5		130	1	55	24	39	10		7	31	27	5	25
NOTS6-67	356.5-357.0		150	1	49	14	47	15		9	31	35		34
NOTS6-68	357.0-357.5		160	1	59	10	40	13		7	35	32	6	33
NOTS6-69	357.5-362.5		310	2	71	20	64	71		16	37	52	10	33
NOTS6-70	362.5-367.5	10	320	2	73	16	66	51		15	40	47	9	35
NOTS6-71	367.5-376.5		930		26	5	20	5			15	16		14
NOTS6-72	376.5-378.5		330	3	80	19	83	62		18	40	73	11	33
NOTS6-73	380.0-384.2		230	2	82	14	72	19		14	43	61	11	36
NOTS6-74	384.2-390.0		240	3	72	27	72	67		18	38	98	9	36
NOTS6-75	390.0-393.0		460	3	67	23	69	63	2	20	36	90	10	38
NOTS6-76	395.0-400.3		220	2	77	11	74	23		14	38	59	9	32
NOTS6-77	402.0-410.5		240	2	84	13	74	18		14	40	57	10	40
NOTS6-78	404.6		190	4	72	21	61	49		11	35	56	21	43
NOTS6-79	410.5-414.4	10	260	2	69	22	64	11		11	37	52	7	35
NOTS6-80	418.0-420.0		130	1	73	7	38	6		6	37	26		31
NOTS6-81	420.0-427.6		150	2	86	11	40	6		6	44	21		42
NOTS6-82	427.6-428.8	10	1700		60	19	28	9	3	13	37	23		54
NOTS6-83	428.8-434.0		130	1	48	34	31	8		6	24	22	5	22
NOTS6-84	434.0-436.0	10	160	1	68	11	53	9		9	33	34	7	30
NOTS6-85	436.0-440.7		130	2	61	10	28	6		7	31	33	6	28
NOTS6-86	440.7-441.4	40	140	2	71	33	38	13		11	35	25		42
NOTS6-87	441.4-445.0	20	180	1	70	21	54	14		10	35	38	6	34
NOTS6-88	445.0-450.0	10	830		49	15	35	11	2	12	26	32		33
NOTS6-89	450.0-460.0		3700		26	40	19	6			13	13		12
NOTS6-90	460.0-466.3		1000		22	26	4	6			10	8		9
NOTS6-91	466.3-474.5		140		37	20	33	6		4	18	12		21
NOTS6-92	474.5-479.0		110		36	10	20	4		4	18	12		17
NOTS6-93	479.0-485.0	30	110		26	34	21	7			13	8		11
NOTS6-94	485.0-490.0	30	200		20	26	15	6			10	7		10
NOTS6-95	490.0-494.6		120		26	70	14	8			13	9		14
NOTS6-96	495.0-496.8		550		27	14	20	4			15	9		15

Table 8 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS6-97	496.8-501.5		73		40	58	13	7		5	18	19		16
NOTS6-98	501.5-502.8		100		60	24	28	13		11	31	32		31
NOTS6-99	502.8-506.0	10	240	3	92	27	88	46		24	51	100	13	45
NOTS6-100	506.0-510.0		460	3	69	28	78	51		22	37	94	12	35
NOTS6-101	510.0-515.0		210	2	77	18	61	16		18	41	63	8	39
NOTS6-102	515.0-524.0		260	2	90	17	90	16		19	47	73	12	44
NOTS6-103	524.0-530.0	10	220	3	81	24	84	29		21	42	95	11	40
NOTS6-104	530.0-538.6		170	2	71	19	70	33		19	38	66	8	35
NOTS6-105	538.6-539.0		1900	1	66	14	46	11	2	16	38	42		39
NOTS6-106	539.0-543.2		260	2	87	16	74	16		20	45	74	9	41
NOTS6-107	555.0-558.3		170		58	6	30	4		5	29	20	5	29
NOTS6-108	558.3-560.7		130		40	9	13	14		7	21	19		25
NOTS6-109	560.7-566.5	20	240	3	96	22	86	24		22	52	89	12	46
NOTS6-110	566.5-567.4		480	1	69	16	23	16	2	14	40	27		46
NOTS6-111	567.4-571.6		260	3	88	21	71	30		19	47	62	9	44
NOTS6-112	571.6-571.9		240	2	85	12	64	12		13	43	49	9	38
NOTS6-113	571.9-573.0		240	1	69	12	61	7		11	34	35	6	35
NOTS6-114	573.0-585.7		130	1	64	9	40	8		10	32	35	7	28
NOTS6-115	585.7-587.0		130		46	15	20	8		11	27	22		30
	Count	17	115	60	115	115	115	115	8	83	115	115	55	115
	Maximum	40	3700	4	96	70	90	140	4	24	61	110	21	70
	Minimum	10	47	1	19	3	4	4	2	4	9	4	4	5
	Average	16	279	1.8	54	17	38	20	2.5	11	29	33	8.1	28
	Median	<10	170	1	57	15	32	11	<2	7	31	26	<4	29
	Std. Deviation	9.4	429	0.81	21	10	24	22	0.76	5.3	11	24	3.1	12
	Variance	88	183794	0.66	435	101	579	470	0.57	28	131	600	9.7	143

Table 8 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS6-1	20.0-22.0	25	12	9	100	7	65	20	2	50	11.0	0.9	8.96	1.820
NOTS6-2	22.0-25.1	11	6	4	64	5	39	18	2	19	2.0	0.5	4.04	1.170
NOTS6-3	25.1-30.0	40	15	12	140	11	100	18	2	74	13.0	0.7	11.90	2.860
NOTS6-4	30.0-35.0	25	8	7	81	9	48	17	2	37	4.8	0.3	8.81	2.150
NOTS6-5	35.0-40.0	19	10	6	77	7	36	20	2	31	5.9	0.2	9.04	1.650
NOTS6-6	40.0-47.4	17	7	5	61	6	46	13	1	26	8.5	0.2	6.71	1.470
NOTS6-7	47.4-48.4	15	9	6	120	5	46	66	5	41	6.0	0.5	5.93	1.540
NOTS6-8	48.4-49.4	38	32	13	130	12	120	19	2	71	24.0	0.7	11.30	2.810
NOTS6-9	49.4-55.0	12	6	3	51	4	44	14	1	22	5.9	0.2	5.05	1.480
NOTS6-10	55.0-60.0	4	5	2	40		15	9		9	3.3	0.1	2.40	0.883
NOTS6-11	60.0-63.0	4	6		39		12	16		16	2.3		2.40	0.669
NOTS6-12	63.0-66.7	9	6	3	45		19	17	1	14	3.2		4.21	1.180
NOTS6-13	66.7-67.3	7	18	4	49		32	30	2	22	14.0	0.2	4.10	1.710
NOTS6-14	67.3-70.5	39	12	12	100	11	80	20	2	66	8.0	0.3	11.00	2.850
NOTS6-15	70.5-74.5	35	12	11	91	12	64	18	2	54	6.2	0.2	11.10	2.750
NOTS6-16	74.5-76.0	13	9	3	47	4	57	12	1	22	2.0		5.60	1.650
NOTS6-17	76.0-78.0	26	11	8	110	9	81	24	2	48	7.0	1.6	9.72	2.210
NOTS6-18	87.0-90.0	31	15	11	130	11	76	25	2	61	8.8	0.3	11.10	2.610
NOTS6-19	90.0-94.5	32	13	10	110	12	86	18	3	52	13.0	0.7	12.10	2.880
NOTS6-20	94.5-100.0	5	7		24		20	5		10	6.5	0.2	2.50	1.360
NOTS6-21	100.0-105.0	3			22		11	4		6	3.0	0.1	2.60	0.510
NOTS6-22	105.0-110.0	12	8	5	69		26	22	1	23	6.1	0.2	4.52	1.530
NOTS6-23	110.0-115.0	6			33		14	10		10	3.9		4.74	2.010
NOTS6-24	115.0-120.0	18	13	4	64	5	46	11	1	27	12.0	0.3	6.07	2.160
NOTS6-25	120.0-125.8	16	16	4	84	6	49	18	2	30	14.0	0.4	6.38	2.360
NOTS6-26	125.8-130.0	3			21		10	5		6	3.4		3.10	1.270
NOTS6-27	130.0-131.8				18		7	3		4	2.4			0.539
NOTS6-28	135.0-139.0	3	5		38		15	6		8	3.2		2.30	1.080
NOTS6-29	142.0-144.2	17	12	5	100	7	51	19	2	30	13.0	0.3	7.54	2.470
NOTS6-30	150.0-156.0	9	5	3	45	5	16	12	2	11	2.2	0.2	4.80	1.900
NOTS6-31	156.0-157.5	21	12	6	120	6	44	30	3	26	9.9	0.5	8.85	2.980
NOTS6-32	157.5-160.6	24	15	7	140	8	59	23	2	36	12.0	0.5	8.90	2.540
NOTS6-33	162.0-170.0	20	19	5	86	6	49	11	1	44	8.7	0.3	5.53	2.060
NOTS6-34	170.0-181.0	15	5	4	85		28	10	1	20	3.8	0.1	6.44	1.500
NOTS6-35	181.0-183.5	7	8	4	73		19	31	2	6	6.9	0.4	2.70	1.330
NOTS6-36	183.5-191.3	9	6	2	56		25	8		16	12.0	0.1	2.70	1.240
NOTS6-37	191.3-195.0	9	6	2	59	5	23	8		13	5.1		3.90	1.490
NOTS6-38	197.0-201.4		6		35		12	11			3.3	0.3		0.620
NOTS6-39	203.0-210.0	3			31		9	4		7	2.0		2.30	0.838
NOTS6-40	210.0-213.5	9	10	3	72		25	18	1	14	7.5	0.3	4.05	1.170
NOTS6-41	213.5-219.5	14	8	5	76	5	32	11	1	20	6.3	0.2	4.20	1.550
NOTS6-42	219.5-226.8	9	9	3	89		35	13	1	19	16.0	0.4	3.10	1.800
NOTS6-43	230.0-235.0	16	7	5	110	9	41	13	2	24	9.7	0.2	7.18	2.650
NOTS6-44	235.0-240.0	6	9		54	4	25	9		10	6.2	0.2	2.10	1.300
NOTS6-45	240.0-249.0	7	12	3	72		35	22	2	6	6.3	0.7	3.00	1.370
NOTS6-46	250.0-259.0	51	17	14	270	12	81	19	3	89	6.3	0.2	12.30	4.540
NOTS6-47	259.0-269.0	20	18	7	130	9	63	16	2	34	13.0	0.3	8.06	2.860
NOTS6-48	269.0-274.5	14	13	5	95	6	52	11	1	22	9.7	0.2	7.38	2.400

Table 8 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS6-49	274.5-279.0	4	5		32		11	5		9	2.8	0.1	2.30	0.649
NOTS6-50	279.0-281.1	12	26	4	110		81	29	2	15	10.0	0.7	4.67	1.620
NOTS6-51	281.1-284.6	47	24	13	240	13	100	24	3	71	8.3	0.4	12.90	3.870
NOTS6-52	284.6-293.6	22	14	7	140	8	57	15	2	34	11.0	0.4	10.10	2.510
NOTS6-53	293.6-299.4	13	8	4	88	6	34	11	1	19	6.8	0.1	5.81	1.880
NOTS6-54	299.4-301.6	9	5	2	60		16	7		13	2.7		4.89	1.160
NOTS6-55	301.6-305.2	22	18	7	130	7	58	24	2	31	12.0	0.2	7.71	2.510
NOTS6-56	305.2-311.9	19	9	5	100	7	40	11	1	30	8.3	0.1	7.21	1.690
NOTS6-57	311.9-314.3	29	32	8	140	10	86	15	2	47	15.0	0.4	9.11	3.030
NOTS6-58	315.0-320.0	32	17	10	170	11	70	18	2	50	11.0	0.2	11.60	3.580
NOTS6-59	320.0-325.0	18	14	5	120	8	48	16	2	36	11.0	0.2	7.77	3.160
NOTS6-60	325.0-328.0	19	11	4	100	6	42	14	1	27	9.5	0.2	6.00	2.370
NOTS6-61	329.0-330.9	14	59	4	94	4	120	17	1	24	13.0	0.7	6.51	2.730
NOTS6-62	330.9-336.2	10	8	4	110	8	25	23	2	16	7.6	0.1	9.37	4.710
NOTS6-63	336.2-342.0	9	6	3	70		19	6		15	4.5		3.90	1.480
NOTS6-64	342.0-348.0	4			36		7	4		5	2.1		2.70	0.769
NOTS6-65	348.0-353.5	13	28	5	110	5	57	21	2	24	9.3	0.4	4.92	1.970
NOTS6-66	353.5-356.5	21	7	4	110	6	36	10	1	27	6.6	0.1	5.76	1.980
NOTS6-67	356.5-357.0	21	25	7	130	8	58	30	2	26	7.1	0.6	7.23	2.390
NOTS6-68	357.0-357.5	18	12	7	120	8	63	25	3	24	3.6	0.4	9.52	2.970
NOTS6-69	357.5-362.5	36	12	12	220	11	110	20	3	63	10.0	11.0	11.00	4.540
NOTS6-70	362.5-367.5	32	15	11	300	12	80	20	2	58	15.0	0.3	12.60	4.220
NOTS6-71	367.5-376.5	8	6	3	74	4	24	10	1	15	4.3	0.1	4.35	1.470
NOTS6-72	376.5-378.5	44	23	13	180	13	96	18	2	73	14.0	0.2	11.20	5.600
NOTS6-73	380.0-384.2	29	18	10	160	12	130	21	3	58	14.0	1.3	11.70	5.890
NOTS6-74	384.2-390.0	41	17	13	200	11	83	25	3	86	7.1	0.5	12.70	4.680
NOTS6-75	390.0-393.0	42	17	14	200	9	76	29	3	75	8.8	0.2	11.30	3.440
NOTS6-76	395.0-400.3	30	16	10	140	11	66	19	2	44	11.0	0.2	12.50	3.180
NOTS6-77	402.0-410.5	31	24	10	170	12	96	23	2	43	10.0	3.5	13.20	4.680
NOTS6-78	404.6	29	160	9	150	12	5200	17	3	40	4.4	90.0		76.000
NOTS6-79	410.5-414.4	36	22	8	140	8	79	23	2	47	20.0	0.2	8.11	4.270
NOTS6-80	418.0-420.0	15	17	5	99	9	36	18	2	19	6.0	0.2	11.20	4.080
NOTS6-81	420.0-427.6	13	41	5	99	12	68	23	3	21	6.0	0.3	10.60	5.760
NOTS6-82	427.6-428.8	15	81	6	160	9	120	48	3	22	12.0	0.7	6.34	3.410
NOTS6-83	428.8-434.0	14	11	4	100	7	33	9	1	24	6.3	0.1	5.69	2.070
NOTS6-84	434.0-436.0	19	17	7	140	10	51	15	2	36	11.0	0.1	11.10	3.040
NOTS6-85	436.0-440.7	21	9	5	120	7	35	13	2	24	3.5	0.1	9.77	2.180
NOTS6-86	440.7-441.4	22	75	9	120	9	170	30	3	52	46.0	0.8	7.00	6.420
NOTS6-87	441.4-445.0	26	28	7	140	10	100	18	2	42	28.0	0.4	8.94	4.370
NOTS6-88	445.0-450.0	18	23	8	410	8	91	30	3	26	13.0	1.5	8.24	3.430
NOTS6-89	450.0-460.0	8	8	3	140	4	30	6		13	5.5	1.6	3.20	1.290
NOTS6-90	460.0-466.3	3			52		10	3		11	2.0	1.3	1.90	0.624
NOTS6-91	466.3-474.5	8	26	7	62		150	12	1	10	6.5	7.3	2.90	2.560
NOTS6-92	474.5-479.0	6	8	3	61	6	26	12	1	7	4.5	4.0	2.90	2.110
NOTS6-93	479.0-485.0	5	28		51		57	4		8	38.0	6.5	3.40	2.200
NOTS6-94	485.0-490.0	4	21		42		38	4		7	31.0	0.9		1.480
NOTS6-95	490.0-494.6	5	27	3	50		120	9	1	8	5.3	1.2	2.60	2.280
NOTS6-96	495.0-496.8	4	12		51	4	29	11	1	6	2.0	0.5	3.70	2.190

Table 8 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS6-97	496.8-501.5	12	15	3	77	6	49	8	1	14	4.4	2.7	4.65	2.110
NOTS6-98	501.5-502.8	21	16	8	220	8	100	25	3	21	3.1	30.0		24.200
NOTS6-99	502.8-506.0	56	28	16	190	17	110	24	3	91	15.0	1.7	16.20	6.190
NOTS6-100	506.0-510.0	54	20	15	180	14	79	22	3	89	5.5	0.1	13.10	4.080
NOTS6-101	510.0-515.0	32	18	13	200	12	77	25	3	54	5.7	0.5	11.50	2.970
NOTS6-102	515.0-524.0	44	22	13	170	15	95	23	3	180	7.8	0.2	12.30	3.700
NOTS6-103	524.0-530.0	47	18	15	170	15	99	26	3	89	12.0	0.2	13.50	4.330
NOTS6-104	530.0-538.6	35	14	12	150	12	71	24	3	68	7.4	0.2	11.80	3.010
NOTS6-105	538.6-539.0	21	11	10	390	10	62	32	3	29	8.1	1.1	8.58	2.190
NOTS6-106	539.0-543.2	41	17	15	170	14	85	27	3	59	11.0	0.2	10.60	3.020
NOTS6-107	555.0-558.3	12	7	4	75	9	30	14	2	17	2.7		7.42	4.010
NOTS6-108	558.3-560.7	11	55	6	170	7	700	20	2	14	2.0	30.0		93.300
NOTS6-109	560.7-566.5	49	19	15	200	16	110	26	3	76	16.0	0.2	16.30	3.590
NOTS6-110	566.5-567.4	14	13	6	310	8	42	41	3	20	6.7	0.3	6.22	1.420
NOTS6-111	567.4-571.6	40	14	13	160	13	100	25	3	61	8.6	0.1	12.30	3.110
NOTS6-112	571.6-571.9	32	34	9	150	13	120	19	3	39	5.2	21.0	12.70	11.700
NOTS6-113	571.9-573.0	22	21	11	130	10	130	25	3	28	6.2	0.2	10.60	2.840
NOTS6-114	573.0-585.7	21	11	6	110	10	51	13	2	30	6.0		8.59	2.400
NOTS6-115	585.7-587.0	16	20	5	150	7	63	29	3	15	10.0	0.2	4.65	1.550
	Count	113	108	99	115	86	115	115	94	114	115	101	109	115
	Maximum	56	160	16	410	17	5200	66	5	180	46	90.0	16.3	93.30
	Minimum	3	5	2	18	4	7	3	1	4	2.0	0.1	1.90	0.51
	Average	20	18	7.2	115	8.8	108	18	2.1	33	8.8	2.4	7.45	4.19
	Median	17	13	5	100	7	51	18	2	24	7.1	0.2	6.71	2.36
	Std. Deviation	13	19	3.8	70	3.2	484	9.5	0.81	26	6.8	10	3.65	11.1
	Variance	174	351	14.5	4907	10.0	234273	90	0.66	697	45.6	100	13.29	123

Table 9: Analytical results for drill core NOTS 7 & 7A. ICP = Induction Coupled Plasma, HGAA = Hydride Generation Atomic Absorption, DNAA = Delayed Neutron Activation Analysis

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS7-1	21.0-24.5	siltstone	4.60	1.70	2.10	1.40	1.60	0.81	0.030	0.25	390
NOTS7-2	*28.0-35.5	mudst. & siltst	7.20	4.30	3.90	2.40	3.90	0.61	0.060	0.35	1200
NOTS7-3	*38.0-43.0	mudst. & siltst.	6.30	2.90	3.10	2.00	2.90	0.86	0.050	0.34	810
NOTS7-4	43.0-52.7	siltstone	5.60	2.10	3.90	2.30	2.80	0.77	0.050	0.38	730
NOTS7-5	52.7-54.5	siltstone	5.50	2.90	2.20	1.60	2.60	0.92	0.040	0.30	700
NOTS7-6	54.5-58.2	siltstone	6.80	2.60	3.40	2.00	2.90	0.86	0.050	0.37	790
NOTS7-7	58.2-60.0	siltstone	4.10	3.40	1.90	1.10	2.60	0.96	0.030	0.24	890
NOTS7-8	60.0-61.5	siltstone	3.80	3.50	0.83	0.95	2.60	0.99	0.040	0.23	820
NOTS7-9	61.5-71.0	mudstone	7.70	2.30	4.00	2.40	3.10	0.79	0.050	0.39	800
NOTS7-10	*71.0-80.0	mudstone	6.80	3.50	3.40	2.10	3.40	0.81	0.070	0.32	1000
NOTS7-11	81.0-86.0	siltstone	6.10	3.60	2.80	1.80	3.30	0.91	0.040	0.28	1100
NOTS7-12	*86.0-93.5	siltstone	4.90	3.00	2.10	1.30	2.50	1.10	0.040	0.24	870
NOTS7-13	93.5-94.2	conglomerate	4.10	9.70	2.00	1.10	6.60	0.65	0.030	0.18	2300
NOTS7-14	94.2-102.0	mudst. & siltst.	4.90	1.90	2.20	1.30	1.80	0.97	0.030	0.25	570
NOTS7-15	102.0-105.0	mudstone	3.60	2.80	1.60	0.95	2.10	0.74	0.030	0.16	750
NOTS7-16	105.0-105.9	conglomerate	3.50	5.80	1.10	0.90	3.90	0.62	0.020	0.17	1300
NOTS7-17	105.9-107.0	siltstone	5.90	4.10	3.10	1.60	3.50	0.99	0.050	0.26	1100
NOTS7-18	*107.0-112.0	sandstone	6.00	2.60	2.90	1.50	2.70	0.82	0.040	0.29	760
NOTS7-19	112.0-114.0	sandstone	4.90	1.50	2.10	1.30	1.50	0.83	0.030	0.31	430
NOTS7-20	*114.0-119.0	mudst. & siltst.	5.70	2.60	2.70	1.40	2.50	0.83	0.040	0.29	730
NOTS7-21	119.0-120.0	siltstone	4.60	2.20	1.10	1.00	2.00	1.00	0.030	0.27	580
NOTS7-22	122.0-129.5	siltstone	5.10	3.10	2.30	1.30	2.60	0.95	0.040	0.28	920
NOTS7-23	129.5-134.0	siltstone	6.40	2.40	3.20	1.90	2.60	0.87	0.040	0.33	800
NOTS7-24	135.4-138.0	siltstone	6.60	2.00	3.50	2.00	2.20	0.71	0.040	0.32	700
NOTS7-25	138.0-141.6	mudstone	9.20	0.67	5.10	2.60	1.90	0.68	0.050	0.40	42
NOTS7-26	141.6-143.0	siltstone	4.10	11.00	2.20	1.10	7.70	0.48	0.020	0.15	3000
NOTS7-27	143.0-146.0	mudst. & siltst.	7.00	1.10	3.60	1.90	1.80	0.82	0.040	0.35	500
NOTS7-28	146.0-146.1	siltstone	5.70	1.20	1.40	1.50	1.50	0.91	0.030	0.28	370
NOTS7-29	146.1-147.7	sandstone	5.10	2.10	2.20	1.40	2.00	0.83	0.030	0.29	650
NOTS7-30	147.7-148.0	sandstone	6.00	0.88	2.00	1.60	1.40	0.82	0.040	0.31	300
NOTS7-31	149.0-160.0	mudst. & siltst.	7.40	1.60	3.90	2.10	2.20	0.79	0.050	0.37	630
NOTS7-32	160.0-170.0	mudst. & siltst.	7.20	1.50	3.50	2.00	2.00	0.86	0.050	0.35	580
NOTS7-33	*170.0-179.9	mudst. & siltst.	6.20	3.60	3.10	1.80	3.10	0.80	0.040	0.30	1200
NOTS7-34	179.9-181.0	sandstone	2.50	4.70	0.60	0.76	3.00	0.35	0.010	0.14	1200
NOTS7-35	181.0-185.2	mudst. & siltst.	6.00	0.49	3.10	1.70	1.10	0.64	0.030	0.31	290
NOTS7-36	185.2-187.0	sandstone	4.00	0.95	2.00	1.10	0.99	0.60	0.020	0.23	370
NOTS7A-1	175.0-180.0	sandstone	4.50	1.80	2.00	1.30	1.60	0.81	0.020	0.27	570
NOTS7A-2	180.0-193.2	sandstone	3.90	0.43	2.10	1.10	0.71	0.50	0.010	0.21	300
NOTS7A-3	*194.5-205.0	sandstone	1.50	4.10	0.94	0.42	2.60	0.21	0.009	0.10	1300
NOTS7A-4	*205.0-210.0	sandstone	1.10	0.37	0.69	0.33	0.31	0.16	0.007	0.08	150
NOTS7A-5	212.0-214.0	siltstone	5.00	0.19	2.50	1.20	0.73	0.86	0.030	0.32	220
NOTS7A-6	*216.5-225.0	sandstone	1.60	0.64	0.81	0.46	0.40	0.21	0.007	0.12	180
NOTS7A-7	*229.0-234.2	sandstone	0.69	0.12	0.42	0.20	0.12	0.09		0.07	55
NOTS7A-8	*236.0-242.0	sandstone	1.30	0.73	0.84	0.36	0.57	0.15	0.008	0.09	260
NOTS7A-9	242.0-242.1	conglomerate	1.90	8.50	1.30	0.50	5.40	0.23	0.010	0.10	2500
NOTS7A-10	242.5-243.0	siltstone	6.70	1.10	4.50	1.70	1.50	0.62	0.030	0.35	560
NOTS7A-11	243.0-243.3	sandstone	3.90	1.00	0.94	1.10	1.10	0.36	0.020	0.23	320
NOTS7A-12	243.3-247.8	mudst. & siltst.	5.90	0.53	3.60	1.50	1.10	0.49	0.030	0.35	390

Table 9 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS7A-13	*247.8-250.8	sandstone	0.49	0.28	0.23	0.15	0.20	0.05		0.04	86
NOTS7A-14	250.2-250.3	sandstone	2.20	0.09	4.10	0.57	0.34	0.12	0.020	0.12	64
NOTS7A-15	250.8-252.5	sandstone	2.70	0.13	1.50	0.82	0.36	0.30	0.010	0.15	120
NOTS7A-16	*263.2-273.0	sandstone	2.80	0.06	2.10	0.69	0.28	0.15	0.020	0.15	200
NOTS7A-17	273.0-280.0	sandstone	2.80	0.25	1.60	0.73	0.52	0.30	0.020	0.15	200
NOTS7A-18	280.0-281.7	sandstone	2.40	3.60	1.30	0.63	2.50	0.25	0.010	0.13	1000
NOTS7A-19	283.0-283.2	sandstone	3.00	4.40	1.00	0.78	3.10	0.31	0.020	0.15	1200
NOTS7A-20	283.2-287.3	siltstone	5.50	0.56	3.00	1.40	0.95	0.60	0.030	0.27	340
NOTS7A-21	287.3-288.0	conglomerate	2.10	10.00	1.30	0.56	6.70	0.22	0.020	0.10	2700
NOTS7A-22	288.0-290.5	sandstone	5.30	0.23	2.70	1.30	0.82	0.58	0.030	0.35	280
NOTS7A-23	*293.0-302.0	sandstone	3.90	0.14	2.30	0.99	0.57	0.43	0.020	0.22	150
NOTS7A-24	302.0-302.2	sandstone	2.90	0.79	0.64	0.71	0.82	0.29	0.020	0.15	240
NOTS7A-25	302.2-303.2	mudstone	4.70	6.80	2.70	1.20	4.70	0.39	0.030	0.18	2200
NOTS7A-26	*303.2-309.0	mudstone	8.10	0.96	4.30	2.10	2.10	0.68	0.050	0.41	580
NOTS7A-27	309.0-312.0	sandstone	5.50	1.00	2.80	1.40	1.20	0.54	0.020	0.30	490
NOTS7A-28	312.0-316.5	sandstone	4.20	0.07	2.00	1.00	0.42	0.50	0.010	0.24	100
NOTS7A-29	318.0-318.8	sandstone	0.58	0.09	0.34	0.16	0.09	0.07		0.05	42
NOTS7A-30	325.0-326.0	sandstone	0.77	0.33	0.62	0.20	0.26	0.06	0.005	0.05	110
NOTS7A-31	329.0-331.0	siltstone	8.20	0.14	4.40	1.90	0.84	0.44	0.030	0.39	350
NOTS7A-32	331.0-332.2	sandstone	2.60	0.19	0.78	0.66	0.30	0.29	0.010	0.19	81
NOTS7A-33	334.0-337.5	sandstone	0.52	0.15	0.22	0.13	0.12	0.05		0.05	48
NOTS7A-34	345.5-346.7	sandstone	1.40	0.43	0.81	0.34	0.30	0.12	0.010	0.09	140
NOTS7A-35	346.7-351.9	siltstone	5.00	0.33	2.50	1.20	0.77	0.35	0.030	0.29	240
NOTS7A-36	350.6-350.7	siltstone	5.20	0.23	6.10	1.30	0.72	0.38	0.040	0.29	780
NOTS7A-37	351.9-352.5	sandstone	3.80	0.46	1.90	0.97	0.74	0.30	0.010	0.23	180
NOTS7A-38	353.0-353.3	sandstone	3.20	0.40	0.83	0.82	0.64	0.26	0.020	0.17	130
NOTS7A-39	353.3-361.0	mudst. &. sandst.	5.20	2.40	2.80	1.30	2.00	0.41	0.030	0.28	1000
NOTS7A-40	361.0-362.0	mudst. &. sandst.	5.30	7.20	2.60	1.30	4.70	0.34	0.020	0.24	2200
NOTS7A-41	362.0-363.5	sandstone	4.00	0.12	2.00	0.97	0.49	0.30	0.020	0.22	100
NOTS7A-42	365.0-367.0	sandstone	3.00	0.10	2.00	0.74	0.37	0.27	0.020	0.19	140
NOTS7A-43	*367.0-370.5	conglomerate	3.10	6.50	1.90	0.75	4.10	0.25	0.020	0.15	2000
NOTS7A-44	370.5-376.0	sandstone	3.70	0.56	2.20	0.92	0.72	0.40	0.020	0.21	300
NOTS7A-45	376.0-376.9	sandstone	4.30	0.11	2.00	1.10	0.69	0.29	0.020	0.25	90
NOTS7A-46	381.0-381.1	sandstone	3.70	2.30	1.50	1.00	1.80	0.25	0.030	0.21	650
NOTS7A-47	*381.1-394.6	mudstone	7.80	1.50	4.30	2.20	1.90	0.46	0.040	0.38	640
NOTS7A-48	*394.6-396.6	sandstone	4.60	0.58	1.90	1.20	0.73	0.48	0.020	0.28	210
NOTS7A-49	397.0-401.0	siltstone	5.50	0.10	3.00	1.30	0.56	0.49	0.020	0.32	170
NOTS7A-50	401.0-404.0	sandstone	0.80	0.22	0.38	0.19	0.18	0.06	0.007	0.06	80
NOTS7A-51	*404.0-406.1	conglomerate	3.00	3.00	1.90	0.71	1.90	0.15	0.020	0.18	890
NOTS7A-52	406.1-409.2	sandstone	1.40	0.79	0.73	0.33	0.54	0.11	0.010	0.09	240
NOTS7A-53	410.0-413.8	sandstone	0.66	0.57	0.27	0.16	0.35	0.08		0.08	170
NOTS7A-54	*413.8-421.8	sandstone	2.00	1.50	0.83	0.46	0.89	0.16	0.010	0.16	410
NOTS7A-55	*425.0-431.1	mudst. & siltst.	7.60	0.31	4.60	1.70	0.99	0.32	0.030	0.41	380
NOTS7A-56	*431.1-442.0	sandstone	3.40	0.11	2.50	0.66	0.31	0.14	0.020	0.22	100
NOTS7A-57	*442.0-445.5	sandstone	4.00	0.27	1.90	0.85	0.50	0.14	0.020	0.22	130
NOTS7A-58	*445.5-453.5	siltstone	8.30	0.21	4.90	1.90	0.87	0.30	0.030	0.44	310
NOTS7A-59	453.5-456.0	mudst. & sandst.	4.90	0.48	2.70	1.20	0.71	0.23	0.020	0.27	240
NOTS7A-60	456.0-460.0	sandstone	5.00	0.18	2.70	1.20	0.56	0.22	0.020	0.27	170

Table 9 Continued.

Sample	Depth Interval	Lithology	ICP Al %	ICP Ca %	ICP Fe %	ICP K %	ICP Mg %	ICP Na %	ICP P %	ICP Ti %	ICP Mn ppm
NOTS7A-61	*460.0-464.7	sandstone	5.70	0.26	2.80	1.40	0.65	0.22	0.030	0.30	290
NOTS7A-62	*466.0-473.0	sandstone	1.00	0.06	0.50	0.21	0.09	0.05	0.006	0.09	68
NOTS7A-63	473.0-475.0	sandstone	2.70	1.90	1.30	0.62	1.20	0.10	0.010	0.16	600
NOTS7A-64	*481.8-489.2	sandstone	0.56	0.10	0.96	0.14	0.08	0.03		0.05	120
NOTS7A-65	489.2-491.8	sandstone	2.90	0.08	2.20	0.65	0.26	0.09	0.010	0.19	250
NOTS7A-66	*497.0-502.0	sandstone	3.20	0.36	1.80	0.76	0.44	0.11	0.010	0.21	320
NOTS7A-67	502.0-503.5	sandstone	1.80	0.15	0.87	0.46	0.24	0.07	0.008	0.12	110
NOTS7A-68	505.0-505.5	conglomerate	2.50	9.10	8.00	0.60	5.00	0.10	0.040	0.11	3300
NOTS7A-69	*512.0-528.3	sandstone	1.00	1.50	0.66	0.22	0.12	0.05	0.006	0.08	330
NOTS7A-70	528.3-528.8	conglomerate	4.40	6.80	4.90	0.95	4.00	0.16	0.020	0.21	2200
NOTS7A-71	*531.0-540.0	sandstone	2.80	0.31	1.50	0.60	0.43	0.13	0.010	0.20	240
NOTS7A-72	541.0-543.0	sandstone	4.00	0.14	1.30	0.89	0.52	0.16	0.020	0.28	99
NOTS7A-73	*543.0-547.9	siltstone	7.00	0.13	4.40	1.70	0.74	0.21	0.020	0.36	400
NOTS7A-74	547.9-548.4	sandstone	2.80	0.04	0.45	0.68	0.23	0.15	0.010	0.20	31
NOTS7A-75	551.0-551.7	sandstone	2.80	0.20	1.10	0.60	0.29	0.15	0.020	0.18	130
NOTS7A-76	*551.7-564.0	sandstone	0.67	0.40	0.33	0.13	0.25	0.06		0.07	190
NOTS7A-77	566.0-568.7	sandstone	1.50	0.98	0.74	0.31	0.58	0.08	0.008	0.11	400
NOTS7A-78	568.7-569.1	conglomerate	6.60	0.50	3.80	1.30	0.84	0.18	0.020	0.35	370
NOTS7A-79	571.0-572.0	mudstone	6.60	0.28	4.70	1.50	0.77	0.19	0.020	0.36	430
NOTS7A-80	572.0-574.7	sandstone	3.70	0.11	1.80	0.86	0.34	0.26	0.020	0.27	160
NOTS7A-81	581.0-583.7	sandstone	0.40	0.03	0.40	0.07	0.04	0.03		0.04	63
NOTS7A-82	585.3-586.0	sandstone	0.53	10.00	0.30	0.12	5.50	0.05	0.007	0.04	3300
NOTS7A-83	591.0-593.1	sandstone	0.58	0.52	0.22	0.11	0.06	0.05		0.06	64
NOTS7A-84	593.1-594.0	mudst. & sandst.	2.50	0.06	6.20	0.55	0.24	0.11	0.020	0.15	390
NOTS7A-85	*594.0-596.8	sandstone	0.74	0.15	1.40	0.14	0.05	0.06		0.07	84
NOTS7A-86	596.8-598.0	sandstone	0.78	1.30	0.33	0.17	0.08	0.07		0.07	100
NOTS7A-87	598.0-599.0	sandstone	5.00	0.12	2.20	1.10	0.60	0.25	0.020	0.30	140
NOTS7A-88	599.0-600.3	sandstone	5.20	0.16	2.40	1.20	0.62	0.39	0.020	0.34	240
NOTS7A-89	*609.0-620.8	sandstone	4.40	0.95	2.20	1.10	0.55	0.36	0.020	0.25	230
NOTS7A-90	621.0-626.6	conglomerate	2.80	13.00	2.80	0.70	7.40	0.18	0.050	0.12	5700
NOTS7A-91	626.6-630.8	sandstone	4.50	0.69	2.20	0.88	0.41	0.27	0.020	0.30	260
	* = Noncontiguous Core										
	Count		127	127	127	127	127	127	116	127	127
	Maximum		9.2	13	8	2.6	7.7	1.1	0.07	0.44	5700
	Minimum		0.40	0.03	0.22	0.07	0.04	0.03	0.01	0.04	31
	Average		4.03	1.87	2.21	1.05	1.59	0.41	0.03	0.22	632
	Median		4.00	0.73	2.10	1.00	0.84	0.30	0.02	0.23	350
	Std. Deviation		2.13	2.59	1.43	0.60	1.63	0.30	0.014	0.10	814
	Variance		4.53	6.70	2.04	0.36	2.64	0.092	0.00019	0.011	662585

Table 9 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS7-1	21.0-24.5		220	1	57	10	75	10		11	32	36	7	31
NOTS7-2	*28.0-35.5		1100	2	70	18	85	26		18	37	64	11	36
NOTS7-3	*38.0-43.0		290	2	65	15	76	21		15	34	58	10	32
NOTS7-4	43.0-52.7		460	2	73	18	88	25		18	37	68	12	33
NOTS7-5	52.7-54.5		660	2	57	11	65	12		13	32	47	9	33
NOTS7-6	54.5-58.2		310	2	72	16	80	24		16	38	62	12	34
NOTS7-7	58.2-60.0		490	1	55	9	46	7		8	30	34	7	30
NOTS7-8	60.0-61.5		600	1	66	8	57	5		8	35	33	6	37
NOTS7-9	61.5-71.0	10	700	3	75	20	92	29		20	39	71	13	35
NOTS7-10	*71.0-80.0		260	2	71	17	92	24		16	39	63	10	41
NOTS7-11	81.0-86.0		350	2	63	15	67	21		15	33	52	8	32
NOTS7-12	*86.0-93.5		340	1	58	10	58	12		11	32	37	6	31
NOTS7-13	93.5-94.2		310	1	160	12	43	15	2	11	33	35		46
NOTS7-14	94.2-102.0		370	2	60	10	57	10		12	32	41	8	30
NOTS7-15	102.0-105.0		160	1	43	8	40	7		8	24	30	4	22
NOTS7-16	105.0-105.9		130	1	44	9	43	5		8	26	32	4	29
NOTS7-17	105.9-107.0		1100	2	52	16	73	13		14	31	50	8	32
NOTS7-18	*107.0-112.0		320	2	61	16	85	23		15	32	61	8	29
NOTS7-19	112.0-114.0		710	2	68	11	73	11		12	39	44	9	36
NOTS7-20	*114.0-119.0		310	2	71	13	71	14		13	36	55	8	33
NOTS7-21	119.0-120.0		790	1	67	10	62	7		11	35	44	8	34
NOTS7-22	122.0-129.5		1300	2	69	12	56	14		12	35	43	8	36
NOTS7-23	129.5-134.0		1200	2	76	16	77	20		15	38	51	9	36
NOTS7-24	135.4-138.0		1100	2	68	16	84	20		16	33	54	10	30
NOTS7-25	138.0-141.6	20	590	2	88	20	110	29		21	46	86	15	35
NOTS7-26	141.6-143.0		5000	1	59	17	52	16	2	12	40	42		49
NOTS7-27	143.0-146.0		630	2	76	17	93	18		17	39	63	11	34
NOTS7-28	146.0-146.1		280	2	62	12	75	12		12	35	51	11	36
NOTS7-29	146.1-147.7		1100	2	64	12	61	10		11	35	46	8	33
NOTS7-30	147.7-148.0	10	2100	2	93	16	83	11		13	46	55	11	45
NOTS7-31	149.0-160.0		250	2	77	18	90	22		18	39	66	10	36
NOTS7-32	160.0-170.0		400	2	73	18	91	19		16	38	61	10	35
NOTS7-33	*170.0-179.9		310	2	71	16	70	20		15	36	49	8	36
NOTS7-34	179.9-181.0		1800		32	9	34	3		6	19	22		22
NOTS7-35	181.0-185.2		280	2	65	14	73	12		13	36	50	10	31
NOTS7-36	185.2-187.0		230	1	53	10	51	7		9	29	31	7	25
NOTS7A-1	175.0-180.0		1000	1	77	10	76	8		9	42	33	6	40
NOTS7A-2	180.0-193.2		330	1	53	9	46	10		10	26	28	6	23
NOTS7A-3	*194.5-205.0		990		36	7	21	3			22	13		26
NOTS7A-4	*205.0-210.0		3100		21	6	16	1			12	10		13
NOTS7A-5	212.0-214.0		1300	2	74	14	61	17		11	38	28	8	37
NOTS7A-6	*216.5-225.0		210		33	4	24	4			18	12		15
NOTS7A-7	*229.0-234.2		160		22	2	12	2			11	7		11
NOTS7A-8	*236.0-242.0		850		27	6	19	5			15	11		14
NOTS7A-9	242.0-242.1		1700		44	10	26	6	3	7	29	16		46
NOTS7A-10	242.5-243.0	10	720	2	73	20	91	15		16	44	58	11	37
NOTS7A-11	243.0-243.3		2300	2	47	13	83	9		8	30	35	7	29
NOTS7A-12	243.3-247.8	10	380	2	66	17	93	19		13	39	52	10	31

Table 9 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS7A-13	*247.8-250.8		180		14	2	7	1			8	6		9
NOTS7A-14	250.2-250.3	40	140	1	53	16	37	15		7	30	21		30
NOTS7A-15	250.8-252.5		190		40	7	35	7		7	23	22		19
NOTS7A-16	*263.2-273.0	20	2900	1	46	13	43	10		7	26	25		25
NOTS7A-17	273.0-280.0		720	1	40	10	37	8		7	22	23		21
NOTS7A-18	280.0-281.7		1800		28	11	35	5		7	18	20		19
NOTS7A-19	283.0-283.2		400	1	38	10	47	9		7	24	26		27
NOTS7A-20	283.2-287.3		550	2	72	15	77	15		13	42	45	7	37
NOTS7A-21	287.3-288.0		3500		39	15	34	6	3	7	34	18		52
NOTS7A-22	288.0-290.5		1200	2	71	14	73	19		11	39	44	9	32
NOTS7A-23	*293.0-302.0		2600	1	56	13	55	9		9	31	33	5	28
NOTS7A-24	302.0-302.2		3500		50	13	46	8		6	34	27		32
NOTS7A-25	302.2-303.2		3800	2	73	21	61	21	2	12	50	42		54
NOTS7A-26	*303.2-309.0		680	3	73	27	100	37		20	41	67	14	36
NOTS7A-27	309.0-312.0		290	2	87	13	86	18		13	43	49	8	38
NOTS7A-28	312.0-316.5		190	1	68	9	59	7		9	34	36	6	32
NOTS7A-29	318.0-318.8		340		19	2	9	1			9	8		8
NOTS7A-30	325.0-326.0		66		23	3	12	2			12	9		12
NOTS7A-31	329.0-331.0		380	3	110	18	100	25		19	55	80	15	45
NOTS7A-32	331.0-332.2		140		43	6	39	4		6	23	26	4	19
NOTS7A-33	334.0-337.5		210		16	2	8	2			8	7		5
NOTS7A-34	345.5-346.7		1600		30	6	23	5			17	13		16
NOTS7A-35	346.7-351.9		420	2	180	15	83	15		12	37	43	7	35
NOTS7A-36	350.6-350.7	60	260	2	110	19	80	46		14	34	40	9	31
NOTS7A-37	351.9-352.5		720	1	54	17	54	12		8	29	34	6	27
NOTS7A-38	353.0-353.3		350		53	9	46	6		7	28	29		26
NOTS7A-39	353.3-361.0		240	2	66	14	76	21		12	35	43	7	32
NOTS7A-40	361.0-362.0	20	190	2	92	17	92	18		14	37	48	5	39
NOTS7A-41	362.0-363.5		190	1	60	15	76	11		9	34	34	5	29
NOTS7A-42	365.0-367.0		1000	1	51	15	45	12		7	29	25	4	26
NOTS7A-43	*367.0-370.5		470	1	59	12	41	9	2	9	38	25		42
NOTS7A-44	370.5-376.0	10	400	1	56	13	49	10		8	31	30	5	24
NOTS7A-45	376.0-376.9		370	2	70	18	61	12		11	33	42	8	38
NOTS7A-46	381.0-381.1		210	2	66	14	60	11		11	31	34	6	36
NOTS7A-47	*381.1-394.6		330	3	110	20	100	28		20	36	61	13	37
NOTS7A-48	*394.6-396.6		220	1	62	10	72	8		11	30	39	9	31
NOTS7A-49	397.0-401.0		260	2	81	13	80	13		13	36	43	10	35
NOTS7A-50	401.0-404.0		64		22	2	14	2			10	9		10
NOTS7A-51	*404.0-406.1	10	180	1	51	14	44	10		9	28	25	5	32
NOTS7A-52	406.1-409.2		98		29	5	24	5			14	12		15
NOTS7A-53	410.0-413.8		57		24	2	18	1			11	7		14
NOTS7A-54	*413.8-421.8		130		42	9	35	9		5	24	17		23
NOTS7A-55	*425.0-431.1	20	540	3	85	21	140	27		18	42	67	12	38
NOTS7A-56	*431.1-442.0		210	1	56	11	49	8		9	24	30	6	25
NOTS7A-57	*442.0-445.5		230	1	61	13	49	9		10	27	33	7	29
NOTS7A-58	*445.5-453.5	10	620	3	88	18	100	25		20	45	71	14	46
NOTS7A-59	453.5-456.0		360	2	62	11	65	12		12	30	39	8	30
NOTS7A-60	456.0-460.0		340	2	65	12	65	10		13	30	39	8	31

Table 9 Continued.

Sample	Depth Interval	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Ce ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Eu ppm	ICP Ga ppm	ICP La ppm	ICP Li ppm	ICP Nb ppm	ICP Nd ppm
NOTS7A-61	*460.0-464.7		410	2	70	14	83	19		14	31	44	9	31
NOTS7A-62	*466.0-473.0		330		31	3	13	6			14	11		17
NOTS7A-63	473.0-475.0		270		43	12	42	15		7	20	22	5	22
NOTS7A-64	*481.8-489.2		78		16	5	10	2			7	6		6
NOTS7A-65	489.2-491.8		290	1	58	18	48	15		7	27	20	5	29
NOTS7A-66	*497.0-502.0		340	1	53	10	57	9		9	26	23	6	22
NOTS7A-67	502.0-503.5		210		39	7	30	5		5	18	14		20
NOTS7A-68	505.0-505.5		430	2	59	19	38	13	3	11	35	16		52
NOTS7A-69	*512.0-528.3		120		25	8	16	9			12	10		13
NOTS7A-70	528.3-528.8		450	2	91	19	66	13	4	15	59	38		82
NOTS7A-71	*531.0-540.0		210		48	11	43	9		7	21	25	5	20
NOTS7A-72	541.0-543.0		280	1	64	14	57	14		9	30	37	8	29
NOTS7A-73	*543.0-547.9	10	690	3	90	17	87	22		17	40	50	11	39
NOTS7A-74	547.9-548.4		180		49	6	35	5		6	25	22	5	26
NOTS7A-75	551.0-551.7		180		46	7	36	6		6	23	22	5	21
NOTS7A-76	*551.7-564.0		60		22	2	16	2			10	8		9
NOTS7A-77	566.0-568.7		120		28	11	23	11		4	14	13		15
NOTS7A-78	568.7-569.1		560	2	79	17	97	10		16	46	59	11	44
NOTS7A-79	571.0-572.0		660	2	95	17	99	20		16	45	55	10	43
NOTS7A-80	572.0-574.7		290	1	61	12	48	10		9	30	28	8	30
NOTS7A-81	581.0-583.7		63		15	2	6	2			7	5		6
NOTS7A-82	585.3-586.0		58		17	6	9	2		4	11	5		20
NOTS7A-83	591.0-593.1		56		21	12	10	12			10	7		9
NOTS7A-84	593.1-594.0		280	1	45	11	42	11		6	25	20	4	27
NOTS7A-85	*594.0-596.8		89		20	7	15	8			9	9		7
NOTS7A-86	596.8-598.0		58		20	4	12	4			10	9		10
NOTS7A-87	598.0-599.0		260		97	16	88	14	3	13	57	40	9	66
NOTS7A-88	599.0-600.3		590		82	13	68	14		13	38	43	10	35
NOTS7A-89	*609.0-620.8		240		65	16	50	14		11	32	37	8	29
NOTS7A-90	621.0-626.6		160		86	17	32	15	4	15	67	23		77
NOTS7A-91	626.6-630.8		200		69	14	60	11		12	37	37	9	32
	* = Noncontiguous Core													
	Count	14	127	85	127	127	127	127	10	106	127	127	84	127
	Maximum	60	5000	3	180	27	140	46	4	21	67	86	15	82
	Minimum	10	56	1	14	2	6	1	2	4	7	5	4	5
	Average	19	643	1.7	59	12	56	12	3	11	30	35	8	30
	Median	<10	340	1	60	13	57	11	<2	10	32	34	6	31
	Std. Deviation	15	829	0.61	26	5.1	28	7.8	0.79	4.1	12	19	2.7	13
	Variance	213	687975	0.38	689	26	775	62	0.62	17	135	349	7.1	162

Table 9 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS7-1	21.0-24.5	23	9	7	110	8	59	18	2	34	4.8		7.09	2.620
NOTS7-2	*28.0-35.5	40	17	13	180	10	88	24	3	61	9.8		10.20	3.130
NOTS7-3	*38.0-43.0	32	13	11	150	9	67	20	2	51	8.1		12.40	2.600
NOTS7-4	43.0-52.7	42	15	13	180	12	85	20	3	67	9.4		10.60	3.060
NOTS7-5	52.7-54.5	27	11	9	130	11	67	19	2	39	6.3	0.3	8.39	2.410
NOTS7-6	54.5-58.2	38	15	12	160	12	68	21	3	58	8.8		8.10	2.720
NOTS7-7	58.2-60.0	18	8	6	100	10	71	20	2	23	4.7	0.2	7.49	2.660
NOTS7-8	60.0-61.5	17	5	7	100	10	230	23	3	22	2.6	0.4	10.00	11.900
NOTS7-9	61.5-71.0	45	15	14	180	13	83	21	3	66	8.3		11.10	2.980
NOTS7-10	*71.0-80.0	38	14	12	170	10	73	23	2	57	8.0		9.81	2.830
NOTS7-11	81.0-86.0	31	10	10	150	11	53	19	2	43	5.6		10.90	2.500
NOTS7-12	*86.0-93.5	21	10	8	110	9	40	19	2	28	5.4		8.87	2.440
NOTS7-13	93.5-94.2	23	11	8	120	8	38	33	3	18	5.3		8.47	1.830
NOTS7-14	94.2-102.0	24	15	8	110	9	360	17	2	36	6.9	0.4	7.25	3.430
NOTS7-15	102.0-105.0	16	8	7	82	7	49	14	2	21	4.2		7.14	1.660
NOTS7-16	105.0-105.9	15	7	7	92	7	150	20	2	17	2.3	0.5	8.20	7.340
NOTS7-17	105.9-107.0	30	13	10	140	10	75	21	2	43	6.5		9.26	2.490
NOTS7-18	*107.0-112.0	33	12	10	130	10	54	19	2	43	7.1		11.30	2.360
NOTS7-19	112.0-114.0	24	11	8	120	12	110	21	3	34	5.7	1.1	9.54	3.160
NOTS7-20	*114.0-119.0	29	13	10	120	10	65	23	3	38	6.0	0.1	9.60	2.510
NOTS7-21	119.0-120.0	22	6	8	110	11	74	23	3	26	3.1	0.7	11.20	4.990
NOTS7-22	122.0-129.5	25	12	9	130	10	51	23	3	33	5.2		8.37	2.660
NOTS7-23	129.5-134.0	33	14	11	140	12	67	23	3	84	6.0		12.10	2.670
NOTS7-24	135.4-138.0	33	13	11	140	11	74	21	2	51	7.0		8.75	2.350
NOTS7-25	138.0-141.6	52	15	16	190	15	110	20	3	76	11.0		15.10	2.830
NOTS7-26	141.6-143.0	22	11	8	260	7	49	37	3	41	5.5	0.8	6.44	1.520
NOTS7-27	143.0-146.0	37	13	12	150	12	72	20	3	53	7.9		10.20	2.720
NOTS7-28	146.0-146.1	28	7	9	120	10	1800	21	3	43	4.5	3.1	16.00	51.900
NOTS7-29	146.1-147.7	25	11	9	120	11	78	22	3	36	5.8	0.2	9.44	2.630
NOTS7-30	147.7-148.0	32	12	10	140	11	860	24	3	56	11.0	2.0	21.00	123.000
NOTS7-31	149.0-160.0	41	15	13	160	14	91	21	3	61	9.2		9.88	2.770
NOTS7-32	160.0-170.0	40	12	13	150	11	81	21	3	61	7.7	1.0	11.50	2.560
NOTS7-33	*170.0-179.9	35	14	11	130	10	62	23	3	46	6.2		9.68	2.210
NOTS7-34	179.9-181.0	14		4	89	6	180	18	2	18	1.9	0.3	5.40	11.200
NOTS7-35	181.0-185.2	34	21	10	120	10	110	18	2	58	6.3		25.00	62.000
NOTS7-36	185.2-187.0	21	9	7	91	8	59	15	2	27	4.6		9.83	2.120
NOTS7A-1	175.0-180.0	21	8	8	100	12	78	23	3	32	4.2	0.1	13.80	4.580
NOTS7A-2	180.0-193.2	21	12	6	88	8	51	13	2	31	4.9		8.55	1.990
NOTS7A-3	*194.5-205.0	7	10	4	61	5	16	22	2	38	5.9		4.60	1.140
NOTS7A-4	*205.0-210.0	6	5		69		12	6		9	2.8		4.25	0.798
NOTS7A-5	212.0-214.0	28	11	9	100	12	42	22	3	30	3.7		13.80	2.790
NOTS7A-6	*216.5-225.0	9	5	2	46		19	10	1	14	2.2		3.30	1.090
NOTS7A-7	*229.0-234.2	4			27		8	5		7	2.0		2.90	0.719
NOTS7A-8	*236.0-242.0	8	6	3	48		23	7		9	2.5		4.60	0.674
NOTS7A-9	242.0-242.1	11	8	5	88	6	33	41	3	10	4.5		6.24	0.941
NOTS7A-10	242.5-243.0	42	12	11	140	12	95	22	3	51	11.0		11.30	2.830
NOTS7A-11	243.0-243.3	24	5	8	100	7	980	19	2	31	2.0	0.2	8.10	4.600
NOTS7A-12	243.3-247.8	39	13	10	130	10	83	19	2	48	11.0		10.00	2.590

Table 9 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS7A-13	*247.8-250.8	3			21		9	5		3	1.5		1.40	0.472
NOTS7A-14	250.2-250.3	21	9	4	80	5	120	26	2	26	44.0	0.2	5.90	1.880
NOTS7A-15	250.8-252.5	17	6	4	93	5	27	10	1	28	4.1		6.89	1.470
NOTS7A-16	*263.2-273.0	19	10	5	110	6	45	12	1	25	20.0		4.10	1.850
NOTS7A-17	273.0-280.0	18	7	4	82	5	27	12	1	21	3.8		5.20	1.680
NOTS7A-18	280.0-281.7	14	6	4	84	4	43	14	2	11	2.1		3.60	1.360
NOTS7A-19	283.0-283.2	18		6	79	7	74	20	2	15	2.1		7.56	1.680
NOTS7A-20	283.2-287.3	30	20	9	150	11	81	18	2	41	4.7		11.80	2.300
NOTS7A-21	287.3-288.0	12	7	5	130		53	51	4	7	3.1		5.25	1.530
NOTS7A-22	288.0-290.5	31	13	9	150	10	60	19	2	37	4.7		7.50	2.750
NOTS7A-23	*293.0-302.0	23	8	7	140	6	52	15	2	26	3.8		6.04	2.050
NOTS7A-24	302.0-302.2	15	7	5	240	6	120	15	1	19	2.5	0.4	5.60	2.420
NOTS7A-25	302.2-303.2	27	13	9	220	8	47	36	3	29	7.0		7.56	2.130
NOTS7A-26	*303.2-309.0	52	25	14	170	13	81	22	3	63	5.0		13.70	3.240
NOTS7A-27	309.0-312.0	28	21	10	140	10	61	22	3	41	5.0		11.30	3.140
NOTS7A-28	312.0-316.5	23	9	7	100	8	91	16	2	26	3.1	1.0	8.81	2.390
NOTS7A-29	318.0-318.8	4	5		25		8	4		13	1.5		2.60	0.775
NOTS7A-30	325.0-326.0	4	4		30		11	6		11	1.9	0.8	2.50	0.509
NOTS7A-31	329.0-331.0	49	20	15	220	13	100	24	3	60	6.6		15.60	2.800
NOTS7A-32	331.0-332.2	14	5	4	84	4	66	11	1	17	2.7	1.7	5.40	1.750
NOTS7A-33	334.0-337.5	4			23		5	4		8	1.4	0.2	2.70	0.725
NOTS7A-34	345.5-346.7	8	4	2	61		17	9	1	10	5.9	0.6	4.30	1.150
NOTS7A-35	346.7-351.9	31	10	9	140	10	50	21	3	37	7.2	3.5	8.72	2.540
NOTS7A-36	350.6-350.7	31	16	9	120	10	100	19	3	43	62.0		9.36	3.550
NOTS7A-37	351.9-352.5	25	5	7	100	7	55	15	2	28	2.7		7.57	2.010
NOTS7A-38	353.0-353.3	19	7	6	97	5	64	13	1	550	2.3	1.7	4.70	2.400
NOTS7A-39	353.3-361.0	30	23	9	140	8	47	22	2	37	8.2		7.32	2.600
NOTS7A-40	361.0-362.0	28	10	12	160	8	48	30	3	34	16.0		7.81	2.340
NOTS7A-41	362.0-363.5	24	9	7	140	8	48	16	2	30	5.3		9.23	2.090
NOTS7A-42	365.0-367.0	18	8	5	100	6	32	14	2	20	4.4		6.36	1.840
NOTS7A-43	*367.0-370.5	18	9	8	95	8	29	34	3	13	6.1		7.95	2.070
NOTS7A-44	370.5-376.0	21	9	6	100	8	38	15	2	25	7.7		8.79	2.730
NOTS7A-45	376.0-376.9	32	9	8	120	9	180	21	2	37	3.9	7.7	9.59	4.140
NOTS7A-46	381.0-381.1	27	27	7	98	8	310	19	2	39	5.4	4.2	7.71	4.140
NOTS7A-47	*381.1-394.6	45	18	15	160	13	89	24	3	63	6.9		15.30	3.400
NOTS7A-48	*394.6-396.6	26	12	8	120	10	140	19	2	31	3.3	0.9	8.21	2.640
NOTS7A-49	397.0-401.0	32	14	10	150	11	74	21	3	40	7.5		3.10	0.611
NOTS7A-50	401.0-404.0	4			36		10	6		8	1.6		12.80	2.700
NOTS7A-51	*404.0-406.1	18	7	6	100	5	48	23	2	23	9.7	0.3	7.42	1.350
NOTS7A-52	406.1-409.2	8	5	2	54	5	14	9		10	2.2		3.50	0.906
NOTS7A-53	410.0-413.8	4			32	4	8	7		5	0.8		4.49	1.250
NOTS7A-54	*413.8-421.8	10	18	4	82	6	21	14	1	15	3.3		4.70	1.590
NOTS7A-55	*425.0-431.1	47	13	14	190	14	94	24	3	57	14.0		13.80	3.560
NOTS7A-56	*431.1-442.0	18	9	7	100	8	54	16	2	20	6.1		9.41	2.050
NOTS7A-57	*442.0-445.5	23	7	7	110	9	75	16	2	27	4.6		8.32	2.050
NOTS7A-58	*445.5-453.5	49	14	15	180	14	100	26	3	62	10.0		13.80	3.700
NOTS7A-59	453.5-456.0	28	9	9	120	9	60	18	2	37	4.2		10.80	2.360
NOTS7A-60	456.0-460.0	30	10	9	120	9	68	19	2	38	4.4		9.63	2.360

Table 9 Continued.

Sample	Depth Interval	ICP Ni ppm	ICP Pb ppm	ICP Sc ppm	ICP Sr ppm	ICP Th ppm	ICP V ppm	ICP Y ppm	ICP Yb ppm	ICP Zn ppm	HGAA As ppm	HGAA Se ppm	DNAA Th ppm	DNAA U ppm
NOTS7A-61	*460.0-464.7	34	11	10	120	10	64	21	2	41	3.5		9.80	2.620
NOTS7A-62	*466.0-473.0	5	4		38		14	10	1	10	1.3		4.10	1.310
NOTS7A-63	473.0-475.0	16	6	5	78	5	30	15	2	17	2.3		5.61	1.380
NOTS7A-64	*481.8-489.2	3	7		18		18	4		13	3.3		2.00	0.567
NOTS7A-65	489.2-491.8	20	8	5	71	6	44	17	2	28	7.4		6.39	1.950
NOTS7A-66	*497.0-502.0	20	37	5	88	7	51	14	2	21	2.3		6.64	1.600
NOTS7A-67	502.0-503.5	13	31	3	56		25	10		15	1.2		4.30	0.863
NOTS7A-68	505.0-505.5	15	77	7	110	7	150	37	3	10	5.7	0.3	8.58	1.780
NOTS7A-69	*512.0-528.3	5	8	2	40		18	6		9	1.2		2.40	0.818
NOTS7A-70	528.3-528.8	28	54	10	150	10	110	45	4	21	5.8	1.0	11.10	2.290
NOTS7A-71	*531.0-540.0	18	14	5	74	6	40	13	2	19	2.5		7.94	1.710
NOTS7A-72	541.0-543.0	25	22	7	110	9	58	18	2	30	3.1		8.13	2.690
NOTS7A-73	*543.0-547.9	40	28	13	150	12	120	23	3	55	8.0	0.1	13.50	3.920
NOTS7A-74	547.9-548.4	12	4	4	88	7	38	15	2	26	2.2		7.58	2.220
NOTS7A-75	551.0-551.7	12	6	4	90	6	31	13	2	17	2.7		6.44	1.530
NOTS7A-76	*551.7-564.0	4	4		24		9	6		5	1.0		2.70	0.969
NOTS7A-77	566.0-568.7	8	6	3	47		19	9		8	1.1		3.10	0.988
NOTS7A-78	568.7-569.1	41	16	12	170	12	110	22	3	42	5.1	0.2	10.20	2.620
NOTS7A-79	571.0-572.0	40	17	12	150	14	100	23	3	48	6.3	0.1	16.10	3.080
NOTS7A-80	572.0-574.7	21	6	6	110	9	42	18	2	27	5.3		8.81	2.200
NOTS7A-81	581.0-583.7		5		19		10	3		4	1.3			0.535
NOTS7A-82	585.3-586.0	3			42		9	17	1		0.6		1.30	0.345
NOTS7A-83	591.0-593.1		5		26		7	4		66	0.8		1.90	0.558
NOTS7A-84	593.1-594.0	12	29	5	81	8	140	24	2	18	4.6	0.2	6.20	3.260
NOTS7A-85	*594.0-596.8	2	19		31		27	4		7	3.9		2.00	0.781
NOTS7A-86	596.8-598.0	3			33		8	7		5	1.0		2.50	0.744
NOTS7A-87	598.0-599.0	29	14	9	140	10	65	46	4	36	5.0		9.80	3.010
NOTS7A-88	599.0-600.3	27	11	9	130	12	76	23	3	37	3.9		13.40	3.720
NOTS7A-89	*609.0-620.8	23	10	8	130	9	52	17	2	34	2.9	0.1	9.59	2.110
NOTS7A-90	621.0-626.6	15	24	7	140	8	72	56	4	15	6.7	0.2	6.36	2.170
NOTS7A-91	626.6-630.8	25	11	8	130	10	49	19	2	27	5.1		8.07	2.750
	* = Noncontiguous Core													
	Count	125	118	111	127	105	127	127	108	126	127	37	126	127
	Maximum	52	77	16	260	15	1800	56	4	550	62	7.7	25.0	123
	Minimum	2	4	2	18	4	5	3	1	3	0.6	0.1	1.30	0.35
	Average	23	13	8	110	9	93	19	2	35	5.8	1.0	8.25	4.19
	Median	23	10	7	110	8	59	19	2	29	4.7	<0.1	8.13	2.36
	Std. Deviation	12	9.4	3.2	48	2.6	194	9.2	0.71	50	6.8	1.5	3.92	12.74
	Variance	149	89	11	2334	6.7	37487	84	0.51	2455	47	2.2	15.4	162

Table 10. Statistical summary for all 549 subsurface Permian rock samples analyzed.
ICP = Induction Coupled Plasma,
HGAA = Hydride Generation Atomic Absorption,
DNAA = Delayed Neutron Activation Analysis

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
ICP							
Al %	549	10	0.28	4.58	4.3	2.63	6.89
Ca %	549	16	0.01	1.84	0.76	2.63	6.94
Fe %	549	14	0.11	2.65	2.3	1.85	3.43
K %	549	2.6	0.07	0.94	0.92	0.55	0.31
Mg %	549	9.6	0.03	1.45	0.92	1.51	2.27
Na %	549	1.1	0.01	0.36	0.36	0.23	0.052
P %	522	0.34	0.01	0.027	0.02	0.022	0.00049
Ti %	549	0.47	0.04	0.24	0.24	0.11	0.013
Mn ppm	549	7700	18	748	360	1043	1088401
As ppm	120	60	10	14	<10	7.7	60
Ba ppm	549	5000	44	363	220	506	256412
Be ppm	363	4	1	2.0	1	0.76	0.58
Ce ppm	549	180	13	62	65	24	587
Co ppm	549	70	2	15	14	7.2	51
Cr ppm	549	170	4	56	55	30	889
Cu ppm	549	190	1	15	11	15	227
Eu ppm	44	4	2	2.6	<2	0.72	0.53
Ga ppm	470	28	4	13	11	6.0	36
La ppm	549	83	7	32	34	12	156
Li ppm	549	130	4	41	36	25	626
Nb ppm	323	21	4	8.6	5	2.9	8.6
Nd ppm	549	97	5	31	32	12	154
Ni ppm	545	71	2	27	24	15	239
Pb ppm	478	160	4	15	10	15	227
Sc ppm	501	20	2	9.0	8	4.4	19
Sr ppm	549	470	13	125	120	65	4282
Th ppm	461	17	4	10	9	3.1	9.4
V ppm	549	5200	5	99	71	268	71562
Y ppm	549	78	3	18	18	8.9	79
Yb ppm	474	6	1	2.3	2	0.77	0.60
Zn ppm	546	550	3	38	34	32	1043
HGAA							
As ppm	549	62	0.4	7.3	6.2	5.9	35
Se ppm	346	110	0.1	1.4	0.1	8.0	65
DNAA							
Th ppm	531	25	1.30	8.95	8.86	3.94	15.5
U ppm	549	123	0.35	3.64	2.59	8.42	71

Table 11. Statistical summary by lithology
ICP = Induction Coupled Plasma,
HGAA = Hydride Generation Atomic Absorption,
DNAA = Delayed Neutron Activation Analysis

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Sandstone							
ICP							
Al %	326	8.5	0.28	3.23	2.95	1.93	3.73
Ca %	326	15	0.01	1.26	0.48	2.05	4.19
Fe %	326	10	0.11	1.82	1.60	1.39	1.94
K %	326	1.8	0.07	0.66	0.61	0.42	0.18
Mg %	326	8.0	0.03	0.90	0.5	1.12	1.26
Na %	326	0.83	0.009	0.27	0.26	0.19	0.037
P %	299	0.34	0.005	0.021	0.02	0.024	0.00056
Ti %	326	0.41	0.04	0.18	0.18	0.090	0.0081
Mn ppm	326	7700	18	536	240	869	755909
As ppm	41	40	10	14	<10	7.4	55
Ba ppm	326	3700	44	321	190	485	235024
Be ppm	158	4	1	1.6	<1	0.6	0.36
Ce ppm	326	170	13	52	52	22	494
Co ppm	326	70	2	12	12	7.5	56
Cr ppm	326	170	4	43	39	26	676
Cu ppm	326	190	1	11	8	14	186
Eu ppm	8	4	2	3	<2	0.9	0.81
Ga ppm	248	22	4	10	7	4.2	18
La ppm	326	83	7	27	26	12	137
Li ppm	326	82	4	28	26	17	283
Nb ppm	134	21	4	6.9	<4	2.4	5.6
Nd ppm	326	93	5	25	25	11	129
Ni ppm	322	48	2	19	17	11	127
Pb ppm	265	160	4	13	8	14	194
Sc ppm	278	15	2	6.4	5	3.1	10
Sr ppm	326	410	13	96	93	51	2615
Th ppm	242	14	4	8.0	6	2.5	6.2
V ppm	326	5200	5	92	51	322	103804
Y ppm	326	78	3	14	14	7.7	59
Yb ppm	251	6	1	2	2	0.7	0.49
Zn ppm	323	550	3	28	24	33	1102
HGAA							
As ppm	326	44	0.4	5.7	4.3	5.2	27
Se ppm	191	110	0.1	1.8	0.1	10.5	110
DNAA							
Th ppm	311	21	1.30	7.25	6.67	3.47	12.0
U ppm	326	123	0.345	3.40	2.15	9.72	94.5

Table 11. Continued

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Siltstone							
ICP							
Al %	37	8.3	3.5	5.8	5.7	1.3	1.7
Ca %	37	11	0.09	2.08	1.70	2.22	4.94
Fe %	37	6.1	0.83	3.06	3.00	1.11	1.24
K %	37	2.3	0.54	1.40	1.40	0.40	0.16
Mg %	37	7.7	0.29	1.93	1.50	1.45	2.12
Na %	37	1.1	0.08	0.64	0.60	0.25	0.06
P %	37	0.08	0.01	0.04	0.03	0.015	0.00022
Ti %	37	0.44	0.15	0.31	0.30	0.065	0.0043
Mn ppm	37	3000	56	756	610	671	450696
As ppm	9	60	10	17	<10	17	275
Ba ppm	37	5000	130	612	380	812	659440
Be ppm	37	3	1	1.9	2	0.6	0.40
Ce ppm	37	180	52	77	72	23	523
Co ppm	37	25	8	15	15	3.8	14
Cr ppm	37	100	40	74	75	15	228
Cu ppm	37	46	5	17	15	9.0	81
Eu ppm	1	2	2	2	<2		
Ga ppm	37	23	8	14	14	3.9	15
La ppm	37	55	28	38	37	6.6	44
Li ppm	37	80	28	51	50	14	195
Nb ppm	35	15	5	9	8	2.4	5.6
Nd ppm	37	49	29	36	36	5.1	26
Ni ppm	37	56	17	32	31	10	96
Pb ppm	37	28	5	13	13	5.2	27
Sc ppm	37	15	5	10	10	2.7	7.4
Sr ppm	37	260	92	148	140	37	1357
Th ppm	37	14	7	11	11	1.7	3.0
V ppm	37	1800	40	129	75	284	80916
Y ppm	37	37	11	22	21	4.0	16
Yb ppm	37	3	1	2.6	3	0.5	0.29
Zn ppm	37	98	22	45	43	16	262
HGAA							
As ppm	37	62	2.6	8.8	6.6	9.5	89
Se ppm	19	3.5	0.1	0.9	0.1	1.2	1.4
DNAA							
Th ppm	37	16.0	3.10	10.6	10.9	2.66	7.07
U ppm	37	51.9	0.61	4.46	2.74	8.20	67

Table 11. Continued

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Mudstone							
ICP							
Al %	111	10	3.6	8.0	8.3	1.1	1.3
Ca %	111	8.6	0.11	1.63	0.96	1.62	2.62
Fe %	111	12	0.90	4.38	4.40	1.13	1.28
K %	111	2.6	0.92	1.52	1.50	0.32	0.10
Mg %	111	5.0	0.54	1.87	1.60	0.93	0.86
Na %	111	0.81	0.05	0.50	0.52	0.17	0.029
P %	111	0.14	0.01	0.04	0.03	0.015	0.00024
Ti %	111	0.47	0.16	0.37	0.37	0.051	0.0026
Mn ppm	111	3700	42	680	490	580	336133
As ppm	47	20	10	12	<10	4.1	17
Ba ppm	111	3800	130	379	300	383	146907
Be ppm	111	4	1	2.7	3	0.5	0.27
Ce ppm	111	110	43	81	79	12	152
Co ppm	111	39	8	20	20	4.2	17
Cr ppm	111	130	40	88	90	14	201
Cu ppm	111	140	7	27	24	16	252
Eu ppm	6	3	2	2	<2	0.4	0.17
Ga ppm	111	28	8	21	22	3.0	9.3
La ppm	111	59	24	43	42	5.6	32
Li ppm	111	120	30	74	73	16	268
Nb ppm	109	17	4	11	10	2.4	5.7
Nd ppm	111	54	22	39	38	5.3	28
Ni ppm	111	71	16	46	48	8.5	72
Pb ppm	104	48	4	14	12	6.3	39
Sc ppm	111	18	7	14	15	2.1	4.6
Sr ppm	111	470	81	193	190	64	4065
Th ppm	111	17	7	13	13	1.9	3.6
V ppm	111	350	47	101	95	40	1614
Y ppm	111	36	14	22	21	3.5	12
Yb ppm	111	3	2	2.8	3	0.37	0.14
Zn ppm	111	180	21	66	63	19	368
HGAA							
As ppm	111	24	3.1	9.5	9.3	3.0	9.1
Se ppm	80	2.0	0.1	0.3	0.1	0.32	0.10
DNAA							
Th ppm	111	18.2	7.14	13.0	13.2	2.09	4.36
U ppm	111	12.8	1.66	3.45	3.11	1.37	1.89

Table 11. Continued

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Mixed lithologies (mudstone/sandstone and mudstone/siltstone)							
ICP							
Al %	27	10	2.5	6.2	6.0	1.6	2.4
Ca %	27	7.2	0.06	1.60	1.10	1.65	2.73
Fe %	27	6.2	1.3	3.4	3.5	1.0	1.1
K %	27	2.4	0.55	1.43	1.30	0.46	0.21
Mg %	27	4.7	0.14	1.66	1.7	1.13	1.27
Na %	27	0.97	0.05	0.52	0.51	0.25	0.063
P %	27	0.06	0.01	0.03	0.03	0.012	0.00015
Ti %	27	0.45	0.15	0.32	0.33	0.062	0.0038
Mn ppm	27	2200	65	632	510	508	257633
As ppm	7	20	10	16	<10	5.4	29
Ba ppm	27	1100	130	331	280	190	36276
Be ppm	27	3	1	2.1	2	0.5	0.26
Ce ppm	27	120	45	75	73	15	213
Co ppm	27	33	10	16	15	5.3	28
Cr ppm	27	140	28	78	77	21	430
Cu ppm	27	30	6	17	18	6.0	35
Eu ppm	2	2	2	2	<2	0	0
Ga ppm	27	24	6	15	15	4.0	16
La ppm	27	58	25	39	38	6.9	48
Li ppm	27	130	20	56	54	21	434
Nb ppm	26	14	4	8.6	8	2.3	5.2
Nd ppm	27	50	27	35	35	5.1	26
Ni ppm	27	59	12	35	35	11	112
Pb ppm	26	34	9	16	13	6.3	40
Sc ppm	27	20	5	11	11	3.2	10
Sr ppm	27	270	81	151	140	44	1932
Th ppm	27	16	7	11	10	2.3	5.5
V ppm	27	360	35	93	81	59	3443
Y ppm	27	30	13	21	20	3.6	13
Yb ppm	27	3	2	2.6	3	0.5	0.26
Zn ppm	27	84	18	48	44	16	248
HGAA							
As ppm	27	28	3.5	9.1	7.8	5.1	26
Se ppm	15	21	0.1	1.6	0.1	5.4	29
DNAA							
Th ppm	27	25.0	6.20	11.3	10.2	3.64	13.2
U ppm	27	62.0	2.18	5.46	2.72	11.4	131

Table 11. Continued

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Conglomerate							
ICP							
Al %	41	8.0	1.1	3.3	2.8	1.6	2.5
Ca %	41	13	0.32	6.80	6.80	3.76	14.1
Fe %	41	14	0.46	3.49	2.20	3.20	10.3
K %	41	1.7	0.24	0.68	0.59	0.35	0.12
Mg %	41	7.4	0.20	3.97	4.10	2.08	4.32
Na %	41	0.65	0.10	0.27	0.24	0.13	0.016
P %	41	0.13	0.01	0.03	0.01	0.026	0.00066
Ti %	41	0.35	0.07	0.16	0.13	0.072	0.0053
Mn ppm	41	5800	110	2603	2500	1593	2539045
As ppm	13	40	10	19	<10	10	91
Ba ppm	41	3500	68	474	220	704	496010
Be ppm	23	3	1	1.8	1	0.74	0.54
Ce ppm	41	160	36	66	59	26	699
Co ppm	41	33	8	17	15	6.0	39
Cr ppm	41	97	15	42	38	20	384
Cu ppm	41	63	3	12	10	10	93
Eu ppm	25	4	2	2.8	2	0.72	0.52
Ga ppm	40	21	4	11	11	4.1	17
La ppm	41	83	19	38	34	14	189
Li ppm	41	81	10	29	25	15	236
Nb ppm	13	11	4	6.0	<4	2.0	4.0
Nd ppm	41	97	21	44	44	16	266
Ni ppm	41	58	7	20	15	11	118
Pb ppm	40	130	5	30	16	32	1047
Sc ppm	41	18	3	7.8	7	3.3	10.9
Sr ppm	41	220	13	127	120	45	2024
Th ppm	37	15	4	8.0	7	2.8	7.9
V ppm	41	450	28	100	81	84	7019
Y ppm	41	66	9	32	33	12	144
Yb ppm	41	5	1	2.8	3	0.83	0.70
Zn ppm	41	77	6	26	21	17	296
HGAA							
As ppm	41	46	2.0	10.3	6.1	9.4	88
Se ppm	34	30	0.1	1.6	0.5	5.1	26
DNAA							
Th ppm	39	13.6	4.00	7.23	6.51	2.33	5.43
U ppm	41	24.2	0.94	3.34	2.29	3.69	13.6

Table 11. Continued

	Count	Maximum	Minimum	Average	Median	Std. Dev.	Variance
Claystone							
ICP							
Al %	6	9.5	6.8	8.3	8.3	1.1	1.3
Ca %	6	2.6	0.21	0.97	0.71	0.92	0.85
Fe %	6	5.4	3.50	4.3	4.25	0.74	0.54
K %	6	2.2	1.2	1.7	1.75	0.37	0.13
Mg %	6	2.3	0.85	1.32	0.99	0.63	0.39
Na %	6	0.62	0.01	0.30	0.29	0.28	0.078
P %	6	0.05	0.02	0.04	0.035	0.012	0.00015
Ti %	6	0.42	0.34	0.37	0.365	0.028	0.00078
Mn ppm	6	680	200	417	425	178	31787
As ppm	3	20	10	13	<10	5.8	33
Ba ppm	6	430	270	342	340	54	2897
Be ppm	6	3	2	2.8	3	0.4	0.17
Ce ppm	6	100	71	83	83.5	11	123
Co ppm	6	29	14	22	21	5.0	25
Cr ppm	6	110	76	89	88	12	144
Cu ppm	6	87	11	31	21.5	28	785
Eu ppm	1	2	2	2	<2		
Ga ppm	6	25	16	21	21.5	3.4	12
La ppm	6	53	36	44	43	6.0	36
Li ppm	6	92	60	75	71.5	14	198
Nb ppm	6	15	9	11	11	2.1	4.3
Nd ppm	6	49	31	39	37	6.3	39
Ni ppm	6	59	37	48	48	8.3	70
Pb ppm	5	15	9	12	12.5	2.2	4.8
Sc ppm	6	18	12	15	15.5	2.4	5.8
Sr ppm	6	210	120	167	160	37	1347
Th ppm	6	15	11	13	12	1.4	1.9
V ppm	6	1500	91	335	100	571	325732
Y ppm	6	26	18	22	21	2.8	7.9
Yb ppm	6	3	2	2.8	3	0.41	0.17
Zn ppm	6	110	63	85	79.5	21	443
HGAA							
As ppm	6	16	6.4	11.6	12.0	3.3	10.6
Se ppm	6	0.7	0.1	0.27	0.15	0.24	0.059
DNAA							
Th ppm	5	16.4	11.9	14.0	13.7	1.67	2.79
U ppm	6	41.6	2.64	9.31	2.81	15.8	250