

**ASSESSING GEOTHERMAL ENERGY POTENTIAL
IN UPSTATE NEW YORK**

Final Report
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ABSTRACT

The potential of geothermal energy for future electric power generation in New York State is evaluated using estimates of temperatures of geothermal reservoir rocks. Bottom hole temperatures from over 2000 oil and gas wells in the region were integrated into subsurface maps of the temperatures for specific geothermal reservoirs. The Theresa/Potsdam formation provides the best potential for extraction of high volumes geothermal fluids. The evaluation of the Theresa/ Potsdam geothermal reservoir in upstate New York suggests that an area 30 miles east of Elmira, New York has the highest temperatures in the reservoir rock. The Theresa/Potsdam reservoir rock should have temperatures about 136 °C and may have as much as 450 feet of porosity in excess of 8%. Estimates of the volumes of geothermal fluids that can be extracted are provided and environmental considerations for production from a geothermal well is discussed.

Key Words: Geothermal energy, geology, electric power, New York State, environmental impact geothermal.

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SUMMARY

The potential of new sources of energy for electric power must be evaluated many years prior to the actual development of the resource. The recent development of geothermal energy for electric power and for low temperature heating in Japan, France, New Zealand and western US indicates that geothermal energy is economical in some locations and may become in the future an important source of energy for regions such as New York. New York has deep geothermal reservoirs that may someday be economical to extract the hot waters and to convert to electric power.

Upstate New York is underlain locally by sedimentary rocks that dip very gently to the south. From about 900 meters thickness in the northern part of upstate New York the sedimentary rocks increase in thickness to over 3400 meters. The principle geothermal reservoir rock is the Theresa and the Potsdam formations. These formations are inter-layered sandstones and limestones with the total thickness of these units about 1000 feet (315 m) to the south. In local regions, porosity of these formations exceeds 10 percent and large volumes of brine water can be extracted. The combination of thick, high porosity zones and high temperatures in the reservoir rock would be the objective for siting a geothermal power plant.

Previous geothermal studies by Hodge and Fromm (1984) found that there is considerable variation in the heat flux throughout upstate New York. In particular there is a region of high geothermal heat flow that trends roughly north-south and is centered over the Finger Lakes with the northern extremity near Auburn, NY. Heat flow values in western New York are about 50-54 mW/m² but rise to as high as 80 mW/m² over this north-south trending anomaly in the Finger Lakes. Part of the objective of this study is to evaluate the temperatures and heat flow in more detail than the Hodge and Fromm study and to isolate a region with the highest temperatures for an economic evaluation of the use of geothermal energy in electric power generation

Using bottom hole temperatures (BHT) from oil and gas wells, subsurface temperature maps at specific depths are determined. Because the BHT's are determined at different depths, a model of thermal conductivity for the region is determined in order to project temperatures to a specific depth from the single BHT. The temperature map of the top of the geothermal reservoir (Theresa/Potsdam) shows that temperatures generally increase towards the south. Near Elmira, NY the temperatures at the top of the Theresa reach a

maximum of about 130 °C. The Theresa and Potsdam are deep in this region and the north-south high heat flow crosses this region. This region is chosen as the site to evaluate the economics of the development of a electric power facility using geothermal energy.

Section 1

INTRODUCTION

The potential of new sources of energy for electric power must be evaluated many years prior to the actual development of the resource. The recent development of geothermal energy for electric power and for low temperature heating in Japan, France, New Zealand and western US indicates that geothermal energy is economical in some locations and may become in the future an important source of energy for regions such as New York.

In New York State the electric power utilities have used the available hydroelectric capacity to its maximum, new nuclear power generation has been suspended, and coal generating power plants have substantial environmental problems that must be overcome. In the future, power generation in the State may involve new technologies and the evaluation of these future technologies is important for long range planning. New York State is fortunate to have geologic subsurface conditions that are conducive to the use of geothermal energy. Sedimentary rocks in the southern part of New York State are located deep within the Appalachian basin and these reservoir rocks have the ability to yield large volumes of geothermal fluids. The temperatures of the reservoir fluids and the costs of retrieval of these fluids is the most important consideration for evaluating the potential of use in power generation.

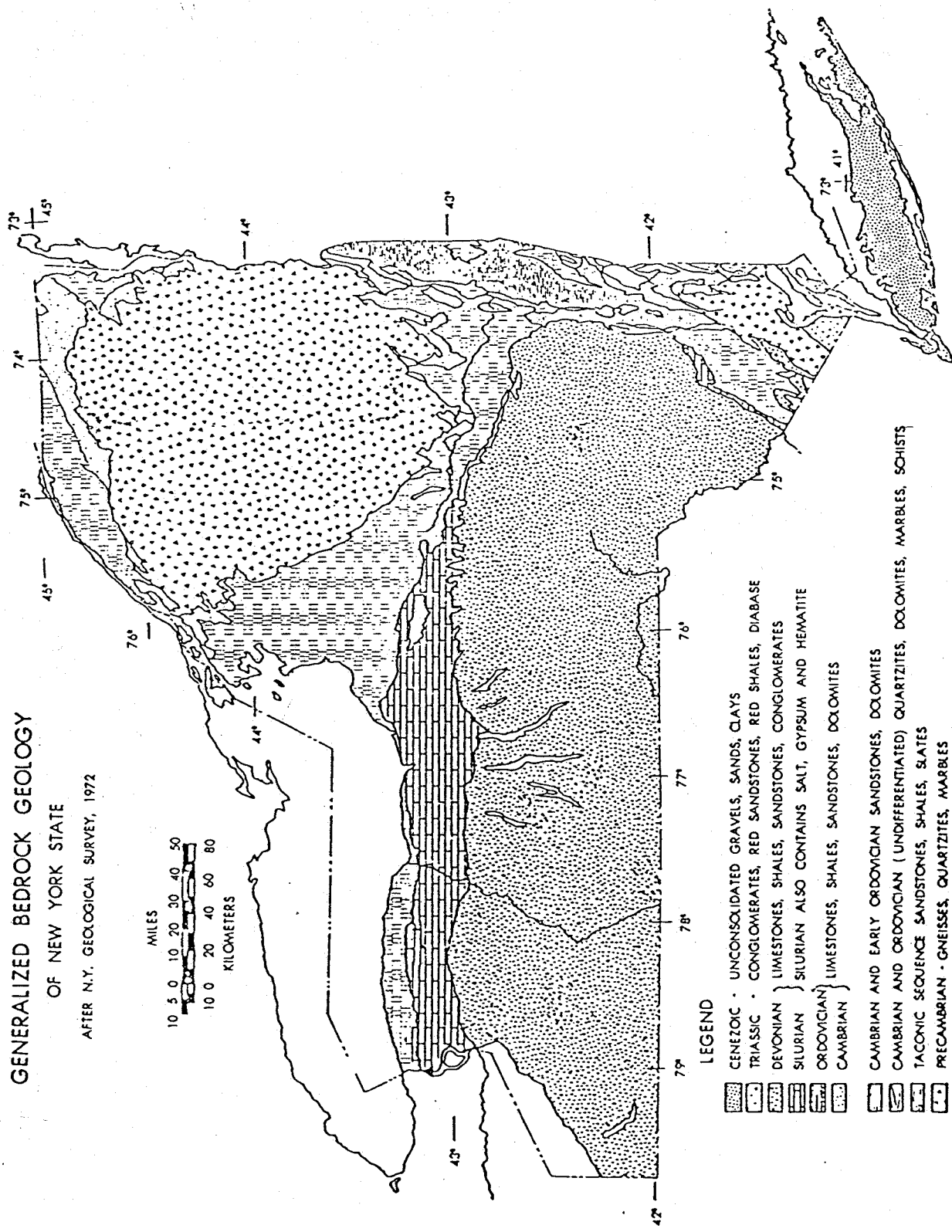
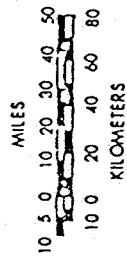
GEOLOGIC SETTING OF SEDIMENTARY ROCKS IN THE APPALACHIAN BASIN

The basic geology of western and central New York State, located in the northern portion of the Appalachian Basin, consists of Cambrian through Devonian sedimentary units that unconformably overlie crystalline Precambrian basement. Regional geologic structure is fairly simple (Figure 1-1): the units dip to the south approximately 10 m/km in the northern region, increasing to 20 m/km in the south of New York State. Overall, stratigraphic thickness also increases from about 900 meters in the north to 3400 meters in the south as the result of erosion of overlying strata in the north and a general thickening of individual stratigraphic units toward the south.

It can be expected that the primary geothermal targets will be at the base of the sedimentary sequence. These targets are primarily the lower Cambrian units, though if connate waters are found, there are potential geothermal reservoirs from the Precambrian through the Middle Ordovician Trenton Group (especially to the south).

GENERALIZED BEDROCK GEOLOGY OF NEW YORK STATE

AFTER N.Y. GEOLOGICAL SURVEY, 1972



LEGEND

- CENEZOIC - UNCONSOLIDATED GRAVELS, SANDS, CLAYS
- TRIASSIC - CONGLOMERATES, RED SANDSTONES, RED SHALES, DIABASE
- DEVONIAN } LIMESTONES, SHALES, SANDSTONES, CONGLOMERATES
- SILURIAN } SILURIAN ALSO CONTAINS SALT, GYPSUM AND HEMATITE
- ORDOVICIAN } LIMESTONES, SHALES, SANDSTONES, DOLOMITES
- CAMBRIAN } LIMESTONES, SHALES, SANDSTONES, DOLOMITES
- CAMBRIAN AND EARLY ORDOVICIAN SANDSTONES, DOLOMITES
- CAMBRIAN AND ORDOVICIAN (UNDIFFERENTIATED) QUARTZITES, DOLOMITES, MARBLES, SCHISTS
- TACONIC SEQUENCE SANDSTONES, SHALES, SLATES
- PRECAMBRIAN - GNEISSES, QUARTZITES, MARBLES

Figure 1-1. General geologic map of New York State.

The lowest unit in the Cambrian stratigraphic sequence is the Potsdam Formation, which consists mainly of sandstone. Though the geologic boundary is not clearly defined, the Theresa (Galway) Formation overlies the Potsdam; there is a gradational increase of quartzose dolostones to dolostones from the basal sandstones. The Theresa is of particular interest for the development of geothermal energy because it is found at considerable depth, which generally ensures the temperatures required for direct-use applications. Connate water is reported in many of the wells that have penetrated the Theresa (Kreidler, 1975) and could provide the heat transport medium when adequate flow rates exist. Above the Theresa is the Little Falls Formation composed primarily of dolostones that are of Late Cambrian to early Ordovician age.

Overlying the Little Falls Formation, except to the north and west, is the Beekmantown Group, which consists of Lower Ordovician quartzose dolostones, dolostones, and dolomitic limestones (Rickard, 1973). The top of the Beekmantown is eroded throughout the area (i.e., the Knox Unconformity) and is overlain by Black River or Trenton Group carbonates. The Black River Group, which overlies the Little Falls Formation to the north and west, is mostly dolostones with some sandstones and shales at its base. Limestones are the predominant lithology toward the top (Rickard, 1973). The Trenton Group is primarily limestone that thins toward the east and changes facies to calcareous shales; overlying shales and sandstones in the east are often included in the Trenton Group (Rickard, 1973).

There is little potential for geothermal reservoirs above the Trenton in western and central New York State. The low permeability of the predominantly shale units of the Upper Ordovician (i.e., Lorraine and Queenston Formations) precludes their utility as reservoirs. The limestones and sandstones that occur in the Lower Silurian would possibly have high enough temperatures in the south of the area, but there is little evidence to indicate the presence of connate water in extractable quantities. The Upper Silurian and Devonian sequences should be rejected as geothermal targets unless a convective system is found.

The exploitation of low-temperature geothermal energy in sedimentary basins with normal temperature gradients has been shown to be economically feasible in several areas of the world. Perhaps the best example is in France where geothermal resources in the Paris Basin have been developed. Five levels within the Paris basin have been found

to be useful geothermal reservoirs. Water at temperatures from 30°C to 50°C is extracted for heating purposes from two levels of Lower Cretaceous sandstones approximately 800 to 900 meters deep. Upper Jurassic limestones and sandstones at about 1200 meters provide water temperatures greater than 60°C and Middle Jurassic limestones at 1800 meters with water temperatures greater than 80°C are also extensively exploited. The deepest level, consisting of Triassic sandstones with water temperatures above 100°C at about 2200 meters depth, is used to a lesser extent (Lejune and Varet, 1981).

The Appalachian Basin in New York State can be compared to the Paris Basin in a general way. It will be shown that the higher gradient areas in the State are in the low to intermediate range of gradients (20° to 50°C/km) found in the Paris Basin. Information on flow rates of formation fluids in New York State is scarce, but recent pump tests at the New York State Energy Research and Development Authority (NYSERDA) geothermal test well in Auburn, New York, produced sustained flow of 100 to 150 gallons per minute (gpm). Spinner logs indicated that one-tenth of this water was from the Black River Formation and the remainder was from the Theresa and Potsdam. Enhancement of reservoir permeability by hydrofracturing or acidification could significantly increase flow rates.

FRACTURE-INDUCED POROSITY AND PERMEABILITY

Highly permeable portions of the Theresa Formation generally occur as the result of fracture-induced porosities [Robinson, 1983]. Thus, the highest flow rates from geothermal wells that intersect the Theresa Formation should be encountered where fracturing is most pervasive. Highly fractured zones within the Paleozoic rocks of the Appalachian Basin seem to be primarily related to the tectonism associated with structures active during the Alleghanian (330-250 my), Acadian (410-380 m.y.) and Taconian (490-440 m.y.) orogenies.

In order to explore the possibility of using geothermal energy for electric power generation NYSERDA and DOE Los Alamos along with several electric power utilities in New York State entered into discussions in order to evaluate the potential of developing electric power from geothermal energy in upstate New York. Through NYSERDA and DOE, the State University of New York at Buffalo and Dyncorp, Inc. were contracted to study the geothermal potential. The evaluation is divided into two parts. SUNY at Buffalo is responsible for the evaluation of the subsurface temperatures in upstate NY

and for the selection of a potential geothermal electric power site. Dyncorp, Inc. is responsible for the design and characterization of the power facility and to provide estimates of the costs and revenues of the potential facility. This report from SUNY at Buffalo describes the heat flow, temperature distributions, possible reservoir characteristics and environmental impact considerations for the development of a geothermal electric power facility.

Section 2

MAJOR STRUCTURES OF CENTRAL AND WESTERN NEW YORK

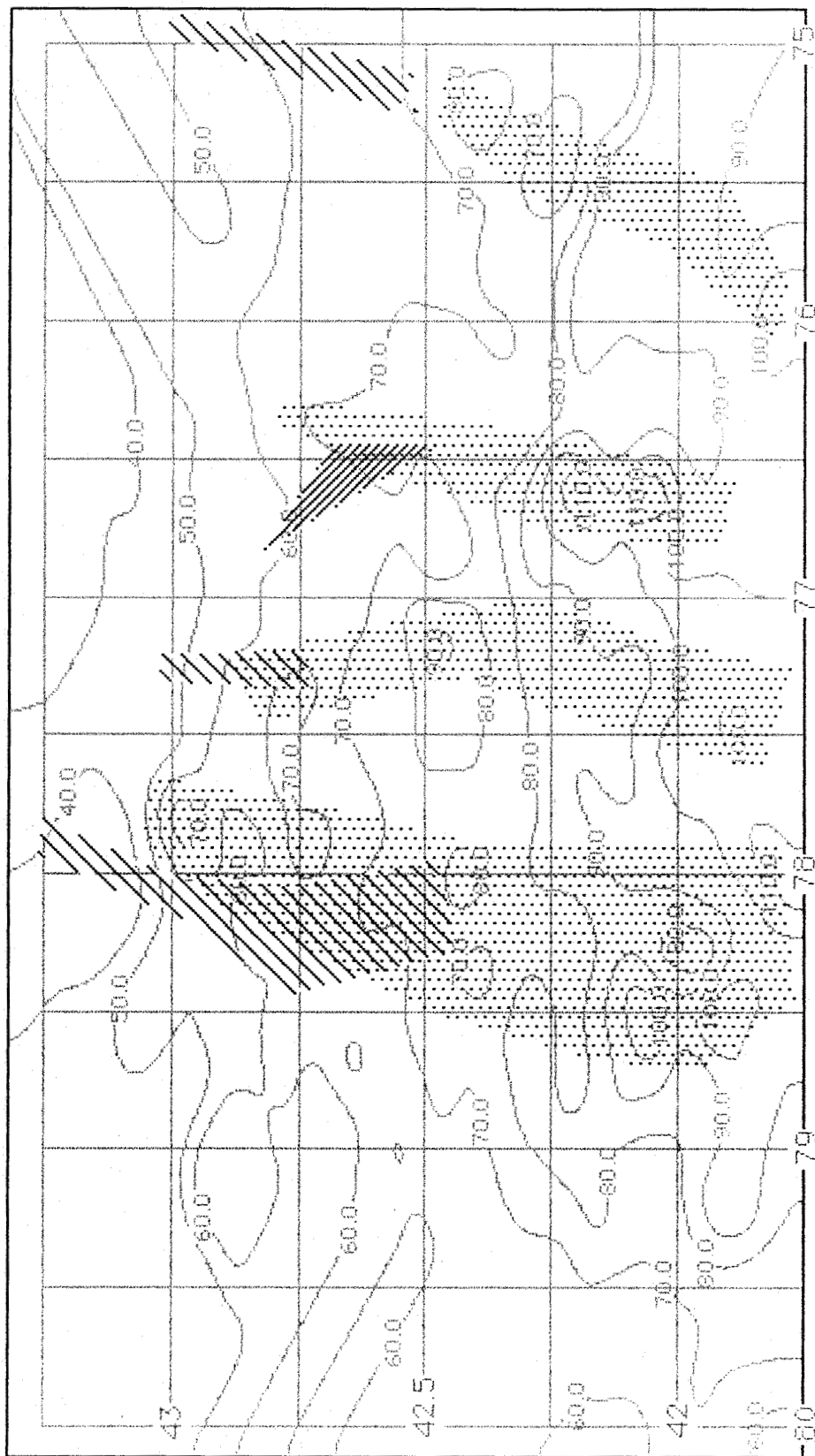
The regional geological structure of western and central New York State is fairly simple, with the Paleozoic sequence generally dipping to the south at 8 m/km in a broadly arched homocline. Although the Devonian rocks (408-360 m.y.) are nearly flat-lying, with only minor gentle folding in a few localities, buried structures in the Cambrian (540-505 m.y.) and Ordovician rocks (505-438 m.y.) are common, especially in south central New York State. These structures, which are typically highly fractured small-amplitude anticlines, are unconformably overlain by the Devonian rocks. They can be located by seismic analysis, and have recently been recognized as exploration targets by the oil and gas industry because the Cambrian and Ordovician rocks within them typically have fracture-enhanced porosity near the fold hinges, and they may act as hydrocarbon traps.

Two major types of faults could be related to enhanced permeability in the Theresa Formation: 1) subvertical faults, and 2) subhorizontal (thrust) faults. Subvertical faults intersect the surface in only one restricted area of western New York State. These faults comprise the Clarendon-Linden Fault System, which runs from Allegany County in the south at least to the Lake Ontario shoreline in western Monroe County [Van Tyne, 1975]. North of Allegany County, the system is relatively well-mapped. To the south, however, there are few data available on the nature of the system, and the extent of the fault in Allegany County is poorly known [Jacobi and Fountain, 1993]. In its central section the fault zone consists of up to six step faults or perhaps monoclinial features with a down-to-the west sense of apparent motion. Other subvertical faults with apparent normal slip offset Theresa strata in the center of the state and are associated with enhanced flow of deep-seated waters [Pferd, 1981]. These faults do not break surficial units and, therefore, cannot be traced further than their known extent, which has been determined by geophysical techniques. Some of the highest groundwater flow rates in the Cambrian section occur along the Clarendon-Linden system [Pferd, 1981], and following the Saguenay earthquake of 1988, deep-seated natural gas was released along its locus [Jacobi and Fountain, 1993]. The other subvertical faults also are associated with particularly strong groundwater shows, and the high flow rates suggest that the subvertical faults could act as important conduits for the introduction of deep-seated geothermal fluids into the Paleozoic section. This hypothesis is supported by the admittedly less well-resolved temperature data for the Theresa Formation. Some of the

highest temperatures in the Cambrian strata occur along the trends or the continuations of the trends of the subvertical faults (Figure 2-1). The occurrence of these temperatures in proximity to the structures suggests that the structures do indeed act as conduits for the upward flow of high temperature waters from within the Precambrian basement.

It is possible that numerous low-angle or bedding plane thrust faults offset the stronger carbonate units of the Paleozoic sequence of western and central New York State [Isachsen et al., 1991]. However, only one possible thrust fault has been identified in the region. The Bass Island Thrust or Structure is a complex faulted antiform that trends southwest in the subsurface through Erie, Cattaraugus, and Chautauqua counties. It does act as a structural trap, and is a target for oil and gas drilling [Isachsen et al., 1991]. There is enhanced groundwater flow near its locus, but no associated strong temperature anomaly, such as those associated with the subvertical structures [Pferd, 1981]. This is consistent with the structure, enhancing permeability through pervasive secondary fracturing but not drawing high-temperature fluids from the basement because of its low angle and lack of penetration into the basement rocks.

The other structural features that may be associated with enhanced groundwater flow or higher temperature within the State are the kimberlite-alnoite dikes of central New York State [Martens, 1924]. Eighty-two of these ultramafic dikes have been identified in the Ithaca region, with strikes generally within 15° of N-S [Foster, 1971]. Since the dikes are 135-145 m.y. old [Zartman et al., 1967], it is highly unlikely that any high temperatures encountered near them could be the result of the thermal anomaly that would have been associated with their emplacement. Nevertheless, the highest temperatures in the Cambrian section occur along the strike of these dikes in the southern tier (Figure 2-1), suggesting that there may be some unknown link between the dikes and modern thermal anomalies.



Contour map of temperatures at the bottom of the Theresa Formation



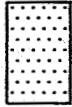
-  Subvertical faults; CLF = Clarendon-Linden Fault
-  Kimberlite-alnoite dikes
-  Ridges of high temperature anomalies

Figure 2-1. Comparison of structural features and Theresa Formation temperatures.

Section 3

PREVIOUS STUDIES OF TEMPERATURES IN SUBSURFACE

The work of Birch et al. (1968) and Lachenbruch and Sass (1977) has established that the eastern United States is a region of lower heat flow compared to the western United States. Birch et al. (1968) found a linear relation between heat production and heat flow and showed that there are heat flow provinces with distinctly different heat flow from deep sources, and the depth of significant heat production also varies. In the general sense, local variation in heat flow is interpreted to be the result of different heat production within the upper crust (Birch et al., 1968). Using this empirical linear relation, Birch et al. found that the heat flow from deep sources was 33 mW/m^2 for the eastern United States.

Several studies have reported heat flow values in New York State. Birch et al. (1968) gave measured values ranging from 33 to 50 mW/m^2 in eastern New York State and the Adirondacks. Urban (1970) reported a heat flow value of 63 mW/m^2 near Balmat, New York, values of 67 and 80 mW/m^2 in the Finger Lakes region, and heat flow values ranging from 50 to 54 mW/m^2 in western New York State.

Hodge et al. (1979, 1980, 1981, 1984) identified areas of higher-than-normal temperature gradients in western and central New York State using bottom-hole temperatures recorded during logging operations of gas wells. Apparent correlations of thermal conductivity with lithologic stratigraphy were used to model thermal conductivity distributions in the area, and then a heat flow map (Hilfiker, 1981) was produced using calculated temperature gradients.

HEAT FLOW AND TEMPERATURES IN NEW YORK STATE

Heat flow at the earth's surface can be calculated using the equation for the steady-state flow of heat in one-dimension in a thermally conducting, isotropic body.

The heat flow equation is

$$Q = K (\partial T / \partial z) \quad (1)$$

where Q is the heat flux in units of mW/m^2 , K is the thermal conductivity in units of $W/m^\circ C$, and $\partial T/\partial z$ is the thermal gradient (where z is the distance measured vertically downward and T is temperature) in units of $^\circ C/km$. If the rocks composing the outer layers of the earth were of a constant conductivity, then heat flow could be calculated simply by measuring the temperature at any two depths and the thermal conductivity of the rock. This simplification is usually not the case.

If the average geothermal gradient (\bar{G}) is measured using the temperature obtained at two depths, and this gradient is taken in an area of horizontally layered rocks, the heat flow can then be calculated if the thermal conductivity of each layer is known. Consider the case where there are n discrete layers of conductivity K_1, \dots, K_n and thickness t_1, \dots, t_n . Then a weighted mean harmonic conductivity (K_{mh}) of the layered section is given by

$$K_{mh} = (t_1 + \dots + t_n) \left(\frac{t_1}{K_1} + \dots + \frac{t_n}{K_n} \right)^{-1} \quad (2)$$

and the heat flow is calculated by

$$Q = K_{mh} \bar{G} \quad (3)$$

When continuous measurements of temperature at depth are available over the section containing constant conductivity layers, the gradient in each layer should be linear (i.e., $\partial T/\partial z$ is constant) and the heat flow calculated from successive layers should be constant. The ratio of one measured layer gradient to another will be inversely proportional to the ratio of their respective thermal conductivities, as required by the assumption of steady-state heat flow.

Heat flow values for upstate New York shown in Figure 3-2 were calculated from temperature logs and conductivity samples for several boreholes in the study area (Figure 3-1) (Hodge and Fromm, 1984). In this area oil and gas wells are typically drilled using air percussion drills for most of their length. This drilling disturbs the actual temperatures by the circulation of air and formation fluid from different levels. Wells are then often cased, plugged at the bottom, and may be left standing for a period of time before they are completed. During this time equilibrium temperatures are reestablished;

logging of these wells was done at least 3 days after drilling and cementing of the casing took place.

Another borehole used was a geothermal test well in Auburn, New York, which was drilled in February 1982. A detailed equilibrium log was finally completed to a depth of 2000 feet. Thermal conductivity of rock chips collected during drilling operations was measured using a needle probe apparatus. Geophysical logs were available for porosity estimation to correct the bulk rock conductivity measured to the actual in situ conductivities. This well yielded a heat flow value of 65 mW/m^2 (Hodge and Fromm, 1984)

The Winspear #1 (#13571) well is located in the Middlebury Township in Wyoming County, New York, (8375' south of $42^\circ 52' 30''$ latitude and 3330' west of $78^\circ 05' 00''$ longitude). The temperature-depth data (Table A-1) plotted in Figure 3-3 shows a distinct change in gradient at a depth of 232.5 m. This corresponds to the change in lithology from the shales of the Middle Devonian Hamilton Group to the Middle to Lower Devonian Onondaga Limestone. Below this depth, the least squares gradient is 15.3°C/km , which contrasts sharply with the gradient of 31.2°C/km over 130.6 - 232.5 m and 24.9°C/km over 86.0 - 130.6 m. Thermal conductivity measurements (Table A-2) in smaller intervals selected on the basis of uniformity of lithology show a definite inverse relation to gamma-ray activity and gradient; low conductivity sedimentary rocks, typically shales, display high gamma-ray activity (an indicator of relative shaleness) and relatively high gradients. The values for the gradients, mean harmonic conductivity (K_{mh}), and calculated heat flow (Table A-3) in the major intervals are shown in Figure 3-4. The K_{mh} for the deepest interval is $2.7 \text{ W/m}^\circ\text{C}$; and the calculated heat flow is 41.3 mW/m^2 . The shale interval directly overlying the Onondaga has a K_{mh} of $1.49 \text{ W/m}^\circ\text{C}$ and a heat flow value of 46.4 mW/m^2 . In the shallowest interval, K_{mh} is $1.84 \text{ W/m}^\circ\text{C}$ and the heat flow is 45.7 mW/m^2 . Therefore, 41.3 mW/m^2 has been chosen as the best value for heat flow measured at this site.

Hodge and Fromm (1984) reported a heat flow of 64 mW/m^2 for well #15529, which is located on the east side of Cayuga Lake at Wells College (Table A-4). This heat flow is above the average of $50\text{-}54 \text{ mW/m}^2$ obtained in western New York but similar to the heat flow obtained by Urban (1970) for the Finger Lakes region. The heat flow data and the bottom hole data from Hodge and Fromm (1984) indicate that the Fingerlake district is a region of higher than normal heat flow.

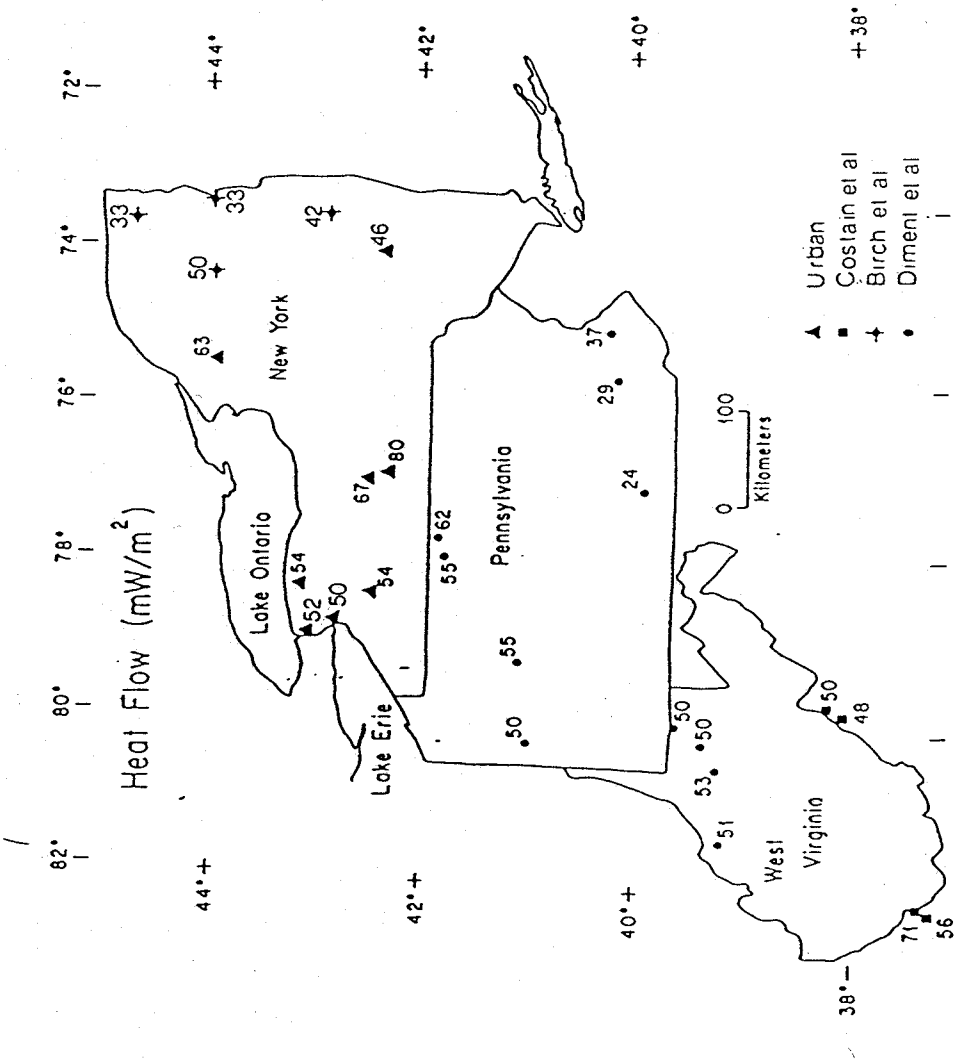


Figure 3-2. Heat flow values (mW/m^2) for upstate New York.

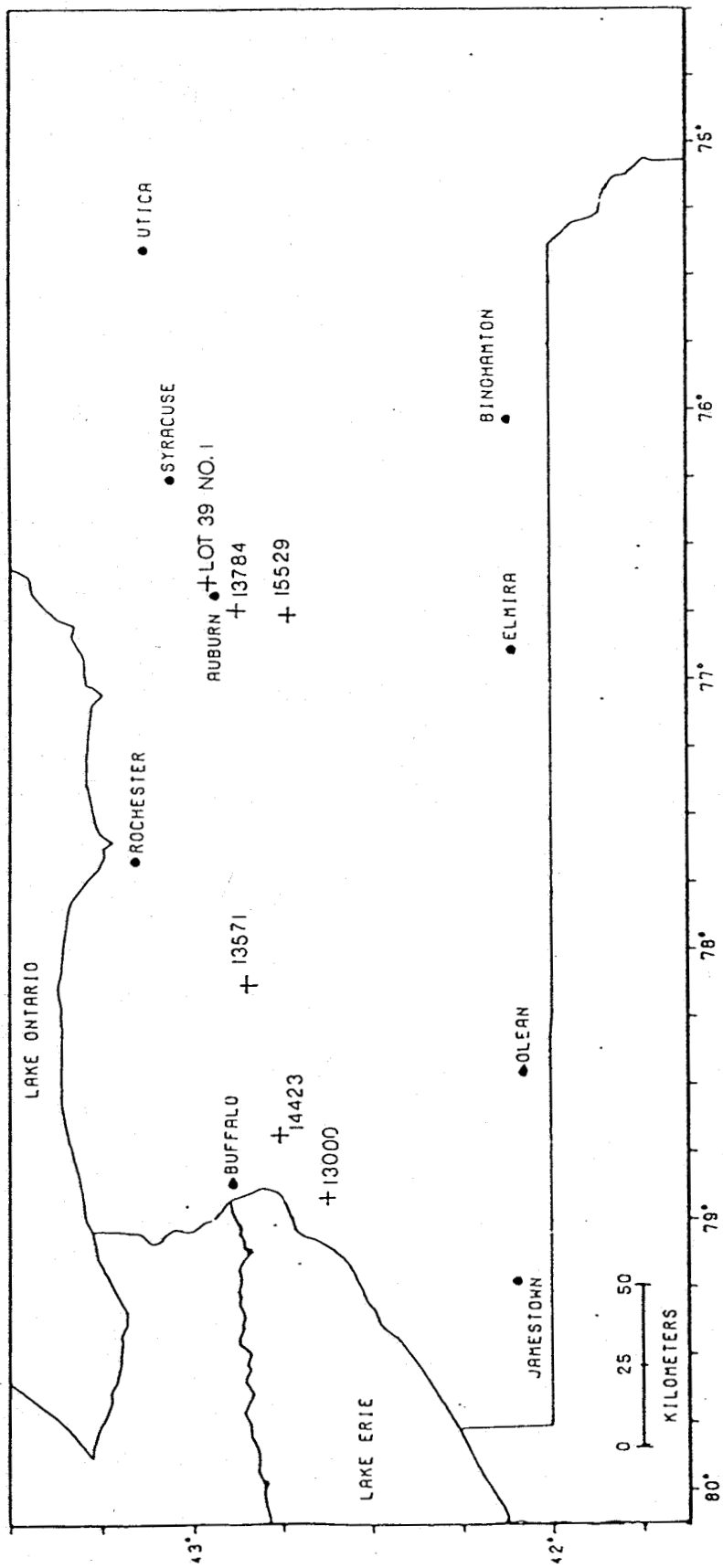


Figure 3-1. Location of wells used for heat flow and conductivity determinations.

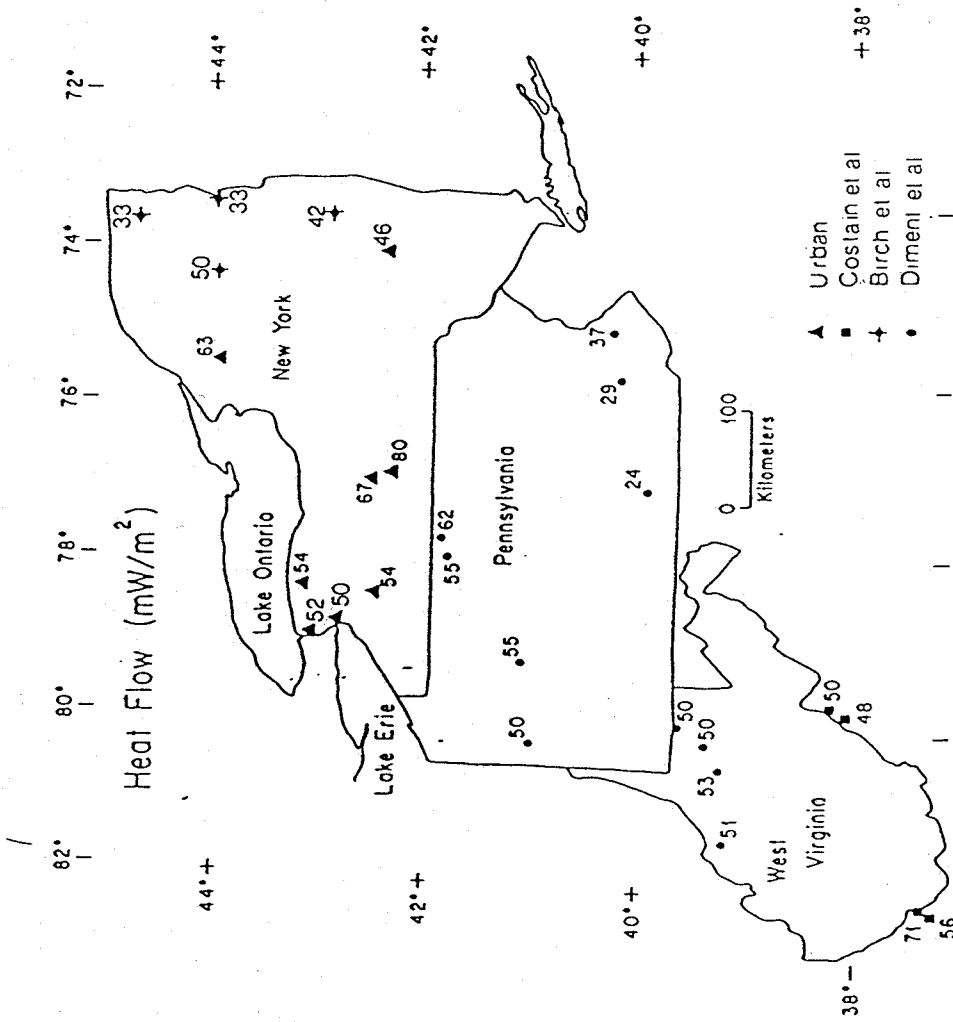


Figure 3-2. Heat flow values (mW/m^2) for upstate New York.

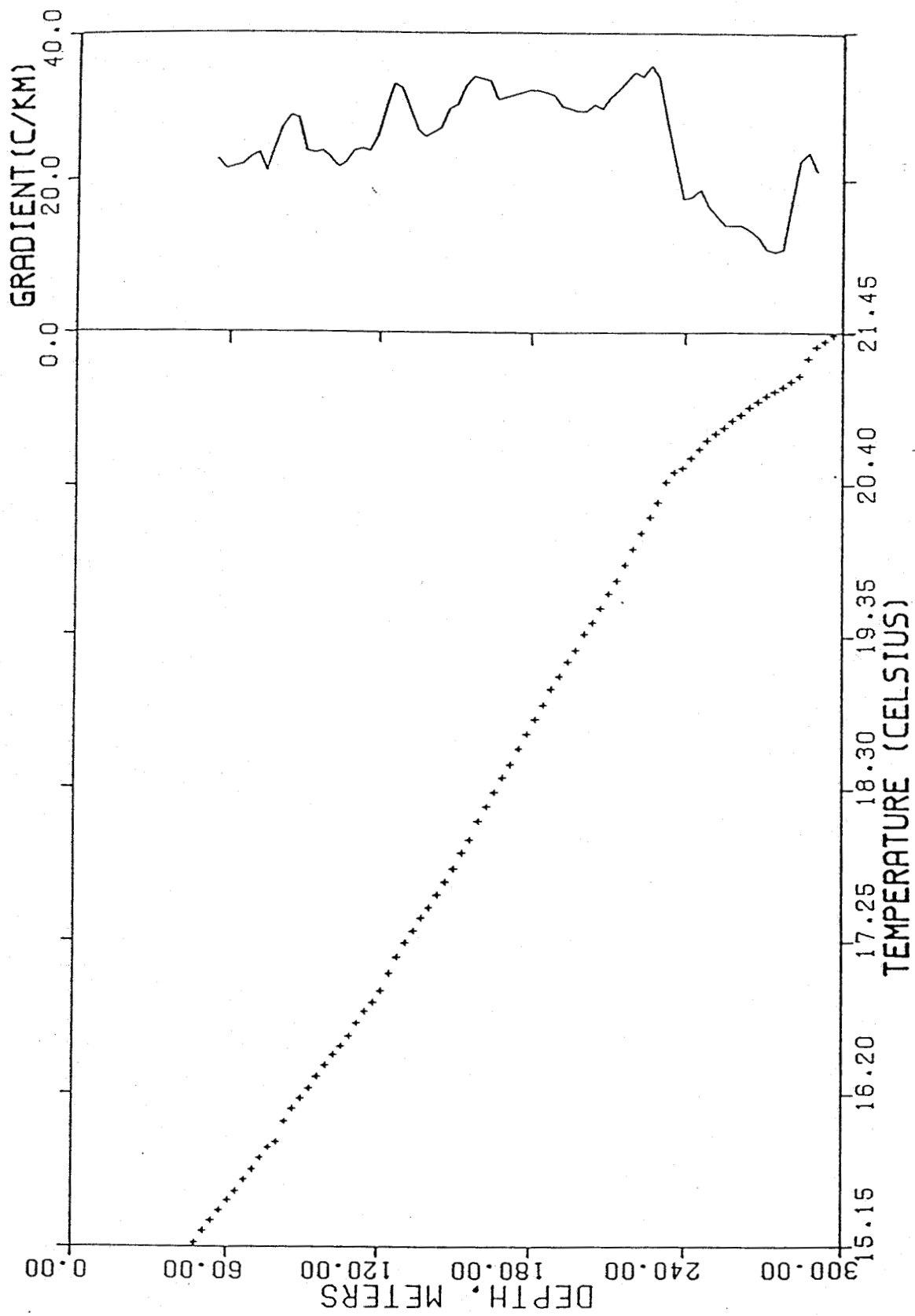


Figure 3-3. Temperature versus depth and gradients for well #13571.

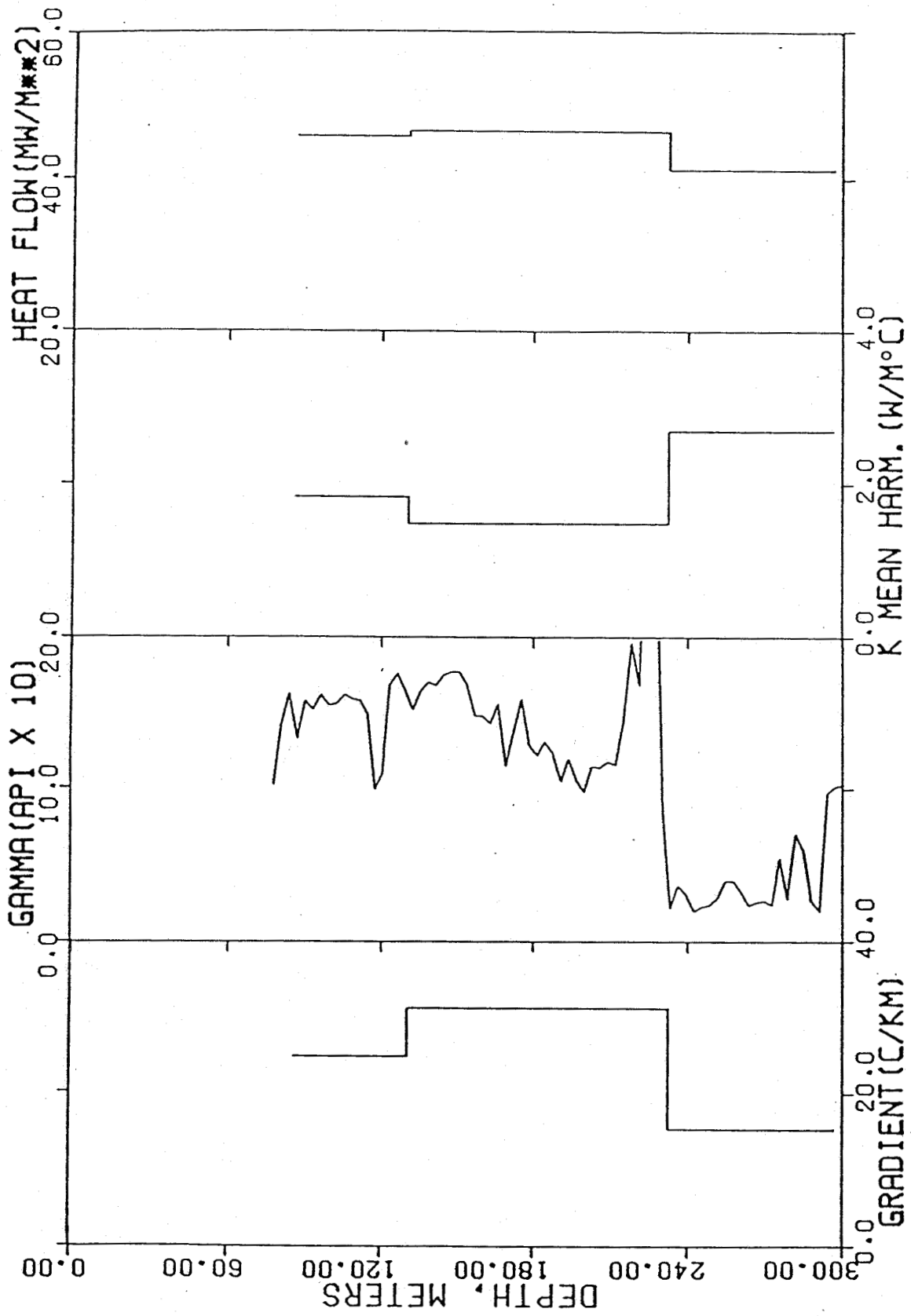


Figure 3-4. Comparison of interval gradients, gamma-ray activity, mean harmonic conductivity, and heat flow for well #13571.

CORRELATION OF THERMAL CONDUCTIVITY AND SEDIMENTARY STRATIGRAPHY

Figure 3-5 shows a distinct change in the geothermal gradient with depth. The stratigraphic layers at this location are shown and the correlation of change in thermal gradients with stratigraphic layers is evident. Hodge and Fromm (1984) measured numerous samples of the stratigraphic units in New York and the average thermal conductivity for the respective units is shown in Table 3-1.

Table 3-1
Thermal conductivity model for western
and central New York.

| LAYER # | STRATIGRAPHY: LITHOLOGY | CONDUCTIVITY (W/m C) |
|---------|---|-------------------------|
| 1 | Upper-Middle Devonian: Shale with limestone interbeds | 1.67 |
| 2 | Onondaga Limestone-Medina Group: Limestone with interbedded shale, some sandstone | 2.2 |
| 3 | Queenston Formation-Lorraine Group: Predominantly shales in the west, more sandstone in upper section to the east | Variable 1.64 - 2.65 |
| 4 | Trenton Group-Little Falls Formation: Interlayered limestone and shale near the top and dolostones toward the base | 2.95 |
| 5 | Theresa Formation-Potsdam Formation: Quartzose dolostones and dolostones near the top and sandstones at the base | 4.9 |
| 6 | Precambrian: Crystalline basement | 2.93 |

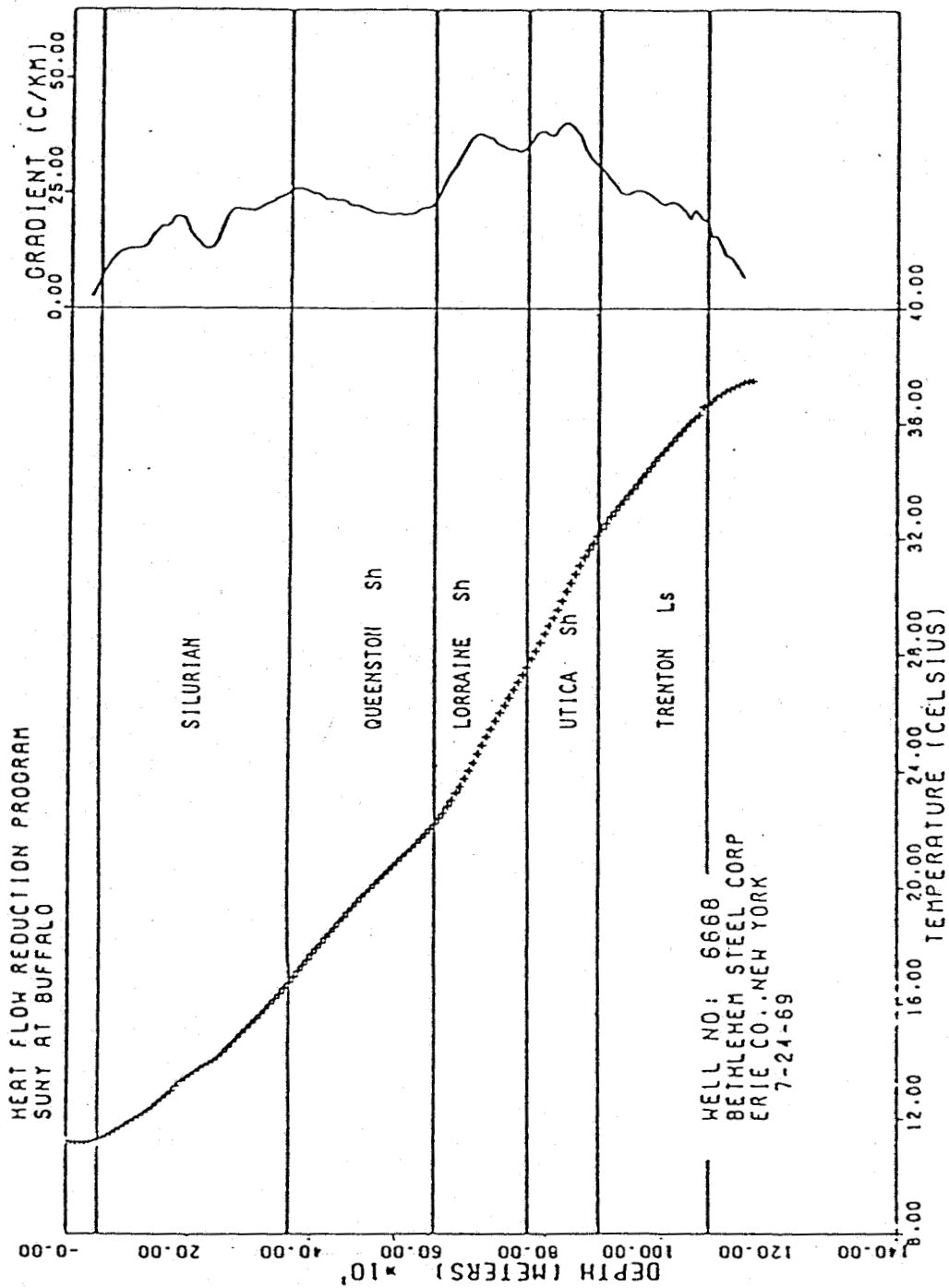


Figure 3-5. Temperature depth plot and correlation of temperature gradients with stratigraphic formations for well #6668.

Section 4
POTENTIAL GEOTHERMAL RESERVOIRS

Due to the limited availability of sites for the direct measurement of heat flow, it is desirable to develop a technique for predicting heat flow based on other data sources. This is necessary if temperature-at-depth distributions are to be determined on a regional scale.

Bottom-hole temperatures (BHT) recorded during routine electrical logging of gas wells comprise the data set used in our geothermal heat flow studies. These can then be used in conjunction with the mean annual surface temperature to estimate average geothermal gradients. However, the presence of stratigraphic layers with differing conductivities precludes the simple projection of the gradient so obtained. The heat flow and the vertical conductivity distribution must be determined if temperatures other than the BHT are desired.

To determine the geothermal gradient at distributed sites across the study area, a data set of 2001 bottom-hole temperatures obtained from the Department of Environmental Conservation (DEC) in Avon and Olean, New York State (Table A-6 and Figure 4-1) along with 41 mean annual surface temperatures recorded at National Oceanographic and Atmospheric Administration (NOAA) weather stations in western and central New York State and northern Pennsylvania (Table 7) was assembled. Trend analysis of the temperature distribution produced a first order equation

$$T_s = 12 - .0098 \cdot h \quad (4)$$

where T_s is the surface temperature in °C and h is the ground elevation in meters, as a best fit model. Mean annual surface temperatures at each well site was then calculated by solving the polynomial for T_s . Average geothermal gradient is then the BHT minus the surface temperature divided by the depth of the BHT.

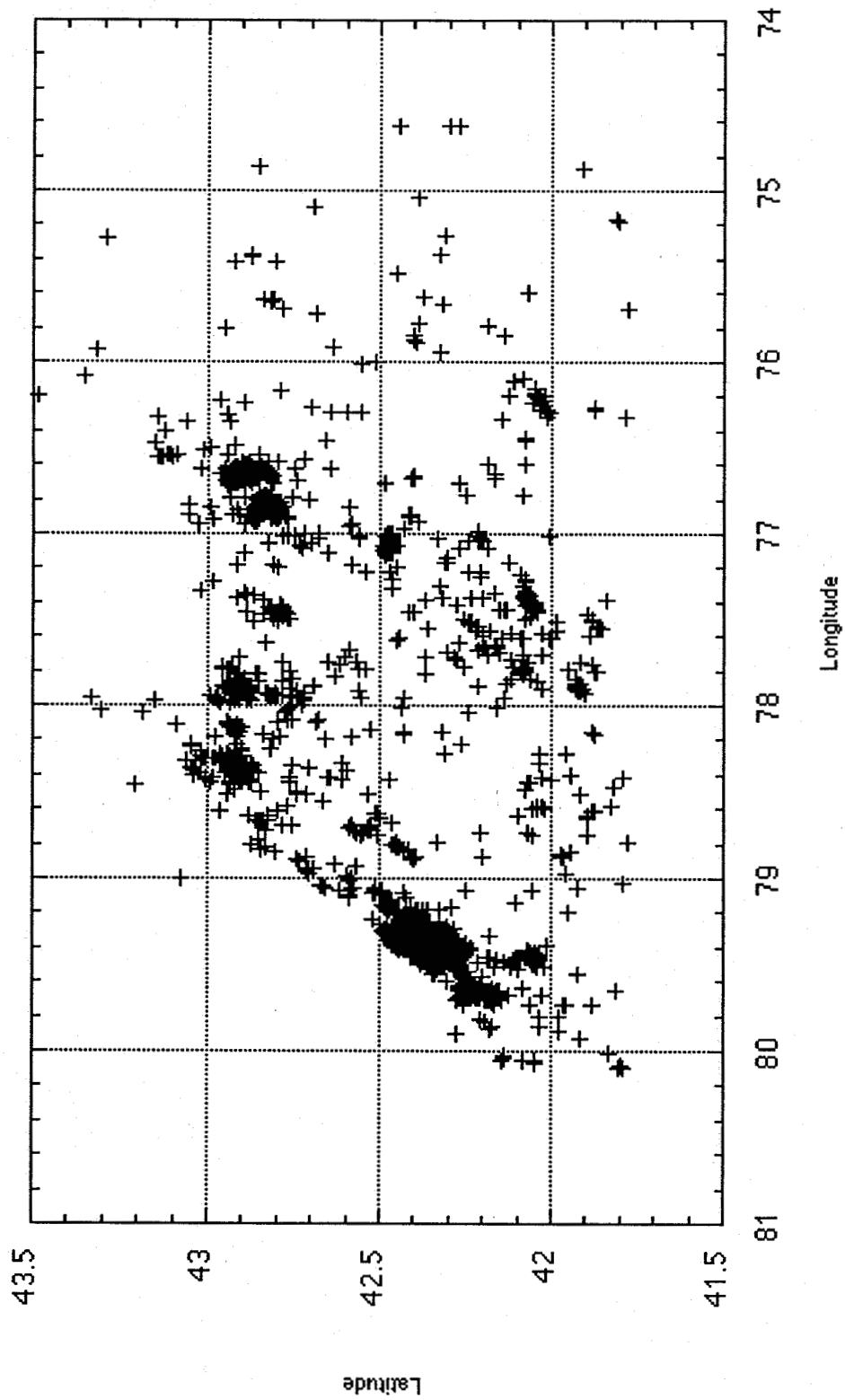


Figure 4-1. Locations of wells with available bottom-hole temperatures.

The presence of distinct changes in gradient, and therefore conductivity, with lithostratigraphic layers, suggests that the vertical distribution of conductivity in the study area can be modeled based on well records of the depths of the layered horizons. If the conductivity and thickness of each layer is known for the location of a gradient estimate, then the mean harmonic conductivity of the interval the gradient passes through can be determined. Heat flow can then be based on this gradient and conductivity. This method is discussed in the following section and is shown schematically in Figure 4-2.

The average geothermal gradient (\bar{G}), as described earlier, is calculated by

$$\bar{G} = \frac{T_{BHT} - T_s}{z_{BHT}} \quad (5)$$

where T_{BHT} is the bottom-hole temperature, T_s is the surface temperature, and z_{BHT} is the depth of the BHT. For the case where there are n discrete layers of conductivity K_1, \dots, K_n with thicknesses t_1, \dots, t_n , a weighted mean harmonic conductivity (K_{mh}) of the layered section is given by

$$(t_1 + \dots + t_n) \left(\frac{t_1}{K_1} + \dots + \frac{t_n}{K_n} \right)^{-1} \quad (6)$$

If the depth of the BHT is located some depth p below the top of the i^{th} conductivity layer the K_{mh} is given by

$$(t_1 + \dots + t_{i-1} + p) \left(\frac{t_1}{K_1} + \dots + \frac{t_{i-1}}{K_{i-1}} + \frac{p}{K_i} \right)^{-1} \quad (7)$$

where t_1, \dots, t_{i-1} is the thickness of the overlying conductivity layers and K_1, \dots, K_i is the conductivity of each layer. The heat flow Q can then be calculated as in equation 3, $Q = K_{mh} \bar{G}$. For the i^{th} layer, the gradient is given by

$$\left(\frac{dT}{dz} \right)_i = \frac{Q}{K_i} \quad (8)$$

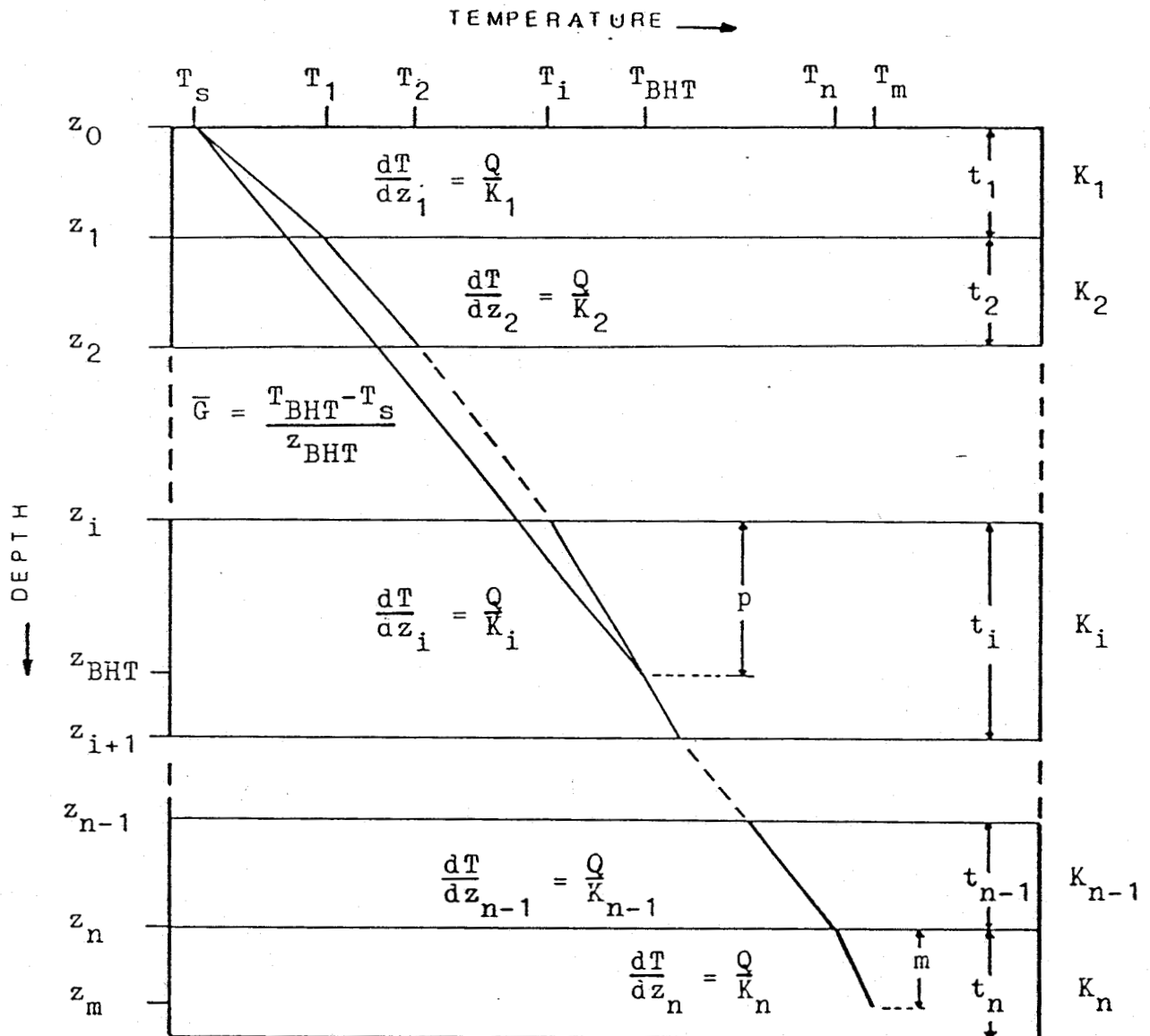


Figure 4-2. Thermal conductivity layer model for heat flow and temperature at depth determinations.

The temperature at the top of the n^{th} layer (T_n) is given by

$$T_n = \sum_{i=1}^{n-1} t_i \left(\frac{dT}{dz} \right)_i + T_s \quad (9)$$

while the temperature at a depth m below the top of the n^{th} conductivity layer is given by

$$T_m = \sum_{i=1}^{n-1} t_i \left(\frac{dT}{dz} \right)_i + m \left(\frac{dT}{dz} \right)_n + T_s \quad (10)$$

Finally, the depth (d_x) to a particular temperature (T_x) can be found, provided $T_n \leq T_x \leq T_{n+1}$, by

$$d_x = \sum_{i=1}^{n-1} t_i + \frac{(T_x - T_n)}{\left(\frac{dT}{dz} \right)_n} \quad (11)$$

A six-layer conductivity model was chosen based on observed major gradient changes in temperature logs that correlate with the tops of stratigraphic units in western and central New York State. These layers are: 1) Devonian shales that outcrop at the surface to the south of approximately 43° latitude; 2) the Onondaga Limestone through the top of the Queenston Formation mostly composed of limestones and dolostones with minor shale beds; 3) the Queenston Formation through the Lorraine Group primarily composed of shales in the west becoming predominantly sandstone in the upper part of the section in the eastern part of the study area; 4) the Trenton Group through the Little Falls Formation, including interlayered limestone and shale near the top and dolostones toward the base; 5) the Theresa Formation through the Potsdam Formation comprising quartzose dolostones and dolostones near the top and sandstones at the base; and 6) the crystalline Precambrian basement.

The thermal conductivity value used for the Devonian shales was based on measurements made at the Winspear #1 well and on the work of Urban (1970). Urban reported a value of 1.67 W/m°C for the Devonian section in Himrod, New York which is intermediate to the values of 1.84 and 1.49 W/m°C obtained at the Winspear #1 well. These values may be greater than the actual in situ conductivity because of anisotropic conduction effects in the chip technique. The value obtained by Urban is a better overall conductivity to assign to this layer because Urban used core samples measured on a divided-bar apparatus.

The thermal conductivity for the Onondaga Formation from the Winspear #1 well is 2.33 W/m°C. However, this value is probably slightly too high to apply to the entire area due to the variability of shale thickness. A value of 2.2 W/m°C was chosen based on the ratio of gradients between the Devonian shales and the Onondaga layer and the Devonian shale value itself.

From the work of Urban, the mean harmonic conductivity of the sequence from the top of the Queenston Formation to the top of the Trenton Group is estimated to be 1.64 W/m°C for well #6668 in western Niagara County. From the Auburn Lot 39 #1 well, the conductivity value is 2.65 W/m°C. The conductivity at the Auburn well is higher because the Queenston Formation contains more sandstones in the eastern than in the western part of New York State. Since evaluating the nature of this facies change would require an extensive study in itself, an average value of 2.15 W/m°C was chosen for this layer.

The thermal conductivity value used for the Trenton Group and Theresa Formation was 2.95 W/m°C and 4.9 W/m°C, respectively. These values were based on measurements of samples from the Auburn well. The variability of the basement prevented the use of using actual thermal conductivity measurements in this case. A value of 2.93 W/m°C, typical of a gneissic rock, was assumed instead. This effect is not significant to the determinations of heat flow since very few of the BHT wells penetrated to this depth.

Data for the tops of the Onondaga, Queenston, Trenton, Theresa, and basement were compiled directly from drilling logs (Table A-8) and from maps previously produced from Hodge and Fromm (1982). A trend surface analysis, using the program Mathematica, was performed on the data set in order to predict the depth of each of the formations

below sea level. The structure contour maps of each formation were produced using Spyglass, a data imaging/contouring program. All contour maps of the depth of formations were made creating a 45 x 45 matrix and kernel smoothing fill method in Spyglass.

A structure contour map of the top of the Onondaga Limestone was computer-generated from 572 data points in the study area (Figures 4-3 and 4-4). Trend surface analysis showed a third order polynomial

$$-20849.1 - 42.6355*y^3 + 71.2848*y^2*x - 39.4924*y*x^2 + 7.29525*x^3 \quad (12)$$

where y is degrees latitude and x is degrees longitude, as a best fit model for this horizon. This defines the base of the Devonian shales and the top of the Onondaga - Medina conductivity layers. Each BHT well to the north of the Onondaga outcrop (approximately 200m above sea level along 43° latitude) was checked individually to make sure the absence of control in the trend surface did not allow for the prediction of a greater Onondaga horizon height than that which actually exists.

The structure contour map of the Queenston Formation was prepared from a data set of 393 points (Figures 4-5 and 4-6). Trend surface analysis again showed a third order polynomial

$$-22307 - 119.464*y^3 + 195.692*y^2*x - 106.635*y*x^2 + 19.3749*x^3 \quad (13)$$

as a best fit model for the top of the Queenston horizon. The Trenton Group structure contour map was prepared from 219 data points (Figures 4-7 and 4-8). A third order polynomial

$$-24787.6 - 5.85183*y^3 + 12.5806*y^2*x - 8.28581*y*x^2 + 1.77546*x^3 \quad (14)$$

was calculated to predict the top of the Trenton Group. A structure contour map of the top of the Theresa Formation was prepared from 132 available data points (Figures 4-9 and 4-10), with trend surface analysis producing a third order polynomial as a best fit model

$$-24745 + 63.2879*y^3 - 99.4326*y^2*x + 52.1758*y*x^2 - 9.09848*x^3 \quad (15)$$

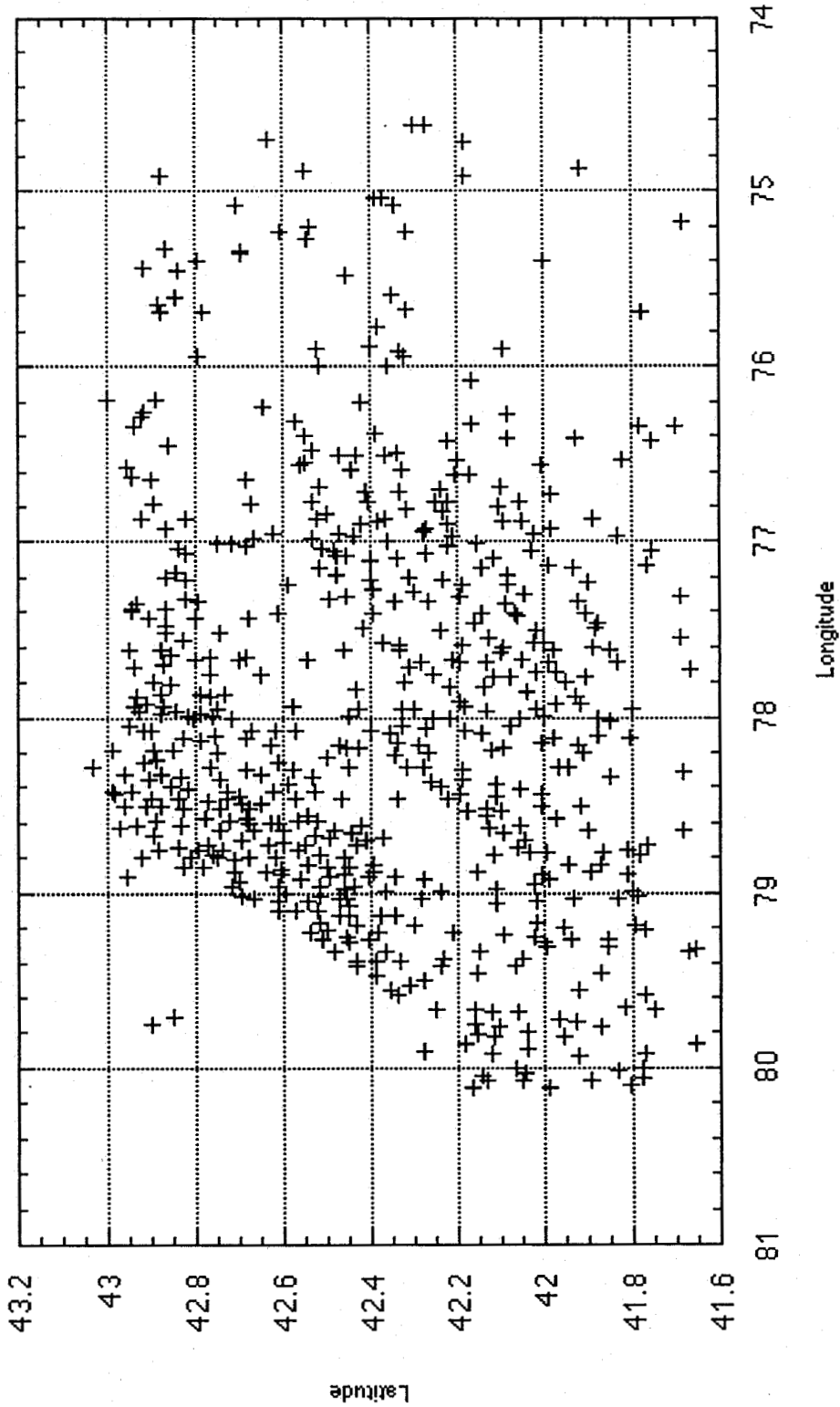


Figure 4-3. Location of wells with depth to the O nondaya that were used for the trend surface analysis.

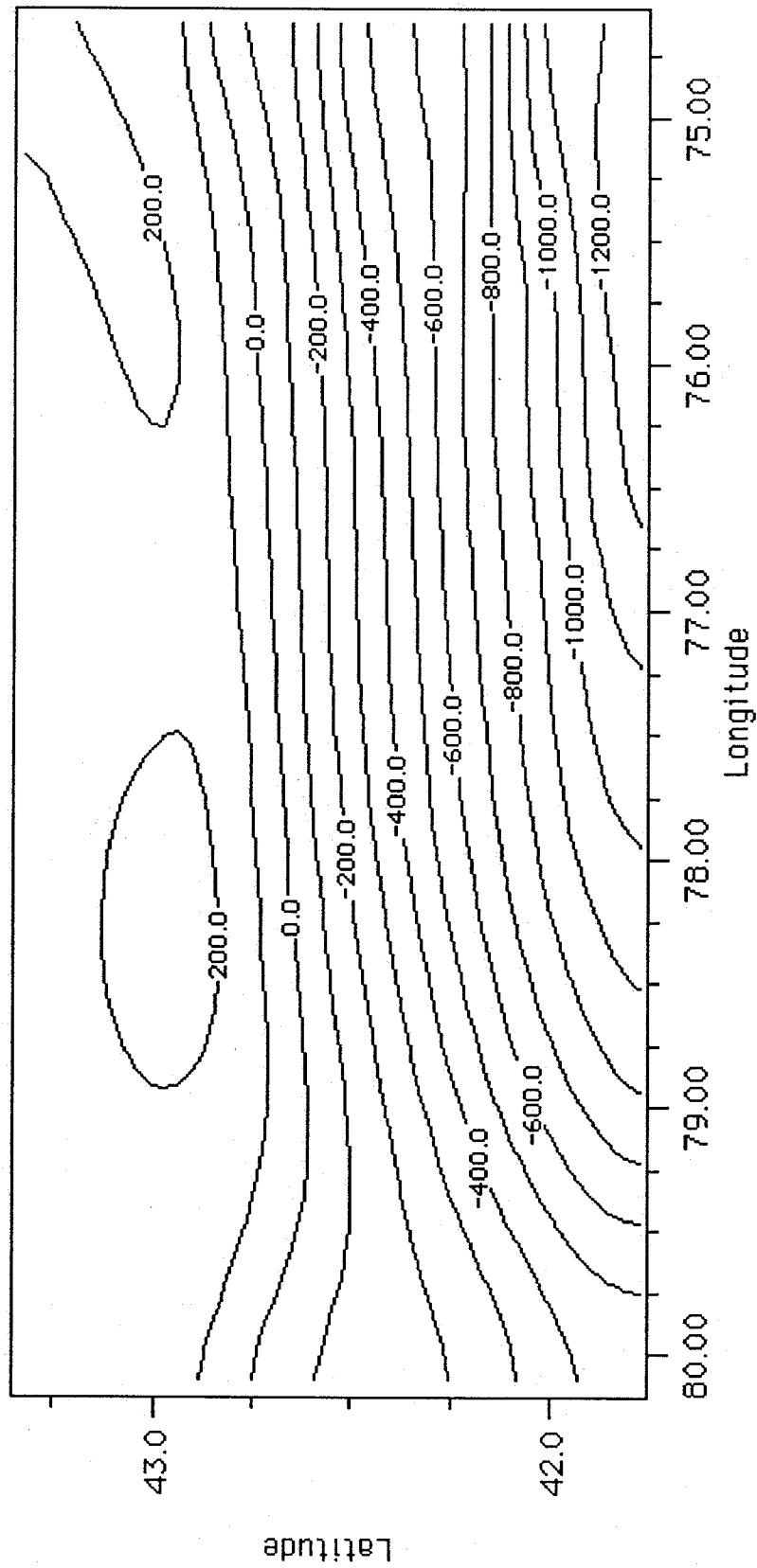


Figure 4-4. Third order trend surface of the depth in meters (sea level datum) to the top of the Onondaga Formation.

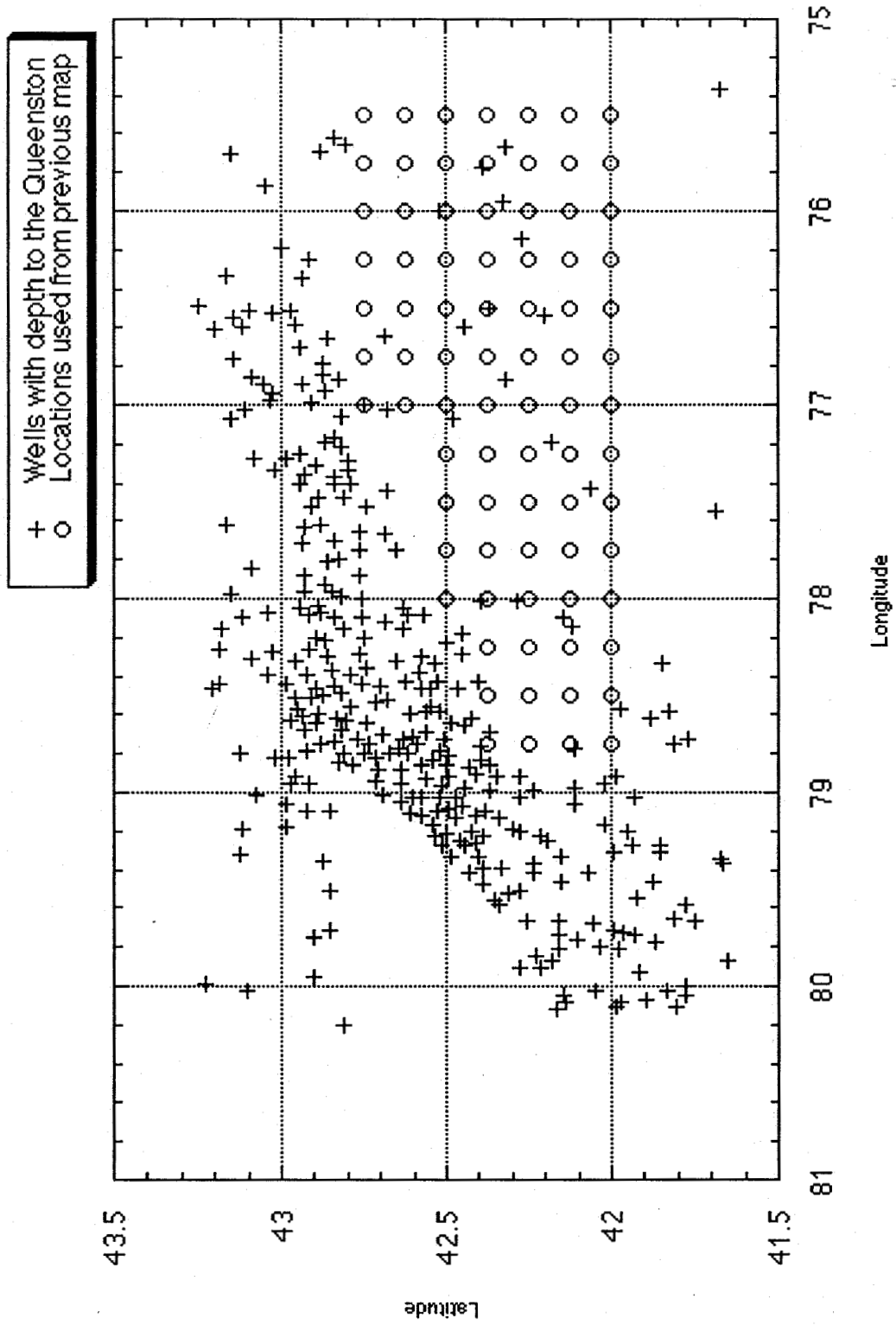


Figure 4-5. Location of wells with depth to the Queenston and location of data points from a previously made map that were used for the trend surface analysis. (Hodge and Fromm, 1982, p. 47)

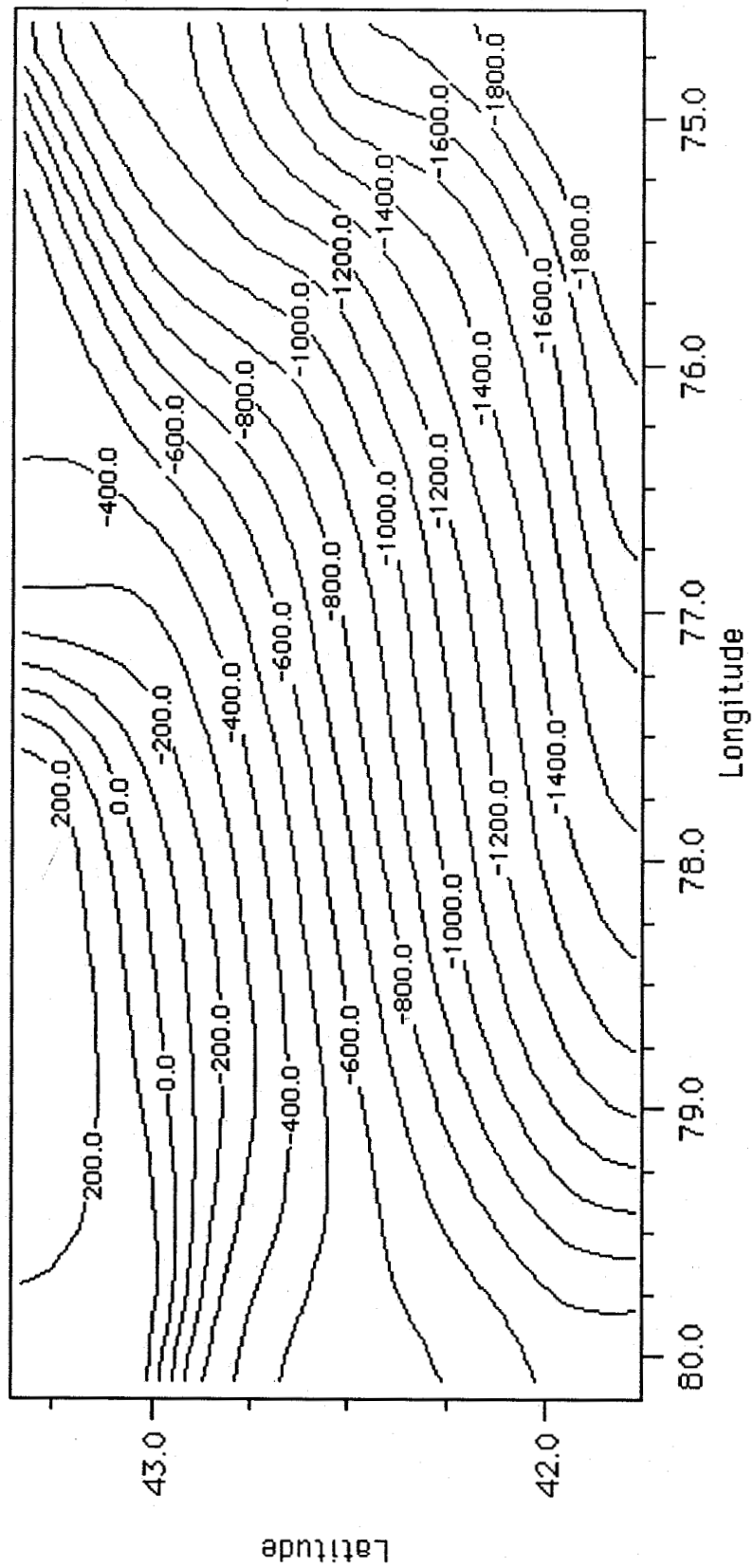


Figure 4-6. Third order trend surface of the depth in meters (sea level datum) to the top of the Queenston Formation.

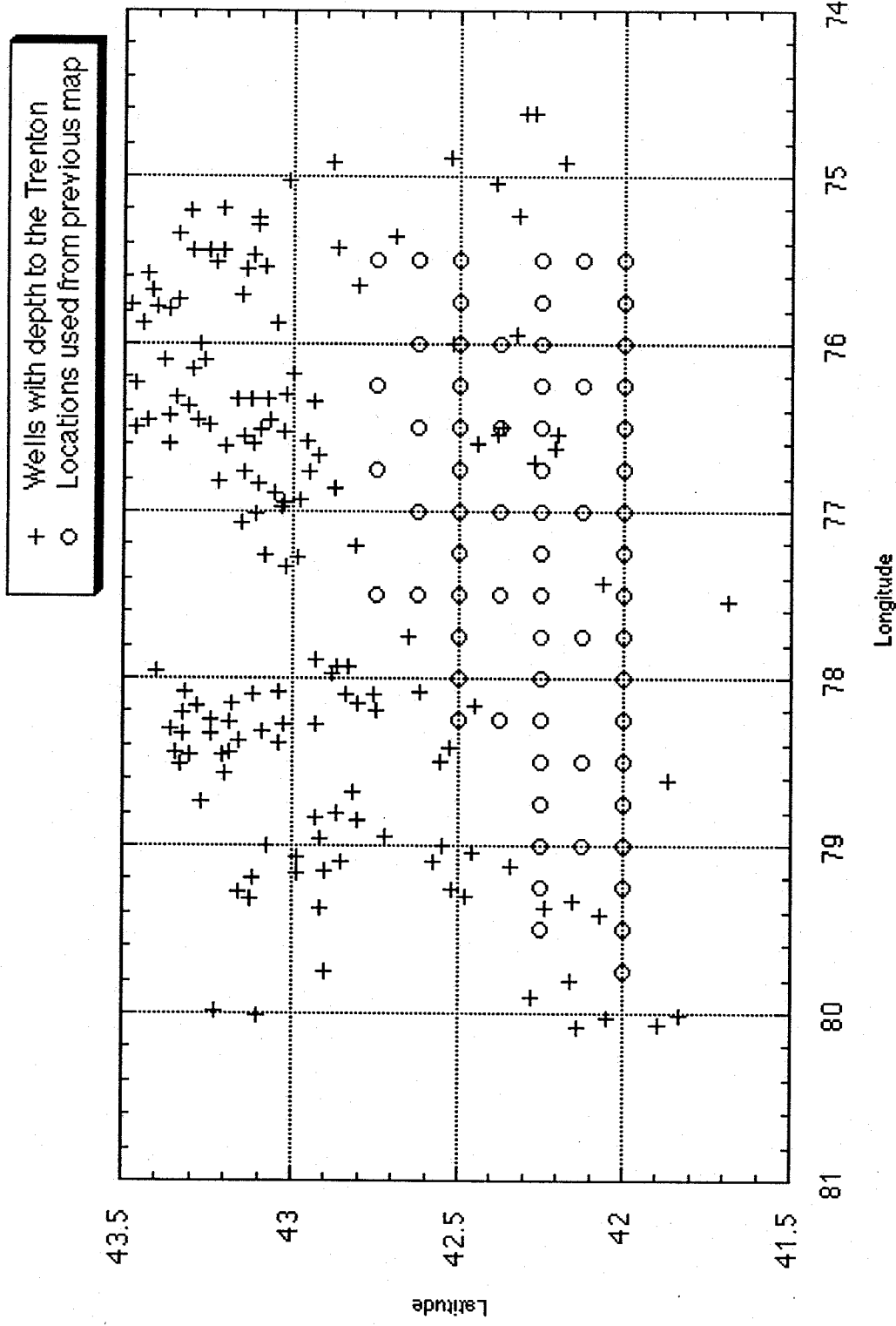


Figure 4-7. Location of wells with depth to the Trenton and location of data points from a previously made map that were used in the trend surface analysis. (Hodge and Fromm, 1982, p. 50)

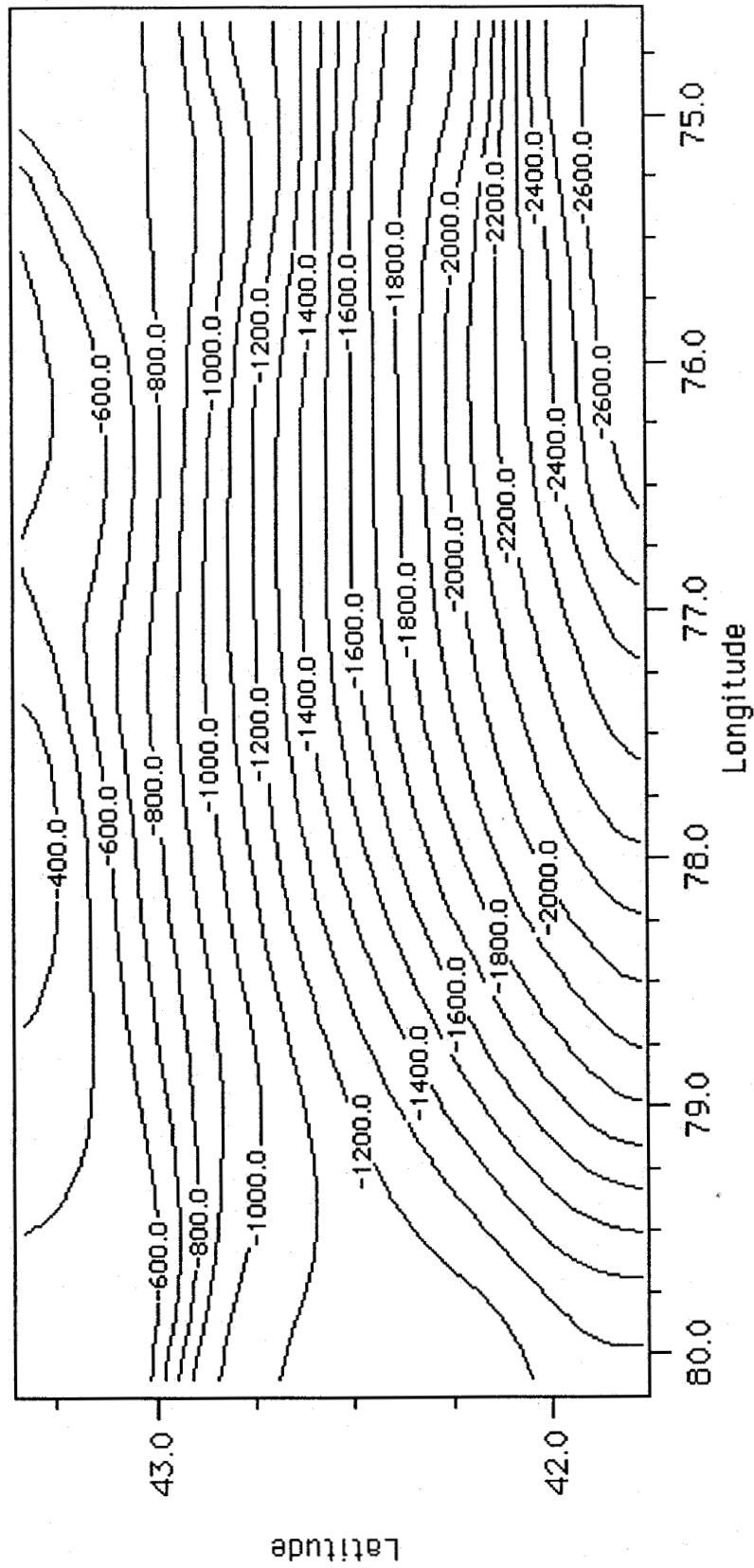


Figure 4-8. Third order trend surface of the depth in meters (sea level datum) to the top of the Trenton Group.

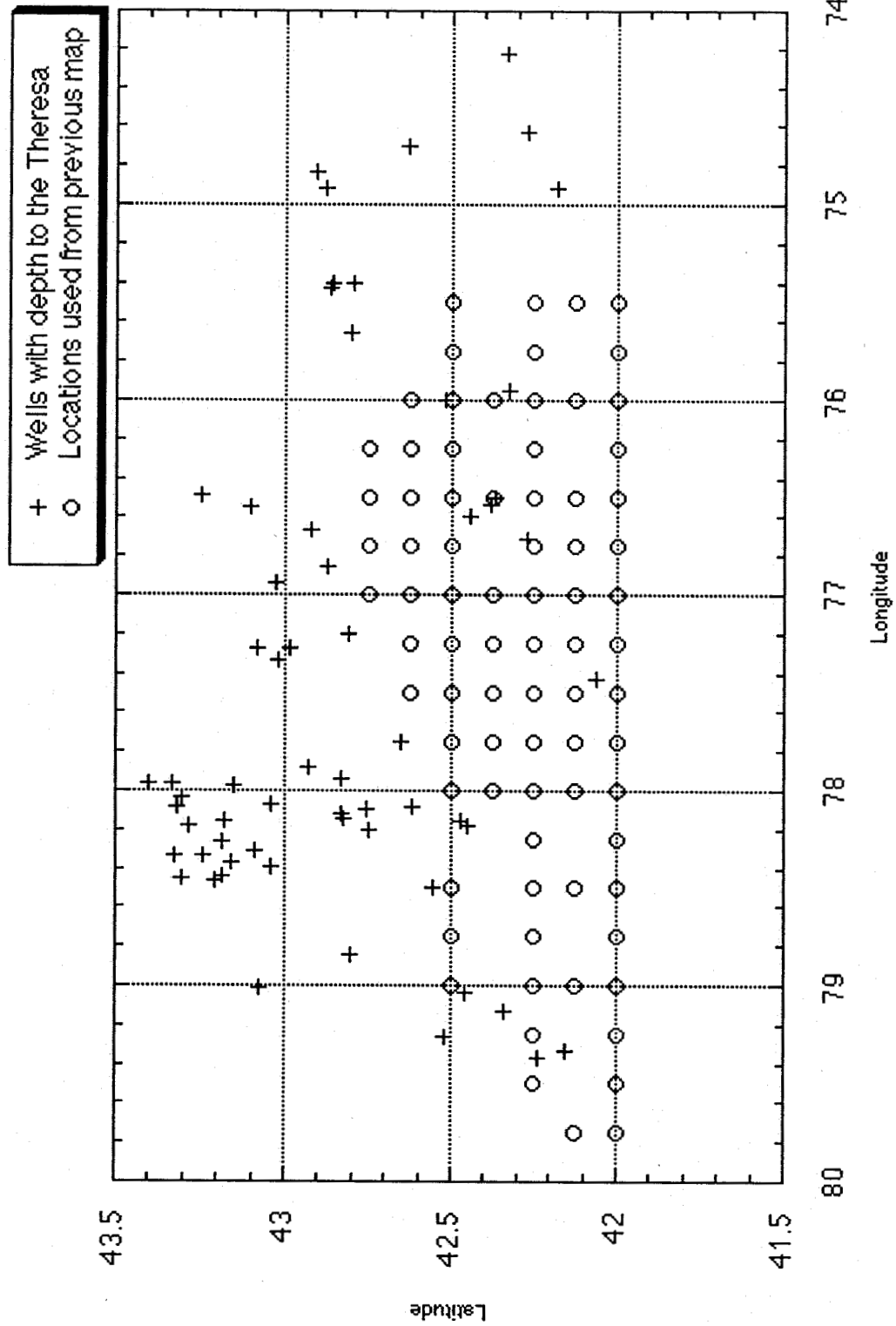


Figure 4-9. Location of wells with depth to the Theresa and location of data points from a previously made map that were used in the trend surface analysis. (Hodge and Fromm, 1982, p. 51)

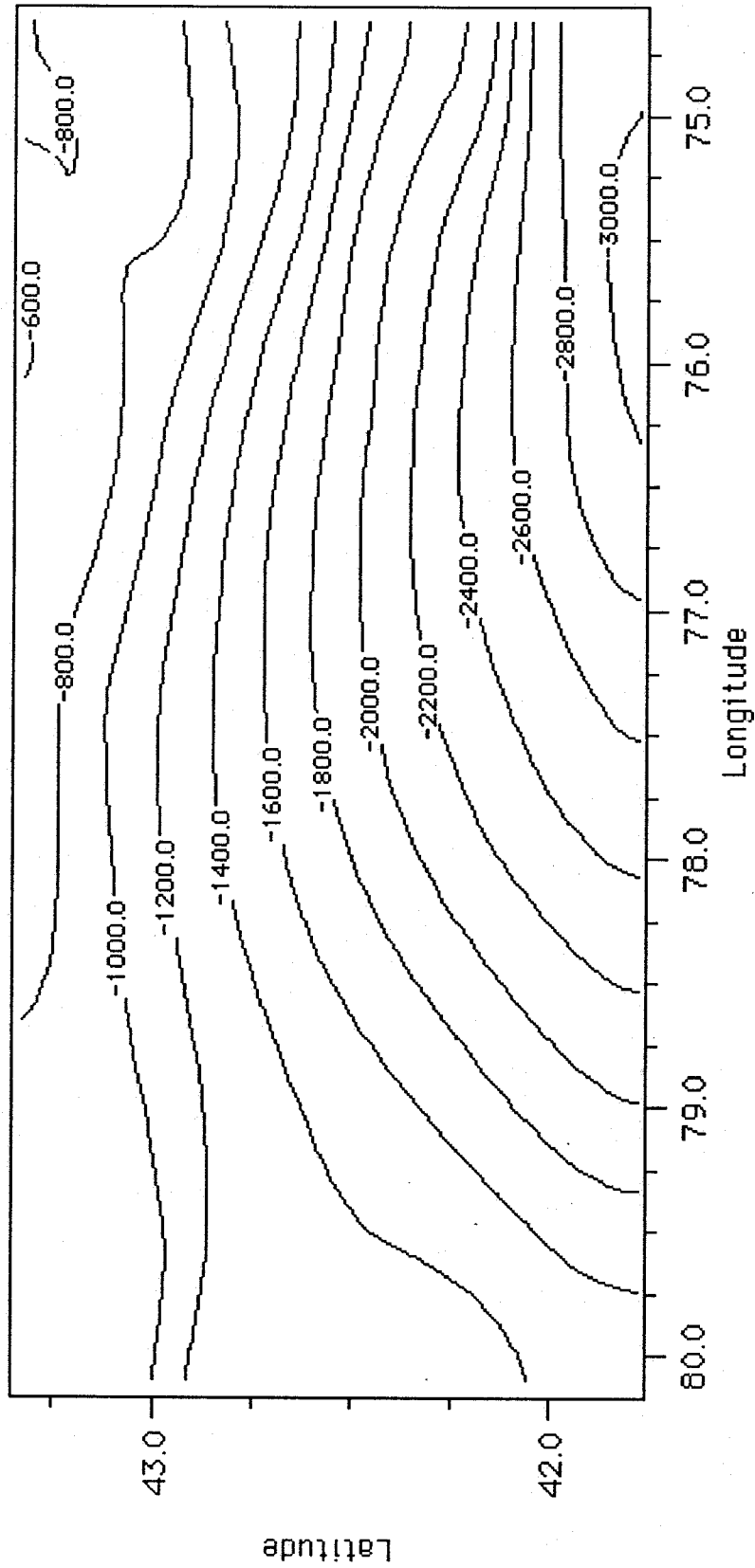


Figure 4-10. Third order trend surface of the depth in meters (sea level datum) to the top of the Theresa Formation.

The structure contour map of the Precambrian basement was prepared from 174 data points (Figures 4-11 and 4-12). A third order trend surface was determined as a best fit model for the basement top

$$-30535.7 - 18.75*y^3 + 34.9889*y^2*x - 21.1673*y*x^2 + 4.23859*x^3 \quad (16)$$

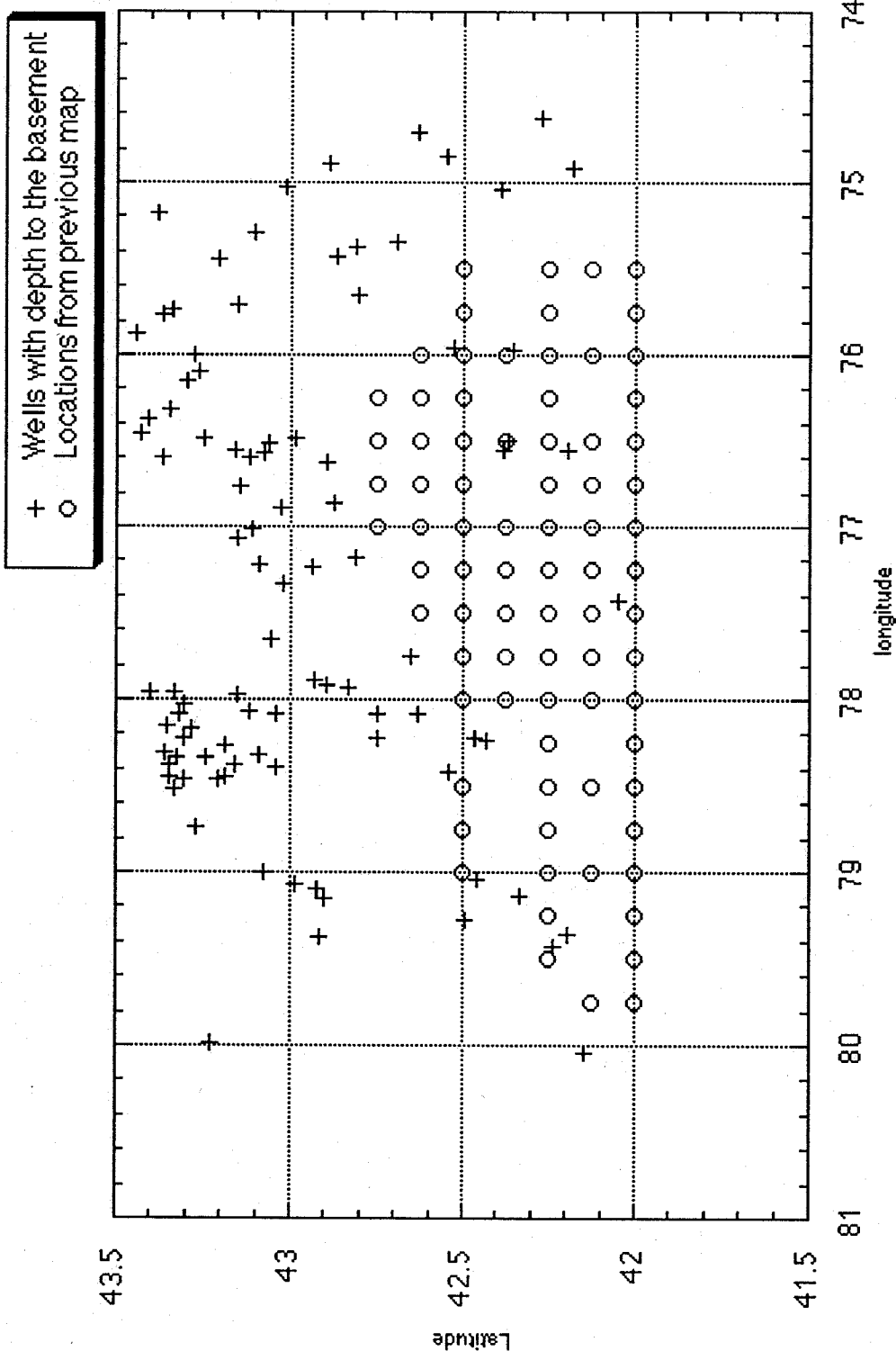


Figure 4-11. Location of wells with depth to the basement and location of data points from a previously made map that were used in the trend surface analysis. (Hodge and Fromm, 1982, p. 56)

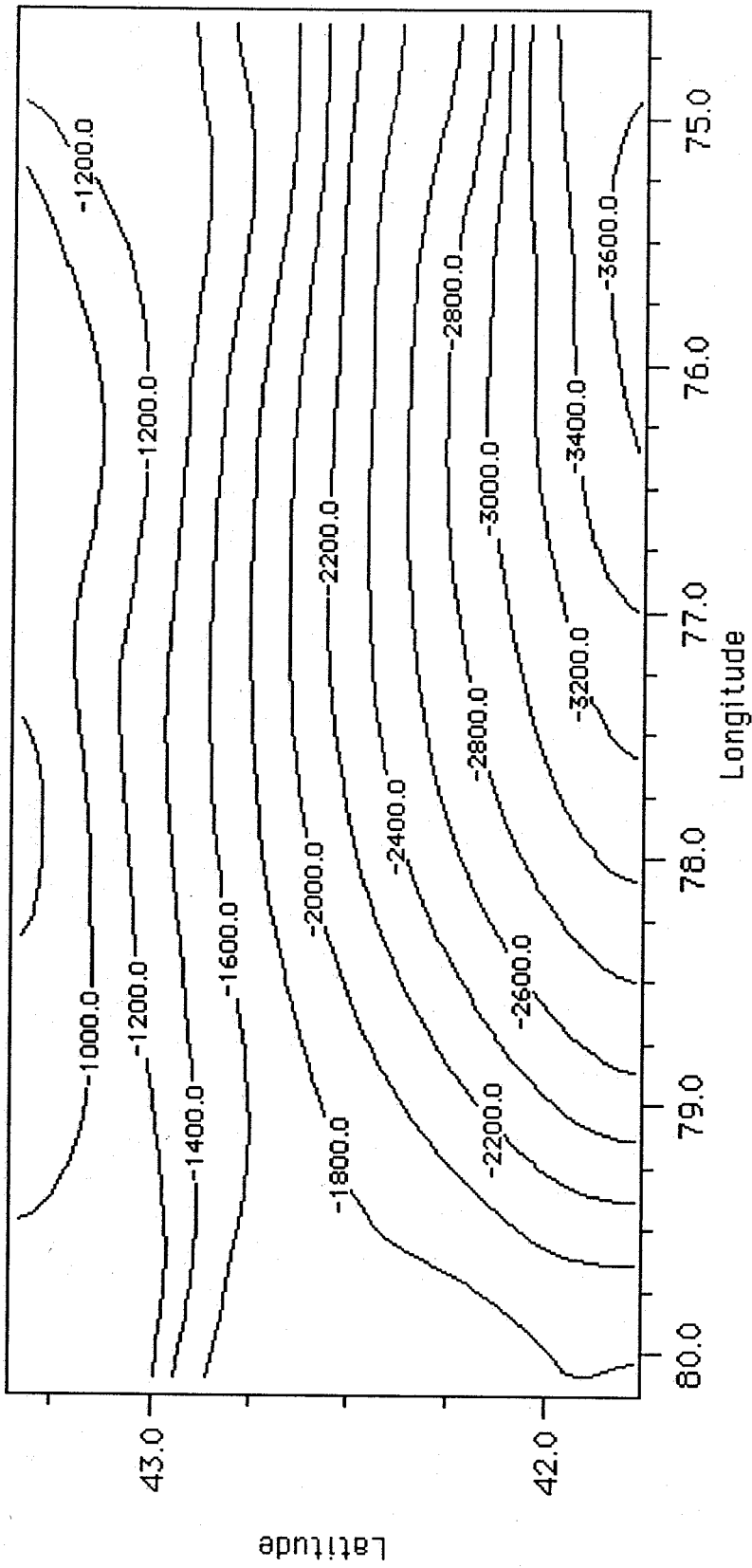


Figure 4-12. Third order trend surface of the depth in meters (sea level datum) to the top of the basement.

Section 5

HEAT FLOW AND SUBSURFACE TEMPERATURE DISTRIBUTION

The mean harmonic conductivity from the surface to total depth for each BHT well was calculated by solving the trend surface equations for the depth to each layer at the well site, determining which layer the BHT is in, and applying this information along with the conductivity data (Table 3-1) to Equation 7. The heat flow is then equal to the average geothermal gradient times the mean harmonic conductivity just obtained. The calculated heat flow was then computer-contoured using the Spyglass contouring program and a 400 x 400 matrix with a kernel smoothing fill technique (Figure 5-1). Values in the region were generally around 50 and 60 mW/m², which is typical for the northeastern US. Very little correlation to gravity trends is observed (Figure 5-2).

These heat flow values were then used in conjunction with the conductivity model to extrapolate subsurface temperatures at the top of the Theresa Formation and the basement. (Figure 5-3 and Figure 5-4). These maps were also produced on the Spyglass contouring program using a 400 x 400 matrix and kernel smoothing fill technique. The fact that temperatures in and around wells are perturbed by the drilling process make the determination of temperature at these formations a difficult process. The presence of expanding gas, natural or H₂S, causes very noticeable depressions. Compressed air, formation fluids, water, or sometimes mud are circulated within wells during rotary drilling to cool and lubricate the drill bit and flush the chips from the well. This is responsible for the transference of heat from areas of the borehole where temperatures are greater than the circulated matter to cooler areas and out to the surface.

Because of the possibility of a drilling disturbance depressing the observed bottom-hole temperatures, the temperature distributions were analyzed using a correction factor to bottom-hole temperatures developed by the American Association of Petroleum Geologists (AAPG)

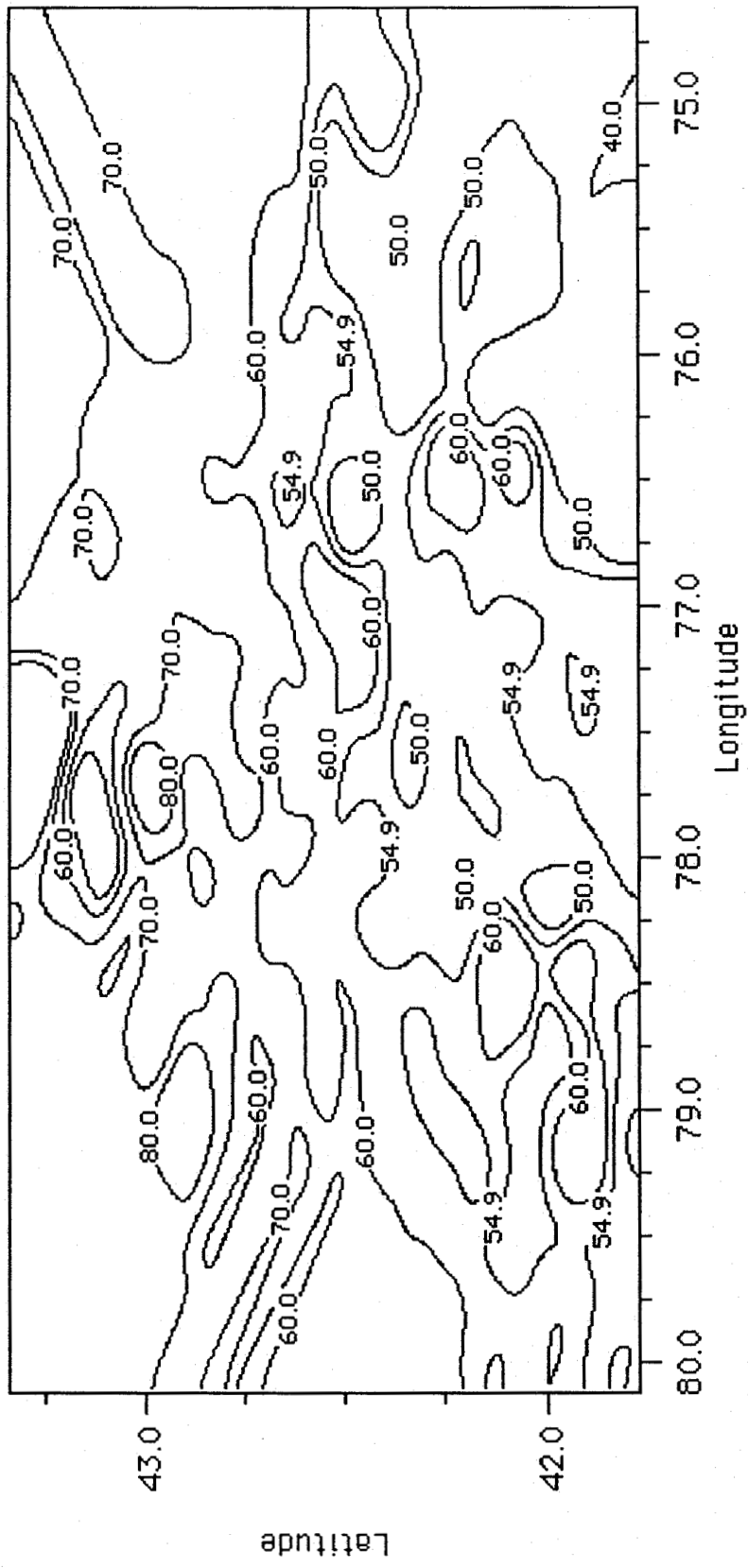


Figure 5-1. Heat flow in New York (mW/m²) based on average geothermal gradient from surface temperature, BHT, and thermal conductivity model.

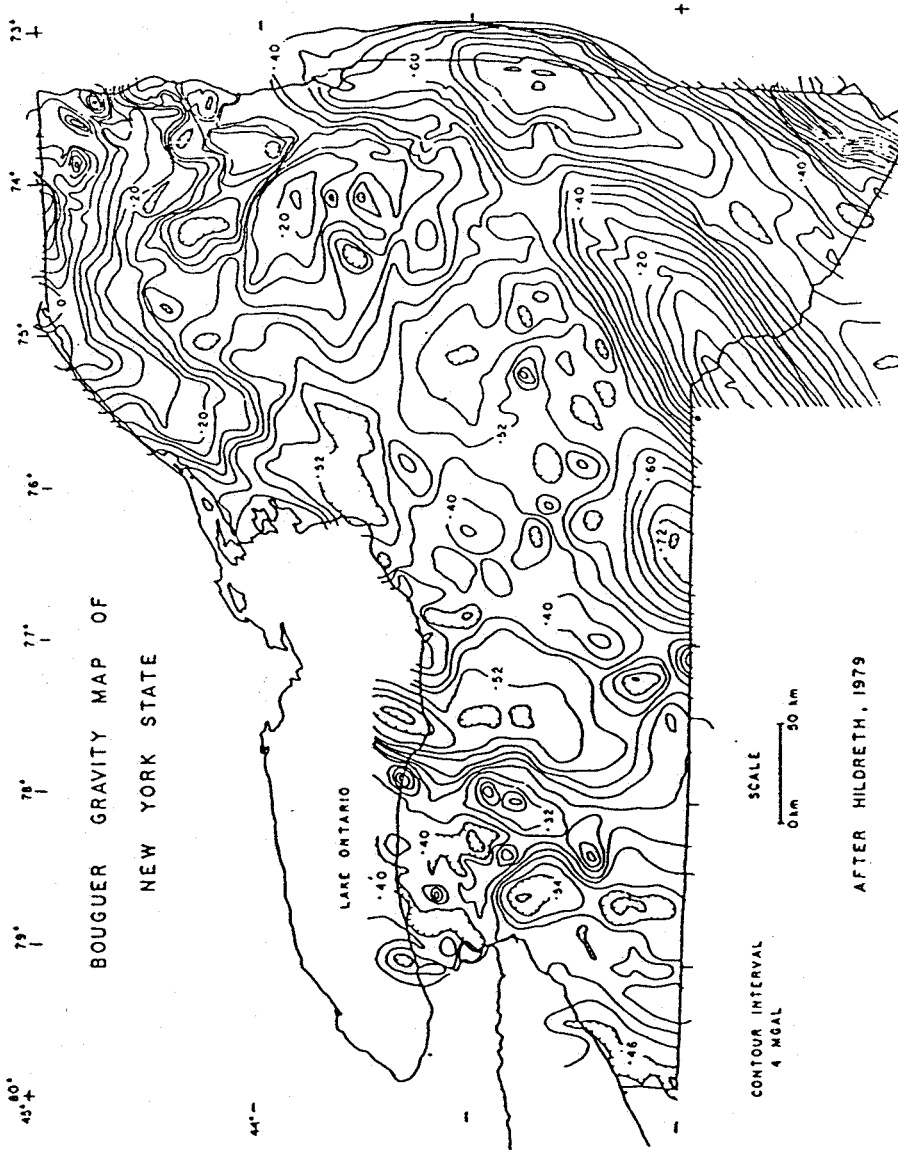


Figure 5-2. Bouguer Gravity map of New York State.

during their geothermal survey of North America (AAPG. 1971). Their study statistically derived a correction factor to apply to bottom-hole temperatures that are logged soon after cessation of drilling. The correction was derived from equilibrium temperatures in 602 wells in west Texas and southern Louisiana. The wells were reentered long after the drilling disturbance had dissipated, and the BHT recorded and an empirical relation of the drilling disturbance to the depth of the BHT was established. The equation derived to stimulate the AAPG correction is

$$\begin{aligned} \text{BHTCOR} = & -1.055 \text{ (}^\circ\text{F)} + 0.4485 \times 10^{-2} \text{ (}^\circ\text{F/ft)} \cdot d - \\ & 0.1903 \times 10^{-7} \text{ (}^\circ\text{F/ft}^2\text{)} \cdot d^2 - \\ & 0.9250 \times 10^{-11} \text{ (}^\circ\text{F/ft}^3\text{)} \cdot d^3 \end{aligned} \quad (17)$$

where BHTCOR is the correction factor in degrees Fahrenheit and d is the depth to the BHT in feet. The problem with this relation is that it is derived from wells in an area (Texas and Louisiana) where drilling mud is employed for most of the drilling operation. Wells drilled in New York State, except for very deep ones, are drilled primarily with compressed air. The transfer of heat from the borehole cannot be expected to be as effective with air or with mud because the conductivity of air is generally several orders of magnitude less. Therefore, this correction must be considered to overestimate the upper-bound of the correction that should be made. Actual determination of a corrective factor for air-drilled wells would require logging the BHT in many wells at different depths over time. Additionally, much of the information that would be necessary to properly apply a correction (e.g., length of actual drilling time, time after cessation of drilling that the BHT was recorded) is not commonly available. Due to their complexities, a study of a corrective factor for the wells in New York State was not undertaken, and so the AAPG corrective factor was employed.

Temperatures at the top of the Theresa Formation (Figure 5-3) and the top of the basement (Figure 5-4) were calculated based on Equation 9. The depth that the temperature gradients had to be extrapolated in was determined from the trend surface equations developed for each formation. The general character of the maps mimics what is expected. Elevated temperatures are shown in areas of higher heat flow. It can also be seen that the increase in temperature along the horizon toward the south becomes more rapid as a result of increased dip of the horizons in that area.

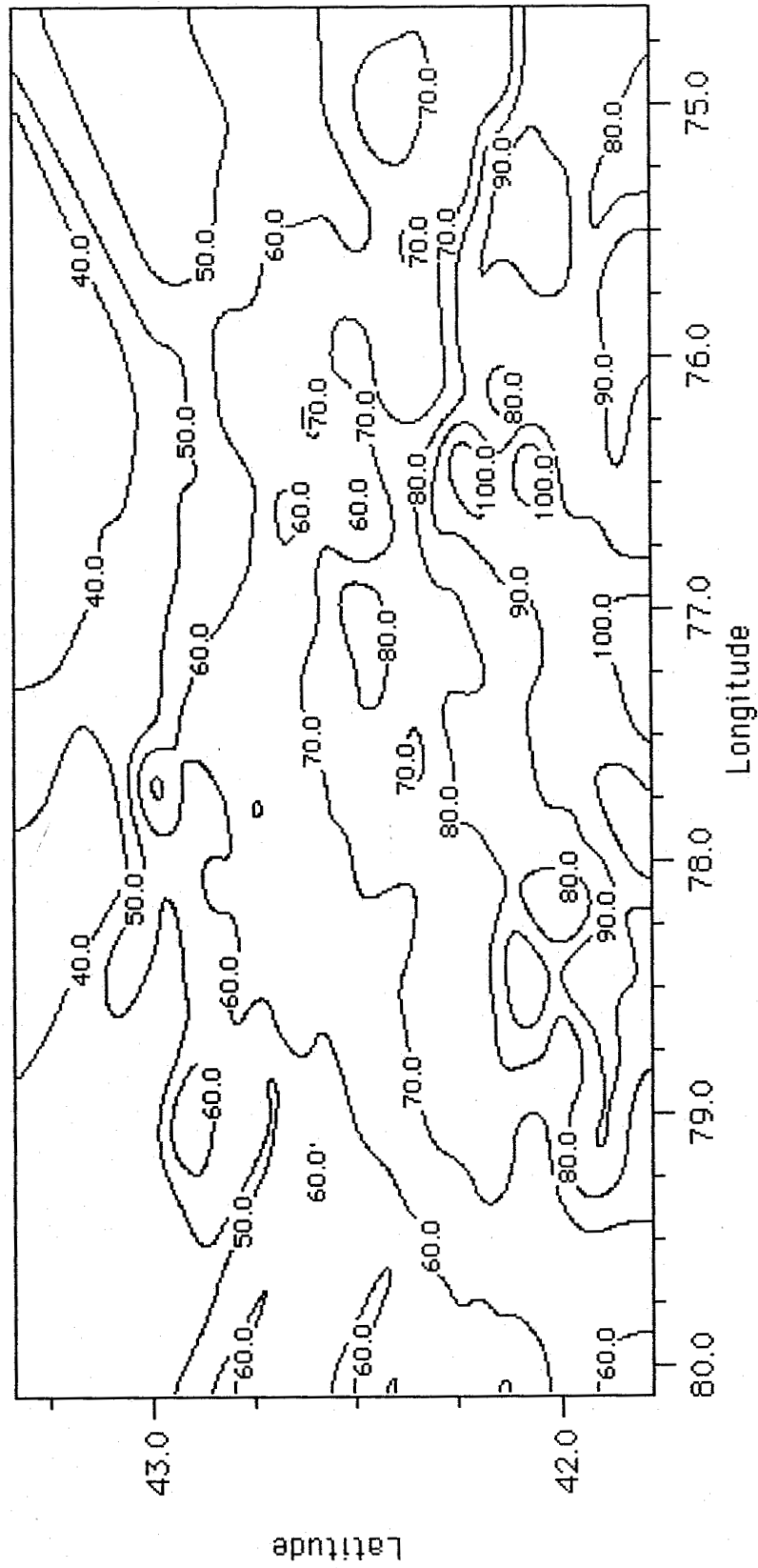


Figure 5-3. Temperature at the top of the Theresa Formation (degrees Celsius), BHT correction applied.

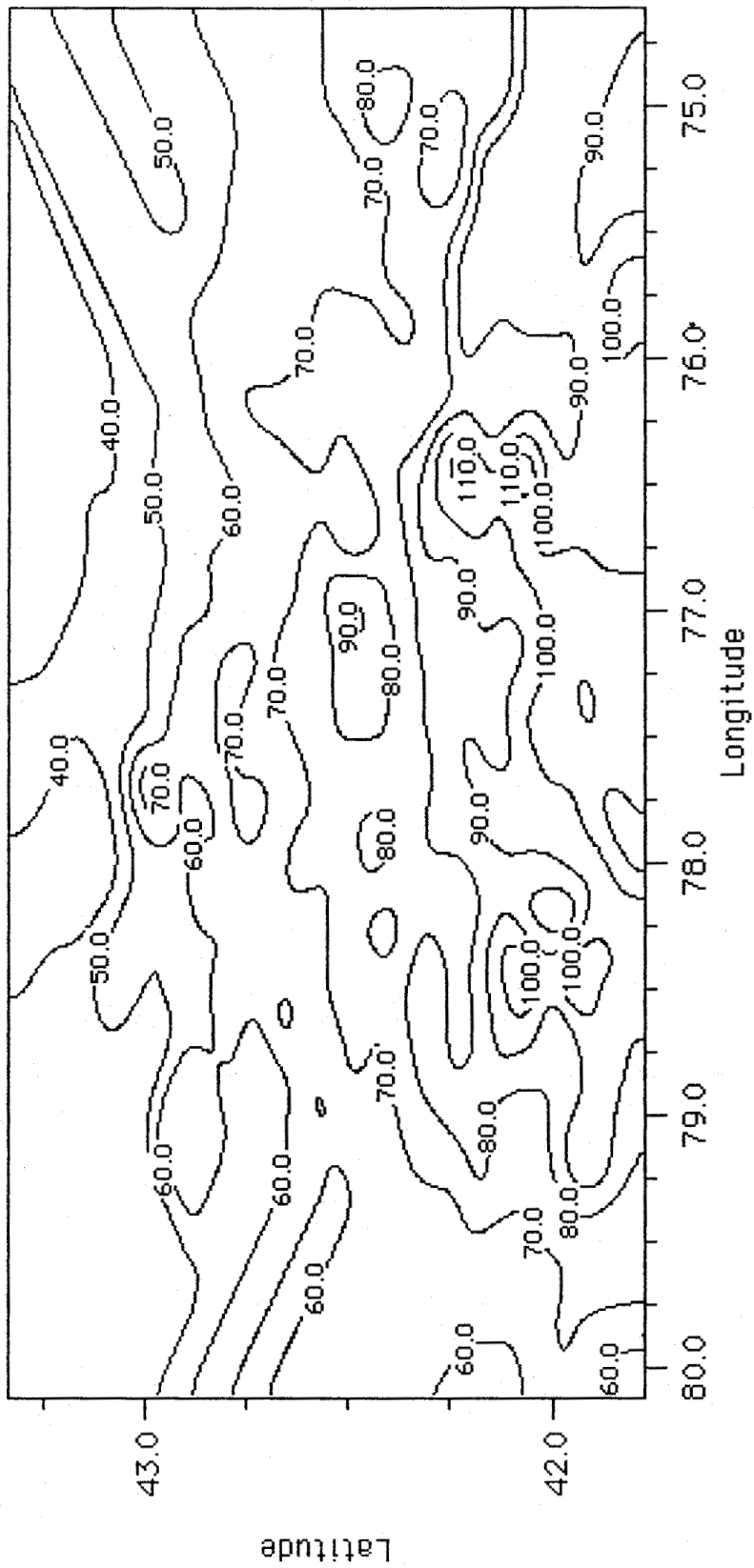


Figure 5-4. Temperature at the top of the basement (degrees Celsius), BHT correction applied.

Evaluating the accuracy of the model that predicts the temperature at depth was done by examining the actual temperature-depth distributions of bottom-hole temperatures in various sub-areas of the study area (Figure 5-5). The BHT versus depth (sea level datum) was plotted and the temperature at the top of each formation was calculated based on Equation 9. Gradient lines which connected the temperatures obtained at each formation were then plotted.

The temperatures encountered at shallower depths generally will follow the demonstrated gradient as they are extrapolated to greater depths. The degree to which they approximate actual temperatures recorded at greater depths, as they follow the changing gradient, is a measure of the accuracy of the model. Testing the model in this fashion is subject to limitations. Generally, temperature data is concentrated at a particular depth because the nature of oil and gas exploration tends to concentrate on a specific formation in an area that has proven resources. These oil and gas target formations are for the most part, at shallower depths than those that are targeted for geothermal use. Deeper temperatures are available and these were analyzed if they were present in the areas investigated.

The plot of BHT versus depth for all the areas is shown in Figures 5-6 - 5-25. When possible, the BHT for each well investigated in a specific area is shown outlined. The average depth to the various formations were obtained from their contour maps and trend surface equations and are noted on the right hand side of the plots as: 1) Onondaga (ON); 2) Queenston (QU); 3) Trenton (TR); 4) Theresa (TH); and 5) Basement (BA). All of the areas plotted gradients show good agreement with the deeper temperature data. This shows that the model used provides a good process for extrapolating temperature at depth for the available BHT data.

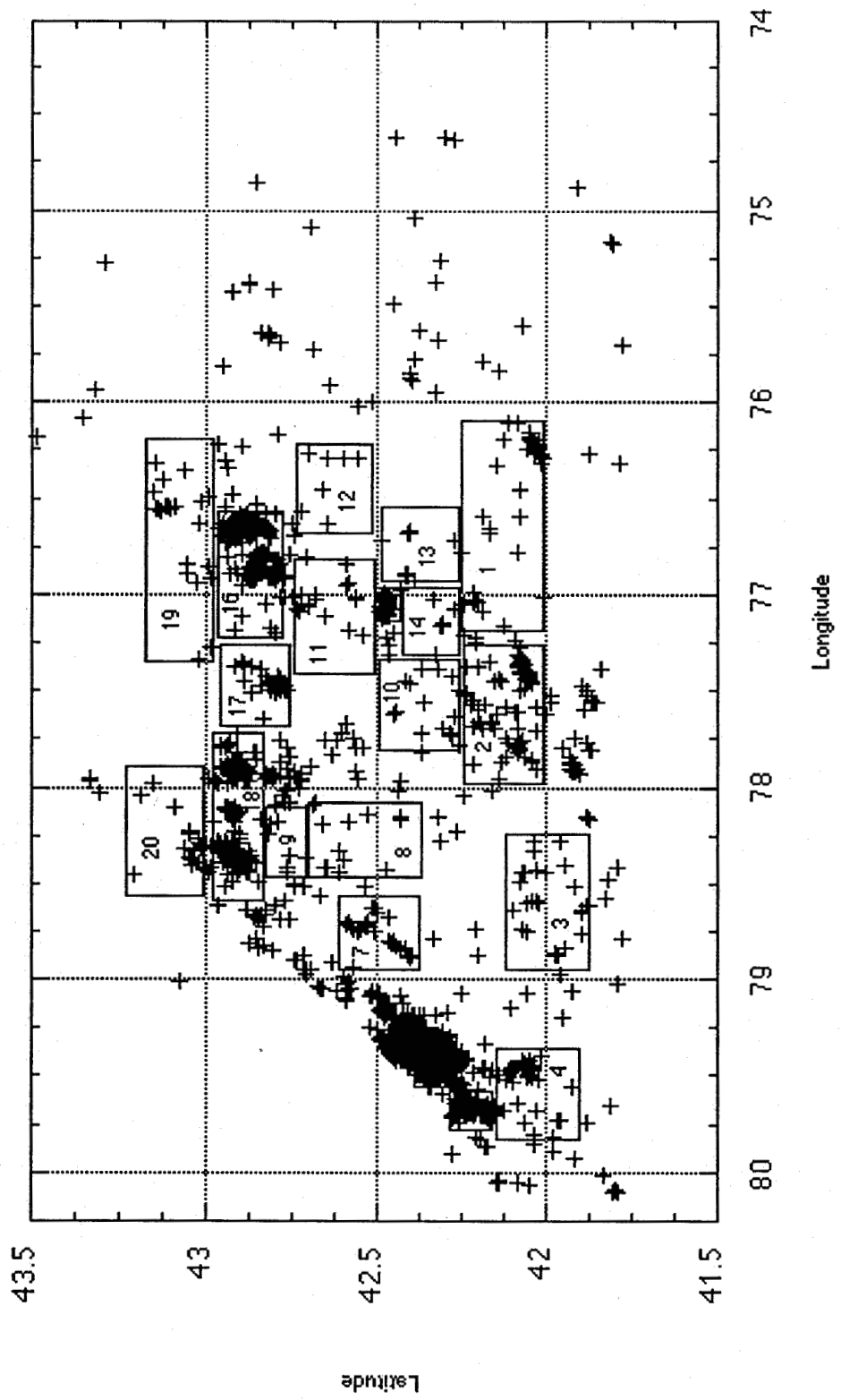


Figure 5-5. Outlines of areas used to examine the accuracy of temperature at depth distributions by plotting BHT versus depth (sea level datum).

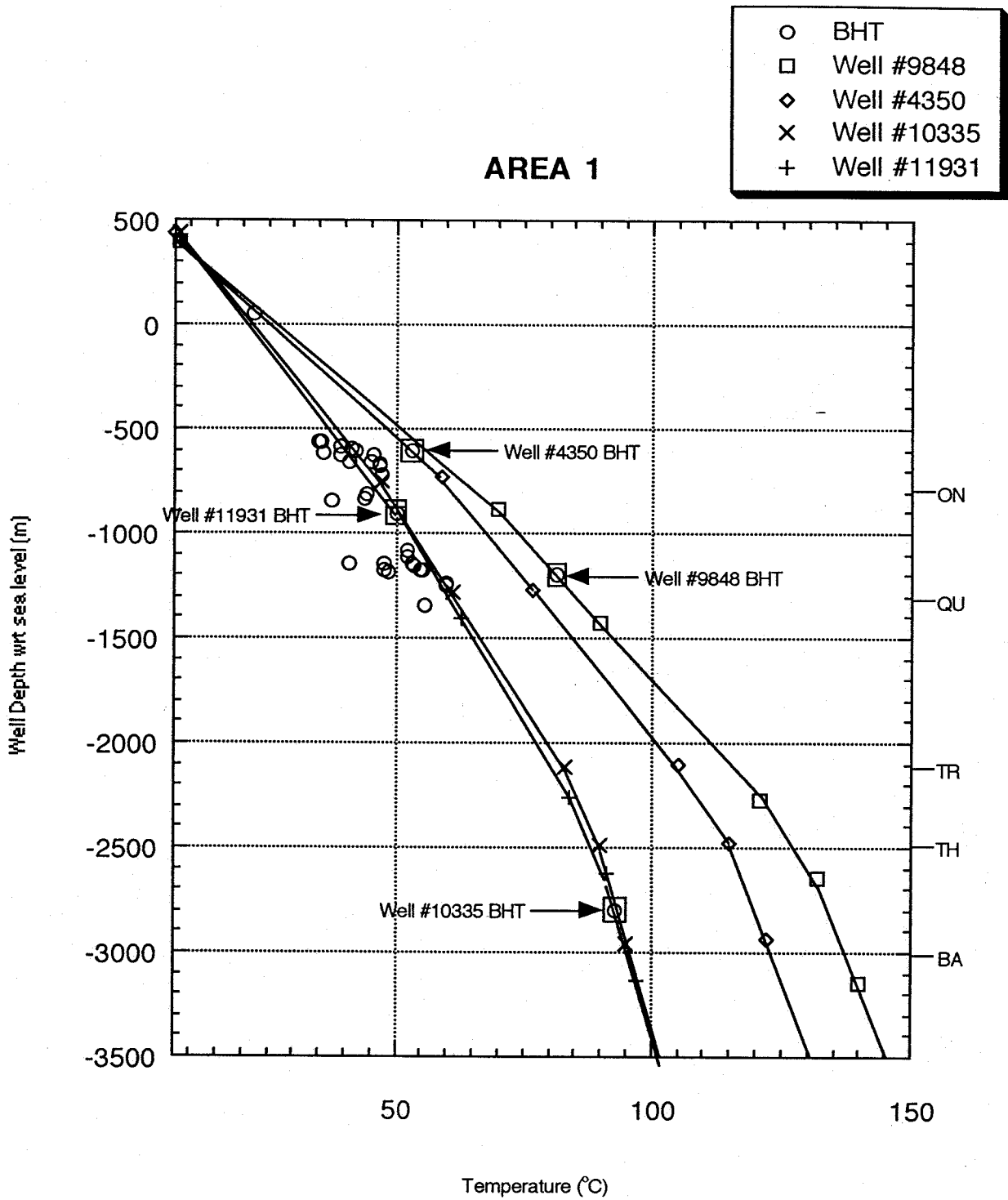


Figure 5-6. BHT data for Area 1.

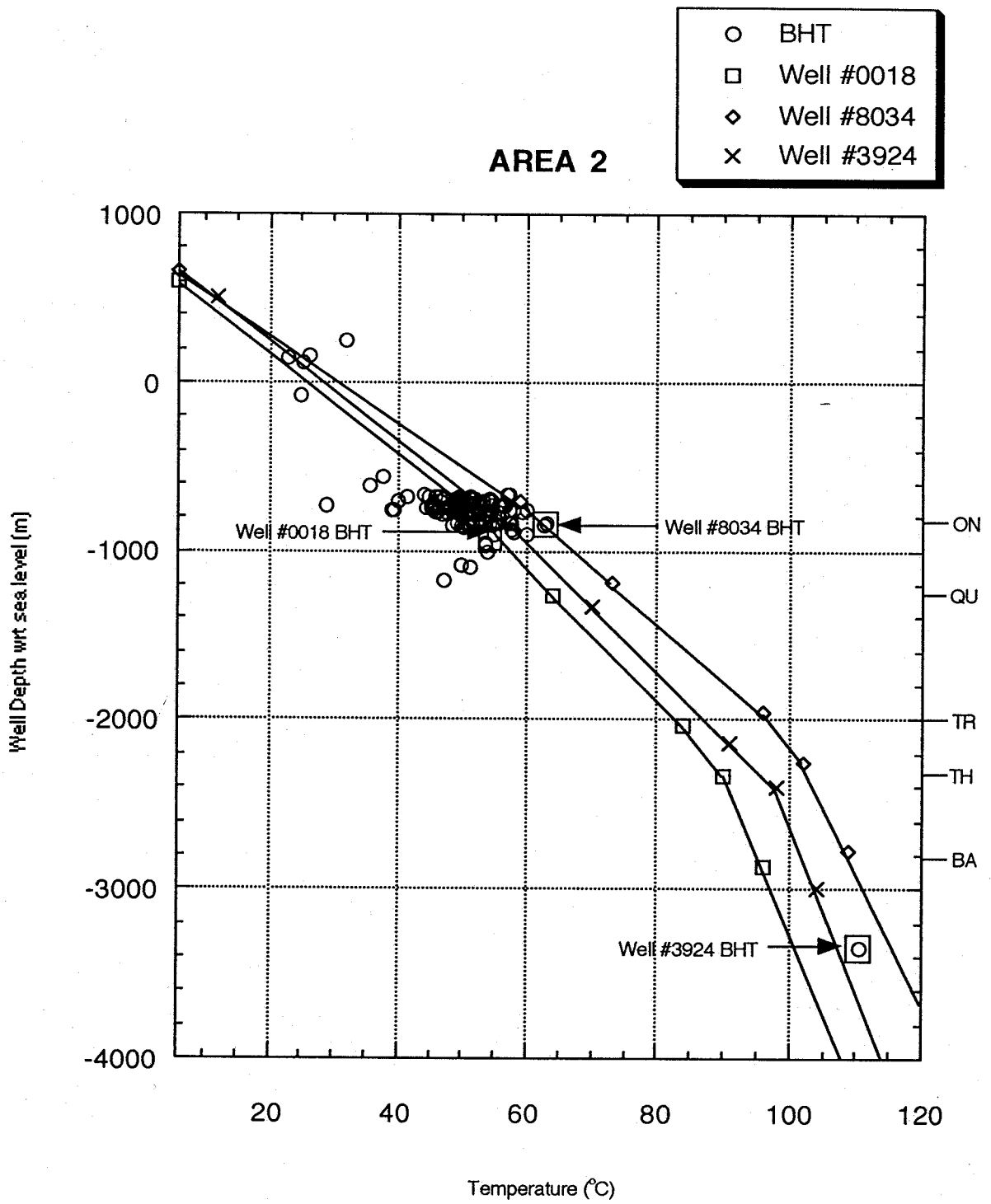


Figure 5-7. BHT data for Area 2.

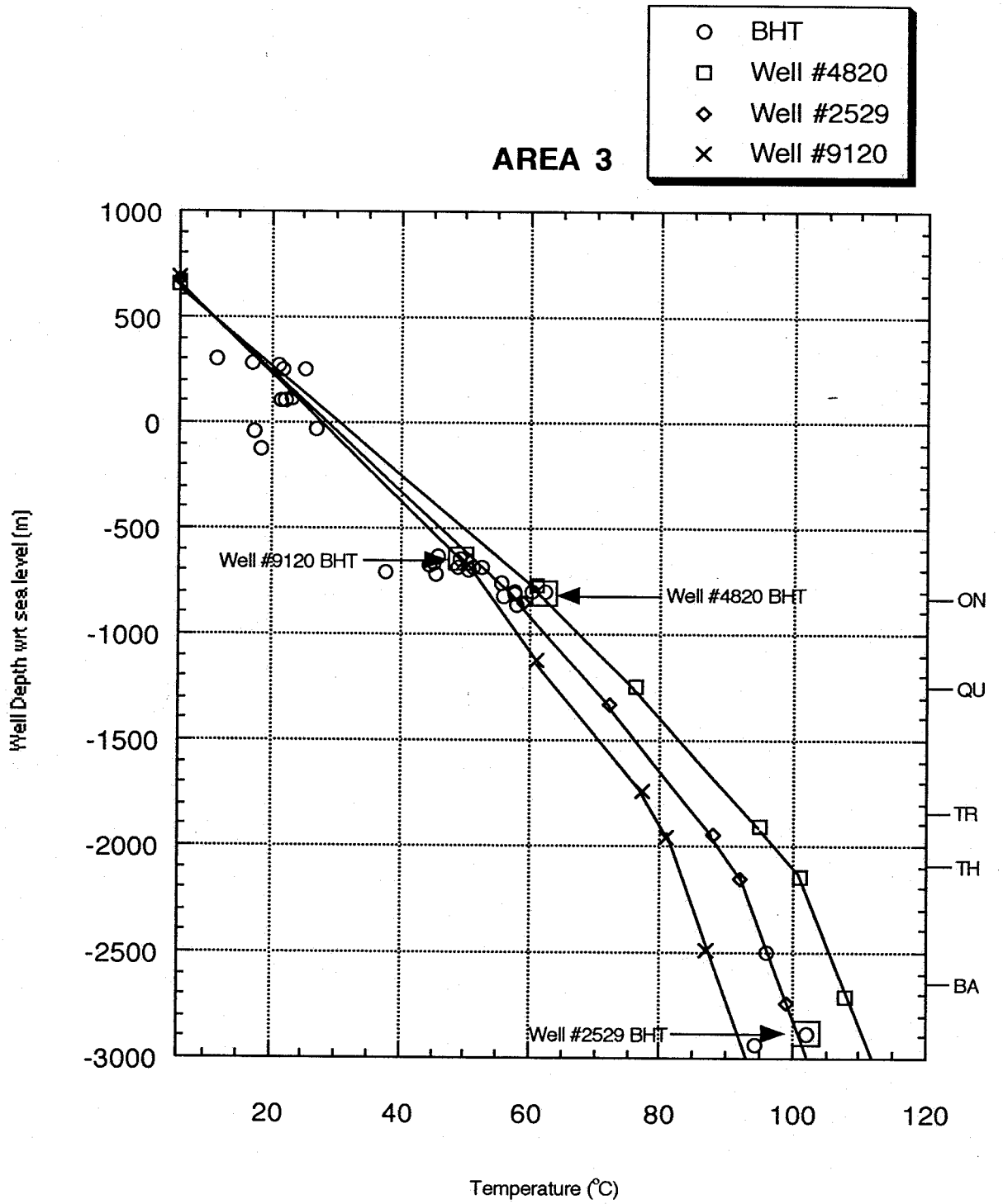


Figure 5-8. BHT data for Area 3.

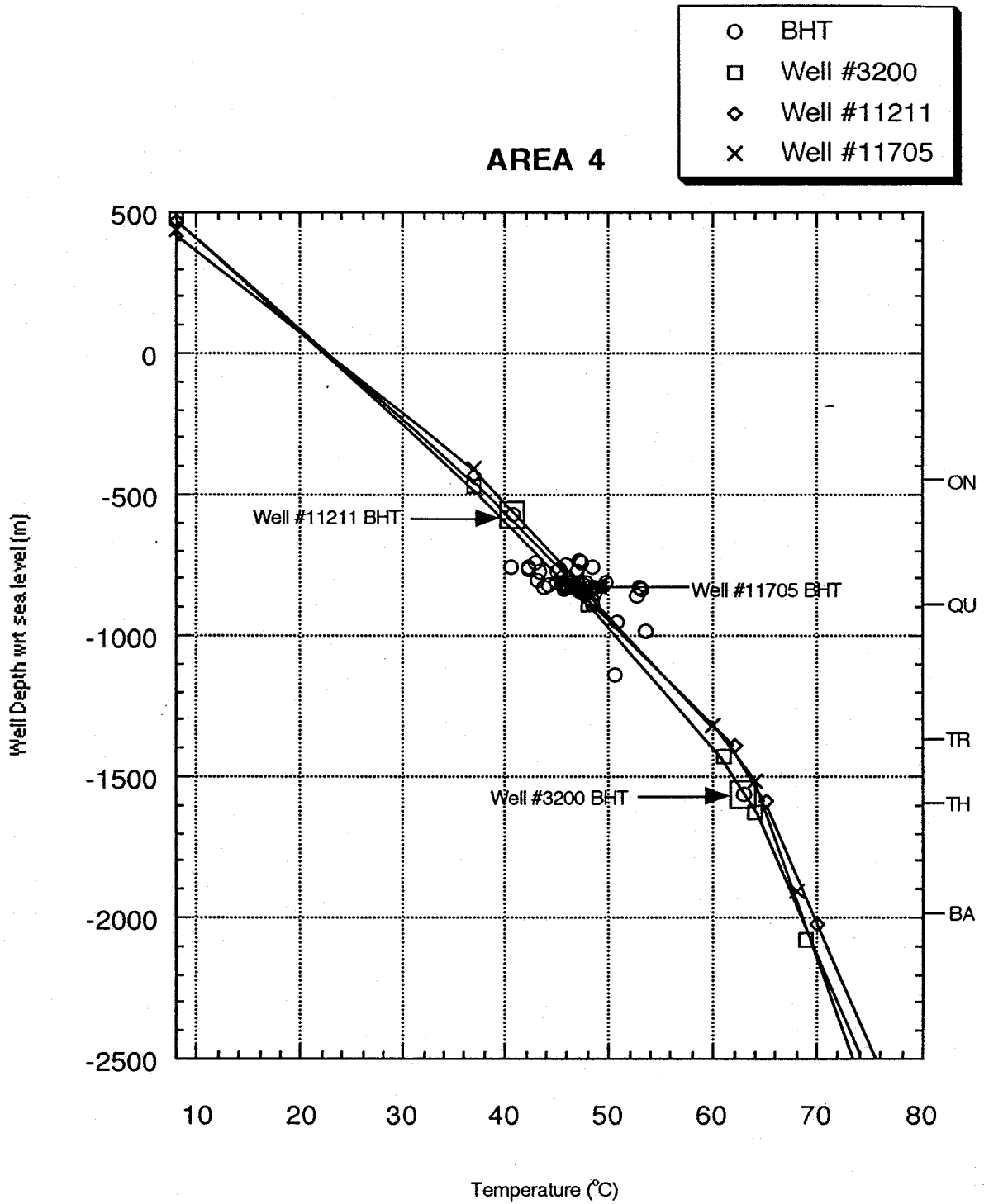


Figure 5-9. BHT data for Area 4.

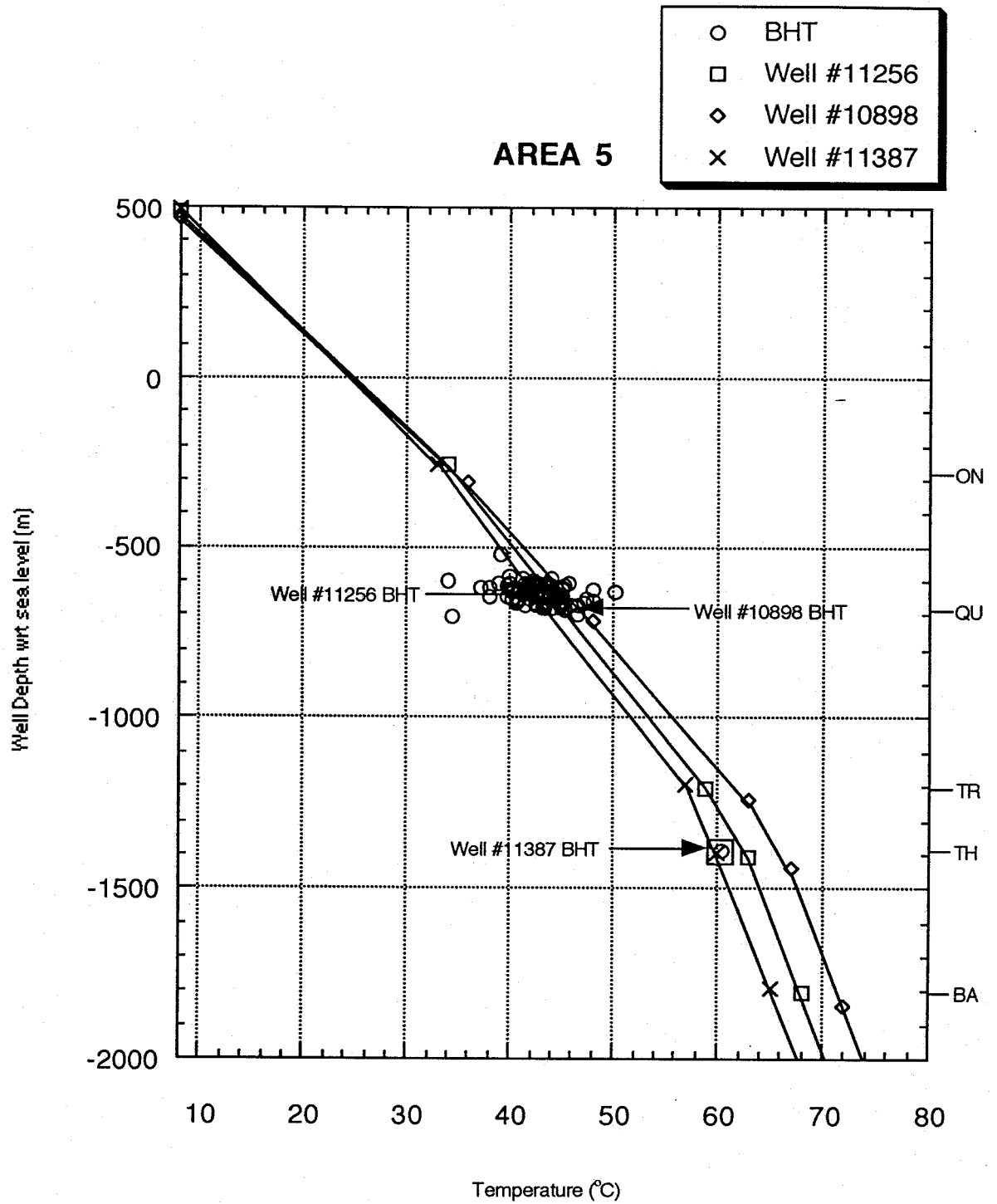


Figure 5-10. BHT data for Area 5.

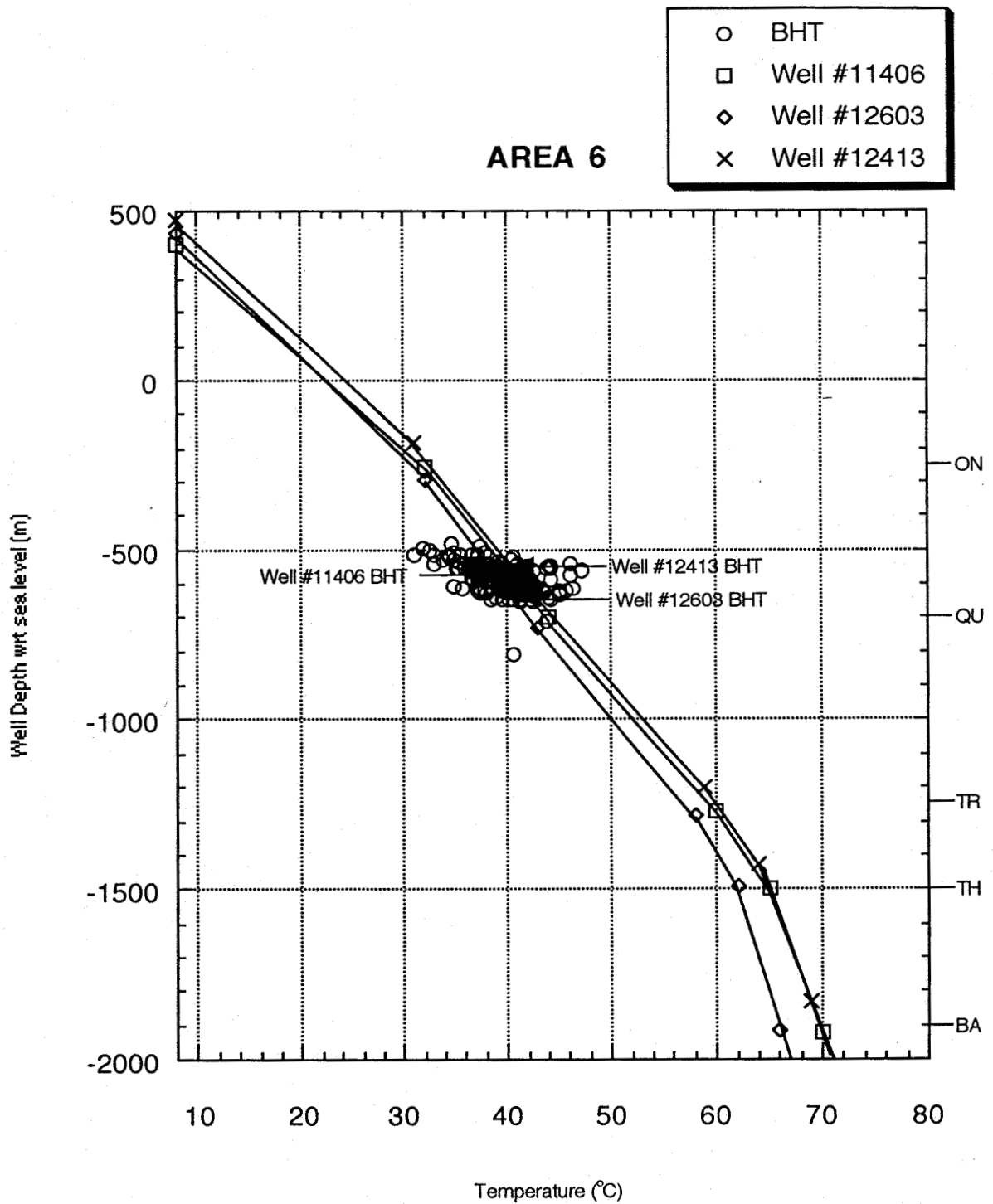


Figure 5-11. BHT data for Area 6.

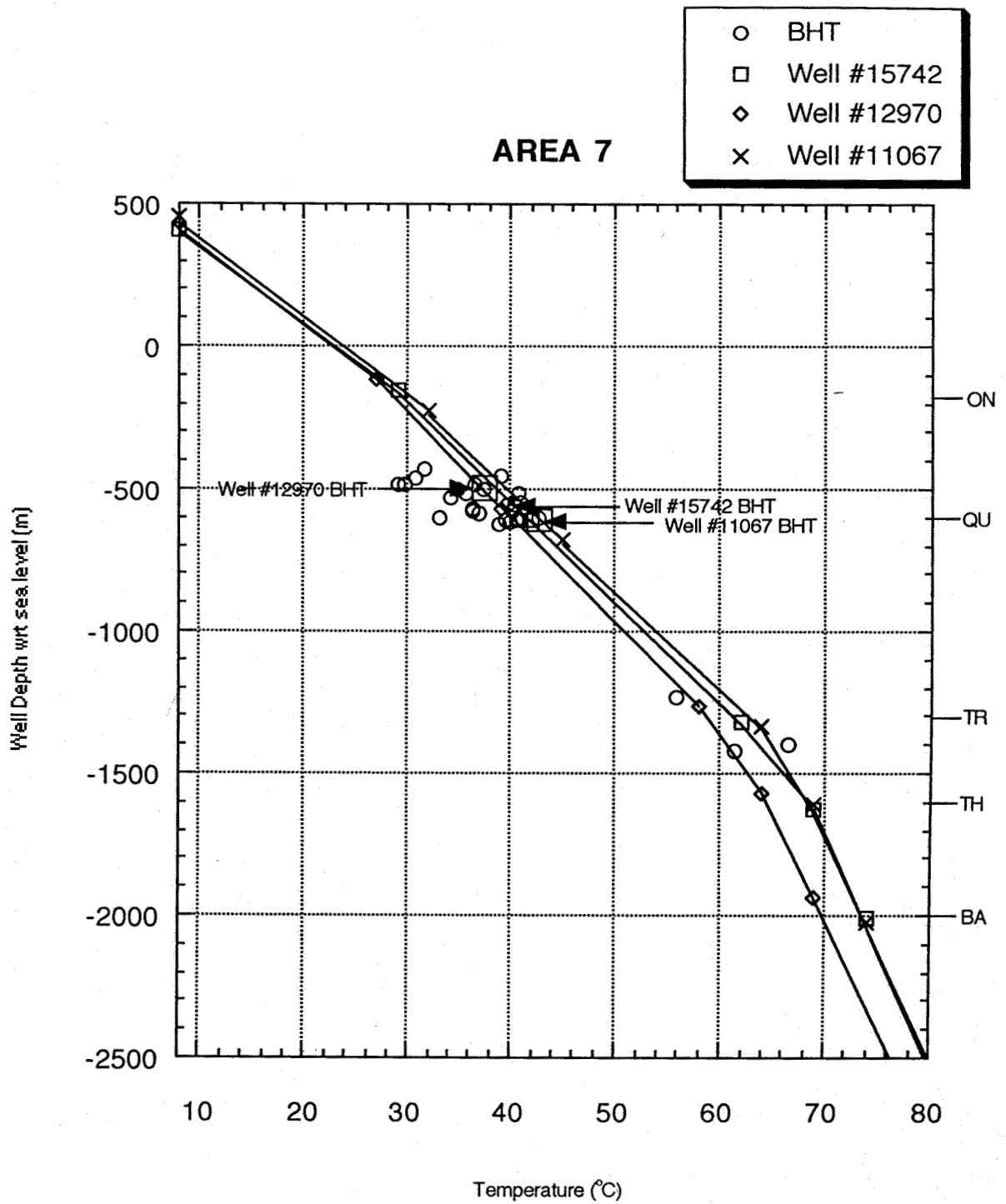


Figure 5-12. BHT data for Area 7.

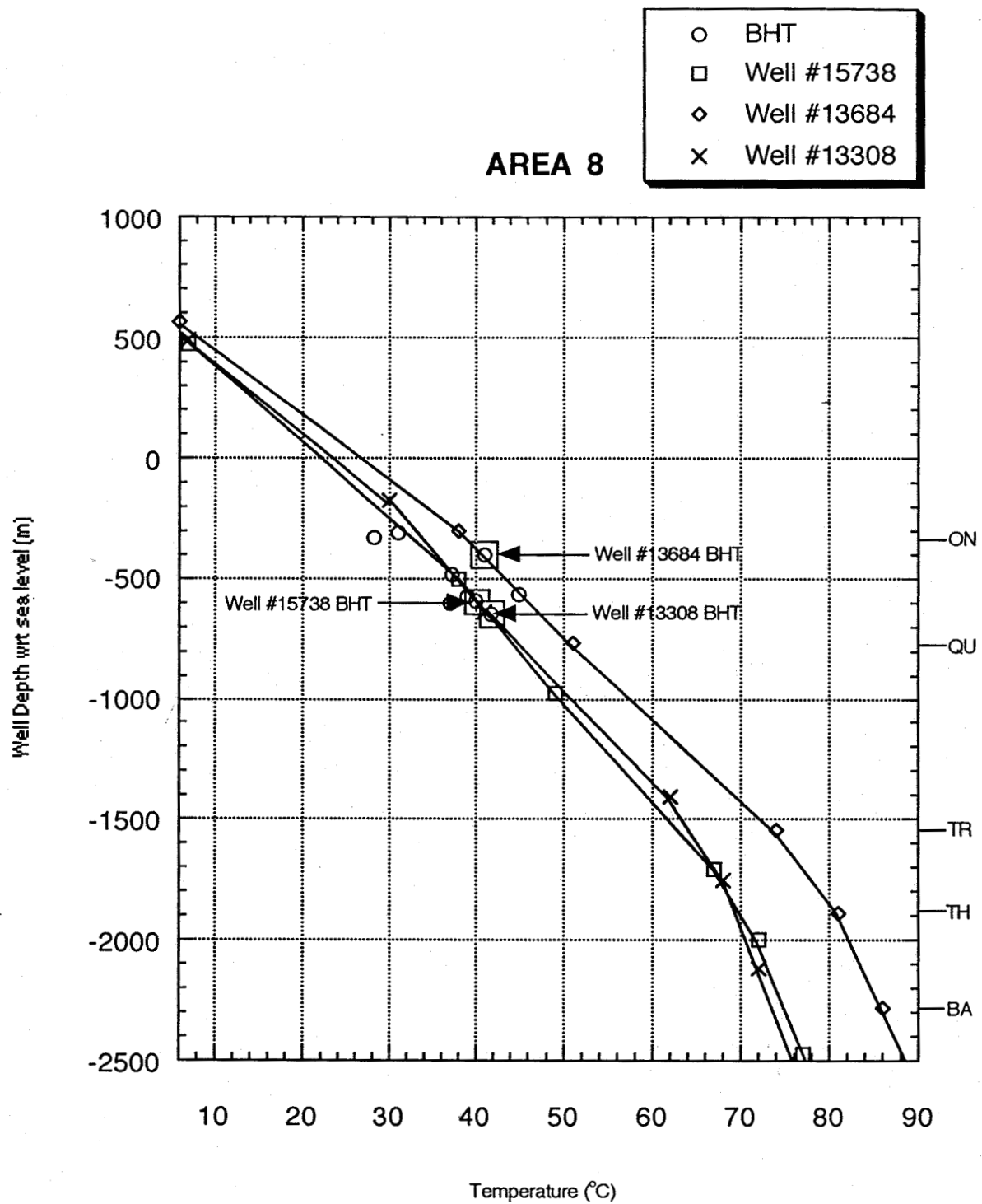


Figure 5-13. BHT data for Area 8.

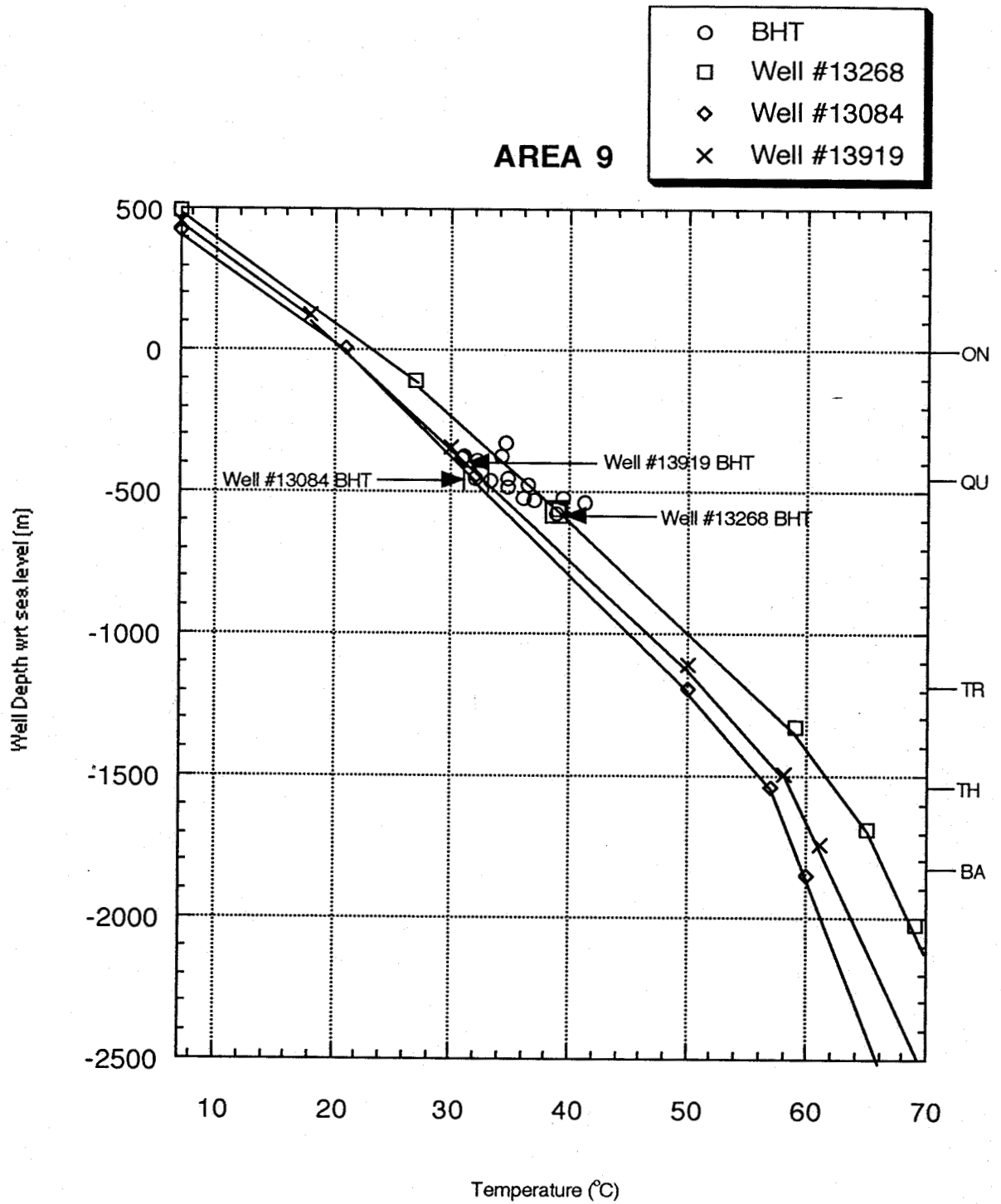


Figure 5-14. BHT data for Area 9.

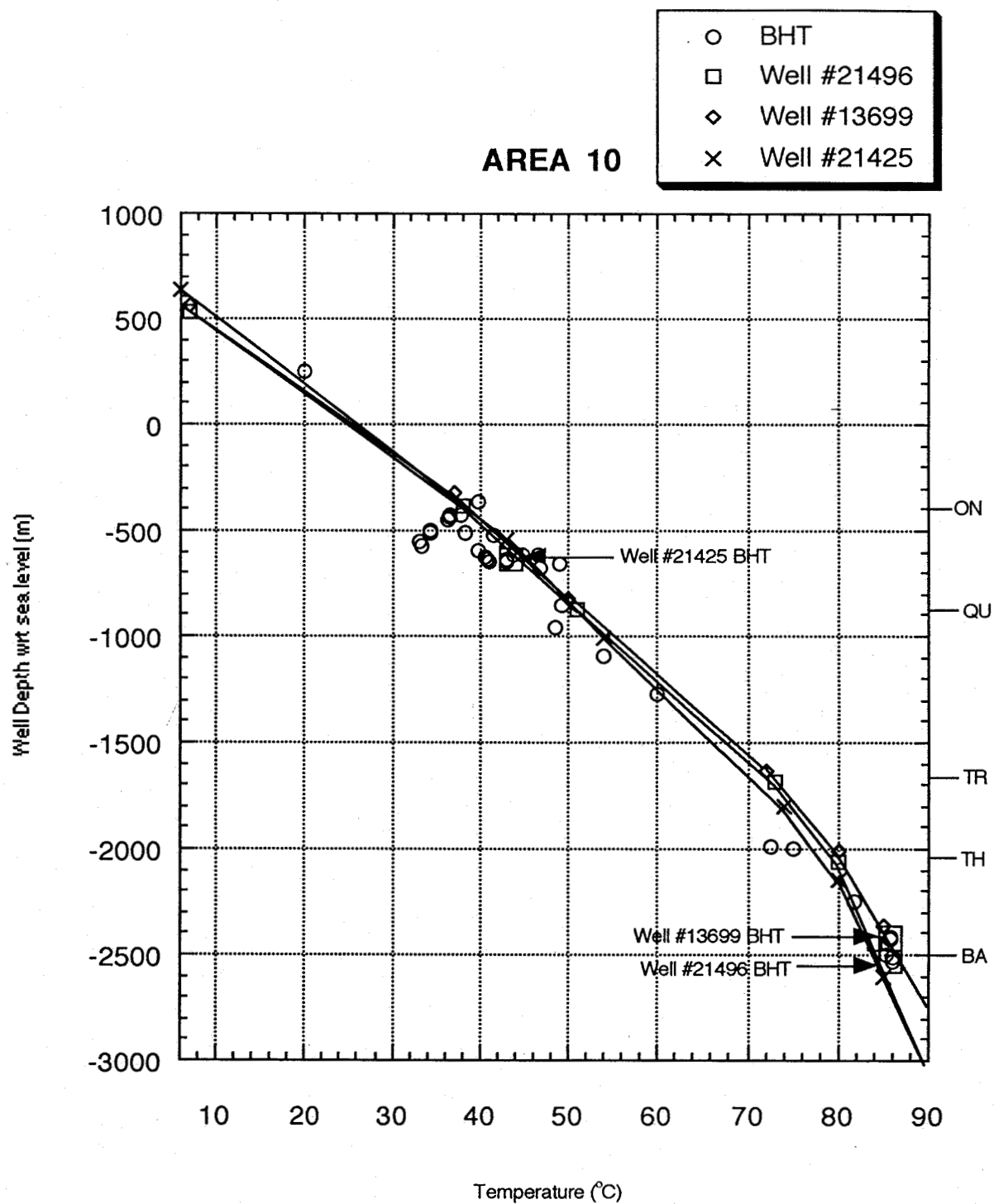


Figure 5-15. BHT data for Area 10.

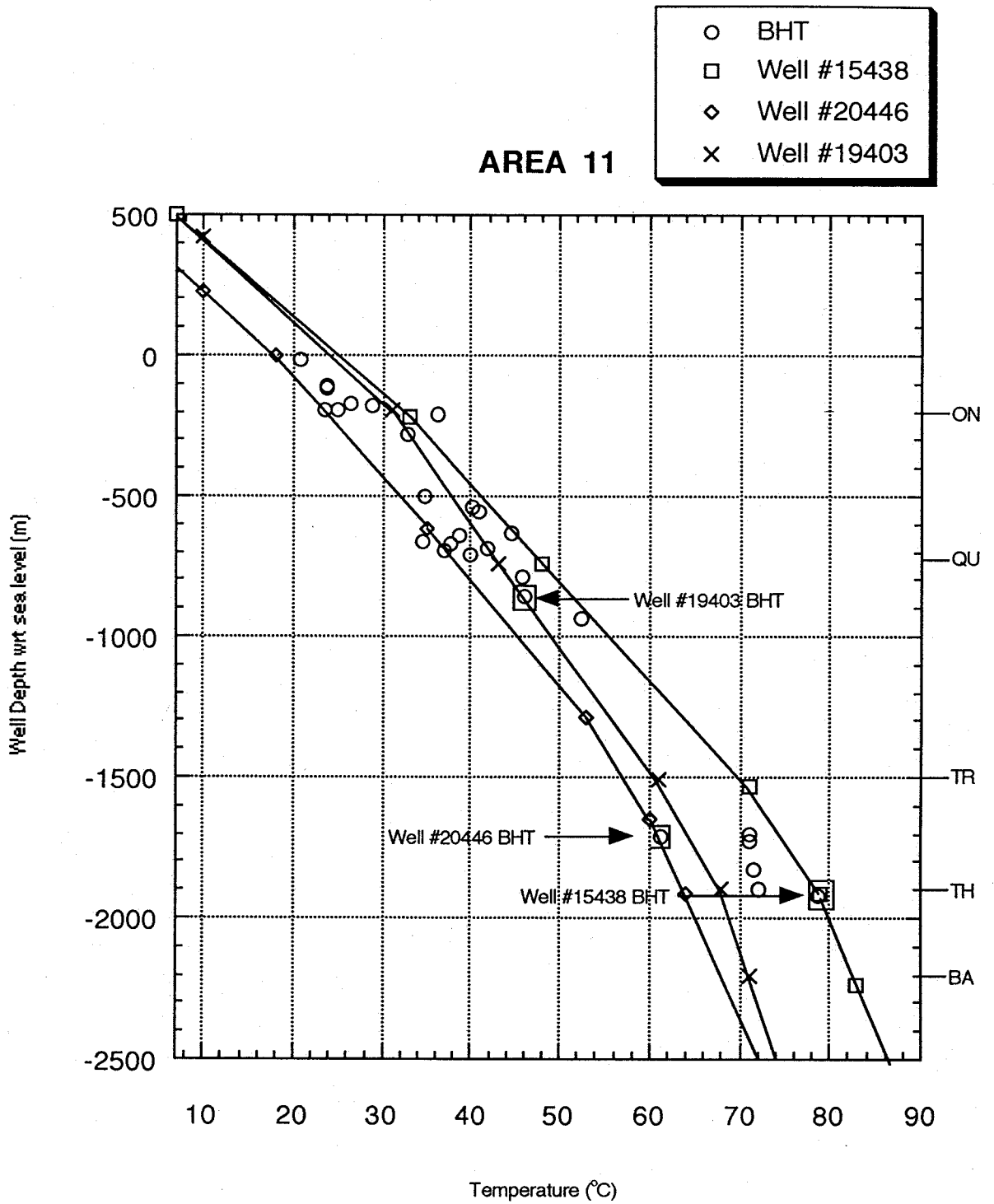


Figure 5-16. BHT data for Area 11.

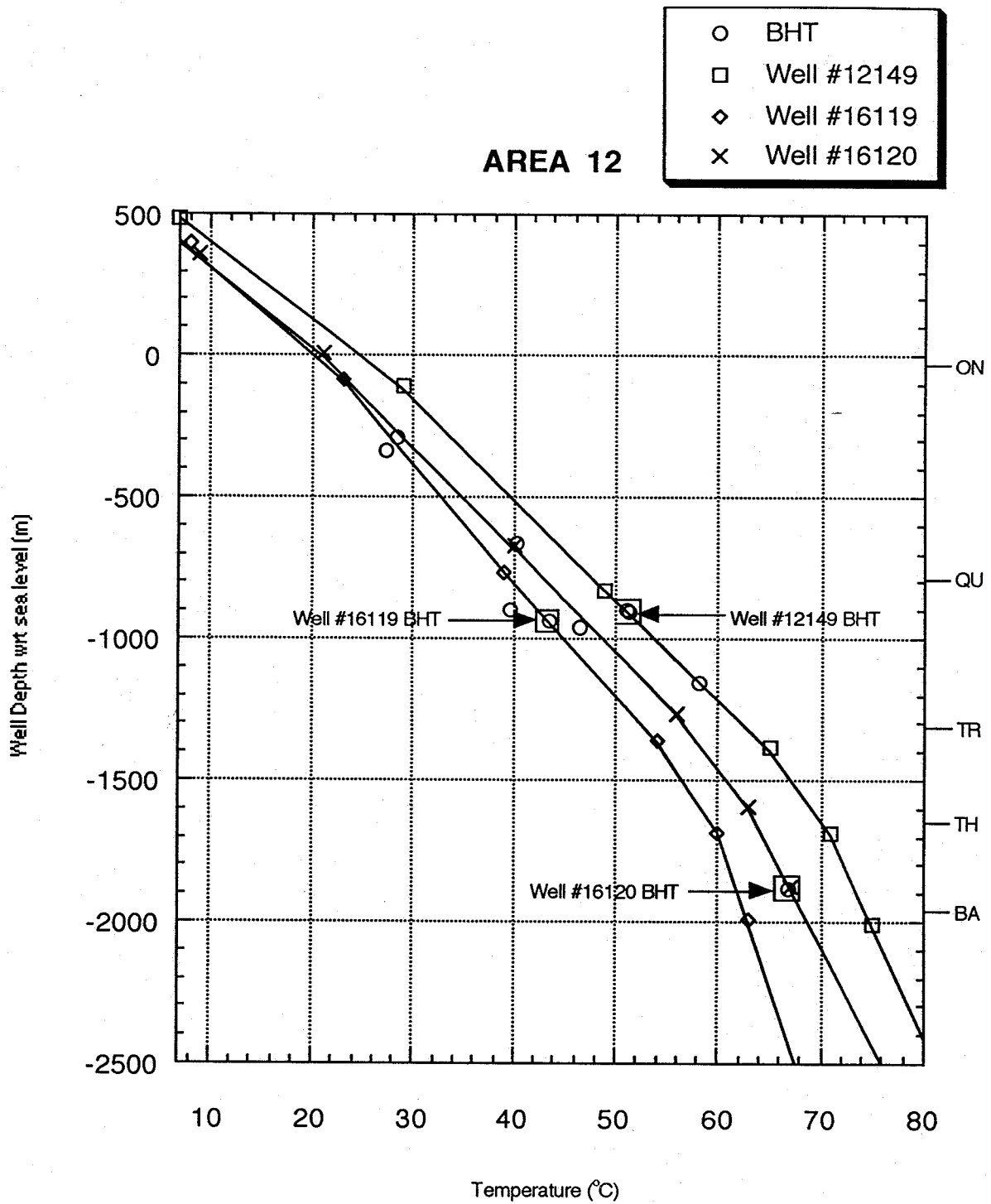


Figure 5-17. BHT data for Area 12.

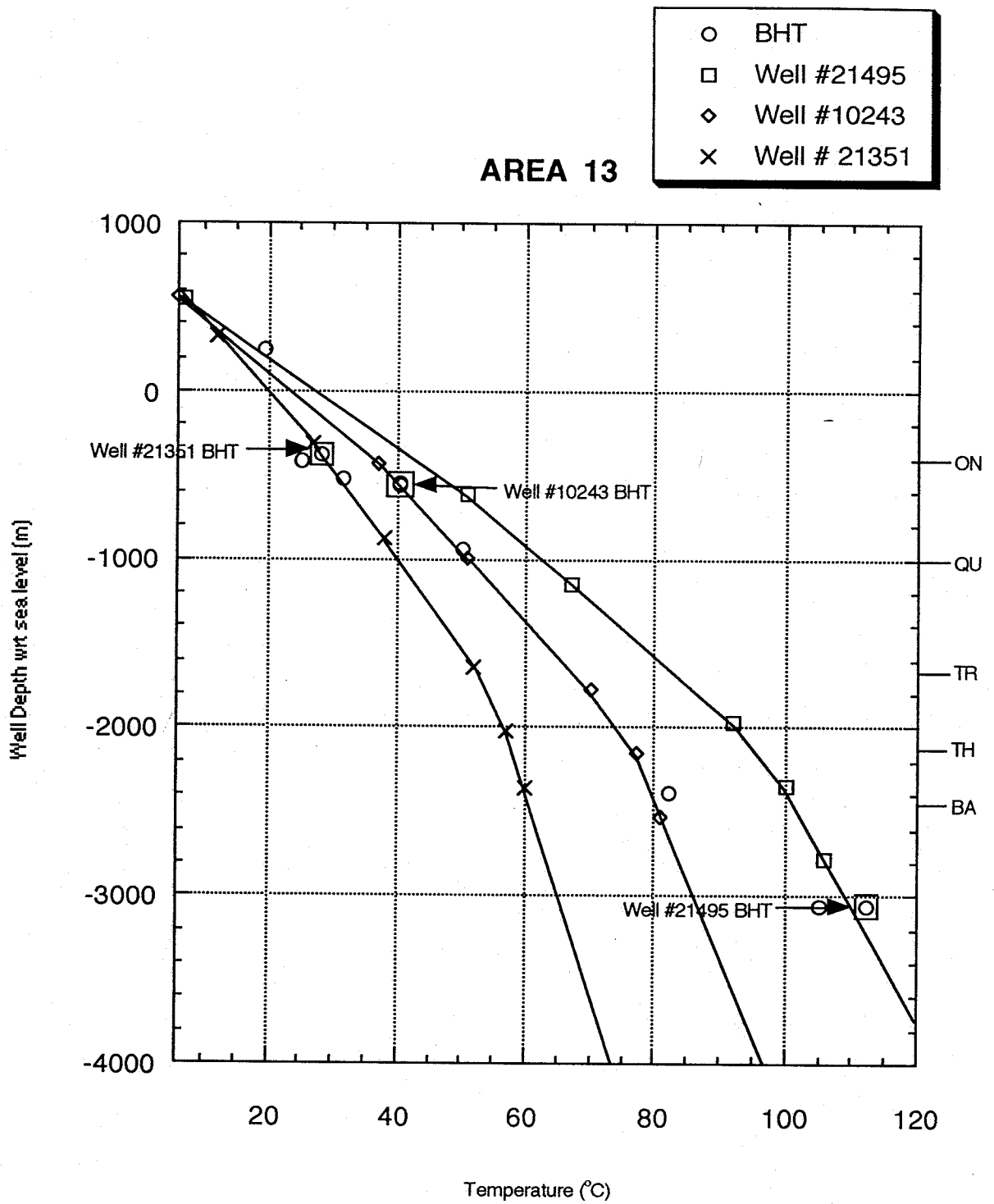


Figure 5-18. BHT data for Area 13.

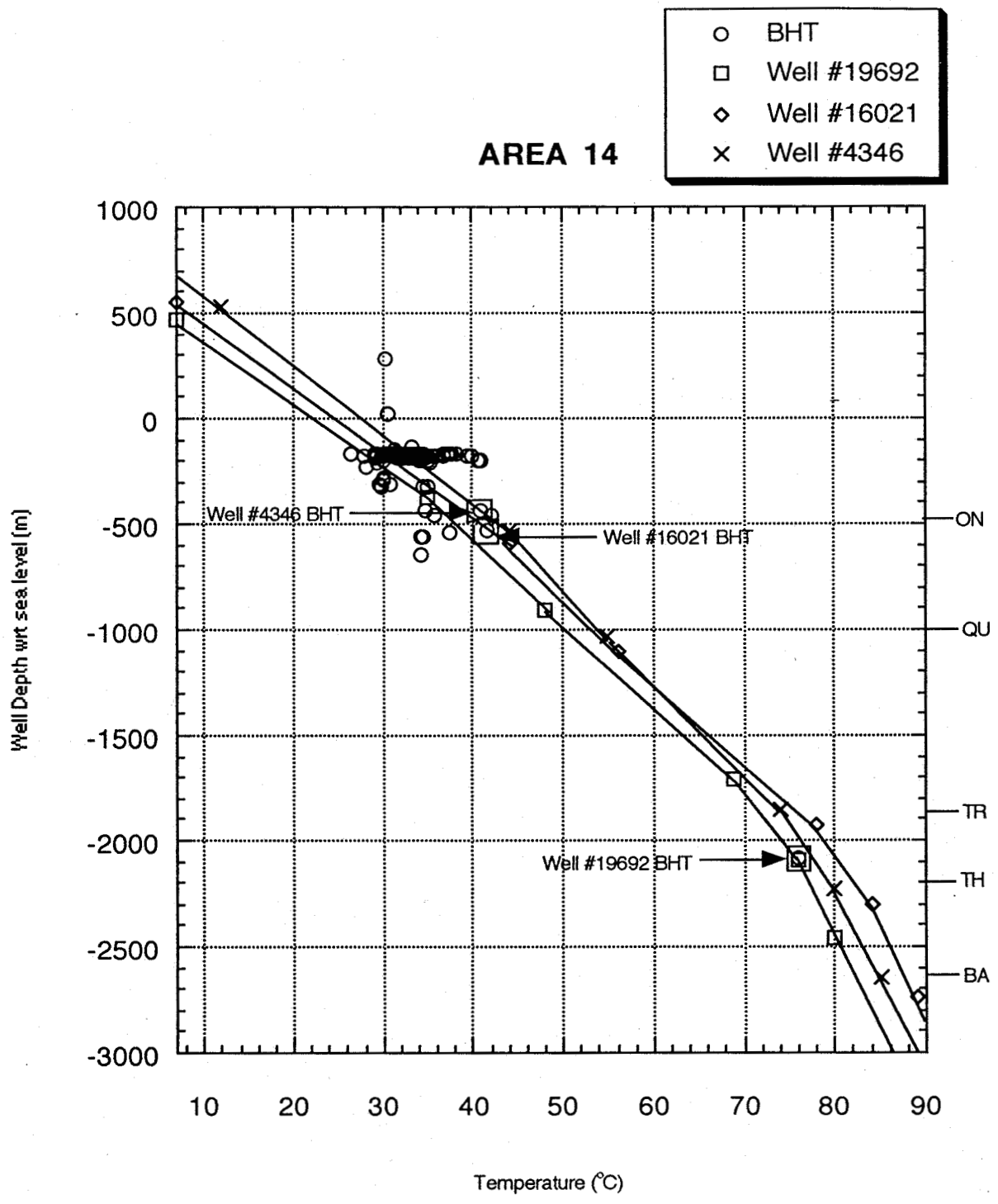


Figure 5-19. BHT data for Area 14.

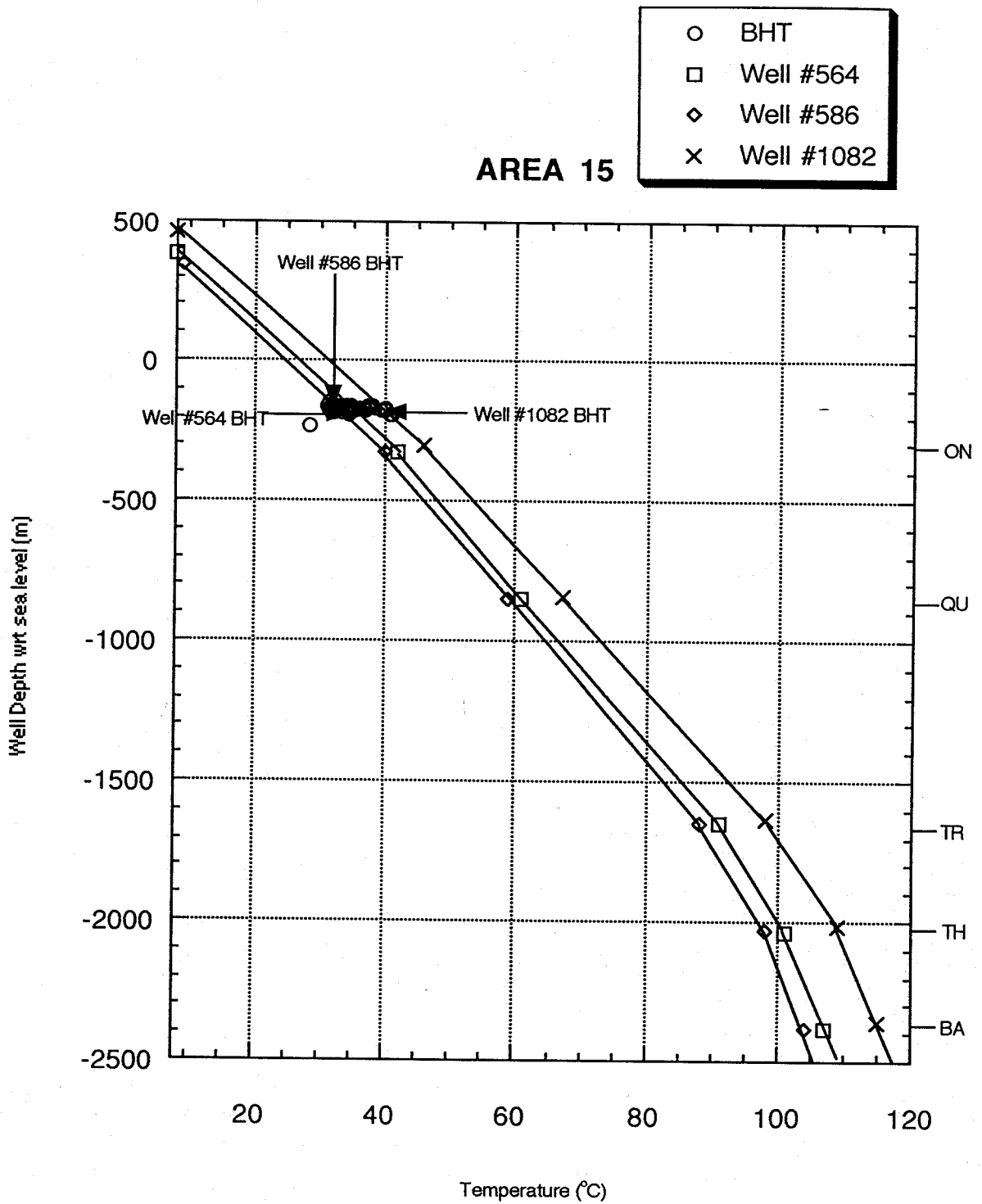


Figure 5-20. BHT data for Area 15.

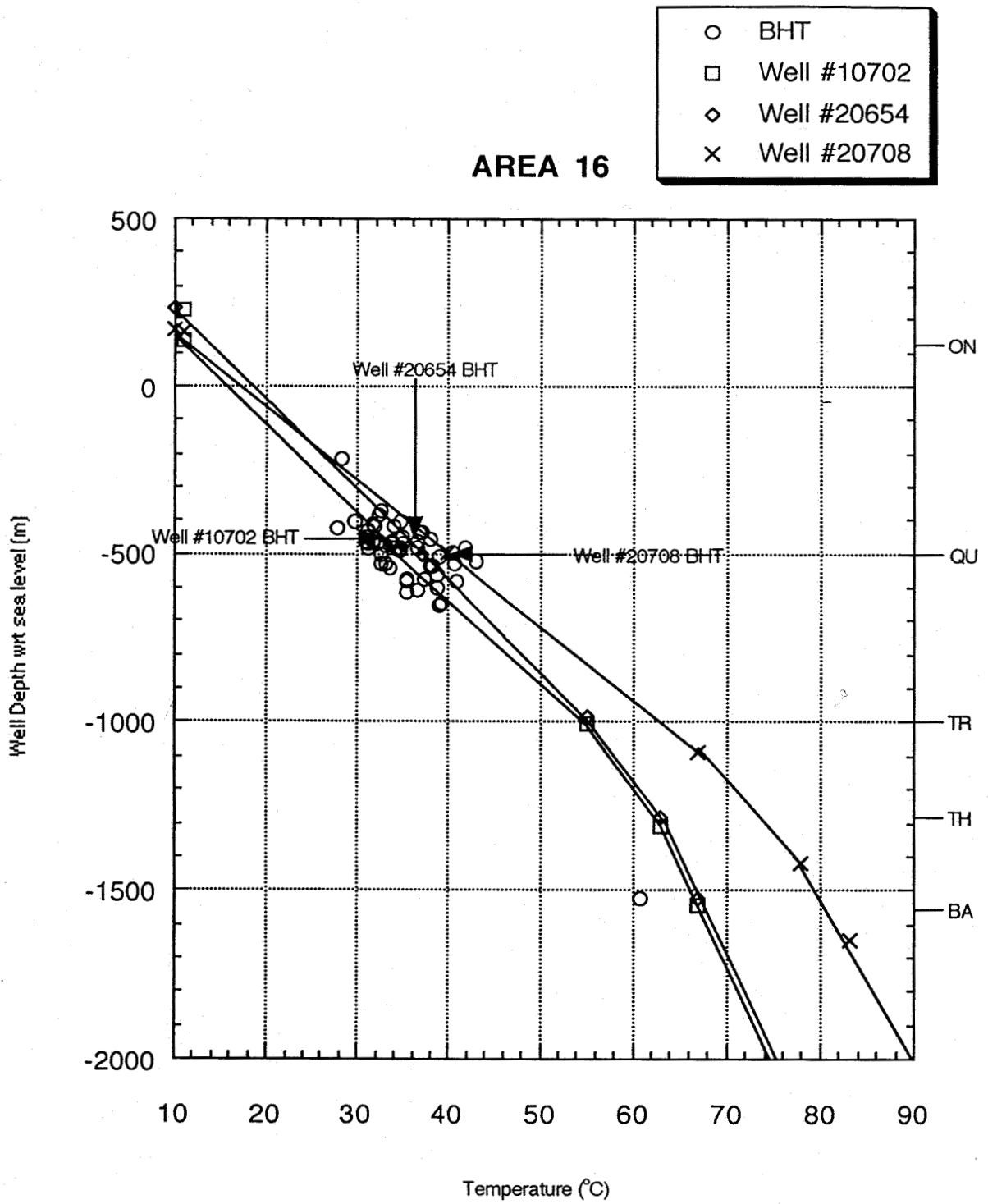


Figure 5-21. BHT data for Area 16.

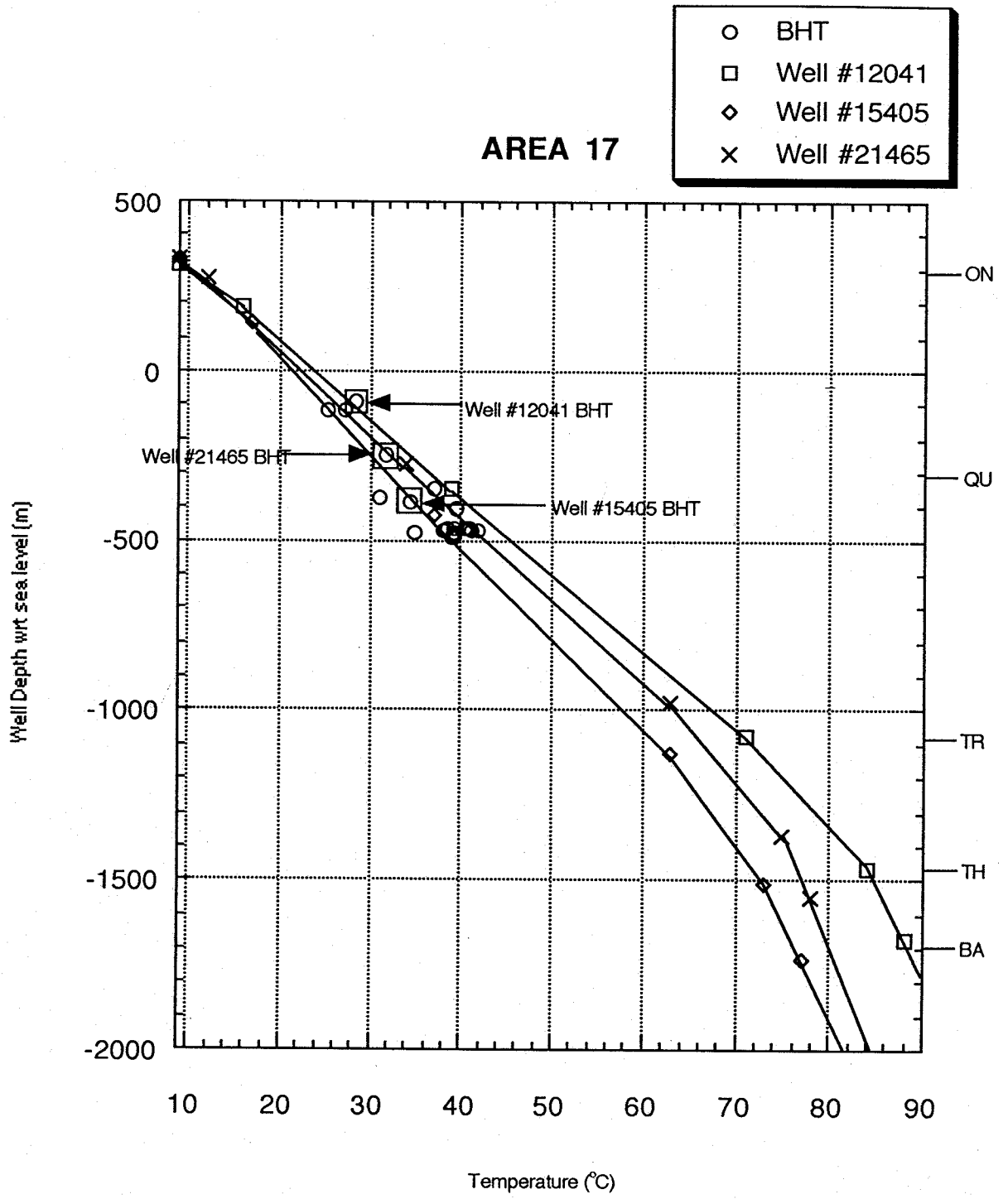


Figure 5-22. BHT data for Area 17.

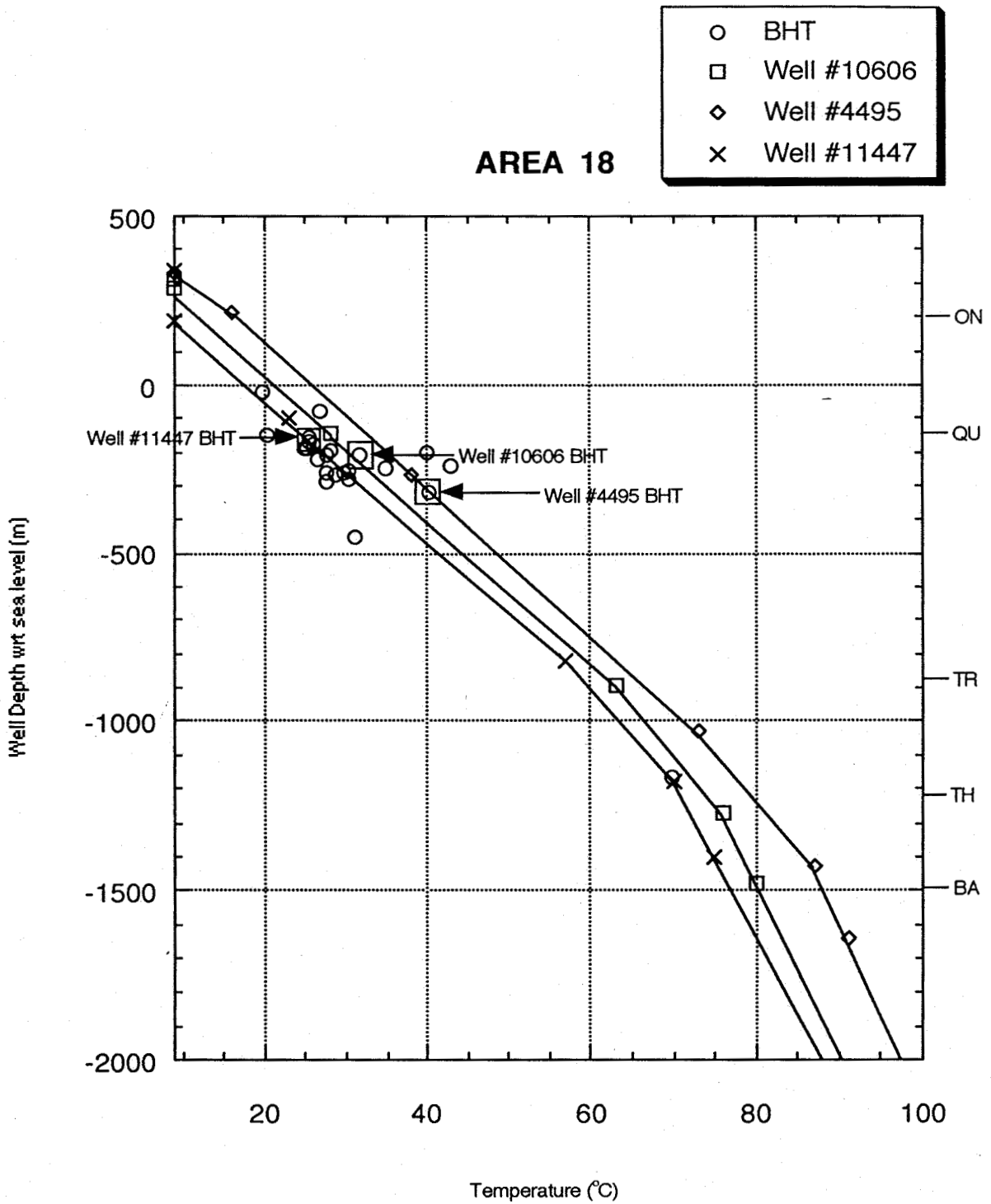


Figure 5-23. BHT data for Area 18.

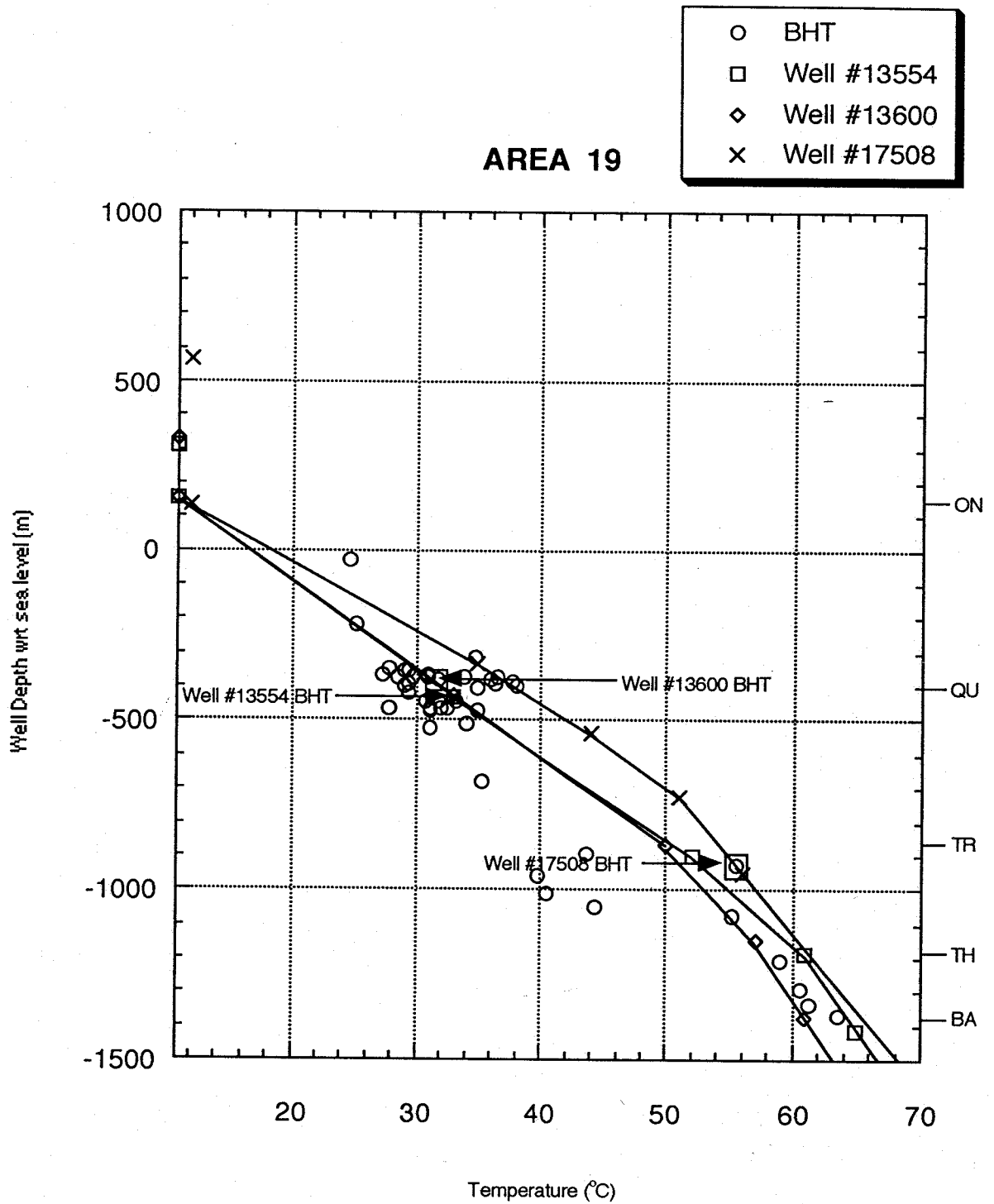


Figure 5-24. BHT data for Area 19.

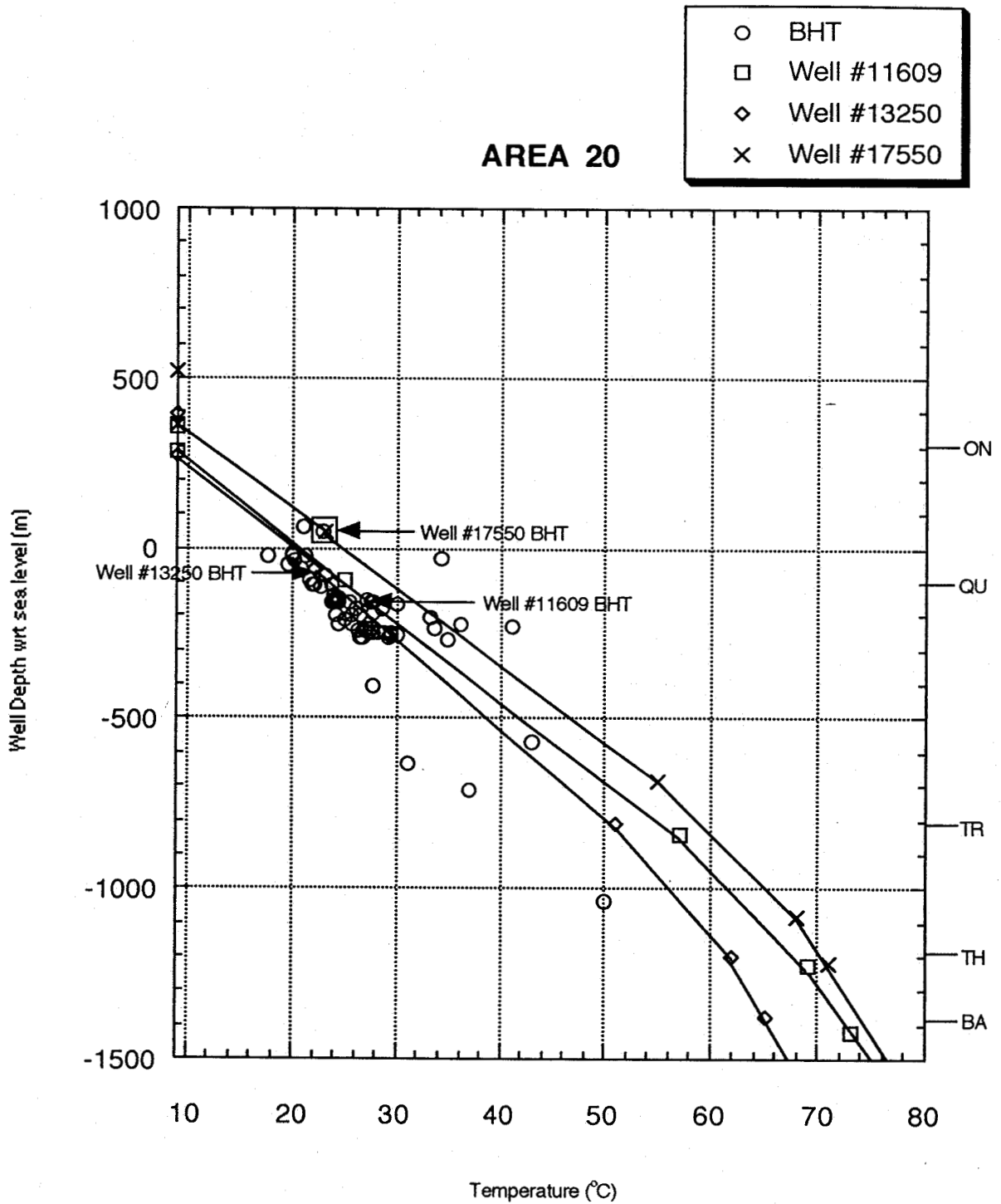


Figure 5-25. BHT data for Area 20.

Section 6

POTENTIAL GEOTHERMAL AREA FOR ELECTRIC POWER

The following guidelines were used in the selection of a geothermal area. The region that had the highest potential for the following combined factors was selected: 1) high temperatures in the Theresa reservoir; and 2) a substantial porous zone in the reservoir. We have chosen an area east and north of Elmira, New York, and in the southern region of the State (see Table 4-1) because of the potential for : 1) obtaining a thick zone of high porosity in the Theresa; and 2) intersecting fracture permeability in the Theresa. A basic assumption in the determination of effective reservoir thickness is that the stratigraphic thickness within the geothermal reservoir that exceeds 8% porosity is the only effective zone for production of geothermal fluids.

The analysis of our data from bottom hole temperatures obtained from oil and gas wells drilled in New York State is the basis of the thermal information used in the selection of an area. The bottom hole temperatures were used to calculate the temperatures in the geothermal reservoir. This temperature of the geothermal fluid is the average temperature throughout the Theresa reservoir. The brine water from the geothermal reservoir will be obtained from a stratigraphically thick unit (650') but the geothermal fluid will be principally produced from thin zones of high porosity that occur throughout the stratigraphic thickness. The temperatures at the bottom of this reservoir (top of the basement) will certainly be considerably higher than this average temperature, but we assumed that the porous zones are distributed throughout the stratigraphic interval of the Theresa. If under optimum conditions most of the geothermal fluids from the reservoir come from production zones at the bottom of the reservoir, then the estimated temperature will be higher.

**Table 6-1 Potential site for geothermal power facility
geothermal reservoir**

| Latitude | Longitude | Avg. Temp (°C) | Avg. Pressure (psi) | Depth to top Below SL (m) | Depth to bottom Below SL (m) |
|----------|-----------|-------------------|------------------------|------------------------------|---------------------------------|
| 42.0759 | 76.4522 | 136 | 4639 | -2645 | -3146 |

*Abandoned gas well #9848

Robinson (1983) showed that through the central and western section of the State the Theresa has the highest potential for a thick zone of porosity, and a thick zone could produce substantial amounts of fluids. We have also confirmed this in our analysis of recently drilled wells that were not included in the Robinson study. The one factor that we cannot predict is the contribution of fractures to the overall permeability of the reservoir and thus the potential for a substantial increase in production of geothermal fluids. If a geothermal well were to intersect a zone of fracture permeability in the target production area the production of a well could be 10-100 times the production levels predicted based solely on estimates of productivity from matrix permeability. The area selected has a good probability of intersecting fracture enhanced zones in the target zone.

Our estimates of productivity of the geothermal reservoir rock were based on: 1) a specific wellbore size; 2) matrix permeability ; 3) production zones must exceed 10% porosity ;, and 4) a single well. It is recognized that these restrictions produce the most conservative estimates of productivity from a single well (see appendix B). The calculated productivity for the initial production of a geothermal well is 900 barrels/day (approximately 17 klb/hr). This production obviously is only about 1/40 of that required in an electric power plant, but the fluid requirements are subject to the number and type of wells and the fracture enhanced permeability in the reservoir.

The last restriction for the selection was based on costs of drilling. Drilling costs for wells that are less than 10,000 feet deep are substantially less than wells that exceed this depth. Drilling wells in excess of 10,000 feet usually requires larger drilling rigs, not readily available in the eastern US, and special casing is necessary. These requirements add substantially to the cost of a given well.

In the selection of a potential geothermal site any consideration of a drilling depth limitation was not considered and the selection was based on the highest temperatures in the geothermal reservoir regardless of depth. Using this assumption an area about 30 miles east and north of Elmira, New York was chosen.

Section 7

RESERVOIR CHARACTERISTICS OF A POTENTIAL GEOTHERMAL SITE

The potential geothermal reservoir is the Cambrian formations of the Potsdam and the Theresa. The Potsdam and the Theresa are composed of interlayered sandstones and siltstones with some dolostone units. In the vicinity of the selected geothermal site a deep well has been drilled through the Potsdam and Theresa and the geophysical log shows a considerable thickness of zones with porosity in excess of 8%. Based on estimates of the cumulative thickness of porosity zones in this well, an estimated characteristic reservoir for the selected site is developed. The estimates of permeability in this projected well has been determined by using a common empirical relationship of porosity to permeability (Schlumberger, 1987).

Table 7-1 Estimated volume of geothermal fluids in reservoir.

| Geothermal fluid volume | Total geothermal fluid volume | Total geothermal fluid volume |
|---------------------------------|-------------------------------|-------------------------------|
| recovered per acre | recovered for a 40-acre site | recovered for a 160-acre site |
| 2,205,321 ft ³ /acre | 88,212,840 ft ³ | 352,851,360 ft ³ |
| 16,495,801 gal/acre | 659,832,040 gal | 2,639,328,160 gal |
| 392,757 bbls/acre | 15,710,280 bbls | 62,841,120 bbls |
| 178,913 klb/acre | 7,156,520 klb | 28,626,080 klb |
| 62,496 m ³ /acre | 2,499,829 m ³ | 9,999,315 m ³ |

Assumptions to determine Reservoir volume:

Theresa thickness = 900 ft

Volume for 1 acre = 1,112,897 m³

Volume for 160 acres = 178,063,520 m³

Volume for 320 acres = 356,127,040 m³

Assumed recovery of 75% of the geothermal fluids in the reservoir.

ESTIMATES OF THE INITIAL PRODUCTION FROM GEOTHERMAL RESERVOIR

The production of geothermal fluids from the Potsdam and Theresa reservoir depends on the volume of brines available for extraction, the permeability of the reservoir rock, the reservoir pressures, and the thickness of the producing zones. All the parameters have to be estimated because there have been no producing geothermal wells in the vicinity of the proposed site. In addition to the reservoir parameters, the configuration of the well influences the amount of production that can be expected. For example, the wellbore size influences the production amounts that can be expected. The assumed parameters and the expected production are listed in Table 7-2. The production from a well can be described by the following equation

$$IP = \frac{(K * h * \Delta P)}{1000\mu} = \text{Initial Production}$$

where K is the hydraulic conductivity, h is the effective thickness of the production zone, ΔP is the pressure difference from the reservoir to the wellbore, and μ is the viscosity of the geothermal brines. There are a number of equations that describe the initial production of a well and this relationship is from Schlumberger, 1987. It should be emphasized that the production is estimated from a single well and that multiple wells might be expected to contribute to the fluid requirements of a power facility.

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Section 8

ENVIRONMENTAL IMPACT OF A GEOTHERMAL POWER FACILITY

The extraction of geothermal heat from the subsurface sedimentary layers could be designed to be: 1) an open system; or 2) a closed system. In an open system, the geothermal fluids (heated brine water) is pumped to the surface, heat is extracted, and then the fluid is disposed at the surface. In the closed system, the geothermal fluids are brought to the surface, the heat is extracted, and then the fluids are reinjected into the geothermal reservoir. A geothermal power generating plant requires large volumes of geothermal fluids, thus the disposal of these fluids is a primary environmental concern. The fluids from the geothermal reservoir contain metals, hydrocarbons, and dissolved constituents that are potentially harmful to the surface water and to groundwater. In the following sections we discuss the character of the geothermal fluids and existing methods to dispose of brines.

BRINE QUALITY CHARACTERIZATION

Brine quality data is available from the New York State Department of Environmental Conservation (DEC) publications (1988) and from a recent report from Matsumoto, Atkinson, Bunn and Hodge (1992). Table 8-1 shows the chemical analyses of brines from the major oil and gas producing formations. All the brines in the sedimentary reservoirs in New York State contain very high amounts of dissolved solids. The majority of brine generation comes from oil and gas production in the Medina group but there is a close similarity between the brines of the Medina group, and those from the selected geothermal reservoir, the Theresa/Potsdam formations.

From the metal analysis of the Theresa/Potsdam brines, it is evident that the majority of the solids are sodium and calcium, with concentrations of 76,700 mg/L and 31,250 mg/L, respectively. Magnesium, strontium, and potassium contribute significant amounts to the solids but are an order of magnitude less than the sodium and calcium. Iron concentrations are moderate, around 17 mg/L, but their concentrations are two orders of magnitude less than the magnesium and potassium concentrations. The nickel, lead, zinc, and copper concentrations were low and constitute a very small fraction of the dissolved salts in the brine.

The pH for the Medina well brine was measured by Matsumoto et al (1992) to be between 2.7 and 3.3. The DEC (1988) reported a pH range from 4 to 7.6. There are no reports of pH for the Theresa.

CURRENT BRINE DISPOSAL METHODS OF OIL/GAS PRODUCERS IN NEW YORK

Currently acceptable and available brine disposal alternatives, as stated by the DEC, are: road spreading, discharge to surface waters with or without treatment under a SPDES permit, and underground injection. Oil and gas producers in New York State dispose of brine within New York State using one of the above alternatives, or transport the brine out of the State to either Ohio or Pennsylvania for underground injection, road spreading, or for treatment at SPDES permitted facilities. To transport brine, transporters must obtain a waste transporters permit issued by the NYS DEC, and the Division of Solid and Hazardous Waste (DSHW) under 6 NYCRR Part 364.

Under the current regulatory and economic situation facing oil and gas producers in New York State, the general order of preference for brine disposal is: 1) surface water discharge with no prior treatment, applicable only to very dilute brines generated during waterflooding operations; 2) road spreading with no treatment; 3) surface water discharge with treatment; and 4) underground injection. Preference is primarily based on cost.

TABLE 8-1.
Brine quality data from
New York's gas and oil producing zones.

| Parameter (mg/L) | Potsdam/ Theresa | Queenston | Medina | Oriskany | Bass Island | Upper Devonian Oil Zones |
|------------------------------------|---------------------|-----------|---------|----------|----------------|--------------------------------|
| Sodium (Na) | 76,712 | 73,500 | 69,893 | 45,457 | 60,750 | 36,367 |
| Calcium (Ca) | 31,256 | 36,603 | 37,124 | 33,684 | 56,400 | 16,467 |
| Magnesium (Mg) | 4,499 | 2,887 | 2,766 | 5,168 | 3,160 | 2,733 |
| Strontium (Sr) | - | 0 | - | - | - | 107 |
| Barium (Ba) | 750 | 0 | - | - | - | 8 |
| Potassium (K) | 3,367 | 1,124 | - | 1,307 | - | 71 |
| Iron (Fe) | 17 | 195 | 676 | 215 | 18 | 189 |
| Manganese (Mn) | 0 | - | 84 | - | 0 | 7 |
| Chloride (Cl) | 183,701 | 187,418 | 181,298 | 145,442 | 203,000 | 92,167 |
| Bromide (Br) | 1,417 | 1,120 | 1,721 | 1,687 | - | 860 |
| Sulfate (SO ₄) | 18 | - | 736 | 57 | 180 | 619 |
| Bicarbonate (HCO ₃) | 89 | - | 25 | 203 | 50 | 0 |
| Iodine (I) | 9 | 11 | 18 | 10 | - | 200 |
| Lithium (Li) | 54 | - | - | - | - | - |
| Trace Metals | - | - | - | - | - | 0.74 |
| Hydrocarbons | - | - | - | - | - | 107.5 |
| Measured TDS | 300,763 | 298,358 | 292,121 | 231,836 | 323,500 | 152,267 |
| Calculated TDS | 299,187 | 302,869 | 292,727 | 232,743 | 323,558 | 149,582 |
| IONIC RATIOS | | | | | | |
| Na/Ca | 2.4 | 2.01 | 1.89 | 1.42 | 1.08 | 2.24 |
| Ca/Mg | 9.75 | 12.76 | 15.9 | 6.93 | 34.17 | 6.04 |
| Mg/K | 1.07 | 2.64 | - | 4 | - | 47.03 |
| Cl/Br | 142.84 | 255.07 | 102.49 | 104.86 | - | 104.6 |
| No. of Analyses | 9 | 2 | 8 | 4 | 2 | 3 |

(Matsumoto et. al, 1993, p. 2-14)

Due to the varying nature of the chemical composition of brines, not all the disposal options are available for specific brines. Diluted brines from waterflooding operations can be surface discharged without treatment provided that a SPDES permit is obtained. Diluted brines, however, are undesirable for road spreading and are not used. Concentrated brines from deep formations cannot be discharged at the surface unless they are treated by a permitted facility prior to discharge. These concentrated brines are well suited for road spreading purposes, however. Both diluted and concentrated brines can be injected underground.

Of the available disposal alternatives for the highly saline brines, road spreading is the least expensive. The primary cost in road spreading is transportation to the road-spreading site. Surface discharge through a SPDES permitted facility, either a municipal or industrial wastewater treatment plant, or a designed brine treatment facility, is the next most economical disposal alternative. Transportation and treatment/disposal charges are the major costs involved in this disposal alternative. Although the cost of brine disposal by underground injection does not differ significantly from that of surface discharge through a SPDES permitted facility, the oil and gas producers find that the least desirable of the alternatives is underground injection. Regulatory concerns, permit requirements, and the lack of adequate injection wells in the vicinity of the oil/gas producing areas of New York State are the principal reasons .

Road Spreading

Sodium chloride (NaCl) and calcium chloride (CaCl₂) are widely used for highway maintenance. Sodium chloride is used more extensively for snow and ice control operations because of its lower costs; while calcium chloride, which is also good for ice control, is used primarily for dust control and as a road stabilization agent.

The chemical characteristics of the more concentrated brines compare favorably to chemical characteristics of commercial road salt, making brine attractive to local highway departments for road maintenance. Additional factors stimulating their use are the relatively low cost of brines (the materials cost to highway departments are free) and the producers' need for a means to properly dispose of these fluids (DEC, 1988a).

Approximately 30 percent of the highly saline brine generated in New York State is disposed by road spreading. The majority of brine used for road spreading is from deep gas well production. Brines from waterflooding oil fields are too dilute for road spreading.

Under current state regulations, a 6 NYCRR Part 364 permit is required from the DEC to spread brines on paved or unpaved roads. Part 364 permit requirements include written approval from the owners of the road spreading site, the local highway superintendent, and minimal monitoring requirements (no visible oil or grease in the brine).

The primary problem with road spreading is its seasonal nature. The imbalance between brine production and use on roads means that brines must either be stored between periods of use or alternative disposal means found (DEC, 1988a).

Environmental concerns stem from the fact that brine is a liquid. If improperly applied, potential runoff and spills may occur polluting underlying groundwater and damaging roadside vegetation. Oil and gas brines contain lower concentrations of calcium chloride than the commercial solutions used in dust control. As a result, additional applications of brine are needed for dust control, increasing the possibility of runoff and spill problems.

Brines are also less desirable than solid salt for road deicing. Refreezing of the liquid brine during snow and ice control may result in slippery and icy surfaces. Solid granules from commercial road salt are thought to be more effective in penetrating through the ice to break the ice bond with the pavement.

Discharge to Surface Waters

Brine may be discharged directly into a receiving water provided that a SPDES permit is obtained. Permit conditions for such discharges include limitations of total dissolved solids (TDS), oil and grease, and any other pollutants of water quality concern as determined by the DEC. At the present time, SPDES permits for direct surface water discharge are confined to brines from waterflooding operations, which comprise the large majority of brines generated in New York State (DEC, 1988a).

Another possible method of disposal for brines is processing at a SPDES permitted municipal or industrial wastewater treatment plant. Brines are blended with the normal wastewater, and co-treated together. The volume of brine treated per unit volume of normal wastewater treated is quite low, less than one gallon of brine per 1,000 gallons of wastewater to provide a high level of dilution for the dissolved solids. The brine goes through the same treatment processes as the normal wastewater. Oil and grease are removed by flotation and biological treatment. Turbidity and heavy metals are removed by bioadsorption and flocculation/sedimentation in the secondary treatment processes.

One major concern for SPDES permitted facility that use biological treatment is the potential disturbance of the biological process. As a precaution, brine must be introduced very slowly to prevent a sudden change in the osmotic pressure. For this

reason, use of existing municipal and industrial wastewater treatment plants as a disposal alternative is unreliable. Such facilities can only be relied on as a short-term alternative for a small volume of high-strength oil and gas brines.

Two wastewater treatment facilities specifically designed and operated to treat brines are located in northwestern Pennsylvania, within 100 to 150 miles of the major brine generating regions in New York State. These facilities treat only oil and gas production fluids and do not employ any biological processes. Both of these facilities are NPDES permitted, with discharge limits on total suspended solids (TSS), pH, oil and grease, and total dissolved solids (TDS). There are additional monitoring requirements for heavy metals, although discharge limits have not been established. DEC policy does not allow them to issue any specific permit levels until an application for a permit is submitted to their office and reviewed at their headquarters in Albany.

Underground Injection

Although underground injection has been widely used in other states to dispose of brine water, use of this technique has been discouraged in New York State. A SPDES permit from the DEC is required for an injection disposal well in New York State, along with a federal underground injection control (UIC) permit.

The federal UIC permit requires certain monitoring requirements. Monitoring injection pressure, rate of injection, annular pressure, and accumulative volumes injected is recorded on a daily basis. In addition, a groundwater monitoring program must be established to ensure that contaminants are not migrating toward potable aquifers.

There are five permitted injection wells in New York State (Table 8-2). Two of the injection wells are located in Chautauqua County; other wells are in Steuben, Livingston, and Wyoming Counties.

The primary environmental consideration for approval of an injection permit application is protection of groundwater resources. If the injected brine were to escape from the well because of mechanical failure, significant environmental impact may occur before detection. Protection is achieved through stringent controls on the casing and cementing of the injection well.

Although it is common to consider the brines as disposed of, they are actually stored in an underground formation. Due to geological changes or mechanical failures, these reserves could cause future environmental problems. Failures within the disposed system are extremely difficult to detect and correct.

The porosity and permeability of the receiving zone is a significant factor for a disposal well. If too high a pressure is necessary to move water into the formation, or if the formation will not accept water quickly enough, the well is undesirable for injection purposes. Most formations in New York State have relatively "low porosity" and do not readily accept injected fluids (DEC, 1988b). This is a primary reason why there are so few underground injection wells in New York. The Theresa formation in the area selected for the geothermal power facility has stratigraphic zones that contain porosity in excess of 10 percent. This porosity suggests that the Theresa formation may be able to accept the reinjected fluids.

Wells require an injection pump as part of the surface equipment. Depending on the depth of the well and the injection pressures, the power requirements may be very substantial.

Not only is deep well injection expensive, the well can quickly be damaged without adequate and proper treatment of the injection fluid. Operation of a disposal well usually follows three steps. The first step is to off-load the brine from a truck into a holding tank. This allows time for any oil to separate and move to the top of the tanks, and any solids to drop to the bottom. The second step of the treatment is filtration. A washable 25-micron filter followed by a 5-micron filter helps protect the injection zone from suspended solids buildup. The last step is chemical treatment. The use of a biocide protects against bacterial activity in the well. Bacterial slime can plug the receiving formation, thus shutting down the well. A corrosion inhibitor is also used to prevent tubing deterioration.

TABLE 8-2.
Permitted brine disposal wells in New York.

| Well | Permitted rate, bbls/year | 1989 volume injected, bbls |
|---|------------------------------|-------------------------------|
| Ewell #1 121-13965, Covington, Wyoming Co. | 50,000 | 2,567 |
| H-229 101-00033, Greenwood, Steuben Co. | 219,000 | 39,800 |
| Marapeg #3 013-16813, Chautauqua, Chautauqua Co. | 146,000 | 57,656 |
| Ranous #1 051-16133, Caledonia, Livingston Co. | 146,000 | 1,957 |
| Tecronev #1 013-18798, Clymer, Chautauqua Co. | 730,000 | 0 |

(Matsumoto et. al, 1993, p. 2-23)

ENVIRONMENTAL CONCERNS FROM ACCIDENTAL SPILL OF BRINE WATER

It is difficult to predict the extent of the environmental impacts that may result from an accidental spill, leak, or improper disposal of brine water. The environmental impacts will depend on the composition of the brine, volume of the spill or leakage, the flow and quality of the receiving water or the natural attenuating capabilities of the soil, the proximity of sensitive resources, and the success of cleanup operations (DEC, 1988a). Based on chemical analyses of the brines generated in New York State, chlorides, heavy metals, and total dissolved solids (TDS) have been identified as the primary contaminants of concern. Other contaminants found in brines that are of concern are oil and grease, and turbidity. Each of these contaminants is discussed below.

Chlorides

Chloride levels of 200,000 mg/L and higher are not uncommon for brine waters generated by oil and gas production. Fortunately, chloride is a relatively non-toxic chemical. Therefore, the impact of chloride from a single accidental leak or spill of brine water poses little long term threat to ground or surface drinking water quality, assuming ample dilution of the brine with fresh water. However, chloride levels in both ground and surface waters will increase in areas subjected to frequent and prolonged additions of chloride, whether from road salting or chronic contamination by chloride-bearing wastewaters. If chloride concentration increases in an aquifer, little can be done to remediate the situation. There are currently no economically feasible methods to remedy the situation in any reasonable period of time (DEC, 1988a). Dilution of the chloride as a result of groundwater recharge with high quality (low chloride) water, naturally or artificially, is the only means of remediation.

Acute effects of chloride on plants and fish may occur because of a sudden change in osmotic pressure. Excessive concentrations of sodium chloride osmotically inhibit the ability of plants to absorb water (Miller, 1978). Spillage of brine or other waste fluids high in sodium chloride almost always kills vegetation and sterilizes the soil until the salts are flushed from the soil. In the Northeast, however, soil salt toxicity is short lived because of the high rainfall and rapid leaching of the sodium and chloride salts.

Roughly one-third of the freshwater consumed in New York State comes from groundwater supplies. In upstate New York more than 2 million people receive drinking water from small private water wells. Many of the groundwater supplies in the western portion of New York State are located in the same vicinity as oil and gas operations (DEC, 1988a). As a result, the prime concern of the DEC is the protection of groundwater drinking supplies from contamination with brine.

New York State's public drinking water standard for chloride is 250 mg/L, which is the taste threshold of sodium chloride in water (see Table 8-3). Considering the chloride concentration of the brine it is evident that substantial dilution of the brine is necessary to reduce the chloride concentration to the State's drinking water standard.

Heavy metals

Brine has measurable concentrations of several soluble metals including strontium (Sr), lead (Pb), manganese (Mn), copper (Cu), zinc (Zn), iron (Fe), nickel (Ni), cadmium (Cd), and chromium (Cr). Most of these substances are known to pose an environmental threat to humans, animals, and plants if they are present in elevated concentrations in drinking water, surface water, ground water, and/or the soil. Recommended levels for the above constituents in soil and drinking water are listed in Table 8-3.

The environmental impact of heavy metals from brine spilled onto soil depends on a number of factors including soil pH, alkalinity, cation exchange capacity, organic content, degree of water saturation, and other chemicals present. In general, heavy metal mobility and the threat of groundwater contamination increases as the soil pH decreases. In the Northeast, acid rains increase the possibility of heavy metal mobility. In addition, low pH soils increase the likelihood of metal uptake by plants. Plant uptake is a concern because it is the metal's primary route into the animal and human food chains. Cadmium is the most likely metal to pose a threat to human health through plant accumulation. It is particularly dangerous because of its severe effect on the kidneys (DEC, 1988a). Copper, nickel, and zinc are other metals that could pose the serious threats to plant life. Plants require several of these metals in trace amounts for their own growth. However, excessive amounts of metals, particularly zinc or copper, can reduce plant yields or even cause their death.

Total dissolved solids

The high total dissolved solids (TDS) concentration of brine water, >250,000 mg/L, could affect aquatic life significantly if released randomly into a receiving stream. The combined effect of the TDS levels from the dissolved sodium, calcium, magnesium, chloride, and sulfate could result in fish-kills, deformation of fish larvae, and other problems (DEC, 1988a). For this reason, the DEC sets stricter regulations on wells sitting around surface waters and known aquifers to prevent spills.

Oil and grease

Oil and grease are not definitive chemicals, but rather general designations for thousands of organic compounds with varying physical, chemical, and toxicological properties. They may be volatile or non-volatile, soluble or insoluble, persistent or easily degraded. However, oil and grease found in brines may be generally described as being

primarily made up of long-chain hydrocarbons, which are fairly insoluble and non-volatile.

Aesthetic degradation is the primary concern associated with oils and grease. When released to a surface water, oils and grease float on the surface, giving the water a sheen. In addition, because they are insoluble, oils and greases readily attach to surfaces and will accumulate along the shoreline. The US EPA has established a criterion that surface waters should be virtually free of oils and grease, especially from petroleum products that impart taste.

TABLE 8-3.
Recommended levels for heavy metals
in soil and drinking water.

| Constituent | Drinking water standard ^a , mg/L | Tolerable soil concentration ^b , mg/kg |
|-------------|---|---|
| Cadmium | 0.010 ^c | 3 |
| Chromium | 0.05 ^c | 100 |
| Copper | 1 ^d | 100 |
| Iron | 0.3 ^d | N/A ^e |
| Manganese | 0.05 ^d | 1,000 |
| Nickel | N/A | 50 |
| Lead | 0.05 ^c | 100 |
| Strontium | N/A | N/A |
| Zinc | 5 ^d | 300 |

^aUS EPA Drinking Water Standards (40 CFR)

^bWorld Health Organization (Alloway, 1990)

^cPrimary standard (health concerns)

^dSecondary standard (aesthetic concerns)

^eNot applicable

(Matsumoto et. al, 1993, p.3-3)

Turbidity

Turbidity interferes with recreational use and aesthetic enjoyment of water. The less turbid the water the more desirable it becomes for swimming and other related sports such as fishing.

With regard to environmental and health effects, increased turbidity can adversely affect fish and fish food populations. Turbidity reduces light penetration into the water body, reducing the depth of the photic zone (depth of photosynthetic activity in the water column). This reduces primary production and decreases fish food. Additionally, the near surface waters are heated more because of the greater heat absorbency of the particulate matter associated with the turbidity, which tends to stabilize the water column and prevent vertical mixing. Such mixing reductions decrease the dispersion of dissolved oxygen and nutrients to lower portions of the water body. The US EPA has recommended that the depth of light penetration not be reduced by more than 10 percent as a result of wastewater discharge.

EXISTING BRINE TREATMENT FACILITIES WITH SURFACE WATER DISCHARGES

Two brine water treatment facilities currently operate in Pennsylvania: Cabot Oil and Gas Corp. Franklin Brine Treatment Plant in Franklin; and Environmental Development Corp. Warren Brine Treatment Facility in Warren. Both facilities treat brine generated by oil and gas producers from western Pennsylvania and southwestern New York State. The Franklin Brine Treatment Plant is about 89 miles southwest of Jamestown and the Warren Brine Treatment Facility is 22 miles south of Jamestown.

These facilities use a series of chemical and physical unit processes to treat the brine and discharge their effluent into the Allegheny River. The process is designed to remove oil and grease, turbidity, and heavy metals, and to adjust the pH of the effluent to an acceptable level before discharge. The Franklin Brine Treatment Plant design capacity is 205,000 gallons per day, while the Warren Brine Treatment Facility operates at 150,000 gallons per day. Both facilities currently (1991) charge \$0.0325 per gallon (\$1.37/bbl) to treat the brine water.

Section 9

SUBSURFACE DISTRIBUTION OF POTENTIAL HDR SITES

A sedimentary layer covers crystalline basement rocks over a large region of central and western New York. Because of this cover and the fact that few wells have penetrated into the basement crystalline rocks, the geology of the basement rock is principally understood through geophysical measurements. The gravity field provides the best technique to determine the mass distributions and the potential for homogeneous crystalline rocks.

One of the primary criterion for the selection of a potential hot dry rock (HDR) geothermal site is for the source reservoir to be homogeneous in rock composition and in structural elements. Ideally the potential source reservoir should be devoid of large fractures or faults and lacking in strong mineralogical banding. A rock type that might have these characteristics is a large granite batholith. Metamorphic rocks generally would not meet these criteria. Since the basement crystalline rocks are buried beneath sedimentary rocks, geophysical techniques are required to identify homogeneous igneous rocks in the basement of New York State. Basement crystalline rocks are exposed in the Adirondack Mountains and in the Canadian Shield north of Lake Ontario. Associated with the occurrence of granite batholiths in these regions are negative broad Bouguer anomalies. Thus, granite batholiths can be identified in the subsurface basement though the analysis of the Bouguer map of the State.

A large negative gravity anomaly is located east of Rochester, New York, and this anomaly trends north-south toward the southern boundary of the State. This anomaly is most likely associated with a large granite batholith. This probably granite batholith is the prime candidate for any HDR potential site. Other granite batholiths may be found in western New York, near East Aurora, but lower heat flow in this region and thinner sedimentary cover make this region a less favorable choice.

CONCLUSIONS

Temperatures measured with respect to depth in oil and gas wells in New York show distinct temperature gradients that correspond to specific stratigraphic layers. The change in temperature gradients is a result of thermal conductivity differences in the stratigraphic layers. Using this correlation, a three dimensional representation of the thermal conductivity in upstate New York is developed. With this representation of thermal conductivity and with observed bottom hole temperatures, extrapolation of temperatures to a specific depth for a given location are made. These predicted temperatures are contoured in order to develop thermal maps of upstate New York for the purpose of understanding the geothermal resource.

The Theresa/Potsdam stratigraphic unit have been identified as the best candidate for extraction of geothermal fluids. In local regions of upstate New York the thickness of the Theresa/Potsdam layers, containing in excess of 10 per cent porosity, may exceed 125 feet (Robinson, 1983). This unit also yields high rates of brine water at specific locations. Thus the combination of thick zones and high temperatures is the target for potential geothermal sites.

Calculated temperatures on the top of the Theresa formation show that the region in southern central New York near Elmira, NY has the highest potential temperatures in the Theresa/Potsdam geothermal reservoir. A site 30 miles to the east of Elmira, NY was selected as a potential site for a electric power geothermal facility. At this location temperatures of about 130 °C were reported in a abandoned gas well and the geophysical log of this well indicated in excess of 450 feet of 8 per cent porosity. Using data from the abandoned well, estimates of geothermal fluid flow and thermal parameters were made. From these preliminary calculations using only matrix permeability estimates the estimated fluid flows from a single well may reach about 900 barrels per day. Enhanced fluid flow is expected if fracture permeability is encountered at the site. These estimates were given to Dyncorp, Inc. for economic analysis of a electric power facility.

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**APPENDIX A:
TABLES A1-A8**

Table A-1.

Temperature-depth data, well #13571 (Winspear #1).

| Depth (M) | Temp. (C) | Depth (M) | Temp. (C) |
|--------------|--------------|--------------|--------------|
| 47.8 | 15.18 | 175.2 | 18.58 |
| 51.0 | 15.26 | 178.4 | 18.68 |
| 54.2 | 15.33 | 181.6 | 18.78 |
| 57.3 | 15.40 | 184.7 | 18.88 |
| 60.5 | 15.47 | 187.9 | 18.99 |
| 63.7 | 15.53 | 191.1 | 19.08 |
| 66.9 | 15.61 | 194.3 | 19.18 |
| 70.1 | 15.68 | 197.5 | 19.26 |
| 73.3 | 15.76 | 200.7 | 19.37 |
| 76.4 | 15.83 | 203.9 | 19.45 |
| 79.6 | 15.87 | 207.1 | 19.55 |
| 82.8 | 16.01 | 210.2 | 19.65 |
| 86.0 | 16.10 | 213.4 | 19.74 |
| 89.2 | 16.17 | 216.6 | 19.85 |
| 92.4 | 16.24 | 219.8 | 19.96 |
| 95.6 | 16.32 | 223.0 | 20.07 |
| 98.8 | 16.40 | 226.2 | 20.18 |
| 101.9 | 16.47 | 229.3 | 20.28 |
| 105.1 | 16.53 | 232.5 | 20.42 |
| 108.3 | 16.60 | 235.7 | 20.49 |
| 111.5 | 16.69 | 238.9 | 20.52 |
| 114.7 | 16.77 | 242.1 | 20.59 |
| 117.9 | 16.83 | 245.3 | 20.65 |
| 121.0 | 16.91 | 248.4 | 20.71 |
| 124.2 | 17.03 | 251.6 | 20.76 |
| 127.4 | 17.14 | 254.8 | 20.80 |
| 130.6 | 17.24 | 258.0 | 20.85 |
| 133.8 | 17.32 | 261.2 | 20.89 |
| 137.0 | 17.41 | 264.4 | 20.94 |
| 140.1 | 17.48 | 267.6 | 20.98 |
| 143.3 | 17.57 | 270.8 | 21.02 |
| 146.5 | 17.66 | 273.9 | 21.05 |
| 149.7 | 17.75 | 277.1 | 21.08 |
| 152.9 | 17.86 | 280.3 | 21.12 |
| 156.1 | 17.95 | 283.5 | 21.16 |
| 159.3 | 18.08 | 286.7 | 21.28 |
| 162.5 | 18.18 | 289.9 | 21.36 |
| 165.6 | 18.28 | 293.0 | 21.40 |
| 168.8 | 18.38 | 296.2 | 21.44 |
| 172.0 | 18.47 | | |

Table A-2.

Conductivity, temperature, and gradient data for well #13571 (Winspear #1).

| Depth Interval (Meters) | Thermal Conductivity | | | Gradient (C/KM) | Temperature Interval Top (C) |
|----------------------------|----------------------|----------|------------------------|--------------------|---------------------------------|
| | K (Bulk) (W/M C) | Porosity | K (In Situ) (W/M C) | | |
| 86.0-101.9 | 2.14 | 0.08 | 1.93 | 23.5 | 16.1 |
| 101.9-117.9 | 1.98 | 0.08 | 1.80 | 23.4 | 16.5 |
| 117.9-130.6 | 1.94 | 0.08 | 1.77 | 31.9 | 16.8 |
| 130.6-146.5 | 2.21 | 0.09 | 1.96 | 26.4 | 17.2 |
| 146.5-162.5 | 1.77 | 0.08 | 1.62 | 33.0 | 17.7 |
| 162.5-178.4 | 1.73 | 0.07 | 1.60 | 31.3 | 18.2 |
| 178.4-194.3 | 1.53 | 0.06 | 1.45 | 31.5 | 18.7 |
| 194.3-203.9 | 1.54 | 0.05 | 1.47 | 28.9 | 19.2 |
| 203.9-223.0 | 1.27 | 0.06 | 1.21 | 32.3 | 19.5 |
| 223.0-232.5 | 1.44 | 0.11 | 1.31 | 36.1 | 20.1 |
| 232.5-251.6 | 3.25 | 0.01 | 3.19 | 17.8 | 20.4 |
| 251.6-267.6 | 2.69 | 0.01 | 2.65 | 14.0 | 20.8 |
| 267.6-277.1 | 3.05 | 0.02 | 2.95 | 10.4 | 21.0 |
| 277.1-296.2 | 2.55 | 0.07 | 2.30 | 20.6 | 21.1 |
| 296.2-313.9 | 2.35 | 0.05 | 2.19 | 18.9 | 21.4 |
| 313.9-329.2 | 2.72 | 0.03 | 2.60 | 15.9 | 21.0 |
| 329.2-341.4 | 3.19 | 0.02 | 3.09 | 13.4 | 21.3 |
| 341.4-359.7 | 3.25 | 0.05 | 2.99 | 13.8 | 21.6 |
| 359.7-371.9 | 2.74 | 0.03 | 2.61 | 15.8 | 22.0 |
| 371.9-390.1 | 3.07 | 0.06 | 2.79 | 14.8 | 22.2 |
| 390.1-405.4 | 3.25 | 0.05 | 2.99 | 13.8 | 22.6 |
| 405.4-420.6 | 3.36 | 0.08 | 2.93 | 14.1 | 22.9 |
| 420.6-435.9 | 2.05 | 0.08 | 1.86 | 22.2 | 23.3 |
| 435.9-451.1 | 1.79 | 0.06 | 1.68 | 24.6 | 23.6 |
| 451.1-466.3 | 2.30 | 0.04 | 2.18 | 18.9 | 23.9 |
| 466.3-481.6 | 2.30 | 0.04 | 2.17 | 19.0 | 24.2 |
| 481.6-496.8 | 4.39 | 0.04 | 4.05 | 10.2 | 24.6 |
| 496.8-512.1 | 4.38 | 0.02 | 4.21 | 9.8 | 24.9 |
| 512.1-527.3 | 3.57 | 0.02 | 3.44 | 12.0 | 25.2 |
| 527.3-542.5 | 2.68 | 0.01 | 2.64 | 15.6 | 25.5 |
| 542.5-557.8 | 2.34 | 0.02 | 2.28 | 18.1 | 25.9 |
| 557.8-573.0 | 2.10 | 0.04 | 1.99 | 20.9 | 26.2 |
| 573.0-588.3 | 1.89 | 0.07 | 1.75 | 23.6 | 26.5 |
| 588.3-600.5 | 1.83 | 0.06 | 1.71 | 24.2 | 26.8 |
| 600.5-618.7 | 2.40 | 0.05 | 2.24 | 18.4 | 27.1 |
| 618.7-634.0 | 2.21 | 0.09 | 1.87 | 21.0 | 27.5 |
| 634.0-649.2 | 1.96 | 0.05 | 1.85 | 22.3 | 27.8 |
| 649.2-661.4 | 2.12 | 0.05 | 1.99 | 20.8 | 28.2 |
| 661.4-667.5 | 2.35 | 0.14 | 1.94 | 21.3 | 26.4 |

Table A-3.

Conductivity and gradient data and heat flow calculations for well #13571 (Winspear #1).

| Depth Interval # Samples (meters) | Porosity | K (W/M C) | Gradient (C/KM) | Heat Flow (MW/M ²) | Lithology |
|--------------------------------------|----------|-----------|--------------------|-----------------------------------|---------------------------------------|
| 86-130.6 | 0.08 | 1.84 | 24.9 | 45.7 | Hamilton Group: Shale, Thin Limestone |
| 130.6-232.5 | 0.07 | 1.49 | 31.2 | 46.4 | Hamilton Group: Shale, Thin Limestone |
| 232.5-296.2 | 0.03 | 2.70 | 15.3 | 41.3 | Onondaga Limestone |

Table A-4.

Conductivity and gradient data and heat flow calculations for well #15529 (Wells College #1).

| Depth Interval (Meters) | # Samples | Porosity | K (W/M C) | Gradient (C/KM) | Heat Flow (mW/M ²) | Lithology |
|----------------------------|-----------|----------|-----------|--------------------|-----------------------------------|---|
| 130.6-302.6 | 15 | 0.03 | 2.42 | 26.4 | 63.8 | Onondaga Limestone, Heiderberg Group: Limestone, Dolostone |

Table A-5.

Thermal conductivity model for western and central New York.

| LAYER # | STRATIGRAPHY: LITHOLOGY | CONDUCTIVITY (W/m C) |
|---------|---|-------------------------|
| 1 | Upper-Middle Devonian: Shale with limestone interbeds | 1.67 |
| 2 | Onondaga Limestone-Medina Group: Limestone with interbedded shale, some sandstone | 2.2 |
| 3 | Queenston Formation-Lorraine Group: Predominantly shales in the west, more sandstone in upper section to the east | Variable 1.64 - 2.65 |
| 4 | Trenton Group-Little Falls Formation: Interlayered limestone and shale near the top and dolostones toward the base | 2.95 |
| 5 | Theresa Formation-Potsdam Formation: Quartzose dolostones and dolostones near the top and sandstones at the base | 4.9 |
| 6 | Precambrian: Crystalline basement | 2.93 |

Table A-6.

NY Bottom hole temperatures (BHT) and average gradients.

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 3-0015 | 42.0780 | 77.7925 | 621.8 | 1468.2 | 40.6 | 5.9 | 23.6 | 10.6 | 30.8 |
| 3-0016 | 42.0787 | 77.8016 | 628.2 | 1504.2 | 46.7 | 5.9 | 27.1 | 10.8 | 34.3 |
| 3-0017 | 42.0917 | 77.7796 | 659.6 | 1504.5 | 38.9 | 5.6 | 22.2 | 10.8 | 29.4 |
| 3-0018 | 42.0818 | 77.7796 | 598.3 | 1435.9 | 43.3 | 6.2 | 25.9 | 10.4 | 33.1 |
| 3-0019 | 42.0902 | 77.8005 | 608.9 | 1435.3 | 44.4 | 6.1 | 26.7 | 10.4 | 33.9 |
| 3- 412 | 42.0802 | 77.8041 | 599.8 | 1430.7 | 43.9 | 6.2 | 26.4 | 10.3 | 33.6 |
| 3- 7948 | 42.0680 | 77.7550 | 683.7 | 573.6 | 21.1 | 5.3 | 27.5 | 4.0 | 34.5 |
| 3- 8034 | 42.1320 | 77.8713 | 665.4 | 1508.8 | 51.7 | 5.5 | 30.6 | 10.9 | 37.8 |
| 3- 9194 | 42.4332 | 77.9652 | 591.0 | 1040.0 | 35.0 | 5.9 | 27.9 | 7.6 | 35.2 |
| 3-9330 | 42.1197 | 77.8470 | 673.6 | 1509.4 | 40.6 | 5.4 | 23.3 | 10.9 | 30.5 |
| 3- 9356 | 42.0422 | 77.8681 | 676.0 | 1503.3 | 42.8 | 5.4 | 24.8 | 10.8 | 32.0 |
| 3-11762 | 42.1599 | 78.0128 | 615.1 | 1361.8 | 36.1 | 6.0 | 22.1 | 9.9 | 29.4 |
| 3-11978 | 42.3123 | 78.2814 | 652.6 | 1218.3 | 36.1 | 5.6 | 25.1 | 8.9 | 32.4 |
| 3-12927 | 42.1368 | 77.9594 | 467.9 | 549.6 | 21.1 | 7.4 | 24.9 | 3.8 | 31.9 |
| 3-13242 | 42.3166 | 78.1554 | 501.7 | 983.9 | 30.0 | 7.0 | 23.4 | 7.2 | 30.7 |
| 3-13549 | 42.3658 | 77.8200 | 564.8 | 894.3 | 26.7 | 6.2 | 22.8 | 6.5 | 30.1 |
| 3-13684 | 42.4410 | 78.0156 | 559.6 | 959.8 | 33.9 | 6.2 | 28.8 | 7.0 | 36.1 |
| 3-14253 | 42.4301 | 78.1501 | 379.2 | 688.8 | 26.1 | 8.1 | 26.2 | 4.9 | 33.4 |
| 3-14485 | 42.0867 | 77.7983 | 660.5 | 1501.4 | 52.2 | 5.6 | 31.1 | 10.8 | 38.3 |
| 3-14571 | 42.0858 | 77.8175 | 616.0 | 1459.4 | 43.9 | 6.0 | 26.0 | 10.5 | 33.2 |
| 3-14610 | 42.0894 | 77.7938 | 614.5 | 1518.5 | 43.9 | 6.0 | 25.0 | 10.9 | 32.1 |
| 3-14665 | 42.0789 | 77.8106 | 600.2 | 1435.6 | 38.9 | 6.2 | 22.8 | 10.4 | 30.0 |
| 3-14817 | 42.0768 | 77.7733 | 676.7 | 538.3 | 18.9 | 5.4 | 25.1 | 3.8 | 32.0 |
| 3-15054 | 42.0641 | 77.8431 | 641.3 | 1507.2 | 39.4 | 5.8 | 22.3 | 10.9 | 29.5 |
| 3-15369 | 42.0449 | 77.8601 | 702.0 | 1552.3 | 40.0 | 5.2 | 22.4 | 11.2 | 29.6 |
| 3-15400 | 42.1089 | 77.7765 | 710.2 | 1535.6 | 44.4 | 5.0 | 25.7 | 11.0 | 32.8 |
| 3-15738 | 42.2633 | 78.2245 | 471.5 | 1069.8 | 32.2 | 7.4 | 23.2 | 7.8 | 30.5 |
| 3-15942 | 42.0268 | 77.9014 | 497.7 | 1351.2 | 41.1 | 7.2 | 25.1 | 9.8 | 32.3 |
| 3-16202 | 42.4276 | 78.1692 | 419.7 | 751.3 | 22.8 | 7.7 | 20.1 | 5.4 | 27.3 |
| 3-16203 | 42.2570 | 77.7839 | 594.4 | 1213.1 | 39.4 | 6.1 | 27.5 | 8.8 | 34.8 |
| 3-16227 | 42.2417 | 78.0403 | 420.3 | 1019.3 | 29.4 | 7.8 | 21.2 | 7.4 | 28.5 |
| 3-16239 | 42.2122 | 77.8882 | 594.1 | 1270.4 | 36.7 | 6.1 | 24.0 | 9.2 | 31.3 |
| 7- 5087 | 42.3235 | 75.9480 | 307.2 | 2934.0 | 55.6 | 8.5 | 16.0 | 17.8 | 22.1 |
| 7- 6636 | 42.4061 | 75.8782 | 442.9 | 1750.8 | 40.0 | 7.1 | 18.8 | 12.4 | 25.9 |
| 7- 8342 | 42.3977 | 75.8906 | 448.7 | 1832.2 | 40.6 | 7.0 | 18.3 | 12.9 | 25.3 |
| 7-12805 | 42.0696 | 75.5966 | 573.0 | 1349.0 | 38.3 | 6.0 | 23.9 | 9.8 | 31.2 |
| 9- 4820 | 42.0036 | 78.4348 | 657.8 | 1454.8 | 51.7 | 5.8 | 31.5 | 10.5 | 38.7 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 9-6743 | 42.0969 | 78.6331 | 424.6 | 457.2 | 23.9 | 8.1 | 34.6 | 3.1 | 41.4 |
| 9-6762 | 42.0453 | 78.5861 | 540.4 | 290.2 | 20.0 | 7.0 | 44.9 | 1.8 | 51.0 |
| 9-7184 | 42.0429 | 78.5913 | 628.5 | 381.0 | 22.8 | 6.1 | 43.7 | 2.5 | 50.3 |
| 9-8633 | 42.0528 | 78.6009 | 573.9 | 306.3 | 19.4 | 6.6 | 41.8 | 1.9 | 48.0 |
| 9-9120 | 42.0531 | 78.7487 | 686.1 | 1329.2 | 39.4 | 5.6 | 25.5 | 9.7 | 32.7 |
| 9-9151 | 42.0704 | 78.7345 | 682.4 | 1316.1 | 36.1 | 5.6 | 23.2 | 9.6 | 30.4 |
| 9-9829 | 42.0249 | 78.4218 | 558.1 | 457.5 | 18.3 | 6.8 | 25.3 | 3.1 | 32.1 |
| 9-10577 | 42.4113 | 78.8731 | 448.1 | 1045.8 | 25.6 | 7.6 | 17.2 | 7.6 | 24.5 |
| 9-10855 | 42.0210 | 78.6007 | 559.9 | 1272.2 | 28.3 | 6.8 | 16.9 | 9.3 | 24.2 |
| 9-10962 | 42.4160 | 78.8353 | 429.8 | 1039.4 | 33.3 | 7.8 | 24.6 | 7.6 | 31.9 |
| 9-11066 | 42.4032 | 78.8921 | 393.2 | 1001.0 | 32.2 | 8.2 | 24.0 | 7.3 | 31.3 |
| 9-11067 | 42.4283 | 78.8508 | 454.2 | 1055.2 | 35.0 | 7.5 | 26.0 | 7.7 | 33.3 |
| 9-11147 | 42.4056 | 78.8784 | 438.3 | 1051.0 | 32.2 | 7.7 | 23.3 | 7.7 | 30.6 |
| 9-11148 | 42.3985 | 78.8731 | 438.3 | 1050.6 | 32.8 | 7.7 | 23.9 | 7.7 | 31.2 |
| 9-11478 | 42.4735 | 78.4281 | 534.9 | 1230.8 | 35.6 | 6.5 | 23.6 | 9.0 | 30.9 |
| 9-11480 | 42.2038 | 78.8767 | 559.0 | 1409.7 | 42.2 | 6.7 | 25.2 | 10.2 | 32.4 |
| 9-11706 | 42.4500 | 78.7950 | 341.4 | 872.0 | 27.8 | 8.6 | 22.0 | 6.3 | 29.3 |
| 9-11723 | 42.4690 | 78.6804 | 420.6 | 1001.6 | 32.8 | 7.7 | 25.0 | 7.3 | 32.3 |
| 9-11748 | 41.9458 | 78.4045 | 478.5 | 195.1 | 16.1 | 7.6 | 43.7 | 1.0 | 48.9 |
| 9-11977 | 42.2114 | 78.7330 | 434.3 | 920.8 | 32.2 | 7.9 | 26.4 | 6.7 | 33.7 |
| 9-12461 | 42.4444 | 78.8186 | 350.5 | 971.1 | 31.7 | 8.5 | 23.9 | 7.1 | 31.1 |
| 9-12480 | 42.4507 | 78.8084 | 292.6 | 871.4 | 30.0 | 9.1 | 24.0 | 6.3 | 31.3 |
| 9-12505 | 42.4511 | 78.8168 | 292.6 | 864.1 | 30.0 | 9.1 | 24.2 | 6.3 | 31.5 |
| 9-13537 | 42.3307 | 78.7914 | 529.1 | 1247.5 | 41.1 | 6.9 | 27.4 | 9.1 | 34.7 |
| 9-15765 | 42.0315 | 78.5876 | 567.2 | 1237.2 | 36.1 | 6.7 | 23.8 | 9.0 | 31.0 |
| 9-16214 | 42.0759 | 78.4853 | 437.4 | 1121.7 | 44.4 | 7.9 | 32.6 | 8.2 | 39.9 |
| 9-16232 | 42.0343 | 78.3303 | 533.4 | 1291.1 | 46.1 | 7.0 | 30.3 | 9.4 | 37.6 |
| 9-16242 | 42.0634 | 78.4421 | 443.5 | 333.1 | 20.0 | 7.9 | 36.4 | 2.1 | 42.8 |
| 9-16245 | 42.0710 | 78.4456 | 438.9 | 323.7 | 21.1 | 7.9 | 40.8 | 2.0 | 47.1 |
| 11-4241 | 42.9188 | 76.6418 | 189.6 | 561.1 | 30.0 | 8.9 | 37.7 | 3.9 | 44.7 |
| 11-0001 | 42.9448 | 76.5447 | 219.8 | 1588.0 | 52.2 | 8.5 | 27.5 | 11.4 | 34.7 |
| 11-4380 | 42.9025 | 76.6020 | 156.1 | 533.1 | 32.2 | 9.2 | 43.1 | 3.7 | 50.1 |
| 11-4448 | 42.9019 | 76.6785 | 149.7 | 538.0 | 33.9 | 9.3 | 45.7 | 3.8 | 52.7 |
| 11-4493 | 42.9222 | 76.6618 | 156.7 | 530.0 | 27.2 | 9.2 | 34.0 | 3.7 | 41.0 |
| 11-4497 | 42.9352 | 76.6397 | 168.2 | 536.8 | 27.2 | 9.0 | 33.9 | 3.7 | 40.8 |
| 11-4511 | 42.9235 | 76.6296 | 191.1 | 585.8 | 32.2 | 8.8 | 39.9 | 4.1 | 47.0 |
| 11-4652 | 42.9468 | 76.7028 | 154.8 | 557.2 | 31.1 | 9.2 | 39.4 | 3.9 | 46.4 |
| 11-4715 | 42.9204 | 76.6721 | 157.3 | 1450.2 | 50.0 | 9.2 | 28.1 | 10.5 | 35.4 |
| 11-5000 | 43.1051 | 76.5528 | 132.6 | 1143.6 | 32.2 | 9.0 | 20.3 | 8.3 | 27.6 |
| 11-5011 | 43.1465 | 76.5534 | 123.1 | 1090.0 | 26.7 | 9.0 | 16.2 | 8.0 | 23.5 |
| 11-6780 | 43.1091 | 76.5469 | 140.2 | 944.3 | 23.9 | 8.9 | 15.8 | 6.9 | 23.1 |
| 11-10701 | 42.8763 | 76.7060 | 128.3 | 550.8 | 23.9 | 9.6 | 26.0 | 3.9 | 33.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 11-10702 | 42.8766 | 76.6929 | 141.4 | 553.5 | 27.8 | 9.4 | 33.2 | 3.9 | 40.2 |
| 11-15502 | 42.9203 | 76.6908 | 161.5 | 611.4 | 23.3 | 9.1 | 23.2 | 4.3 | 30.3 |
| 11-15703 | 42.9156 | 76.7058 | 158.2 | 610.8 | 22.8 | 9.2 | 22.3 | 4.3 | 29.3 |
| 11-15962 | 42.8604 | 76.6680 | 174.3 | 609.0 | 32.8 | 9.1 | 38.8 | 4.3 | 45.9 |
| 11-16149 | 42.9057 | 76.6689 | 152.4 | 527.0 | 32.8 | 9.3 | 44.6 | 3.7 | 51.6 |
| 13-1142 | 42.4860 | 79.3255 | 185.9 | 605.9 | 26.1 | 10.2 | 26.2 | 4.3 | 33.3 |
| 13-2655 | 42.4311 | 79.0874 | 421.8 | 937.9 | 30.0 | 7.9 | 23.6 | 6.8 | 30.8 |
| 13-3200 | 42.0682 | 79.4156 | 479.1 | 2042.2 | 48.9 | 7.8 | 20.1 | 14.1 | 27.0 |
| 13-3313 | 42.4619 | 79.3739 | 488.3 | 1780.5 | 42.8 | 7.3 | 20.2 | 12.5 | 27.2 |
| 13-4152 | 42.1639 | 79.7370 | 453.8 | 1086.6 | 42.2 | 8.1 | 31.4 | 7.9 | 38.7 |
| 13-4161 | 42.2922 | 79.4927 | 415.4 | 988.2 | 32.8 | 8.3 | 24.8 | 7.2 | 32.1 |
| 13-4178 | 42.2887 | 79.4677 | 417.6 | 1004.3 | 35.0 | 8.2 | 26.7 | 7.3 | 33.9 |
| 13-4204 | 42.1609 | 79.6741 | 453.2 | 1105.2 | 32.8 | 8.1 | 22.3 | 8.1 | 29.6 |
| 13-4347 | 42.1601 | 79.6789 | 455.4 | 1103.4 | 30.0 | 8.1 | 19.9 | 8.1 | 27.2 |
| 13-4437 | 42.1843 | 79.3381 | 540.4 | 2339.6 | 66.7 | 7.1 | 25.5 | 15.6 | 32.1 |
| 13-4561 | 42.2400 | 79.4146 | 468.5 | 1127.8 | 35.6 | 7.8 | 24.6 | 8.2 | 31.9 |
| 13-4581 | 42.2393 | 79.4080 | 484.6 | 1121.7 | 31.7 | 7.6 | 21.4 | 8.2 | 28.7 |
| 13-4671 | 42.2398 | 79.4202 | 473.4 | 1101.9 | 38.3 | 7.7 | 27.8 | 8.0 | 35.1 |
| 13-4986 | 42.4106 | 79.4095 | 214.3 | 678.8 | 27.8 | 10.1 | 26.1 | 4.9 | 33.3 |
| 13-5129 | 42.4271 | 79.4059 | 194.8 | 646.8 | 26.7 | 10.2 | 25.4 | 4.6 | 32.5 |
| 13-6745 | 42.3785 | 79.1880 | 433.4 | 981.5 | 31.7 | 7.9 | 24.2 | 7.2 | 31.5 |
| 13-7649 | 42.4071 | 79.1686 | 492.3 | 1005.5 | 32.8 | 7.3 | 25.4 | 7.3 | 32.7 |
| 13-8756 | 42.4131 | 79.1847 | 433.4 | 954.0 | 33.3 | 7.8 | 26.7 | 7.0 | 34.0 |
| 13-8757 | 42.4271 | 79.1949 | 381.0 | 883.0 | 32.8 | 8.3 | 27.7 | 6.4 | 34.9 |
| 13-9616 | 42.3687 | 79.3400 | 448.1 | 988.8 | 33.9 | 7.8 | 26.4 | 7.2 | 33.7 |
| 13-9617 | 42.1694 | 79.6767 | 455.1 | 1090.9 | 33.3 | 8.1 | 23.2 | 8.0 | 30.5 |
| 13-9619 | 42.3767 | 79.4553 | 241.4 | 723.6 | 29.4 | 9.9 | 27.1 | 5.2 | 34.3 |
| 13-9620 | 42.2845 | 79.5235 | 427.3 | 998.2 | 32.2 | 8.2 | 24.1 | 7.3 | 31.4 |
| 13-9867 | 42.2782 | 79.5312 | 458.4 | 1014.7 | 31.1 | 7.9 | 22.9 | 7.4 | 30.2 |
| 13-9868 | 42.2408 | 79.6654 | 479.1 | 1003.7 | 31.7 | 7.8 | 23.8 | 7.3 | 31.1 |
| 13-9870 | 42.3755 | 79.3176 | 356.6 | 910.1 | 30.0 | 8.7 | 23.4 | 6.6 | 30.7 |
| 13-9871 | 42.2475 | 79.6654 | 444.7 | 1055.5 | 35.6 | 8.1 | 26.0 | 7.7 | 33.3 |
| 13-9889 | 42.4158 | 79.3787 | 228.6 | 1523.7 | 40.0 | 9.9 | 19.8 | 11.0 | 26.9 |
| 13-9940 | 42.4065 | 79.4023 | 229.2 | 719.9 | 26.7 | 9.9 | 23.3 | 5.2 | 30.4 |
| 13-9941 | 42.4121 | 79.3872 | 228.6 | 719.6 | 29.4 | 9.9 | 27.1 | 5.2 | 34.3 |
| 13-9960 | 42.2408 | 79.6654 | 464.8 | 1067.7 | 32.2 | 7.9 | 22.8 | 7.8 | 30.1 |
| 13-9961 | 42.3758 | 79.4460 | 247.2 | 793.0 | 32.2 | 9.8 | 30.6 | 5.3 | 37.8 |
| 13-9962 | 42.3687 | 79.4566 | 259.7 | 766.0 | 29.4 | 9.7 | 25.8 | 5.5 | 33.0 |
| 13-9963 | 42.1783 | 79.6655 | 448.4 | 1116.5 | 37.8 | 8.1 | 26.6 | 8.1 | 33.9 |
| 13-9964 | 42.1661 | 79.6922 | 464.8 | 1100.9 | 33.3 | 8.0 | 23.0 | 8.0 | 30.3 |
| 13-10025 | 42.3635 | 79.4736 | 271.3 | 779.4 | 32.2 | 9.6 | 29.0 | 5.6 | 36.3 |
| 13-10028 | 42.2598 | 79.6681 | 391.7 | 970.8 | 32.2 | 8.6 | 24.3 | 7.1 | 31.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-10032 | 42.3723 | 79.4644 | 243.8 | 761.1 | 30.0 | 9.8 | 26.5 | 5.5 | 33.7 |
| 13-10033 | 42.3793 | 79.2979 | 371.9 | 923.2 | 33.3 | 8.5 | 26.9 | 6.7 | 34.2 |
| 13-10065 | 42.2464 | 79.6591 | 454.8 | 1062.5 | 31.1 | 8.0 | 21.8 | 7.8 | 29.1 |
| 13-10066 | 42.1710 | 79.6696 | 449.0 | 1118.3 | 36.7 | 8.1 | 25.5 | 8.2 | 32.8 |
| 13-10069 | 42.3780 | 79.3262 | 406.0 | 952.5 | 33.9 | 8.2 | 27.0 | 6.9 | 34.3 |
| 13-10084 | 42.3763 | 79.4750 | 236.2 | 730.0 | 26.7 | 9.9 | 23.0 | 5.2 | 30.1 |
| 13-10086 | 42.2350 | 79.6685 | 477.0 | 1108.3 | 32.8 | 7.8 | 22.6 | 8.1 | 29.9 |
| 13-10087 | 42.2302 | 79.6614 | 490.7 | 1097.6 | 34.4 | 7.6 | 24.4 | 8.0 | 31.7 |
| 13-10089 | 42.1546 | 79.6793 | 482.2 | 1148.2 | 32.2 | 7.8 | 21.3 | 8.4 | 28.6 |
| 13-10090 | 42.1617 | 79.6961 | 469.4 | 1120.7 | 35.6 | 7.9 | 24.6 | 8.2 | 31.9 |
| 13-10091 | 42.3720 | 79.3519 | 459.6 | 1007.1 | 36.7 | 7.7 | 28.8 | 7.3 | 36.1 |
| 13-10093 | 42.4247 | 79.4139 | 197.8 | 661.1 | 26.7 | 10.2 | 24.9 | 4.7 | 32.0 |
| 13-10109 | 42.3557 | 79.4545 | 331.3 | 875.4 | 29.4 | 9.0 | 23.4 | 6.4 | 30.6 |
| 13-10110 | 42.1747 | 79.6781 | 460.9 | 1112.8 | 39.4 | 8.0 | 28.3 | 8.1 | 35.6 |
| 13-10111 | 42.3655 | 79.3682 | 455.1 | 1008.6 | 32.2 | 7.7 | 24.3 | 7.4 | 31.6 |
| 13-10145 | 42.3649 | 79.4357 | 323.7 | 878.7 | 29.4 | 9.1 | 23.2 | 6.4 | 30.5 |
| 13-10146 | 42.3879 | 79.4628 | 285.9 | 805.0 | 28.3 | 9.4 | 23.5 | 5.8 | 30.8 |
| 13-10173 | 42.3533 | 79.3482 | 483.1 | 1035.4 | 36.1 | 7.5 | 27.7 | 7.6 | 35.0 |
| 13-10175 | 42.2434 | 79.6783 | 417.6 | 1030.5 | 37.8 | 8.4 | 28.6 | 7.5 | 35.8 |
| 13-10176 | 42.2508 | 79.6495 | 460.2 | 1040.0 | 38.3 | 7.9 | 29.2 | 7.6 | 36.5 |
| 13-10177 | 42.2878 | 79.4229 | 469.1 | 1102.5 | 34.4 | 7.7 | 24.2 | 8.0 | 31.5 |
| 13-10250 | 42.1599 | 79.6696 | 457.2 | 1125.6 | 34.4 | 8.0 | 23.5 | 8.2 | 30.7 |
| 13-10251 | 42.1823 | 79.6594 | 470.3 | 1138.4 | 35.0 | 7.9 | 23.8 | 8.3 | 31.1 |
| 13-10252 | 42.1746 | 79.6580 | 447.1 | 1113.4 | 36.7 | 8.1 | 25.6 | 8.1 | 32.9 |
| 13-10253 | 42.3547 | 79.3632 | 360.6 | 905.0 | 32.2 | 8.7 | 26.0 | 6.6 | 33.3 |
| 13-10254 | 42.3499 | 79.3554 | 477.9 | 1030.2 | 36.7 | 7.5 | 28.3 | 7.5 | 35.6 |
| 13-10258 | 42.2404 | 79.6939 | 391.7 | 984.2 | 36.7 | 8.6 | 28.5 | 7.2 | 35.8 |
| 13-10278 | 42.1727 | 79.6989 | 463.6 | 1126.2 | 38.9 | 8.0 | 27.4 | 8.2 | 34.7 |
| 13-10285 | 42.3690 | 79.4791 | 243.8 | 766.9 | 31.7 | 9.8 | 28.5 | 5.5 | 35.7 |
| 13-10286 | 42.3566 | 79.4849 | 264.9 | 781.8 | 28.9 | 9.7 | 24.6 | 5.6 | 31.8 |
| 13-10287 | 42.3504 | 79.4883 | 287.1 | 815.6 | 27.8 | 9.4 | 22.5 | 5.9 | 29.7 |
| 13-10288 | 42.3518 | 79.4650 | 337.4 | 852.8 | 26.7 | 8.9 | 20.8 | 6.2 | 28.0 |
| 13-10289 | 42.3667 | 79.4840 | 234.7 | 762.0 | 29.4 | 9.9 | 25.6 | 5.5 | 32.8 |
| 13-10290 | 42.3622 | 79.4801 | 251.5 | 766.9 | 31.7 | 9.8 | 28.5 | 5.5 | 35.8 |
| 13-10292 | 42.2457 | 79.6718 | 427.9 | 1040.3 | 32.2 | 8.2 | 23.0 | 7.6 | 30.3 |
| 13-10293 | 42.2480 | 79.6780 | 402.6 | 1003.4 | 26.7 | 8.5 | 18.1 | 7.3 | 25.4 |
| 13-10298 | 42.3502 | 79.3682 | 472.4 | 1022.6 | 36.7 | 7.6 | 28.4 | 7.5 | 35.7 |
| 13-10299 | 42.3605 | 79.3320 | 414.2 | 961.9 | 31.7 | 8.1 | 24.5 | 7.0 | 31.7 |
| 13-10316 | 42.2289 | 79.6731 | 475.5 | 1080.8 | 37.8 | 7.8 | 27.7 | 7.9 | 35.0 |
| 13-10332 | 42.1781 | 79.7044 | 466.3 | 1128.7 | 34.4 | 8.0 | 23.5 | 8.2 | 30.8 |
| 13-10345 | 42.2455 | 79.6920 | 373.4 | 985.7 | 34.4 | 8.8 | 26.0 | 7.2 | 33.3 |
| 13-10370 | 42.1847 | 79.7062 | 450.5 | 1085.1 | 32.2 | 8.1 | 22.2 | 7.9 | 29.5 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-10375 | 42.4235 | 79.3762 | 229.5 | 686.7 | 30.6 | 9.9 | 30.1 | 4.9 | 37.3 |
| 13-10382 | 42.1596 | 79.6576 | 450.5 | 1127.8 | 35.0 | 8.1 | 23.8 | 8.2 | 31.1 |
| 13-10389 | 42.1546 | 79.6793 | 485.2 | 1147.6 | 32.2 | 7.8 | 21.3 | 8.4 | 28.6 |
| 13-10407 | 42.2333 | 79.6856 | 424.3 | 1030.2 | 33.9 | 8.3 | 24.8 | 7.5 | 32.1 |
| 13-10417 | 42.4233 | 79.3151 | 269.7 | 728.2 | 26.7 | 9.5 | 23.6 | 5.2 | 30.8 |
| 13-10448 | 42.4542 | 79.3532 | 202.4 | 698.6 | 29.4 | 10.1 | 27.7 | 5.0 | 34.9 |
| 13-10455 | 42.4134 | 79.3410 | 290.8 | 770.2 | 29.4 | 9.3 | 26.2 | 5.6 | 33.4 |
| 13-10456 | 42.3624 | 79.3756 | 469.4 | 1019.6 | 29.4 | 7.6 | 21.4 | 7.4 | 28.7 |
| 13-10457 | 42.2284 | 79.6865 | 443.2 | 1059.5 | 29.4 | 8.1 | 20.1 | 7.7 | 27.4 |
| 13-10458 | 42.2371 | 79.6989 | 392.3 | 976.9 | 32.8 | 8.6 | 24.7 | 7.1 | 32.0 |
| 13-10460 | 42.3624 | 79.3756 | 468.8 | 1016.8 | 34.4 | 7.6 | 26.4 | 7.4 | 33.7 |
| 13-10461 | 42.3572 | 79.3803 | 475.8 | 1038.1 | 35.0 | 7.6 | 26.4 | 7.6 | 33.7 |
| 13-10470 | 42.2648 | 79.5165 | 489.2 | 1060.4 | 32.2 | 7.6 | 23.2 | 7.7 | 30.5 |
| 13-10477 | 42.4115 | 79.4427 | 203.0 | 674.8 | 26.7 | 10.2 | 24.4 | 4.8 | 31.6 |
| 13-10485 | 42.2234 | 79.6583 | 499.9 | 1115.9 | 32.2 | 7.6 | 22.1 | 8.1 | 29.4 |
| 13-10486 | 42.2295 | 79.6492 | 512.1 | 1131.7 | 36.7 | 7.4 | 25.8 | 8.3 | 33.1 |
| 13-10489 | 42.3437 | 79.4910 | 315.5 | 856.5 | 26.7 | 9.2 | 20.4 | 6.2 | 27.7 |
| 13-10528 | 42.4075 | 79.4566 | 207.6 | 684.6 | 29.4 | 10.1 | 28.2 | 4.9 | 35.3 |
| 13-10530 | 42.3616 | 79.4412 | 343.2 | 883.9 | 30.0 | 8.9 | 23.9 | 6.4 | 31.2 |
| 13-10531 | 42.3451 | 79.3731 | 413.0 | 973.8 | 29.4 | 8.2 | 21.8 | 7.1 | 29.1 |
| 13-10532 | 42.2250 | 79.6645 | 492.9 | 1107.6 | 35.6 | 7.6 | 25.2 | 8.1 | 32.5 |
| 13-10534 | 42.4860 | 79.3255 | 185.9 | 708.4 | 28.9 | 10.2 | 26.4 | 5.1 | 33.5 |
| 13-10535 | 42.3818 | 79.4737 | 225.9 | 714.1 | 29.4 | 10.0 | 27.2 | 5.1 | 34.4 |
| 13-10550 | 42.2286 | 79.6517 | 496.2 | 1116.5 | 30.0 | 7.6 | 20.1 | 8.1 | 27.4 |
| 13-10554 | 42.3363 | 79.3733 | 405.4 | 962.6 | 28.3 | 8.3 | 20.8 | 7.0 | 28.1 |
| 13-10564 | 42.3895 | 79.4749 | 204.5 | 697.7 | 26.7 | 10.2 | 23.6 | 5.0 | 30.8 |
| 13-10566 | 42.2876 | 79.5339 | 434.0 | 1012.2 | 28.9 | 8.1 | 20.5 | 7.4 | 27.8 |
| 13-10578 | 42.4018 | 79.4445 | 204.5 | 686.1 | 25.6 | 10.2 | 22.4 | 4.9 | 29.6 |
| 13-10579 | 42.3470 | 79.4743 | 342.3 | 878.7 | 32.8 | 8.9 | 27.2 | 6.4 | 34.4 |
| 13-10580 | 42.3324 | 79.5154 | 402.3 | 968.3 | 26.7 | 8.3 | 18.9 | 7.1 | 26.2 |
| 13-10584 | 42.3667 | 79.4918 | 237.1 | 753.5 | 25.6 | 9.9 | 20.8 | 5.4 | 28.0 |
| 13-10585 | 42.3585 | 79.4323 | 340.5 | 882.4 | 30.0 | 8.9 | 23.9 | 6.4 | 31.2 |
| 13-10596 | 42.3380 | 79.3800 | 405.7 | 964.7 | 29.4 | 8.3 | 22.0 | 7.0 | 29.2 |
| 13-10597 | 42.2159 | 79.6577 | 504.1 | 1150.3 | 36.1 | 7.5 | 24.8 | 8.4 | 32.1 |
| 13-10601 | 42.3876 | 79.4382 | 235.0 | 801.6 | 29.4 | 9.9 | 24.4 | 5.8 | 31.6 |
| 13-10605 | 42.3412 | 79.4439 | 420.9 | 981.5 | 30.0 | 8.1 | 22.3 | 7.2 | 29.6 |
| 13-10655 | 42.2104 | 79.6575 | 504.4 | 1200.9 | 37.8 | 7.5 | 25.2 | 8.8 | 32.5 |
| 13-10656 | 42.3895 | 79.4494 | 221.3 | 712.0 | 27.8 | 10.0 | 24.9 | 5.1 | 32.1 |
| 13-10658 | 42.3832 | 79.4427 | 241.1 | 730.0 | 28.3 | 9.8 | 25.3 | 5.2 | 32.5 |
| 13-10700 | 42.3552 | 79.4945 | 251.2 | 770.2 | 28.9 | 9.8 | 24.8 | 5.6 | 32.0 |
| 13-10705 | 42.1899 | 79.6604 | 475.5 | 1108.6 | 35.6 | 7.8 | 25.0 | 8.1 | 32.3 |
| 13-10706 | 42.1932 | 79.6550 | 477.9 | 1119.2 | 33.9 | 7.8 | 23.3 | 8.2 | 30.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-10757 | 42.2705 | 79.5480 | 423.1 | 1028.7 | 35.6 | 8.2 | 26.6 | 7.5 | 33.9 |
| 13-10771 | 42.1655 | 79.6659 | 440.4 | 1116.8 | 36.1 | 8.2 | 25.0 | 8.1 | 32.3 |
| 13-10872 | 42.0539 | 79.4637 | 476.4 | 1312.5 | 38.9 | 7.9 | 23.6 | 9.5 | 30.9 |
| 13-10873 | 42.0659 | 79.0771 | 443.8 | 1398.7 | 37.8 | 8.1 | 21.2 | 10.1 | 28.5 |
| 13-10875 | 42.1503 | 79.6860 | 489.8 | 1153.7 | 36.7 | 7.7 | 25.1 | 8.4 | 32.4 |
| 13-10877 | 42.2953 | 79.4667 | 445.9 | 1004.3 | 33.3 | 7.9 | 25.3 | 7.3 | 32.6 |
| 13-10878 | 42.3358 | 79.4532 | 463.0 | 1034.5 | 34.4 | 7.7 | 25.8 | 7.5 | 33.1 |
| 13-10883 | 42.3665 | 79.2975 | 423.1 | 993.0 | 37.2 | 8.0 | 29.4 | 7.2 | 36.7 |
| 13-10884 | 42.3697 | 79.4417 | 279.2 | 808.6 | 28.9 | 9.5 | 24.0 | 5.9 | 31.2 |
| 13-10894 | 42.3366 | 79.3899 | 406.9 | 963.8 | 32.8 | 8.3 | 25.4 | 7.0 | 32.7 |
| 13-10895 | 42.3580 | 79.2991 | 417.6 | 996.4 | 30.0 | 8.1 | 22.0 | 7.3 | 29.3 |
| 13-10896 | 42.1530 | 79.6920 | 491.6 | 1151.8 | 36.7 | 7.7 | 25.1 | 8.4 | 32.4 |
| 13-10898 | 42.1707 | 79.6457 | 468.5 | 1137.2 | 38.3 | 7.9 | 26.7 | 8.3 | 34.0 |
| 13-10899 | 42.2178 | 79.6818 | 475.2 | 1112.5 | 35.6 | 7.8 | 24.9 | 8.1 | 32.2 |
| 13-10900 | 42.1516 | 79.6683 | 482.8 | 1166.5 | 36.7 | 7.8 | 24.7 | 8.5 | 32.0 |
| 13-10923 | 42.3439 | 79.4620 | 445.0 | 985.1 | 38.9 | 7.9 | 31.5 | 7.2 | 38.7 |
| 13-10931 | 42.2008 | 79.5665 | 491.9 | 1143.0 | 35.0 | 7.6 | 23.9 | 8.3 | 31.2 |
| 13-10937 | 42.3447 | 79.4007 | 407.8 | 980.5 | 37.2 | 8.2 | 25.6 | 7.1 | 32.9 |
| 13-10943 | 42.1685 | 79.6891 | 458.4 | 1083.3 | 37.2 | 8.0 | 26.9 | 7.9 | 34.2 |
| 13-10944 | 42.3346 | 79.3983 | 452.9 | 979.6 | 33.3 | 7.8 | 26.1 | 7.1 | 33.3 |
| 13-10945 | 42.3525 | 79.3309 | 410.3 | 969.3 | 30.0 | 8.2 | 22.5 | 7.1 | 29.8 |
| 13-10946 | 42.4278 | 79.3017 | 268.2 | 746.8 | 23.3 | 9.5 | 18.6 | 5.4 | 25.8 |
| 13-10948 | 42.1525 | 79.6572 | 457.8 | 1163.7 | 26.1 | 8.0 | 24.1 | 8.4 | 31.4 |
| 13-10949 | 42.2244 | 79.6955 | 420.0 | 1040.6 | 34.4 | 8.4 | 25.1 | 7.6 | 32.4 |
| 13-10955 | 42.2232 | 79.6839 | 462.4 | 1068.3 | 35.0 | 7.9 | 25.3 | 7.8 | 32.6 |
| 13-10957 | 42.3291 | 79.3926 | 418.8 | 995.2 | 38.9 | 8.2 | 30.9 | 7.3 | 38.2 |
| 13-10967 | 42.3486 | 79.4447 | 416.7 | 968.3 | 32.8 | 8.2 | 25.4 | 7.1 | 32.7 |
| 13-10968 | 42.3678 | 79.2907 | 425.2 | 984.5 | 34.4 | 8.0 | 26.9 | 7.2 | 34.1 |
| 13-10972 | 42.3557 | 79.2507 | 427.0 | 999.4 | 36.1 | 8.0 | 28.1 | 7.3 | 35.4 |
| 13-10973 | 42.1773 | 79.7103 | 442.3 | 1113.4 | 33.3 | 8.2 | 22.6 | 8.1 | 29.9 |
| 13-10993 | 42.3507 | 79.3780 | 420.9 | 975.4 | 29.4 | 8.1 | 21.9 | 7.1 | 29.2 |
| 13-10999 | 42.1881 | 79.6923 | 478.5 | 1106.7 | 40.0 | 7.8 | 29.1 | 8.1 | 36.4 |
| 13-11000 | 42.1919 | 79.6863 | 490.7 | 1135.4 | 36.7 | 7.7 | 25.5 | 8.3 | 32.8 |
| 13-11004 | 42.3422 | 79.4083 | 458.1 | 997.9 | 32.2 | 7.8 | 24.5 | 7.3 | 31.8 |
| 13-11005 | 42.3369 | 79.4051 | 417.9 | 1030.2 | 38.9 | 8.2 | 29.8 | 7.5 | 37.1 |
| 13-11021 | 42.3366 | 79.4454 | 455.7 | 1019.3 | 31.1 | 7.8 | 22.9 | 7.4 | 30.2 |
| 13-11022 | 42.3176 | 79.3813 | 404.5 | 1010.4 | 35.0 | 8.3 | 26.4 | 7.4 | 33.7 |
| 13-11023 | 42.1486 | 79.7101 | 463.6 | 1136.6 | 35.0 | 8.0 | 23.7 | 8.3 | 31.0 |
| 13-11030 | 42.1776 | 79.6919 | 471.8 | 1114.0 | 36.7 | 7.9 | 25.8 | 8.1 | 33.1 |
| 13-11031 | 42.3734 | 79.4933 | 220.7 | 725.1 | 27.2 | 10.1 | 23.7 | 5.2 | 30.8 |
| 13-11032 | 42.4097 | 79.2617 | 453.5 | 969.9 | 33.3 | 7.7 | 26.5 | 7.1 | 33.7 |
| 13-11033 | 42.3340 | 79.4833 | 426.7 | 981.5 | 30.6 | 8.1 | 22.9 | 7.2 | 30.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11036 | 42.4128 | 79.2725 | 397.5 | 892.8 | 30.0 | 8.2 | 24.4 | 6.5 | 31.7 |
| 13-11038 | 42.1024 | 79.1461 | 387.7 | 1264.9 | 38.9 | 8.6 | 23.9 | 9.2 | 31.2 |
| 13-11040 | 42.1921 | 79.6693 | ***** | 1081.7 | 32.2 | 1.9 | 28.0 | 7.9 | 35.3 |
| 13-11041 | 42.1941 | 79.6798 | 438.9 | 1073.5 | 35.0 | 8.2 | 25.0 | 7.8 | 32.3 |
| 13-11042 | 42.1588 | 79.6860 | 506.0 | 1139.6 | 35.0 | 7.6 | 24.1 | 8.3 | 31.4 |
| 13-11043 | 42.1874 | 79.6781 | 488.3 | 1121.1 | 34.4 | 7.7 | 23.8 | 8.2 | 31.1 |
| 13-11054 | 42.3610 | 79.2908 | 427.0 | 984.5 | 32.2 | 8.0 | 24.6 | 7.2 | 31.9 |
| 13-11059 | 42.3185 | 79.3682 | 402.0 | 1004.3 | 32.8 | 8.3 | 24.4 | 7.3 | 31.6 |
| 13-11063 | 42.2482 | 79.6357 | 487.4 | 1089.7 | 34.4 | 7.7 | 24.6 | 8.0 | 31.9 |
| 13-11069 | 42.3892 | 79.1916 | 424.6 | 607.2 | 21.1 | 8.0 | 21.7 | 4.3 | 28.7 |
| 13-11076 | 42.4161 | 79.3145 | 274.6 | 763.8 | 24.4 | 9.4 | 19.7 | 5.5 | 26.9 |
| 13-11079 | 42.1466 | 79.7028 | 463.9 | 1138.4 | 35.0 | 8.0 | 23.7 | 8.3 | 31.0 |
| 13-11094 | 42.3223 | 79.3991 | 409.0 | 993.6 | 31.1 | 8.3 | 23.0 | 7.2 | 30.3 |
| 13-11096 | 42.1909 | 79.7008 | 460.9 | 1107.0 | 31.7 | 8.0 | 21.4 | 8.1 | 28.7 |
| 13-11097 | 42.3255 | 79.4799 | 444.4 | 1000.0 | 31.1 | 7.9 | 23.2 | 7.3 | 30.5 |
| 13-11098 | 42.3284 | 79.4718 | 436.3 | 999.7 | 31.1 | 8.0 | 23.1 | 7.3 | 30.4 |
| 13-11110 | 42.1565 | 79.6989 | 452.0 | 1107.3 | 32.8 | 8.1 | 22.3 | 8.1 | 29.6 |
| 13-11111 | 42.3351 | 79.4156 | 416.7 | 992.4 | 32.2 | 8.2 | 24.2 | 7.2 | 31.5 |
| 13-11112 | 42.3430 | 79.3859 | 401.1 | 958.3 | 32.8 | 8.3 | 25.5 | 7.0 | 32.8 |
| 13-11117 | 42.1858 | 79.6676 | 448.1 | 1082.0 | 32.2 | 8.1 | 22.3 | 7.9 | 29.6 |
| 13-11118 | 42.3403 | 79.4218 | 422.5 | 990.0 | 32.8 | 8.1 | 24.9 | 7.2 | 32.2 |
| 13-11119 | 42.3402 | 79.3958 | 401.7 | 969.9 | 32.8 | 8.3 | 25.2 | 7.1 | 32.5 |
| 13-11120 | 42.3200 | 79.3492 | 472.1 | 1076.6 | 32.8 | 7.6 | 23.4 | 7.9 | 30.7 |
| 13-11121 | 42.4032 | 79.2937 | 332.5 | 853.4 | 25.6 | 8.9 | 19.5 | 6.2 | 26.8 |
| 13-11130 | 42.1716 | 79.7096 | 442.0 | 1091.2 | 32.2 | 8.2 | 22.0 | 8.0 | 29.3 |
| 13-11131 | 42.1713 | 79.7188 | 442.0 | 1090.6 | 32.8 | 8.2 | 22.5 | 8.0 | 29.8 |
| 13-11132 | 42.1647 | 79.7221 | 445.3 | 1095.8 | 32.8 | 8.2 | 22.5 | 8.0 | 29.7 |
| 13-11133 | 42.1906 | 79.7098 | 450.5 | 1078.7 | 32.2 | 8.1 | 22.4 | 7.9 | 29.7 |
| 13-11136 | 42.1964 | 79.6974 | 448.1 | 1077.8 | 32.2 | 8.1 | 22.4 | 7.9 | 29.7 |
| 13-11137 | 42.1971 | 79.7091 | 442.9 | 1077.8 | 33.9 | 8.2 | 23.9 | 7.9 | 31.2 |
| 13-11138 | 42.3259 | 79.3422 | 507.5 | 1150.0 | 31.7 | 7.3 | 21.2 | 8.4 | 28.5 |
| 13-11146 | 42.3225 | 79.3756 | 460.2 | 1029.3 | 32.2 | 7.7 | 23.8 | 7.5 | 31.1 |
| 13-11152 | 42.3395 | 79.4975 | 323.4 | 866.2 | 30.6 | 9.1 | 24.8 | 6.3 | 32.0 |
| 13-11153 | 42.3639 | 79.3113 | 408.1 | 962.3 | 29.4 | 8.2 | 22.1 | 7.0 | 29.4 |
| 13-11154 | 42.3250 | 79.3670 | 402.9 | 1208.5 | 31.7 | 8.3 | 19.3 | 8.8 | 26.6 |
| 13-11162 | 42.2176 | 79.6389 | 514.2 | 1134.2 | 36.1 | 7.4 | 25.3 | 8.3 | 32.6 |
| 13-11163 | 42.2229 | 79.6255 | 515.4 | 1132.9 | 33.3 | 7.4 | 22.9 | 8.3 | 30.2 |
| 13-11165 | 42.2533 | 79.6288 | 483.7 | 1083.0 | 32.2 | 7.7 | 22.7 | 7.9 | 30.0 |
| 13-11167 | 42.2512 | 79.6209 | 481.0 | 1089.7 | 35.0 | 7.7 | 25.0 | 8.0 | 32.3 |
| 13-11169 | 42.3283 | 79.3575 | 440.7 | 1026.3 | 36.7 | 7.9 | 28.0 | 7.5 | 35.3 |
| 13-11170 | 42.3626 | 79.4990 | 237.1 | 756.2 | 28.9 | 9.9 | 25.1 | 5.5 | 32.3 |
| 13-11178 | 42.4373 | 79.2985 | 265.2 | 731.5 | 24.4 | 9.5 | 20.4 | 5.3 | 27.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11179 | 42.2557 | 79.6389 | 461.5 | 1051.0 | 33.3 | 7.9 | 24.2 | 7.7 | 31.5 |
| 13-11180 | 42.2295 | 79.6360 | 494.4 | 1105.2 | 35.6 | 7.6 | 25.3 | 8.1 | 32.6 |
| 13-11181 | 42.3283 | 79.3780 | 423.4 | 997.6 | 33.9 | 8.1 | 25.8 | 7.3 | 33.1 |
| 13-11182 | 42.2561 | 79.6154 | 465.7 | 1079.6 | 35.0 | 7.8 | 25.2 | 7.9 | 32.4 |
| 13-11182 | 42.2036 | 79.6537 | 484.9 | 1122.3 | 36.1 | 7.7 | 25.3 | 8.2 | 32.6 |
| 13-11193 | 42.3585 | 79.5036 | 235.0 | 752.9 | 26.7 | 10.0 | 22.2 | 5.4 | 29.4 |
| 13-11197 | 42.2023 | 79.6696 | 474.9 | 1097.3 | 32.8 | 7.8 | 22.7 | 8.0 | 30.0 |
| 13-11199 | 42.2052 | 79.6273 | 486.2 | 1091.8 | 35.6 | 7.7 | 25.5 | 8.0 | 32.8 |
| 13-11200 | 42.2467 | 79.6167 | 481.6 | 1092.1 | 35.6 | 7.7 | 25.5 | 8.0 | 32.8 |
| 13-11205 | 42.3324 | 79.3448 | 513.6 | 1090.6 | 33.3 | 7.2 | 24.0 | 8.0 | 31.3 |
| 13-11207 | 42.3533 | 79.5081 | 241.1 | 772.7 | 28.3 | 9.9 | 23.9 | 5.6 | 31.1 |
| 13-11208 | 42.3500 | 79.5162 | 240.2 | 792.8 | 28.9 | 9.9 | 23.9 | 5.7 | 31.2 |
| 13-11210 | 42.1004 | 79.4640 | 481.9 | 1244.2 | 36.1 | 7.8 | 22.8 | 9.1 | 30.0 |
| 13-11211 | 42.1009 | 79.4551 | 470.6 | 1040.9 | 33.3 | 7.9 | 24.4 | 7.6 | 31.7 |
| 13-11212 | 42.0946 | 79.4635 | 471.8 | 1240.5 | 33.3 | 7.9 | 20.5 | 9.0 | 27.8 |
| 13-11254 | 42.2278 | 79.6272 | 486.2 | 1103.7 | 35.6 | 7.7 | 25.3 | 8.1 | 32.6 |
| 13-11255 | 42.2598 | 79.6322 | 473.0 | 1067.7 | 35.0 | 7.8 | 25.5 | 7.8 | 32.8 |
| 13-11256 | 42.2337 | 79.6241 | 487.7 | 1100.9 | 35.0 | 7.7 | 24.8 | 8.0 | 32.1 |
| 13-11257 | 42.2643 | 79.6568 | 411.5 | 985.4 | 31.7 | 8.4 | 23.6 | 7.2 | 30.9 |
| 13-11258 | 42.2689 | 79.6491 | 419.1 | 992.7 | 33.3 | 8.3 | 25.2 | 7.2 | 32.5 |
| 13-11262 | 42.3648 | 79.5061 | 218.2 | 798.2 | 29.4 | 10.1 | 26.2 | 5.3 | 33.4 |
| 13-11263 | 42.3589 | 79.5133 | 228.6 | 750.1 | 29.4 | 10.0 | 25.9 | 5.4 | 33.1 |
| 13-11267 | 42.3247 | 79.4507 | 487.7 | 1051.6 | 32.2 | 7.5 | 23.5 | 7.7 | 30.8 |
| 13-11268 | 42.3195 | 79.4073 | 445.0 | 1028.4 | 31.1 | 7.9 | 22.6 | 7.5 | 29.9 |
| 13-11269 | 42.2604 | 79.6904 | 299.3 | 1174.4 | 31.1 | 9.5 | 18.4 | 8.6 | 25.7 |
| 13-11273 | 42.3351 | 79.5033 | 431.9 | 895.8 | 30.6 | 8.1 | 25.1 | 6.5 | 32.4 |
| 13-11274 | 42.3371 | 79.5120 | 296.9 | 834.8 | 29.4 | 9.4 | 24.0 | 6.1 | 31.3 |
| 13-11275 | 42.3451 | 79.5037 | 273.1 | 810.5 | 30.6 | 9.6 | 25.9 | 5.9 | 33.1 |
| 13-11285 | 42.1070 | 79.4583 | 486.5 | 1259.1 | 37.8 | 7.7 | 23.9 | 9.2 | 31.1 |
| 13-11294 | 42.3207 | 79.4158 | 441.4 | 1020.2 | 31.7 | 7.9 | 23.3 | 7.4 | 30.5 |
| 13-11295 | 42.2628 | 79.6828 | 313.6 | 878.7 | 29.4 | 9.4 | 22.9 | 6.4 | 30.1 |
| 13-11296 | 42.3145 | 79.3985 | 445.0 | 1034.5 | 31.1 | 7.9 | 22.4 | 7.5 | 29.7 |
| 13-11297 | 42.3199 | 79.3892 | 408.4 | 989.1 | 30.0 | 8.3 | 22.0 | 7.2 | 29.3 |
| 13-11298 | 42.2668 | 79.6877 | 265.8 | 824.2 | 31.1 | 9.8 | 25.8 | 6.0 | 33.1 |
| 13-11304 | 42.3285 | 79.4442 | 469.4 | 1033.9 | 31.1 | 7.7 | 22.7 | 7.5 | 30.0 |
| 13-11305 | 42.3240 | 79.4363 | 452.0 | 1016.2 | 30.0 | 7.8 | 21.8 | 7.4 | 29.1 |
| 13-11314 | 42.2740 | 79.6241 | 445.9 | 1011.6 | 29.4 | 8.0 | 21.2 | 7.4 | 28.5 |
| 13-11315 | 42.3343 | 79.4924 | 379.5 | 980.9 | 28.3 | 8.6 | 21.2 | 6.8 | 28.5 |
| 13-11316 | 42.3248 | 79.4213 | 426.7 | 1026.3 | 35.0 | 8.1 | 26.2 | 7.5 | 33.5 |
| 13-11323 | 42.3329 | 79.3835 | 424.0 | 999.7 | 33.3 | 8.1 | 25.2 | 7.3 | 32.5 |
| 13-11337 | 42.3264 | 79.4892 | 439.5 | 1000.4 | 40.0 | 8.0 | 32.0 | 7.3 | 39.3 |
| 13-11339 | 42.3357 | 79.4296 | 420.0 | 982.7 | 31.7 | 8.1 | 23.9 | 7.2 | 31.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11340 | 42.3062 | 79.3562 | 396.5 | 1003.4 | 31.1 | 8.4 | 22.7 | 7.3 | 29.9 |
| 13-11341 | 42.2991 | 79.3542 | 395.6 | 1006.4 | 36.1 | 8.4 | 27.5 | 7.3 | 34.9 |
| 13-11342 | 42.3149 | 79.3544 | 407.8 | 1002.2 | 33.3 | 8.3 | 25.0 | 7.3 | 32.3 |
| 13-11349 | 42.3288 | 79.5062 | 356.6 | 910.1 | 31.7 | 8.8 | 25.1 | 6.6 | 32.4 |
| 13-11350 | 42.3241 | 79.5104 | 361.5 | 941.2 | 32.8 | 8.8 | 25.5 | 6.9 | 32.8 |
| 13-11352 | 42.3291 | 79.3329 | 496.5 | 1083.6 | 30.6 | 7.4 | 21.4 | 7.9 | 28.7 |
| 13-11353 | 42.3241 | 79.5003 | 413.9 | 977.2 | 30.6 | 8.2 | 22.8 | 7.1 | 30.1 |
| 13-11354 | 42.3133 | 79.4953 | 417.0 | 982.4 | 32.8 | 8.2 | 25.0 | 7.2 | 32.3 |
| 13-11355 | 42.3328 | 79.4383 | 447.8 | 1013.2 | 33.3 | 7.9 | 25.1 | 7.4 | 32.4 |
| 13-11358 | 42.4251 | 79.3482 | 241.4 | 723.9 | 29.4 | 9.8 | 27.2 | 5.2 | 34.4 |
| 13-11362 | 42.2132 | 79.7014 | 428.2 | 1020.8 | 33.9 | 8.3 | 25.1 | 7.4 | 32.4 |
| 13-11363 | 42.2182 | 79.6982 | 422.8 | 1033.9 | 35.0 | 8.3 | 25.8 | 7.5 | 33.1 |
| 13-11364 | 42.2733 | 79.6904 | 235.3 | 794.3 | 28.9 | 10.1 | 23.6 | 5.7 | 30.9 |
| 13-11370 | 42.4155 | 79.2924 | 296.6 | 780.0 | 29.4 | 9.2 | 25.9 | 5.6 | 33.2 |
| 13-11372 | 42.3092 | 79.3510 | 413.9 | 1014.4 | 31.7 | 8.2 | 23.1 | 7.4 | 30.4 |
| 13-11373 | 42.3276 | 79.3230 | 461.2 | 1051.0 | 33.9 | 7.7 | 24.9 | 7.7 | 32.2 |
| 13-11387 | 42.2214 | 79.6667 | 496.2 | 1886.4 | 47.2 | 7.6 | 21.0 | 13.2 | 28.0 |
| 13-11388 | 42.1058 | 79.4779 | 469.7 | 1225.9 | 33.3 | 7.9 | 20.7 | 8.9 | 28.0 |
| 13-11405 | 42.3240 | 79.3156 | 412.7 | 1008.0 | 33.3 | 8.2 | 24.9 | 7.4 | 32.2 |
| 13-11406 | 42.3195 | 79.3104 | 402.0 | 998.2 | 33.9 | 8.3 | 25.6 | 7.3 | 32.9 |
| 13-11407 | 42.2083 | 79.6943 | 446.5 | 1073.2 | 33.3 | 8.1 | 23.5 | 7.8 | 30.8 |
| 13-11414 | 42.1971 | 79.6498 | 474.0 | 1116.2 | 34.4 | 7.8 | 23.8 | 8.1 | 31.1 |
| 13-11415 | 42.3154 | 79.3439 | 493.2 | 1086.0 | 33.3 | 7.4 | 23.9 | 7.9 | 31.2 |
| 13-11422 | 42.3951 | 79.4096 | 252.1 | 746.8 | 32.2 | 9.7 | 30.1 | 5.4 | 37.3 |
| 13-11423 | 42.3920 | 79.3528 | 369.1 | 864.4 | 26.1 | 8.5 | 20.3 | 6.3 | 27.6 |
| 13-11424 | 42.3125 | 79.4075 | 460.6 | 1051.9 | 34.4 | 7.8 | 25.4 | 7.7 | 32.7 |
| 13-11427 | 42.3070 | 79.3835 | 443.5 | 1043.9 | 32.2 | 7.9 | 23.3 | 7.6 | 30.6 |
| 13-11429 | 42.2691 | 79.6424 | 417.6 | 978.4 | 32.2 | 8.3 | 24.4 | 7.1 | 31.7 |
| 13-11430 | 42.3331 | 79.5239 | 275.5 | 819.0 | 31.1 | 9.6 | 26.3 | 5.9 | 33.5 |
| 13-11431 | 42.3094 | 79.3933 | 449.9 | 1042.7 | 33.9 | 7.9 | 25.0 | 7.6 | 32.2 |
| 13-11448 | 42.3922 | 79.3436 | 379.8 | 885.4 | 31.7 | 8.4 | 26.2 | 6.4 | 33.5 |
| 13-11453 | 42.3925 | 79.4022 | 255.4 | 756.8 | 24.4 | 9.7 | 19.5 | 5.5 | 26.7 |
| 13-11454 | 42.4115 | 79.3551 | 268.2 | 761.4 | 29.4 | 9.5 | 26.2 | 5.5 | 33.4 |
| 13-11455 | 42.3215 | 79.4843 | 432.2 | 988.2 | 32.2 | 8.1 | 24.5 | 7.2 | 31.7 |
| 13-11456 | 42.3251 | 79.5204 | 329.5 | 876.9 | 30.6 | 9.1 | 24.5 | 6.4 | 31.8 |
| 13-11457 | 42.3096 | 79.5063 | 399.9 | 962.3 | 34.4 | 8.4 | 27.1 | 7.0 | 34.4 |
| 13-11459 | 42.2235 | 79.6419 | 523.0 | 1135.4 | 35.6 | 7.3 | 24.9 | 8.3 | 32.2 |
| 13-11469 | 42.4498 | 79.2961 | 247.8 | 699.5 | 22.2 | 9.6 | 18.0 | 5.0 | 25.1 |
| 13-11470 | 42.4543 | 79.3303 | 234.4 | 690.4 | 23.3 | 9.8 | 19.6 | 4.9 | 26.8 |
| 13-11471 | 42.4526 | 79.2822 | 254.5 | 691.9 | 25.6 | 9.6 | 23.1 | 5.0 | 30.3 |
| 13-11472 | 42.4463 | 79.2889 | 259.1 | 711.7 | 28.3 | 9.5 | 26.4 | 5.1 | 33.6 |
| 13-11473 | 42.4416 | 79.2517 | 359.7 | 813.5 | 24.4 | 8.5 | 19.5 | 5.9 | 26.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11477 | 42.2382 | 79.6276 | 482.8 | 1096.4 | 34.4 | 7.7 | 24.4 | 8.0 | 31.7 |
| 13-11486 | 42.3191 | 79.4750 | 480.9 | 1021.4 | 35.0 | 7.8 | 26.7 | 7.5 | 33.9 |
| 13-11487 | 42.3062 | 79.3666 | 397.5 | 1004.3 | 33.3 | 8.4 | 24.8 | 7.3 | 32.1 |
| 13-11488 | 42.3239 | 79.4671 | 448.1 | 1008.6 | 33.9 | 7.9 | 25.8 | 7.4 | 33.1 |
| 13-11489 | 42.2988 | 79.3674 | 396.8 | 1004.3 | 33.3 | 8.4 | 24.8 | 7.3 | 32.1 |
| 13-11499 | 42.3677 | 79.2745 | 453.2 | 1001.6 | 31.7 | 7.7 | 23.9 | 7.3 | 31.2 |
| 13-11500 | 42.2596 | 79.6986 | 272.8 | 853.4 | 31.1 | 9.8 | 25.0 | 6.2 | 32.3 |
| 13-11501 | 42.3123 | 79.3037 | 401.4 | 1012.5 | 32.2 | 8.3 | 23.6 | 7.4 | 30.9 |
| 13-11502 | 42.3654 | 79.2666 | 462.4 | 1013.5 | 34.4 | 7.6 | 26.4 | 7.4 | 33.7 |
| 13-11503 | 42.3605 | 79.2595 | 476.4 | 1030.5 | 31.7 | 7.5 | 23.4 | 7.5 | 30.7 |
| 13-11504 | 42.3648 | 79.2530 | 477.3 | 1064.1 | 32.2 | 7.5 | 23.2 | 7.8 | 30.5 |
| 13-11505 | 42.3664 | 79.3176 | 404.8 | 965.3 | 30.6 | 8.2 | 23.1 | 7.0 | 30.4 |
| 13-11511 | 42.3986 | 79.3786 | 286.5 | 774.2 | 35.6 | 9.4 | 33.8 | 5.6 | 41.1 |
| 13-11512 | 42.4380 | 79.2697 | 342.6 | 815.0 | 28.3 | 8.7 | 24.1 | 5.9 | 31.3 |
| 13-11513 | 42.3115 | 79.5141 | 376.4 | 933.0 | 32.2 | 8.6 | 25.3 | 6.8 | 32.6 |
| 13-11524 | 42.3184 | 79.5193 | 374.0 | 899.5 | 32.2 | 8.6 | 26.2 | 6.5 | 33.5 |
| 13-11525 | 42.3281 | 79.4965 | 423.4 | 982.1 | 31.7 | 8.1 | 24.0 | 7.2 | 31.2 |
| 13-11526 | 42.3949 | 79.3645 | 319.1 | 823.3 | 26.7 | 9.0 | 21.4 | 6.0 | 28.7 |
| 13-11530 | 42.1143 | 79.4695 | 523.0 | 1271.0 | 36.7 | 7.4 | 23.0 | 9.2 | 30.3 |
| 13-11532 | 42.3741 | 79.4341 | 259.7 | 780.3 | 28.9 | 9.7 | 24.6 | 5.6 | 31.9 |
| 13-11536 | 42.3854 | 79.3575 | 401.1 | 920.5 | 30.0 | 8.2 | 23.6 | 6.7 | 30.9 |
| 13-11537 | 42.3873 | 79.3349 | 402.3 | 911.4 | 31.1 | 8.2 | 25.1 | 6.6 | 32.4 |
| 13-11538 | 42.3772 | 79.3578 | 480.4 | 994.0 | 29.4 | 7.5 | 23.1 | 7.2 | 29.4 |
| 13-11552 | 42.4446 | 79.2716 | 309.7 | 796.4 | 22.8 | 9.0 | 17.3 | 5.8 | 24.5 |
| 13-11553 | 42.4203 | 79.2954 | 298.7 | 796.1 | 26.7 | 9.2 | 22.0 | 5.8 | 29.2 |
| 13-11555 | 42.4428 | 79.3432 | 220.1 | 670.0 | 23.3 | 9.9 | 20.0 | 4.8 | 27.1 |
| 13-11557 | 42.3117 | 79.4866 | 438.6 | 1010.1 | 33.3 | 8.0 | 25.1 | 7.4 | 32.4 |
| 13-11558 | 42.3159 | 79.4623 | 463.3 | 1041.8 | 32.2 | 7.8 | 23.5 | 7.6 | 30.8 |
| 13-11562 | 42.3683 | 79.3252 | 403.3 | 951.9 | 32.2 | 8.2 | 25.2 | 6.9 | 32.5 |
| 13-11563 | 42.3031 | 79.3470 | 416.4 | 1020.2 | 32.2 | 8.2 | 23.6 | 7.4 | 30.9 |
| 13-11564 | 42.3097 | 79.3218 | 500.8 | 1110.1 | 32.2 | 7.3 | 22.4 | 8.1 | 29.7 |
| 13-11568 | 42.3169 | 79.3230 | 517.9 | 1115.0 | 34.4 | 7.2 | 24.5 | 8.1 | 31.8 |
| 13-11583 | 42.4461 | 79.3142 | 239.3 | 706.8 | 25.6 | 9.7 | 22.4 | 5.1 | 29.6 |
| 13-11584 | 42.3328 | 79.4230 | 423.7 | 992.4 | 30.0 | 8.1 | 22.1 | 7.2 | 29.3 |
| 13-11585 | 42.3143 | 79.4166 | 479.1 | 1066.8 | 32.2 | 7.6 | 23.1 | 7.8 | 30.4 |
| 13-11586 | 42.3572 | 79.2523 | 513.6 | 1084.8 | 32.2 | 7.1 | 23.1 | 7.9 | 30.4 |
| 13-11595 | 42.3740 | 79.2678 | 442.9 | 983.6 | 31.7 | 7.8 | 24.2 | 7.2 | 31.5 |
| 13-11596 | 42.3538 | 79.3050 | 409.3 | 984.2 | 32.8 | 8.2 | 25.0 | 7.2 | 32.3 |
| 13-11597 | 42.3586 | 79.2447 | 526.7 | 1085.7 | 31.1 | 7.0 | 22.2 | 7.9 | 29.5 |
| 13-11599 | 42.1422 | 79.4931 | 491.0 | 1215.5 | 36.7 | 7.7 | 23.9 | 8.9 | 31.1 |
| 13-11603 | 42.3456 | 79.3002 | 450.5 | 1033.9 | 31.7 | 7.8 | 23.1 | 7.5 | 30.4 |
| 13-11604 | 42.2934 | 79.3565 | 395.6 | 1006.8 | 31.1 | 8.4 | 22.6 | 7.3 | 29.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11605 | 42.3188 | 79.3002 | 400.5 | 1001.3 | 32.2 | 8.3 | 23.9 | 7.3 | 31.2 |
| 13-11606 | 42.3270 | 79.3017 | 403.6 | 995.8 | 31.1 | 8.3 | 22.9 | 7.3 | 30.2 |
| 13-11612 | 42.4429 | 79.3294 | 227.1 | 680.6 | 26.1 | 9.9 | 23.9 | 4.9 | 31.0 |
| 13-11613 | 42.4446 | 79.2652 | 327.4 | 818.4 | 25.6 | 8.9 | 20.4 | 5.9 | 27.6 |
| 13-11614 | 42.3632 | 79.4234 | 319.4 | 860.1 | 30.6 | 9.1 | 25.0 | 6.2 | 32.2 |
| 13-11615 | 42.3701 | 79.4160 | 331.3 | 864.7 | 28.9 | 9.0 | 23.0 | 6.3 | 30.3 |
| 13-11616 | 42.3785 | 79.2799 | 440.4 | 985.7 | 31.7 | 7.8 | 24.2 | 7.2 | 31.5 |
| 13-11617 | 42.3788 | 79.2723 | 426.7 | 973.8 | 31.7 | 8.0 | 24.3 | 7.1 | 31.6 |
| 13-11626 | 42.3969 | 79.2864 | 374.9 | 856.2 | 36.1 | 8.5 | 32.3 | 6.2 | 39.5 |
| 13-11627 | 42.4260 | 79.2952 | 289.6 | 771.4 | 24.4 | 9.3 | 19.7 | 5.6 | 26.9 |
| 13-11634 | 42.3123 | 79.4571 | 499.0 | 1082.6 | 28.9 | 7.4 | 19.8 | 7.9 | 27.1 |
| 13-11635 | 42.3215 | 79.4285 | 457.2 | 1032.1 | 30.6 | 7.8 | 22.1 | 7.5 | 29.3 |
| 13-11636 | 42.3159 | 79.4374 | 443.8 | 1058.6 | 33.3 | 7.9 | 25.0 | 7.7 | 32.3 |
| 13-11637 | 42.3095 | 79.4489 | 505.7 | 1098.8 | 34.4 | 7.3 | 23.7 | 8.0 | 31.0 |
| 13-11638 | 42.3151 | 79.4278 | 471.8 | 1064.7 | 33.3 | 7.7 | 24.1 | 7.8 | 31.4 |
| 13-11643 | 42.3807 | 79.2869 | 399.0 | 954.9 | 31.7 | 8.2 | 24.5 | 7.0 | 31.8 |
| 13-11648 | 42.3100 | 79.4404 | 481.6 | 1068.9 | 32.2 | 7.6 | 23.1 | 7.8 | 30.4 |
| 13-11649 | 42.3040 | 79.4424 | 497.1 | 1089.1 | 33.9 | 7.4 | 24.3 | 7.9 | 31.6 |
| 13-11650 | 42.3055 | 79.4352 | 479.5 | 1064.1 | 32.8 | 7.6 | 23.7 | 7.8 | 31.0 |
| 13-11657 | 42.3060 | 79.4926 | 419.1 | 992.4 | 31.1 | 8.2 | 23.1 | 7.2 | 30.4 |
| 13-11659 | 42.1157 | 79.4948 | 503.2 | 1243.3 | 33.9 | 7.6 | 21.2 | 9.1 | 28.4 |
| 13-11661 | 42.0907 | 79.4731 | 460.6 | 1236.0 | 34.4 | 8.0 | 21.4 | 9.0 | 28.7 |
| 13-11664 | 42.1696 | 79.5091 | 472.7 | 1179.6 | 35.6 | 7.8 | 23.5 | 8.6 | 30.8 |
| 13-11667 | 42.0663 | 79.7364 | 433.4 | 1176.8 | 38.9 | 8.4 | 25.9 | 8.6 | 33.2 |
| 13-11671 | 42.3103 | 79.4237 | 487.1 | 1080.5 | 31.1 | 7.5 | 21.8 | 7.9 | 29.1 |
| 13-11672 | 42.1615 | 79.4705 | 481.3 | 1196.3 | 28.9 | 7.7 | 17.7 | 8.7 | 25.0 |
| 13-11678 | 42.4356 | 79.3618 | 210.6 | 672.7 | 26.7 | 10.0 | 24.7 | 4.8 | 31.8 |
| 13-11679 | 42.4539 | 79.3651 | 195.4 | 652.0 | 28.9 | 10.2 | 28.7 | 4.6 | 35.8 |
| 13-11680 | 42.4274 | 79.3712 | 223.1 | 706.5 | 28.3 | 9.9 | 26.0 | 5.1 | 33.2 |
| 13-11681 | 42.4342 | 79.3729 | 211.2 | 673.0 | 28.3 | 10.0 | 27.2 | 4.8 | 34.3 |
| 13-11682 | 42.4302 | 79.3534 | 231.6 | 700.4 | 32.2 | 9.8 | 31.9 | 5.0 | 39.1 |
| 13-11683 | 42.4458 | 79.2327 | 384.7 | 857.4 | 27.2 | 8.3 | 22.1 | 6.2 | 29.3 |
| 13-11684 | 42.4402 | 79.2331 | 405.4 | 885.1 | 31.1 | 8.1 | 26.0 | 6.4 | 33.3 |
| 13-11686 | 42.4417 | 79.1986 | 345.9 | 834.2 | 28.9 | 8.7 | 24.2 | 6.0 | 31.5 |
| 13-11687 | 42.4461 | 79.1936 | 339.9 | 848.9 | 27.8 | 8.7 | 22.5 | 6.2 | 29.7 |
| 13-11691 | 42.4561 | 79.2596 | 280.7 | 730.6 | 28.9 | 9.3 | 26.8 | 5.3 | 34.0 |
| 13-11696 | 42.3041 | 79.4615 | 483.7 | 1066.5 | 31.7 | 7.6 | 22.6 | 7.8 | 29.9 |
| 13-11697 | 42.3207 | 79.4425 | 489.8 | 1054.9 | 31.1 | 7.5 | 22.4 | 7.7 | 29.7 |
| 13-11698 | 42.3165 | 79.4475 | 506.0 | 1082.3 | 31.7 | 7.3 | 22.5 | 7.9 | 29.8 |
| 13-11701 | 42.3745 | 79.2857 | 433.7 | 991.2 | 30.0 | 7.9 | 22.3 | 7.2 | 29.6 |
| 13-11702 | 42.3884 | 79.2948 | 326.1 | 851.3 | 27.2 | 9.0 | 21.5 | 6.2 | 28.7 |
| 13-11705 | 42.0316 | 79.6814 | 439.2 | 1249.4 | 37.8 | 8.3 | 23.6 | 9.1 | 30.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11710 | 42.4860 | 79.3255 | 185.9 | 613.0 | 26.1 | 10.2 | 25.9 | 4.3 | 33.0 |
| 13-11711 | 42.3593 | 79.4164 | 349.0 | 905.3 | 29.4 | 8.8 | 22.8 | 6.6 | 30.1 |
| 13-11712 | 42.3459 | 79.4237 | 420.3 | 975.4 | 31.1 | 8.1 | 23.6 | 7.1 | 30.9 |
| 13-11713 | 42.3341 | 79.3139 | 398.7 | 986.9 | 30.0 | 8.3 | 22.0 | 7.2 | 29.3 |
| 13-11714 | 42.3679 | 79.3058 | 396.2 | 947.0 | 31.1 | 8.3 | 24.1 | 6.9 | 31.4 |
| 13-11715 | 42.2971 | 79.4039 | 506.9 | 1112.8 | 34.4 | 7.3 | 24.4 | 8.1 | 31.7 |
| 13-11716 | 42.3033 | 79.3896 | 450.8 | 1056.4 | 32.2 | 7.9 | 23.1 | 7.7 | 30.4 |
| 13-11717 | 42.3053 | 79.3329 | 466.6 | 1081.7 | 31.7 | 7.7 | 22.2 | 7.9 | 29.5 |
| 13-11718 | 42.2900 | 79.3474 | 402.0 | 1016.2 | 30.0 | 8.3 | 21.3 | 7.4 | 28.6 |
| 13-11720 | 42.3544 | 79.2602 | 486.8 | 1075.9 | 32.8 | 7.4 | 23.6 | 7.9 | 30.9 |
| 13-11724 | 42.3884 | 79.3681 | 371.6 | 893.4 | 30.6 | 8.5 | 24.6 | 6.5 | 31.9 |
| 13-11734 | 42.1161 | 79.5185 | 558.1 | 1293.6 | 37.8 | 7.0 | 23.8 | 9.4 | 31.0 |
| 13-11751 | 42.3384 | 79.3071 | 406.9 | 987.9 | 29.4 | 8.2 | 21.5 | 7.2 | 28.8 |
| 13-11752 | 42.2944 | 79.4161 | 504.7 | 1106.4 | 33.9 | 7.4 | 24.0 | 8.1 | 31.3 |
| 13-11753 | 42.3847 | 79.3746 | 395.6 | 911.4 | 30.0 | 8.3 | 23.8 | 6.6 | 31.1 |
| 13-11764 | 42.3807 | 79.3878 | 393.5 | 918.7 | 30.0 | 8.3 | 23.6 | 6.7 | 30.9 |
| 13-11765 | 42.2986 | 79.4424 | 500.5 | 1095.1 | 30.0 | 7.4 | 20.6 | 8.0 | 27.9 |
| 13-11766 | 42.3036 | 79.4519 | 511.1 | 1097.9 | 30.6 | 7.3 | 21.2 | 8.0 | 28.5 |
| 13-11774 | 42.4415 | 79.3576 | 208.8 | 671.2 | 26.7 | 10.1 | 24.7 | 4.8 | 31.9 |
| 13-11783 | 42.4816 | 79.3080 | 201.2 | 634.3 | 28.3 | 10.1 | 28.8 | 4.5 | 35.9 |
| 13-11784 | 42.4498 | 79.3490 | 201.2 | 668.7 | 28.9 | 10.1 | 28.1 | 4.8 | 35.2 |
| 13-11786 | 42.5179 | 79.2424 | 207.3 | 603.5 | 22.8 | 9.9 | 21.3 | 4.3 | 28.4 |
| 13-11788 | 42.4240 | 79.3371 | 249.9 | 719.3 | 24.4 | 9.7 | 20.5 | 5.2 | 27.7 |
| 13-11793 | 42.3062 | 79.4696 | 432.2 | 1008.6 | 30.6 | 8.1 | 22.3 | 7.4 | 29.6 |
| 13-11800 | 42.4636 | 79.3170 | 211.8 | 662.3 | 23.9 | 10.0 | 21.0 | 4.7 | 28.1 |
| 13-11702 | 42.4661 | 79.3025 | 219.2 | 665.1 | 22.8 | 9.9 | 19.4 | 4.7 | 26.5 |
| 13-11803 | 42.3828 | 79.2782 | 420.9 | 871.1 | 34.4 | 8.0 | 30.3 | 6.3 | 37.0 |
| 13-11804 | 42.3806 | 79.2782 | 408.7 | 838.2 | 33.9 | 8.1 | 27.4 | 6.8 | 34.7 |
| 13-11806 | 42.4872 | 79.2965 | 202.7 | 625.1 | 30.0 | 10.0 | 32.8 | 4.4 | 39.9 |
| 13-11807 | 42.4811 | 79.2954 | 207.6 | 630.6 | 25.6 | 10.0 | 24.7 | 4.5 | 31.8 |
| 13-11808 | 42.4542 | 79.3532 | 190.3 | 654.1 | 27.8 | 10.1 | 27.0 | 4.7 | 34.1 |
| 13-11809 | 42.4456 | 79.3536 | 213.4 | 673.6 | 29.4 | 10.0 | 28.9 | 4.8 | 36.0 |
| 13-11810 | 42.4331 | 79.3438 | 240.2 | 713.2 | 28.9 | 9.8 | 26.8 | 5.1 | 34.0 |
| 13-11811 | 42.4426 | 79.4139 | 189.6 | 641.0 | 28.3 | 10.3 | 28.2 | 4.6 | 35.3 |
| 13-11812 | 42.4456 | 79.4056 | 186.2 | 637.6 | 25.0 | 10.3 | 23.1 | 4.5 | 30.2 |
| 13-11866 | 42.2913 | 79.4471 | 504.1 | 1092.4 | 33.9 | 7.4 | 24.3 | 8.0 | 31.6 |
| 13-11867 | 42.2878 | 79.4411 | 493.2 | 1094.2 | 31.7 | 7.5 | 22.1 | 8.0 | 29.4 |
| 13-11868 | 42.2871 | 79.4308 | 474.9 | 1102.8 | 30.0 | 7.7 | 20.3 | 8.0 | 27.6 |
| 13-11869 | 42.2818 | 79.4300 | 472.4 | 1089.4 | 35.6 | 7.7 | 25.6 | 7.9 | 32.9 |
| 13-11870 | 42.2751 | 79.4284 | 448.1 | 1067.7 | 35.0 | 7.9 | 25.3 | 7.8 | 32.6 |
| 13-11871 | 42.2807 | 79.4478 | 493.2 | 1202.1 | 35.0 | 7.5 | 22.9 | 8.8 | 30.2 |
| 13-11872 | 42.2813 | 79.4637 | 434.9 | 1046.4 | 32.2 | 8.1 | 23.1 | 7.6 | 30.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11873 | 42.2779 | 79.4704 | 412.4 | 1018.3 | 34.4 | 8.3 | 25.7 | 7.4 | 33.0 |
| 13-11874 | 42.2727 | 79.4728 | 408.4 | 1019.9 | 32.8 | 8.3 | 24.0 | 7.4 | 31.3 |
| 13-11875 | 42.2725 | 79.4641 | 444.7 | 1054.9 | 33.3 | 8.0 | 24.0 | 7.7 | 31.3 |
| 13-11876 | 42.2683 | 79.4693 | 412.4 | 1016.5 | 33.3 | 8.3 | 24.6 | 7.4 | 31.9 |
| 13-11877 | 42.2656 | 79.4602 | 451.7 | 1069.5 | 33.9 | 7.9 | 24.3 | 7.8 | 31.6 |
| 13-11879 | 42.2753 | 79.4525 | 474.9 | 1085.7 | 33.9 | 7.7 | 24.1 | 7.9 | 31.4 |
| 13-11880 | 42.2587 | 79.4507 | 469.4 | 1097.3 | 35.6 | 7.8 | 25.3 | 8.0 | 32.6 |
| 13-11882 | 42.2690 | 79.4290 | 428.5 | 1051.3 | 32.2 | 8.1 | 22.9 | 7.7 | 30.2 |
| 13-11883 | 42.2583 | 79.4348 | 416.7 | 1064.7 | 31.7 | 8.3 | 22.0 | 7.8 | 29.3 |
| 13-11884 | 42.2640 | 79.4312 | 423.1 | 1054.6 | 33.3 | 8.2 | 23.8 | 7.7 | 31.1 |
| 13-11885 | 42.2757 | 79.4209 | 455.1 | 1058.9 | 33.9 | 7.9 | 24.6 | 7.7 | 31.9 |
| 13-11886 | 42.2878 | 79.4229 | 469.1 | 1077.5 | 32.8 | 7.7 | 23.3 | 7.9 | 30.6 |
| 13-11887 | 42.2885 | 79.3969 | 525.2 | 1153.7 | 36.7 | 7.2 | 25.6 | 8.4 | 32.9 |
| 13-11888 | 42.2830 | 79.3936 | 518.8 | 1137.8 | 33.9 | 7.2 | 23.4 | 8.3 | 30.7 |
| 13-11889 | 42.2878 | 79.3846 | 474.9 | 1092.4 | 33.9 | 7.6 | 24.0 | 8.0 | 31.3 |
| 13-11890 | 42.2903 | 79.3776 | 443.8 | 1060.4 | 33.3 | 7.9 | 23.9 | 7.7 | 31.2 |
| 13-11891 | 42.2818 | 79.3982 | 486.8 | 1116.5 | 34.4 | 7.5 | 24.1 | 8.1 | 31.4 |
| 13-11893 | 42.2890 | 79.3952 | 397.8 | 1015.6 | 33.3 | 8.4 | 24.5 | 7.4 | 31.8 |
| 13-11894 | 42.2807 | 79.3904 | 397.2 | 1029.9 | 33.9 | 8.4 | 24.7 | 7.5 | 32.0 |
| 13-11895 | 42.2869 | 79.3526 | 393.8 | 1011.0 | 35.0 | 8.4 | 26.3 | 7.4 | 33.6 |
| 13-11896 | 42.2844 | 79.3420 | 398.7 | 1021.4 | 34.4 | 8.4 | 25.5 | 7.5 | 32.8 |
| 13-11897 | 42.2517 | 79.3707 | 433.4 | 1052.5 | 29.4 | 8.1 | 20.3 | 7.7 | 27.6 |
| 13-11900 | 42.2915 | 79.3157 | 398.1 | 1024.1 | 30.0 | 8.4 | 21.1 | 7.5 | 28.4 |
| 13-11901 | 42.2957 | 79.3225 | 431.9 | 1048.5 | 32.8 | 8.0 | 23.6 | 7.7 | 30.9 |
| 13-11902 | 42.3010 | 79.3252 | 444.7 | 1057.4 | 33.9 | 7.9 | 24.6 | 7.7 | 31.9 |
| 13-11903 | 42.3038 | 79.3101 | 402.0 | 1012.9 | 32.2 | 8.3 | 23.6 | 7.4 | 30.9 |
| 13-11904 | 42.2968 | 79.3126 | 401.4 | 1018.0 | 32.8 | 8.3 | 24.0 | 7.4 | 31.3 |
| 13-11905 | 42.3099 | 79.3104 | 404.5 | 1018.9 | 28.3 | 8.3 | 19.7 | 7.4 | 27.0 |
| 13-11907 | 42.2871 | 79.2985 | 401.1 | 1026.6 | 33.3 | 8.3 | 24.3 | 7.5 | 31.6 |
| 13-11909 | 42.3294 | 79.2895 | 413.3 | 1000.0 | 32.2 | 8.2 | 24.1 | 7.3 | 31.3 |
| 13-11910 | 42.3269 | 79.2806 | 453.5 | 1042.7 | 32.8 | 7.8 | 24.0 | 7.6 | 31.3 |
| 13-11911 | 42.3225 | 79.2898 | 410.6 | 998.5 | 33.9 | 8.2 | 25.7 | 7.3 | 33.0 |
| 13-11912 | 42.3165 | 79.2874 | 413.9 | 1020.5 | 32.2 | 8.2 | 23.6 | 7.4 | 30.9 |
| 13-11913 | 42.3089 | 79.2849 | 439.5 | 1048.8 | 33.3 | 7.9 | 24.2 | 7.7 | 31.5 |
| 13-11914 | 42.3115 | 79.2910 | 423.4 | 1033.9 | 31.7 | 8.1 | 22.8 | 7.5 | 30.1 |
| 13-11916 | 42.3053 | 79.2755 | 470.0 | 1079.9 | 33.9 | 7.6 | 24.3 | 7.9 | 31.6 |
| 13-11920 | 42.4516 | 79.3103 | 233.2 | 691.9 | 28.3 | 9.8 | 26.8 | 5.0 | 34.0 |
| 13-11922 | 42.4419 | 79.3707 | 200.6 | 661.7 | 30.6 | 10.1 | 30.8 | 4.7 | 38.0 |
| 13-11923 | 42.4405 | 79.2232 | 411.5 | 899.2 | 30.0 | 8.0 | 24.4 | 6.5 | 31.7 |
| 13-11928 | 42.4656 | 79.3553 | 199.6 | 638.3 | 27.8 | 10.1 | 27.7 | 4.5 | 34.8 |
| 13-11929 | 42.4654 | 79.3638 | 185.9 | 630.9 | 28.3 | 10.3 | 28.7 | 4.5 | 35.8 |
| 13-11934 | 42.3003 | 79.5027 | 409.3 | 986.3 | 32.2 | 8.3 | 24.2 | 7.2 | 31.5 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-11939 | 42.2057 | 79.6178 | 515.4 | 1165.6 | 33.3 | 7.4 | 22.2 | 8.5 | 29.5 |
| 13-11940 | 42.3010 | 79.4709 | 417.6 | 1000.7 | 30.0 | 8.2 | 21.8 | 7.3 | 29.1 |
| 13-11941 | 42.2937 | 79.4806 | 411.8 | 989.7 | 33.9 | 8.3 | 25.9 | 7.2 | 33.2 |
| 13-11952 | 42.4484 | 79.3043 | 240.8 | 707.4 | 28.3 | 9.7 | 26.3 | 5.1 | 33.5 |
| 13-11956 | 42.5031 | 79.2593 | 204.2 | 601.7 | 21.1 | 10.0 | 18.5 | 4.3 | 25.6 |
| 13-11961 | 42.4490 | 79.3697 | 196.3 | 661.4 | 30.6 | 10.2 | 30.8 | 4.7 | 37.9 |
| 13-11984 | 42.4567 | 79.3594 | 194.8 | 634.0 | 27.8 | 10.2 | 27.8 | 4.5 | 34.9 |
| 13-11985 | 42.4606 | 79.3543 | 193.2 | 637.6 | 25.6 | 10.2 | 24.1 | 4.5 | 31.2 |
| 13-12001 | 42.1362 | 79.4887 | 512.4 | 1226.8 | 34.4 | 7.5 | 22.0 | 8.9 | 29.3 |
| 13-12045 | 42.4342 | 79.3315 | 234.7 | 706.5 | 27.2 | 9.8 | 24.7 | 5.1 | 31.8 |
| 13-12077 | 42.4680 | 79.1713 | 257.9 | 707.7 | 30.6 | 9.5 | 29.8 | 5.1 | 37.0 |
| 13-12078 | 42.4891 | 79.1624 | 253.9 | 711.1 | 27.8 | 9.5 | 25.7 | 5.1 | 32.9 |
| 13-12090 | 42.4836 | 79.1654 | 261.2 | 716.6 | 31.1 | 9.4 | 30.3 | 5.1 | 37.4 |
| 13-12091 | 42.4846 | 79.1563 | 264.9 | 723.9 | 27.8 | 9.4 | 25.4 | 5.2 | 32.6 |
| 13-12093 | 42.4786 | 79.1533 | 316.4 | 783.3 | 28.3 | 8.9 | 24.8 | 5.7 | 32.0 |
| 13-12094 | 42.4786 | 79.1842 | 296.3 | 746.2 | 31.7 | 9.1 | 30.3 | 5.4 | 37.5 |
| 13-12095 | 42.4772 | 79.1923 | 297.2 | 733.0 | 27.8 | 9.1 | 25.5 | 5.3 | 32.7 |
| 13-12096 | 42.4732 | 79.1862 | 321.6 | 781.2 | 30.0 | 8.9 | 27.1 | 5.6 | 34.3 |
| 13-12099 | 42.4556 | 79.1828 | 327.1 | 810.5 | 31.7 | 8.8 | 28.2 | 5.9 | 35.4 |
| 13-12100 | 42.4502 | 79.1887 | 300.8 | 799.8 | 28.3 | 9.1 | 24.1 | 5.8 | 31.3 |
| 13-12101 | 42.4496 | 79.1793 | 365.8 | 858.6 | 31.1 | 8.5 | 26.4 | 6.2 | 33.6 |
| 13-12102 | 42.3617 | 79.1837 | 362.1 | 866.2 | 31.7 | 8.6 | 26.6 | 6.3 | 33.9 |
| 13-12103 | 42.4652 | 79.1485 | 369.7 | 853.7 | 30.0 | 8.4 | 25.3 | 6.2 | 32.6 |
| 13-12105 | 42.4732 | 79.1498 | 341.4 | 816.3 | 30.6 | 8.7 | 26.8 | 5.9 | 34.1 |
| 13-12106 | 42.4734 | 79.1572 | 320.6 | 791.6 | 28.9 | 8.9 | 25.3 | 5.7 | 32.5 |
| 13-12130 | 42.3865 | 79.4064 | 297.5 | 807.7 | 31.7 | 9.3 | 27.7 | 5.8 | 35.0 |
| 13-12131 | 42.3836 | 79.4977 | 282.2 | 796.7 | 36.1 | 9.5 | 33.5 | 5.8 | 40.7 |
| 13-12132 | 42.3893 | 79.4167 | 250.9 | 768.1 | 28.3 | 9.7 | 24.2 | 5.5 | 31.4 |
| 13-12133 | 42.3849 | 79.4222 | 246.3 | 769.0 | 28.3 | 9.8 | 24.1 | 5.6 | 33.3 |
| 13-12134 | 42.4848 | 79.3021 | 609.9 | 623.6 | 26.1 | 6.1 | 32.2 | 4.4 | 39.3 |
| 13-12151 | 42.0413 | 79.4684 | 499.0 | 1312.2 | 35.6 | 7.7 | 21.3 | 9.5 | 28.5 |
| 13-12152 | 42.4565 | 79.3170 | 217.6 | 669.6 | 26.1 | 9.9 | 24.2 | 4.8 | 31.3 |
| 13-12167 | 42.4630 | 79.3832 | 185.9 | 623.9 | 26.7 | 10.3 | 26.3 | 4.4 | 33.4 |
| 13-12168 | 42.4628 | 79.3748 | 189.0 | 641.6 | 26.7 | 10.2 | 25.6 | 4.6 | 32.7 |
| 13-12169 | 42.4591 | 79.3890 | 185.9 | 635.8 | 26.7 | 10.3 | 25.8 | 4.5 | 32.9 |
| 13-12171 | 42.4584 | 79.3696 | 191.4 | 640.4 | 26.7 | 10.2 | 25.7 | 4.6 | 32.8 |
| 13-12173 | 42.4723 | 79.3557 | 190.5 | 625.8 | 27.2 | 10.2 | 27.2 | 4.4 | 34.3 |
| 13-12174 | 42.4661 | 79.3415 | 197.8 | 643.1 | 26.7 | 10.1 | 25.7 | 4.6 | 32.8 |
| 13-12175 | 42.4638 | 79.3478 | 198.1 | 650.4 | 27.8 | 10.1 | 27.1 | 4.6 | 34.3 |
| 13-12186 | 42.5130 | 79.0891 | 266.1 | 725.7 | 29.4 | 9.3 | 27.7 | 5.2 | 34.9 |
| 13-12188 | 42.5203 | 79.0839 | 270.7 | 732.1 | 30.0 | 9.3 | 28.3 | 5.3 | 35.5 |
| 13-12189 | 42.5169 | 79.0630 | 271.6 | 723.3 | 28.3 | 9.2 | 26.4 | 5.2 | 33.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-12297 | 42.4347 | 79.2329 | 433.7 | 983.0 | 27.8 | 7.8 | 21.4 | 6.8 | 28.7 |
| 13-12298 | 42.4295 | 79.2276 | 447.4 | 939.4 | 29.4 | 7.7 | 23.2 | 6.8 | 30.4 |
| 13-12299 | 42.4339 | 79.2184 | 526.4 | 905.3 | 28.9 | 6.9 | 24.3 | 6.6 | 31.6 |
| 13-12300 | 42.4301 | 79.2380 | 475.5 | 961.6 | 27.2 | 7.4 | 20.6 | 7.0 | 27.9 |
| 13-12301 | 42.4202 | 79.2682 | 456.3 | 930.9 | 28.9 | 7.6 | 22.8 | 6.8 | 30.1 |
| 13-12302 | 42.4186 | 79.2769 | 369.7 | 882.4 | 29.4 | 8.5 | 23.8 | 6.4 | 31.0 |
| 13-12305 | 42.4879 | 79.1486 | 278.9 | 736.4 | 30.0 | 9.2 | 28.2 | 5.3 | 35.4 |
| 13-12306 | 42.4819 | 79.1468 | 316.4 | 785.2 | 29.4 | 8.9 | 26.2 | 5.7 | 33.4 |
| 13-12307 | 42.4774 | 79.1412 | 342.0 | 822.4 | 30.6 | 8.6 | 26.7 | 6.0 | 33.9 |
| 13-12309 | 42.4754 | 79.1332 | 356.6 | 841.9 | 31.7 | 8.5 | 27.5 | 6.1 | 34.8 |
| 13-12310 | 42.4800 | 79.1279 | 346.3 | 820.8 | 28.3 | 8.6 | 24.1 | 5.9 | 31.3 |
| 13-12329 | 42.5000 | 79.0683 | 295.4 | 773.3 | 28.9 | 9.0 | 25.7 | 5.6 | 32.9 |
| 13-12332 | 42.0478 | 79.4992 | 536.4 | 1358.2 | 37.8 | 7.3 | 22.4 | 9.9 | 29.7 |
| 13-12339 | 42.4162 | 79.2838 | 334.7 | 855.6 | 29.4 | 8.8 | 24.1 | 6.2 | 31.3 |
| 13-12351 | 42.4139 | 79.2554 | 490.7 | 997.0 | 28.3 | 7.3 | 21.1 | 7.3 | 28.4 |
| 13-12366 | 42.3943 | 79.1826 | 423.1 | 972.6 | 29.4 | 8.0 | 22.1 | 7.1 | 29.4 |
| 13-12367 | 42.3893 | 79.1845 | 425.2 | 981.8 | 30.0 | 7.9 | 22.5 | 7.2 | 29.8 |
| 13-12385 | 42.4032 | 79.2410 | 512.7 | 1026.9 | 29.4 | 7.1 | 21.8 | 7.5 | 29.1 |
| 13-12386 | 42.3954 | 79.2295 | 535.8 | 1067.7 | 32.8 | 6.9 | 24.3 | 7.8 | 31.6 |
| 13-12387 | 42.3970 | 79.2414 | 523.0 | 1053.4 | 26.7 | 7.0 | 18.7 | 7.7 | 26.0 |
| 13-12388 | 42.3918 | 79.2364 | 545.6 | 1083.6 | 31.7 | 6.8 | 23.0 | 7.9 | 30.3 |
| 13-12390 | 42.3902 | 79.2434 | 517.9 | 1061.9 | 32.2 | 7.1 | 23.7 | 7.7 | 31.0 |
| 13-12391 | 42.3861 | 79.2388 | 507.8 | 1045.5 | 32.2 | 7.2 | 24.0 | 7.6 | 31.3 |
| 13-12397 | 42.4616 | 79.3383 | 202.7 | 656.8 | 27.8 | 10.1 | 26.9 | 4.7 | 34.1 |
| 13-12411 | 42.3903 | 79.4243 | 240.8 | 748.9 | 28.3 | 9.8 | 24.7 | 5.4 | 31.9 |
| 13-12413 | 42.3770 | 79.3666 | 471.8 | 965.2 | 33.3 | 7.6 | 25.9 | 7.3 | 33.2 |
| 13-12414 | 42.3713 | 79.3630 | 469.4 | 1012.9 | 30.6 | 7.6 | 22.7 | 7.4 | 30.0 |
| 13-12418 | 42.4628 | 79.1687 | 324.0 | 792.5 | 23.9 | 8.8 | 19.0 | 5.7 | 26.2 |
| 13-12419 | 42.4255 | 79.1177 | 190.8 | 553.2 | 25.6 | 10.2 | 27.8 | 3.9 | 34.8 |
| 13-12421 | 42.3819 | 79.2343 | 494.1 | 1027.8 | 32.8 | 7.3 | 24.8 | 7.5 | 32.1 |
| 13-12423 | 42.4024 | 79.2241 | 487.4 | 1020.8 | 30.6 | 7.3 | 22.7 | 7.4 | 30.0 |
| 13-12426 | 42.4325 | 79.2852 | 309.4 | 803.8 | 26.7 | 9.1 | 21.9 | 5.8 | 29.1 |
| 13-12427 | 42.4251 | 79.2175 | 404.2 | 964.1 | 30.6 | 8.1 | 23.3 | 7.0 | 30.6 |
| 13-12445 | 42.3902 | 79.2597 | 466.6 | 996.1 | 31.7 | 7.6 | 24.2 | 7.3 | 31.5 |
| 13-12458 | 42.2893 | 79.4138 | 481.3 | 1069.8 | 29.4 | 7.6 | 20.4 | 7.8 | 27.7 |
| 13-12481 | 42.2889 | 79.4039 | 510.8 | 1115.3 | 26.7 | 7.3 | 17.4 | 8.1 | 24.7 |
| 13-12482 | 42.2748 | 79.3541 | 397.8 | 1024.4 | 32.8 | 8.4 | 23.8 | 7.5 | 31.1 |
| 13-12550 | 42.4008 | 79.2881 | 362.4 | 892.5 | 31.7 | 8.6 | 25.9 | 6.5 | 33.1 |
| 13-12578 | 42.0548 | 79.4891 | 536.4 | 1359.7 | 37.2 | 7.3 | 22.0 | 9.9 | 29.3 |
| 13-12579 | 42.0497 | 79.4918 | 518.5 | 1342.6 | 36.1 | 7.5 | 21.3 | 9.7 | 28.6 |
| 13-12580 | 42.0548 | 79.4891 | 527.6 | 1347.8 | 36.7 | 7.4 | 21.7 | 9.8 | 29.0 |
| 13-12581 | 42.0541 | 79.4960 | 518.5 | 1340.5 | 36.1 | 7.5 | 21.4 | 9.7 | 28.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-12582 | 42.0424 | 79.4632 | 526.1 | 1350.0 | 38.9 | 7.4 | 23.3 | 9.8 | 30.6 |
| 13-12583 | 42.0449 | 79.5114 | 533.7 | 1358.5 | 38.3 | 7.3 | 22.8 | 9.9 | 30.1 |
| 13-12584 | 42.0580 | 79.5058 | 553.5 | 1360.0 | 33.3 | 7.1 | 19.3 | 9.9 | 26.5 |
| 13-12585 | 42.0530 | 79.4657 | 531.3 | 1342.6 | 36.7 | 7.3 | 21.8 | 9.7 | 29.1 |
| 13-12587 | 42.0594 | 79.4985 | 530.7 | 1341.1 | 36.1 | 7.4 | 21.4 | 9.7 | 28.7 |
| 13-12588 | 42.0474 | 79.4624 | 483.4 | 1318.6 | 36.1 | 7.8 | 21.5 | 9.6 | 28.7 |
| 13-12589 | 42.0338 | 79.4477 | 535.2 | 1387.1 | 37.8 | 7.3 | 22.0 | 10.0 | 29.2 |
| 13-12591 | 42.0350 | 79.4677 | 500.2 | 1352.4 | 38.9 | 7.7 | 23.1 | 9.8 | 30.3 |
| 13-12592 | 42.0408 | 79.4478 | 521.5 | 1331.4 | 40.0 | 7.4 | 24.5 | 9.7 | 31.7 |
| 13-12593 | 42.0464 | 79.4525 | 511.8 | 1335.9 | 43.3 | 7.5 | 26.8 | 9.7 | 34.1 |
| 13-12594 | 42.0345 | 79.4597 | 524.6 | 1399.6 | 38.3 | 7.4 | 22.1 | 10.1 | 29.3 |
| 13-12597 | 42.2755 | 79.5456 | 390.1 | 1012.9 | 31.7 | 8.5 | 22.8 | 7.4 | 30.1 |
| 13-12598 | 42.2788 | 79.4400 | 502.3 | 1112.5 | 32.8 | 7.4 | 22.8 | 8.1 | 30.1 |
| 13-12599 | 42.2630 | 79.4667 | 419.1 | 1089.7 | 31.7 | 8.2 | 22.5 | 7.6 | 29.8 |
| 13-12600 | 42.2528 | 79.4460 | 441.0 | 1082.4 | 33.3 | 8.0 | 23.2 | 8.0 | 30.5 |
| 13-12601 | 42.2508 | 79.4377 | 411.2 | 1054.6 | 32.8 | 8.3 | 23.2 | 7.7 | 30.5 |
| 13-12602 | 42.2592 | 79.4274 | 426.4 | 1066.8 | 31.1 | 8.2 | 21.5 | 7.8 | 28.8 |
| 13-12603 | 42.2531 | 79.4276 | 434.6 | 1078.1 | 33.3 | 8.1 | 23.4 | 7.9 | 30.7 |
| 13-12604 | 42.2585 | 79.4189 | 453.2 | 1097.6 | 33.3 | 7.9 | 23.2 | 8.0 | 30.5 |
| 13-12605 | 42.2661 | 79.4192 | 453.8 | 1079.0 | 32.2 | 7.9 | 22.6 | 7.9 | 29.9 |
| 13-12606 | 42.2649 | 79.4108 | 467.9 | 1098.2 | 33.3 | 7.7 | 23.3 | 8.0 | 30.6 |
| 13-12607 | 42.2627 | 79.4037 | 501.1 | 1137.2 | 35.6 | 7.7 | 24.7 | 8.3 | 32.0 |
| 13-12609 | 42.2701 | 79.3601 | 526.4 | 1150.0 | 33.3 | 7.2 | 22.8 | 8.4 | 30.1 |
| 13-12610 | 42.2673 | 79.3993 | 503.8 | 1135.7 | 36.7 | 7.4 | 25.8 | 8.3 | 33.1 |
| 13-12611 | 42.2634 | 79.3935 | 525.5 | 1147.3 | 37.2 | 7.2 | 26.2 | 8.4 | 33.5 |
| 13-12612 | 42.2579 | 79.3945 | 518.8 | 1164.9 | 33.9 | 7.3 | 22.9 | 8.5 | 30.2 |
| 13-12614 | 42.2517 | 79.3933 | 524.3 | 1169.2 | 30.0 | 7.2 | 19.5 | 8.5 | 26.8 |
| 13-12615 | 42.2524 | 79.4150 | 474.3 | 1121.4 | 36.1 | 7.7 | 25.3 | 8.2 | 32.6 |
| 13-12616 | 42.2512 | 79.3860 | 533.4 | 1182.9 | 33.9 | 7.1 | 22.6 | 8.6 | 29.9 |
| 13-12623 | 42.3955 | 79.2135 | 468.8 | 1029.3 | 31.1 | 7.5 | 22.9 | 7.5 | 30.2 |
| 13-12624 | 42.3707 | 79.2559 | 453.8 | 1001.0 | 30.6 | 7.7 | 22.8 | 7.3 | 30.1 |
| 13-12625 | 42.3679 | 79.2631 | 478.5 | 1024.7 | 31.1 | 7.5 | 23.1 | 7.5 | 30.4 |
| 13-12654 | 42.4945 | 79.3045 | 192.3 | 615.1 | 26.1 | 10.1 | 26.0 | 4.4 | 33.1 |
| 13-12676 | 42.3434 | 79.5521 | 215.8 | 740.4 | 27.2 | 10.2 | 23.0 | 5.3 | 30.2 |
| 13-12677 | 42.3498 | 79.5524 | 208.5 | 731.8 | 26.1 | 10.2 | 21.7 | 5.3 | 28.9 |
| 13-12703 | 42.1233 | 79.6791 | 457.2 | 1226.8 | 36.1 | 8.1 | 22.8 | 8.9 | 30.1 |
| 13-12731 | 42.4179 | 79.3230 | 276.8 | 773.3 | 32.2 | 8.4 | 29.5 | 5.6 | 36.7 |
| 13-12837 | 42.4701 | 79.3218 | 205.7 | 651.7 | 27.2 | 10.0 | 26.4 | 4.6 | 33.5 |
| 13-12944 | 42.0160 | 79.3912 | 502.3 | 1391.4 | 38.3 | 7.6 | 22.1 | 10.1 | 29.3 |
| 13-12973 | 42.0578 | 79.4746 | 460.6 | 1283.8 | 36.7 | 8.0 | 22.3 | 9.3 | 29.6 |
| 13-12974 | 42.0559 | 79.4462 | 499.9 | 1308.8 | 38.3 | 7.6 | 23.5 | 9.5 | 30.7 |
| 13-12975 | 42.0622 | 79.4544 | 466.0 | 1289.6 | 34.4 | 8.0 | 20.5 | 9.4 | 27.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13-12982 | 42.0472 | 79.4739 | 467.0 | 1312.5 | 37.8 | 8.0 | 22.7 | 9.5 | 30.0 |
| 13-13043 | 42.0577 | 79.4626 | 458.1 | 1274.1 | 35.0 | 8.0 | 21.2 | 9.3 | 28.4 |
| 13-13050 | 42.4201 | 79.3488 | 245.1 | 736.1 | 30.0 | 9.7 | 27.5 | 5.3 | 34.7 |
| 13-13058 | 42.4750 | 79.3242 | 201.5 | 648.3 | 26.1 | 10.1 | 24.7 | 4.6 | 31.9 |
| 13-13545 | 42.0634 | 79.4301 | 509.3 | 1353.0 | 37.8 | 7.5 | 22.4 | 9.8 | 29.6 |
| 13-13546 | 42.2596 | 79.7369 | 213.4 | 786.4 | 38.9 | 10.4 | 36.3 | 5.7 | 43.5 |
| 13-13550 | 42.0618 | 79.4385 | 501.1 | 1324.4 | 36.1 | 7.6 | 21.5 | 9.6 | 28.8 |
| 13-13552 | 42.0708 | 79.4579 | 474.3 | 1274.1 | 36.1 | 7.9 | 22.2 | 9.3 | 29.4 |
| 13-13573 | 42.4180 | 79.3897 | 222.5 | 702.9 | 28.3 | 10.0 | 26.1 | 5.0 | 33.3 |
| 13-13576 | 42.0669 | 79.4455 | 474.3 | 1300.3 | 36.7 | 7.9 | 22.1 | 9.5 | 29.4 |
| 13-13577 | 42.0507 | 79.4247 | 450.8 | 1307.0 | 43.3 | 8.1 | 26.9 | 9.5 | 34.2 |
| 13-13603 | 42.2930 | 79.1669 | 647.7 | 1306.4 | 38.9 | 5.9 | 25.3 | 9.5 | 32.5 |
| 13-13604 | 42.3277 | 79.1882 | 632.2 | 1249.7 | 38.3 | 6.0 | 25.9 | 9.1 | 33.2 |
| 13-13642 | 42.4152 | 79.2262 | 484.0 | 1009.2 | 33.3 | 7.4 | 25.7 | 7.4 | 33.0 |
| 13-13673 | 42.0219 | 79.5177 | 469.1 | 1289.9 | 38.3 | 8.0 | 23.5 | 9.4 | 30.8 |
| 13-13755 | 42.1819 | 79.4581 | 407.5 | 1106.4 | 35.6 | 8.4 | 24.5 | 8.1 | 31.8 |
| 13-13757 | 42.2597 | 79.5447 | 422.1 | 1028.7 | 33.9 | 8.2 | 24.9 | 7.5 | 32.2 |
| 13-13758 | 42.2626 | 79.5535 | 457.2 | 1053.4 | 30.6 | 7.9 | 21.5 | 7.7 | 28.8 |
| 13-13760 | 42.2675 | 79.5646 | 426.7 | 1015.0 | 30.6 | 8.2 | 22.0 | 7.4 | 29.3 |
| 13-13762 | 42.2485 | 79.5697 | 432.8 | 1037.5 | 33.9 | 8.2 | 24.8 | 7.6 | 32.1 |
| 13-13765 | 42.2509 | 79.5369 | 411.5 | 1030.2 | 31.1 | 8.4 | 22.1 | 7.5 | 29.4 |
| 13-13778 | 42.2560 | 79.5574 | 435.9 | 1038.8 | 31.1 | 8.1 | 22.1 | 7.6 | 29.4 |
| 13-13782 | 42.2468 | 79.5470 | 451.1 | 1073.2 | 32.2 | 8.0 | 22.6 | 7.8 | 29.9 |
| 13-13854 | 42.1905 | 79.4556 | 403.9 | 1098.2 | 35.6 | 8.5 | 24.7 | 8.0 | 32.0 |
| 13-13862 | 42.1858 | 79.4545 | 402.9 | 1101.2 | 35.0 | 8.5 | 24.1 | 8.0 | 31.4 |
| 13-13887 | 42.2147 | 79.4818 | 413.0 | 1085.7 | 35.0 | 8.4 | 24.5 | 7.9 | 31.8 |
| 13-13893 | 42.1844 | 79.4639 | 408.4 | 1099.7 | 38.9 | 8.4 | 27.7 | 8.0 | 35.0 |
| 13-13907 | 42.3080 | 79.5960 | 230.1 | 784.6 | 35.6 | 10.1 | 32.5 | 5.7 | 39.7 |
| 13-13983 | 42.2747 | 79.7124 | 208.2 | 763.2 | 32.2 | 10.4 | 28.6 | 5.5 | 35.8 |
| 13-14250 | 42.2786 | 79.7056 | 207.0 | 761.7 | 28.3 | 10.4 | 23.6 | 5.5 | 30.8 |
| 13-16053 | 42.2473 | 79.6000 | 517.9 | 1179.0 | 39.4 | 7.3 | 27.2 | 8.6 | 34.5 |
| 13-16094 | 42.2492 | 79.0671 | 423.7 | 1156.1 | 41.1 | 8.1 | 28.6 | 8.4 | 35.9 |
| 13-16220 | 42.2837 | 79.4009 | 512.1 | 1131.7 | 36.7 | 7.3 | 26.0 | 8.3 | 33.3 |
| 13-16224 | 42.1005 | 79.5261 | 543.5 | 1300.3 | 38.9 | 7.2 | 24.4 | 9.5 | 31.6 |
| 15-04350 | 42.1864 | 76.5913 | 440.1 | 1039.4 | 45.6 | 7.4 | 36.7 | 7.6 | 44.0 |
| 15-10335 | 42.1690 | 76.6744 | 437.1 | 1078.8 | 47.8 | 7.5 | 24.0 | 12.0 | 31.1 |
| 15-11931 | 42.0748 | 76.5941 | 396.5 | 1297.2 | 40.6 | 7.9 | 25.2 | 9.4 | 32.4 |
| 17-10607 | 42.4512 | 75.4851 | 528.8 | 1611.2 | 32.8 | 6.1 | 16.5 | 11.5 | 23.7 |
| 17-10608 | 42.3172 | 75.6714 | 431.3 | 2008.6 | 43.3 | 7.3 | 18.0 | 13.9 | 24.9 |
| 23-04714 | 42.5163 | 76.0017 | 484.3 | 2521.0 | 57.2 | 6.5 | 20.1 | 16.4 | 26.6 |
| 25-04364 | 42.3163 | 75.2678 | 509.3 | 2355.5 | 43.3 | 6.5 | 15.7 | 15.7 | 22.3 |
| 25-04379 | 42.2736 | 74.6278 | 563.0 | 2753.9 | 50.6 | 5.9 | 16.2 | 17.3 | 22.5 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 25-4455 | 42.3905 | 75.0445 | 456.6 | 2417.7 | 62.2 | 6.9 | 22.9 | 15.9 | 29.5 |
| 25-8578 | 41.9111 | 74.8758 | 554.4 | 3043.7 | 63.9 | 6.2 | 18.9 | 18.1 | 24.9 |
| 25-10227 | 42.3000 | 74.8250 | 613.6 | 2055.3 | 46.1 | 5.4 | 19.8 | 14.2 | 26.7 |
| 25-10263 | 42.4424 | 74.6200 | 642.5 | 1304.5 | 37.2 | 5.0 | 24.7 | 9.5 | 32.0 |
| 25-10838 | 42.3290 | 75.3750 | 370.3 | 1778.5 | 39.4 | 7.8 | 17.8 | 12.6 | 24.9 |
| 29-6668 | 42.8031 | 78.8444 | 180.7 | 1314.6 | 40.0 | 9.6 | 23.1 | 9.6 | 30.4 |
| 29-6718 | 42.7094 | 78.9438 | 213.4 | 453.5 | 23.3 | 9.5 | 30.5 | 3.1 | 37.3 |
| 29-6918 | 42.6982 | 78.9518 | 214.0 | 445.9 | 18.3 | 9.5 | 19.8 | 3.0 | 26.6 |
| 29-6925 | 42.7119 | 78.9698 | 194.2 | 419.1 | 17.8 | 9.7 | 19.3 | 2.8 | 26.0 |
| 29-8862 | 42.6605 | 79.0540 | 178.9 | 470.6 | 21.1 | 9.9 | 23.8 | 3.2 | 30.6 |
| 29-8881 | 42.7383 | 78.8982 | 212.4 | 459.9 | 16.1 | 9.4 | 14.5 | 3.1 | 21.3 |
| 29-8882 | 42.6747 | 79.0400 | 180.4 | 459.3 | 20.0 | 9.9 | 22.0 | 3.1 | 28.8 |
| 29-9196 | 42.6661 | 79.0487 | 178.6 | 469.1 | 22.2 | 9.9 | 26.2 | 3.2 | 33.0 |
| 29-9938 | 42.7412 | 78.8946 | 209.1 | 438.0 | 21.7 | 9.5 | 27.9 | 3.0 | 34.6 |
| 29-9958 | 42.8454 | 78.8350 | 177.7 | 329.5 | 18.3 | 9.6 | 26.6 | 2.1 | 33.0 |
| 29-10836 | 42.6650 | 78.5609 | 322.5 | 666.9 | 31.1 | 8.4 | 34.1 | 4.8 | 41.2 |
| 29-10960 | 42.8566 | 78.7847 | 160.0 | 609.6 | 26.7 | 9.7 | 27.8 | 4.3 | 34.9 |
| 29-11002 | 42.5575 | 78.7441 | 512.7 | 1909.6 | 53.3 | 6.7 | 24.4 | 13.3 | 31.4 |
| 29-11114 | 42.5976 | 78.9843 | 246.9 | 1469.7 | 39.4 | 9.3 | 20.5 | 10.6 | 27.7 |
| 29-11183 | 42.8456 | 78.8332 | 176.8 | 347.8 | 23.3 | 9.6 | 39.6 | 2.2 | 46.0 |
| 29-11447 | 42.8783 | 78.8107 | 185.6 | 339.5 | 23.3 | 9.4 | 41.0 | 2.2 | 47.4 |
| 29-11510 | 42.5869 | 78.7002 | 328.6 | 790.7 | 25.0 | 8.5 | 20.9 | 5.7 | 28.1 |
| 29-11645 | 42.5867 | 79.0067 | 228.6 | 615.1 | 20.6 | 9.5 | 17.9 | 4.4 | 25.0 |
| 29-11728 | 42.5695 | 78.7346 | 509.6 | 962.3 | 32.2 | 6.7 | 26.5 | 7.0 | 33.8 |
| 29-11730 | 42.7142 | 78.5180 | 431.9 | 1688.9 | 42.8 | 7.2 | 21.1 | 12.0 | 28.2 |
| 29-11951 | 42.5511 | 78.7330 | 465.7 | 950.1 | 22.8 | 7.2 | 16.4 | 6.9 | 23.7 |
| 29-11975 | 42.5578 | 78.7436 | 451.1 | 932.4 | 22.2 | 7.3 | 16.0 | 6.8 | 23.2 |
| 29-12287 | 42.5929 | 79.1057 | 191.4 | 556.0 | 25.6 | 9.9 | 28.1 | 3.9 | 35.1 |
| 29-12288 | 42.5921 | 79.0973 | 192.9 | 558.1 | 26.7 | 9.9 | 30.0 | 3.9 | 37.0 |
| 29-12289 | 42.5884 | 79.1137 | 183.2 | 554.4 | 26.7 | 10.0 | 30.0 | 3.9 | 37.0 |
| 29-12290 | 42.5870 | 79.0540 | 204.5 | 574.9 | 24.4 | 9.8 | 25.5 | 4.0 | 32.5 |
| 29-12292 | 42.5929 | 79.0650 | 199.3 | 586.7 | 25.6 | 9.8 | 26.8 | 4.1 | 33.8 |
| 29-12350 | 42.5910 | 78.7153 | 330.7 | 763.5 | 26.1 | 8.5 | 23.1 | 5.5 | 30.3 |
| 29-12359 | 42.7160 | 78.8787 | 234.7 | 506.0 | 18.3 | 9.2 | 18.0 | 3.5 | 24.9 |
| 29-12383 | 42.8273 | 78.6392 | 249.9 | 460.6 | 17.2 | 8.8 | 18.2 | 3.1 | 25.0 |
| 29-12403 | 42.5354 | 78.5109 | 427.0 | 980.5 | 33.3 | 7.5 | 26.3 | 7.1 | 33.6 |
| 29-12450 | 42.7405 | 78.5181 | 359.1 | 678.2 | 25.6 | 7.9 | 26.1 | 4.8 | 33.2 |
| 29-12452 | 42.7406 | 78.5043 | 326.1 | 659.9 | 26.7 | 8.2 | 28.0 | 4.7 | 35.1 |
| 29-12459 | 42.4564 | 78.8099 | 293.2 | 876.3 | 30.6 | 9.0 | 24.5 | 6.4 | 31.8 |
| 29-12465 | 42.5740 | 79.0521 | 198.1 | 585.5 | 21.1 | 9.9 | 19.2 | 4.1 | 26.2 |
| 29-12641 | 42.8948 | 78.7206 | 220.1 | 394.7 | 23.3 | 9.1 | 36.0 | 2.6 | 42.6 |
| 29-12719 | 42.8458 | 78.6708 | 227.1 | 421.5 | 16.1 | 9.0 | 16.8 | 2.8 | 23.5 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 29-12745 | 42.5792 | 78.7203 | 444.4 | 1679.8 | 43.9 | 7.4 | 21.7 | 12.0 | 28.9 |
| 29-12778 | 42.8451 | 78.6839 | 227.1 | 424.9 | 17.8 | 9.0 | 20.6 | 2.9 | 27.3 |
| 29-12782 | 42.8528 | 78.6614 | 231.6 | 424.3 | 17.8 | 9.0 | 20.8 | 2.8 | 27.5 |
| 29-12783 | 42.8591 | 78.6713 | 213.4 | 394.1 | 16.7 | 9.1 | 19.1 | 2.6 | 25.7 |
| 29-12784 | 42.8432 | 78.6615 | 228.6 | 424.6 | 18.3 | 9.0 | 22.0 | 2.9 | 28.7 |
| 29-12800 | 42.9639 | 78.6154 | 228.6 | 340.8 | 15.6 | 8.8 | 19.9 | 2.2 | 26.3 |
| 29-12806 | 42.5718 | 78.9308 | 349.0 | 767.2 | 23.3 | 8.4 | 19.5 | 5.5 | 26.7 |
| 29-12819 | 42.8822 | 78.6390 | 180.1 | 338.3 | 17.8 | 9.4 | 24.7 | 2.2 | 31.1 |
| 29-12910 | 42.4665 | 78.8036 | 353.6 | 1777.6 | 48.9 | 8.4 | 22.8 | 12.6 | 29.8 |
| 29-12970 | 42.5282 | 78.7288 | 429.8 | 908.5 | 30.0 | 7.6 | 24.6 | 6.6 | 31.9 |
| 29-12983 | 42.5376 | 78.7195 | 470.9 | 967.1 | 27.8 | 7.2 | 21.3 | 7.0 | 28.6 |
| 29-12985 | 42.5327 | 78.7146 | 457.2 | 953.7 | 30.6 | 7.3 | 24.4 | 6.9 | 31.7 |
| 29-13000 | 42.6304 | 78.9151 | 260.9 | 618.7 | 25.0 | 9.1 | 25.6 | 4.4 | 32.7 |
| 29-13113 | 42.5875 | 79.0205 | 228.6 | 611.4 | 22.2 | 9.6 | 20.7 | 4.3 | 27.8 |
| 29-13271 | 42.9471 | 78.5119 | 277.7 | 392.6 | 20.0 | 8.3 | 29.8 | 2.6 | 36.4 |
| 29-13316 | 42.9240 | 78.4861 | 256.0 | 409.3 | 16.7 | 8.5 | 19.8 | 2.7 | 26.5 |
| 29-13625 | 42.5079 | 78.7548 | 426.7 | 938.8 | 33.9 | 7.6 | 27.9 | 6.8 | 35.2 |
| 29-13702 | 42.8359 | 78.8233 | 179.8 | 329.5 | 15.6 | 9.5 | 18.2 | 2.1 | 24.6 |
| 29-13707 | 42.6186 | 79.0640 | 185.9 | 532.5 | 29.4 | 9.9 | 36.6 | 3.7 | 43.6 |
| 29-13812 | 42.7983 | 78.6152 | 275.8 | 525.8 | 31.1 | 8.6 | 42.8 | 3.7 | 49.7 |
| 29-13859 | 42.8288 | 78.6624 | 239.3 | 448.1 | 18.3 | 8.9 | 21.0 | 3.0 | 27.8 |
| 29-15388 | 42.7870 | 78.6906 | 271.3 | 523.6 | 26.7 | 8.7 | 34.3 | 3.6 | 41.2 |
| 29-15742 | 42.5053 | 78.6314 | 408.1 | 963.8 | 33.3 | 7.8 | 26.5 | 7.0 | 33.8 |
| 29-15761 | 42.5008 | 78.6483 | 408.4 | 965.9 | 32.8 | 7.8 | 25.8 | 7.0 | 33.1 |
| 29-15808 | 42.5170 | 78.6291 | 430.7 | 975.4 | 33.9 | 7.6 | 27.0 | 7.1 | 34.3 |
| 29-15831 | 42.7565 | 78.6910 | 298.7 | 553.8 | 18.3 | 8.5 | 17.8 | 3.9 | 24.8 |
| 29-15916 | 42.5278 | 78.6957 | 499.9 | 1011.9 | 28.3 | 6.9 | 21.2 | 7.4 | 28.5 |
| 29-15957 | 42.7694 | 78.5891 | 308.5 | 580.3 | 18.9 | 8.3 | 18.2 | 4.1 | 25.2 |
| 37- 9343 | 43.0417 | 78.4002 | 239.9 | 259.1 | 16.1 | 8.4 | 29.6 | 1.5 | 35.5 |
| 37- 9344 | 43.0407 | 78.3802 | 263.0 | 275.8 | 18.3 | 8.2 | 36.7 | 1.7 | 42.7 |
| 37- 9345 | 43.0407 | 78.3705 | 261.2 | 283.8 | 19.4 | 8.2 | 39.6 | 1.7 | 45.6 |
| 37- 9346 | 43.0478 | 78.3607 | 271.3 | 284.7 | 18.3 | 8.1 | 35.9 | 1.7 | 42.0 |
| 37-11609 | 42.9112 | 78.4341 | 283.5 | 438.9 | 24.4 | 8.3 | 36.8 | 3.0 | 43.6 |
| 37-11610 | 43.0174 | 78.3101 | 267.6 | 341.1 | 13.3 | 8.2 | 15.1 | 2.2 | 21.5 |
| 37-11621 | 42.8991 | 78.4193 | 286.5 | 463.9 | 20.0 | 8.3 | 25.3 | 3.2 | 32.1 |
| 37-11623 | 42.8919 | 78.4091 | 300.2 | 484.0 | 14.4 | 8.2 | 13.0 | 3.3 | 19.9 |
| 37-11699 | 42.8784 | 78.4250 | 291.4 | 511.5 | 21.1 | 8.3 | 25.1 | 3.5 | 32.0 |
| 37-11742 | 42.8870 | 78.4210 | 321.9 | 501.4 | 20.0 | 8.0 | 24.0 | 3.5 | 30.9 |
| 37-11776 | 42.8968 | 78.4076 | 295.7 | 488.3 | 21.7 | 8.2 | 27.6 | 3.4 | 34.5 |
| 37-11777 | 42.9007 | 78.4035 | 304.5 | 490.1 | 13.9 | 8.1 | 11.8 | 3.4 | 18.7 |
| 37-11778 | 42.8992 | 78.3973 | 295.7 | 504.4 | 13.3 | 8.2 | 10.2 | 3.5 | 17.1 |
| 37-11932 | 42.9396 | 78.3222 | 289.0 | 417.9 | 17.2 | 8.1 | 21.7 | 2.8 | 28.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 37-12059 | 42.9318 | 78.3224 | 282.2 | 430.1 | 16.1 | 8.2 | 18.3 | 2.9 | 25.1 |
| 37-12135 | 42.9452 | 78.3224 | 279.5 | 409.7 | 15.0 | 8.2 | 16.5 | 2.7 | 23.2 |
| 37-12408 | 42.9613 | 78.3167 | 284.1 | 396.2 | 13.9 | 8.2 | 14.5 | 2.6 | 21.1 |
| 37-12564 | 42.8445 | 78.4944 | 309.7 | 534.6 | 22.8 | 8.2 | 27.3 | 3.7 | 34.3 |
| 37-12848 | 42.8959 | 78.3903 | 285.6 | 483.1 | 18.9 | 8.3 | 21.9 | 3.3 | 28.8 |
| 37-12891 | 42.9468 | 78.3149 | 280.7 | 408.7 | 15.0 | 8.2 | 16.6 | 2.7 | 23.3 |
| 37-12892 | 42.9391 | 78.3160 | 286.8 | 417.6 | 15.0 | 8.2 | 16.4 | 2.8 | 23.0 |
| 37-12893 | 42.9306 | 78.3333 | 281.6 | 417.6 | 16.7 | 8.2 | 20.2 | 2.8 | 26.9 |
| 37-12894 | 42.9390 | 78.3358 | 288.3 | 417.6 | 13.9 | 8.2 | 13.7 | 2.8 | 20.4 |
| 37-12895 | 42.9548 | 78.3172 | 276.8 | 394.1 | 16.7 | 8.2 | 21.4 | 2.6 | 28.0 |
| 37-13248 | 42.9383 | 78.3417 | 280.4 | 386.8 | 16.1 | 8.2 | 20.4 | 2.5 | 26.9 |
| 37-13249 | 42.9458 | 78.3337 | 277.4 | 366.5 | 19.4 | 8.3 | 29.0 | 2.5 | 35.5 |
| 37-13250 | 42.9448 | 78.3427 | 273.1 | 379.2 | 21.1 | 8.3 | 33.8 | 2.5 | 40.4 |
| 37-13672 | 42.9836 | 77.9518 | 243.8 | 1281.1 | 40.6 | 8.4 | 25.1 | 9.3 | 32.4 |
| 37-15896 | 42.9038 | 78.4266 | 286.5 | 449.6 | 16.1 | 8.3 | 17.4 | 3.0 | 24.2 |
| 51-4138 | 42.8090 | 77.9518 | 298.1 | 634.0 | 17.8 | 8.2 | 15.1 | 4.5 | 22.2 |
| 51-4363 | 42.8618 | 77.8151 | 188.4 | 489.2 | 17.8 | 9.2 | 17.6 | 3.4 | 24.5 |
| 51-4630 | 42.6505 | 77.7562 | 186.5 | 1943.4 | 47.2 | 9.5 | 19.4 | 13.5 | 26.4 |
| 51-5061 | 42.8534 | 77.8169 | 185.6 | 514.2 | 17.2 | 9.2 | 15.6 | 3.6 | 22.5 |
| 51-11403 | 42.7259 | 77.9529 | 337.4 | 791.6 | 30.0 | 8.0 | 27.8 | 5.7 | 35.0 |
| 51-12706 | 42.7865 | 77.8685 | 177.4 | 199.9 | 18.9 | 9.4 | 47.3 | 1.0 | 52.5 |
| 51-13700 | 42.6972 | 77.8919 | 271.3 | 1942.8 | 47.8 | 8.7 | 20.1 | 13.5 | 27.1 |
| 51-13841 | 42.7350 | 77.9529 | 326.1 | 804.7 | 26.4 | 8.1 | 26.5 | 5.8 | 33.8 |
| 51-14178 | 42.7239 | 77.9724 | 332.5 | 788.8 | 28.1 | 8.0 | 22.9 | 5.7 | 30.1 |
| 53-4500 | 42.8130 | 75.6439 | 511.5 | 1024.7 | 33.9 | 5.8 | 27.4 | 7.5 | 34.7 |
| 53-9578 | 42.9511 | 75.8079 | 417.6 | 1492.3 | 44.4 | 6.5 | 25.4 | 10.8 | 32.6 |
| 55-4502 | 43.3309 | 77.9649 | 95.1 | 666.0 | 38.3 | 9.1 | 43.9 | 4.8 | 51.1 |
| 55-9540 | 43.1890 | 78.0387 | 185.0 | 874.8 | 25.6 | 8.6 | 19.4 | 6.4 | 26.7 |
| 63-6667 | 43.2076 | 78.4561 | 167.6 | 878.7 | 30.6 | 8.8 | 24.8 | 6.4 | 32.1 |
| 63-6669 | 43.0799 | 79.0068 | 174.3 | 935.7 | 31.7 | 9.1 | 24.1 | 6.8 | 31.4 |
| 65-11950 | 43.2929 | 75.2747 | 286.4 | 222.2 | 14.4 | 7.2 | 32.6 | 1.2 | 38.1 |
| 65-16018 | 42.9235 | 75.4223 | 409.7 | 545.6 | 21.1 | 6.6 | 26.6 | 3.8 | 33.6 |
| 67-11654 | 42.8984 | 76.2386 | 420.3 | 931.5 | 28.9 | 6.6 | 23.9 | 6.8 | 31.2 |
| 67-11655 | 42.9450 | 76.3079 | 347.5 | 794.6 | 26.7 | 7.2 | 24.5 | 5.7 | 31.7 |
| 67-11946 | 42.9642 | 76.2260 | 293.8 | 707.7 | 24.4 | 7.7 | 23.6 | 5.1 | 30.8 |
| 67-12148 | 42.7894 | 76.1736 | 559.6 | 1268.9 | 38.9 | 5.4 | 26.4 | 9.2 | 33.7 |
| 67-12163 | 42.9369 | 76.3459 | 306.6 | 1274.4 | 37.2 | 7.6 | 23.2 | 9.3 | 30.5 |
| 69-3859 | 42.7917 | 77.4570 | 431.0 | 901.3 | 34.4 | 6.9 | 30.6 | 6.6 | 37.9 |
| 69-3929 | 42.7743 | 77.4728 | 318.5 | 809.2 | 33.3 | 8.0 | 31.3 | 5.9 | 38.6 |
| 69-3930 | 42.7889 | 77.4744 | 364.2 | 843.4 | 27.2 | 7.5 | 23.4 | 6.1 | 30.6 |
| 69-3931 | 42.7806 | 77.4654 | 417.9 | 891.5 | 31.7 | 7.0 | 27.7 | 6.5 | 34.9 |
| 69-3945 | 42.8430 | 77.4717 | 354.5 | 823.0 | 32.2 | 7.5 | 30.0 | 6.0 | 37.3 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 69-3947 | 42.7878 | 77.4841 | 307.5 | 788.2 | 28.3 | 8.1 | 25.7 | 5.7 | 32.9 |
| 69-3964 | 42.7670 | 77.4946 | 324.9 | 410.0 | 18.9 | 7.9 | 26.7 | 2.7 | 33.4 |
| 69-3971 | 42.7851 | 77.4931 | 285.9 | 765.0 | 29.4 | 8.3 | 27.6 | 5.5 | 34.9 |
| 69-3976 | 42.7971 | 77.4548 | 452.3 | 915.0 | 33.9 | 6.6 | 29.8 | 6.7 | 37.1 |
| 69-3978 | 42.8136 | 77.4632 | 443.8 | 904.3 | 33.9 | 6.7 | 30.1 | 6.6 | 37.3 |
| 69-3985 | 42.7946 | 77.4714 | 423.1 | 889.1 | 32.8 | 6.9 | 29.1 | 6.5 | 36.3 |
| 69-3991 | 42.7762 | 77.4563 | 405.7 | 886.7 | 32.8 | 7.1 | 28.9 | 6.4 | 36.2 |
| 69-3997 | 42.7985 | 77.5086 | 296.9 | 703.5 | 34.4 | 8.2 | 37.3 | 5.0 | 44.5 |
| 69-4005 | 42.8015 | 77.4935 | 335.9 | 791.0 | 28.9 | 7.8 | 26.7 | 5.7 | 33.9 |
| 69-4023 | 42.7990 | 77.4849 | 351.1 | 807.7 | 29.4 | 7.6 | 27.0 | 5.8 | 34.2 |
| 69-4027 | 42.7917 | 77.4212 | 466.3 | 937.6 | 35.0 | 6.5 | 30.4 | 6.8 | 37.7 |
| 69-4036 | 42.8095 | 77.4946 | 312.4 | 752.2 | 26.7 | 8.0 | 24.8 | 5.4 | 32.0 |
| 69-4040 | 42.8012 | 77.4752 | 394.4 | 848.6 | 30.0 | 7.2 | 26.9 | 6.2 | 34.1 |
| 69-11428 | 42.8972 | 77.1139 | 245.1 | 646.5 | 30.0 | 8.4 | 33.4 | 4.6 | 40.5 |
| 69-12393 | 42.7715 | 77.4957 | 322.8 | 347.2 | 17.8 | 8.0 | 28.3 | 2.2 | 34.7 |
| 73-5086 | 43.3080 | 78.0340 | 115.8 | 746.8 | 25.6 | 8.9 | 22.3 | 5.4 | 29.5 |
| 75-9540 | 43.1890 | 78.0387 | 185.0 | 874.8 | 25.6 | 8.6 | 19.4 | 6.4 | 26.7 |
| 77-12398 | 43.4868 | 76.1890 | 119.8 | 556.0 | 23.3 | 8.2 | 27.3 | 3.9 | 34.3 |
| 77-12399 | 43.5087 | 76.1958 | 103.6 | 544.1 | 18.3 | 8.3 | 18.5 | 3.8 | 25.5 |
| 77-12406 | 43.5019 | 76.2001 | 100.6 | 546.5 | 22.8 | 8.3 | 26.5 | 3.8 | 33.4 |
| 79-10138 | 42.6935 | 75.0950 | 499.9 | 830.0 | 28.9 | 6.1 | 27.5 | 6.0 | 34.7 |
| 97-11921 | 42.3328 | 77.0291 | 449.9 | 882.4 | 28.3 | 7.2 | 23.9 | 6.4 | 31.2 |
| 97-12859 | 42.4088 | 76.8977 | 248.4 | 896.7 | 27.8 | 9.1 | 20.8 | 6.5 | 28.1 |
| 97-13796 | 42.3888 | 76.9325 | 426.1 | 740.7 | 24.4 | 7.4 | 23.0 | 5.3 | 30.2 |
| 99-4158 | 42.9177 | 76.8626 | 152.4 | 492.9 | 17.8 | 9.3 | 17.3 | 3.4 | 24.2 |
| 99-4203 | 42.8763 | 76.8590 | 165.5 | 1689.8 | 48.9 | 9.2 | 23.5 | 12.0 | 30.6 |
| 99-4544 | 42.8689 | 76.9264 | 152.1 | 632.2 | 37.2 | 9.4 | 44.1 | 4.5 | 51.2 |
| 99-4590 | 42.8564 | 76.8826 | 165.8 | 626.7 | 32.2 | 9.2 | 36.7 | 4.4 | 43.8 |
| 99-4600 | 42.8744 | 76.9223 | 152.4 | 631.9 | 26.7 | 9.4 | 27.4 | 4.5 | 34.5 |
| 99-4814 | 42.8947 | 76.7875 | 144.8 | 565.1 | 30.0 | 9.4 | 36.5 | 4.0 | 43.5 |
| 99-11666 | 42.8452 | 76.7874 | 176.2 | 641.3 | 27.8 | 9.2 | 29.0 | 4.6 | 36.2 |
| 99-11708 | 42.8386 | 76.7790 | 178.3 | 661.4 | 30.0 | 9.1 | 31.5 | 4.7 | 38.7 |
| 99-12051 | 42.8481 | 76.8079 | 167.3 | 814.4 | 33.3 | 9.2 | 29.6 | 5.9 | 36.8 |
| 99-12052 | 42.8545 | 76.7945 | 240.2 | 683.1 | 25.6 | 8.5 | 25.0 | 4.9 | 32.1 |
| 99-12053 | 42.8580 | 76.8018 | 170.4 | 675.7 | 24.4 | 9.2 | 22.6 | 4.8 | 29.7 |
| 99-13676 | 42.8555 | 76.8374 | 164.9 | 699.5 | 23.3 | 9.3 | 20.1 | 5.0 | 27.3 |
| 99-13689 | 42.8484 | 76.8473 | 178.0 | 719.9 | 28.3 | 9.1 | 26.7 | 5.2 | 33.8 |
| 101-291 | 42.0039 | 77.6173 | 631.9 | 1531.9 | 48.9 | 5.8 | 28.1 | 11.0 | 35.3 |
| 101-5123 | 42.1158 | 77.5806 | 687.9 | 1448.7 | 28.9 | 5.2 | 16.3 | 10.5 | 23.6 |
| 101-8318 | 42.2363 | 77.5155 | 650.1 | 1338.7 | 40.0 | 5.5 | 25.8 | 9.7 | 33.1 |
| 101-8348 | 42.2778 | 77.4176 | 500.2 | 1156.7 | 40.6 | 6.9 | 29.1 | 8.4 | 36.4 |
| 101-9582 | 42.2779 | 77.4222 | 546.9 | 1184.1 | 34.4 | 6.4 | 23.7 | 8.6 | 31.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|-----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 101-10024 | 42.4430 | 77.6059 | 626.7 | 1051.0 | 30.0 | 5.5 | 23.3 | 7.7 | 30.6 |
| 101-10246 | 42.2014 | 77.6554 | 642.5 | 1406.3 | 41.7 | 5.6 | 25.6 | 10.2 | 32.9 |
| 101-10259 | 42.2442 | 77.2167 | 325.8 | 887.3 | 28.9 | 8.6 | 22.9 | 6.5 | 30.2 |
| 101-11027 | 42.4634 | 77.3172 | 447.1 | 811.7 | 33.9 | 7.2 | 32.9 | 5.9 | 40.2 |
| 101-11105 | 42.2203 | 77.5426 | 649.8 | 1375.6 | 43.3 | 5.5 | 27.5 | 10.0 | 34.8 |
| 101-11126 | 42.2706 | 77.6400 | 477.0 | 1118.6 | 32.8 | 7.2 | 22.9 | 8.2 | 30.2 |
| 101-11162 | 42.2069 | 77.2508 | 462.1 | 1079.6 | 27.8 | 7.3 | 19.0 | 7.9 | 26.3 |
| 101-11561 | 42.4499 | 77.1976 | 360.9 | 679.7 | 30.0 | 8.0 | 32.4 | 4.9 | 39.5 |
| 101-11570 | 42.4753 | 77.2189 | 417.0 | 698.9 | 25.0 | 7.4 | 25.1 | 5.0 | 32.3 |
| 101-11754 | 42.3668 | 77.7256 | 548.9 | 1056.1 | 30.6 | 6.4 | 22.9 | 7.7 | 30.2 |
| 101-11781 | 42.3056 | 77.1636 | 536.8 | 991.8 | 35.0 | 6.4 | 28.8 | 7.2 | 36.1 |
| 101-11983 | 42.2235 | 77.5685 | 444.7 | 1147.3 | 31.7 | 7.5 | 21.1 | 8.4 | 28.4 |
| 101-12075 | 42.4494 | 77.6259 | 535.8 | 974.1 | 29.4 | 6.4 | 23.7 | 7.1 | 31.0 |
| 101-12179 | 42.2545 | 77.5033 | 540.4 | 1216.2 | 37.8 | 6.5 | 25.7 | 8.9 | 33.0 |
| 101-12402 | 42.3167 | 77.3822 | 525.2 | 1791.6 | 47.2 | 6.6 | 22.7 | 12.7 | 29.7 |
| 101-12765 | 42.1980 | 77.6656 | 670.6 | 1417.6 | 37.8 | 5.3 | 22.9 | 10.3 | 30.1 |
| 101-12960 | 42.3711 | 77.3893 | 407.8 | 911.0 | 27.8 | 7.7 | 22.1 | 6.6 | 29.3 |
| 101-12972 | 42.2341 | 77.3689 | 590.1 | 1271.6 | 35.6 | 6.0 | 23.2 | 9.3 | 30.5 |
| 101-13011 | 42.0266 | 77.5871 | 557.2 | 1516.7 | 42.8 | 6.6 | 23.9 | 10.9 | 31.1 |
| 101-13578 | 42.1551 | 77.6962 | 702.3 | 1497.2 | 43.3 | 5.1 | 25.6 | 10.8 | 32.8 |
| 101-13690 | 42.0867 | 77.6140 | 701.3 | 1534.7 | 46.1 | 5.1 | 26.7 | 11.0 | 33.9 |
| 101-13699 | 42.4662 | 77.2654 | 571.5 | 2989.5 | 67.8 | 5.9 | 20.7 | 18.0 | 26.7 |
| 101-14570 | 42.0762 | 77.5024 | 662.6 | 1493.8 | 40.0 | 5.5 | 23.1 | 10.8 | 30.3 |
| 107- 9557 | 42.1461 | 76.3373 | 457.8 | 1567.0 | 41.1 | 7.2 | 21.6 | 11.2 | 28.8 |
| 107- 9848 | 42.0759 | 76.4522 | 399.0 | 1593.5 | 70.0 | 7.9 | 39.0 | 11.4 | 46.2 |
| 109-10243 | 42.4010 | 76.6685 | 566.0 | 1119.8 | 32.2 | 6.0 | 23.4 | 8.2 | 30.7 |
| 109-12149 | 42.5978 | 76.2951 | 486.8 | 1386.8 | 41.1 | 6.4 | 25.0 | 10.0 | 32.2 |
| 117- 5032 | 43.0592 | 76.8405 | 146.6 | 1194.2 | 35.6 | 9.0 | 22.2 | 8.7 | 29.5 |
| 121- 4408 | 42.9278 | 76.8869 | 153.0 | 498.3 | 24.4 | 9.2 | 30.5 | 3.4 | 37.4 |
| 121- 7278 | 42.7975 | 78.0912 | 323.4 | 1516.4 | 45.6 | 8.0 | 24.7 | 10.9 | 31.9 |
| 121- 9524 | 42.8167 | 78.2442 | 287.1 | 1247.2 | 32.2 | 8.4 | 19.1 | 9.1 | 26.4 |
| 121-10917 | 42.7612 | 78.4439 | 480.7 | 681.5 | 35.0 | 6.6 | 41.6 | 4.9 | 48.8 |
| 121-10939 | 42.7668 | 78.4179 | 460.6 | 1652.0 | 42.2 | 6.8 | 21.4 | 11.8 | 28.6 |
| 121-11311 | 42.7552 | 78.3473 | 542.5 | 872.0 | 28.3 | 6.0 | 25.6 | 6.3 | 32.9 |
| 121-11312 | 42.8119 | 78.1936 | 501.4 | 815.3 | 18.9 | 6.3 | 15.5 | 5.9 | 22.7 |
| 121-11989 | 42.6775 | 78.0794 | 477.9 | 1015.0 | 33.9 | 6.7 | 26.8 | 7.4 | 34.1 |
| 121-12178 | 42.7908 | 78.1753 | 461.2 | 1625.2 | 58.3 | 6.7 | 31.8 | 11.6 | 38.9 |
| 121-12721 | 42.8421 | 78.1717 | 342.3 | 422.5 | 23.9 | 7.8 | 38.1 | 2.8 | 44.8 |
| 121-12724 | 42.8432 | 78.1690 | 350.8 | 424.3 | 19.4 | 7.7 | 27.7 | 2.8 | 34.4 |
| 121-13082 | 42.7059 | 78.3668 | 493.8 | 876.0 | 24.4 | 6.6 | 20.4 | 6.4 | 27.7 |
| 121-13083 | 42.6124 | 78.4346 | 464.8 | 960.7 | 27.8 | 7.0 | 21.8 | 6.9 | 29.1 |
| 121-13084 | 42.6510 | 78.4193 | 419.1 | 868.7 | 25.6 | 7.4 | 20.9 | 6.3 | 28.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|-----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 121-13085 | 42.6107 | 78.3293 | 536.4 | 1058.3 | 28.3 | 6.3 | 20.8 | 7.7 | 28.1 |
| 121-13241 | 42.6571 | 78.1939 | 524.0 | 1048.5 | 31.7 | 6.3 | 24.2 | 7.7 | 31.5 |
| 121-13268 | 42.5814 | 78.1805 | 494.1 | 1070.2 | 31.1 | 6.7 | 22.8 | 7.8 | 30.1 |
| 121-13308 | 42.5279 | 78.1414 | 485.5 | 1133.2 | 33.3 | 6.9 | 23.3 | 8.3 | 30.6 |
| 121-13662 | 42.7708 | 78.0863 | 448.4 | 826.6 | 25.0 | 6.9 | 22.0 | 6.0 | 29.2 |
| 121-13664 | 42.7687 | 78.0235 | 450.5 | 816.6 | 28.9 | 6.8 | 27.0 | 5.9 | 34.3 |
| 121-13666 | 42.7610 | 78.0142 | 443.5 | 835.2 | 26.1 | 6.9 | 23.0 | 6.1 | 30.3 |
| 121-13725 | 42.6462 | 78.4157 | 437.4 | 887.0 | 28.3 | 7.2 | 23.8 | 6.4 | 31.0 |
| 121-13790 | 42.5988 | 78.3792 | 515.4 | 1043.0 | 29.4 | 6.5 | 22.0 | 7.6 | 29.2 |
| 121-13891 | 42.7797 | 78.0482 | 463.3 | 818.7 | 26.7 | 6.7 | 24.4 | 5.9 | 31.7 |
| 121-13892 | 42.7587 | 78.0845 | 451.7 | 822.7 | 28.3 | 6.8 | 26.1 | 6.0 | 33.4 |
| 121-13919 | 42.7587 | 78.0772 | 456.3 | 830.9 | 25.0 | 6.8 | 21.9 | 6.0 | 29.2 |
| 121-15545 | 42.6893 | 78.0917 | 450.2 | 909.2 | 26.7 | 7.0 | 21.7 | 6.6 | 28.9 |
| 121-15933 | 42.7278 | 78.0010 | 419.4 | 894.0 | 30.0 | 7.2 | 25.5 | 6.5 | 32.8 |
| 121-16016 | 42.8574 | 78.3902 | 366.7 | 565.7 | 21.1 | 7.6 | 23.9 | 4.0 | 31.0 |
| 123-12812 | 42.5839 | 76.9422 | 225.9 | 419.7 | 22.2 | 9.1 | 31.2 | 2.8 | 37.9 |
| 123-12813 | 42.5884 | 76.9539 | 244.1 | 437.1 | 20.6 | 8.9 | 26.6 | 2.9 | 33.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 15- 2 | 41.7838 | 76.3252 | 420.6 | 2012.9 | 42.8 | 7.7 | 17.4 | 13.9 | 24.3 |
| 15- 7 | 41.8725 | 76.2655 | 407.2 | 1402.1 | 40.6 | 7.8 | 23.3 | 10.2 | 30.6 |
| 15- 41 | 41.7839 | 76.3258 | 417.9 | 2012.9 | 46.1 | 7.8 | 19.0 | 13.9 | 26.0 |
| 15- 42 | 41.8764 | 76.2725 | 403.3 | 1402.1 | 36.7 | 7.9 | 20.5 | 10.2 | 27.8 |
| 39- 429 | 41.8335 | 80.0188 | 415.7 | 1314.9 | 33.3 | 8.8 | 18.7 | 9.6 | 25.9 |
| 39-20466 | 41.8160 | 79.6533 | 550.5 | 1593.5 | 43.3 | 7.4 | 22.6 | 11.4 | 29.7 |
| 39-20500 | 41.8069 | 80.1026 | 357.8 | 1241.1 | 36.7 | 9.4 | 22.0 | 9.0 | 29.2 |
| 39-20501 | 41.7910 | 80.1042 | 381.6 | 1272.5 | 36.1 | 9.2 | 21.2 | 9.3 | 28.4 |
| 39-20502 | 41.8019 | 80.0909 | 362.7 | 1254.6 | 35.0 | 9.4 | 20.4 | 9.1 | 27.7 |
| 49- 49 | 42.2799 | 79.8997 | 184.1 | 1445.1 | 45.6 | 10.7 | 24.1 | 10.4 | 31.4 |
| 49- 61 | 42.1772 | 79.8643 | 303.0 | 900.1 | 35.0 | 9.6 | 28.2 | 6.5 | 35.5 |
| 49- 67 | 41.9822 | 79.8130 | 465.7 | 1259.4 | 43.3 | 8.2 | 27.9 | 9.2 | 35.2 |
| 49- 68 | 42.0353 | 79.8551 | 468.8 | 1204.3 | 35.0 | 8.1 | 22.3 | 8.8 | 29.6 |
| 49- 78 | 42.0372 | 79.7999 | 474.9 | 1221.6 | 34.4 | 8.0 | 21.6 | 8.9 | 28.9 |
| 49- 103 | 42.1840 | 79.8704 | 273.1 | 865.6 | 29.4 | 9.9 | 22.6 | 6.3 | 29.8 |
| 49- 109 | 42.1481 | 80.0528 | 191.7 | 1820.3 | 42.2 | 10.8 | 17.3 | 12.8 | 24.3 |
| 49- 110 | 42.1425 | 80.0478 | 198.1 | 1820.3 | 42.2 | 10.7 | 17.3 | 12.8 | 24.3 |
| 49- 116 | 42.0468 | 80.0608 | 387.4 | 742.5 | 28.9 | 9.0 | 26.8 | 5.3 | 34.0 |
| 49- 172 | 41.9644 | 79.7331 | 224.0 | 1361.8 | 40.6 | 10.5 | 22.1 | 9.9 | 29.3 |
| 49- 176 | 42.1961 | 79.8303 | 242.9 | 378.0 | 20.0 | 10.2 | 26.0 | 2.5 | 32.6 |
| 49- 177 | 41.9789 | 79.8883 | 465.7 | 1260.3 | 43.3 | 8.2 | 27.9 | 9.2 | 35.2 |
| 49- 326 | 42.0514 | 80.0650 | 382.8 | 726.0 | 28.9 | 9.0 | 27.4 | 5.2 | 34.6 |
| 49- 1612 | 41.9619 | 79.7330 | 528.8 | 1361.8 | 43.3 | 7.5 | 26.3 | 9.9 | 33.6 |
| 49-20163 | 41.8803 | 79.7396 | 509.6 | 1496.3 | 42.8 | 7.8 | 23.4 | 10.8 | 30.6 |
| 49-20367 | 42.2069 | 79.8222 | 266.1 | 869.0 | 31.1 | 9.9 | 24.4 | 6.3 | 31.6 |
| 49-20415 | 41.9204 | 79.9329 | 378.0 | 1203.7 | 36.7 | 9.1 | 22.9 | 8.8 | 30.2 |
| 49-20419 | 42.0843 | 80.0573 | 292.6 | 946.7 | 33.9 | 9.9 | 25.4 | 6.9 | 32.7 |
| 49-20437 | 42.1392 | 80.0337 | 213.4 | 794.0 | 23.3 | 10.6 | 16.1 | 5.7 | 23.3 |
| 65- 487 | 41.9208 | 79.0605 | 411.8 | 2164.1 | 74.4 | 8.5 | 30.5 | 14.7 | 37.3 |
| 83- 267 | 41.8950 | 78.6378 | 467.6 | 1264.9 | 48.3 | 7.8 | 32.1 | 9.2 | 39.3 |
| 83- 268 | 41.8739 | 78.6106 | 678.8 | 3618.0 | 75.6 | 5.7 | 19.3 | 18.9 | 24.5 |
| 83- 269 | 41.9156 | 78.5139 | 536.4 | 1399.0 | 47.8 | 7.1 | 29.1 | 10.1 | 36.3 |
| 83- 273 | 41.8994 | 78.7564 | 635.8 | 1438.4 | 50.0 | 6.2 | 30.5 | 10.4 | 37.7 |
| 83- 275 | 41.9733 | 78.8697 | 452.9 | 1140.0 | 42.8 | 8.0 | 30.5 | 8.3 | 37.8 |
| 83- 277 | 41.9644 | 78.8742 | 530.7 | 1219.5 | 40.0 | 7.2 | 26.9 | 8.9 | 34.2 |
| 83- 280 | 41.8231 | 78.4769 | 620.3 | 585.2 | 23.9 | 6.3 | 30.1 | 4.1 | 37.2 |
| 83- 2503 | 41.8988 | 78.6512 | 467.3 | 1280.2 | 48.3 | 7.8 | 31.7 | 9.3 | 38.9 |
| 83- 2529 | 41.8819 | 78.6154 | 679.4 | 3566.2 | 83.3 | 5.7 | 21.8 | 18.9 | 27.1 |
| 83- 3173 | 41.9449 | 78.8428 | 640.4 | 1359.7 | 35.6 | 6.1 | 21.6 | 9.9 | 28.9 |
| 83- 3273 | 41.9161 | 78.5103 | 537.1 | 1356.4 | 46.1 | 7.1 | 28.8 | 9.8 | 36.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|-----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 83- 9158 | 41.9698 | 78.8592 | 478.5 | 1158.2 | 36.1 | 7.7 | 24.5 | 8.4 | 31.8 |
| 83- 9441 | 41.9739 | 78.8710 | 453.5 | 152.4 | 11.1 | 8.0 | 20.7 | 0.7 | 25.0 |
| 83- 9639 | 41.7809 | 78.7886 | 441.7 | 1659.9 | 47.8 | 8.1 | 23.9 | 11.8 | 31.0 |
| 83-10629 | 41.8278 | 78.5807 | 669.6 | 2127.2 | 50.0 | 5.8 | 20.8 | 14.5 | 27.6 |
| 83-31744 | 41.8722 | 78.6183 | 687.9 | 3191.3 | 77.8 | 5.6 | 22.6 | 18.4 | 28.4 |
| 83-33110 | 41.7942 | 78.4177 | 467.6 | 1492.0 | 43.9 | 7.8 | 24.2 | 10.8 | 31.4 |
| 83-10598 | 41.9648 | 78.8703 | 534.9 | 1219.5 | 40.0 | 7.2 | 26.9 | 8.9 | 34.2 |
| 105- 296 | 41.8811 | 78.1578 | 740.1 | 1740.1 | 46.7 | 5.0 | 24.0 | 12.3 | 31.0 |
| 105- 303 | 41.8658 | 77.8019 | 731.8 | 1566.7 | 52.2 | 5.0 | 30.2 | 11.2 | 37.3 |
| 105- 304 | 41.8850 | 77.7683 | 715.4 | 1633.7 | 47.8 | 5.1 | 26.1 | 11.7 | 33.3 |
| 105- 305 | 41.8750 | 77.8089 | 734.9 | 1600.2 | 54.4 | 4.9 | 30.9 | 11.5 | 38.1 |
| 105- 306 | 41.9300 | 77.8847 | 638.3 | 1608.7 | 47.2 | 5.9 | 25.7 | 11.5 | 32.9 |
| 105- 307 | 41.9103 | 77.9089 | 611.4 | 1565.1 | 46.1 | 6.2 | 25.5 | 11.2 | 32.7 |
| 105- 308 | 41.9294 | 77.8464 | 605.0 | 1575.8 | 40.6 | 6.2 | 21.8 | 11.3 | 29.0 |
| 105- 309 | 41.9116 | 77.9104 | 615.4 | 1564.8 | 46.1 | 6.1 | 25.6 | 11.2 | 32.7 |
| 105- 304 | 41.8999 | 77.9349 | 669.0 | 1634.6 | 41.1 | 5.6 | 21.7 | 11.7 | 28.9 |
| 105- 317 | 41.9282 | 77.9019 | 618.7 | 1593.8 | 45.0 | 6.1 | 24.4 | 11.4 | 31.6 |
| 105- 315 | 41.9217 | 77.8719 | 666.6 | 1631.0 | 48.9 | 5.6 | 26.5 | 11.7 | 33.7 |
| 105- 300 | 41.9332 | 77.8757 | 682.8 | 1652.0 | 49.4 | 5.4 | 26.6 | 11.8 | 33.8 |
| 105- 302 | 41.9509 | 77.7965 | 598.3 | 1569.7 | 40.0 | 6.2 | 21.5 | 11.3 | 28.7 |
| 105-20478 | 41.8784 | 78.1626 | 740.1 | 1739.8 | 46.7 | 5.0 | 24.0 | 12.3 | 31.0 |
| 105- 148 | 41.9167 | 77.7500 | 731.8 | 1584.0 | 51.7 | 4.9 | 29.5 | 11.4 | 36.7 |
| 105- 296 | 41.9221 | 77.9148 | 657.8 | 1630.4 | 48.3 | 5.7 | 26.1 | 11.7 | 33.3 |
| 105- 301 | 41.9299 | 77.8835 | 917.4 | 1599.6 | 47.2 | 3.1 | 27.6 | 11.5 | 34.7 |
| 105- 297 | 41.9171 | 77.9084 | 658.1 | 1617.0 | 47.8 | 5.7 | 26.0 | 11.6 | 33.2 |
| 105- 305 | 41.9230 | 77.9041 | 614.8 | 1582.2 | 43.9 | 6.1 | 23.9 | 11.3 | 31.0 |
| 105- 299 | 41.9174 | 77.8807 | 654.7 | 1613.0 | 46.1 | 5.7 | 25.0 | 11.5 | 32.2 |
| 105- 316 | 41.9142 | 77.9204 | 655.3 | 1622.8 | 40.6 | 5.7 | 21.5 | 11.6 | 28.6 |
| 115- 6 | 41.7778 | 75.6979 | 380.4 | 2591.1 | 60.0 | 8.0 | 20.1 | 16.7 | 26.5 |
| 117- 19 | 41.8876 | 77.5988 | 509.6 | 1581.0 | 52.2 | 7.1 | 28.5 | 11.3 | 35.7 |
| 117- 22 | 41.8832 | 77.5166 | 533.7 | 1417.9 | 45.6 | 6.8 | 27.3 | 10.3 | 34.5 |
| 117- 23 | 41.8846 | 77.4954 | 495.3 | 1310.6 | 41.7 | 7.2 | 26.3 | 9.5 | 33.6 |
| 117- 26 | 41.8566 | 77.5630 | 603.5 | 1416.4 | 40.6 | 6.2 | 24.3 | 10.2 | 31.5 |
| 117- 30 | 41.8719 | 77.5427 | 610.8 | 1492.3 | 49.4 | 6.1 | 29.0 | 10.8 | 36.3 |
| 117- 31 | 41.8638 | 77.5569 | 594.7 | 1452.4 | 38.3 | 6.3 | 22.1 | 10.5 | 29.3 |
| 117- 43 | 41.9863 | 77.5644 | 568.1 | 1681.0 | 52.2 | 6.5 | 27.2 | 12.0 | 34.3 |
| 117- 329 | 41.8964 | 77.4778 | 528.8 | 1387.8 | 38.3 | 6.9 | 22.7 | 10.1 | 29.9 |
| 117- 330 | 41.8892 | 77.6028 | 506.3 | 1584.0 | 52.2 | 7.1 | 28.5 | 11.4 | 35.6 |
| 117- 331 | 41.9867 | 77.5189 | 564.8 | 1681.0 | 52.2 | 6.5 | 27.2 | 12.0 | 34.3 |
| 123- 609 | 41.9539 | 79.2014 | 497.7 | 2471.6 | 73.9 | 7.6 | 26.8 | 16.2 | 33.4 |
| 123-24704 | 41.9207 | 79.5535 | 488.2 | 1418.2 | 40.6 | 8.1 | 22.9 | 10.3 | 30.1 |
| 123- 2693 | 41.7886 | 79.0225 | 597.1 | 1730.3 | 43.3 | 6.7 | 21.2 | 12.3 | 28.3 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|-----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 123- 346 | 41.9608 | 78.9722 | 514.8 | 1209.1 | 41.7 | 7.4 | 28.3 | 8.8 | 35.6 |
| 123- 349 | 41.9544 | 79.2000 | 493.8 | 2478.0 | 73.9 | 7.7 | 26.7 | 16.2 | 33.3 |
| 123- 3313 | 42.4619 | 79.3739 | 488.3 | 1760.5 | 42.8 | 7.3 | 20.2 | 12.5 | 27.2 |
| 127- 2 | 41.8121 | 75.1647 | 328.3 | 1524.0 | 32.8 | 8.5 | 15.9 | 11.0 | 23.1 |
| 127- 364 | 41.8069 | 75.1775 | 328.3 | 1521.0 | 32.8 | 8.5 | 16.0 | 10.9 | 23.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 26 | 42.1598 | 77.6742 | 714.8 | 1444.8 | 45.6 | 5.0 | 23.2 | 10.4 | 30.5 |
| 26 | 42.1598 | 77.6742 | 714.8 | 1474.6 | 47.2 | 5.0 | 23.9 | 10.6 | 31.1 |
| 33 | 42.1649 | 77.6674 | 549.9 | 1319.8 | 46.1 | 6.6 | 25.8 | 9.6 | 33.1 |
| 36 | 42.1568 | 77.6686 | 690.4 | 1454.5 | 48.9 | 5.2 | 30.0 | 10.5 | 37.2 |
| 36 | 42.1568 | 77.6686 | 690.4 | 1451.5 | 46.7 | 5.2 | 23.9 | 10.5 | 31.1 |
| 120 | 42.1600 | 77.6602 | 508.1 | 1272.2 | 36.7 | 7.0 | 23.3 | 9.3 | 30.6 |
| 163 | 42.0776 | 77.2702 | 314.9 | 1160.1 | 40.0 | 8.9 | 24.1 | 8.5 | 31.4 |
| 170 | 42.0772 | 77.2787 | 345.6 | 1177.4 | 40.6 | 8.6 | 24.3 | 8.6 | 31.5 |
| 176 | 42.0784 | 77.4151 | 571.5 | 1269.2 | 42.8 | 6.4 | 28.7 | 9.2 | 35.9 |
| 176 | 42.0481 | 77.4151 | 571.5 | 1342.9 | 37.8 | 6.4 | 19.2 | 9.7 | 26.5 |
| 176 | 42.0481 | 77.4151 | 571.5 | 1306.1 | 41.7 | 6.4 | 22.7 | 9.5 | 30.0 |
| 176 | 42.0481 | 77.4151 | 571.5 | 1265.5 | 37.8 | 6.4 | 20.4 | 9.2 | 27.6 |
| 176 | 42.0481 | 77.4151 | 571.5 | 1342.9 | 37.8 | 6.4 | 19.2 | 9.7 | 26.5 |
| 177 | 42.0706 | 77.4014 | 444.1 | 1183.5 | 38.9 | 7.6 | 26.4 | 8.6 | 33.7 |
| 178 | 42.0761 | 77.3964 | 398.4 | 1152.1 | 45.0 | 8.1 | 32.0 | 8.4 | 39.3 |
| 179 | 42.0600 | 77.3915 | 539.5 | 1258.8 | 41.1 | 6.7 | 27.3 | 9.2 | 34.6 |
| 180 | 42.0529 | 77.4371 | 486.5 | 1188.7 | 44.4 | 7.2 | 31.3 | 8.7 | 38.6 |
| 182 | 42.0521 | 77.4024 | 559.3 | 1271.3 | 42.2 | 6.5 | 28.1 | 9.2 | 35.4 |
| 183 | 42.0510 | 77.4136 | 571.2 | 1262.8 | 45.0 | 6.4 | 30.6 | 9.2 | 37.8 |
| 184 | 42.0680 | 77.4036 | 499.6 | 1227.4 | 40.0 | 7.1 | 26.8 | 8.9 | 34.1 |
| 185 | 42.0674 | 77.4080 | 524.3 | 1250.0 | 41.7 | 6.9 | 27.8 | 9.1 | 35.1 |
| 186 | 42.0591 | 77.4166 | 522.7 | 1220.1 | 40.6 | 6.9 | 27.6 | 8.9 | 34.9 |
| 186 | 42.0591 | 77.4166 | 522.7 | 1198.8 | 32.8 | 6.9 | 21.6 | 8.7 | 28.9 |
| 186 | 42.0591 | 77.4166 | 522.7 | 1269.8 | 37.8 | 6.9 | 24.3 | 9.2 | 31.6 |
| 187 | 42.0619 | 77.3884 | 498.7 | 1217.1 | 40.0 | 7.1 | 27.0 | 8.9 | 34.3 |
| 188 | 42.0493 | 77.4397 | 465.4 | 1166.8 | 41.1 | 7.4 | 28.9 | 8.5 | 36.2 |
| 190 | 42.0482 | 77.4345 | 534.0 | 1226.2 | 40.0 | 6.8 | 27.1 | 8.9 | 34.4 |
| 191 | 42.0669 | 77.4139 | 484.9 | 1211.9 | 40.6 | 7.2 | 27.5 | 8.8 | 34.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 192 | 42.0615 | 77.3973 | 551.4 | 1267.4 | 41.1 | 6.6 | 27.2 | 9.2 | 34.5 |
| 194 | 42.0422 | 77.4575 | 550.8 | 1283.8 | 47.2 | 6.6 | 31.6 | 9.3 | 38.9 |
| 195 | 42.0685 | 77.4084 | 501.1 | 1228.6 | 46.7 | 7.1 | 32.2 | 8.9 | 39.5 |
| 196 | 42.0644 | 77.4832 | 540.4 | 1250.3 | 45.6 | 6.7 | 31.1 | 9.1 | 38.4 |
| 198 | 42.0548 | 77.4139 | 550.2 | 1232.3 | 42.2 | 6.6 | 28.9 | 9.0 | 36.2 |
| 201 | 42.0784 | 77.3280 | 354.2 | 1099.4 | 42.2 | 8.5 | 30.6 | 8.0 | 37.9 |
| 203 | 42.0820 | 77.3795 | 425.8 | 1193.0 | 42.2 | 7.8 | 28.8 | 8.7 | 36.1 |
| 204 | 42.0801 | 77.3645 | 375.5 | 1126.8 | 41.1 | 8.3 | 29.1 | 8.2 | 36.4 |
| 205 | 42.0806 | 77.3667 | 389.5 | 1146.4 | 40.6 | 8.2 | 28.2 | 8.4 | 35.5 |
| 207 | 42.0850 | 77.3697 | 423.7 | 1189.0 | 41.1 | 7.8 | 28.0 | 8.7 | 35.3 |
| 208 | 42.0425 | 77.4493 | 486.5 | 1195.1 | 45.6 | 7.2 | 32.1 | 8.7 | 39.4 |
| 209 | 42.0537 | 77.4427 | 485.5 | 1221.0 | 40.0 | 7.2 | 26.8 | 8.9 | 34.1 |
| 210 | 42.0838 | 77.3599 | 380.7 | 1139.3 | 43.9 | 8.3 | 31.3 | 8.3 | 38.6 |
| 212 | 42.0679 | 77.3550 | 532.2 | 1290.5 | 36.1 | 6.8 | 22.7 | 9.4 | 30.0 |
| 213 | 42.0812 | 77.3100 | 345.3 | 1111.9 | 44.4 | 8.6 | 32.2 | 8.1 | 39.5 |
| 216 | 42.0688 | 77.4110 | 468.2 | 1207.0 | 40.0 | 7.4 | 27.0 | 8.8 | 34.3 |
| 217 | 42.0802 | 77.3501 | 420.0 | 1175.9 | 42.8 | 7.9 | 29.7 | 8.6 | 37.0 |
| 219 | 42.0696 | 77.3504 | 535.8 | 1275.9 | 37.8 | 6.7 | 24.3 | 9.3 | 31.6 |
| 220 | 42.0726 | 77.3415 | 468.5 | 1204.6 | 40.0 | 7.4 | 27.1 | 8.8 | 34.3 |
| 224 | 42.0530 | 77.4175 | 532.2 | 1217.1 | 40.6 | 6.8 | 27.7 | 8.9 | 35.0 |
| 226 | 42.0649 | 77.4103 | 510.8 | 1226.8 | 40.6 | 7.0 | 27.4 | 8.9 | 34.6 |
| 226 | 42.0649 | 77.4103 | 510.8 | 1270.4 | 40.6 | 7.0 | 22.5 | 9.2 | 29.8 |
| 226 | 42.0649 | 77.4103 | 510.8 | 1286.6 | 40.6 | 7.0 | 22.2 | 9.4 | 29.5 |
| 226 | 42.0649 | 77.4103 | 510.8 | 1270.4 | 40.6 | 7.0 | 22.5 | 9.2 | 29.8 |
| 228 | 42.0641 | 77.4124 | 484.6 | 1204.3 | 40.6 | 7.3 | 27.7 | 8.8 | 34.9 |
| 229 | 42.0672 | 77.4089 | 490.7 | 1230.5 | 40.0 | 7.2 | 26.7 | 9.0 | 33.9 |
| 230 | 42.0669 | 77.4069 | 488.3 | 1223.5 | 41.1 | 7.2 | 27.7 | 8.9 | 35.0 |
| 269 | 42.4745 | 77.0126 | 439.5 | 618.1 | 26.7 | 7.7 | 30.7 | 4.4 | 37.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 291 | 42.0029 | 77.6168 | 627.3 | 1531.9 | 48.9 | 5.9 | 24.1 | 11.0 | 31.3 |
| 300 | 42.4735 | 77.0363 | 466.3 | 634.9 | 29.3 | 7.4 | 27.3 | 4.5 | 34.4 |
| 309 | 42.0658 | 77.3593 | 531.9 | 1264.0 | 40.0 | 6.8 | 26.3 | 9.2 | 33.6 |
| 373 | 42.4710 | 77.0368 | 457.5 | 629.1 | 30.6 | 7.5 | 36.6 | 4.5 | 43.7 |
| 378 | 42.4702 | 77.0168 | 408.4 | 587.7 | 23.7 | 8.0 | 19.9 | 4.1 | 26.9 |
| 448 | 42.4654 | 77.0135 | 428.9 | 604.1 | 29.0 | 7.8 | 35.1 | 4.3 | 42.2 |
| 449 | 42.4714 | 77.0415 | 436.2 | 606.2 | 28.4 | 7.7 | 34.2 | 4.3 | 41.2 |
| 450 | 42.4697 | 77.0415 | 437.1 | 611.7 | 23.4 | 7.7 | 18.7 | 4.3 | 25.8 |
| 538 | 42.4686 | 76.9997 | 463.6 | 667.2 | 30.6 | 7.5 | 27.8 | 4.8 | 35.0 |
| 540 | 42.4735 | 76.9997 | 465.1 | 655.6 | 29.7 | 7.4 | 34.0 | 4.7 | 41.1 |
| 559 | 42.4684 | 77.0344 | 462.4 | 636.1 | 30.0 | 7.5 | 35.4 | 4.5 | 42.5 |
| 560 | 42.4773 | 77.0819 | 389.2 | 554.1 | 30.0 | 8.2 | 39.4 | 3.9 | 46.4 |
| 561 | 42.4806 | 77.0777 | 380.4 | 550.5 | 27.5 | 8.3 | 34.9 | 3.8 | 41.9 |
| 562 | 42.4768 | 77.0122 | 445.6 | 628.8 | 28.3 | 7.6 | 26.0 | 4.5 | 33.1 |
| 564 | 42.4664 | 77.0470 | 387.1 | 558.1 | 30.9 | 8.2 | 40.7 | 3.9 | 47.7 |
| 564 | 42.4664 | 77.0470 | 378.0 | 527.3 | 27.7 | 8.3 | 36.7 | 3.7 | 43.7 |
| 567 | 42.4847 | 77.0756 | 392.0 | 570.9 | 28.1 | 8.2 | 34.9 | 4.0 | 41.9 |
| 569 | 42.4723 | 77.1085 | 356.0 | 527.6 | 25.6 | 8.5 | 32.4 | 3.7 | 39.4 |
| 571 | 42.4882 | 77.1221 | 343.2 | 512.7 | 29.7 | 8.6 | 34.6 | 3.6 | 41.5 |
| 572 | 42.4721 | 77.0267 | 464.5 | 638.3 | 23.2 | 7.4 | 24.7 | 4.5 | 31.8 |
| 575 | 42.4817 | 77.1093 | 356.3 | 530.4 | 27.1 | 8.5 | 35.0 | 3.7 | 41.9 |
| 575 | 42.4817 | 77.1093 | 356.3 | 518.2 | 22.8 | 8.5 | 27.5 | 3.6 | 34.5 |
| 576 | 42.4771 | 77.1096 | 360.3 | 529.4 | 26.7 | 8.5 | 34.4 | 3.7 | 41.3 |
| 578 | 42.4767 | 77.1078 | 341.1 | 536.1 | 26.4 | 8.7 | 26.8 | 3.7 | 33.8 |
| 583 | 42.4686 | 77.1067 | 357.5 | 524.0 | 28.0 | 8.5 | 30.5 | 3.6 | 37.5 |
| 586 | 42.4652 | 77.0991 | 341.7 | 527.6 | 29.7 | 8.7 | 39.9 | 3.7 | 46.9 |
| 628 | 42.4957 | 77.0913 | 436.8 | 630.6 | 29.8 | 7.7 | 28.3 | 4.5 | 35.4 |
| 633 | 42.4921 | 77.0684 | 490.4 | 668.7 | 29.1 | 7.2 | 32.7 | 4.8 | 39.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 637 | 42.4856 | 77.0211 | 435.9 | 630.3 | 36.1 | 7.7 | 45.0 | 4.5 | 52.1 |
| 638 | 42.4551 | 77.0745 | 446.2 | 642.5 | 30.4 | 7.6 | 28.6 | 4.6 | 35.7 |
| 640 | 42.4782 | 77.0714 | 402.6 | 581.3 | 28.4 | 8.1 | 35.1 | 4.1 | 42.1 |
| 641 | 42.4720 | 77.0773 | 417.6 | 581.9 | 33.7 | 7.9 | 44.4 | 4.1 | 51.4 |
| 643 | 42.4698 | 77.0259 | 459.6 | 636.7 | 30.3 | 7.5 | 35.8 | 4.5 | 42.9 |
| 1024 | 42.4734 | 77.0702 | 404.8 | 571.8 | 26.8 | 8.0 | 25.8 | 4.0 | 32.9 |
| 1074 | 42.4742 | 77.0180 | 437.1 | 612.0 | 28.1 | 7.7 | 33.2 | 4.3 | 40.3 |
| 1075 | 42.4738 | 77.1052 | 217.9 | 531.9 | 27.2 | 9.9 | 32.6 | 3.7 | 39.6 |
| 1076 | 42.4651 | 77.0285 | 468.8 | 653.5 | 30.0 | 7.4 | 34.6 | 4.7 | 41.7 |
| 1078 | 42.4642 | 77.0152 | 399.6 | 597.4 | 29.8 | 8.1 | 36.4 | 4.2 | 43.5 |
| 1079 | 42.4774 | 77.0245 | 458.4 | 636.7 | 30.3 | 7.5 | 28.7 | 4.5 | 35.8 |
| 1080 | 42.4773 | 77.0307 | 472.4 | 658.1 | 29.6 | 7.4 | 33.8 | 4.7 | 40.9 |
| 1080 | 42.4773 | 77.0307 | 473.4 | 675.4 | 24.4 | 7.4 | 25.3 | 4.8 | 32.4 |
| 1081 | 42.4729 | 77.0057 | 482.2 | 669.0 | 29.2 | 7.3 | 32.7 | 4.8 | 39.9 |
| 1082 | 42.4820 | 77.0052 | 458.1 | 654.7 | 36.0 | 7.5 | 43.5 | 4.7 | 50.6 |
| 1083 | 42.4754 | 77.0333 | 468.8 | 643.7 | 30.2 | 7.4 | 28.2 | 4.6 | 35.3 |
| 1083 | 42.4754 | 77.0333 | 468.8 | 660.2 | 24.4 | 7.4 | 25.8 | 4.7 | 32.9 |
| 1084 | 42.4727 | 77.0389 | 453.8 | 623.0 | 28.7 | 7.6 | 34.0 | 4.4 | 41.1 |
| 1085 | 42.4779 | 77.0396 | 462.4 | 640.7 | 29.8 | 7.5 | 34.9 | 4.6 | 42.0 |
| 1086 | 42.4672 | 77.0389 | 456.6 | 631.5 | 26.8 | 7.5 | 30.5 | 4.5 | 37.6 |
| 1087 | 42.4839 | 77.0174 | 446.2 | 638.6 | 36.4 | 7.6 | 45.0 | 4.5 | 52.2 |
| 1089 | 42.4685 | 77.0075 | 349.6 | 667.5 | 29.7 | 8.6 | 31.6 | 4.8 | 38.7 |
| 1090 | 42.4650 | 77.0495 | 373.7 | 544.4 | 25.3 | 8.3 | 31.2 | 3.8 | 38.2 |
| 1091 | 42.4699 | 77.0512 | 373.4 | 542.5 | 25.5 | 8.3 | 31.6 | 3.8 | 38.6 |
| 1092 | 42.4680 | 77.0593 | 392.6 | 561.7 | 27.5 | 8.2 | 34.4 | 3.9 | 41.5 |
| 1093 | 42.4706 | 77.0745 | 411.5 | 580.9 | 34.1 | 8.0 | 45.0 | 4.1 | 52.0 |
| 1094 | 42.4897 | 77.0658 | 419.7 | 595.6 | 30.0 | 7.9 | 37.1 | 4.2 | 44.2 |
| 1095 | 42.4821 | 77.0870 | 431.6 | 600.2 | 28.6 | 7.8 | 34.7 | 4.2 | 41.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 1096 | 42.4853 | 77.0876 | 450.2 | 621.2 | 28.9 | 7.6 | 34.3 | 4.4 | 41.4 |
| 1099 | 42.4864 | 77.0893 | 453.2 | 623.6 | 27.8 | 7.6 | 32.4 | 4.4 | 39.5 |
| 1101 | 42.4800 | 77.1022 | 381.3 | 546.2 | 26.4 | 8.3 | 26.3 | 3.8 | 33.3 |
| 1102 | 42.4805 | 77.1063 | 370.3 | 536.4 | 28.3 | 8.4 | 37.2 | 3.7 | 44.2 |
| 1104 | 42.4841 | 77.1096 | 349.0 | 526.7 | 33.2 | 8.6 | 46.7 | 3.7 | 53.6 |
| 1105 | 42.4756 | 77.1085 | 364.2 | 532.2 | 27.4 | 8.4 | 35.6 | 3.7 | 42.6 |
| 1111 | 42.4709 | 77.0987 | 340.8 | 512.4 | 25.6 | 8.7 | 33.0 | 3.5 | 39.9 |
| 1112 | 42.4677 | 77.0989 | 339.9 | 514.8 | 26.7 | 8.7 | 35.0 | 3.6 | 41.9 |
| 1113 | 42.4734 | 77.0469 | 354.2 | 523.6 | 30.0 | 8.5 | 34.4 | 3.6 | 41.3 |
| 1115 | 42.4736 | 77.1008 | 360.9 | 527.3 | 30.9 | 8.5 | 42.6 | 3.7 | 49.6 |
| 1117 | 42.4758 | 77.1059 | 372.5 | 536.8 | 27.8 | 8.3 | 36.2 | 3.7 | 43.2 |
| 1118 | 42.4775 | 77.1056 | 373.1 | 537.1 | 27.0 | 8.3 | 34.7 | 3.7 | 41.7 |
| 1121 | 42.4745 | 77.0993 | 363.3 | 527.0 | 27.2 | 8.4 | 28.9 | 3.7 | 35.8 |
| 1127 | 42.4726 | 77.1048 | 360.3 | 529.1 | 26.7 | 8.5 | 34.4 | 3.7 | 41.3 |
| 1132 | 42.4698 | 77.1046 | 348.4 | 520.0 | 30.6 | 8.6 | 42.3 | 3.6 | 49.2 |
| 1133 | 42.4708 | 77.1019 | 346.9 | 521.5 | 26.4 | 8.6 | 34.1 | 3.6 | 41.1 |
| 1135 | 42.4704 | 77.1089 | 353.0 | 528.8 | 27.4 | 8.5 | 35.6 | 3.7 | 42.6 |
| 1142 | 42.4677 | 77.1146 | 358.1 | 542.5 | 28.1 | 8.5 | 36.2 | 3.8 | 43.1 |
| 1144 | 42.4672 | 77.1061 | 339.9 | 528.8 | 27.8 | 8.7 | 36.1 | 3.7 | 43.1 |
| 1191 | 42.0729 | 77.4138 | 426.1 | 1177.1 | 42.2 | 7.8 | 29.2 | 8.6 | 36.5 |
| 1196 | 42.4716 | 77.0196 | 429.5 | 603.2 | 30.3 | 7.8 | 37.3 | 4.3 | 44.3 |
| 1282 | 42.4691 | 77.0139 | 429.5 | 613.3 | 28.6 | 7.8 | 27.1 | 4.3 | 34.2 |
| 1810 | 42.4682 | 77.0971 | 410.9 | 597.1 | 30.0 | 8.0 | 36.9 | 4.2 | 43.9 |
| 1811 | 42.4698 | 77.0185 | 421.2 | 603.5 | 28.3 | 7.9 | 27.1 | 4.3 | 34.1 |
| 1812 | 42.4723 | 77.0335 | 463.9 | 630.6 | 28.3 | 7.5 | 25.9 | 4.5 | 33.0 |
| 1813 | 42.4751 | 77.0383 | 466.0 | 638.9 | 26.9 | 7.4 | 23.3 | 4.5 | 30.4 |
| 2357 | 42.1596 | 77.6712 | 701.6 | 1457.6 | 49.3 | 5.1 | 30.3 | 10.5 | 37.6 |
| 2398 | 43.1463 | 76.3236 | 112.8 | 794.3 | 29.4 | 10.9 | 22.0 | 5.7 | 29.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 2643 | 42.4694 | 77.0096 | 464.8 | 655.3 | 29.3 | 7.4 | 33.4 | 4.7 | 40.5 |
| 2644 | 42.4742 | 77.0076 | 464.8 | 652.3 | 28.6 | 7.4 | 32.5 | 4.6 | 39.6 |
| 2645 | 42.4762 | 77.0104 | 460.2 | 639.2 | 27.7 | 7.5 | 24.6 | 4.5 | 31.7 |
| 2646 | 42.4683 | 77.0311 | 457.2 | 641.0 | 29.7 | 7.5 | 27.6 | 4.6 | 34.7 |
| 2647 | 42.4707 | 77.0303 | 464.8 | 640.1 | 29.6 | 7.4 | 27.5 | 4.6 | 34.6 |
| 2962 | 42.4892 | 77.0885 | 451.4 | 626.7 | 30.3 | 7.6 | 29.2 | 4.4 | 36.3 |
| 2970 | 42.4699 | 77.0633 | 394.7 | 561.4 | 27.8 | 8.1 | 28.1 | 3.9 | 35.1 |
| 3859 | 42.7918 | 77.4568 | 430.4 | 901.3 | 34.4 | 7.8 | 29.6 | 6.6 | 36.9 |
| 3878 | 42.7854 | 77.4408 | 433.1 | 914.4 | 24.6 | 7.8 | 13.7 | 6.7 | 21.0 |
| 3888 | 42.4199 | 76.8924 | 145.7 | 376.1 | 25.7 | 10.6 | 36.5 | 2.5 | 43.0 |
| 3894 | 42.0486 | 77.4266 | 524.0 | 1259.4 | 47.2 | 6.9 | 32.0 | 9.2 | 39.3 |
| 3924 | 42.0630 | 77.4308 | 501.4 | 3851.8 | 91.7 | 7.1 | 20.7 | 18.8 | 25.6 |
| 3929 | 42.7827 | 77.4810 | 318.2 | 809.2 | 33.1 | 8.9 | 29.9 | 5.9 | 37.1 |
| 3930 | 42.7891 | 77.4743 | 363.9 | 843.4 | 27.1 | 8.4 | 22.1 | 6.1 | 29.3 |
| 3931 | 42.7891 | 77.4655 | 417.3 | 891.5 | 31.6 | 7.9 | 26.5 | 6.5 | 33.8 |
| 3931 | 42.7891 | 77.4655 | 417.3 | 891.5 | 31.6 | 7.9 | 26.5 | 6.5 | 33.8 |
| 3945 | 42.7931 | 77.4799 | 353.9 | 823.0 | 32.0 | 8.5 | 28.5 | 6.0 | 35.8 |
| 3947 | 42.7880 | 77.4840 | 307.2 | 788.2 | 28.3 | 9.0 | 24.5 | 5.7 | 31.8 |
| 3964 | 42.7685 | 77.4944 | 324.6 | 410.0 | 18.6 | 8.8 | 23.9 | 2.7 | 30.6 |
| 3971 | 42.7852 | 77.4929 | 285.3 | 765.0 | 29.4 | 9.2 | 26.5 | 5.5 | 33.7 |
| 3976 | 42.7972 | 77.4545 | 452.0 | 915.0 | 34.1 | 7.6 | 29.0 | 6.7 | 36.3 |
| 3978 | 42.8137 | 77.4632 | 443.5 | 904.3 | 34.1 | 7.7 | 29.2 | 6.6 | 36.5 |
| 3985 | 42.7947 | 77.4714 | 422.8 | 889.1 | 32.7 | 7.9 | 27.9 | 6.5 | 35.2 |
| 3991 | 42.7847 | 77.4560 | 405.4 | 886.7 | 32.5 | 8.0 | 27.6 | 6.4 | 34.9 |
| 3997 | 42.7986 | 77.5086 | 226.5 | 703.5 | 34.2 | 9.8 | 34.7 | 5.0 | 41.9 |
| 4002 | 42.8170 | 75.6588 | 516.3 | 854.0 | 35.6 | 6.9 | 27.6 | 6.2 | 34.8 |
| 4005 | 42.8016 | 77.4932 | 335.3 | 791.0 | 29.1 | 8.7 | 25.7 | 5.7 | 32.9 |
| 4023 | 42.7991 | 77.4847 | 350.8 | 807.7 | 29.2 | 8.6 | 25.5 | 5.8 | 32.7 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 4027 | 42.7918 | 77.4212 | 466.0 | 937.6 | 35.0 | 7.4 | 29.4 | 6.8 | 36.7 |
| 4036 | 42.8096 | 77.4943 | 312.1 | 752.2 | 26.7 | 8.9 | 23.6 | 5.4 | 30.8 |
| 4040 | 42.8013 | 77.4751 | 394.1 | 848.6 | 29.7 | 8.1 | 25.4 | 6.2 | 32.7 |
| 4041 | 42.7880 | 77.4330 | 479.8 | 958.3 | 33.1 | 7.3 | 26.9 | 7.0 | 34.2 |
| 4048 | 42.8225 | 75.6362 | 472.4 | 892.8 | 21.1 | 7.4 | 15.4 | 6.5 | 22.7 |
| 4060 | 42.7828 | 77.4479 | 422.5 | 906.8 | 23.9 | 7.9 | 13.1 | 6.6 | 20.4 |
| 4069 | 42.8717 | 77.9322 | 268.5 | 1385.6 | 40.8 | 9.4 | 20.8 | 10.0 | 28.1 |
| 4089 | 42.8030 | 77.9456 | 289.9 | 642.2 | 10.0 | 9.2 | 1.3 | 4.6 | 8.4 |
| 4129 | 42.8072 | 77.9352 | 279.2 | 615.7 | 15.6 | 9.3 | 10.2 | 4.4 | 17.3 |
| 4129 | 42.8072 | 77.9352 | 279.2 | 613.3 | 19.3 | 9.3 | 12.0 | 4.3 | 19.0 |
| 4151 | 42.8133 | 77.9422 | 291.7 | 632.5 | 21.7 | 9.1 | 19.8 | 4.5 | 26.9 |
| 4166 | 42.7962 | 77.9407 | 282.5 | 635.8 | 21.5 | 9.2 | 19.3 | 4.5 | 26.4 |
| 4186 | 42.8212 | 77.9402 | 303.3 | 628.5 | 20.0 | 9.0 | 17.5 | 4.5 | 24.6 |
| 4346 | 42.3139 | 77.1646 | 530.0 | 970.5 | 33.9 | 6.8 | 22.6 | 7.1 | 29.8 |
| 4391 | 42.8277 | 77.9356 | 298.7 | 633.2 | 18.9 | 9.1 | 15.5 | 4.5 | 22.6 |
| 4495 | 42.8270 | 77.9508 | 332.8 | 651.4 | 35.6 | 8.7 | 41.2 | 4.6 | 48.3 |
| 4714 | 42.5163 | 76.0017 | 478.2 | 2521.0 | 57.2 | 7.3 | 19.8 | 16.4 | 26.3 |
| 4724 | 43.1514 | 77.9752 | 196.0 | 1017.4 | 25.0 | 10.1 | 14.7 | 7.4 | 22.0 |
| 4760 | 42.9893 | 77.2789 | 181.7 | 1312.2 | 39.4 | 10.2 | 22.3 | 9.5 | 29.5 |
| 4796 | 42.6839 | 77.0219 | 292.9 | 928.3 | 37.8 | 9.1 | 30.9 | 6.8 | 38.1 |
| 4863 | 42.2523 | 76.7788 | 465.1 | 1009.2 | 30.0 | 7.4 | 22.4 | 7.4 | 29.6 |
| 4871 | 43.0216 | 77.3354 | 169.5 | 1326.8 | 33.9 | 10.3 | 17.7 | 9.6 | 25.0 |
| 4947 | 42.8716 | 77.3676 | 321.6 | 813.2 | 26.7 | 8.8 | 21.9 | 5.9 | 29.2 |
| 5000 | 43.1051 | 76.5527 | 130.1 | 1143.6 | 31.9 | 10.7 | 18.6 | 8.3 | 25.8 |
| 5011 | 43.1465 | 76.5527 | 120.4 | 1090.0 | 26.7 | 10.8 | 14.5 | 8.0 | 21.8 |
| 5032 | 43.0592 | 76.8960 | 143.9 | 1194.2 | 35.6 | 10.6 | 20.9 | 8.7 | 28.2 |
| 5086 | 43.3081 | 78.0334 | 114.3 | 746.8 | 25.6 | 10.9 | 19.7 | 5.4 | 26.9 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 5087 | 42.3235 | 75.9481 | 303.4 | 2180.2 | 41.1 | 9.0 | 14.7 | 14.8 | 21.5 |
| 5087 | 42.3235 | 75.9481 | 303.4 | 2891.0 | 54.4 | 9.0 | 15.7 | 17.7 | 21.8 |
| 5123 | 42.1157 | 77.5807 | 687.0 | 1448.7 | 28.6 | 5.3 | 16.1 | 10.5 | 23.3 |
| 5344 | 42.3904 | 75.7735 | 470.0 | 1871.5 | 32.8 | 7.4 | 11.1 | 13.1 | 18.1 |
| 6636 | 42.4063 | 75.8776 | 442.6 | 1750.8 | 40.2 | 7.7 | 16.1 | 12.4 | 23.2 |
| 6719 | 43.0293 | 76.9439 | 119.4 | 1234.4 | 34.4 | 10.8 | 19.1 | 9.0 | 26.4 |
| 6780 | 43.1091 | 76.5470 | 137.5 | 944.3 | 23.6 | 10.7 | 13.7 | 6.9 | 21.0 |
| 6782 | 42.7861 | 75.6897 | 465.1 | 1055.5 | 34.4 | 7.4 | 25.6 | 7.7 | 32.9 |
| 8318 | 42.2363 | 77.5156 | 646.8 | 1338.7 | 40.0 | 5.7 | 25.7 | 9.7 | 32.9 |
| 8342 | 42.3978 | 75.8907 | 448.1 | 1832.2 | 40.7 | 7.6 | 18.0 | 12.9 | 25.1 |
| 8348 | 42.2778 | 77.4177 | 496.8 | 1156.7 | 40.6 | 7.1 | 28.9 | 8.4 | 36.2 |
| 9380 | 42.4740 | 77.0400 | 443.2 | 617.8 | 26.4 | 7.7 | 23.4 | 4.4 | 30.5 |
| 9381 | 42.4709 | 77.0383 | 451.1 | 590.1 | 29.2 | 7.6 | 29.1 | 4.2 | 36.1 |
| 9382 | 42.4726 | 77.0030 | 475.5 | 663.5 | 27.6 | 7.3 | 23.5 | 4.7 | 30.7 |
| 9383 | 42.4751 | 77.0276 | 464.8 | 637.9 | 30.2 | 7.4 | 35.7 | 4.5 | 42.8 |
| 9385 | 42.4704 | 77.0454 | 393.2 | 565.4 | 28.6 | 8.1 | 29.3 | 4.0 | 36.3 |
| 9386 | 42.4747 | 77.0963 | 363.3 | 529.1 | 27.3 | 8.4 | 35.7 | 3.7 | 42.7 |
| 9387 | 42.4749 | 77.0904 | 357.2 | 521.2 | 33.9 | 8.5 | 48.8 | 3.6 | 55.8 |
| 9388 | 42.4814 | 77.0893 | 434.9 | 614.2 | 25.6 | 7.7 | 29.0 | 4.3 | 36.1 |
| 9388 | 42.4814 | 77.0893 | 434.9 | 607.2 | 27.2 | 7.7 | 25.1 | 4.3 | 32.1 |
| 9389 | 42.4719 | 77.0963 | 344.7 | 511.1 | 33.8 | 8.6 | 49.2 | 3.5 | 56.1 |
| 9390 | 42.4847 | 77.0822 | 411.8 | 582.8 | 28.6 | 8.0 | 35.4 | 4.1 | 42.5 |
| 9391 | 42.4726 | 77.0915 | 363.0 | 528.2 | 33.7 | 8.4 | 47.9 | 3.7 | 54.8 |
| 9392 | 42.4795 | 77.0802 | 373.4 | 541.9 | 29.4 | 8.3 | 38.9 | 3.8 | 45.9 |
| 9393 | 42.4770 | 77.0878 | 370.9 | 536.1 | 28.0 | 8.4 | 36.6 | 3.7 | 43.6 |
| 9395 | 42.4792 | 77.0733 | 399.9 | 573.0 | 27.3 | 8.1 | 33.5 | 4.0 | 40.5 |
| 9396 | 42.4733 | 77.0557 | 380.1 | 551.1 | 27.8 | 8.3 | 35.4 | 3.9 | 42.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 9397 | 42.4756 | 77.0670 | 402.3 | 119.5 | 30.0 | 8.1 | 150.7 | 0.4 | 153.9 |
| 9400 | 42.4773 | 77.0915 | 566.0 | 547.1 | 26.7 | 6.5 | 26.8 | 3.8 | 33.8 |
| 9403 | 42.4762 | 77.0735 | 413.0 | 580.6 | 28.2 | 8.0 | 27.8 | 4.1 | 34.9 |
| 9404 | 42.4675 | 77.0620 | 401.1 | 570.0 | 26.8 | 8.1 | 32.9 | 4.0 | 39.9 |
| 9405 | 42.4646 | 77.0422 | 459.9 | 637.6 | 35.2 | 7.5 | 43.5 | 4.5 | 50.6 |
| 9406 | 42.4696 | 77.0934 | 361.5 | 531.6 | 33.6 | 8.5 | 47.2 | 3.7 | 54.2 |
| 9407 | 42.4687 | 77.0261 | 457.8 | 637.6 | 34.9 | 7.5 | 42.9 | 4.5 | 50.0 |
| 9409 | 42.4659 | 77.0322 | 478.8 | 656.2 | 30.3 | 7.3 | 35.0 | 4.7 | 42.1 |
| 9410 | 42.4771 | 77.0163 | 434.6 | 611.7 | 31.1 | 7.7 | 38.2 | 4.3 | 45.3 |
| 9412 | 42.4656 | 77.0541 | 378.9 | 549.2 | 32.8 | 8.3 | 44.6 | 3.8 | 51.6 |
| 9413 | 42.4767 | 77.0209 | 455.1 | 626.7 | 31.6 | 7.5 | 38.3 | 4.4 | 45.4 |
| 9414 | 42.4642 | 77.0795 | 429.2 | 602.9 | 35.6 | 7.8 | 46.0 | 4.3 | 53.1 |
| 9415 | 42.4734 | 77.0809 | 397.8 | 562.1 | 29.2 | 8.1 | 37.5 | 3.9 | 44.5 |
| 9416 | 42.4712 | 77.0215 | 448.7 | 624.5 | 26.9 | 7.6 | 30.9 | 4.4 | 38.0 |
| 9419 | 42.4718 | 77.0100 | 462.4 | 644.0 | 29.4 | 7.5 | 34.1 | 4.6 | 41.2 |
| 9420 | 42.4718 | 77.0442 | 419.1 | 590.1 | 28.1 | 7.9 | 27.2 | 4.2 | 34.3 |
| 9421 | 42.4678 | 77.0170 | 407.2 | 589.2 | 28.6 | 8.0 | 28.2 | 4.2 | 35.2 |
| 9424 | 42.4762 | 76.9939 | 445.3 | 636.7 | 28.5 | 7.6 | 32.8 | 4.5 | 39.9 |
| 9524 | 42.9002 | 78.2439 | 283.2 | 1247.5 | 32.2 | 9.2 | 18.4 | 9.1 | 25.7 |
| 9540 | 43.1890 | 78.0381 | 180.7 | 874.8 | 25.6 | 10.2 | 17.5 | 6.4 | 24.8 |
| 9557 | 42.1460 | 76.3374 | 452.6 | 1539.2 | 41.1 | 7.6 | 21.8 | 11.1 | 29.0 |
| 9557 | 42.1460 | 76.3374 | 452.6 | 1563.9 | 41.1 | 7.6 | 21.5 | 11.2 | 28.6 |
| 9563 | 43.0877 | 78.1096 | 198.1 | 1030.2 | 23.9 | 10.1 | 13.4 | 7.5 | 20.7 |
| 9578 | 42.9513 | 75.8078 | 413.9 | 811.7 | 32.2 | 7.9 | 29.9 | 5.9 | 37.2 |
| 9578 | 42.9513 | 75.8078 | 413.9 | 1492.3 | 44.4 | 7.9 | 24.5 | 10.8 | 31.7 |
| 9582 | 42.2780 | 77.4223 | 542.5 | 1184.1 | 34.4 | 6.7 | 23.4 | 8.6 | 30.7 |
| 9582 | 42.2780 | 77.4223 | 542.5 | 1184.5 | 34.4 | 6.7 | 23.4 | 8.6 | 30.7 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 10606 | 42.8779 | 78.4332 | 286.5 | 493.2 | 28.1 | 9.2 | 38.2 | 3.4 | 45.1 |
| 10607 | 42.4511 | 75.4853 | 523.3 | 1611.2 | 32.8 | 6.9 | 16.1 | 11.5 | 23.2 |
| 10608 | 42.3173 | 75.6714 | 426.7 | 2008.6 | 43.3 | 7.8 | 17.7 | 13.9 | 24.6 |
| 10609 | 42.3769 | 75.6227 | 426.7 | 1958.9 | 51.1 | 7.8 | 22.1 | 13.6 | 29.1 |
| 10649 | 42.2388 | 77.5203 | 658.1 | 1335.0 | 36.7 | 5.6 | 23.3 | 9.7 | 30.6 |
| 10701 | 42.8764 | 76.7057 | 125.3 | 550.8 | 23.7 | 10.8 | 23.4 | 3.9 | 30.4 |
| 10702 | 42.8767 | 76.6927 | 138.4 | 553.5 | 27.9 | 10.6 | 31.2 | 3.9 | 38.2 |
| 10776 | 42.9206 | 78.1674 | 313.9 | 1321.3 | 38.9 | 8.9 | 20.4 | 9.6 | 27.6 |
| 10920 | 42.7860 | 77.7531 | 329.8 | 766.6 | 29.4 | 8.8 | 27.0 | 5.5 | 34.2 |
| 10921 | 43.3334 | 77.9578 | 99.1 | 670.6 | 21.1 | 11.0 | 15.0 | 4.8 | 22.2 |
| 10922 | 42.8350 | 77.6448 | 324.3 | 709.0 | 29.4 | 8.8 | 29.1 | 5.1 | 36.3 |
| 10960 | 42.8567 | 76.7844 | 159.1 | 609.6 | 26.7 | 10.4 | 26.6 | 4.3 | 33.7 |
| 11027 | 42.4635 | 77.3171 | 443.5 | 811.7 | 33.9 | 7.7 | 32.3 | 5.9 | 39.6 |
| 11105 | 42.2170 | 77.5427 | 646.2 | 1375.6 | 43.3 | 5.7 | 27.4 | 10.0 | 34.6 |
| 11126 | 42.2706 | 77.6401 | 473.4 | 1109.5 | 32.8 | 7.4 | 22.9 | 8.1 | 30.2 |
| 11129 | 43.1206 | 76.5475 | 123.4 | 931.2 | 29.4 | 10.8 | 18.7 | 6.8 | 26.0 |
| 11135 | 42.4539 | 77.6223 | 538.6 | 970.5 | 29.4 | 6.7 | 23.4 | 7.1 | 30.7 |
| 11135 | 42.4539 | 77.6223 | 538.6 | 969.6 | 29.4 | 6.7 | 18.0 | 7.1 | 25.3 |
| 11221 | 42.4843 | 77.0993 | 398.1 | 571.8 | 31.1 | 8.1 | 40.2 | 4.0 | 47.3 |
| 11402 | 42.6317 | 77.8273 | 297.5 | 882.4 | 34.4 | 9.1 | 28.7 | 6.4 | 36.0 |
| 11402 | 42.6317 | 77.8273 | 297.5 | 955.5 | 35.6 | 9.1 | 24.7 | 7.0 | 31.9 |
| 11403 | 42.7259 | 77.9528 | 334.1 | 791.6 | 30.0 | 8.7 | 26.9 | 5.7 | 34.1 |
| 11428 | 42.8973 | 77.1135 | 242.3 | 646.5 | 30.0 | 9.6 | 31.5 | 4.6 | 38.6 |
| 11462 | 42.2069 | 77.2509 | 462.1 | 1079.6 | 27.8 | 7.5 | 18.8 | 7.9 | 26.1 |
| 11543 | 42.4002 | 75.8491 | 424.9 | 1769.7 | 42.2 | 7.8 | 17.1 | 12.5 | 24.2 |
| 11561 | 42.4499 | 77.1976 | 357.8 | 679.7 | 30.0 | 8.5 | 31.6 | 4.9 | 38.8 |
| 11570 | 42.4753 | 77.2189 | 413.6 | 699.2 | 25.0 | 7.9 | 24.4 | 5.0 | 31.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 11609 | 42.9114 | 78.4340 | 283.5 | 438.9 | 24.7 | 9.2 | 35.2 | 3.0 | 41.9 |
| 11621 | 42.8992 | 78.4193 | 285.0 | 463.9 | 19.8 | 9.2 | 22.9 | 3.2 | 29.7 |
| 11624 | 42.8953 | 78.4145 | 291.1 | 468.7 | 17.8 | 9.1 | 18.4 | 3.2 | 25.2 |
| 11654 | 42.8985 | 76.2383 | 417.6 | 931.5 | 28.9 | 7.9 | 22.5 | 6.8 | 29.8 |
| 11655 | 42.9449 | 76.3073 | 344.4 | 794.6 | 26.7 | 8.6 | 22.7 | 5.7 | 29.9 |
| 11666 | 42.8453 | 76.7872 | 172.8 | 641.3 | 27.6 | 10.3 | 26.9 | 4.6 | 34.0 |
| 11699 | 42.8785 | 78.4250 | 289.6 | 511.5 | 21.1 | 9.2 | 23.4 | 3.5 | 30.3 |
| 11708 | 42.8387 | 76.7788 | 175.0 | 661.4 | 29.8 | 10.3 | 29.5 | 4.7 | 36.6 |
| 11754 | 42.3669 | 77.7257 | 545.6 | 1056.1 | 30.6 | 6.7 | 22.6 | 7.7 | 29.9 |
| 11776 | 42.8970 | 78.4073 | 295.7 | 488.3 | 21.7 | 9.1 | 25.7 | 3.4 | 32.6 |
| 11781 | 42.3056 | 77.1635 | 533.4 | 991.8 | 35.0 | 6.8 | 28.5 | 7.2 | 35.8 |
| 11921 | 42.3328 | 77.0290 | 446.5 | 882.4 | 28.3 | 7.6 | 23.5 | 6.4 | 30.7 |
| 11931 | 42.0748 | 76.5942 | 393.2 | 1297.2 | 40.6 | 8.1 | 25.0 | 9.4 | 32.3 |
| 11932 | 42.9400 | 78.3219 | 287.4 | 417.9 | 16.9 | 9.2 | 18.6 | 2.8 | 25.3 |
| 11939 | 42.2058 | 79.6179 | 512.1 | 1165.6 | 33.3 | 7.0 | 22.6 | 8.5 | 29.9 |
| 11946 | 42.9641 | 76.2258 | 291.1 | 707.7 | 24.4 | 9.1 | 21.6 | 5.1 | 28.8 |
| 11983 | 42.2235 | 77.5686 | 442.0 | 1147.3 | 31.7 | 7.7 | 20.9 | 8.4 | 28.2 |
| 12016 | 42.1453 | 77.6186 | 701.6 | 1506.3 | 41.7 | 5.1 | 24.3 | 10.8 | 31.5 |
| 12038 | 42.8896 | 77.3675 | 268.2 | 646.8 | 26.7 | 9.4 | 22.7 | 4.6 | 29.8 |
| 12041 | 42.8284 | 77.4262 | 313.9 | 408.1 | 25.6 | 8.9 | 40.8 | 2.7 | 47.4 |
| 12041 | 42.8284 | 77.4262 | 313.9 | 749.2 | 28.9 | 8.9 | 22.5 | 5.4 | 29.7 |
| 12042 | 42.8416 | 77.3904 | 347.8 | 464.2 | 23.9 | 8.6 | 33.0 | 3.2 | 39.8 |
| 12042 | 42.8416 | 77.3904 | 347.8 | 761.7 | 29.4 | 8.6 | 22.9 | 5.5 | 30.1 |
| 12051 | 42.8482 | 76.8079 | 164.0 | 814.4 | 33.1 | 10.4 | 27.8 | 5.9 | 35.1 |
| 12052 | 42.8546 | 76.7947 | 175.9 | 683.1 | 25.6 | 10.3 | 22.4 | 4.9 | 29.5 |
| 12053 | 42.8581 | 76.8019 | 167.0 | 675.7 | 24.4 | 10.4 | 20.8 | 4.8 | 28.0 |
| 12075 | 42.4495 | 77.6260 | 531.9 | 974.1 | 29.2 | 6.8 | 23.0 | 7.1 | 30.3 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 12148 | 42.7897 | 76.1735 | 556.9 | 1271.3 | 38.9 | 6.5 | 25.4 | 9.2 | 32.7 |
| 12149 | 42.6480 | 76.2949 | 483.1 | 1386.8 | 41.1 | 7.3 | 24.4 | 10.0 | 31.7 |
| 12039 | 42.8167 | 77.4505 | 417.6 | 862.6 | 29.4 | 7.9 | 25.0 | 6.3 | 32.2 |
| 12163 | 42.9371 | 76.3458 | 303.9 | 1274.4 | 37.2 | 9.0 | 22.1 | 9.3 | 29.4 |
| 12179 | 42.0087 | 77.0117 | 536.8 | 1216.2 | 37.8 | 6.7 | 25.5 | 8.9 | 32.8 |
| 12195 | 42.8686 | 77.5086 | 276.8 | 397.5 | 22.8 | 9.3 | 27.1 | 2.6 | 33.7 |
| 12195 | 42.8686 | 77.5086 | 276.8 | 647.7 | 25.0 | 9.3 | 20.1 | 4.6 | 27.2 |
| 12393 | 42.7716 | 77.4955 | 320.0 | 347.2 | 17.7 | 8.9 | 25.4 | 2.2 | 31.8 |
| 12398 | 43.4869 | 76.1886 | 119.2 | 554.4 | 23.3 | 10.8 | 22.5 | 3.9 | 29.5 |
| 12399 | 43.5088 | 76.1952 | 103.0 | 544.1 | 18.3 | 11.0 | 13.5 | 3.8 | 20.5 |
| 12402 | 42.3168 | 77.3823 | 521.5 | 1791.6 | 47.2 | 6.9 | 22.5 | 12.7 | 29.6 |
| 12406 | 43.5019 | 76.1995 | 100.0 | 547.1 | 22.8 | 11.0 | 21.5 | 3.8 | 28.5 |
| 12765 | 42.1981 | 77.6657 | 668.1 | 1417.6 | 37.5 | 5.5 | 22.6 | 10.3 | 29.8 |
| 12812 | 42.5839 | 76.9423 | 223.4 | 331.9 | 21.7 | 9.8 | 35.7 | 2.1 | 42.1 |
| 12812 | 42.5839 | 76.9423 | 223.4 | 419.7 | 22.2 | 9.8 | 24.4 | 2.8 | 31.1 |
| 12813 | 42.5884 | 76.9539 | 241.7 | 437.1 | 20.6 | 9.6 | 25.0 | 3.0 | 31.7 |
| 12848 | 42.8960 | 78.3902 | 304.8 | 483.1 | 18.9 | 9.0 | 14.3 | 3.3 | 21.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 12859 | 42.4089 | 76.8978 | 252.7 | 897.6 | 27.8 | 9.5 | 17.6 | 6.5 | 24.9 |
| 12893 | 42.9307 | 78.3328 | 279.8 | 417.6 | 16.6 | 9.3 | 17.5 | 2.8 | 24.2 |
| 12895 | 42.9549 | 78.3169 | 276.8 | 394.1 | 16.4 | 9.3 | 18.0 | 2.6 | 24.6 |
| 12931 | 42.2180 | 76.9893 | 489.5 | 1113.0 | 37.5 | 7.2 | 27.2 | 8.1 | 34.5 |
| 12960 | 42.3712 | 77.3893 | 404.2 | 911.0 | 27.8 | 8.0 | 21.7 | 6.6 | 28.9 |
| 12972 | 42.2341 | 77.3690 | 586.7 | 1271.6 | 35.6 | 6.2 | 23.0 | 9.3 | 30.3 |
| 13011 | 42.0265 | 77.5872 | 564.2 | 1516.7 | 42.8 | 6.5 | 23.9 | 10.9 | 31.1 |
| 13011 | 42.0265 | 77.5872 | 564.2 | 1563.6 | 42.8 | 6.5 | 23.2 | 11.2 | 30.4 |
| 13243 | 42.1876 | 77.0824 | 427.3 | 1078.4 | 37.2 | 7.8 | 27.3 | 7.9 | 34.6 |
| 13243 | 42.1876 | 77.0824 | 427.3 | 1091.8 | 38.9 | 7.8 | 28.5 | 8.0 | 35.8 |
| 13248 | 42.9384 | 78.3416 | 280.4 | 386.8 | 16.3 | 9.3 | 18.1 | 2.5 | 24.7 |
| 13249 | 42.9460 | 78.3337 | 277.4 | 386.5 | 19.4 | 9.3 | 26.3 | 2.5 | 32.9 |
| 13250 | 42.9449 | 78.3427 | 273.1 | 379.2 | 21.1 | 9.3 | 31.1 | 2.5 | 37.6 |
| 13271 | 42.9472 | 78.3035 | 277.7 | 392.6 | 20.0 | 9.3 | 20.4 | 2.6 | 27.0 |
| 13554 | 42.9358 | 76.6902 | 152.2 | 624.5 | 30.6 | 10.5 | 32.1 | 4.4 | 39.2 |
| 13555 | 43.0237 | 76.6320 | 148.1 | 595.0 | 25.6 | 10.5 | 25.2 | 4.2 | 32.3 |
| 13555 | 43.0237 | 76.6320 | 148.1 | 502.9 | 25.6 | 10.5 | 29.8 | 3.5 | 36.7 |
| 13563 | 42.9686 | 76.6514 | 153.9 | 612.6 | 22.8 | 10.5 | 20.1 | 4.3 | 27.1 |
| 13569 | 42.8862 | 77.9720 | 323.1 | 585.2 | 25.6 | 8.8 | 28.6 | 4.1 | 35.6 |
| 13569 | 42.8862 | 77.9720 | 323.1 | 584.3 | 25.6 | 8.8 | 28.6 | 4.1 | 35.7 |
| 13570 | 42.9273 | 77.9489 | 296.0 | 489.8 | 24.4 | 9.1 | 31.3 | 3.4 | 38.2 |
| 13572 | 42.8720 | 77.9679 | 331.9 | 609.6 | 26.1 | 8.7 | 28.5 | 4.3 | 35.6 |
| 13578 | 42.1551 | 77.6963 | 698.9 | 1497.2 | 43.3 | 5.2 | 25.5 | 10.8 | 32.7 |
| 13587 | 42.9012 | 76.6881 | 141.1 | 605.3 | 25.8 | 10.6 | 25.1 | 4.3 | 32.2 |
| 13588 | 42.8937 | 76.6876 | 162.2 | 594.4 | 24.3 | 10.4 | 23.4 | 4.2 | 30.5 |
| 13599 | 42.9086 | 76.6994 | 151.8 | 646.8 | 25.0 | 10.5 | 22.4 | 4.6 | 29.5 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13600 | 42.9521 | 76.6601 | 153.0 | 596.2 | 28.9 | 10.5 | 30.8 | 4.2 | 37.9 |
| 13637 | 42.9195 | 76.7053 | 157.0 | 621.5 | 28.1 | 10.5 | 28.3 | 4.4 | 35.4 |
| 13638 | 42.9163 | 76.6953 | 155.4 | 626.7 | 26.7 | 10.5 | 25.8 | 4.4 | 32.9 |
| 13644 | 42.9569 | 76.6542 | 158.2 | 602.3 | 19.7 | 10.4 | 15.4 | 4.3 | 22.5 |
| 13644 | 42.9569 | 76.6542 | 158.2 | 602.3 | 20.0 | 10.4 | 15.9 | 4.3 | 22.9 |
| 13646 | 42.9107 | 76.6693 | 149.4 | 613.6 | 26.7 | 10.5 | 26.3 | 4.3 | 33.4 |
| 13655 | 42.9252 | 76.6683 | 157.3 | 622.4 | 23.9 | 10.5 | 19.1 | 4.4 | 26.2 |
| 13672 | 42.9935 | 77.9516 | 240.8 | 1281.1 | 40.6 | 9.6 | 24.1 | 9.3 | 31.4 |
| 13675 | 42.8647 | 76.8380 | 155.4 | 767.5 | 30.0 | 10.5 | 25.4 | 5.5 | 32.7 |
| 13676 | 42.8556 | 76.8375 | 161.5 | 701.0 | 23.3 | 10.4 | 18.4 | 5.0 | 25.6 |
| 13689 | 42.8485 | 76.8473 | 173.7 | 719.9 | 28.3 | 10.3 | 22.7 | 5.2 | 29.9 |
| 13690 | 42.0876 | 77.6142 | 698.0 | 1534.7 | 46.7 | 5.2 | 27.0 | 11.0 | 34.2 |
| 13690 | 42.0876 | 77.6142 | 698.0 | 1534.7 | 46.1 | 5.2 | 26.7 | 11.0 | 33.9 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 1176.5 | 37.8 | 6.5 | 26.6 | 8.6 | 33.9 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 1419.1 | 38.9 | 6.5 | 22.9 | 10.3 | 30.1 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 2810.6 | 64.4 | 6.5 | 20.6 | 17.5 | 26.8 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 2986.7 | 67.8 | 6.5 | 20.5 | 18.0 | 26.6 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 1177.7 | 37.8 | 6.5 | 26.6 | 8.6 | 33.9 |
| 13699 | 42.4663 | 77.2654 | 566.3 | 2989.5 | 67.8 | 6.5 | 20.5 | 18.0 | 26.5 |
| 13700 | 42.6974 | 77.8921 | 266.1 | 793.7 | 30.6 | 9.4 | 26.7 | 5.7 | 33.9 |
| 13700 | 42.6974 | 77.8921 | 266.1 | 1946.8 | 47.8 | 9.4 | 19.7 | 13.6 | 26.7 |
| 13736 | 42.4350 | 72.4091 | 453.2 | 1464.0 | 38.9 | 7.6 | 21.4 | 10.6 | 28.6 |
| 13736 | 42.4350 | 72.4091 | 453.2 | 1478.0 | 38.3 | 7.6 | 20.8 | 10.7 | 28.0 |
| 13739 | 42.8761 | 76.6862 | 141.7 | 672.1 | 28.3 | 10.6 | 26.4 | 4.8 | 33.5 |
| 13796 | 42.3889 | 76.9326 | 422.8 | 740.7 | 24.4 | 7.9 | 22.4 | 5.3 | 29.6 |
| 13841 | 42.7338 | 77.9528 | 326.1 | 804.7 | 29.4 | 8.8 | 21.7 | 5.8 | 28.9 |
| 13846 | 42.9680 | 78.2921 | 271.3 | 369.4 | 15.6 | 9.3 | 16.8 | 2.4 | 23.3 |
| 13850 | 42.9593 | 78.3354 | 274.3 | 385.9 | 15.6 | 9.3 | 16.2 | 2.5 | 22.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13853 | 42.9677 | 78.3047 | 271.3 | 364.2 | 15.6 | 9.3 | 17.1 | 2.4 | 23.6 |
| 13856 | 42.9393 | 78.3540 | 295.7 | 395.9 | 16.7 | 9.1 | 19.1 | 2.6 | 25.7 |
| 13867 | 42.7635 | 77.9055 | 230.1 | 659.0 | 27.8 | 9.7 | 23.9 | 4.7 | 31.1 |
| 13883 | 42.9467 | 78.2925 | 278.9 | 407.2 | 15.6 | 9.3 | 15.4 | 2.7 | 22.1 |
| 13885 | 42.9596 | 78.2943 | 280.4 | 385.6 | 15.6 | 9.3 | 16.3 | 2.5 | 22.9 |
| 13901 | 41.9614 | 78.2826 | 277.4 | 402.3 | 15.8 | 9.3 | 16.3 | 2.7 | 22.9 |
| 13917 | 42.9163 | 78.3346 | 313.9 | 480.1 | 26.7 | 8.9 | 37.0 | 3.3 | 43.8 |
| 13918 | 42.9805 | 78.3047 | 275.8 | 370.6 | 15.6 | 9.3 | 16.9 | 2.4 | 23.4 |
| 13950 | 42.7454 | 77.9439 | 323.1 | 785.2 | 23.9 | 8.8 | 15.1 | 5.7 | 22.4 |
| 13961 | 42.9127 | 77.9674 | 283.5 | 520.3 | 20.0 | 9.2 | 20.7 | 3.6 | 27.7 |
| 13966 | 42.9217 | 77.9665 | 281.3 | 510.2 | 20.0 | 9.2 | 21.1 | 3.5 | 28.0 |
| 13967 | 42.8337 | 77.9320 | 278.3 | 499.3 | 18.1 | 9.3 | 17.6 | 3.4 | 24.5 |
| 13972 | 43.9543 | 78.2534 | 283.5 | 407.5 | 16.3 | 9.2 | 17.5 | 2.7 | 24.1 |
| 13973 | 42.9391 | 78.2938 | 283.5 | 421.8 | 16.9 | 9.2 | 18.3 | 2.8 | 25.0 |
| 13980 | 42.7247 | 77.9332 | 283.5 | 763.5 | 22.8 | 9.2 | 17.8 | 5.5 | 25.0 |
| 13981 | 42.9427 | 78.2821 | 278.9 | 418.8 | 17.5 | 9.3 | 19.7 | 2.8 | 26.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 9848 | 42.0758 | 76.4520 | 393.8 | 1593.5 | 70.0 | 8.1 | 38.8 | 11.4 | 46.0 |
| 10024 | 42.4431 | 77.6059 | 621.8 | 1051.0 | 30.1 | 5.9 | 23.0 | 7.7 | 30.3 |
| 10036 | 42.2029 | 77.6630 | 616.0 | 1403.0 | 36.7 | 6.0 | 21.9 | 10.2 | 29.1 |
| 10107 | 42.2425 | 77.5136 | 584.6 | 1250.6 | 47.8 | 6.3 | 33.2 | 9.1 | 40.5 |
| 10107 | 42.2425 | 77.5136 | 584.6 | 1250.3 | 48.3 | 6.3 | 33.6 | 9.1 | 40.9 |
| 10243 | 42.4011 | 76.6686 | 561.1 | 1119.8 | 32.2 | 6.5 | 23.0 | 8.2 | 30.3 |
| 10246 | 42.2014 | 77.6555 | 637.6 | 1406.3 | 41.7 | 5.8 | 25.5 | 10.2 | 32.8 |
| 10259 | 42.2442 | 77.2167 | 323.1 | 887.3 | 28.3 | 8.8 | 22.0 | 6.5 | 29.2 |
| 10335 | 42.1690 | 76.6590 | 432.2 | 1678.8 | 47.8 | 7.8 | 21.3 | 12.0 | 28.4 |
| 10335 | 42.1690 | 76.6590 | 432.2 | 3229.1 | 74.4 | 7.8 | 19.3 | 18.5 | 25.1 |
| 16123 | 42.8873 | 76.6629 | 162.2 | 548.6 | 28.3 | 10.4 | 32.7 | 3.8 | 39.7 |
| 16127 | 42.9334 | 76.6907 | 156.1 | 609.6 | 22.8 | 10.5 | 17.7 | 4.3 | 24.8 |
| 16149 | 42.9058 | 76.6670 | 152.4 | 525.2 | 32.8 | 10.5 | 42.4 | 3.6 | 49.4 |
| 16151 | 42.8910 | 76.6674 | 161.5 | 534.0 | 28.9 | 10.4 | 34.6 | 3.7 | 41.6 |
| 16189 | 42.9253 | 77.9112 | 266.7 | 501.4 | 23.9 | 9.4 | 28.9 | 3.5 | 35.8 |
| 16190 | 42.9142 | 77.8534 | 237.7 | 496.2 | 20.6 | 9.7 | 21.9 | 3.4 | 28.8 |
| 16191 | 42.9509 | 77.9044 | 251.5 | 446.8 | 21.1 | 9.5 | 25.9 | 3.0 | 32.7 |
| 16192 | 42.9560 | 77.8892 | 224.0 | 420.0 | 18.9 | 9.8 | 21.6 | 2.8 | 28.3 |
| 16193 | 42.9204 | 77.8888 | 240.8 | 488.6 | 23.9 | 9.6 | 29.2 | 3.4 | 36.0 |
| 16194 | 42.9444 | 77.8935 | 253.0 | 478.5 | 23.9 | 9.5 | 30.0 | 3.3 | 36.9 |
| 16196 | 42.9217 | 77.8977 | 249.9 | 492.3 | 22.8 | 9.6 | 26.9 | 3.4 | 33.8 |
| 16197 | 42.9152 | 77.9324 | 281.9 | 526.7 | 21.7 | 9.2 | 23.6 | 3.7 | 30.6 |
| 16198 | 42.8752 | 77.9238 | 277.4 | 519.1 | 39.4 | 9.3 | 58.1 | 3.6 | 65.0 |
| 16199 | 42.9154 | 77.9143 | 271.3 | 502.3 | 37.8 | 9.3 | 56.6 | 3.5 | 63.5 |
| 16335 | 42.8004 | 76.5786 | 336.8 | 994.6 | 30.6 | 8.7 | 22.0 | 7.3 | 29.3 |
| 16844 | 42.8259 | 76.5817 | 308.5 | 935.7 | 23.9 | 9.0 | 15.9 | 6.8 | 23.2 |
| 16991 | 42.8540 | 76.6934 | 133.5 | 659.3 | 27.8 | 10.7 | 25.9 | 4.7 | 33.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 17301 | 42.9159 | 77.9025 | 256.0 | 517.9 | 22.8 | 9.5 | 25.7 | 3.6 | 32.6 |
| 17302 | 42.9031 | 77.9271 | 280.4 | 533.1 | 25.6 | 9.3 | 30.6 | 3.7 | 37.5 |
| 17303 | 42.9218 | 77.8520 | 236.2 | 493.8 | 26.7 | 9.7 | 34.4 | 3.4 | 41.3 |
| 17304 | 42.9077 | 77.9311 | 280.4 | 546.8 | 31.1 | 9.3 | 40.0 | 3.8 | 47.0 |
| 17312 | 42.9077 | 77.8946 | 245.4 | 506.6 | 25.6 | 9.6 | 31.5 | 3.5 | 38.4 |
| 17316 | 42.9364 | 77.9155 | 272.8 | 507.8 | 30.0 | 9.3 | 40.7 | 3.5 | 47.6 |
| 17317 | 42.8863 | 78.3641 | 349.9 | 542.8 | 24.4 | 8.6 | 29.2 | 3.8 | 36.2 |
| 17318 | 42.0819 | 76.7729 | 325.5 | 922.0 | 34.7 | 8.8 | 28.1 | 6.7 | 35.4 |
| 17334 | 43.0074 | 78.3092 | 268.2 | 336.2 | 13.9 | 9.4 | 13.4 | 2.1 | 19.8 |
| 17335 | 42.9108 | 78.3644 | 296.6 | 443.5 | 17.2 | 9.1 | 18.3 | 3.0 | 25.1 |
| 17340 | 42.9108 | 78.3693 | 293.5 | 456.9 | 16.7 | 9.1 | 16.5 | 3.1 | 23.3 |
| 17356 | 42.9120 | 77.9262 | 281.9 | 531.0 | 25.6 | 9.2 | 30.7 | 3.7 | 37.7 |
| 17357 | 42.9103 | 77.9104 | 271.3 | 521.5 | 24.4 | 9.3 | 29.0 | 3.6 | 35.9 |
| 17359 | 42.8914 | 77.9246 | 272.8 | 549.9 | 21.1 | 9.3 | 21.4 | 3.8 | 28.4 |
| 17360 | 43.0180 | 78.2920 | 271.3 | 334.1 | 13.9 | 9.3 | 13.6 | 2.1 | 20.0 |
| 17363 | 42.9255 | 77.9207 | 274.3 | 495.0 | 22.2 | 9.3 | 26.1 | 3.4 | 33.0 |
| 17365 | 42.8714 | 78.3536 | 362.7 | 563.9 | 20.0 | 8.4 | 20.5 | 4.0 | 27.5 |
| 17367 | 42.9829 | 78.1788 | 273.9 | 391.7 | 15.7 | 9.3 | 16.4 | 2.6 | 23.0 |
| 17373 | 42.8848 | 77.9026 | 265.2 | 549.9 | 23.9 | 9.4 | 26.3 | 3.8 | 33.3 |
| 17375 | 42.8900 | 77.8904 | 262.1 | 531.6 | 25.0 | 9.4 | 29.3 | 3.7 | 36.2 |
| 17376 | 42.0285 | 77.7048 | 684.0 | 1566.4 | 46.7 | 5.3 | 26.4 | 11.2 | 33.6 |
| 17396 | 42.8793 | 78.3696 | 356.6 | 549.9 | 20.2 | 8.5 | 21.3 | 3.8 | 28.3 |
| 17397 | 42.8994 | 78.3607 | 313.9 | 484.9 | 16.6 | 8.9 | 15.9 | 3.3 | 22.7 |
| 17398 | 42.8864 | 78.3500 | 335.3 | 517.6 | 18.9 | 8.7 | 19.7 | 3.6 | 26.6 |
| 17400 | 42.8847 | 77.8940 | 249.9 | 539.5 | 23.9 | 9.6 | 26.6 | 3.8 | 33.6 |
| 17403 | 42.9119 | 77.8623 | 231.6 | 480.1 | 25.6 | 9.7 | 33.0 | 3.3 | 39.8 |
| 17404 | 42.9078 | 77.8710 | 222.5 | 486.5 | 23.3 | 9.8 | 27.8 | 3.3 | 34.7 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 17405 | 42.8890 | 77.9071 | 274.3 | 537.4 | 23.9 | 9.3 | 27.1 | 3.7 | 34.1 |
| 17406 | 42.9170 | 77.8671 | 221.0 | 467.9 | 24.4 | 9.8 | 31.2 | 3.2 | 38.1 |
| 17412 | 42.9645 | 78.2769 | 274.3 | 391.4 | 16.1 | 9.3 | 17.4 | 2.6 | 24.0 |
| 17427 | 42.9008 | 77.8568 | 217.9 | 474.0 | 18.3 | 9.9 | 17.9 | 3.2 | 24.7 |
| 17428 | 42.9015 | 77.8691 | 217.9 | 475.5 | 20.6 | 9.9 | 22.5 | 3.3 | 29.3 |
| 17442 | 42.8725 | 76.6878 | 139.9 | 572.1 | 27.1 | 10.6 | 28.7 | 4.0 | 35.7 |
| 17447 | 42.9081 | 77.8155 | 176.8 | 450.5 | 18.9 | 10.3 | 19.1 | 3.1 | 25.9 |
| 17452 | 42.9119 | 77.8888 | 231.6 | 484.0 | 18.3 | 9.7 | 17.8 | 3.3 | 24.6 |
| 17453 | 42.9263 | 77.9021 | 249.9 | 477.3 | 20.0 | 9.6 | 21.9 | 3.3 | 28.7 |
| 17454 | 42.8942 | 78.3650 | 320.6 | 498.0 | 17.7 | 8.9 | 17.7 | 3.4 | 24.6 |
| 17459 | 42.9320 | 77.8890 | 242.3 | 465.4 | 18.3 | 9.6 | 18.7 | 3.2 | 25.5 |
| 17464 | 42.1831 | 77.5742 | 685.8 | 1435.0 | 34.2 | 5.3 | 20.1 | 10.4 | 27.4 |
| 17476 | 42.8836 | 78.4360 | 316.1 | 497.1 | 20.6 | 8.9 | 23.4 | 3.4 | 30.3 |
| 17477 | 42.8813 | 78.4416 | 310.9 | 489.5 | 20.5 | 9.0 | 23.6 | 3.4 | 30.5 |
| 17478 | 42.9376 | 77.8863 | 233.2 | 469.4 | 23.9 | 9.7 | 30.2 | 3.2 | 37.0 |
| 17486 | 42.8750 | 78.4437 | 320.0 | 507.2 | 21.1 | 8.9 | 24.1 | 3.5 | 31.1 |
| 17490 | 42.8915 | 78.3990 | 304.8 | 485.9 | 20.6 | 9.0 | 23.8 | 3.3 | 30.6 |
| 17494 | 42.9274 | 78.3994 | 271.3 | 407.2 | 18.9 | 9.3 | 23.4 | 2.7 | 30.1 |
| 17495 | 42.9248 | 78.4178 | 265.2 | 418.5 | 21.1 | 9.4 | 28.0 | 2.8 | 34.7 |
| 17499 | 42.8957 | 78.3832 | 307.2 | 490.1 | 18.9 | 9.0 | 20.2 | 3.4 | 27.1 |
| 17503 | 42.9196 | 77.9074 | 262.1 | 504.1 | 23.3 | 9.4 | 27.6 | 3.5 | 34.5 |
| 17505 | 42.8997 | 78.2649 | 295.7 | 513.0 | 21.1 | 9.1 | 17.8 | 3.6 | 24.7 |
| 17506 | 42.8713 | 78.3803 | 362.1 | 557.2 | 20.4 | 8.5 | 21.4 | 3.9 | 28.4 |
| 17507 | 42.8738 | 78.3606 | 371.6 | 570.0 | 20.0 | 8.4 | 20.4 | 4.0 | 27.4 |
| 17508 | 43.1290 | 76.5616 | 134.4 | 162.2 | 23.9 | 10.7 | 81.4 | 0.7 | 86.0 |
| 17508 | 43.1290 | 76.5616 | 133.5 | 1116.5 | 33.3 | 10.7 | 19.1 | 8.1 | 26.4 |
| 17508 | 43.1290 | 76.5616 | 133.5 | 1061.9 | 47.8 | 10.7 | 33.7 | 7.7 | 41.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 17510 | 43.1384 | 76.5521 | 274.3 | 1036.0 | 33.9 | 9.3 | 21.1 | 7.6 | 28.4 |
| 17510 | 43.1384 | 76.5521 | 221.0 | 1113.4 | 35.6 | 9.8 | 21.2 | 8.1 | 28.5 |
| 17510 | 43.1384 | 76.5521 | 274.3 | 68.3 | 37.0 | 9.3 | 385.8 | 0.0 | 385.3 |
| 17513 | 42.1380 | 77.4401 | 217.9 | 1391.4 | 37.2 | 9.9 | 21.9 | 10.1 | 29.1 |
| 17517 | 42.9207 | 76.6827 | 217.9 | 611.1 | 25.6 | 9.9 | 24.7 | 4.3 | 31.8 |
| 17518 | 42.9031 | 77.9195 | 139.9 | 546.5 | 23.9 | 10.6 | 26.7 | 3.8 | 33.7 |
| 17519 | 42.8958 | 77.8543 | 176.8 | 494.7 | 18.3 | 10.3 | 16.9 | 3.4 | 23.8 |
| 17520 | 42.9259 | 77.8852 | 231.6 | 480.1 | 20.2 | 9.7 | 21.9 | 3.3 | 28.8 |
| 17522 | 42.9003 | 77.8891 | 249.9 | 504.1 | 20.6 | 9.6 | 21.5 | 3.5 | 28.4 |
| 17523 | 42.8952 | 77.8865 | 320.6 | 529.1 | 23.9 | 8.9 | 27.0 | 3.7 | 34.0 |
| 17530 | 42.0890 | 77.2386 | 242.3 | 1382.6 | 37.8 | 9.6 | 21.5 | 10.0 | 28.8 |
| 17532 | 42.9105 | 77.9371 | 685.8 | 530.7 | 23.9 | 5.3 | 22.4 | 3.7 | 29.4 |
| 17534 | 42.1904 | 77.7022 | 316.1 | 1409.4 | 41.1 | 8.9 | 24.8 | 10.2 | 32.0 |
| 17535 | 42.2107 | 77.2234 | 310.9 | 1148.2 | 35.6 | 9.0 | 24.7 | 8.4 | 31.9 |
| 17539 | 42.2048 | 77.0365 | 233.2 | 1074.1 | 29.4 | 9.7 | 20.1 | 7.8 | 27.3 |
| 17540 | 46.6053 | 77.0163 | 320.0 | 1141.5 | 35.6 | 8.9 | 23.8 | 8.3 | 31.1 |
| 17541 | 42.5606 | 77.0109 | 304.8 | 482.8 | 25.6 | 9.0 | 35.0 | 3.3 | 41.9 |
| 17541 | 42.5606 | 77.0109 | 271.3 | 482.8 | 36.1 | 9.3 | 56.9 | -0.6 | 55.7 |
| 17543 | 43.9215 | 78.3799 | 265.2 | 429.5 | 15.9 | 9.4 | 15.8 | 2.9 | 22.5 |
| 17544 | 42.6827 | 77.0023 | 307.2 | 949.5 | 31.7 | 9.0 | 23.4 | 6.9 | 30.7 |
| 17544 | 42.6827 | 77.0023 | 262.1 | 381.0 | 21.1 | 9.4 | 23.9 | 2.5 | 30.5 |
| 17546 | 43.0245 | 78.2613 | 295.7 | 324.3 | 32.2 | 9.1 | 70.6 | 2.0 | 77.0 |
| 17550 | 43.0337 | 78.3225 | 362.1 | 312.1 | 20.8 | 8.5 | 36.8 | 1.9 | 43.1 |
| 17553 | 42.9228 | 78.3162 | 371.6 | 472.1 | 20.4 | 8.4 | 24.5 | 3.2 | 31.3 |
| 17554 | 42.9332 | 78.3114 | 134.4 | 426.1 | 16.0 | 10.7 | 15.9 | 2.9 | 22.6 |
| 17555 | 42.9955 | 76.4959 | 133.5 | 623.0 | 25.6 | 10.7 | 25.1 | 4.4 | 32.2 |
| 17556 | 42.9234 | 76.4856 | 133.5 | 765.0 | 26.7 | 10.7 | 22.9 | 5.5 | 30.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 17557 | 42.8576 | 76.5360 | 179.8 | 819.0 | 27.8 | 10.2 | 19.3 | 5.9 | 26.5 |
| 17558 | 43.0111 | 76.5214 | 179.8 | 1389.3 | 48.9 | 10.2 | 27.8 | 10.1 | 35.1 |
| 17558 | 43.0111 | 76.5214 | 179.8 | 1389.3 | 38.3 | 10.2 | 20.2 | -0.6 | 19.8 |
| 17559 | 42.9243 | 76.6992 | 152.4 | 1532.2 | 38.9 | 10.5 | 18.5 | 11.0 | 25.7 |
| 17567 | 42.8669 | 76.8529 | 162.2 | 659.6 | 24.4 | 10.4 | 21.3 | 4.7 | 28.4 |
| 17574 | 42.8374 | 76.8616 | 194.2 | 717.2 | 26.7 | 10.1 | 23.1 | 5.2 | 30.3 |
| 17578 | 42.8603 | 76.8289 | 161.8 | 642.5 | 22.8 | 10.4 | 19.2 | 4.6 | 26.4 |
| 17590 | 42.9373 | 78.4493 | 267.0 | 394.4 | 18.3 | 9.4 | 16.1 | 2.6 | 22.7 |
| 17591 | 42.9349 | 78.4538 | 266.1 | 395.0 | 18.3 | 9.4 | 16.0 | 2.6 | 22.7 |
| 17592 | 42.9157 | 78.3862 | 292.3 | 440.7 | 16.5 | 9.1 | 16.7 | 3.0 | 23.5 |
| 17595 | 42.9285 | 76.6812 | 155.7 | 572.4 | 22.8 | 10.5 | 21.5 | 4.0 | 28.5 |
| 17598 | 42.9244 | 76.6894 | 163.1 | 118.3 | 24.4 | 10.4 | 118.7 | 0.4 | 121.9 |
| 17599 | 42.9250 | 76.6811 | 157.4 | 563.9 | 23.8 | 10.5 | 23.6 | 4.0 | 30.6 |
| 17788 | 42.1087 | 76.1113 | 345.9 | 1357.3 | 37.8 | 8.6 | 21.5 | 9.8 | 28.7 |
| 19403 | 42.5608 | 77.0309 | 425.5 | 599.8 | 22.2 | 7.8 | 24.0 | 4.2 | 31.1 |
| 19403 | 42.5608 | 77.0309 | 425.5 | 1286.0 | 36.7 | 7.8 | 19.2 | 9.4 | 26.5 |
| 19407 | 42.9373 | 77.9239 | 259.1 | 481.3 | 20.6 | 9.5 | 23.1 | 3.3 | 29.9 |
| 19408 | 42.8941 | 77.9098 | 274.3 | 541.9 | 21.7 | 9.3 | 22.8 | 3.8 | 29.8 |
| 19409 | 42.9073 | 77.9235 | 285.0 | 546.5 | 22.2 | 9.2 | 23.8 | 3.8 | 30.8 |
| 19411 | 42.9167 | 78.2268 | 291.1 | 490.7 | 22.2 | 9.1 | 26.6 | 3.4 | 33.5 |
| 19414 | 42.8427 | 76.8645 | 199.6 | 720.5 | 27.2 | 10.0 | 23.8 | 5.2 | 31.0 |
| 19420 | 42.8282 | 77.0516 | 190.5 | 576.4 | 23.3 | 10.1 | 22.9 | 4.1 | 29.9 |
| 19434 | 42.0822 | 77.7023 | 702.3 | 551.1 | 22.2 | 5.1 | 18.5 | 3.9 | 25.5 |
| 19460 | 42.8133 | 76.9030 | 168.2 | 756.5 | 27.8 | 10.4 | 23.0 | 5.5 | 30.2 |
| 19461 | 42.7938 | 76.9046 | 175.6 | 765.0 | 26.7 | 10.3 | 21.4 | 5.5 | 28.6 |
| 19463 | 42.7964 | 76.8842 | 207.3 | 844.0 | 28.3 | 10.0 | 21.8 | 6.1 | 29.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 19464 | 42.8043 | 76.8907 | 182.9 | 811.4 | 28.9 | 10.2 | 23.0 | 5.9 | 30.3 |
| 19467 | 42.8381 | 76.8842 | 173.4 | 764.1 | 29.4 | 10.3 | 25.1 | 5.5 | 32.3 |
| 19470 | 42.8052 | 76.8618 | 201.2 | 1025.3 | 34.2 | 10.0 | 23.5 | 7.5 | 30.8 |
| 19482 | 42.7918 | 76.8739 | 199.6 | 776.3 | 31.7 | 10.0 | 27.9 | 5.6 | 35.1 |
| 19484 | 42.7029 | 76.2662 | 550.5 | 1702.6 | 46.1 | 6.6 | 23.2 | 12.1 | 30.3 |
| 19485 | 42.8089 | 75.4189 | 539.5 | 1550.5 | 43.9 | 6.7 | 24.0 | 11.1 | 31.2 |
| 19496 | 42.2078 | 77.0283 | 507.2 | 1228.3 | 38.2 | 7.0 | 25.3 | 8.9 | 32.6 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2402.4 | 56.1 | 7.1 | 20.4 | 15.9 | 27.0 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 782.4 | 27.2 | 7.1 | 25.7 | 5.7 | 33.0 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2202.5 | 56.1 | 7.1 | 22.3 | 14.9 | 29.0 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2224.1 | 56.1 | 7.1 | 22.0 | 15.0 | 28.8 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2330.5 | 56.1 | 7.1 | 21.0 | 15.6 | 27.7 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2395.1 | 56.1 | 7.1 | 20.5 | 15.8 | 27.1 |
| 19497 | 42.5407 | 77.2163 | 501.1 | 2398.2 | 56.1 | 7.1 | 20.4 | 15.9 | 27.1 |
| 19504 | 42.8040 | 76.9057 | 178.3 | 791.6 | 28.3 | 10.3 | 22.8 | 5.7 | 30.1 |
| 19509 | 42.9158 | 78.1750 | 333.8 | 531.6 | 21.7 | 8.7 | 24.3 | 3.7 | 31.3 |
| 19511 | 42.9163 | 78.1583 | 325.2 | 507.2 | 21.1 | 8.8 | 24.2 | 3.5 | 31.2 |
| 19512 | 42.9158 | 78.1140 | 321.6 | 502.9 | 16.4 | 8.8 | 15.0 | 3.5 | 21.9 |
| 19514 | 42.9390 | 78.1065 | 301.1 | 442.6 | 20.0 | 9.0 | 24.7 | 3.0 | 31.5 |
| 19515 | 42.9133 | 78.1290 | 323.4 | 502.9 | 21.1 | 8.8 | 24.4 | 3.5 | 31.3 |
| 19521 | 42.9119 | 78.1483 | 341.1 | 520.3 | 25.0 | 8.7 | 31.4 | 3.6 | 38.4 |
| 19523 | 42.9148 | 78.1416 | 338.3 | 506.3 | 21.1 | 8.7 | 24.5 | 3.5 | 31.5 |
| 19524 | 42.9152 | 78.1066 | 321.0 | 495.3 | 21.1 | 8.9 | 24.7 | 3.4 | 31.6 |
| 19525 | 42.9479 | 78.1144 | 303.3 | 447.8 | 20.4 | 9.0 | 25.4 | 3.0 | 32.2 |
| 19526 | 42.9415 | 78.1137 | 304.8 | 454.8 | 23.9 | 9.0 | 32.7 | 3.1 | 39.5 |
| 19528 | 42.9181 | 78.1358 | 337.4 | 499.3 | 20.6 | 8.7 | 23.8 | 3.4 | 30.7 |
| 19529 | 42.9224 | 78.1311 | 321.0 | 483.4 | 21.1 | 8.9 | 25.4 | 3.3 | 32.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 19530 | 42.9269 | 78.1347 | 324.6 | 484.9 | 15.6 | 8.8 | 13.9 | 3.3 | 20.8 |
| 19535 | 42.8232 | 76.8964 | 160.9 | 764.1 | 31.1 | 10.4 | 27.1 | 5.5 | 34.3 |
| 19540 | 42.5544 | 76.0209 | 476.1 | 953.7 | 30.6 | 7.3 | 24.3 | 6.9 | 31.6 |
| 19540 | 42.5544 | 76.0209 | 476.1 | 2375.0 | 56.7 | 7.3 | 20.8 | 15.8 | 27.4 |
| 19541 | 42.8024 | 76.8752 | 195.1 | 768.7 | 26.7 | 10.1 | 21.6 | 5.5 | 28.8 |
| 19544 | 42.7985 | 76.9021 | 181.4 | 759.9 | 26.7 | 10.2 | 21.6 | 5.5 | 28.9 |
| 19550 | 42.8067 | 76.8189 | 208.8 | 775.1 | 26.7 | 10.0 | 21.6 | 5.6 | 28.8 |
| 19552 | 42.9199 | 78.1443 | 344.4 | 492.3 | 21.1 | 8.6 | 25.4 | 3.4 | 32.3 |
| 19573 | 42.8735 | 75.3717 | 463.3 | 702.6 | 25.6 | 7.5 | 25.8 | 5.0 | 32.9 |
| 19578 | 42.8767 | 75.3932 | 378.0 | 595.6 | 23.0 | 8.3 | 24.7 | 4.2 | 31.7 |
| 19583 | 42.8512 | 76.8985 | 153.6 | 655.9 | 24.4 | 10.5 | 21.3 | 4.7 | 28.4 |
| 19584 | 42.8664 | 76.8837 | 165.2 | 648.3 | 23.9 | 10.4 | 20.8 | 4.6 | 27.9 |
| 19585 | 42.9846 | 76.9139 | 144.5 | 542.8 | 22.8 | 10.6 | 22.5 | 4.1 | 30.0 |
| 19586 | 42.9406 | 76.7989 | 154.8 | 542.8 | 21.7 | 10.5 | 20.6 | 3.8 | 27.6 |
| 19587 | 42.9917 | 76.8479 | 149.4 | 511.8 | 17.3 | 10.5 | 13.3 | 3.5 | 20.2 |
| 19589 | 42.7582 | 76.7953 | 192.9 | 824.5 | 28.3 | 10.1 | 19.8 | 6.0 | 27.1 |
| 19590 | 42.7910 | 76.8609 | 198.1 | 761.4 | 23.3 | 10.1 | 17.4 | 5.5 | 24.6 |
| 19592 | 42.8810 | 76.6853 | 140.2 | 614.5 | 22.8 | 10.6 | 19.8 | 4.4 | 26.9 |
| 19597 | 42.7832 | 76.8429 | 208.5 | 844.9 | 28.3 | 10.0 | 21.7 | 6.1 | 29.0 |
| 19599 | 42.8821 | 76.6909 | 128.0 | 623.9 | 22.2 | 10.7 | 18.4 | 4.4 | 25.5 |
| 19609 | 42.7405 | 77.9239 | 426.7 | 732.1 | 25.6 | 7.8 | 24.2 | 5.3 | 31.4 |
| 19610 | 42.7588 | 77.9548 | 324.6 | 747.1 | 26.1 | 8.8 | 18.9 | 5.4 | 26.1 |
| 19611 | 42.7547 | 77.9498 | 320.0 | 751.3 | 26.1 | 8.9 | 18.8 | 5.4 | 26.0 |
| 19612 | 42.7557 | 77.9439 | 306.3 | 721.2 | 26.1 | 9.0 | 19.6 | 5.2 | 26.8 |
| 19621 | 42.8006 | 76.8549 | 205.1 | 774.2 | 28.3 | 10.0 | 23.7 | 5.6 | 30.9 |
| 19623 | 42.7908 | 76.8940 | 180.4 | 765.0 | 28.3 | 10.2 | 23.7 | 5.5 | 30.9 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 19624 | 42.7915 | 76.8486 | 207.6 | 774.8 | 23.9 | 10.0 | 18.0 | 5.6 | 25.2 |
| 19627 | 43.0186 | 78.3949 | 256.9 | 310.0 | 16.7 | 9.5 | 23.2 | 1.9 | 29.4 |
| 19629 | 42.9189 | 78.3111 | 324.0 | 483.1 | 20.6 | 8.8 | 24.3 | 3.3 | 31.1 |
| 19631 | 42.8138 | 76.9100 | 166.1 | 775.4 | 24.4 | 10.4 | 18.1 | 5.6 | 25.4 |
| 19633 | 42.7442 | 77.9213 | 277.4 | 730.9 | 24.4 | 9.3 | 17.0 | 5.3 | 24.2 |
| 19634 | 42.9444 | 76.7200 | 134.1 | 555.0 | 22.8 | 10.7 | 21.8 | 3.9 | 28.8 |
| 19635 | 42.9397 | 76.7135 | 143.3 | 554.7 | 19.4 | 10.6 | 16.0 | 3.9 | 22.9 |
| 19636 | 42.9373 | 76.7096 | 146.3 | 546.2 | 23.3 | 10.6 | 23.4 | 3.8 | 30.4 |
| 19637 | 42.9338 | 76.7105 | 144.8 | 546.5 | 23.3 | 10.6 | 23.3 | 3.8 | 30.3 |
| 19638 | 42.9388 | 76.6960 | 158.5 | 536.4 | 22.8 | 10.4 | 23.0 | 3.7 | 30.0 |
| 19639 | 42.9338 | 76.7009 | 161.5 | 551.4 | 22.2 | 10.4 | 21.4 | 3.9 | 28.4 |
| 19640 | 42.9290 | 76.7057 | 155.4 | 550.2 | 22.2 | 10.5 | 21.3 | 3.8 | 28.3 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 20531 | 42.0335 | 76.2227 | 452.6 | 1649.0 | 38.9 | 7.6 | 19.0 | 11.8 | 26.1 |
| 20532 | 42.0565 | 76.2419 | 384.0 | 1570.9 | 39.4 | 8.2 | 19.9 | 11.3 | 27.0 |
| 20534 | 42.0224 | 76.2284 | 448.1 | 1671.5 | 39.4 | 7.6 | 19.0 | 11.9 | 26.2 |
| 20538 | 42.7702 | 77.0083 | 222.5 | 877.8 | 31.1 | 9.8 | 24.3 | 6.4 | 31.5 |
| 20539 | 42.6998 | 77.0495 | 261.5 | 924.5 | 27.8 | 9.4 | 19.8 | 6.7 | 27.1 |
| 20544 | 42.7202 | 77.0009 | 246.9 | 943.1 | 30.0 | 9.6 | 21.7 | 6.9 | 28.9 |
| 20545 | 42.7848 | 77.0104 | 234.7 | 867.8 | 28.3 | 9.7 | 21.5 | 6.3 | 28.7 |
| 20546 | 42.7473 | 77.0148 | 241.1 | 915.6 | 31.1 | 9.6 | 23.5 | 6.7 | 30.7 |
| 20551 | 42.9328 | 78.1219 | 305.1 | 465.1 | 21.1 | 9.0 | 26.0 | 3.2 | 32.8 |
| 20571 | 42.7010 | 77.0620 | 327.7 | 1041.5 | 32.2 | 8.8 | 22.5 | 7.6 | 29.8 |
| 20572 | 42.8688 | 76.6872 | 143.3 | 608.4 | 27.2 | 10.6 | 27.3 | 4.3 | 34.4 |
| 20575 | 42.9118 | 77.7178 | 234.7 | 513.9 | 22.8 | 9.7 | 21.0 | 3.6 | 27.9 |
| 20578 | 42.9173 | 78.1199 | 314.2 | 494.7 | 21.1 | 8.9 | 24.6 | 3.4 | 31.5 |
| 20585 | 42.9446 | 78.1007 | 286.2 | 442.6 | 21.1 | 9.2 | 26.9 | 3.0 | 33.7 |
| 20594 | 42.9401 | 78.1204 | 304.8 | 453.5 | 21.1 | 9.0 | 26.7 | 3.1 | 33.5 |
| 20595 | 42.9255 | 78.1446 | 312.4 | 488.6 | 21.1 | 8.9 | 24.9 | 3.4 | 31.8 |
| 20596 | 42.9051 | 78.1278 | 321.6 | 520.6 | 22.8 | 8.8 | 26.8 | 3.6 | 33.7 |
| 20603 | 42.8543 | 76.6602 | 184.1 | 657.5 | 21.7 | 10.2 | 17.4 | 4.7 | 24.6 |
| 20610 | 42.8661 | 76.6704 | 179.8 | 636.4 | 21.7 | 10.2 | 15.2 | 4.5 | 22.3 |
| 20606 | 42.8788 | 76.6680 | 158.5 | 602.0 | 23.9 | 10.4 | 22.3 | 4.3 | 29.4 |
| 20613 | 42.9243 | 76.6354 | 190.5 | 656.5 | 23.9 | 10.1 | 21.0 | 4.7 | 28.1 |
| 20614 | 42.4122 | 76.6776 | 160.9 | 574.9 | 21.1 | 10.4 | 18.6 | 4.0 | 25.6 |
| 20620 | 42.9400 | 78.1283 | 315.8 | 463.6 | 21.1 | 8.9 | 26.3 | 3.2 | 33.1 |
| 20623 | 42.8968 | 76.6048 | 221.9 | 675.7 | 22.2 | 9.8 | 18.3 | 4.8 | 25.5 |
| 20624 | 42.9111 | 76.6338 | 198.1 | 632.2 | 24.4 | 10.1 | 22.8 | 4.5 | 29.9 |
| 20627 | 42.8564 | 74.8611 | 174.3 | 681.2 | 22.2 | 10.3 | 17.5 | 4.9 | 24.7 |
| 20628 | 42.8522 | 77.8624 | 176.2 | 678.2 | 22.2 | 10.3 | 17.6 | 4.8 | 24.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 20629 | 42.8521 | 76.8797 | 168.6 | 683.7 | 26.1 | 10.3 | 23.1 | 4.9 | 30.2 |
| 20632 | 42.8416 | 76.6593 | 198.1 | 626.7 | 21.1 | 10.1 | 17.6 | 4.4 | 24.7 |
| 20635 | 42.8560 | 76.6709 | 174.3 | 635.8 | 21.7 | 10.3 | 17.9 | 4.5 | 25.0 |
| 20636 | 42.9459 | 76.6531 | 170.7 | 557.8 | 20.0 | 10.3 | 17.3 | 3.9 | 24.3 |
| 20637 | 42.8693 | 76.6414 | 210.3 | 651.7 | 22.2 | 9.9 | 18.8 | 4.6 | 26.0 |
| 20638 | 42.9220 | 76.6158 | 194.5 | 629.1 | 21.1 | 10.1 | 17.5 | 4.5 | 24.6 |
| 20644 | 42.0252 | 76.2554 | 452.6 | 1594.7 | 41.7 | 7.6 | 21.4 | 11.4 | 28.5 |
| 20646 | 42.9200 | 76.6341 | 170.7 | 562.1 | 20.6 | 10.3 | 18.2 | 3.9 | 25.2 |
| 20645 | 42.0341 | 76.1972 | 426.7 | 1592.6 | 41.7 | 7.8 | 21.3 | 11.4 | 28.4 |
| 20646 | 42.9200 | 76.6341 | 170.7 | 616.3 | 21.7 | 10.3 | 18.4 | 4.4 | 25.5 |
| 20647 | 42.9099 | 76.6202 | 197.5 | 618.4 | 25.6 | 10.1 | 25.0 | 4.4 | 32.1 |
| 20649 | 42.9064 | 76.6259 | 195.4 | 640.7 | 27.2 | 10.1 | 26.7 | 4.6 | 33.9 |
| 20650 | 42.9056 | 76.6268 | 195.1 | 646.5 | 23.9 | 10.1 | 21.3 | 4.6 | 28.5 |
| 20651 | 42.9014 | 76.6128 | 218.2 | 712.9 | 25.6 | 9.9 | 19.0 | 5.1 | 26.2 |
| 20652 | 42.8986 | 76.5990 | 221.0 | 640.1 | 21.7 | 9.8 | 18.5 | 4.6 | 25.6 |
| 20653 | 42.8929 | 76.5986 | 224.0 | 684.6 | 26.1 | 9.8 | 23.8 | 4.9 | 31.0 |
| 20654 | 42.8832 | 76.6192 | 234.7 | 687.0 | 30.0 | 9.7 | 29.5 | 4.9 | 36.7 |
| 20655 | 42.8768 | 76.6293 | 234.7 | 647.7 | 22.2 | 9.7 | 19.3 | 4.6 | 26.5 |
| 20656 | 42.8709 | 76.6712 | 176.8 | 632.8 | 23.9 | 10.3 | 21.5 | 4.5 | 28.6 |
| 20657 | 42.8838 | 76.6337 | 218.5 | 715.4 | 29.4 | 9.9 | 24.4 | 5.1 | 31.6 |
| 20658 | 42.3067 | 77.6903 | 448.1 | 1038.8 | 32.2 | 7.6 | 19.5 | 7.6 | 26.8 |
| 20658 | 42.3067 | 77.6903 | 448.1 | 1069.5 | 32.8 | 7.6 | 19.4 | 7.8 | 26.7 |
| 20660 | 42.8737 | 76.6763 | 167.0 | 661.4 | 26.1 | 10.4 | 21.3 | 4.7 | 28.5 |
| 20661 | 42.0213 | 76.1970 | 393.2 | 1561.5 | 41.1 | 8.1 | 21.1 | 11.2 | 28.3 |
| 20662 | 42.1271 | 77.1637 | 442.0 | 1250.0 | 35.0 | 7.7 | 21.9 | 9.1 | 29.1 |
| 20663 | 42.8909 | 76.6205 | 224.0 | 687.0 | 28.9 | 9.8 | 27.8 | 4.9 | 34.9 |
| 20664 | 42.8913 | 76.6270 | 229.5 | 670.6 | 23.9 | 9.8 | 21.1 | 4.8 | 28.2 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 20665 | 42.8581 | 76.6653 | 177.7 | 638.9 | 21.7 | 10.3 | 17.9 | 4.5 | 25.0 |
| 20666 | 42.8540 | 76.6662 | 180.4 | 656.5 | 23.9 | 10.2 | 20.8 | 4.7 | 27.9 |
| 20668 | 42.9145 | 76.6402 | 180.4 | 606.2 | 20.6 | 10.2 | 17.0 | 4.3 | 24.1 |
| 20671 | 42.8928 | 76.6113 | 224.6 | 687.6 | 26.1 | 9.8 | 23.7 | 4.9 | 30.9 |
| 20672 | 42.8973 | 76.6223 | 222.2 | 669.3 | 25.0 | 9.8 | 22.7 | 4.8 | 29.8 |
| 20673 | 42.9215 | 76.6222 | 193.5 | 620.3 | 21.1 | 10.1 | 17.7 | 4.4 | 24.8 |
| 20674 | 42.8980 | 76.6164 | 221.9 | 684.3 | 26.1 | 9.8 | 23.8 | 4.9 | 31.0 |
| 20675 | 42.8925 | 76.6058 | 229.5 | 737.6 | 30.0 | 9.8 | 24.4 | 5.3 | 31.6 |
| 20677 | 42.8972 | 76.6106 | 220.4 | 720.2 | 30.0 | 9.8 | 25.0 | 5.2 | 32.2 |
| 20678 | 42.9196 | 76.6186 | 196.0 | 623.9 | 21.1 | 10.1 | 17.7 | 4.4 | 24.8 |
| 20679 | 42.9043 | 76.5860 | 214.3 | 723.0 | 28.9 | 9.9 | 26.3 | 5.2 | 33.5 |
| 20683 | 42.8551 | 76.8667 | 167.6 | 685.5 | 22.2 | 10.4 | 17.3 | 4.9 | 24.5 |
| 20684 | 42.8759 | 76.6705 | 161.5 | 615.7 | 22.8 | 10.4 | 20.1 | 4.4 | 27.2 |
| 20687 | 43.0521 | 78.2370 | 247.5 | 1227.1 | 35.0 | 9.6 | 20.7 | 8.9 | 28.0 |
| 20687 | 43.0521 | 78.2370 | 247.5 | 1408.2 | 38.9 | 9.6 | 20.8 | 10.2 | 28.1 |
| 20694 | 42.8263 | 76.7932 | 174.3 | 683.7 | 23.9 | 10.3 | 19.9 | 4.9 | 27.0 |
| 20695 | 42.8181 | 76.6887 | 180.4 | 756.8 | 30.0 | 10.2 | 26.1 | 5.5 | 33.3 |
| 20697 | 43.0600 | 78.3146 | 242.9 | 265.8 | 18.3 | 9.6 | 32.8 | 1.6 | 38.7 |
| 20700 | 42.8039 | 76.9152 | 167.6 | 727.9 | 26.1 | 10.4 | 21.6 | 5.2 | 28.8 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 20701 | 42.7742 | 76.9004 | 179.5 | 757.7 | 27.2 | 10.2 | 22.4 | 5.5 | 29.6 |
| 20702 | 42.8316 | 76.7739 | 158.5 | 664.2 | 26.7 | 10.4 | 24.4 | 4.7 | 31.6 |
| 20703 | 42.8115 | 76.6727 | 210.3 | 741.0 | 23.3 | 9.9 | 18.1 | 5.3 | 25.3 |
| 20704 | 42.8786 | 76.6640 | 161.5 | 655.6 | 26.7 | 10.4 | 22.4 | 4.7 | 29.5 |
| 20707 | 42.7723 | 76.9059 | 168.9 | 754.7 | 27.8 | 10.3 | 23.1 | 5.4 | 30.3 |
| 20707 | 42.7723 | 76.9059 | 168.9 | 754.7 | 23.9 | 10.3 | 17.9 | 5.4 | 25.2 |
| 20708 | 42.8288 | 76.7983 | 170.7 | 669.3 | 35.6 | 10.3 | 37.7 | 4.8 | 44.8 |
| 20709 | 42.9488 | 76.6295 | 165.2 | 610.2 | 23.3 | 10.4 | 18.6 | 4.3 | 25.7 |
| 21233 | 42.8680 | 76.8524 | 170.4 | 651.4 | 29.4 | 10.3 | 26.8 | 4.6 | 33.9 |
| 21236 | 42.8038 | 76.8698 | 194.5 | 752.2 | 33.3 | 10.1 | 28.4 | 5.4 | 35.6 |
| 21238 | 42.8813 | 76.6597 | 170.7 | 620.6 | 25.6 | 10.3 | 24.5 | 4.4 | 31.6 |
| 21238 | 42.8813 | 76.6597 | 170.7 | 576.1 | 25.6 | 10.3 | 26.4 | 4.1 | 33.5 |
| 21239 | 42.8890 | 76.6147 | 224.9 | 694.3 | 26.7 | 9.8 | 21.1 | 5.0 | 28.3 |
| 21240 | 42.8679 | 76.6357 | 215.8 | 687.6 | 30.0 | 9.9 | 29.3 | 4.9 | 36.4 |
| 21241 | 42.7962 | 76.9243 | 154.8 | 736.4 | 27.8 | 10.5 | 23.5 | 5.3 | 30.7 |
| 21243 | 42.8561 | 76.6240 | 241.7 | 741.6 | 28.3 | 9.6 | 25.2 | 5.3 | 32.4 |
| 21248 | 42.7766 | 76.9061 | 169.8 | 748.6 | 35.6 | 10.3 | 33.7 | 5.4 | 40.9 |
| 21249 | 42.8620 | 76.9055 | 156.1 | 656.5 | 27.8 | 10.5 | 26.4 | 4.7 | 33.5 |
| 21250 | 42.8226 | 76.9169 | 192.6 | 725.4 | 32.8 | 10.1 | 31.2 | 5.2 | 38.4 |
| 21251 | 42.7787 | 76.9008 | 178.0 | 539.8 | 22.2 | 10.3 | 18.9 | 3.8 | 25.9 |
| 21252 | 42.8846 | 76.6137 | 232.3 | 715.7 | 25.6 | 9.7 | 22.1 | 5.1 | 29.3 |
| 21253 | 42.8164 | 76.6775 | 196.6 | 731.5 | 27.8 | 10.1 | 24.2 | 5.3 | 31.4 |
| 21255 | 42.8731 | 76.6264 | 223.1 | 702.9 | 31.7 | 9.8 | 31.1 | 5.0 | 38.3 |
| 21256 | 42.9008 | 76.6467 | 172.2 | 611.4 | 25.6 | 10.3 | 24.9 | 4.3 | 32.0 |
| 21257 | 42.8895 | 76.6327 | 219.2 | 670.6 | 26.7 | 9.9 | 25.1 | 4.8 | 32.2 |
| 21258 | 42.8246 | 76.7986 | 176.8 | 706.8 | 35.6 | 10.3 | 35.8 | 5.1 | 43.0 |
| 21262 | 42.5540 | 76.2965 | 344.4 | 635.5 | 23.9 | 8.6 | 24.0 | 4.5 | 31.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21264 | 42.0238 | 76.2756 | 481.6 | 1639.2 | 41.7 | 7.3 | 21.0 | 11.7 | 28.1 |
| 21265 | 42.0319 | 76.2757 | 438.9 | 1615.4 | 43.3 | 7.7 | 22.1 | 11.6 | 29.2 |
| 21266 | 42.9055 | 76.6165 | 213.4 | 663.9 | 26.1 | 9.9 | 24.4 | 4.7 | 31.5 |
| 21267 | 42.9017 | 76.6205 | 213.4 | 678.5 | 26.7 | 9.9 | 24.7 | 4.9 | 31.8 |
| 21269 | 42.7678 | 76.9130 | 163.1 | 762.6 | 33.3 | 10.4 | 30.1 | 5.5 | 37.3 |
| 21271 | 42.8810 | 76.5940 | 242.0 | 762.6 | 28.3 | 9.6 | 24.5 | 5.5 | 31.7 |
| 21272 | 42.0105 | 76.2980 | 487.7 | 1662.7 | 43.3 | 7.2 | 21.7 | 11.9 | 28.9 |
| 21275 | 42.8880 | 76.6057 | 230.1 | 698.6 | 23.9 | 9.7 | 17.0 | 5.0 | 24.2 |
| 21276 | 42.8706 | 76.6314 | 219.5 | 688.8 | 23.9 | 9.8 | 17.3 | 4.9 | 24.4 |
| 21277 | 42.8881 | 76.6001 | 229.8 | 699.2 | 20.6 | 9.7 | 12.2 | 5.0 | 19.4 |
| 21280 | 42.8900 | 76.5936 | 227.1 | 706.2 | 25.0 | 9.8 | 21.6 | 5.1 | 28.7 |
| 21283 | 42.8651 | 76.6310 | 227.1 | 703.5 | 23.9 | 9.8 | 20.1 | 5.0 | 27.2 |
| 21285 | 42.9027 | 76.6312 | 195.1 | 676.7 | 21.7 | 10.1 | 17.1 | 4.8 | 24.3 |
| 21286 | 42.8665 | 76.9057 | 153.3 | 646.5 | 21.7 | 10.5 | 15.0 | 4.6 | 22.1 |
| 21287 | 42.8617 | 76.6270 | 228.6 | 710.8 | 23.3 | 9.8 | 19.1 | 5.1 | 26.3 |
| 21287 | 42.8617 | 76.6270 | 228.6 | 656.2 | 25.6 | 9.8 | 24.1 | 4.7 | 31.2 |
| 21288 | 42.8493 | 76.6093 | 255.4 | 773.3 | 23.9 | 9.5 | 18.6 | 5.6 | 25.8 |
| 21288 | 42.8493 | 76.6093 | 255.4 | 726.0 | 25.6 | 9.5 | 22.1 | 5.2 | 29.3 |
| 21291 | 42.8792 | 76.5842 | 234.7 | 729.4 | 23.3 | 9.7 | 15.5 | 5.2 | 22.7 |
| 21293 | 42.8416 | 76.8565 | 183.2 | 693.7 | 23.9 | 10.2 | 17.1 | 5.0 | 24.3 |
| 21294 | 42.0117 | 76.2738 | 431.3 | 1602.6 | 36.1 | 7.8 | 17.7 | 11.5 | 24.8 |
| 21296 | 42.9025 | 76.6371 | 195.1 | 629.7 | 22.2 | 10.1 | 19.3 | 4.5 | 26.4 |
| 21297 | 42.8617 | 76.9120 | 168.6 | 669.6 | 20.0 | 10.3 | 14.4 | 4.8 | 21.6 |
| 21298 | 42.8662 | 76.9116 | 171.6 | 666.0 | 19.4 | 10.3 | 13.7 | 4.8 | 20.8 |
| 21300 | 42.0491 | 76.1978 | 353.6 | 1434.7 | 33.9 | 8.5 | 17.7 | 10.4 | 24.9 |
| 21301 | 42.2156 | 77.0398 | 504.4 | 1129.0 | 31.1 | 7.1 | 16.9 | 8.2 | 24.2 |
| 21302 | 42.9140 | 76.7147 | 152.4 | 560.5 | 22.8 | 10.5 | 21.9 | 3.9 | 28.9 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21303 | 42.9008 | 76.7004 | 146.6 | 573.0 | 22.2 | 10.6 | 20.3 | 4.0 | 27.4 |
| 21305 | 42.8994 | 76.6278 | 210.3 | 657.1 | 21.7 | 9.9 | 17.8 | 4.7 | 25.0 |
| 21306 | 42.8779 | 76.6137 | 239.3 | 715.1 | 23.9 | 9.7 | 16.6 | 5.1 | 23.8 |
| 21312 | 43.0462 | 78.2362 | 253.6 | 289.3 | 18.3 | 9.5 | 30.5 | 1.8 | 36.6 |
| 21315 | 42.8622 | 76.8781 | 167.9 | 664.5 | 22.8 | 10.4 | 18.7 | 4.7 | 25.8 |
| 21320 | 42.8685 | 76.6262 | 225.2 | 705.3 | 22.8 | 9.8 | 18.4 | 5.1 | 25.6 |
| 21321 | 42.8599 | 76.8879 | 160.3 | 638.3 | 22.2 | 10.4 | 18.5 | 4.5 | 25.6 |
| 21322 | 42.9298 | 76.6296 | 178.3 | 594.4 | 21.1 | 10.3 | 18.3 | 4.2 | 25.3 |
| 21323 | 42.8448 | 76.8520 | 177.4 | 662.9 | 21.1 | 10.3 | 16.4 | 4.7 | 23.5 |
| 21324 | 42.8332 | 76.8605 | 193.5 | 690.4 | 26.1 | 10.1 | 23.2 | 4.9 | 30.3 |
| 21325 | 42.8642 | 76.6398 | 215.2 | 690.4 | 25.6 | 9.9 | 22.7 | 4.9 | 29.9 |
| 21326 | 42.8462 | 76.6143 | 260.9 | 778.8 | 23.9 | 9.4 | 18.5 | 5.6 | 25.8 |
| 21327 | 42.8444 | 76.6086 | 263.0 | 792.5 | 24.4 | 9.4 | 19.0 | 5.7 | 26.2 |
| 21319 | 42.8741 | 76.8952 | 149.0 | 624.2 | 24.4 | 10.5 | 22.3 | 4.4 | 29.4 |
| 21328 | 40.8553 | 76.6289 | 251.5 | 758.0 | 24.4 | 9.5 | 19.7 | 5.5 | 26.9 |
| 21335 | 43.0660 | 76.3528 | 158.5 | 1267.7 | 33.3 | 10.4 | 18.1 | 9.2 | 25.3 |
| 21336 | 43.1228 | 76.4005 | 198.4 | 1195.7 | 26.1 | 10.1 | 13.4 | 8.7 | 20.7 |
| 21342 | 42.2465 | 77.0484 | 509.0 | 1159.5 | 32.2 | 7.0 | 17.4 | 8.5 | 24.7 |
| 21343 | 42.2185 | 77.0216 | 524.3 | 1125.3 | 33.9 | 6.9 | 19.5 | 8.2 | 26.7 |
| 21343 | 42.2185 | 77.0216 | 524.3 | 1111.0 | 31.1 | 6.9 | 17.2 | 8.1 | 24.5 |
| 21344 | 42.9645 | 77.9822 | 274.3 | 434.6 | 20.6 | 9.3 | 19.7 | 2.9 | 26.4 |
| 21347 | 42.8512 | 76.6037 | 255.4 | 782.7 | 23.9 | 9.5 | 18.4 | 5.7 | 25.6 |
| 21351 | 42.4866 | 76.7151 | 324.6 | 700.1 | 23.3 | 8.8 | 16.2 | 5.0 | 23.4 |
| 21353 | 42.8192 | 76.6659 | 210.0 | 740.4 | 27.5 | 9.9 | 23.7 | 5.3 | 30.9 |
| 21354 | 42.8358 | 76.8025 | 168.6 | 649.5 | 19.7 | 10.3 | 14.4 | 4.6 | 21.6 |
| 21355 | 42.8232 | 76.7810 | 159.1 | 676.0 | 21.6 | 10.4 | 16.4 | 4.8 | 23.6 |
| 21356 | 43.0072 | 78.4214 | 252.7 | 310.6 | 18.9 | 9.5 | 30.2 | 1.9 | 36.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21357 | 42.8669 | 76.8760 | 158.5 | 630.3 | 26.7 | 10.4 | 25.7 | 4.5 | 32.8 |
| 21358 | 42.8788 | 76.8968 | 149.4 | 636.7 | 30.3 | 10.5 | 31.0 | 4.5 | 38.1 |
| 21359 | 42.8566 | 76.9121 | 153.3 | 656.8 | 25.6 | 10.5 | 22.9 | 4.7 | 30.1 |
| 21361 | 42.8228 | 76.6607 | 216.1 | 748.3 | 23.9 | 9.9 | 18.7 | 5.4 | 25.9 |
| 21362 | 42.8146 | 76.6636 | 223.4 | 767.5 | 23.9 | 9.8 | 18.3 | 5.5 | 25.6 |
| 21363 | 42.8268 | 76.8680 | 198.4 | 718.7 | 37.8 | 10.1 | 38.6 | 5.2 | 45.8 |
| 21365 | 42.8176 | 76.6518 | 243.8 | 780.6 | 23.3 | 9.6 | 17.5 | 5.6 | 24.7 |
| 21368 | 42.8265 | 76.6379 | 241.4 | 781.8 | 23.3 | 9.6 | 17.5 | 5.6 | 24.7 |
| 21369 | 42.8598 | 76.8995 | 153.0 | 649.5 | 19.1 | 10.5 | 13.3 | 4.6 | 20.4 |
| 21372 | 42.8777 | 76.8910 | 159.1 | 628.2 | 17.2 | 10.4 | 10.8 | 4.5 | 17.9 |
| 21375 | 42.0132 | 76.3139 | 361.2 | 1706.0 | 43.3 | 8.5 | 20.4 | 12.1 | 27.6 |
| 21379 | 42.8465 | 76.6212 | 253.0 | 769.0 | 22.8 | 9.5 | 17.2 | 5.6 | 24.5 |
| 21382 | 42.9107 | 76.8938 | 141.7 | 584.9 | 26.7 | 10.6 | 27.4 | 4.1 | 34.5 |
| 21384 | 42.8707 | 76.8711 | 160.9 | 630.3 | 25.6 | 10.4 | 21.5 | 4.5 | 28.6 |
| 21387 | 42.8808 | 76.9042 | 140.5 | 607.2 | 29.4 | 10.6 | 31.0 | 4.3 | 38.1 |
| 21389 | 0.0000 | 0.0000 | 0.0 | 427.9 | 20.6 | 12.0 | 20.0 | 2.9 | 26.7 |
| 21391 | 42.8937 | 76.9500 | 145.1 | 602.3 | 16.2 | 10.6 | 9.4 | 4.3 | 16.4 |
| 21393 | 42.8188 | 76.6827 | 184.1 | 716.0 | 22.2 | 10.2 | 16.8 | 5.1 | 24.0 |
| 21401 | 42.8161 | 76.6715 | 198.7 | 730.0 | 33.1 | 10.1 | 28.8 | 5.3 | 36.0 |
| 21402 | 42.4038 | 76.6749 | 188.7 | 711.1 | 26.7 | 10.2 | 23.2 | 5.1 | 30.4 |
| 21403 | 42.8230 | 76.6695 | 202.4 | 723.3 | 27.2 | 10.0 | 23.8 | 5.2 | 31.0 |
| 21404 | 42.8841 | 76.8992 | 141.7 | 611.1 | 23.9 | 10.6 | 21.7 | 4.3 | 28.8 |
| 21406 | 42.6943 | 77.8918 | 272.8 | 814.7 | 24.7 | 9.3 | 18.8 | 5.9 | 26.1 |
| 21407 | 42.8750 | 76.9077 | 149.4 | 624.5 | 28.6 | 10.5 | 28.9 | 4.4 | 36.0 |
| 21410 | 42.2349 | 77.5131 | 665.4 | 1355.1 | 41.7 | 5.5 | 26.7 | 9.8 | 34.0 |
| 21411 | 42.2376 | 77.5179 | 655.1 | 1382.3 | 18.9 | 5.6 | 9.6 | 10.0 | 16.9 |
| 21412 | 42.2379 | 77.5182 | 655.9 | 1321.3 | 34.4 | 5.6 | 21.9 | 9.6 | 29.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21413 | 42.2405 | 77.5232 | 641.5 | 1329.5 | 41.7 | 5.7 | 27.0 | 9.7 | 34.3 |
| 21414 | 42.2408 | 77.5230 | 641.6 | 1405.7 | 36.1 | 5.7 | 21.6 | 10.2 | 28.9 |
| 21420 | 42.0501 | 76.1786 | 315.5 | 1412.4 | 36.7 | 8.9 | 19.7 | 10.2 | 26.9 |
| 21421 | 42.0109 | 76.2856 | 437.4 | 1585.9 | 29.4 | 7.7 | 13.7 | 11.4 | 20.9 |
| 21424 | 42.0424 | 76.2091 | 413.0 | 1533.1 | 40.6 | 8.0 | 21.3 | 11.0 | 28.5 |
| 21425 | 42.2789 | 77.7336 | 638.6 | 1252.1 | 35.6 | 5.7 | 23.8 | 9.1 | 31.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 13987 | 42.9155 | 77.9579 | 291.1 | 524.3 | 20.0 | 9.1 | 20.7 | 3.6 | 27.6 |
| 13988 | 42.9297 | 77.9403 | 285.0 | 510.5 | 20.0 | 9.2 | 21.1 | 3.5 | 28.1 |
| 14172 | 42.7994 | 77.4625 | 449.9 | 444.7 | 16.9 | 7.6 | 21.0 | 3.0 | 27.8 |
| 14283 | 42.9277 | 77.9319 | 275.8 | 504.4 | 19.4 | 9.3 | 20.1 | 3.5 | 27.0 |
| 14296 | 42.8962 | 77.3530 | 254.8 | 625.8 | 26.7 | 9.5 | 27.4 | 4.4 | 34.5 |
| 14450 | 42.9324 | 77.9219 | 264.6 | 495.3 | 19.7 | 9.4 | 20.8 | 3.4 | 27.7 |
| 14482 | 42.7632 | 77.8000 | 280.7 | 749.8 | 25.6 | 9.2 | 21.7 | 5.4 | 29.0 |
| 14484 | 42.1195 | 77.7438 | 649.8 | 1496.0 | 43.9 | 5.6 | 25.6 | 10.8 | 32.8 |
| 14491 | 42.6188 | 77.7624 | 182.9 | 868.1 | 28.3 | 10.2 | 18.8 | 6.3 | 26.1 |
| 14517 | 42.8800 | 77.9657 | 0.0 | 601.7 | 16.1 | 12.0 | 6.8 | 4.3 | 13.9 |
| 14526 | 42.9350 | 77.9857 | 287.4 | 503.8 | 17.8 | 9.2 | 17.1 | 3.5 | 24.0 |
| 15162 | 42.9169 | 78.3538 | 281.9 | 442.3 | 20.8 | 9.2 | 26.2 | 3.0 | 33.0 |
| 15164 | 42.9244 | 78.3519 | 280.4 | 411.8 | 16.9 | 9.3 | 12.0 | 2.7 | 18.7 |
| 15190 | 42.5628 | 77.9228 | 329.2 | 1033.6 | 36.7 | 8.8 | 27.0 | 7.5 | 34.3 |
| 15191 | 42.5557 | 77.9580 | 416.7 | 1134.8 | 31.1 | 7.9 | 20.4 | 8.3 | 27.7 |
| 15204 | 42.9651 | 78.3151 | 274.3 | 377.0 | 16.0 | 9.3 | 10.6 | 2.5 | 17.2 |
| 15267 | 42.6072 | 77.7244 | 182.9 | 378.0 | 19.5 | 10.2 | 19.8 | 2.5 | 26.4 |
| 15268 | 42.1638 | 77.3543 | 442.3 | 1175.9 | 36.7 | 7.7 | 24.7 | 8.6 | 32.0 |
| 15268 | 42.1638 | 77.3540 | 442.3 | 1182.0 | 36.6 | 7.7 | 24.4 | 8.6 | 31.7 |
| 15283 | 42.8107 | 77.1804 | 326.4 | 541.6 | 24.4 | 8.8 | 28.9 | 3.8 | 35.9 |
| 15283 | 42.8107 | 77.1804 | 326.4 | 784.9 | 32.2 | 8.8 | 29.8 | 5.7 | 37.1 |
| 15302 | 43.0920 | 76.5478 | 192.0 | 385.0 | 17.2 | 10.1 | 18.5 | 2.5 | 25.0 |
| 15328 | 42.9180 | 78.3415 | 310.9 | 467.0 | 24.4 | 9.0 | 33.2 | 3.2 | 40.0 |
| 15370 | 42.5902 | 77.6771 | 481.6 | 1246.0 | 37.8 | 7.3 | 24.5 | 9.1 | 31.8 |
| 15372 | 42.5453 | 77.7907 | 557.8 | 1322.2 | 38.9 | 6.5 | 20.3 | 9.6 | 27.6 |
| 15382 | 42.1856 | 77.0826 | 458.1 | 408.4 | 19.7 | 7.5 | 29.9 | 2.7 | 36.6 |
| 15405 | 42.7991 | 77.2008 | 331.3 | 578.2 | 27.8 | 8.8 | 32.9 | 4.1 | 39.9 |
| 15405 | 42.7991 | 77.2008 | 331.3 | 795.2 | 32.8 | 8.8 | 30.2 | 5.8 | 37.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 15406 | 42.7338 | 77.0746 | 323.1 | 864.4 | 33.9 | 8.8 | 29.0 | 6.3 | 36.2 |
| 15406 | 42.7338 | 77.0746 | 323.1 | 876.3 | 34.4 | 8.8 | 29.2 | 6.4 | 36.5 |
| 15438 | 42.5394 | 77.2162 | 498.0 | 2422.6 | 62.8 | 7.1 | 23.0 | 16.0 | 29.6 |
| 15441 | 42.9152 | 77.3706 | 245.4 | 625.4 | 27.2 | 9.6 | 28.2 | 4.4 | 35.3 |
| 15445 | 42.5833 | 77.1848 | 402.9 | 1191.2 | 37.2 | 8.1 | 24.5 | 8.7 | 31.8 |
| 15469 | 42.6528 | 77.1152 | 412.4 | 1098.8 | 33.9 | 8.0 | 23.6 | 8.0 | 30.9 |
| 15480 | 42.5704 | 77.7509 | 275.2 | 492.3 | 27.8 | 9.3 | 37.5 | 3.4 | 44.4 |
| 15480 | 42.5704 | 77.7509 | 275.2 | 495.3 | 26.7 | 9.3 | 35.1 | 3.4 | 41.9 |
| 15480 | 42.5704 | 77.7509 | 275.2 | 494.4 | 22.2 | 9.3 | 26.1 | 3.4 | 33.0 |
| 15492 | 42.2001 | 77.3707 | 329.8 | 886.7 | 31.4 | 8.8 | 25.5 | 6.4 | 32.8 |
| 15500 | 42.9247 | 76.6946 | 153.2 | 624.8 | 22.8 | 10.5 | 19.7 | 4.4 | 26.7 |
| 15501 | 42.9215 | 76.7025 | 152.4 | 602.0 | 22.8 | 10.5 | 17.9 | 4.3 | 25.0 |
| 15502 | 42.9204 | 76.6907 | 160.0 | 611.9 | 23.3 | 10.4 | 21.1 | 4.3 | 28.2 |
| 15513 | 42.9152 | 77.1853 | 234.7 | 568.1 | 22.8 | 9.7 | 23.0 | 4.0 | 30.0 |
| 15529 | 42.7415 | 76.6973 | 138.7 | 800.4 | 34.4 | 10.6 | 29.7 | 5.8 | 37.0 |
| 15583 | 42.8653 | 76.6875 | 145.4 | 734.6 | 26.8 | 10.6 | 22.1 | 5.3 | 29.3 |
| 15584 | 43.1549 | 76.4714 | 118.6 | 1076.6 | 31.9 | 10.8 | 19.6 | 7.9 | 26.9 |
| 15611 | 42.9175 | 76.6872 | 157.0 | 552.3 | 22.8 | 10.5 | 19.5 | 3.9 | 26.5 |
| 15612 | 43.3514 | 76.0893 | 149.0 | 611.7 | 23.3 | 10.5 | 18.5 | 4.3 | 25.6 |
| 15613 | 43.3514 | 76.0893 | 158.2 | 680.3 | 26.1 | 10.4 | 20.7 | 4.9 | 27.9 |
| 15628 | 43.3218 | 75.9357 | 207.3 | 524.6 | 31.1 | 10.0 | 36.4 | 3.6 | 43.4 |
| 15650 | 42.9108 | 76.6816 | 147.5 | 555.3 | 25.6 | 10.6 | 24.4 | 3.9 | 31.4 |
| 15651 | 42.9067 | 76.6840 | 138.7 | 493.8 | 25.9 | 10.6 | 28.2 | 3.4 | 35.1 |
| 15661 | 42.9197 | 76.6959 | 159.6 | 611.4 | 22.8 | 10.4 | 20.2 | 4.3 | 27.3 |
| 15662 | 42.9200 | 76.7007 | 163.1 | 612.6 | 22.8 | 10.4 | 17.6 | 4.3 | 24.7 |
| 15662 | 42.9200 | 76.7007 | 163.1 | 534.9 | 25.8 | 10.4 | 25.9 | 3.7 | 32.8 |
| 15663 | 42.9160 | 76.7005 | 158.5 | 507.8 | 24.8 | 10.4 | 25.3 | 3.5 | 32.2 |
| 15664 | 42.9273 | 76.6724 | 153.5 | 555.3 | 23.3 | 10.5 | 23.1 | 3.9 | 30.1 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 15665 | 42.9248 | 76.6761 | 156.7 | 373.7 | 22.8 | 10.5 | 33.0 | 2.4 | 39.5 |
| 15665 | 42.9248 | 76.6761 | 156.7 | 556.6 | 22.8 | 10.5 | 22.1 | 3.9 | 29.1 |
| 15665 | 42.9248 | 76.6761 | 156.7 | 521.5 | 23.7 | 10.5 | 25.4 | 3.6 | 32.4 |
| 15702 | 42.9211 | 76.6779 | 160.0 | 610.5 | 22.8 | 10.4 | 20.2 | 4.3 | 27.3 |
| 15703 | 42.9157 | 76.7055 | 156.4 | 611.4 | 23.3 | 10.5 | 21.0 | 4.3 | 28.1 |
| 15706 | 42.9053 | 76.7016 | 152.4 | 526.1 | 24.8 | 10.5 | 27.2 | 3.7 | 34.2 |
| 15706 | 42.9053 | 76.7016 | 152.4 | 547.7 | 22.2 | 10.5 | 21.4 | 3.8 | 28.4 |
| 15707 | 42.9155 | 76.6831 | 153.6 | 616.9 | 22.8 | 10.5 | 19.9 | 4.4 | 27.0 |
| 15709 | 42.9064 | 76.6887 | 145.1 | 610.8 | 22.8 | 10.6 | 17.6 | 4.3 | 24.7 |
| 15710 | 42.9023 | 76.6949 | 141.1 | 612.6 | 22.8 | 10.6 | 19.8 | 4.3 | 26.9 |
| 15737 | 42.7159 | 78.9524 | 307.8 | 790.3 | 27.2 | 9.0 | 23.1 | 5.7 | 30.3 |
| 15745 | 42.9282 | 76.6764 | 158.8 | 610.2 | 23.3 | 10.4 | 18.6 | 4.3 | 25.7 |
| 15747 | 42.9285 | 76.6687 | 154.2 | 618.7 | 23.3 | 10.5 | 18.3 | 4.4 | 25.4 |
| 15756 | 42.8976 | 76.7242 | 140.8 | 608.7 | 22.8 | 10.6 | 17.7 | 4.3 | 24.8 |
| 15764 | 42.7292 | 77.0867 | 332.8 | 347.8 | 18.6 | 8.7 | 28.4 | 2.2 | 34.8 |
| 15834 | 42.2032 | 77.5925 | 617.2 | 1696.8 | 37.8 | 6.0 | 18.8 | 12.1 | 25.9 |
| 15834 | 42.2032 | 77.5925 | 617.2 | 375.2 | 29.4 | 6.0 | 62.6 | 2.5 | 69.2 |
| 15849 | 42.5631 | 77.7983 | 475.5 | 1199.4 | 34.4 | 7.3 | 22.6 | 8.7 | 29.9 |
| 15850 | 42.9152 | 76.6707 | 150.6 | 609.6 | 22.8 | 10.5 | 20.1 | 4.3 | 27.2 |
| 15881 | 42.9647 | 78.3316 | 300.8 | 382.2 | 20.5 | 9.1 | 30.0 | 2.5 | 36.5 |
| 15882 | 42.9277 | 78.3264 | 295.7 | 439.2 | 18.0 | 9.1 | 20.3 | 3.0 | 27.0 |
| 15883 | 42.9132 | 78.3411 | 304.8 | 465.4 | 16.1 | 9.0 | 15.3 | 3.2 | 22.1 |
| 15896 | 42.9039 | 78.4266 | 286.5 | 450.8 | 16.1 | 9.2 | 9.1 | 3.1 | 15.9 |
| 15897 | 42.9162 | 78.3649 | 291.1 | 437.4 | 19.3 | 9.1 | 23.3 | 3.0 | 30.0 |
| 15898 | 42.9385 | 78.3736 | 278.9 | 394.7 | 17.2 | 9.3 | 20.2 | 2.6 | 26.8 |
| 15899 | 42.9226 | 78.3637 | 291.1 | 430.1 | 21.1 | 9.1 | 27.8 | 2.9 | 34.5 |
| 15920 | 42.0336 | 78.2830 | 274.3 | 312.7 | 15.6 | 9.3 | 20.0 | 2.0 | 26.2 |
| 15921 | 42.9878 | 78.3002 | 268.2 | 363.6 | 19.2 | 9.4 | 27.1 | 2.4 | 33.6 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 15963 | 42.8133 | 76.7083 | 119.5 | 624.8 | 34.6 | 10.8 | 38.1 | 4.4 | 45.2 |
| 15962 | 42.8605 | 76.6676 | 174.3 | 609.0 | 32.5 | 10.3 | 36.5 | 4.3 | 43.5 |
| 16018 | 42.9236 | 75.4223 | 409.7 | 545.6 | 21.1 | 8.0 | 24.1 | 3.8 | 31.0 |
| 16021 | 42.2700 | 77.0777 | 548.0 | 1074.1 | 33.9 | 6.6 | 25.4 | 7.8 | 32.7 |
| 16085 | 42.9883 | 78.4132 | 268.2 | 361.2 | 16.7 | 9.4 | 20.2 | 2.3 | 26.7 |
| 16102 | 41.8377 | 77.3864 | 333.5 | 906.8 | 34.4 | 8.7 | 28.4 | 6.6 | 35.6 |
| 16103 | 42.3269 | 77.3056 | 330.7 | 886.1 | 26.7 | 8.8 | 20.2 | 6.4 | 27.5 |
| 16104 | 42.9556 | 77.7809 | 193.5 | 406.9 | 22.2 | 10.1 | 29.8 | 2.7 | 36.4 |
| 16105 | 42.9554 | 77.7898 | 212.4 | 404.5 | 18.9 | 9.9 | 22.2 | 2.7 | 28.8 |
| 16106 | 42.9598 | 77.7858 | 194.5 | 398.4 | 30.6 | 10.1 | 51.4 | 2.6 | 58.0 |
| 16107 | 42.9309 | 77.7740 | 164.6 | 400.8 | 20.0 | 10.4 | 24.0 | 2.7 | 30.6 |
| 16109 | 42.9349 | 77.7873 | 187.5 | 411.8 | 21.7 | 10.2 | 27.9 | 2.7 | 34.6 |
| 16114 | 42.9450 | 77.7966 | 179.8 | 401.4 | 33.3 | 10.2 | 57.5 | 2.7 | 64.2 |
| 16115 | 42.6480 | 76.6315 | 259.7 | 1160.7 | 31.1 | 9.5 | 18.7 | 8.5 | 26.0 |
| 16118 | 42.7512 | 76.6287 | 311.8 | 1275.0 | 37.2 | 8.9 | 22.2 | 9.3 | 29.5 |
| 16119 | 42.6607 | 76.4547 | 397.5 | 1334.7 | 33.9 | 8.1 | 19.3 | 9.7 | 26.6 |
| 16120 | 42.7196 | 76.5688 | 361.2 | 694.9 | 22.2 | 8.5 | 19.8 | 5.0 | 27.0 |
| 16120 | 42.7196 | 76.5688 | 361.2 | 2244.9 | 51.7 | 8.5 | 19.2 | 15.1 | 26.0 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 19642 | 42.9452 | 76.6997 | 153.0 | 548.9 | 23.3 | 10.5 | 23.4 | 3.8 | 30.4 |
| 19643 | 42.9494 | 76.6975 | 158.5 | 548.6 | 23.3 | 10.4 | 23.5 | 3.8 | 30.5 |
| 19644 | 42.9452 | 76.6762 | 152.4 | 548.6 | 22.8 | 10.5 | 22.4 | 3.8 | 29.4 |
| 19645 | 42.9417 | 76.6735 | 152.4 | 548.6 | 23.3 | 10.5 | 23.4 | 3.8 | 30.4 |
| 19646 | 42.9383 | 76.6706 | 153.9 | 548.6 | 25.6 | 10.5 | 27.5 | 3.8 | 34.4 |
| 19647 | 42.9189 | 76.6721 | 156.7 | 556.0 | 25.0 | 10.5 | 26.1 | 3.9 | 33.1 |
| 19649 | 42.9228 | 78.2851 | 306.3 | 466.0 | 22.2 | 9.0 | 28.4 | 3.2 | 35.2 |
| 19652 | 42.9386 | 76.7274 | 128.0 | 527.9 | 22.8 | 10.7 | 22.8 | 3.7 | 29.7 |
| 19653 | 42.9353 | 76.7236 | 138.7 | 536.8 | 23.3 | 10.6 | 23.6 | 3.7 | 30.6 |
| 19656 | 42.8998 | 78.3418 | 307.8 | 496.2 | 21.1 | 9.0 | 24.4 | 3.4 | 31.3 |
| 19664 | 42.9433 | 76.7255 | 134.1 | 555.3 | 25.6 | 10.7 | 26.8 | 3.9 | 33.8 |
| 19665 | 42.9189 | 76.7148 | 155.4 | 556.0 | 22.8 | 10.5 | 22.1 | 3.9 | 29.1 |
| 19666 | 43.9390 | 76.7218 | 141.7 | 537.7 | 21.1 | 10.6 | 19.5 | 3.7 | 26.5 |
| 19672 | 42.8001 | 76.8327 | 207.3 | 765.0 | 28.3 | 10.0 | 24.0 | 5.5 | 31.2 |
| 19673 | 42.7938 | 76.8172 | 203.3 | 783.9 | 28.3 | 10.0 | 23.4 | 5.7 | 30.6 |
| 19675 | 42.8624 | 76.9330 | 152.4 | 660.5 | 21.7 | 10.5 | 16.9 | 4.7 | 24.0 |
| 19678 | 42.9512 | 78.3858 | 267.6 | 374.0 | 18.3 | 9.4 | 23.9 | 2.4 | 30.5 |
| 19679 | 42.7855 | 77.9480 | 326.1 | 769.0 | 27.2 | 8.8 | 24.0 | 5.6 | 31.2 |
| 19680 | 42.8750 | 78.3292 | 370.0 | 573.0 | 23.3 | 8.4 | 26.1 | 4.0 | 33.1 |
| 19686 | 42.5883 | 76.8444 | 310.3 | 807.7 | 28.9 | 9.0 | 24.7 | 5.8 | 31.9 |
| 19686 | 42.5883 | 76.8444 | 310.3 | 1246.6 | 43.3 | 9.0 | 27.6 | 9.1 | 34.9 |
| 19691 | 42.3031 | 77.1461 | 550.2 | 1007.4 | 28.3 | 6.6 | 21.6 | 7.3 | 28.9 |
| 19692 | 42.4326 | 76.9708 | 467.3 | 2551.2 | 59.4 | 7.4 | 20.4 | 16.5 | 26.9 |
| 19692 | 42.4326 | 76.9708 | 467.3 | 2550.0 | 59.4 | 7.4 | 20.4 | 16.5 | 26.9 |
| 19692 | 42.4326 | 76.9708 | 467.3 | 2548.4 | 59.4 | 7.4 | 20.4 | 16.5 | 26.9 |
| 20410 | 42.9051 | 78.2857 | 342.0 | 520.0 | 21.1 | 8.6 | 24.0 | 3.6 | 30.9 |
| 20411 | 42.6909 | 75.7294 | 553.2 | 1596.8 | 40.6 | 6.6 | 21.3 | 11.4 | 28.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 20412 | 42.8186 | 76.8942 | 165.2 | 748.0 | 30.0 | 10.4 | 26.2 | 5.4 | 33.4 |
| 20422 | 42.8625 | 76.6842 | 146.3 | 610.2 | 26.7 | 10.6 | 26.4 | 4.3 | 33.5 |
| 20425 | 42.1236 | 76.1954 | 408.4 | 1604.5 | 34.4 | 8.0 | 16.5 | 11.5 | 23.6 |
| 20427 | 42.0362 | 76.2171 | 385.6 | 1687.1 | 36.7 | 8.2 | 16.9 | 12.0 | 24.0 |
| 20434 | 42.9766 | 77.9554 | 254.5 | 188.4 | 20.0 | 9.5 | 55.7 | 0.9 | 60.7 |
| 20435 | 42.9717 | 77.9630 | 262.1 | 427.9 | 20.0 | 9.4 | 24.7 | 2.9 | 31.4 |
| 20437 | 42.9096 | 76.6761 | 144.8 | 611.4 | 27.6 | 10.6 | 27.9 | 4.3 | 34.9 |
| 20440 | 42.8378 | 75.6333 | 413.9 | 882.7 | 28.9 | 7.9 | 23.7 | 6.4 | 31.0 |
| 20446 | 42.7087 | 76.8086 | 228.6 | 1937.9 | 47.8 | 9.8 | 19.6 | 13.5 | 26.6 |
| 20451 | 42.9030 | 76.6832 | 143.3 | 556.3 | 23.3 | 10.6 | 22.9 | 3.9 | 29.9 |
| 20452 | 42.8992 | 76.6830 | 152.4 | 565.4 | 23.3 | 10.5 | 22.7 | 4.0 | 29.7 |
| 20453 | 42.9032 | 76.6740 | 153.0 | 553.2 | 22.8 | 10.5 | 22.2 | 3.9 | 29.2 |
| 20454 | 42.8984 | 76.6782 | 159.4 | 560.2 | 22.8 | 10.4 | 22.0 | 3.9 | 29.0 |
| 20455 | 42.8997 | 76.6737 | 157.6 | 564.8 | 22.8 | 10.5 | 21.8 | 4.0 | 28.8 |
| 20486 | 42.9767 | 77.9625 | 266.4 | 420.0 | 21.1 | 9.4 | 27.9 | 2.8 | 34.6 |
| 20487 | 42.9730 | 77.9741 | 271.3 | 426.4 | 21.1 | 9.3 | 27.6 | 2.9 | 34.3 |
| 20490 | 42.9222 | 78.1198 | 304.5 | 481.6 | 22.8 | 9.0 | 28.6 | 3.3 | 35.4 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21450 | 42.2365 | 77.5110 | 664.5 | 1449.9 | 39.4 | 5.5 | 23.4 | 10.5 | 30.6 |
| 21451 | 42.0497 | 76.1596 | 347.5 | 1470.1 | 37.8 | 8.6 | 19.9 | 10.6 | 27.1 |
| 21456 | 42.2158 | 77.6779 | 699.5 | 1450.2 | 38.9 | 5.1 | 23.3 | 10.5 | 30.5 |
| 21457 | 42.0828 | 76.1043 | 353.6 | 1466.1 | 39.4 | 8.5 | 21.1 | 10.6 | 28.3 |
| 21458 | 42.2824 | 77.7250 | 590.4 | 1204.3 | 35.0 | 6.2 | 23.9 | 8.8 | 31.2 |
| 21459 | 42.3626 | 77.5598 | 559.3 | 1135.4 | 25.0 | 6.5 | 16.3 | 8.3 | 23.6 |
| 21463 | 42.1869 | 75.7878 | 470.9 | 1645.3 | 47.8 | 7.4 | 24.6 | 11.7 | 31.7 |
| 21464 | 42.2834 | 77.7249 | 586.7 | 1204.6 | 35.0 | 6.2 | 23.9 | 8.8 | 31.2 |
| 21465 | 42.8881 | 77.4538 | 332.2 | 680.9 | 32.2 | 8.7 | 34.5 | 4.9 | 41.6 |
| 21467 | 42.4162 | 76.8996 | 247.8 | 805.3 | 28.3 | 9.6 | 23.3 | 5.8 | 30.5 |
| 21468 | 42.4197 | 77.4536 | 512.1 | 1472.2 | 37.8 | 7.0 | 20.9 | 10.6 | 28.1 |
| 21468 | 42.4197 | 77.4536 | 512.1 | 2507.6 | 58.9 | 7.0 | 20.7 | 16.3 | 27.2 |
| 21468 | 42.4197 | 77.4536 | 512.1 | 3013.6 | 67.2 | 7.0 | 20.0 | 18.0 | 26.0 |
| 21470 | 42.2388 | 77.5203 | 659.0 | 1367.0 | 36.7 | 5.5 | 22.8 | 9.9 | 30.0 |
| 21495 | 42.2700 | 76.7140 | 540.4 | 288.0 | 17.8 | 6.7 | 38.4 | 1.8 | 44.5 |
| 21495 | 42.2700 | 76.7140 | 540.4 | 1473.4 | 39.4 | 6.7 | 22.2 | 10.6 | 29.4 |
| 21495 | 42.2700 | 76.7140 | 540.4 | 2920.0 | 64.4 | 6.7 | 19.8 | 17.8 | 25.9 |
| 21495 | 42.2700 | 76.7140 | 540.4 | 3603.0 | 93.3 | 6.7 | 24.0 | 18.9 | 29.3 |
| 21495 | 42.2700 | 76.7140 | 540.4 | 3603.0 | 86.1 | 6.7 | 22.0 | 18.9 | 27.3 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 281.0 | 18.3 | 6.7 | 41.2 | 1.7 | 47.3 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 1057.7 | 33.9 | 6.7 | 25.7 | 7.7 | 33.0 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 1633.7 | 42.2 | 6.7 | 21.7 | 11.7 | 28.9 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 2523.1 | 56.1 | 6.7 | 19.6 | 16.4 | 26.1 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 3066.0 | 67.8 | 6.7 | 19.9 | 18.2 | 25.8 |
| 21496 | 42.4053 | 77.4636 | 536.4 | 3041.3 | 67.8 | 6.7 | 20.1 | 18.1 | 26.0 |
| 21497 | 42.0179 | 76.2749 | 442.0 | 1627.0 | 36.7 | 7.7 | 17.8 | 11.6 | 25.0 |
| 21499 | 42.1408 | 75.8420 | 417.6 | 1594.1 | 42.2 | 7.9 | 21.5 | 11.4 | 28.7 |

Table A-6 (Cont.)

| API CODE | LATITUDE | LONGITUDE | ELEV. (M) | DEPTH (M) | BHT (C) | SURF. TEMP. (C) | AVERAGE GRADIENT (C/KM) | BHT CORRECT. (C) | CORRECTED GRADIENT (C/KM) |
|----------|----------|-----------|--------------|--------------|------------|-----------------------|-------------------------------|------------------------|---------------------------------|
| 21500 | 42.6389 | 75.9136 | 516.6 | 1146.4 | 32.8 | 6.9 | 22.5 | 8.4 | 29.8 |
| 21500 | 42.6389 | 75.9136 | 516.6 | 2098.9 | 46.1 | 6.9 | 18.7 | 14.4 | 25.5 |
| 21504 | 42.1355 | 77.4513 | 539.5 | 1314.6 | 38.9 | 6.7 | 24.5 | 9.6 | 31.7 |
| 21505 | 42.1565 | 77.4464 | 457.2 | 1181.1 | 36.7 | 7.5 | 24.7 | 8.6 | 32.0 |
| 21507 | 43.0076 | 78.4303 | 249.9 | 321.0 | 16.1 | 9.6 | 20.4 | 2.0 | 26.7 |
| 21550 | 43.0502 | 78.2295 | 250.5 | 297.6 | 17.8 | 9.5 | 27.7 | 1.8 | 33.8 |
| 21564 | 42.7580 | 77.8505 | 170.7 | 206.7 | 23.3 | 10.3 | 62.9 | 1.1 | 68.2 |
| 21567 | 42.9959 | 78.4422 | 254.5 | 335.6 | 17.2 | 9.5 | 23.0 | 2.1 | 29.4 |
| 60709 | 42.0506 | 77.4482 | 550.5 | 1268.0 | 43.3 | 6.6 | 29.0 | 9.2 | 36.2 |
| 60710 | 42.0578 | 77.4282 | 480.7 | 1212.8 | 45.6 | 7.3 | 31.6 | 8.8 | 38.8 |
| 61206 | 42.4104 | 76.8949 | 224.9 | 781.5 | 28.9 | 9.8 | 24.4 | 5.6 | 31.7 |
| 90001 | 42.9449 | 76.5447 | 215.8 | 1555.4 | 50.0 | 9.9 | 25.8 | 11.2 | 33.0 |

Table A-7.
NOAA Data.

| STATION ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | SURFACE T (DEG C) | S.L. DATUM T (DEG C) |
|----------------|----------|-----------|-----------------------|----------------------|-------------------------|
| 30 23 | 42.1000 | 77.2333 | 304.8 | 8.5 | 11.5 |
| 30 85 | 42.2500 | 77.8000 | 530.4 | 7.3 | 12.5 |
| 30 93 | 42.1000 | 78.7500 | 457.2 | 7.8 | 12.3 |
| 30 183 | 42.3000 | 78.0167 | 432.8 | 7.6 | 11.9 |
| 30 321 | 42.9000 | 76.5333 | 217.9 | 8.8 | 10.9 |
| 30 360 | 42.3000 | 75.4833 | 309.4 | 8.4 | 11.4 |
| 30 443 | 43.0000 | 78.1833 | 274.3 | 8.4 | 11.1 |
| 30 687 | 42.2167 | 75.9833 | 484.6 | 7.8 | 12.5 |
| 30 1012 | 42.9333 | 78.7333 | 214.9 | 8.4 | 10.5 |
| 30 1752 | 42.7000 | 74.9167 | 378.0 | 7.6 | 11.3 |
| 30 1799 | 42.6000 | 76.1833 | 344.1 | 7.7 | 11.0 |
| 30 1947 | 42.5667 | 77.7000 | 208.8 | 9.4 | 11.5 |
| 30 2036 | 42.2500 | 74.9333 | 411.5 | 7.7 | 11.7 |
| 30 2610 | 42.1000 | 76.8167 | 268.2 | 8.9 | 11.6 |
| 30 3033 | 42.4167 | 79.3000 | 231.6 | 9.7 | 12.0 |
| 30 3184 | 42.8833 | 77.0333 | 218.8 | 9.0 | 11.1 |
| 30 3773 | 42.7833 | 77.6167 | 274.9 | 8.6 | 11.2 |
| 30 4174 | 42.4500 | 76.4500 | 292.6 | 8.1 | 11.0 |
| 30 4208 | 42.1167 | 79.2333 | 423.7 | 8.8 | 12.9 |
| 30 4715 | 43.1833 | 79.0500 | 100.6 | 9.7 | 10.7 |
| 30 4791 | 43.0667 | 74.8667 | 274.3 | 7.4 | 10.1 |
| 30 4808 | 42.2500 | 78.8000 | 480.1 | 7.1 | 11.8 |
| 30 4844 | 43.1833 | 78.6500 | 158.5 | 8.8 | 10.3 |
| 30 5512 | 42.9000 | 75.6500 | 396.2 | 6.4 | 10.3 |
| 30 6085 | 42.5333 | 75.5000 | 341.4 | 7.0 | 10.3 |
| 30 6314 | 43.4667 | 76.5000 | 106.7 | 8.6 | 9.7 |
| 30 6510 | 42.6500 | 77.0833 | 219.5 | 9.6 | 11.8 |
| 30 7167 | 43.1167 | 77.6667 | 166.7 | 8.8 | 10.5 |
| 30 7317 | 42.2833 | 74.5667 | 454.2 | 7.3 | 11.8 |
| 30 7413 | 43.1667 | 74.8667 | 420.6 | 5.8 | 9.9 |
| 30 7842 | 43.2000 | 77.0167 | 128.0 | 9.3 | 10.5 |
| 30 8058 | 42.7167 | 78.6000 | 332.2 | 7.9 | 11.1 |
| 30 8383 | 43.1167 | 76.1167 | 125.0 | 8.9 | 10.2 |
| 36 865 | 41.8000 | 78.6333 | 645.6 | 6.6 | 12.9 |
| 36 868 | 41.9500 | 78.7333 | 512.1 | 7.4 | 12.4 |
| 36 1790 | 41.9167 | 79.6333 | 438.9 | 8.4 | 12.7 |
| 36 4432 | 41.6833 | 78.8000 | 533.4 | 6.6 | 11.8 |
| 36 4873 | 42.0000 | 77.1333 | 304.8 | 8.7 | 11.7 |
| 36 5915 | 41.8333 | 75.8667 | 475.5 | 7.1 | 11.8 |
| 36 8905 | 41.7500 | 76.4167 | 227.1 | 9.3 | 11.6 |
| 36 9298 | 41.8500 | 79.1333 | 390.1 | 9.1 | 12.9 |

Table A-8a.
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 1105510 | 42.0800 | 78.0532 | 602.6 | 1402.1 | -800.4 |
| 1104463 | 42.2584 | 77.7556 | 535.5 | 1158.5 | -624.2 |
| 1203995 | 42.2911 | 78.1623 | 486.5 | 1024.7 | -539.2 |
| 1204925 | 42.2979 | 77.9575 | 492.6 | 1040.6 | -548.9 |
| 1403990 | 42.4006 | 78.0769 | 551.7 | 922.0 | -371.2 |
| 1504248 | 42.4705 | 78.1603 | 479.1 | 765.7 | -290.2 |
| 1504025 | 42.3463 | 78.2162 | 512.7 | 977.8 | -466.0 |
| 1604052 | 42.2662 | 78.1954 | 568.8 | 1121.7 | -553.8 |
| 1604168 | 42.2774 | 78.2876 | 613.3 | 1134.8 | -522.4 |
| 1704153 | 42.2763 | 78.9206 | 558.7 | 902.8 | -346.9 |
| 1705060 | 42.1850 | 77.9418 | 605.3 | 1295.4 | -690.7 |
| 1804673 | 42.0404 | 77.8474 | 682.4 | 1501.1 | -819.6 |
| 1804777 | 42.1952 | 77.9106 | 572.1 | 1254.6 | -683.4 |
| 1904849 | 42.1240 | 78.1810 | 622.1 | 1355.8 | -734.6 |
| 2004854 | 42.3990 | 75.8804 | 436.8 | 951.0 | -515.1 |
| 2005087 | 42.3235 | 75.9480 | 307.2 | 944.9 | -641.6 |
| 2104169 | 42.0081 | 78.5120 | 726.9 | 1487.4 | -761.4 |
| 2204373 | 42.1337 | 78.5220 | 569.7 | 1184.1 | -615.4 |
| 2304713 | 42.0987 | 78.5358 | 442.3 | 1063.8 | -624.5 |
| 2403900 | 42.0958 | 78.6628 | 432.2 | 1050.0 | -618.7 |
| 2604170 | 42.0448 | 78.6929 | 682.1 | 1348.4 | -667.2 |
| 2704554 | 42.0564 | 78.6210 | 568.1 | 1216.5 | -649.2 |
| 2805327 | 42.3682 | 78.9914 | 396.8 | 623.3 | -227.4 |
| 2904134 | 42.1892 | 78.3522 | 459.0 | 1048.5 | -590.4 |
| 3304197 | 42.2616 | 78.3637 | 608.7 | 1129.3 | -521.8 |
| 3404529 | 42.1135 | 78.4545 | 531.3 | 1167.4 | -637.0 |
| 3504820 | 42.0036 | 78.4348 | 657.8 | 1436.5 | -779.7 |
| 3605204 | 42.3964 | 78.8370 | 517.2 | 765.7 | -249.3 |
| 4204550 | 42.4407 | 78.9594 | 342.3 | 527.3 | -185.9 |
| 4504594 | 42.4638 | 78.9825 | 337.4 | 513.6 | -177.1 |
| 4704238 | 42.1115 | 78.9775 | 550.2 | 1039.1 | -489.8 |
| 5004088 | 42.0238 | 78.9518 | 397.2 | 1006.4 | -609.9 |
| 5104142 | 42.8987 | 76.6506 | 163.4 | 6.1 | 156.4 |
| 5204241 | 42.9460 | 76.6413 | 188.4 | 3.7 | 183.8 |
| 6004043 | 42.8611 | 76.4533 | 252.1 | 144.8 | 106.7 |
| 7004356 | 42.2767 | 79.5095 | 417.3 | 630.9 | -214.6 |
| 7204154 | 42.3421 | 79.1319 | 493.5 | 712.0 | -222.5 |
| 7204200 | 42.3129 | 79.5249 | 471.2 | 688.8 | -217.9 |
| 7304561 | 42.2345 | 79.3730 | 468.2 | 743.7 | -279.2 |
| 7304437 | 42.1503 | 79.3379 | 539.8 | 805.3 | -268.8 |
| 7404671 | 42.2398 | 79.4202 | 465.7 | 738.5 | -273.7 |
| 7504173 | 42.5235 | 79.0949 | 256.0 | 335.9 | -80.8 |
| 7504039 | 42.1661 | 79.2845 | 540.1 | 899.8 | -360.6 |
| 7604204 | 42.1606 | 79.6731 | 453.2 | 734.6 | -282.2 |
| 7804948 | 42.3873 | 79.3905 | 353.9 | 491.9 | -139.0 |
| 7804867 | 42.4314 | 79.3865 | 204.5 | 303.3 | -99.7 |
| 8005267 | 42.4317 | 79.4196 | 187.8 | 289.6 | -102.7 |
| 8104024 | 42.2499 | 79.6747 | 400.8 | 612.6 | -212.8 |
| 8204535 | 42.5115 | 79.2632 | 200.9 | 254.2 | -54.3 |
| 8404156 | 42.3344 | 79.3905 | 406.9 | 598.0 | -192.0 |
| 8405447 | 42.3790 | 79.1355 | 489.8 | 678.2 | -189.0 |
| 8504001 | 42.1085 | 76.7972 | 264.0 | 848.9 | -585.8 |
| 8503933 | 42.2716 | 76.9198 | 458.4 | 927.8 | -470.3 |
| 8604191 | 42.1734 | 76.6182 | 390.4 | 962.3 | -573.3 |
| 8604026 | 42.2762 | 76.9454 | 499.9 | 934.2 | -435.3 |
| 8703974 | 42.0518 | 76.8888 | 479.5 | 1295.4 | -816.9 |
| 8704923 | 42.0225 | 76.9471 | 378.9 | 1229.6 | -851.6 |
| 9104087 | 42.2201 | 76.7700 | 341.1 | 851.9 | -512.1 |
| 9204863 | 42.2523 | 76.7787 | 466.0 | 975.4 | -510.2 |
| 9204543 | 42.3833 | 75.7704 | 454.5 | 1027.2 | -573.6 |
| 9704714 | 42.5185 | 76.0009 | 480.1 | 808.3 | -330.1 |
| 9804455 | 42.3905 | 75.0445 | 456.0 | 1010.4 | -557.8 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 9804073 | 42.3739 | 75.0427 | 610.5 | 1200.9 | -594.4 |
| 9904214 | 42.1826 | 74.9218 | 544.4 | 1562.1 | -1020.8 |
| 9904379 | 42.2736 | 74.6278 | 563.3 | 1347.2 | -787.9 |
| 10004364 | 42.3169 | 75.2341 | 508.4 | 1229.9 | -724.5 |
| 10304240 | 42.8759 | 78.5030 | 280.4 | 111.3 | 168.2 |
| 10504527 | 42.9346 | 78.6118 | 253.3 | 32.0 | 220.4 |
| 10604758 | 42.9130 | 78.5067 | 253.9 | 59.1 | 193.9 |
| 10904816 | 42.5943 | 79.0067 | 221.0 | 257.3 | -37.2 |
| 11104181 | 42.6263 | 78.6010 | 531.9 | 579.1 | -48.2 |
| 11404725 | 42.6389 | 78.8869 | 301.1 | 310.9 | -10.7 |
| 11504157 | 42.8360 | 78.6178 | 251.2 | 120.7 | 129.5 |
| 11604231 | 42.6947 | 79.0126 | 199.0 | 129.5 | 68.6 |
| 11804108 | 42.7833 | 78.8505 | 182.3 | 64.0 | 117.3 |
| 11904123 | 42.7143 | 78.9664 | 190.2 | 89.0 | 100.6 |
| 12105509 | 42.7017 | 78.9400 | 217.3 | 133.2 | 83.2 |
| 12704341 | 42.6840 | 78.5688 | 295.0 | 289.6 | 4.6 |
| 12804183 | 42.8291 | 78.8498 | 178.9 | 36.6 | 141.7 |
| 12804462 | 42.6928 | 78.4947 | 461.2 | 465.4 | -4.6 |
| 12904545 | 42.9610 | 78.5073 | 243.2 | 10.1 | 232.3 |
| 13104645 | 42.6052 | 78.8684 | 407.8 | 438.3 | -31.4 |
| 13204668 | 42.6048 | 78.8951 | 356.0 | 401.1 | -46.0 |
| 13204184 | 42.5747 | 78.4686 | 473.7 | 606.6 | -133.5 |
| 13504576 | 42.5463 | 78.5588 | 536.1 | 671.5 | -136.2 |
| 13704632 | 42.5663 | 78.5899 | 496.2 | 603.5 | -108.2 |
| 14104434 | 42.9163 | 78.2573 | 323.1 | 137.2 | 185.0 |
| 14104477 | 42.9168 | 78.0808 | 316.4 | 114.0 | 201.5 |
| 14704374 | 42.9071 | 78.3502 | 291.1 | 89.9 | 200.3 |
| 15206726 | 42.9410 | 77.9356 | 274.9 | 67.1 | 207.3 |
| 15204551 | 42.9292 | 77.9628 | 284.4 | 86.0 | 197.5 |
| 15305213 | 42.9588 | 78.3265 | 284.4 | 56.4 | 227.1 |
| 15503993 | 42.8807 | 74.9165 | 476.4 | 7.0 | 468.5 |
| 15604056 | 42.8725 | 77.7067 | 278.0 | 137.2 | 139.9 |
| 15604149 | 42.8942 | 77.7919 | 172.5 | 29.9 | 141.7 |
| 15803942 | 42.6853 | 77.6618 | 497.7 | 576.1 | -79.2 |
| 15804567 | 42.9323 | 77.8841 | 243.5 | 38.1 | 201.5 |
| 15904188 | 42.7664 | 77.7551 | 349.9 | 330.1 | 18.9 |
| 16005061 | 42.8535 | 77.8172 | 184.4 | 96.6 | 86.9 |
| 16104451 | 42.9369 | 77.7130 | 209.7 | 10.1 | 198.7 |
| 16304166 | 42.7960 | 75.9408 | 283.2 | 225.2 | 57.3 |
| 16404217 | 42.7671 | 77.8823 | 176.5 | 156.1 | 19.5 |
| 16404234 | 42.7519 | 77.9502 | 322.5 | 317.0 | 4.6 |
| 16504457 | 42.8804 | 77.6226 | 186.2 | 143.3 | 142.0 |
| 16604053 | 42.7649 | 77.6594 | 421.2 | 410.3 | 7.6 |
| 16704630 | 42.6503 | 77.7560 | 182.6 | 286.5 | -108.5 |
| 16804069 | 42.8716 | 77.9322 | 269.4 | 130.1 | 138.4 |
| 17504032 | 42.7963 | 75.4047 | 459.6 | 334.7 | 124.1 |
| 17604085 | 42.8798 | 75.6867 | 477.9 | 287.4 | 189.6 |
| 17604556 | 42.8666 | 75.3358 | 489.8 | 218.8 | 270.1 |
| 17704185 | 42.8435 | 75.6150 | 456.0 | 291.1 | 164.3 |
| 18204499 | 42.9150 | 75.4414 | 432.5 | 172.2 | 259.4 |
| 18304510 | 42.8377 | 75.4618 | 465.7 | 277.4 | 187.8 |
| 18804902 | 42.9204 | 76.2905 | 327.1 | 187.8 | 138.4 |
| 19604035 | 42.8007 | 77.4391 | 451.4 | 401.7 | 48.5 |
| 20003999 | 42.7968 | 77.3351 | 361.5 | 318.5 | 42.1 |
| 20104395 | 42.9328 | 77.3590 | 221.9 | 29.9 | 191.1 |
| 20203998 | 42.8648 | 77.3801 | 267.3 | 144.8 | 121.9 |
| 20804099 | 42.9420 | 77.4037 | 242.0 | 36.6 | 204.5 |
| 21104402 | 42.9051 | 77.4367 | 268.5 | 68.9 | 198.7 |
| 21504607 | 42.8202 | 77.2135 | 320.6 | 239.3 | 80.8 |
| 21604449 | 42.8688 | 77.1966 | 276.5 | 162.8 | 113.4 |
| 21603929 | 42.7424 | 77.5237 | 319.4 | 292.6 | 25.6 |
| 22404160 | 42.8369 | 77.0354 | 235.6 | 150.9 | 83.8 |
| 22503866 | 42.6785 | 77.4432 | 531.0 | 598.9 | -68.9 |

Table A-8a. (Cont.)
 ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 22505056 | 42.8227 | 77.0574 | 260.6 | 192.6 | 67.1 |
| 23804245 | 42.5503 | 74.8853 | 490.7 | 646.8 | -157.0 |
| 24004050 | 42.6045 | 75.2412 | 467.3 | 628.5 | -162.2 |
| 24104187 | 42.4128 | 76.7220 | 479.5 | 812.9 | -334.4 |
| 24104400 | 42.3677 | 76.8640 | 140.2 | 395.6 | -259.1 |
| 24503940 | 42.4208 | 76.8950 | 186.8 | 427.3 | -242.9 |
| 24804244 | 42.8251 | 76.8657 | 201.8 | 117.0 | 84.1 |
| 24804544 | 42.8689 | 76.9268 | 152.7 | 40.2 | 111.6 |
| 25104814 | 42.8947 | 76.7875 | 146.6 | 10.7 | 135.0 |
| 25204378 | 42.9239 | 76.8686 | 154.2 | 12.2 | 141.1 |
| 25303944 | 42.3089 | 77.2056 | 342.0 | 794.0 | -452.9 |
| 25804573 | 42.2355 | 77.2226 | 439.2 | 1012.5 | -574.2 |
| 26003943 | 42.1186 | 77.0874 | 527.6 | 1269.5 | -742.8 |
| 26004575 | 42.1444 | 77.1411 | 340.8 | 1024.7 | -684.9 |
| 26103864 | 42.2141 | 77.6800 | 715.4 | 1436.2 | -721.8 |
| 26207031 | 42.1935 | 77.6860 | 533.4 | 1272.2 | -739.4 |
| 26203896 | 42.2750 | 77.0616 | 514.2 | 998.5 | -485.2 |
| 26303932 | 42.2136 | 76.9663 | 388.3 | 1005.5 | -618.1 |
| 26404474 | 42.3313 | 77.6123 | 549.6 | 1082.6 | -534.0 |
| 26504355 | 42.1873 | 77.5911 | 698.9 | 1440.2 | -744.3 |
| 26705300 | 42.1281 | 77.5507 | 629.7 | 1414.3 | -787.3 |
| 26905063 | 42.4756 | 77.1944 | 432.8 | 673.0 | -241.1 |
| 27004247 | 42.2682 | 77.3347 | 534.3 | 1144.5 | -611.1 |
| 27003897 | 42.0969 | 77.6007 | 692.5 | 1492.9 | -801.3 |
| 27104172 | 42.0164 | 77.7385 | 639.2 | 1530.4 | -892.1 |
| 27203924 | 42.0630 | 77.4307 | 505.4 | 1232.0 | -730.6 |
| 27304007 | 42.3654 | 76.5033 | 404.8 | 708.7 | -308.5 |
| 27404446 | 42.3396 | 76.4969 | 442.3 | 877.5 | -436.2 |
| 27404130 | 42.4421 | 76.5928 | 444.1 | 762.0 | -318.8 |
| 27503938 | 42.5482 | 76.5531 | 182.3 | 374.3 | -194.5 |
| 27605017 | 42.5620 | 76.5707 | 267.9 | 449.9 | -183.2 |
| 27604051 | 42.5170 | 76.6920 | 328.6 | 536.4 | -208.8 |
| 28604469 | 42.8172 | 78.4135 | 363.6 | 256.0 | 106.7 |
| 28604432 | 42.8360 | 78.3325 | 440.4 | 327.7 | 111.9 |
| 28804349 | 42.8035 | 78.0004 | 392.6 | 325.5 | 66.1 |
| 29104092 | 42.6173 | 78.0803 | 479.5 | 612.6 | -137.2 |
| 29104162 | 42.6702 | 78.0826 | 451.4 | 522.1 | -73.5 |
| 29404385 | 42.6300 | 78.1539 | 539.8 | 626.4 | -87.5 |
| 29504133 | 42.8306 | 78.1170 | 463.0 | 345.9 | 116.1 |
| 29704537 | 42.8507 | 78.1817 | 442.6 | 321.3 | 120.4 |
| 30004649 | 42.7866 | 78.1357 | 482.5 | 397.8 | 83.8 |
| 30104392 | 42.7477 | 78.1979 | 490.1 | 469.4 | 19.8 |
| 30304212 | 42.7451 | 78.3582 | 405.7 | 371.9 | 32.9 |
| 30406073 | 42.7552 | 78.0976 | 458.1 | 420.6 | 36.9 |
| 30604797 | 42.7494 | 77.0038 | 253.3 | 256.0 | -3.7 |
| 30604796 | 42.6838 | 77.0223 | 293.8 | 336.5 | -43.6 |
| 30704410 | 42.4739 | 76.9555 | 336.2 | 522.7 | -187.5 |
| 60004055 | 42.6310 | 74.7082 | 603.2 | 524.9 | 78.3 |
| 60001160 | 42.6933 | 75.3618 | 418.5 | 445.0 | -26.5 |
| 60000443 | 42.1988 | 76.5370 | 328.3 | 909.5 | -581.3 |
| 60010608 | 42.3177 | 75.6711 | 428.2 | 1104.3 | -676.0 |
| 60010607 | 42.4565 | 75.4851 | 528.8 | 1013.2 | -484.3 |
| 60010609 | 42.3476 | 75.5887 | 516.3 | 1110.1 | -593.8 |
| 60010096 | 42.1855 | 74.7150 | 512.7 | 1543.2 | -1030.5 |
| 60010227 | 42.2978 | 74.6251 | 613.3 | 1327.7 | -714.5 |
| 60010138 | 42.7083 | 75.0833 | 495.3 | 427.6 | 67.7 |
| 60010725 | 42.5417 | 75.2083 | 352.3 | 659.9 | -307.5 |
| 60006787 | 42.7861 | 75.6898 | 465.1 | 413.9 | 51.2 |
| 60009848 | 42.0833 | 76.4167 | 393.8 | 1278.9 | -885.1 |
| 60009557 | 42.1667 | 76.3333 | 452.6 | 1325.3 | -872.6 |
| 60010335 | 42.2083 | 76.6250 | 432.2 | 1037.8 | -605.6 |
| 60012163 | 42.9369 | 76.3459 | 303.9 | 148.7 | 155.1 |
| 60011654 | 42.9167 | 76.2551 | 417.6 | 292.0 | 125.6 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 60099999 | 42.3333 | 75.9167 | 303.6 | 947.9 | -644.3 |
| 60008578 | 41.9167 | 74.8750 | 549.6 | 2200.7 | -1651.1 |
| 76100032 | 41.7501 | 79.6703 | 531.6 | 1188.4 | -656.8 |
| 76100056 | 42.1840 | 79.8704 | 273.1 | 499.9 | -226.8 |
| 76100078 | 41.9253 | 77.3414 | 584.6 | 1507.2 | -922.6 |
| 76100080 | 41.6716 | 79.3436 | 525.8 | 1359.4 | -833.6 |
| 76200069 | 42.0372 | 79.8002 | 474.9 | 823.0 | -348.1 |
| 76200077 | 41.8988 | 78.6512 | 466.6 | 1256.7 | -790.0 |
| 76200095 | 41.8876 | 77.5988 | 509.6 | 1568.5 | -1058.9 |
| 76300015 | 41.7838 | 76.3414 | 420.9 | 1888.5 | -1467.6 |
| 76300015 | 41.8848 | 77.4952 | 491.3 | 1320.7 | -829.4 |
| 76400109 | 42.1428 | 80.0477 | 198.1 | 424.3 | -226.2 |
| 76403173 | 41.9449 | 78.8428 | 640.4 | 1327.4 | -687.0 |
| 76400609 | 41.9539 | 79.2014 | 498.0 | 1098.8 | -600.8 |
| 76404380 | 41.9375 | 79.2688 | 551.7 | 1153.1 | -601.4 |
| 76500163 | 41.9662 | 79.7275 | 540.4 | 954.3 | -413.9 |
| 76500368 | 41.6900 | 77.3109 | 511.5 | 1635.6 | -1124.1 |
| 76500955 | 41.8353 | 79.0324 | 602.3 | 1392.3 | -790.0 |
| 76600004 | 41.9303 | 76.4063 | 218.2 | 1628.9 | -1410.6 |
| 76900301 | 41.9299 | 77.8835 | 638.3 | 1572.8 | -934.5 |
| 76900295 | 41.6697 | 77.7295 | 575.8 | 1860.8 | -1285.0 |
| 77003237 | 41.9170 | 78.5100 | 537.1 | 1375.9 | -838.8 |
| 77000357 | 41.9479 | 77.8053 | 562.1 | 1507.5 | -945.5 |
| 77002693 | 41.7883 | 79.0225 | 597.4 | 1424.0 | -826.6 |
| 77002435 | 41.9959 | 79.3155 | 414.5 | 926.6 | -512.1 |
| 77000346 | 41.9196 | 77.9216 | 674.8 | 1617.3 | -942.4 |
| 77107520 | 41.9870 | 78.9170 | 452.0 | 1105.2 | -653.2 |
| 77102602 | 41.6534 | 79.3275 | 402.3 | 1261.0 | -858.6 |
| 77209376 | 41.6822 | 78.3117 | 656.8 | 1876.0 | -1219.2 |
| 77200005 | 41.6822 | 75.1808 | 458.7 | 2438.4 | -1979.7 |
| 77300009 | 41.6991 | 76.3422 | 417.3 | 2115.3 | -1698.0 |
| 77309369 | 41.7809 | 78.7886 | 455.7 | 1356.4 | -900.7 |
| 77309580 | 41.6825 | 78.6465 | 674.8 | 1716.6 | -1041.8 |
| 77300345 | 42.1576 | 79.8114 | 435.9 | 690.1 | -254.2 |
| 77300006 | 41.7778 | 75.6979 | 380.4 | 2087.3 | -1706.9 |
| 77420429 | 41.8335 | 80.0188 | 411.8 | 874.2 | -462.4 |
| 77420057 | 41.6896 | 77.5470 | 478.2 | 1716.0 | -1237.8 |
| 77520468 | 41.6562 | 79.8666 | 494.4 | 1151.2 | -656.8 |
| 77520466 | 41.8160 | 79.6533 | 550.5 | 1143.0 | -592.5 |
| 77520372 | 41.8714 | 79.7727 | 481.6 | 929.6 | -448.1 |
| 77524704 | 41.9207 | 79.5535 | 468.2 | 981.5 | -513.3 |
| 77520370 | 41.9534 | 79.8269 | 398.4 | 794.0 | -395.6 |
| 77620445 | 41.7787 | 80.0519 | 430.1 | 901.0 | -470.9 |
| 77620500 | 41.8073 | 80.1028 | 357.8 | 793.7 | -435.9 |
| 77820415 | 41.9204 | 79.9329 | 378.0 | 767.8 | -389.8 |
| 37358001 | 42.3424 | 75.0818 | 444.1 | 1108.9 | -664.8 |
| 37357001 | 42.5474 | 75.2746 | 429.2 | 695.9 | -266.7 |
| 37357002 | 42.6933 | 75.3451 | 418.5 | 443.5 | -25.0 |
| 37356002 | 42.8608 | 75.4024 | 371.9 | 149.4 | 222.5 |
| 37338002 | 42.0949 | 75.9035 | 286.5 | 1193.3 | -906.8 |
| 37339001 | 42.1664 | 76.0759 | 295.0 | 1134.5 | -839.4 |
| 37340001 | 42.2223 | 76.4200 | 294.1 | 912.6 | -618.4 |
| 37340003 | 42.0839 | 76.2718 | 298.7 | 1189.9 | -891.2 |
| 37341002 | 42.2375 | 76.7078 | 506.9 | 1024.7 | -517.9 |
| 37341005 | 42.1985 | 76.5382 | 328.3 | 906.5 | -578.2 |
| 37341009 | 42.1027 | 76.6840 | 328.9 | 1025.3 | -696.5 |
| 37341010 | 42.0086 | 76.5626 | 234.7 | 1133.9 | -899.2 |
| 37342001 | 42.2234 | 76.9045 | 389.2 | 920.5 | -531.3 |
| 37342003 | 42.2312 | 76.8249 | 300.8 | 816.9 | -516.0 |
| 37342008 | 42.0959 | 76.8814 | 277.7 | 998.2 | -720.5 |
| 37342009 | 42.0563 | 76.7748 | 411.2 | 1190.9 | -779.7 |
| 37343015 | 42.1909 | 77.2376 | 482.8 | 1104.0 | -621.2 |
| 37343020 | 42.1568 | 77.0155 | 353.6 | 980.8 | -627.3 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 37343021 | 42.0839 | 77.1901 | 470.3 | 1343.6 | -873.3 |
| 37343022 | 42.0847 | 77.2486 | 307.5 | 1142.7 | -835.2 |
| 37343024 | 42.2237 | 77.0167 | 530.7 | 1097.6 | -566.9 |
| 37343027 | 42.0278 | 77.0550 | 507.5 | 1434.4 | -926.9 |
| 37344003 | 42.1954 | 77.3187 | 509.9 | 1192.1 | -682.1 |
| 37344007 | 42.1601 | 77.4670 | 520.9 | 1267.1 | -746.2 |
| 37344017 | 42.1469 | 77.4114 | 518.2 | 1287.8 | -769.6 |
| 37344036 | 42.0887 | 77.3587 | 427.9 | 1189.6 | -761.7 |
| 37344052 | 42.0688 | 77.4108 | 471.2 | 1193.0 | -721.8 |
| 37344056 | 42.0471 | 77.2973 | 517.9 | 1454.8 | -937.0 |
| 37345004 | 42.2366 | 77.5059 | 647.7 | 1306.7 | -659.0 |
| 37345024 | 42.1361 | 77.6905 | 705.3 | 1467.9 | -762.6 |
| 37345035 | 42.1005 | 77.6338 | 678.2 | 1496.9 | -818.7 |
| 37345043 | 42.0500 | 77.6759 | 694.6 | 1575.8 | -881.2 |
| 37345057 | 42.0220 | 77.5713 | 583.7 | 1493.8 | -910.1 |
| 37345060 | 42.0193 | 77.5144 | 492.6 | 1473.7 | -981.2 |
| 37330001 | 42.3608 | 75.9920 | 396.2 | 939.1 | -542.8 |
| 37331001 | 42.4222 | 76.2016 | 358.7 | 763.8 | -405.1 |
| 37332001 | 42.3918 | 76.3918 | 326.4 | 725.7 | -399.3 |
| 37333001 | 42.4704 | 76.5041 | 121.9 | 474.0 | -352.0 |
| 37333002 | 42.4309 | 76.5093 | 120.7 | 515.7 | -395.0 |
| 37333008 | 42.3295 | 76.5960 | 477.0 | 851.6 | -374.6 |
| 37333009 | 42.3333 | 76.7205 | 448.7 | 726.9 | -278.3 |
| 37334001 | 42.4982 | 76.8371 | 374.9 | 597.1 | -222.2 |
| 37334003 | 42.4082 | 76.7712 | 574.9 | 897.6 | -322.8 |
| 37334011 | 42.4388 | 76.9613 | 481.3 | 713.8 | -232.6 |
| 37334014 | 42.3824 | 76.8824 | 208.8 | 447.4 | -238.7 |
| 37334017 | 42.3615 | 76.9935 | 511.8 | 812.3 | -300.5 |
| 37334020 | 42.3147 | 76.8135 | 317.0 | 725.4 | -408.4 |
| 37335006 | 42.4860 | 77.0534 | 347.2 | 510.8 | -163.7 |
| 37335017 | 42.4805 | 77.0778 | 380.4 | 525.8 | -145.4 |
| 37335019 | 42.4550 | 77.0748 | 446.2 | 620.3 | -174.0 |
| 37335027 | 42.4018 | 77.2153 | 22.5 | 555.7 | -333.1 |
| 37335030 | 42.3999 | 77.1123 | 483.1 | 712.6 | -229.5 |
| 37335031 | 42.3385 | 77.0885 | 507.5 | 859.5 | -352.0 |
| 37336001 | 42.4962 | 77.3300 | 557.5 | 876.0 | -318.8 |
| 37336003 | 42.4560 | 77.3136 | 424.9 | 752.9 | -328.0 |
| 37336004 | 42.4196 | 77.4951 | 489.8 | 931.8 | -442.0 |
| 37336005 | 42.3975 | 77.4158 | 359.4 | 787.9 | -428.5 |
| 37336006 | 42.3950 | 77.2715 | 299.3 | 687.9 | -388.6 |
| 37336007 | 42.3429 | 77.3400 | 377.6 | 920.2 | -542.5 |
| 37336009 | 42.3007 | 77.2882 | 343.8 | 869.9 | -526.1 |
| 37337001 | 42.4625 | 77.6166 | 610.8 | 990.0 | -379.2 |
| 37337004 | 42.3728 | 77.5726 | 480.1 | 970.8 | -490.7 |
| 37337013 | 42.3339 | 77.5844 | 568.5 | 1107.0 | -538.6 |
| 37337014 | 42.3103 | 77.7130 | 493.5 | 1078.1 | -584.6 |
| 37337017 | 42.2861 | 77.6834 | 634.0 | 1226.8 | -592.8 |
| 37322001 | 42.5209 | 75.8947 | 326.1 | 725.4 | -399.3 |
| 37323001 | 42.6422 | 76.2356 | 459.9 | 588.3 | -128.3 |
| 37324006 | 42.5751 | 76.3122 | 420.6 | 633.4 | -212.8 |
| 37324013 | 42.5493 | 76.3970 | 413.3 | 625.1 | -211.8 |
| 37324018 | 42.5348 | 76.4852 | 312.7 | 479.1 | -166.4 |
| 37325003 | 42.6848 | 76.6443 | 251.2 | 307.8 | -56.7 |
| 37326001 | 42.6749 | 76.7832 | 267.9 | 345.6 | -77.7 |
| 37326002 | 42.6208 | 76.9497 | 249.6 | 333.1 | -83.5 |
| 37326008 | 42.5322 | 76.9828 | 341.4 | 502.6 | -161.2 |
| 37326009 | 42.5209 | 76.8735 | 232.6 | 452.9 | -220.4 |
| 37326012 | 42.5309 | 76.7733 | 477.0 | 712.3 | -235.3 |
| 37326014 | 42.6647 | 76.9840 | 158.5 | 203.9 | -45.4 |
| 37327001 | 42.7165 | 77.0103 | 270.7 | 292.0 | -21.3 |
| 37327011 | 42.5110 | 77.0419 | 407.8 | 581.3 | -173.4 |
| 37327013 | 42.5866 | 77.2393 | 434.3 | 554.1 | -119.8 |
| 37327015 | 42.5151 | 77.1475 | 416.4 | 600.8 | -184.4 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 37328004 | 42.6141 | 77.4137 | 237.7 | 426.7 | -189.0 |
| 37329002 | 42.5446 | 77.6741 | 283.5 | 518.2 | -234.7 |
| 37329003 | 42.6999 | 77.6695 | 487.7 | 553.2 | -65.5 |
| 37314001 | 42.8809 | 75.6449 | 384.0 | 113.1 | 271.0 |
| 37315002 | 42.8892 | 76.1899 | 189.0 | 74.4 | 114.6 |
| 37316002 | 42.9568 | 76.5792 | 170.7 | 0.3 | 170.4 |
| 37318004 | 42.9104 | 77.9243 | 162.2 | 8.2 | 153.9 |
| 37318007 | 42.8435 | 77.1697 | 285.0 | 100.6 | 184.4 |
| 37319001 | 42.9458 | 77.3889 | 214.3 | 12.5 | 201.8 |
| 37319005 | 42.8251 | 77.3315 | 317.0 | 243.8 | 73.2 |
| 37319020 | 42.8685 | 77.4839 | 271.3 | 151.8 | 119.5 |
| 37320001 | 42.9523 | 77.6186 | 208.8 | 4.0 | 204.8 |
| 37320011 | 42.8272 | 77.5622 | 246.9 | 167.6 | 79.2 |
| 37320015 | 42.8583 | 77.6431 | 313.9 | 158.5 | 155.4 |
| 37320018 | 42.7979 | 77.6802 | 329.8 | 264.0 | 65.8 |
| 37320019 | 42.8660 | 77.5150 | 263.7 | 137.2 | 126.5 |
| 37309003 | 43.0025 | 76.1873 | 308.8 | 102.1 | 206.7 |
| 37347002 | 41.7547 | 76.4218 | 232.0 | 1569.7 | -1337.8 |
| 37348002 | 41.9816 | 76.7367 | 410.0 | 1341.1 | -931.2 |
| 37348003 | 41.8215 | 76.5326 | 440.4 | 1670.3 | -1229.9 |
| 37349001 | 41.9818 | 76.9213 | 487.4 | 1434.1 | -946.7 |
| 37349002 | 41.8899 | 76.8746 | 565.7 | 1702.3 | -1136.6 |
| 37349003 | 41.8362 | 76.9678 | 500.5 | 1656.0 | -1155.5 |
| 37350001 | 41.9915 | 77.1392 | 321.9 | 1289.3 | -967.4 |
| 37350040 | 41.9337 | 77.1438 | 436.5 | 1466.1 | -1029.6 |
| 37350042 | 41.8990 | 77.2306 | 489.5 | 1528.9 | -1039.4 |
| 37350049 | 41.7692 | 77.1370 | 440.4 | 1668.8 | -1228.3 |
| 37350050 | 41.7540 | 77.0464 | 419.1 | 1629.8 | -1210.7 |
| 37351015 | 41.9069 | 77.4159 | 533.4 | 1532.2 | -998.8 |
| 37351018 | 41.8799 | 77.4635 | 513.0 | 1597.8 | -1084.8 |
| 37352002 | 41.9907 | 77.6833 | 656.5 | 1545.6 | -889.1 |
| 37352006 | 41.9986 | 77.5778 | 627.6 | 1521.3 | -893.7 |
| 37352011 | 41.9791 | 77.6225 | 520.9 | 1477.7 | -956.8 |
| 37352033 | 41.8495 | 77.6169 | 643.4 | 1674.0 | -1030.5 |
| 37352034 | 41.8351 | 77.6821 | 631.5 | 1657.2 | -1025.7 |
| 39008003 | 43.0310 | 78.2774 | 269.7 | 6.1 | 263.7 |
| 39012006 | 42.8807 | 77.9792 | 334.7 | 178.3 | 156.4 |
| 39012013 | 42.8763 | 77.8646 | 193.5 | 63.4 | 130.1 |
| 39012019 | 42.7870 | 77.8689 | 187.1 | 144.8 | 42.4 |
| 39012023 | 42.8457 | 77.9697 | 364.2 | 254.5 | 109.7 |
| 39012024 | 42.8182 | 77.9884 | 338.3 | 256.0 | 82.3 |
| 39012026 | 42.7919 | 77.9768 | 361.2 | 331.6 | 29.6 |
| 39012027 | 42.7602 | 77.9950 | 405.4 | 393.2 | 12.2 |
| 39013001 | 42.9904 | 78.1894 | 271.0 | 30.5 | 240.5 |
| 39013003 | 42.9482 | 78.0437 | 283.5 | 65.5 | 217.9 |
| 39013013 | 42.8927 | 78.1801 | 350.5 | 166.1 | 184.4 |
| 39013030 | 42.8997 | 78.0704 | 323.1 | 141.7 | 181.4 |
| 39013062 | 42.8890 | 78.2476 | 285.0 | 132.9 | 152.1 |
| 39014003 | 42.9842 | 78.4382 | 256.0 | 9.8 | 246.3 |
| 39014015 | 42.9877 | 78.4283 | 268.2 | 30.8 | 237.4 |
| 39014028 | 42.9468 | 78.4185 | 262.1 | 32.3 | 229.8 |
| 39014040 | 42.8761 | 78.3290 | 371.9 | 166.4 | 205.4 |
| 39014047 | 42.8550 | 78.3998 | 371.9 | 254.8 | 117.0 |
| 39014052 | 42.8402 | 78.4586 | 286.2 | 164.6 | 121.6 |
| 39014082 | 42.7733 | 78.4824 | 358.1 | 240.8 | 117.3 |
| 39014098 | 42.7651 | 78.2814 | 451.1 | 368.8 | 82.3 |
| 39014099 | 42.8976 | 78.4620 | 275.8 | 91.1 | 184.7 |
| 39015002 | 42.9732 | 78.6265 | 221.0 | 29.0 | 192.0 |
| 39015004 | 42.9556 | 78.9140 | 245.4 | 44.2 | 201.2 |
| 39015037 | 42.8970 | 78.6757 | 225.6 | 39.6 | 185.9 |
| 39015041 | 42.8879 | 78.5949 | 221.0 | 48.8 | 172.2 |
| 39015071 | 42.8374 | 78.7412 | 198.1 | 51.8 | 146.3 |
| 39015087 | 42.8270 | 78.5166 | 306.3 | 187.5 | 118.9 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39015103 | 42.7714 | 78.7276 | 269.7 | 181.1 | 88.7 |
| 39015107 | 42.7769 | 78.5692 | 303.3 | 251.5 | 51.8 |
| 39016016 | 42.9219 | 78.7916 | 201.2 | 18.6 | 182.6 |
| 39016017 | 42.8848 | 78.7560 | 185.3 | 9.8 | 175.6 |
| 39016027 | 42.8106 | 78.7929 | 193.5 | 61.0 | 132.6 |
| 39016041 | 42.7947 | 78.7556 | 225.6 | 106.4 | 119.2 |
| 39016042 | 42.7629 | 78.7784 | 239.3 | 149.4 | 89.9 |
| 39017001 | 42.7313 | 77.8713 | 175.0 | 204.2 | -29.3 |
| 39017002 | 42.5795 | 77.9413 | 300.2 | 490.1 | -189.9 |
| 39018002 | 42.7164 | 78.0058 | 406.9 | 445.9 | -39.0 |
| 39018003 | 42.6853 | 78.1139 | 426.7 | 472.7 | -46.0 |
| 39018018 | 42.5011 | 78.2295 | 599.5 | 880.6 | -281.0 |
| 39018020 | 42.5704 | 78.0789 | 486.2 | 662.0 | -175.9 |
| 39019004 | 42.7294 | 78.4688 | 302.1 | 273.4 | 28.7 |
| 39019015 | 42.6527 | 78.4931 | 414.8 | 461.8 | -46.9 |
| 39019022 | 42.7270 | 78.4182 | 452.0 | 427.9 | 24.1 |
| 39019025 | 42.7009 | 78.4566 | 298.4 | 300.8 | -2.4 |
| 39019029 | 42.6513 | 78.3221 | 530.4 | 606.6 | -76.2 |
| 39019030 | 42.6228 | 78.4260 | 460.2 | 557.2 | -96.9 |
| 39019031 | 42.6848 | 78.3009 | 481.6 | 528.2 | -46.6 |
| 39019032 | 42.6094 | 78.2582 | 546.8 | 685.8 | -139.0 |
| 39019033 | 42.5869 | 78.3835 | 507.5 | 653.5 | -146.0 |
| 39019037 | 42.5332 | 78.3389 | 566.9 | 786.4 | -219.5 |
| 39019038 | 42.5776 | 78.2929 | 554.7 | 745.8 | -191.1 |
| 39019042 | 42.5306 | 78.4236 | 452.0 | 753.8 | -201.8 |
| 39020001 | 42.7420 | 78.6416 | 286.5 | 246.9 | 39.6 |
| 39020008 | 42.7253 | 78.5949 | 256.0 | 262.1 | -6.1 |
| 39020021 | 42.7445 | 78.5237 | 352.0 | 304.8 | 47.2 |
| 39020040 | 42.6955 | 78.7059 | 359.7 | 384.7 | -25.0 |
| 39020050 | 42.6351 | 78.7321 | 317.0 | 350.8 | -33.8 |
| 39020068 | 42.6653 | 78.6383 | 461.8 | 393.2 | 68.6 |
| 39020081 | 42.6134 | 78.5981 | 503.2 | 554.7 | -51.5 |
| 39020089 | 42.6783 | 78.5261 | 454.5 | 459.6 | -5.2 |
| 39020092 | 42.6019 | 78.7101 | 326.7 | 386.2 | -59.4 |
| 39020093 | 42.5982 | 78.6488 | 379.2 | 457.2 | -78.0 |
| 39020099 | 42.5507 | 78.7303 | 451.1 | 570.6 | -119.5 |
| 39020103 | 42.5302 | 78.6767 | 444.7 | 563.9 | -119.2 |
| 39020108 | 42.5220 | 78.5859 | 432.8 | 584.3 | -151.5 |
| 39021003 | 42.7484 | 78.8014 | 234.7 | 161.5 | 73.2 |
| 39021018 | 42.7134 | 78.8162 | 245.4 | 198.1 | 47.2 |
| 39021020 | 42.7108 | 78.8857 | 240.8 | 159.4 | 81.4 |
| 39021026 | 42.7382 | 78.7500 | 256.3 | 204.2 | 52.1 |
| 39021038 | 42.6137 | 78.9696 | 233.2 | 242.3 | -9.1 |
| 39021042 | 42.6754 | 78.5994 | 233.2 | 178.3 | 54.9 |
| 39021052 | 42.6754 | 78.8037 | 344.4 | 321.6 | 22.9 |
| 39021062 | 42.6165 | 78.8022 | 374.9 | 440.1 | -65.2 |
| 39021092 | 42.5614 | 78.9260 | 292.6 | 386.5 | -93.9 |
| 39021100 | 42.5422 | 78.8393 | 407.2 | 516.6 | -109.4 |
| 39021115 | 42.5677 | 78.7519 | 459.3 | 559.6 | -100.3 |
| 39021122 | 42.5154 | 78.9695 | 248.4 | 370.3 | -121.9 |
| 39021133 | 42.5184 | 78.7835 | 438.9 | 586.7 | -147.8 |
| 39022001 | 42.6697 | 79.0280 | 187.1 | 137.2 | 50.0 |
| 39022005 | 42.6135 | 79.1057 | 181.4 | 182.9 | -1.5 |
| 39022011 | 42.6094 | 79.0457 | 208.8 | 221.0 | -12.2 |
| 39022023 | 42.5737 | 79.0967 | 225.6 | 259.1 | -33.5 |
| 39022026 | 42.5463 | 79.0413 | 189.0 | 271.3 | -82.3 |
| 39022028 | 42.5381 | 79.2306 | 175.3 | 198.1 | -22.9 |
| 39022067 | 42.5187 | 79.1723 | 219.5 | 281.9 | -62.5 |
| 39022083 | 42.5192 | 79.0242 | 246.9 | 362.7 | -115.8 |
| 39023001 | 42.4520 | 77.9948 | 610.2 | 929.6 | -319.4 |
| 39023003 | 42.4348 | 77.8426 | 468.8 | 835.5 | -366.7 |
| 39023009 | 42.3295 | 77.9524 | 529.1 | 1082.0 | -552.9 |
| 39023010 | 42.3204 | 77.7990 | 467.6 | 1018.0 | -550.5 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39023015 | 42.4289 | 77.9564 | 550.8 | 918.7 | -367.9 |
| 39024031 | 42.3409 | 78.1476 | 549.9 | 998.5 | -448.7 |
| 39024037 | 42.3303 | 78.0449 | 531.0 | 1086.3 | -555.3 |
| 39024040 | 42.2702 | 78.0569 | 411.5 | 1026.6 | -615.1 |
| 39024041 | 42.2579 | 78.0078 | 516.0 | 1078.7 | -562.7 |
| 39024043 | 42.4260 | 78.1797 | 457.5 | 782.4 | -324.9 |
| 39024045 | 42.4531 | 78.1743 | 509.6 | 823.0 | -313.3 |
| 39024050 | 42.3552 | 78.0917 | 524.3 | 941.8 | -417.6 |
| 39025001 | 42.4682 | 78.4621 | 463.3 | 730.6 | -267.3 |
| 39025004 | 42.3374 | 78.4684 | 495.3 | 887.6 | -392.3 |
| 39025005 | 42.4488 | 78.2812 | 587.3 | 916.2 | -328.9 |
| 39025007 | 42.3166 | 78.2879 | 634.0 | 1108.9 | -474.9 |
| 39026001 | 42.4940 | 78.6879 | 391.7 | 548.6 | -157.0 |
| 39026002 | 42.4861 | 78.6455 | 403.9 | 589.8 | -185.9 |
| 39026003 | 42.4095 | 78.6934 | 460.2 | 723.6 | -263.3 |
| 39026004 | 42.4232 | 78.6144 | 440.4 | 693.7 | -253.3 |
| 39026005 | 42.4443 | 78.6577 | 490.7 | 725.4 | -234.7 |
| 39026006 | 42.3717 | 78.6919 | 521.2 | 812.3 | -291.1 |
| 39026007 | 42.4336 | 78.7310 | 426.7 | 656.8 | -230.1 |
| 39027002 | 42.4967 | 78.9115 | 274.3 | 433.4 | -159.1 |
| 39027003 | 42.4996 | 78.8560 | 337.4 | 484.6 | -147.2 |
| 39027012 | 42.4597 | 78.8983 | 322.5 | 487.7 | -165.2 |
| 39027023 | 42.4479 | 78.8460 | 367.6 | 560.8 | -193.2 |
| 39027027 | 42.4638 | 78.7943 | 296.3 | 440.4 | -144.2 |
| 39027053 | 42.4073 | 78.9059 | 417.6 | 645.9 | -228.3 |
| 39027063 | 42.3931 | 78.8825 | 394.4 | 655.3 | -260.9 |
| 39027066 | 42.3451 | 78.9115 | 555.0 | 826.0 | -271.0 |
| 39028003 | 42.4984 | 79.2137 | 227.1 | 297.2 | -70.1 |
| 39028018 | 42.4583 | 79.2489 | 298.7 | 402.3 | -103.6 |
| 39028034 | 42.4723 | 79.1350 | 356.6 | 474.0 | -117.3 |
| 39028040 | 42.4517 | 79.1239 | 425.2 | 576.1 | -150.9 |
| 39028052 | 42.4342 | 79.1808 | 381.0 | 512.7 | -131.7 |
| 39028055 | 42.3859 | 79.2292 | 541.0 | 720.9 | -179.8 |
| 39028062 | 42.4523 | 79.0718 | 487.7 | 667.5 | -179.8 |
| 39028071 | 42.2999 | 79.1863 | 621.8 | 848.9 | -227.1 |
| 39028081 | 42.4734 | 79.0272 | 352.0 | 518.2 | -166.1 |
| 39028088 | 42.4556 | 79.0275 | 423.7 | 612.6 | -189.0 |
| 39028103 | 42.2813 | 79.0260 | 416.7 | 708.4 | -291.7 |
| 39029001 | 42.4863 | 79.3387 | 176.8 | 251.5 | -74.7 |
| 39029029 | 42.4482 | 79.2757 | 271.3 | 368.8 | -97.5 |
| 39029036 | 42.3906 | 79.4744 | 201.5 | 329.2 | -127.7 |
| 39029048 | 42.3676 | 79.3307 | 375.5 | 548.0 | -172.5 |
| 39029059 | 42.4071 | 79.2651 | 442.0 | 586.4 | -144.5 |
| 39030002 | 42.3556 | 79.5594 | 189.9 | 332.2 | -142.3 |
| 39030004 | 42.3372 | 79.5846 | 201.2 | 344.4 | -143.3 |
| 39031008 | 42.2184 | 77.8278 | 673.0 | 1330.1 | -657.1 |
| 39031012 | 42.1348 | 77.9711 | 450.8 | 1196.3 | -745.5 |
| 39031014 | 42.1370 | 77.8277 | 630.3 | 1450.2 | -819.9 |
| 39031019 | 42.1158 | 77.7694 | 676.4 | 1476.1 | -799.8 |
| 39031028 | 42.0188 | 77.9488 | 612.0 | 1433.8 | -821.7 |
| 39031066 | 42.0781 | 77.7707 | 669.6 | 1490.5 | -820.8 |
| 39032009 | 42.1818 | 78.0798 | 635.5 | 1307.0 | -671.5 |
| 39032013 | 42.2143 | 78.0000 | 544.1 | 1182.3 | -638.3 |
| 39032020 | 42.1433 | 78.0902 | 584.3 | 1311.2 | -726.9 |
| 39032027 | 42.0955 | 78.1728 | 566.9 | 1325.0 | -758.0 |
| 39032031 | 42.0060 | 78.1469 | 615.4 | 1485.0 | -869.6 |
| 39032033 | 42.0578 | 78.0106 | 737.0 | 1596.2 | -859.2 |
| 39033001 | 42.2206 | 78.4683 | 579.7 | 1109.2 | -529.4 |
| 39033009 | 42.1135 | 78.3789 | 542.5 | 1225.3 | -682.8 |
| 39033017 | 42.2385 | 78.3937 | 532.2 | 1069.2 | -537.1 |
| 39033025 | 42.1940 | 78.4315 | 608.1 | 1178.7 | -570.6 |
| 39033027 | 42.1903 | 78.2981 | 554.7 | 1181.7 | -627.0 |
| 39033028 | 42.0562 | 78.4036 | 455.7 | 1168.0 | -712.3 |

Table A-8a. (Cont.)
 ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39034002 | 42.1807 | 78.5352 | 591.9 | 1155.2 | -563.3 |
| 39034008 | 42.0592 | 78.7389 | 684.9 | 1286.0 | -601.1 |
| 39034019 | 42.1361 | 78.5674 | 534.6 | 1131.7 | -597.1 |
| 39034023 | 42.1302 | 78.6270 | 662.9 | 1259.7 | -596.8 |
| 39035001 | 42.2398 | 78.9904 | 499.9 | 865.6 | -365.8 |
| 39035008 | 42.1543 | 78.8859 | 495.9 | 966.2 | -470.3 |
| 39035010 | 42.1149 | 78.7766 | 438.6 | 981.5 | -542.8 |
| 39035013 | 42.0316 | 78.7674 | 587.3 | 1234.1 | -646.8 |
| 39035015 | 42.0067 | 78.8879 | 611.4 | 1255.8 | -644.3 |
| 39036002 | 42.2135 | 79.2211 | 541.0 | 847.6 | -306.6 |
| 39036009 | 42.0929 | 79.2408 | 403.9 | 845.8 | -442.0 |
| 39036010 | 42.1102 | 79.0600 | 414.2 | 901.9 | -487.7 |
| 39036011 | 42.0192 | 79.1669 | 379.2 | 914.1 | -534.9 |
| 39036014 | 42.0144 | 79.0508 | 544.1 | 1143.0 | -598.9 |
| 39037004 | 42.1551 | 79.4611 | 477.0 | 811.1 | -334.1 |
| 39037007 | 42.0501 | 79.3849 | 467.0 | 921.4 | -454.5 |
| 39037009 | 42.0229 | 79.2548 | 463.6 | 964.1 | -500.5 |
| 39037010 | 42.0682 | 79.4156 | 479.1 | 891.2 | -412.1 |
| 39038001 | 42.0589 | 79.6803 | 512.7 | 872.0 | -359.4 |
| 39038003 | 42.1248 | 79.6894 | 479.1 | 791.0 | -311.8 |
| 39039001 | 42.1641 | 79.7574 | 443.5 | 703.8 | -260.3 |
| 39039006 | 42.1236 | 79.9233 | 326.1 | 590.7 | -264.6 |
| 39039007 | 42.1169 | 79.8257 | 429.5 | 716.0 | -286.5 |
| 39039008 | 42.1074 | 79.7637 | 422.5 | 731.5 | -309.1 |
| 39039009 | 42.0674 | 79.9971 | 428.5 | 701.3 | -272.8 |
| 39039017 | 42.0374 | 79.8942 | 432.8 | 740.7 | -307.8 |
| 39039018 | 42.2800 | 79.8995 | 184.1 | 320.0 | -135.9 |
| 39040001 | 42.1657 | 80.1148 | 177.1 | 385.6 | -208.5 |
| 39040002 | 42.1359 | 80.0784 | 182.9 | 403.9 | -221.0 |
| 39040014 | 42.0480 | 80.0781 | 377.3 | 640.1 | -262.7 |
| 39040018 | 42.0467 | 80.0245 | 378.0 | 643.4 | -265.5 |
| 39042001 | 41.9984 | 77.9879 | 635.8 | 1446.9 | -811.1 |
| 39042006 | 41.9745 | 77.9260 | 654.1 | 1606.3 | -952.2 |
| 39042020 | 41.9703 | 77.7502 | 661.1 | 1612.4 | -951.3 |
| 39042040 | 41.9062 | 77.7677 | 631.5 | 1609.6 | -978.1 |
| 39042060 | 41.8019 | 77.9546 | 621.5 | 1644.4 | -1022.9 |
| 39043001 | 41.9786 | 78.1196 | 609.3 | 1484.1 | -874.8 |
| 39043012 | 41.9244 | 78.1628 | 618.4 | 1576.1 | -957.7 |
| 39043019 | 41.8773 | 78.0972 | 547.7 | 1597.2 | -1049.4 |
| 39043021 | 41.8757 | 78.0132 | 605.0 | 1573.4 | -968.3 |
| 39043025 | 41.8484 | 78.0251 | 700.4 | 1595.3 | -894.9 |
| 39043030 | 41.8042 | 78.1164 | 675.7 | 1598.7 | -922.9 |
| 39043031 | 41.9131 | 78.2072 | 570.3 | 1496.9 | -926.6 |
| 39044001 | 41.9667 | 78.2801 | 474.0 | 1379.5 | -905.6 |
| 39044002 | 41.9467 | 78.2872 | 542.5 | 1464.0 | -921.4 |
| 39044003 | 41.8499 | 78.3390 | 453.5 | 1356.4 | -902.8 |
| 39045001 | 41.9710 | 78.5764 | 480.4 | 1239.0 | -758.6 |
| 39045002 | 41.7678 | 78.7220 | 470.9 | 1418.8 | -947.9 |
| 39046002 | 41.7990 | 78.9843 | 626.4 | 1446.3 | -819.9 |
| 39046003 | 41.9922 | 78.7732 | 634.6 | 1324.4 | -689.8 |
| 39046005 | 41.8957 | 78.8869 | 413.9 | 1149.1 | -735.2 |
| 39046006 | 41.8710 | 78.8431 | 488.6 | 1269.8 | -781.2 |
| 39046007 | 41.8649 | 78.7673 | 652.6 | 1467.9 | -815.3 |
| 39046009 | 41.8087 | 78.8949 | 409.0 | 1240.5 | -831.5 |
| 39046011 | 41.8111 | 78.7563 | 621.8 | 1505.1 | -883.3 |
| 39047001 | 41.9313 | 79.0284 | 587.0 | 1250.9 | -663.9 |
| 39047005 | 41.7926 | 79.1890 | 500.5 | 1285.6 | -785.2 |
| 39047006 | 41.7743 | 79.2152 | 513.9 | 1305.8 | -791.9 |
| 39048002 | 41.8752 | 79.4673 | 563.6 | 1143.6 | -580.0 |
| 39048003 | 41.8543 | 79.3100 | 368.2 | 1031.7 | -663.5 |
| 39048004 | 41.8553 | 79.2696 | 384.7 | 1060.1 | -675.4 |
| 39049007 | 41.9300 | 79.7375 | 467.3 | 917.4 | -450.2 |
| 39049009 | 41.7750 | 79.5804 | 531.9 | 1180.2 | -648.3 |

Table A-8a. (Cont.)
ONONDAGA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39050001 | 41.7788 | 79.9971 | 371.9 | 864.4 | -492.6 |
| 39050002 | 41.7701 | 79.9182 | 417.0 | 948.2 | -531.3 |
| 39051002 | 41.9875 | 80.1108 | 408.4 | 707.1 | -298.7 |
| 39051005 | 41.8949 | 80.0748 | 430.7 | 825.4 | -394.7 |
| 39068001 | 42.9022 | 79.7497 | 191.1 | 10.4 | 180.7 |
| 39068003 | 42.8515 | 79.7091 | 183.5 | 7.0 | 176.5 |

Table A-8b.
QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 1704153 | 42.2763 | 78.9206 | 558.7 | 1282.0 | -726.0 |
| 2005087 | 42.3235 | 75.9480 | 307.2 | 1783.4 | -1480.1 |
| 2805327 | 42.3682 | 78.9914 | 396.8 | 997.6 | -601.7 |
| 3605204 | 42.3964 | 78.8370 | 517.2 | 1138.7 | -622.4 |
| 3605313 | 42.4311 | 78.8663 | 478.5 | 1047.6 | -569.7 |
| 3705375 | 42.3717 | 78.8526 | 526.4 | 1168.6 | -643.1 |
| 4404592 | 42.4432 | 78.9717 | 363.6 | 897.0 | -534.3 |
| 4704238 | 42.1115 | 78.9775 | 550.2 | 1453.0 | -903.7 |
| 5004088 | 42.0238 | 78.9518 | 397.2 | 1421.3 | -1024.7 |
| 5604652 | 42.9465 | 76.7030 | 158.2 | 460.2 | -302.7 |
| 5704999 | 43.0260 | 76.5289 | 179.5 | 429.5 | -252.7 |
| 5805467 | 43.1007 | 76.5128 | 139.9 | 290.2 | -153.3 |
| 5805011 | 43.1459 | 76.5535 | 123.1 | 214.3 | -93.9 |
| 6004624 | 43.2525 | 76.4911 | 137.8 | 90.2 | 46.6 |
| 6104365 | 42.9705 | 76.5170 | 227.1 | 552.3 | -326.1 |
| 6606644 | 42.8589 | 76.6519 | 193.5 | 562.4 | -370.9 |
| 6905031 | 43.2015 | 76.6101 | 134.7 | 181.1 | -49.1 |
| 7004356 | 42.2767 | 79.5095 | 417.3 | 980.5 | -564.2 |
| 7204154 | 42.3421 | 79.1319 | 493.5 | 1085.7 | -596.2 |
| 7204200 | 42.3129 | 79.5249 | 471.2 | 1034.2 | -563.3 |
| 7304561 | 42.2345 | 79.3730 | 468.2 | 1100.9 | -636.4 |
| 7304437 | 42.1503 | 79.3379 | 539.8 | 1248.5 | -712.0 |
| 7404671 | 42.2398 | 79.4202 | 465.7 | 1096.4 | -631.5 |
| 7604152 | 42.1634 | 79.7362 | 453.8 | 1082.0 | -629.1 |
| 7604204 | 42.1606 | 79.6731 | 453.2 | 1100.9 | -648.6 |
| 7804948 | 42.3873 | 79.3905 | 353.9 | 841.2 | -488.3 |
| 8005267 | 42.4317 | 79.4196 | 187.8 | 624.2 | -437.4 |
| 8104000 | 42.2539 | 79.6673 | 407.5 | 967.4 | -560.8 |
| 8404156 | 42.3344 | 79.3905 | 406.9 | 950.7 | -544.7 |
| 9705344 | 42.3904 | 75.7734 | 470.9 | 1810.5 | -1340.5 |
| 10304240 | 42.8759 | 78.5030 | 280.4 | 441.4 | -161.8 |
| 10504527 | 42.9346 | 78.6118 | 253.3 | 357.2 | -104.9 |
| 10604758 | 42.9130 | 78.5067 | 253.9 | 387.7 | -134.7 |
| 11004866 | 42.6080 | 79.0276 | 211.8 | 550.8 | -339.9 |
| 11404725 | 42.6389 | 78.8869 | 301.1 | 636.1 | -335.9 |
| 11504157 | 42.8360 | 78.6178 | 251.2 | 435.9 | -185.6 |
| 11604231 | 42.6947 | 79.0126 | 199.0 | 443.5 | -245.4 |
| 11804094 | 42.7832 | 78.8535 | 179.2 | 372.8 | -194.5 |
| 12406722 | 42.7158 | 78.9422 | 209.4 | 432.5 | -223.7 |
| 12804183 | 42.8291 | 78.8498 | 178.9 | 334.7 | -156.4 |
| 12904545 | 42.9610 | 78.5073 | 243.2 | 323.1 | -80.8 |
| 13204184 | 42.5747 | 78.4686 | 473.7 | 975.1 | -502.0 |
| 13504576 | 42.5463 | 78.5588 | 536.1 | 1022.3 | -487.1 |
| 13705115 | 43.0906 | 78.3136 | 221.6 | 206.7 | 14.0 |
| 13704632 | 42.5663 | 78.5899 | 496.2 | 951.9 | -456.6 |
| 13805117 | 43.0403 | 78.3902 | 265.2 | 281.9 | -19.2 |
| 14104434 | 42.9163 | 78.2573 | 323.1 | 489.5 | -167.3 |
| 14104477 | 42.9168 | 78.0808 | 316.4 | 489.2 | -173.7 |
| 14204593 | 43.0429 | 78.0774 | 217.3 | 220.7 | -6.4 |
| 14304806 | 43.1154 | 78.0916 | 203.6 | 132.6 | 70.1 |
| 15204551 | 42.9292 | 77.9628 | 284.4 | 466.3 | -182.9 |
| 15305213 | 42.9588 | 78.3265 | 284.4 | 387.7 | -104.2 |
| 15704363 | 42.8618 | 77.8149 | 189.3 | 484.6 | -296.3 |
| 15803942 | 42.6853 | 77.6618 | 497.7 | 1075.9 | -579.1 |
| 15804567 | 42.9323 | 77.8841 | 243.5 | 437.4 | -197.8 |
| 15904188 | 42.7664 | 77.7551 | 349.9 | 792.2 | -443.2 |
| 15904189 | 42.8281 | 77.8010 | 223.4 | 571.8 | -349.3 |
| 16104451 | 42.9369 | 77.7130 | 209.7 | 419.1 | -210.3 |
| 16404217 | 42.7671 | 77.8823 | 176.5 | 582.2 | -406.6 |
| 16504457 | 42.8804 | 77.6226 | 286.2 | 580.9 | -295.7 |
| 16504458 | 42.9295 | 77.6349 | 230.4 | 462.1 | -232.6 |
| 16604053 | 42.7649 | 77.6594 | 421.2 | 882.1 | -464.2 |

Table A-8b. (Cont.)
 QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 16704630 | 42.6503 | 77.7560 | 182.6 | 784.3 | -606.2 |
| 16804069 | 42.8716 | 77.9322 | 269.4 | 536.1 | -267.6 |
| 17604085 | 42.8798 | 75.6867 | 477.9 | 848.3 | -371.2 |
| 17703970 | 42.8048 | 75.6506 | 472.1 | 929.3 | -458.7 |
| 17704185 | 42.8435 | 75.6150 | 456.0 | 825.7 | -370.3 |
| 18404724 | 43.1509 | 77.9753 | 196.9 | 112.8 | 83.2 |
| 18504063 | 43.1227 | 78.7982 | 183.8 | 106.1 | 76.8 |
| 18506669 | 43.0799 | 79.0068 | 177.4 | 119.5 | 54.9 |
| 18606667 | 43.2076 | 78.4651 | 167.6 | 38.1 | 125.9 |
| 19804054 | 42.8119 | 77.4733 | 432.2 | 863.8 | -432.5 |
| 20003999 | 42.7968 | 77.3351 | 361.5 | 811.4 | -450.8 |
| 20004107 | 42.7897 | 77.4095 | 405.7 | 882.4 | -477.6 |
| 20104395 | 42.9328 | 77.3590 | 221.9 | 479.5 | -258.5 |
| 20104409 | 42.8965 | 77.3097 | 240.2 | 556.3 | -317.0 |
| 20204947 | 42.8392 | 77.3679 | 321.0 | 703.2 | -383.1 |
| 20804099 | 42.9420 | 77.4037 | 242.0 | 483.1 | -242.0 |
| 21104760 | 42.9894 | 77.2799 | 182.6 | 362.1 | -180.4 |
| 21304871 | 43.0216 | 77.3354 | 172.2 | 323.7 | -154.2 |
| 21504607 | 42.8202 | 77.2135 | 320.6 | 737.0 | -417.0 |
| 21604449 | 42.8688 | 77.1966 | 276.5 | 649.8 | -373.7 |
| 21603929 | 42.7424 | 77.5237 | 319.4 | 808.3 | -490.1 |
| 22503866 | 42.6785 | 77.4432 | 531.0 | 1168.0 | -637.9 |
| 22505056 | 42.8227 | 77.0574 | 260.6 | 696.8 | -437.1 |
| 22604450 | 42.8863 | 77.4817 | 279.5 | 615.7 | -337.1 |
| 22604394 | 42.9102 | 77.5240 | 287.4 | 558.1 | -271.6 |
| 22704730 | 43.1803 | 78.1527 | 210.6 | 126.5 | 82.0 |
| 22704611 | 43.1909 | 78.2583 | 200.9 | 79.2 | 120.7 |
| 23204722 | 43.1858 | 78.4419 | 190.5 | 79.2 | 109.1 |
| 24504082 | 42.8759 | 76.8400 | 143.9 | 511.5 | -368.5 |
| 24804244 | 42.8251 | 76.8657 | 201.8 | 627.9 | -426.7 |
| 24804544 | 42.8689 | 76.9268 | 152.7 | 529.7 | -378.0 |
| 25005095 | 43.0349 | 76.9769 | 124.7 | 336.8 | -214.9 |
| 25304524 | 42.9402 | 76.8877 | 148.1 | 434.9 | -287.7 |
| 27203924 | 42.0630 | 77.4307 | 505.4 | 2186.9 | -1685.5 |
| 27304007 | 42.3654 | 76.5033 | 404.8 | 1738.9 | -1338.7 |
| 27404130 | 42.4421 | 76.5928 | 444.1 | 1629.2 | -1186.0 |
| 27905041 | 43.1458 | 76.7616 | 131.7 | 202.7 | -73.8 |
| 27905116 | 43.1520 | 77.0699 | 181.4 | 224.0 | -45.1 |
| 28005032 | 43.0592 | 76.8961 | 145.4 | 303.6 | -159.4 |
| 28006719 | 43.0292 | 76.9439 | 122.2 | 317.0 | -197.5 |
| 28104754 | 43.0824 | 77.2696 | 154.2 | 235.9 | -83.8 |
| 28105114 | 43.1116 | 77.0207 | 149.4 | 228.6 | -80.2 |
| 29104092 | 42.6173 | 78.0803 | 479.5 | 1026.0 | -550.5 |
| 29404385 | 42.6300 | 78.1539 | 539.8 | 1026.6 | -487.7 |
| 29604464 | 42.8384 | 78.0967 | 355.4 | 627.3 | -272.8 |
| 29904601 | 42.8106 | 78.1501 | 476.1 | 754.7 | -279.5 |
| 30104392 | 42.7477 | 78.1979 | 490.1 | 854.0 | -364.8 |
| 30404342 | 42.7411 | 78.3595 | 392.6 | 721.2 | -329.5 |
| 30406073 | 42.7552 | 78.0976 | 458.1 | 810.8 | -353.3 |
| 30604797 | 42.7494 | 77.0038 | 253.3 | 773.6 | -521.2 |
| 30604796 | 42.6838 | 77.0223 | 293.8 | 876.6 | -583.7 |
| 60010608 | 42.3177 | 75.6711 | 428.2 | 1953.8 | -1525.5 |
| 60006778 | 42.5189 | 76.0009 | 478.2 | 1557.5 | -1079.3 |
| 60012163 | 42.9369 | 76.3459 | 303.9 | 693.7 | -389.8 |
| 60011654 | 42.9167 | 76.2551 | 417.6 | 874.8 | -457.2 |
| 76000115 | 41.6716 | 75.3737 | 482.5 | 1777.0 | -1294.5 |
| 76100032 | 41.7501 | 79.6703 | 531.6 | 1618.2 | -1086.6 |
| 76100056 | 42.1840 | 79.8704 | 273.1 | 865.6 | -592.5 |
| 76100059 | 41.9822 | 79.8130 | 465.7 | 1254.3 | -788.5 |
| 76100080 | 41.6716 | 79.3436 | 525.8 | 1838.2 | -1312.5 |
| 76200069 | 42.0372 | 79.8002 | 474.9 | 1218.0 | -743.1 |
| 76200078 | 41.8820 | 78.6150 | 682.8 | 2034.2 | -1351.5 |
| 76200096 | 41.6642 | 79.3747 | 524.9 | 1824.2 | -1299.4 |

Table A-8b. (Cont.)
 QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 76400109 | 42.1428 | 80.0477 | 198.1 | 797.4 | -599.2 |
| 76400609 | 41.9539 | 79.2014 | 498.0 | 1510.0 | -1011.9 |
| 76404380 | 41.9375 | 79.2688 | 551.7 | 1556.2 | -1004.6 |
| 77107520 | 41.9870 | 78.9170 | 452.0 | 1539.2 | -1087.2 |
| 77300345 | 42.1576 | 79.8114 | 435.9 | 1061.9 | -626.1 |
| 77420429 | 41.8335 | 80.0188 | 411.8 | 1305.5 | -893.7 |
| 77430629 | 41.8278 | 78.5807 | 664.5 | 2115.3 | -1450.8 |
| 77420057 | 41.6896 | 77.5470 | 478.2 | 2688.3 | -2210.1 |
| 77520468 | 41.6562 | 79.8666 | 494.4 | 1606.3 | -1111.9 |
| 77520466 | 41.8160 | 79.6533 | 550.5 | 1568.8 | -1018.3 |
| 77520372 | 41.8714 | 79.7727 | 481.6 | 1342.3 | -860.8 |
| 77524704 | 41.9207 | 79.5535 | 468.2 | 1393.5 | -925.4 |
| 77620445 | 41.7787 | 80.0519 | 430.1 | 1345.4 | -915.3 |
| 77620500 | 41.8073 | 80.1028 | 357.8 | 1228.6 | -870.8 |
| 77820436 | 42.2169 | 79.8997 | 207.3 | 761.7 | -554.4 |
| 77820415 | 41.9204 | 79.9329 | 378.0 | 1193.0 | -815.0 |
| 37341005 | 42.1985 | 76.5382 | 328.3 | 2027.5 | -1699.3 |
| 37343011 | 42.1804 | 77.1937 | 523.6 | 2049.8 | -1526.1 |
| 37334019 | 42.3199 | 76.8639 | 367.6 | 1688.0 | -1320.4 |
| 37335017 | 42.4805 | 77.0778 | 380.4 | 1284.7 | -904.3 |
| 37325003 | 42.6848 | 76.6443 | 251.2 | 944.6 | -693.4 |
| 37316002 | 42.9568 | 76.5792 | 170.7 | 487.7 | -317.0 |
| 37317013 | 42.8778 | 76.7831 | 145.7 | 498.3 | -352.7 |
| 37317038 | 42.9121 | 76.9893 | 143.6 | 429.8 | -286.2 |
| 37318007 | 42.8435 | 77.1697 | 285.0 | 662.9 | -378.0 |
| 37318009 | 42.7990 | 77.2848 | 338.3 | 777.2 | -438.9 |
| 37319002 | 42.9433 | 77.2545 | 192.9 | 467.3 | -274.3 |
| 37319039 | 42.8380 | 77.4039 | 263.7 | 659.6 | -395.9 |
| 37320012 | 42.8380 | 77.7022 | 254.5 | 582.8 | -328.3 |
| 37307002 | 43.1552 | 75.7086 | 131.1 | 56.4 | 74.7 |
| 37308002 | 43.0510 | 75.8705 | 135.3 | 290.8 | -155.4 |
| 37309003 | 43.0025 | 76.1873 | 308.8 | 664.5 | -355.7 |
| 37310009 | 43.1656 | 76.3282 | 115.8 | 189.0 | -73.2 |
| 37311004 | 43.1211 | 76.5935 | 145.1 | 274.3 | -129.2 |
| 37312005 | 43.0883 | 76.8532 | 125.9 | 262.1 | -136.2 |
| 37313001 | 43.1702 | 77.6185 | 154.2 | 94.5 | 59.7 |
| 39006005 | 43.0877 | 77.8431 | 165.2 | 154.8 | 10.4 |
| 39008003 | 43.0310 | 78.2774 | 269.7 | 295.7 | -25.9 |
| 39010003 | 43.0222 | 78.8266 | 175.3 | 224.6 | -49.4 |
| 39011001 | 43.1158 | 79.1936 | 157.6 | 72.2 | 85.3 |
| 39012023 | 42.8457 | 77.9697 | 364.2 | 647.4 | -283.2 |
| 39012024 | 42.8182 | 77.9884 | 338.3 | 654.1 | -315.8 |
| 39012037 | 42.7602 | 77.9950 | 405.4 | 791.3 | -385.9 |
| 39013003 | 42.9482 | 78.0437 | 283.5 | 435.9 | -152.4 |
| 39013009 | 42.8958 | 78.2000 | 323.1 | 531.0 | -207.9 |
| 39013019 | 42.8851 | 78.0766 | 347.5 | 578.2 | -230.7 |
| 39013037 | 42.8906 | 78.0341 | 294.1 | 538.0 | -243.8 |
| 39013042 | 42.8671 | 78.2101 | 426.7 | 620.9 | -194.2 |
| 39014003 | 42.9842 | 78.4382 | 256.0 | 321.0 | -64.9 |
| 39014035 | 42.9250 | 78.3886 | 272.8 | 393.2 | -120.4 |
| 39014042 | 42.8182 | 78.4888 | 346.3 | 569.4 | -223.1 |
| 39014048 | 42.8473 | 78.3693 | 378.0 | 589.8 | -211.8 |
| 39014052 | 42.8402 | 78.4586 | 286.2 | 496.5 | -210.3 |
| 39014077 | 42.7892 | 78.3961 | 350.8 | 633.1 | -282.2 |
| 39014078 | 42.8583 | 78.2957 | 370.3 | 570.6 | -200.3 |
| 39014097 | 42.7591 | 78.4368 | 385.6 | 687.3 | -301.8 |
| 39014098 | 42.7651 | 78.2814 | 451.1 | 734.3 | -283.2 |
| 39014099 | 42.8976 | 78.4620 | 275.8 | 413.3 | -137.5 |
| 39015002 | 42.9732 | 78.6265 | 221.0 | 292.0 | -71.0 |
| 39015004 | 42.9556 | 78.9140 | 245.4 | 317.3 | -71.9 |
| 39015022 | 42.9331 | 78.6768 | 224.0 | 321.3 | -97.2 |
| 39015038 | 42.8936 | 78.6453 | 208.5 | 340.2 | -131.7 |
| 39015041 | 42.8879 | 78.5949 | 221.0 | 369.4 | -148.4 |

Table A-8b. (Cont.)
 QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39015050 | 42.9544 | 78.5697 | 253.0 | 323.4 | -70.4 |
| 39015071 | 42.8374 | 78.7412 | 198.1 | 358.1 | -160.0 |
| 39015081 | 42.8174 | 78.6779 | 239.3 | 445.0 | -205.7 |
| 39015082 | 42.8045 | 78.6356 | 288.0 | 501.4 | -213.4 |
| 39015092 | 42.7925 | 78.5595 | 262.1 | 496.5 | -234.4 |
| 39015103 | 42.7714 | 78.7276 | 269.7 | 495.0 | -225.2 |
| 39016011 | 42.9775 | 78.8198 | 181.4 | 224.6 | -43.3 |
| 39016016 | 42.9219 | 78.7916 | 201.2 | 306.6 | -105.5 |
| 39016017 | 42.8848 | 78.7560 | 185.3 | 313.3 | -128.0 |
| 39016027 | 42.8106 | 78.7929 | 193.5 | 371.2 | -177.7 |
| 39016050 | 42.9694 | 78.9482 | 178.3 | 213.7 | -35.4 |
| 39016051 | 42.9144 | 78.9532 | 180.7 | 279.5 | -98.8 |
| 39018003 | 42.6853 | 78.1139 | 426.7 | 862.9 | -436.2 |
| 39018015 | 42.6354 | 78.0431 | 461.8 | 971.1 | -509.3 |
| 39018018 | 42.5011 | 78.2295 | 599.5 | 1284.7 | -685.2 |
| 39018020 | 42.5704 | 78.0789 | 486.2 | 1086.3 | -600.2 |
| 39019017 | 42.5477 | 78.4698 | 441.0 | 993.0 | -552.0 |
| 39019025 | 42.7009 | 78.4566 | 298.4 | 657.5 | -359.1 |
| 39019029 | 42.6513 | 78.3221 | 530.4 | 976.9 | -446.5 |
| 39019030 | 42.6228 | 78.4260 | 460.2 | 916.8 | -456.6 |
| 39019033 | 42.5869 | 78.3835 | 507.5 | 999.1 | -491.6 |
| 39019037 | 42.5332 | 78.3389 | 566.9 | 1179.6 | -612.6 |
| 39019038 | 42.5776 | 78.2929 | 554.7 | 1132.0 | -577.3 |
| 39019042 | 42.5306 | 78.4236 | 452.0 | 1025.7 | -573.6 |
| 39020001 | 42.7420 | 78.6416 | 286.5 | 568.1 | -281.6 |
| 39020032 | 42.7135 | 78.5418 | 385.6 | 723.9 | -338.3 |
| 39020040 | 42.6955 | 78.7059 | 359.7 | 706.5 | -346.9 |
| 39020050 | 42.6351 | 78.7321 | 317.0 | 682.8 | -365.8 |
| 39020081 | 42.6134 | 78.5981 | 503.2 | 897.0 | -393.8 |
| 39020089 | 42.6783 | 78.5261 | 454.5 | 810.2 | -355.7 |
| 39020092 | 42.6019 | 78.7101 | 326.7 | 733.7 | -406.9 |
| 39020098 | 42.5658 | 78.6916 | 422.1 | 885.4 | -463.3 |
| 39020105 | 42.5058 | 78.7262 | 417.3 | 901.9 | -484.6 |
| 39020108 | 42.5220 | 78.5859 | 432.8 | 937.9 | -505.1 |
| 39021003 | 42.7484 | 78.8014 | 234.7 | 480.1 | -245.4 |
| 39021018 | 42.7134 | 78.8162 | 245.4 | 513.0 | -267.6 |
| 39021020 | 42.7108 | 78.8857 | 240.8 | 479.8 | -239.0 |
| 39021026 | 42.7382 | 78.7500 | 256.3 | 522.7 | -266.4 |
| 39021037 | 42.6359 | 78.9489 | 228.6 | 554.4 | -325.8 |
| 39021052 | 42.6754 | 78.8037 | 344.4 | 644.3 | -299.9 |
| 39021055 | 42.6455 | 78.7746 | 425.2 | 786.4 | -361.2 |
| 39021062 | 42.6165 | 78.8022 | 374.9 | 768.7 | -393.8 |
| 39021079 | 42.5800 | 78.8549 | 399.3 | 820.8 | -421.5 |
| 39021092 | 42.5614 | 78.9260 | 292.6 | 709.3 | -416.7 |
| 39021100 | 42.5422 | 78.8393 | 407.2 | 841.9 | -434.6 |
| 39021112 | 42.5912 | 78.7541 | 475.5 | 880.9 | -405.4 |
| 39021122 | 42.5154 | 78.9695 | 248.4 | 698.6 | -450.2 |
| 39021133 | 42.5184 | 78.7835 | 438.9 | 911.4 | -472.4 |
| 39022002 | 42.6415 | 79.0425 | 200.6 | 495.3 | -294.7 |
| 39022005 | 42.6135 | 79.1057 | 181.4 | 507.2 | -325.8 |
| 39022021 | 42.5740 | 79.0253 | 232.3 | 606.9 | -374.6 |
| 39022022 | 42.5743 | 79.1213 | 178.3 | 536.4 | -358.1 |
| 39022028 | 42.5381 | 79.2306 | 175.3 | 551.7 | -376.4 |
| 39022052 | 42.5450 | 79.1715 | 179.8 | 557.5 | -377.6 |
| 39022066 | 42.5288 | 79.0915 | 249.9 | 647.7 | -397.8 |
| 39022083 | 42.5192 | 79.0242 | 246.9 | 680.3 | -433.4 |
| 39024024 | 42.3936 | 78.0141 | 610.5 | 1503.3 | -892.8 |
| 39024039 | 42.2848 | 78.0074 | 595.0 | 1659.6 | -1064.7 |
| 39024045 | 42.4531 | 78.1743 | 509.6 | 1252.7 | -743.1 |
| 39025001 | 42.4682 | 78.4621 | 463.3 | 1105.5 | -642.2 |
| 39025003 | 42.4046 | 78.4300 | 609.0 | 1342.9 | -734.0 |
| 39025005 | 42.4488 | 78.2812 | 587.3 | 1321.9 | -734.6 |
| 39026002 | 42.4861 | 78.6455 | 403.9 | 950.7 | -546.8 |

Table A-8b. (Cont.)
 QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39026004 | 42.4232 | 78.6144 | 440.4 | 1062.5 | -622.1 |
| 39026005 | 42.4443 | 78.6577 | 490.7 | 1092.7 | -602.0 |
| 39026006 | 42.3717 | 78.6919 | 521.2 | 1177.4 | -656.2 |
| 39027002 | 42.4967 | 78.9115 | 274.3 | 769.9 | -495.6 |
| 39027003 | 42.4996 | 78.8560 | 337.4 | 826.9 | -489.5 |
| 39027009 | 42.4916 | 78.8047 | 405.4 | 910.1 | -504.7 |
| 39027053 | 42.4073 | 78.9059 | 417.6 | 1012.5 | -595.0 |
| 39027065 | 42.3939 | 78.7571 | 423.7 | 1057.0 | -633.4 |
| 39027066 | 42.3451 | 78.9115 | 555.0 | 1200.3 | -645.3 |
| 39028003 | 42.4984 | 79.2137 | 227.1 | 630.9 | -403.9 |
| 39028018 | 42.4583 | 79.2489 | 298.7 | 742.8 | -444.1 |
| 39028030 | 42.4953 | 79.0844 | 286.5 | 728.8 | -442.3 |
| 39028034 | 42.4723 | 79.1350 | 356.6 | 822.0 | -465.4 |
| 39028053 | 42.4249 | 79.2061 | 344.4 | 846.1 | -501.7 |
| 39028055 | 42.3859 | 79.2292 | 541.0 | 1069.8 | -528.8 |
| 39028062 | 42.4523 | 79.0718 | 487.7 | 1043.3 | -555.7 |
| 39028063 | 42.4130 | 79.1256 | 524.3 | 1040.6 | -516.3 |
| 39028067 | 42.3789 | 79.0906 | 405.4 | 952.5 | -547.1 |
| 39028071 | 42.2999 | 79.1863 | 621.8 | 1215.5 | -593.8 |
| 39028073 | 42.2802 | 79.2056 | 526.1 | 1175.0 | -648.9 |
| 39028081 | 42.4734 | 79.0272 | 352.0 | 846.4 | -494.4 |
| 39028103 | 42.2813 | 79.0260 | 416.7 | 1101.5 | -684.9 |
| 39029001 | 42.4863 | 79.3387 | 176.8 | 581.6 | -404.8 |
| 39029006 | 42.5156 | 79.2738 | 185.9 | 579.7 | -393.8 |
| 39029029 | 42.4482 | 79.2757 | 271.3 | 708.4 | -437.1 |
| 39029036 | 42.3906 | 79.4744 | 201.5 | 670.9 | -469.4 |
| 39029044 | 42.4018 | 79.3281 | 372.2 | 854.7 | -482.5 |
| 39029059 | 42.4071 | 79.2651 | 442.0 | 929.3 | -487.4 |
| 39030002 | 42.3556 | 79.5594 | 189.9 | 680.0 | -490.1 |
| 39030004 | 42.3372 | 79.5846 | 201.2 | 695.6 | -494.4 |
| 39032020 | 42.1433 | 78.0902 | 584.3 | 1834.3 | -1250.0 |
| 39032023 | 42.1195 | 78.1459 | 631.5 | 1877.0 | -1245.4 |
| 39035001 | 42.2398 | 78.9904 | 499.9 | 1248.2 | -748.3 |
| 39035010 | 42.1149 | 78.7766 | 438.6 | 1406.7 | -968.0 |
| 39036002 | 42.2135 | 79.2211 | 541.0 | 1244.8 | -703.8 |
| 39036010 | 42.1102 | 79.0600 | 414.2 | 1298.4 | -884.2 |
| 39036011 | 42.0192 | 79.1669 | 379.2 | 1298.4 | -919.3 |
| 39037003 | 42.1969 | 79.2507 | 408.4 | 1121.1 | -712.6 |
| 39037004 | 42.1551 | 79.4611 | 477.0 | 1179.6 | -702.6 |
| 39037010 | 42.0682 | 79.4156 | 479.1 | 1298.4 | -819.3 |
| 39038001 | 42.0589 | 79.6803 | 512.7 | 1240.2 | -727.6 |
| 39039002 | 42.2271 | 79.8400 | 198.1 | 762.0 | -563.9 |
| 39039008 | 42.1074 | 79.7637 | 422.5 | 1115.0 | -692.5 |
| 39039018 | 42.2800 | 79.8995 | 184.1 | 682.1 | -498.0 |
| 39040001 | 42.1657 | 80.1148 | 177.1 | 759.9 | -582.8 |
| 39040002 | 42.1359 | 80.0784 | 182.9 | 792.5 | -609.6 |
| 39040018 | 42.0467 | 80.0245 | 378.0 | 1052.5 | -674.5 |
| 39044003 | 41.8499 | 78.3390 | 453.5 | 2000.7 | -1547.2 |
| 39045001 | 41.9710 | 78.5764 | 480.4 | 1737.4 | -1257.0 |
| 39045002 | 41.7678 | 78.7220 | 470.9 | 1928.2 | -1457.2 |
| 39046011 | 41.8111 | 78.7563 | 621.8 | 2001.6 | -1379.8 |
| 39047001 | 41.9313 | 79.0284 | 587.0 | 1690.1 | -1103.1 |
| 39048001 | 41.9952 | 79.3142 | 414.5 | 1345.1 | -930.6 |
| 39048002 | 41.8752 | 79.4673 | 563.6 | 1565.8 | -1002.2 |
| 39048003 | 41.8543 | 79.3100 | 368.2 | 1446.3 | -1078.1 |
| 39048004 | 41.8553 | 79.2696 | 384.7 | 1489.3 | -1104.6 |
| 39049001 | 41.9662 | 79.7315 | 506.0 | 1338.1 | -832.1 |
| 39049007 | 41.9300 | 79.7375 | 467.3 | 1329.5 | -862.3 |
| 39049009 | 41.7750 | 79.5804 | 531.9 | 1617.0 | -1085.1 |
| 39049010 | 41.9954 | 79.7155 | 512.7 | 1356.4 | -843.7 |
| 39050001 | 41.7788 | 79.9971 | 371.9 | 1308.2 | -936.3 |
| 39051001 | 41.9875 | 80.1108 | 408.4 | 1119.2 | -710.8 |
| 39051002 | 41.9722 | 80.0785 | 442.0 | 1172.9 | -730.9 |

Table A-8b. (Cont.)
 QUEENSTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39051005 | 41.8949 | 80.0748 | 430.7 | 1268.0 | -837.3 |
| 39061002 | 43.1287 | 79.3178 | 96.0 | 6.4 | 89.6 |
| 39063001 | 43.2301 | 79.9919 | 171.0 | 49.4 | 121.6 |
| 39064001 | 43.1015 | 80.0207 | 215.5 | 170.7 | 44.8 |
| 39066001 | 42.9885 | 79.0641 | 182.9 | 187.1 | -4.3 |
| 39066002 | 42.9882 | 79.1737 | 186.8 | 190.2 | -3.4 |
| 39066003 | 42.9243 | 79.1008 | 184.4 | 235.9 | -51.5 |
| 39066006 | 42.8513 | 79.1010 | 175.3 | 278.9 | -103.6 |
| 39067002 | 42.8726 | 79.3612 | 179.8 | 251.5 | -71.6 |
| 39068001 | 42.9022 | 79.7497 | 191.1 | 258.2 | -67.1 |
| 39068002 | 42.8533 | 79.5107 | 178.9 | 264.3 | -85.3 |
| 39068003 | 42.8515 | 79.7091 | 183.5 | 261.8 | -78.3 |
| 39069002 | 42.9016 | 79.9494 | 209.1 | 265.2 | -56.1 |
| 39070002 | 42.8160 | 80.2054 | 224.3 | 366.7 | -142.3 |

Table A-8c
TRENTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 1403956 | 42.4531 | 78.1743 | 509.6 | 1862.3 | -1353.6 |
| 2005087 | 42.3235 | 75.9480 | 307.2 | 2298.2 | -1994.9 |
| 5604715 | 42.9217 | 76.6716 | 157.3 | 991.2 | -834.8 |
| 5704999 | 43.0260 | 76.5289 | 179.5 | 947.9 | -771.1 |
| 5805467 | 43.1007 | 76.5128 | 139.9 | 798.9 | -662.0 |
| 5805011 | 43.1459 | 76.5535 | 123.1 | 709.0 | -588.6 |
| 6004624 | 43.2525 | 76.4911 | 137.8 | 585.8 | -449.0 |
| 6905031 | 43.2015 | 76.6101 | 134.7 | 686.7 | -554.7 |
| 7304561 | 42.2345 | 79.3730 | 468.2 | 1664.2 | -1199.7 |
| 7304437 | 42.1503 | 79.3379 | 539.8 | 1819.0 | -1282.6 |
| 8204460 | 42.5212 | 79.2623 | 188.1 | 1117.1 | -929.9 |
| 9704714 | 42.5185 | 76.0009 | 480.1 | 2101.6 | -1623.4 |
| 9804455 | 42.3905 | 75.0445 | 456.0 | 1866.9 | -1414.3 |
| 9904214 | 42.1826 | 74.9218 | 544.4 | 2510.6 | -1969.3 |
| 9904379 | 42.2736 | 74.6278 | 563.3 | 2063.5 | -1504.2 |
| 10004364 | 42.3169 | 75.2341 | 508.4 | 2229.9 | -1724.6 |
| 12004663 | 42.7232 | 78.9451 | 189.9 | 985.7 | -796.7 |
| 12306668 | 42.8033 | 78.8444 | 180.7 | 737.0 | -559.3 |
| 13304440 | 42.5559 | 78.5063 | 430.7 | 1525.2 | -1095.5 |
| 13705115 | 43.0906 | 78.3136 | 221.6 | 749.8 | -529.1 |
| 13805117 | 43.0403 | 78.3902 | 265.2 | 826.9 | -564.2 |
| 14204593 | 43.0429 | 78.0774 | 217.3 | 749.8 | -535.5 |
| 14304806 | 43.1154 | 78.0916 | 203.6 | 656.8 | -454.2 |
| 15503993 | 42.8807 | 74.9165 | 476.4 | 912.0 | -436.5 |
| 15804567 | 42.9323 | 77.8841 | 243.5 | 975.1 | -735.5 |
| 16704630 | 42.6503 | 77.7560 | 182.6 | 1488.3 | -1310.3 |
| 16804069 | 42.8716 | 77.9322 | 269.4 | 1089.1 | -820.5 |
| 17204552 | 42.8353 | 77.9371 | 305.1 | 1175.3 | -874.8 |
| 17703970 | 42.8048 | 75.6506 | 472.1 | 1392.3 | -921.7 |
| 18506669 | 43.0799 | 79.0068 | 177.4 | 639.5 | -465.1 |
| 18604719 | 43.3360 | 78.5128 | 102.4 | 381.0 | -280.7 |
| 18606667 | 43.2076 | 78.4651 | 167.6 | 562.1 | -398.1 |
| 18703928 | 42.8680 | 75.4266 | 402.9 | 1041.8 | -639.8 |
| 21104760 | 42.9894 | 77.2799 | 182.6 | 900.7 | -719.0 |
| 21304871 | 43.0216 | 77.3354 | 172.2 | 857.4 | -687.9 |
| 21506395 | 42.8126 | 77.2029 | 332.2 | 1305.8 | -976.6 |
| 22704730 | 43.1803 | 78.1527 | 210.6 | 659.3 | -450.8 |
| 22704611 | 43.1909 | 78.2583 | 200.9 | 611.7 | -411.8 |
| 22804873 | 43.3627 | 78.3051 | 85.6 | 345.9 | -261.5 |
| 22804476 | 43.3235 | 78.2055 | 110.0 | 405.7 | -296.3 |
| 22904912 | 43.2823 | 78.1742 | 132.9 | 476.1 | -343.8 |
| 23004994 | 43.4017 | 77.9610 | 99.1 | 384.4 | -288.0 |
| 23105069 | 43.3191 | 78.0825 | 110.3 | 421.2 | -313.3 |
| 23205008 | 43.2442 | 78.3293 | 153.3 | 531.9 | -379.2 |
| 23204722 | 43.1858 | 78.4419 | 190.5 | 613.6 | -425.2 |
| 23305096 | 43.1621 | 78.3733 | 192.3 | 646.8 | -454.8 |
| 23404752 | 43.3067 | 78.4530 | 107.6 | 421.5 | -314.9 |
| 23404753 | 43.3485 | 78.4448 | 100.0 | 365.2 | -268.2 |
| 23504208 | 43.2620 | 76.1033 | 153.3 | 451.7 | -299.3 |
| 23504764 | 43.3259 | 78.3320 | 102.1 | 399.3 | -298.1 |
| 23604209 | 43.3479 | 76.3190 | 141.7 | 491.9 | -351.1 |
| 23605012 | 43.3693 | 76.6017 | 96.9 | 435.9 | -341.4 |
| 23804357 | 43.4440 | 75.8772 | 227.1 | 256.3 | -33.8 |
| 23904547 | 42.5306 | 74.8834 | 385.3 | 1322.8 | -938.2 |
| 24604203 | 42.8762 | 76.8586 | 165.2 | 1083.0 | -920.2 |
| 25005095 | 43.0349 | 76.9769 | 124.7 | 870.5 | -748.6 |
| 27203924 | 42.0630 | 77.4307 | 505.4 | 2948.9 | -2447.5 |
| 27303973 | 42.3702 | 76.5063 | 394.7 | 2347.0 | -1961.4 |
| 27404130 | 42.4421 | 76.5928 | 444.1 | 2225.0 | -1781.9 |
| 27504467 | 42.3844 | 76.5409 | 318.2 | 2239.1 | -1921.8 |
| 27905041 | 43.1458 | 76.7616 | 131.7 | 715.4 | -586.4 |
| 27905116 | 43.1520 | 77.0699 | 181.4 | 741.3 | -562.4 |

Table A-8c. (Cont.)
TRENTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 28005032 | 43.0592 | 76.8961 | 145.4 | 837.0 | -692.8 |
| 28006719 | 43.0292 | 76.9439 | 122.2 | 849.2 | -729.7 |
| 28104754 | 43.0824 | 77.2696 | 154.2 | 762.0 | -609.9 |
| 28105114 | 43.1116 | 77.0207 | 149.5 | 757.4 | -609.0 |
| 29104092 | 42.6173 | 78.0803 | 479.5 | 1618.5 | -1143.0 |
| 29604447 | 42.8027 | 78.1501 | 475.2 | 1336.5 | -862.3 |
| 29604464 | 42.8384 | 78.0967 | 355.4 | 1179.6 | -825.1 |
| 30104392 | 42.7477 | 78.1979 | 490.1 | 1439.6 | -950.4 |
| 30406073 | 42.7552 | 78.0976 | 458.1 | 1382.3 | -924.8 |
| 60010227 | 42.2978 | 74.6251 | 613.3 | 2020.2 | -1407.0 |
| 60010335 | 42.2083 | 76.6250 | 432.2 | 2843.5 | -2411.3 |
| 60012163 | 42.9369 | 76.3459 | 303.9 | 1206.4 | -902.5 |
| 82901160 | 42.6933 | 75.3618 | 418.5 | 1346.3 | -927.8 |
| 82400698 | 43.1552 | 75.7086 | 131.1 | 459.3 | -328.3 |
| 77300345 | 42.1576 | 79.8114 | 435.9 | 1599.3 | -1163.4 |
| 77420429 | 41.8335 | 80.0188 | 411.8 | 1891.3 | -1479.5 |
| 77420057 | 41.6896 | 77.5470 | 478.2 | 3511.3 | -3033.1 |
| 77633511 | 41.8674 | 78.6145 | 684.0 | 2781.3 | -2097.3 |
| 37353001 | 43.0151 | 75.0353 | 123.4 | 144.8 | -21.3 |
| 37353002 | 43.2058 | 75.1975 | 268.2 | 97.5 | 170.7 |
| 37353003 | 43.1043 | 75.2459 | 130.5 | 173.7 | -43.3 |
| 37354001 | 43.2067 | 75.4479 | 135.6 | 190.5 | -54.9 |
| 37354003 | 43.1187 | 75.4797 | 207.3 | 421.5 | -214.3 |
| 37354004 | 43.1080 | 75.2866 | 146.3 | 243.8 | -97.5 |
| 37359002 | 43.3029 | 75.2070 | 289.6 | 59.4 | 230.1 |
| 37360001 | 43.2523 | 75.4459 | 156.1 | 153.9 | 2.1 |
| 37360003 | 43.2988 | 75.4498 | 173.7 | 157.0 | 16.8 |
| 37360005 | 43.3374 | 75.3416 | 249.9 | 131.1 | 118.9 |
| 37341005 | 42.1985 | 76.5382 | 328.3 | 2713.3 | -2385.1 |
| 37316002 | 42.9568 | 76.5792 | 170.7 | 1005.8 | -835.2 |
| 37317001 | 42.9540 | 76.7620 | 120.4 | 914.4 | -794.0 |
| 37317015 | 42.9800 | 76.9339 | 153.0 | 923.5 | -770.5 |
| 37307001 | 43.2291 | 75.5143 | 129.5 | 221.9 | -92.4 |
| 37307003 | 43.1365 | 75.5627 | 158.5 | 426.7 | -268.2 |
| 37307004 | 43.0809 | 75.5393 | 187.5 | 487.7 | -300.2 |
| 37308002 | 43.0510 | 75.8705 | 135.3 | 746.8 | -611.4 |
| 37309003 | 43.0025 | 76.1873 | 308.8 | 1136.9 | -828.1 |
| 37310009 | 43.1656 | 76.3282 | 115.8 | 685.8 | -570.0 |
| 37310022 | 43.1274 | 76.3322 | 131.1 | 732.7 | -601.7 |
| 37310028 | 43.0757 | 76.3281 | 137.5 | 821.7 | -684.3 |
| 37310029 | 43.0189 | 76.3040 | 262.4 | 1021.1 | -758.6 |
| 37310030 | 43.0729 | 76.4599 | 129.5 | 798.0 | -668.4 |
| 37311004 | 43.1211 | 76.5935 | 145.1 | 787.0 | -641.9 |
| 37312001 | 43.2228 | 76.8134 | 96.6 | 594.4 | -497.7 |
| 37312002 | 43.1050 | 76.8345 | 140.5 | 774.2 | -633.7 |
| 37303001 | 43.4340 | 75.5907 | 408.4 | 329.8 | 78.6 |
| 37303003 | 43.4174 | 75.6816 | 342.0 | 355.1 | -13.1 |
| 37303010 | 43.3383 | 75.7413 | 156.7 | 256.9 | -100.3 |
| 37304001 | 43.4813 | 75.7583 | 355.1 | 317.0 | 38.1 |
| 37304002 | 43.4040 | 75.7738 | 278.3 | 354.8 | -76.5 |
| 37304008 | 43.3712 | 75.7983 | 182.6 | 297.2 | -114.6 |
| 37305001 | 43.4636 | 76.2300 | 106.7 | 313.0 | -206.3 |
| 37305003 | 43.3813 | 76.0931 | 158.5 | 440.4 | -281.9 |
| 37305004 | 43.2983 | 76.1525 | 128.0 | 490.4 | -362.4 |
| 37305005 | 43.2807 | 76.0038 | 152.4 | 467.9 | -315.5 |
| 37306001 | 43.4680 | 76.4955 | 91.4 | 364.5 | -273.1 |
| 37306002 | 43.4340 | 76.4652 | 117.3 | 401.1 | -283.8 |
| 37306005 | 43.3676 | 76.4265 | 97.5 | 417.6 | -320.0 |
| 37306014 | 43.3152 | 76.3827 | 115.8 | 426.7 | -310.9 |
| 37306018 | 43.2879 | 76.4655 | 125.0 | 518.2 | -393.2 |
| 39004001 | 43.2681 | 78.7376 | 106.7 | 365.8 | -259.1 |
| 39008001 | 43.2445 | 78.2575 | 157.9 | 552.9 | -395.0 |
| 39008002 | 42.9342 | 78.2725 | 228.6 | 838.2 | -609.6 |

Table A-8c. (Cont.)
TRENTON Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39008003 | 43.0310 | 78.2774 | 269.7 | 838.2 | -568.5 |
| 39009001 | 43.1990 | 78.5720 | 158.5 | 548.6 | -390.1 |
| 39011001 | 43.1158 | 79.1936 | 157.6 | 580.6 | -423.1 |
| 39012006 | 42.8807 | 77.9792 | 334.7 | 1128.4 | -793.7 |
| 39015081 | 42.8174 | 78.6779 | 239.3 | 944.9 | -705.6 |
| 39016014 | 42.9276 | 78.8326 | 207.3 | 792.5 | -585.2 |
| 39016015 | 42.8663 | 78.8028 | 178.3 | 902.2 | -723.9 |
| 39016051 | 42.9144 | 78.9532 | 180.7 | 818.4 | -637.6 |
| 39019042 | 42.5306 | 78.4236 | 452.0 | 1628.2 | -1176.2 |
| 39021117 | 42.5463 | 78.9959 | 198.1 | 1168.9 | -970.8 |
| 39022023 | 42.5737 | 79.0967 | 225.6 | 1143.0 | -917.4 |
| 39028106 | 42.4601 | 79.0403 | 397.5 | 1456.3 | -1058.9 |
| 39028108 | 42.3411 | 79.1320 | 493.5 | 1654.8 | -1161.3 |
| 39029003 | 42.4816 | 79.3088 | 200.9 | 1222.2 | -1021.4 |
| 39037010 | 42.0682 | 79.4156 | 479.1 | 1866.6 | -1387.4 |
| 39039018 | 42.2800 | 79.8995 | 184.1 | 1204.0 | -1019.9 |
| 39040002 | 42.1359 | 80.0784 | 182.9 | 1295.4 | -1112.5 |
| 39040018 | 42.0467 | 80.0245 | 378.0 | 1577.6 | -1199.7 |
| 39051005 | 41.8949 | 80.0748 | 430.7 | 1790.7 | -1360.0 |
| 39061001 | 43.1594 | 79.2828 | 90.5 | 459.0 | -368.5 |
| 39061001 | 43.1287 | 79.3178 | 96.0 | 463.0 | -367.0 |
| 39063001 | 43.2301 | 79.9919 | 171.0 | 414.5 | -243.5 |
| 39064001 | 43.1015 | 80.0207 | 215.5 | 602.0 | -386.5 |
| 39066001 | 42.9885 | 79.0641 | 182.9 | 705.0 | -522.1 |
| 39066002 | 42.9882 | 79.1737 | 186.8 | 711.7 | -524.9 |
| 39066004 | 42.9021 | 79.1554 | 182.9 | 768.1 | -585.2 |
| 39066006 | 42.8513 | 79.1010 | 175.3 | 811.7 | -636.4 |
| 39067001 | 42.9167 | 79.3819 | 177.4 | 743.7 | -566.3 |
| 39068001 | 42.9022 | 79.7497 | 191.1 | 746.8 | -555.7 |

Table A-8d.
THERESA Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 1403956 | 42.4531 | 78.1743 | 508.7 | 2200.7 | -1691.1 |
| 1504248 | 42.4705 | 78.1603 | 475.5 | 2138.2 | -1662.7 |
| 2005087 | 42.3235 | 75.9480 | 303.3 | 2782.8 | -2479.5 |
| 5604715 | 42.9217 | 76.6716 | 156.4 | 1372.2 | -1215.8 |
| 5705000 | 43.1051 | 76.5528 | 130.1 | 1104.9 | -974.8 |
| 6004624 | 43.2525 | 76.4911 | 136.9 | 898.6 | -761.7 |
| 7204154 | 42.3421 | 79.1319 | 489.5 | 1905.0 | -1415.5 |
| 7304437 | 42.1503 | 79.3379 | 536.4 | 2087.9 | -1551.4 |
| 7304561 | 42.2345 | 79.3730 | 464.5 | 1912.3 | -1447.8 |
| 8204460 | 42.5212 | 79.2623 | 187.1 | 1344.2 | -1157.0 |
| 9704714 | 42.5185 | 76.0009 | 478.2 | 2450.6 | -1972.4 |
| 9904214 | 42.1826 | 74.9218 | 541.3 | 2856.6 | -2315.3 |
| 9904379 | 42.2736 | 74.6278 | 559.3 | 2380.5 | -1821.2 |
| 12306668 | 42.8033 | 78.8444 | 177.7 | 964.7 | -787.0 |
| 13304440 | 42.5559 | 78.5063 | 429.8 | 1793.4 | -1363.7 |
| 13705115 | 43.0906 | 78.3136 | 220.7 | 1011.9 | -791.3 |
| 13805117 | 43.0403 | 78.3902 | 262.7 | 1083.0 | -820.2 |
| 14204593 | 43.0429 | 78.0774 | 214.3 | 1072.9 | -858.6 |
| 15403904 | 42.3336 | 74.2307 | 587.7 | 1981.2 | -1393.5 |
| 15404034 | 42.9093 | 74.8352 | 484.6 | 762.6 | -278.0 |
| 15503993 | 42.8807 | 74.9165 | 475.5 | 1066.8 | -591.3 |
| 15804567 | 42.9323 | 77.8841 | 239.6 | 1293.6 | -1054.0 |
| 16704630 | 42.6503 | 77.7560 | 178.0 | 1713.9 | -1535.9 |
| 17204552 | 42.8353 | 77.9371 | 300.5 | 1487.4 | -1186.9 |
| 17301173 | 42.8614 | 75.4026 | 381.6 | 1144.5 | -762.9 |
| 17504032 | 42.7963 | 75.4047 | 458.7 | 1388.4 | -929.6 |
| 17703970 | 42.8048 | 75.6506 | 470.6 | 1588.0 | -1117.4 |
| 18304502 | 43.3310 | 77.9651 | 94.5 | 659.3 | -564.8 |
| 18404724 | 43.1509 | 77.9753 | 196.0 | 971.4 | -775.4 |
| 18506669 | 43.0799 | 79.0068 | 174.3 | 862.3 | -687.9 |
| 18606667 | 43.2076 | 78.4651 | 164.0 | 804.7 | -640.7 |
| 18703928 | 42.8680 | 75.4266 | 402.0 | 1184.8 | -782.7 |
| 21104760 | 42.9894 | 77.2799 | 181.7 | 1252.7 | -1071.1 |
| 21304871 | 43.0216 | 77.3354 | 169.5 | 1193.3 | -1023.8 |
| 21506395 | 42.8126 | 77.2029 | 329.2 | 1679.4 | -1350.3 |
| 22704611 | 43.1909 | 78.2583 | 199.9 | 877.8 | -677.9 |
| 22704730 | 43.1803 | 78.1527 | 208.5 | 931.2 | -722.7 |
| 22904912 | 43.2823 | 78.1742 | 132.3 | 742.2 | -609.9 |
| 23004994 | 43.4017 | 77.9610 | 96.3 | 654.7 | -558.4 |
| 23105069 | 43.3191 | 78.0825 | 107.9 | 689.5 | -581.6 |
| 23105086 | 43.3080 | 78.0340 | 114.3 | 725.4 | -611.1 |
| 23205008 | 43.2442 | 78.3293 | 152.7 | 793.7 | -641.0 |
| 23204722 | 43.1858 | 78.4419 | 188.4 | 867.8 | -679.4 |
| 23305096 | 43.1621 | 78.3733 | 192.0 | 903.7 | -711.7 |
| 23404752 | 43.3067 | 78.4530 | 106.7 | 663.5 | -556.9 |
| 23504764 | 43.3259 | 78.3320 | 101.2 | 658.4 | -557.2 |
| 24004055 | 42.6310 | 74.7082 | 603.2 | 1517.9 | -914.7 |
| 24604203 | 42.8762 | 76.8586 | 162.8 | 1488.3 | -1325.6 |
| 27203924 | 42.0630 | 77.4307 | 501.4 | 3581.7 | -3080.3 |
| 27303973 | 42.3702 | 76.5063 | 385.6 | 2861.5 | -2475.9 |
| 27404130 | 42.4421 | 76.5928 | 443.2 | 2677.7 | -2234.5 |
| 27504467 | 42.3844 | 76.5409 | 317.3 | 2744.4 | -2427.1 |
| 28006719 | 43.0292 | 76.9439 | 119.5 | 1188.7 | -1069.2 |
| 28104754 | 43.0824 | 77.2696 | 152.1 | 1092.7 | -940.6 |
| 29104092 | 42.6173 | 78.0803 | 475.5 | 1934.0 | -1458.5 |
| 29504133 | 42.8306 | 78.1170 | 462.1 | 1591.1 | -1129.0 |
| 29704536 | 42.8267 | 78.1385 | 457.5 | 1584.0 | -1126.5 |
| 30104392 | 42.7477 | 78.1979 | 489.2 | 1712.4 | -1223.2 |
| 30406073 | 42.7552 | 78.0976 | 457.5 | 1683.7 | -1226.2 |
| 39028105 | 42.4557 | 79.0408 | 404.8 | 1822.7 | -1417.9 |

Table A-8e.
BASEMENT Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 6004624 | 43.2525 | 76.4911 | 137.8 | 922.3 | -785.5 |
| 9804455 | 42.3905 | 75.0445 | 456.0 | 2401.2 | -1948.6 |
| 9904214 | 42.1826 | 74.9218 | 544.4 | 3342.1 | -2800.8 |
| 9904379 | 42.2736 | 74.6278 | 563.3 | 2718.8 | -2159.5 |
| 13705115 | 43.0906 | 78.3136 | 221.6 | 1085.1 | -864.4 |
| 13805117 | 43.0403 | 78.3902 | 265.2 | 1175.6 | -912.9 |
| 15804567 | 42.9323 | 77.8841 | 243.5 | 1446.6 | -1207.0 |
| 16704630 | 42.6503 | 77.7560 | 182.6 | 1927.6 | -1749.6 |
| 17204552 | 42.8353 | 77.9371 | 305.1 | 1714.5 | -1414.0 |
| 17703970 | 42.8048 | 75.6506 | 472.1 | 1725.5 | -1254.9 |
| 18304502 | 43.3310 | 77.9651 | 95.1 | 661.4 | -566.9 |
| 18404724 | 43.1509 | 77.9753 | 196.9 | 1135.1 | -939.1 |
| 18506669 | 43.0799 | 79.0068 | 177.4 | 925.4 | -751.0 |
| 18604719 | 43.3360 | 78.5128 | 102.4 | 607.8 | -507.5 |
| 18606667 | 43.2076 | 78.4651 | 167.6 | 827.5 | -663.5 |
| 18703928 | 42.8680 | 75.4266 | 402.9 | 1315.5 | -913.5 |
| 21304871 | 43.0216 | 77.3354 | 172.2 | 1282.6 | -1113.1 |
| 22704611 | 43.1909 | 78.2583 | 200.9 | 920.5 | -720.5 |
| 22804873 | 43.3627 | 78.3051 | 85.6 | 605.0 | -520.6 |
| 22904912 | 43.2823 | 78.1742 | 132.9 | 767.5 | -635.2 |
| 22905007 | 43.3579 | 78.1488 | 93.0 | 635.5 | -545.0 |
| 23005091 | 43.3060 | 78.2245 | 113.4 | 706.5 | -595.6 |
| 23004994 | 43.4017 | 77.9610 | 99.1 | 669.6 | -573.3 |
| 23105069 | 43.3191 | 78.0825 | 110.3 | 703.5 | -595.6 |
| 23105086 | 43.3080 | 78.0340 | 116.4 | 744.9 | -630.6 |
| 23205008 | 43.2442 | 78.3293 | 153.3 | 804.7 | -652.0 |
| 23204722 | 43.1858 | 78.4419 | 190.5 | 908.3 | -719.9 |
| 23304489 | 43.3491 | 78.3788 | 96.9 | 626.4 | -530.4 |
| 23404752 | 43.3067 | 78.4530 | 107.6 | 673.0 | -566.3 |
| 23404753 | 43.3485 | 78.4448 | 100.0 | 608.1 | -511.1 |
| 23504208 | 43.2620 | 76.1033 | 153.3 | 669.0 | -516.6 |
| 23504764 | 43.3259 | 78.3320 | 102.1 | 666.0 | -564.8 |
| 23604209 | 43.3479 | 76.3190 | 141.7 | 780.0 | -639.2 |
| 23605012 | 43.3693 | 76.6017 | 96.9 | 762.3 | -667.8 |
| 23804357 | 43.4440 | 75.8772 | 227.1 | 504.1 | -281.6 |
| 27303973 | 42.3702 | 76.5063 | 394.7 | 3132.7 | -2747.2 |
| 27905041 | 43.1458 | 76.7616 | 131.7 | 1115.0 | -986.0 |
| 27905116 | 43.1520 | 77.0699 | 181.4 | 1124.7 | -945.8 |
| 92004593 | 43.0429 | 78.0774 | 217.3 | 1162.2 | -947.9 |
| 93605096 | 43.1621 | 78.3733 | 192.3 | 946.4 | -754.4 |
| 94705114 | 43.1116 | 77.0207 | 149.0 | 1129.3 | -980.8 |
| 83604203 | 42.8762 | 76.8586 | 165.2 | 1638.9 | -1476.1 |
| 82400698 | 43.1552 | 75.7086 | 131.1 | 730.0 | -598.9 |
| 81904055 | 42.6310 | 74.7082 | 603.2 | 1632.2 | -1029.0 |
| 76400109 | 42.1428 | 80.0477 | 198.1 | 1814.2 | -1616.0 |
| 37357002 | 42.6933 | 75.3451 | 418.5 | 1686.8 | -1268.3 |
| 37353001 | 43.0151 | 75.0353 | 123.4 | 336.8 | -213.4 |
| 37354001 | 43.2067 | 75.4479 | 135.6 | 475.5 | -339.9 |
| 37354004 | 43.1080 | 75.2866 | 146.3 | 609.6 | -463.3 |
| 37359001 | 43.3832 | 75.1872 | 400.8 | 103.6 | 297.2 |
| 37311004 | 43.1211 | 76.5935 | 145.1 | 1180.5 | -1035.4 |
| 37313002 | 43.0554 | 77.6524 | 164.6 | 1192.4 | -1027.8 |
| 37303010 | 43.3383 | 75.7413 | 156.7 | 466.3 | -309.7 |
| 37304005 | 43.3651 | 75.7659 | 182.0 | 505.4 | -323.4 |
| 37305004 | 43.2983 | 76.1525 | 128.0 | 736.1 | -608.1 |
| 37305005 | 43.2807 | 76.0038 | 152.4 | 717.8 | -565.4 |
| 37306002 | 43.4340 | 76.4652 | 117.3 | 709.3 | -591.9 |
| 39004001 | 43.2681 | 78.7376 | 106.7 | 588.3 | -481.6 |
| 39028105 | 42.4557 | 79.0408 | 404.8 | 1966.0 | -1561.2 |
| 39063001 | 43.2301 | 79.9919 | 171.0 | 657.8 | -486.8 |
| 39066001 | 42.9885 | 79.0641 | 182.9 | 923.5 | -740.7 |
| 39066003 | 42.9243 | 79.1008 | 184.4 | 992.1 | -807.7 |

Table A-8e. (Cont.)
BASEMENT Data.

| WELL ID# | LATITUDE | LONGITUDE | ELEVATION (METERS) | DEPTH (METERS) | DATUM DEPTH (METERS) |
|----------|----------|-----------|-----------------------|-------------------|-------------------------|
| 39066004 | 42.9021 | 79.1554 | 182.9 | 1005.8 | -823.0 |
| 39067001 | 42.9167 | 79.3819 | 177.4 | 966.5 | -789.1 |
| 90001808 | 42.4901 | 79.2825 | | | -1439.0 |
| 90004437 | 42.1921 | 79.3601 | | | -1923.9 |
| 90004561 | 42.2380 | 79.4291 | | | -1808.4 |
| 90004154 | 42.3316 | 79.1461 | | | -1800.1 |
| 90003956 | 42.4297 | 78.2437 | | | -2174.1 |
| 90004248 | 42.4658 | 78.2270 | | | -2117.8 |
| 90000615 | 42.5423 | 78.4170 | | | -1754.1 |
| 90004092 | 42.6314 | 78.0883 | | | -1731.6 |
| 90004392 | 42.7475 | 78.2225 | | | -1438.0 |
| 90006073 | 42.7520 | 78.0875 | | | -1449.0 |
| 90004069 | 42.8970 | 77.9164 | | | -1249.7 |
| 90004806 | 43.1176 | 78.0763 | | | -841.9 |
| 90003924 | 42.0471 | 77.4358 | | | -3644.5 |
| 90006395 | 42.8115 | 77.1875 | | | -1555.7 |
| 90004760 | 42.9348 | 77.2365 | | | -1364.6 |
| 90004754 | 43.0888 | 77.2215 | | | -1044.9 |
| 90006719 | 43.0284 | 76.8952 | | | -1176.2 |
| 90000443 | 42.1966 | 76.5553 | | | -3251.3 |
| 90004467 | 42.3820 | 76.5520 | | | -2724.9 |
| 90004715 | 42.8943 | 76.6274 | | | -1389.9 |
| 90004999 | 42.9843 | 76.4875 | | | -1207.0 |
| 90005000 | 43.0609 | 76.5117 | | | -1074.4 |
| 90001003 | 43.0735 | 76.5763 | | | -1060.7 |
| 90005031 | 43.1599 | 76.5533 | | | -914.4 |
| 90001008 | 43.4120 | 76.3714 | | | -557.2 |
| 90004032 | 42.8151 | 75.3771 | | | -1029.0 |
| 90004547 | 42.5504 | 74.8495 | | | -1364.9 |
| 90003993 | 42.8925 | 74.8849 | | | -471.5 |
| 90005087 | 42.3541 | 75.9771 | | | -2708.8 |
| 90004714 | 42.5261 | 75.9533 | | | -2215.3 |

APPENDIX B:
TABLE B1

Table B-1

Estimated production of a single well over 25 years

| Years | Estimated | Estimated |
|-------|-------------------------|-------------------------|
| | Production (bbls/D) | Production (bbls/D) |
| | For Delta P =150 psi | For Delta P =250 psi |
| 1 | 21750 | 36250 |
| 2 | 20663 | 34438 |
| 3 | 19629 | 32716 |
| 4 | 18648 | 31080 |
| 5 | 17716 | 29526 |
| 6 | 17361 | 28935 |
| 7 | 17014 | 28357 |
| 8 | 16674 | 27789 |
| 9 | 16340 | 27234 |
| 10 | 16013 | 26689 |
| 11 | 15693 | 26155 |
| 12 | 15379 | 25632 |
| 13 | 15072 | 25120 |
| 14 | 14770 | 24617 |
| 15 | 14475 | 24125 |
| 16 | 14185 | 23642 |
| 17 | 13902 | 23169 |
| 18 | 13624 | 22706 |
| 19 | 13351 | 22252 |
| 20 | 13084 | 21807 |
| 21 | 12822 | 21371 |
| 22 | 12566 | 20943 |
| 23 | 12315 | 20524 |
| 24 | 12068 | 20114 |
| 25 | 11827 | 19712 |

