

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBSURFACE-TEMPERATURE DATA FOR SOME WELLS IN
WESTERN UTAH

Open-File Report 77-132

UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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By F. Eugene Rush

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Salt Lake City, Utah

January 1977

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SUBSURFACE-TEMPERATURE DATA FOR SOME WELLS

IN WESTERN UTAH

By F. Eugene Rush

GENERAL STATEMENT

The data contained in this report were gathered as part of a hydro-thermal reconnaissance of the State of Utah. These data, plus additional data and information, will form the basis for a future interpretive report. These data are being released separately from and prior to the interpretive report, to make them available to interested parties at the earliest possible time.

Table 1 contains temperature-profile data for 30 wells; their general locations are shown in figure 1. The well locations were estimated from aerial photographs and topographic maps; no effort was made to survey the sites and as a result some locations may be slightly in error.

Temperatures were measured using thermistor, 4-conductor cable, and a digital multimeter. Meter readings were in ohms, but were converted to temperature by a calibration graph. The electronic thermometer is capable of an accuracy to 0.01°C , and readings were so recorded. Because of variations in field conditions, the temperature data in many wells probably is accurate only to 0.1°C . Depths below land surface were measured using a sheave and attached counter. Depths are generally accurate to the nearest foot.

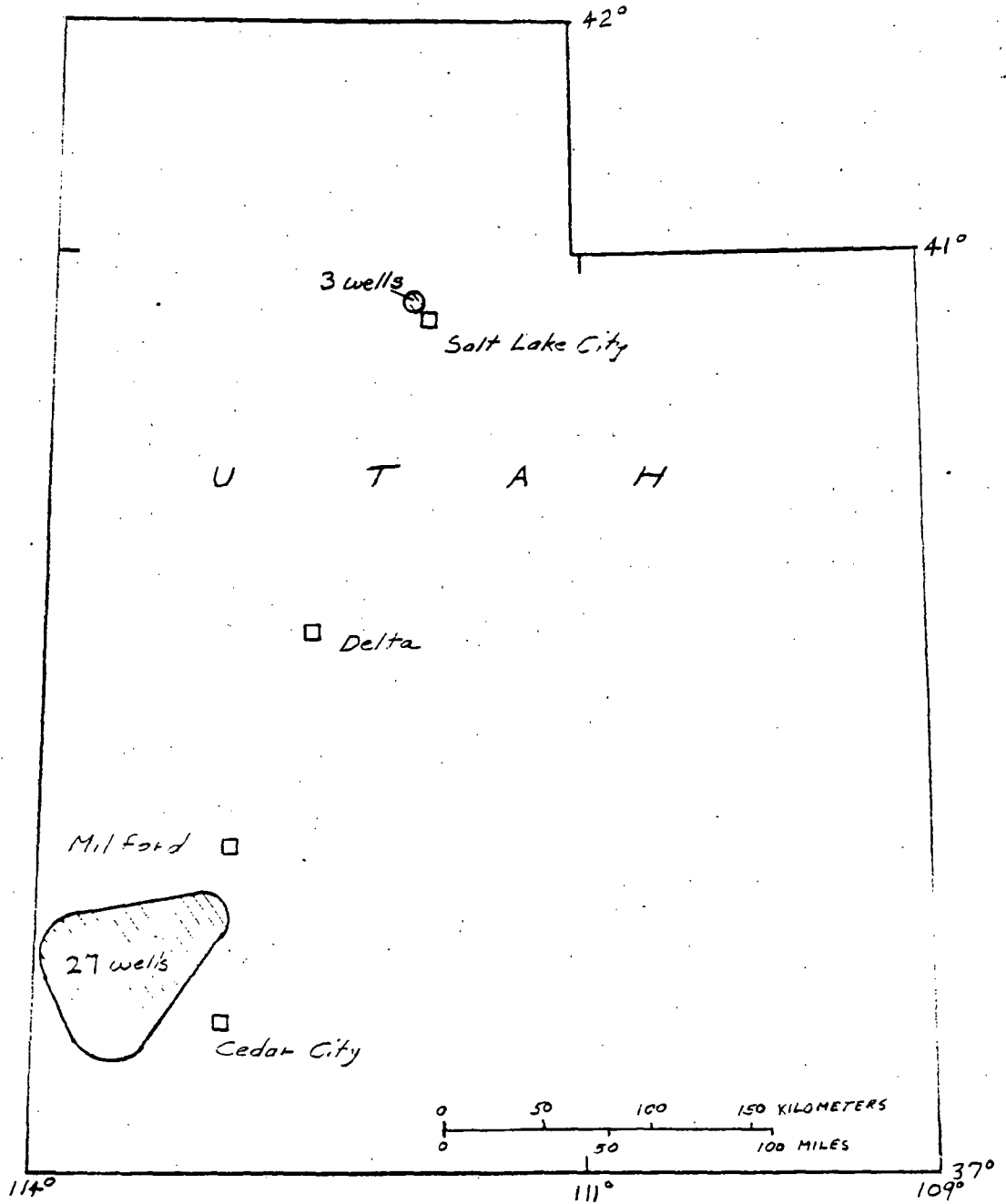


Figure 1.--Location of wells with temperature-profile data
in this report.

Most of the wells were small-diameter geothermal-exploration wells. Some were stock, domestic, or irrigation wells.

CONVERSION FACTORS

The units used in this report are depth below land surface in feet and temperature in degrees Celsius ($^{\circ}\text{C}$). To convert feet to meters, multiply feet by 0.3048; to convert degrees Celsius to degrees Fahrenheit, multiply by 1.8 and add 32 [$^{\circ}\text{F} = (1.8 \text{ }^{\circ}\text{C}) + 32$].

Table 1.--Subsurface temperature-profile data for selected wells
in western Utah

don't enter

Well location: SE $\frac{1}{2}$ sec. 31, T. 1 N., R. 1 W.

Depth (feet)	Temperature (°C)
0	15.70
20	14.70
40	15.60
60	16.74
80	17.38
100	18.04
20	18.57
40	19.12
60	18.77
80	19.16
200	19.63
20	20.16
40	20.58
60	20.96
80	21.38
300	21.79
20	22.25
40	22.50
60	23.53
80	23.97
400	24.20
20	24.55
40	25.14
60	25.36
80	25.74
500	26.26
20	26.86
40	27.50
60	27.98
80	28.29
600	28.40

76.5
18.0
52.2
71.9
74.1
6.0
8

don't enter

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 1. N., R. 2 W.

Depth (feet)	Temperature (°C)
25	19.52
50	20.20
75	20.47
100	20.76
125	20.91
150	21.11
175	21.90
200	21.44
225	21.60
250	21.57
258	21.45

*Least squares
surface intercept 19.82°C*

Don't enter

Well location: NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 36, T. I. N., R. 2 W.

Depth (feet)	Temperature (°C)
-----------------	---------------------

0	20.83 [?] (Well flowing less than 1 gal/min.)
25 ✓	21.76 ✓
50 ✓	22.10 ✓
75 ✓	22.74 ✓
100 ✓	23.44 ✓
125 ✓	24.20 ✓
150 ✓	24.85 ✓
175 ✓	25.46 ✓
200 ✓	26.10 ✓
225 ✓	26.87 ✓
250 ✓	27.70 ✓
275 ✓	28.65 ✓
300 ✓	29.75 ✓
325 ✓	29.90 ✓
350 ✓	30.09 ✓
375 ✓	30.25 ✓
400 ✓	30.30 ✓
425 ✓	30.40 ✓
446 ✓	30.40 ✓

least squares
y intercept = 21.41°C

0.233 °C/ft
76.4 °C/m

10 #7 20 x
Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 22 S., R. 6 W.

Depth (feet)	Temperature (°C)
15	12.55
20	12.41
25	12.25
30	12.15
35	12.15
40	12.35
45	12.53
50	12.57
50 55	12.62
60	12.67
65	12.73
70	12.77
75	12.82
80	12.84
85	12.97
90	13.05
95	13.11
100	13.20

Well location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 15 S., R. 9 W.

Depth (feet)	Temperature (°C)
25	14.36
50	14.98
75	15.42
100	15.92
125	16.46
150	16.91
175	17.39
200	17.96
225	18.47
250	18.95
275	19.46
300	19.95
325	20.60
350	21.01
375	21.55
400	22.15
425	22.68
450	23.22
475	23.79
494	24.19

3

Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 23, T. 14 S., R. 9 W.

Depth (feet)	Temperature (°C)
25	13.42
50	14.21
75	14.34
100	14.87
125	15.31
150	15.78
175	16.14
200	16.52
225	16.86
250	17.25
275	17.63
300	18.00
325	18.45
350	18.90
375	19.28
400	19.73
425	20.12
450	20.53
475	20.96

4

Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 15, T. 14 S., R. 8 W.

Depth (feet)	Temperature (°C)
25	16.11
50	17.30
75	18.24
100	19.40
125	19.81
150	20.59
175	21.41
200	22.15
225	22.94
250	23.79
275	24.70
300	25.56
325	26.41
350	27.28
375	28.09
400	28.85
425	29.72
450	30.52
475	31.49
495	32.10

5
Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 35, T. 22 S., R. 6 W.

Depth (feet)	Temperature (°C)
5	65.2
15	66.7
25	67.0
35	67.1
45	67.1
55	67.2
65	67.2
75	67.2
85	67.2
90	67.05

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 23 S., R. 8 W.

Depth (feet)	Temperature (°C)
20	15.34
30	15.38
40	15.92
50	16.39
60	16.96
70	17.10
80	17.65
90	18.24
100	18.74
104	18.94

Well location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 23 S., R. 8 W.

Depth (feet)	Temperature (°C)
30	14.31
45	14.30
60	14.49
75	14.84
90	15.40
105	15.89
120	16.33
135	16.76
150	17.23
165	18.00
180	18.52
195	19.01
210	19.52
225	19.96
240	20.48
255	21.00
270	21.53
285	22.02
295	22.34

7
Well location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 23 S., R. 9 W.

Depth (feet)	Temperature (°C)
30	15.06
45	14.63
60	14.92
75	15.25
90	15.60
105	15.84
120	16.04
135	16.48
150	16.67
165	17.03
180	17.37
195	17.60
210	17.79
225	17.95
240	18.16
255	18.37
270	18.60
285	18.83
293	18.96

9

Well location: SW $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 2, T. 24 S., R. 8 W.

Depth (feet)	Temperature (°C)
30	14.14
45	14.91
60	15.61
75	16.12
90	16.60
105	17.10
120	17.52
135	17.84
150	18.14
165	18.41
180	18.75
195	18.82
210	18.90
225	19.03
240	19.12
255	19.19
270	19.24
285	19.34
300	19.37
315	19.43
330	19.50
345	19.54
360	19.59
375	19.64
377	19.64

Well location: NE $\frac{1}{4}$ sec. 9, T. 24 S., R. 8 W.

Depth (feet)	Temperature (°C)
25	14.44
50	14.10
75	14.41
100	14.77
125	15.12
150	15.47
175	15.81
200	16.15
225	16.51
250	16.86
275	17.23
300	17.62
325	18.00
350	18.37
375	18.78
400	19.15
425	19.52
450	19.83
475	20.19
487	20.32

//
Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 12, T. 24 S., R. 9 W.

Depth (feet)	Temperature (°C)
25	15.80
50	15.60
75	15.86
100	16.14
125	16.32
150	16.49
175	16.74
200	17.03
225	17.32
250	17.64
275	17.95
300	18.27
325	18.58
350	18.95
375	19.30
400	19.64
425	19.96
450	20.34
475	20.73
493	21.00

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 24 S., R. 9 W.

Depth (feet)	Temperature (°C)
20	12.50
30	12.41
40	12.66
50	12.75
60	12.82
70	12.84
80	12.85
90	12.83
100	12.84
110	12.89
120	12.91
130	12.96
140	13.03
150	13.06
160	13.13
168	13.20

Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 25 S., R. 7 W.

Depth (feet)	Temperature (°C)
100	25.10
200	30.57
300	36.05
400	41.53
500	47.00
600	53.58
700	59.65
800	65.80
900	71.90
1,000	77.20

14

Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 1, T. 25 S., R. 8 W.

Depth (feet)	Temperature (°C)
25	14.00
50	16.95
75	19.56
100	21.85
125	24.28
150	26.39
175	28.20
200	29.74
225	31.33
250	32.90
275	34.50
300	36.60
325	38.30
350	39.85
375	41.50
400	43.00

Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 25 S., R. 8 W.

Depth (feet)	Temperature (°C)
15	14.93
30	14.09
45	14.97
60	15.68
75	15.92
90	16.14
105	16.60
120	16.95
135	17.36
150	17.77
165	17.83
180	17.83
195	17.83
206	17.83

37° 11.4E

19

Well location: NE $\frac{1}{2}$ NE $\frac{1}{2}$, sec. 22, T. 30 S., R. 11 W.

38° 11.40' Lat 113° 4' long

Depth (feet)	Temperature (°C)
15	14.76
25	15.36
35	16.60
45	17.60
55	18.26
65	19.00
75	19.62
85	20.33
95	20.96
96.3	21.16

Well location: SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 27, T. 26 S., R. 8 W.

Depth (feet)	Temperature (°C)
15	13.24
30	11.30
45	11.68
60	12.08
75	12.35
90	12.59
105	12.82
120	12.99
135	13.17
150	13.39
165	13.53
180	13.69
195	13.84
210	14.01
225	14.17
240	14.32
255	14.46
270	14.59
285	14.75
289	14.80

17
Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 18, T. 26 S., R. 7 W.

Depth (feet)	Temperature (°C)
20	11.02
30	11.23
40	11.46
50	11.75
60	11.85
70	12.06
80	12.20
90	12.34
100	12.47
110	12.59
112	12.62

16
Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 25 S., R. 8 W.

Depth (feet)	Temperature (°C)
25	13.35
50	16.64
75	19.90
100	23.47
125	26.71
150	28.71
175	31.23
200	33.57
225	35.39
250	37.00
275	38.66
300	40.25
325	42.08
350	43.70
375	45.34
400	46.98
425	48.72
437	49.30

20

Well location: SE $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 26, T. 30 S., R. 11 W.

38° 9.87' Lat 113° 3.5'

Depth (feet)	Temperature (°C)
15	14.95
25	14.98
35	15.67
45	16.30
55	16.84
65	17.17
75	17.58
85	18.03
95	18.48
105	18.90
115	19.23
118.1	19.34

21

Well location: NW $\frac{1}{2}$ SW $\frac{1}{2}$, sec. 30, T. 30 S. R. 11 W.

38° 10.12' Lat. 113° 8.3' Long.

Depth (feet)	Temperature (°C)
15	13.62
25	13.78
35	14.53
45	15.24
55	15.70
65	16.22
75	16.77
85	17.36
95	17.70
104.4	18.06

22

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 34, T. 30 S., R. 11 W.

38° 9.70' Lat 113° 4.7' Long.

Depth (feet)	Temperature (°C)
15	14.13
25	14.13
35	14.82
45	15.17
55	15.57
65	15.86
75	16.24
85	16.60
95	17.14
105	17.57
115	17.84
119.7	17.94

23

Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 4, T. 30 S., R. 12 W.

38° 13.40' Lat 113° 12.15' Long

Depth (feet)	Temperature (°C)
5	19.67
15	13.98
25	13.37
35	13.80
45	14.30
55	14.63
65	15.00
75	15.27
85	15.57
95	15.81
105	16.02
115	16.27
125	16.46
134.5	16.72

24

Well location: NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 13, T. 30 S., R. 12 W.

38° 11.85' Lat 113° 9.35' long

Depth (feet)	Temperature (°C)
10	10.77
25	11.26
50	12.55
75	13.78
100	14.84
25	14.97
50	17.24
75	18.34
200	19.22
25	20.30
50	21.23
75	22.27
300	23.02
25	23.81
50	24.40
75	25.08
400	25.68
425	26.15
50	26.62
75	27.12
494	27.48

Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 14, T. 30 S., R. 12 W.

38° 11.65' lat 113° 10.45' long

Depth (feet)	Temperature (°C)
15	16.34
30	14.20
45	14.40
60	15.11
75	16.59
90	17.63
105	18.87
120	20.06
135	21.43
150	22.58
165	23.38
180	24.17
195	25.10
210	25.88
225	26.62
240	27.56
255	28.40
270	29.05
285	29.44
300	29.82
315	30.19
330	30.50
345	30.77
360	30.96
375	31.22
390	31.43
405	31.60
420	31.82
435	32.00
450	32.20
465	32.38
480	32.57
495	32.77
510	33.00
525	33.24

Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 14, T. 30 S., R. 12 W.--Continued

Depth (feet)	Temperature (°C)
540	33.50
555	33.86
570	34.22
585	34.64
600	35.00
615	35.34
630	35.70
645	36.07
660	36.40
675	36.70
690	37.00
705	37.32
720	37.63
735	37.90
750	38.18
765	38.50
780	38.84
795	39.10
810	39.34
825	39.66
840	39.88
855	40.18
870	40.42
885	40.73
893	40.84

26

Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 15, T. 30 S., R. 12 W.

38° 12.25' Lat 113° 11.5' Long.

Depth (feet)	Temperature (°C)
5	18.17
15	13.34
25	13.16
35	13.48
45	13.80
55	14.06
65	14.34
75	14.64
85	14.86
95	15.12
105	15.39
115	15.72
116.6	15.83

7
Well location: NE $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 15, T. 30 S., R. 12 W.

38° 11.85' Lat 113° 11.25' Long

Depth (feet)	Temperature (°C)
0	11.95
10	11.43
20	13.45
30	14.90
40	15.64
50	16.26
60	17.03
70	17.74
80	18.40
90	19.11
100	19.84
10	20.54
20	21.20
30	22.35
40	23.20
50	23.83
60	24.50
70	25.22
80	25.93
90	26.67
200	27.43
10	28.16
20	28.80
30	29.42
40	30.17
50	30.97
60	31.56
70	32.20
80	32.77
90	33.30
300	33.83
10	34.39
20	34.83
30	35.23
40	35.70

Well location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 30 S.; R. 12 W. - Continued

50	36.14
60	36.54
70	36.93
80	37.37
90	37.90
400	38.35
10	38.87
20	39.36
30	39.77
40	40.30
50	40.76
60	41.25
70	41.76
80	42.18
481.2	42.19

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 17, T. 30 S., R. 12 W.

38° 11.65' Lat 113° 12.9' Long

Depth (feet)	Temperature (°C)
5	21.3
15	18.53
25	14.95
35	14.44
45	14.60
55	14.81
65	15.0
75	15.15
85	15.33
95	15.53
105	15.67
115	15.86
125	16.04
135.0	16.24

29

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 20, T. 30 S., R. 12 W.

38° 10.75' Lat 113° 12.9 Long

Depth (feet)	Temperature (°C)
5	17.2
15	11.24
25	10.77
35	11.07
45	11.35
55	11.58
65	11.75
75	11.91
85	12.10
95	12.31
98.6	12.38

30

Well location: NE $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 22, T. 30 S., R. 12 W.

38° 10.95' Lat 113° 11.3' Long

Depth (feet)	Temperature (°C)
5	18.15
15	15.31
25	16.40
35	18.48
45	19.16
55	20.53
65	22.13
75	23.76
85	25.44
95	27.08
103.3	28.40

Well location: SE $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 27, T. 30 S., R. 12 W.

38° 10.30' Lat 113° 10.75' Long

Depth (feet)	Temperature (°C)
15	13.58
25	13.01
35	13.43
45	13.80
55	14.13
65	14.40
75	14.66
85	14.92
95	15.11
98.9	15.20

32

Well location: NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 27, T. 30 S., R. 12 W.

38° 10.3' Lat 113° 11.5' Long

Depth (feet)	Temperature (°C)
5	17.70
15	13.42
25	13.44
35	14.64
45	15.84
55	16.78
65	17.83
75	18.69
85	19.64
95	20.76
104.8	21.70

17.3' 115°
2
Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 29, T. 30 S., R. 12 W.

38° 9.95' Lat 113° 13.2' Long

Depth (feet)	Temperature (°C)
5	15.6
15	11.28
25	11.6
35	12.25
45	12.72
55	13.05
65	13.35
75	13.65
85	14.00
95	14.25
95.8	14.30

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 30, T. 30 S., R. 12 W.

38° 10.5' Lat. 113° 14.55' Long

Depth (feet)	Temperature (°C)
5	18.58
15	13.49
25	13.02
35	13.24
45	13.56
55	13.80
65	13.97
75	14.17
85	14.42
95	14.77
105	14.94
115	15.11
118.0	15.20

Well location: SE $\frac{1}{2}$ SW $\frac{1}{2}$, sec. 33, T. 30 S., R. 12 W.

38° 9.05' Lat 113° 12.45' long

Depth (feet)	Temperature (°C)
5	-
10	20.77
20	19.10
30	13.26
40	13.65
50	14.01
60	14.47
70	14.85
80	15.26
90	15.63
100	16.07
10	16.36
20	16.85
30	17.26

Well location: NW $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 33, T. 30 S., R. 12 W.

38° 9.7' Lat 113° 12.25' Long

Depth (feet)	Temperature (°C)
5	10.18
10.2	10.67
15.3	13.07
19.9	13.97
25.0	14.93
30.2	15.70
35.1	16.26
40.0	16.76
44.9	17.33
50.4	17.96
55.2	18.58
60.1	19.15
65.1	19.68
70.0	20.25
75.0	20.83
79.9	21.47
85.1	22.16
90.3	22.89
95.0	23.33
100.4	23.86
105.2	24.38
109.8	24.92
115.0	25.45
120.2	25.93
124.9	26.33
130.2	26.82
131.3	27.00

27
Well location: SE $\frac{1}{2}$ SE $\frac{1}{2}$, sec. 36, T. 30 S., R. 12 W.

38° 8.95' lat. 113° 8.6' Long

Depth (feet)	Temperature (°C)
20	20.90
40	19.15
60	18.86
80	19.05
100	19.85
20	20.85
40	21.88
60	22.85
80	23.75
200	24.90
20	25.82
223	26.00

Well location: NE $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 36, T. 30 S., R. 13 W.

38° 9.7' Lat 113° 8.6' Long

Depth (feet)	Temperature (°C)
25	9.74
50	12.77
75	14.02
100	15.33
25	16.20
50	17.02
75	17.83
200	18.66
25	19.16
50	19.61
75	20.14
300	20.46
25	21.06
50	21.43
75	21.79
400	22.14
25	22.56
450	22.72
75	23.02
494	23.20

34

Well location: NW $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 6, T. 31 S., R. 11 W.

38° 8.75' Lat 113° 7.75' long

Depth (feet)	Temperature (°C)
15	14.03
25	14.22
35	14.47
45	14.76
55	14.97
65	15.17
75	15.45
85	15.68
95	15.88
105	16.12
115	16.35
125	16.58
135	16.82
145	17.04
149.6	17.14

75° Lat 115° 7'

Hores U.

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 27, T. 31 S., R. 11 W.

38° 5.15' Lat 113° 4.4' long

Depth (feet)	Temperature (°C)
15	11.94
35	11.81
55	12.19
75	12.49
95	12.79
115	12.94
135	13.13
149.4	13.21

113° 4' 113°

41

Well location: SE $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 1, T: 31 S., R. 12 W.

38° 8.45' Lat 113° 8.6' Long

Depth (feet)	Temperature (°C)
15	14.57
25	14.90
35	15.57
45	16.23
55	16.48
65	17.42
75	18.03
85	18.54
95	19.10
105	19.55
115	20.16
125	20.54
135	21.05
145	21.38
148.1	21.64

N 45° E 11

42

Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 1, T. 31 S., R. 12 W.

38° 8.75' Lat 113° 9.35' long

Depth (feet)	Temperature (°C)
5	19.0
15	14.02
25	14.13
35	14.83
45	15.36
55	15.91
65	16.34
75	16.66
85	16.92
95	17.33
105	17.58
115	17.99
125	18.32
135	18.50
140.6	18.64

lat

9.3- 115

Well location: NW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 3, T. 31 S., R. 12 W.

38° 8.15' Lat 113° 11.5' Long

Depth (feet)	Temperature (°C)
20	17.23
40	16.52
60	16.79
80	18.54
100	19.90
20	21.10
40	22.36
60	23.36
80	23.57
200	24.04
20	24.31
229	24.34

412
Well location: SW $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 4, T. 31 S., R. 12 W.

38° 8.45' Lat 113° 12.10' Long

Depth (feet)	Temperature (°C)
5	18.72
15	13.56
25	13.14
35	13.44
45	13.72
55	14.03
65	14.24
75	14.41
85	14.64
95	14.83
105	14.98
115	15.17
125	15.36
131.8	15.47

Well location: NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 15, T. 31 S., R. 12 W.

38° 6.35' Lat 113° 11.55' Long

Depth (feet)	Temperature (°C)
5	19.95
10	16.0
15	13.88
20	13.2
25	13.2
30	13.5
35	13.76
40	14.00
45	14.14
50	14.27
55	14.39
60	14.50
65	14.59
70	14.7
75	14.79
80	14.90
85	15.03
90	15.05
95	15.21
100	15.29
102	15.34

4
Well location: SE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 16, T. 31 S., R. 12 W.

38° 6.5' lat. 113° 12.45' long

Depth (feet)	Temperature (°C)
5	19.44
15	14.14
25	13.73
35	13.97
45	14.24
55	14.55
65	14.76
75	14.94
85	15.10
95	15.24
105	15.37
115	15.54
125	15.66
135	15.83
145	15.95
149.4	16.03

17

Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 2, T. 31 S., R. 13 W.

38° 8' Lat, 113° 16.6' Long

Depth (feet)	Temperature (°C)
25	19.05
50	13.06
75	13.27
100	13.67
25	14.05
50	14.34
75	14.76
200	15.09
25	15.63
50	15.88
75	16.26
300	16.62
25	16.92
50	17.28
75	17.90
400	18.36
425	19.02
50	19.66
75	20.12
499	20.54

48

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 32, T. 31 S., R. 14 W.

38° 3.5' Lat.

113° 26.2' Long

28 F

W Long

Depth (feet)	Temperature (°C)
20	14.90
25	15.02
30	15.37
35	15.83
40	16.16
45	16.46
50	16.60
55	16.76
60	16.97
65	17.19
70	17.37
75	17.57
80	17.76
85	17.97
90	18.17
95	18.37
100	18.55
103.8	18.68

49'

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 3, T. 32 S., R. 14 W.

38° 2.6' Lat 113° 24.05'

Depth (feet)	Temperature (°C)
15	12.82
30	11.30
45	11.54
60	11.76
75	11.90
90	12.09
105.3	12.26
120.3	12.43
135.2	12.63
150.1	12.82
164.8	12.97
180	13.16
195.1	13.34
210	13.50
225	13.70
240	13.88
255.1	14.06
270.2	14.29
285	14.46
300	14.66
306.2	14.76

Well location: SE $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 23, T. 32 S., R. 15 W.

38° 00' Lat 113° 30' Long

Depth (feet)	Temperature (°C)
10	17.65
20	15.80
30	16.09
40	16.70
45	17.05
50	17.36
55	17.70
60	17.95
65	18.20
70	18.48
75	18.74
80	18.98
85	19.24
90	19.49
95	19.73
99.0	19.82

Well location: NW $\frac{1}{2}$ NW $\frac{1}{2}$, sec. 30, T. 32 S., R. 15 W.

37° 59.75' Lat 113° 34.6' Long

Depth (feet) Temperature (°C)

15	14.17
25	13.51
35	13.80
40	13.88
45	14.06
50.3	14.23
55.3	14.37
60.1	14.50
65.1	14.65
70	14.81
75	14.94
80.4	15.11
85.1	15.24
90	15.35
95.2	15.43
95.7	15.48

Well location: SE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 11, T. 32 S., R. 16 W.

38° 2.15' Lat 113° 36.7' Long

Depth (feet)	Temperature (°C)
15	12.87
25	12.14
35	12.20
40	12.24
45	12.22
50	12.06
55	12.00
60	12.01
65	12.06
70	12.34
75	12.48
80	12.64
85	12.82
90	12.91
95	13.00
97.9	13.15

5
Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 26, T. 32 S., R. 19 W.

37° 59.08 Lat : 113° 57'

HV-1
37° 59' 05" N Lat
113° 57' 02" W Long.

Depth (feet)	Temperature (°C)
5	17.65
10	-
15	12.08
20	-
25	10.62
30	-
35	10.73
39.8	10.86
50	11.11
59.5	11.26
70	11.40
80.2	11.53
90	11.64
100.1	11.77
110.3	11.92
120.1	12.05
129.8	12.22
140.2	12.36
150	12.53
160	12.67
170	12.84
180.1	13.01
189.9	13.16
198.6	13.30

4
Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 28, T. 33 S., R. 14W.

37° 53.9' Lat. 113° 25.45' Long

Depth (feet)	Temperature (°C)
20	11.86
40	12.42
45	12.74
50	13.02
55	13.12
60	13.52
65	13.70
70	13.87
75	14.05
80	14.22
85	14.37
90	14.50
95	14.61
98.3	14.70

Well location: NE $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 12, T. 33 S., R. 17 W.

37° 57.15' 47", 113° 41.60'

Depth (feet)	Temperature (°C)
20	14.75
40.2	15.14
50.1	15.33
60	15.54
70	15.73
80	15.88
90.1	16.06
98.0	16.20

5
Well location: NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 9, T. 33 S., R. 17 W.

37° 56.75' Lat 113° 45.8' Long

Depth (feet)	Temperature (°C)
15	14.62
24.8	13.84
35	13.99
45.1	14.16
55	14.33
65.3	14.48
75	14.65
85	14.77
95	14.90
98.6	14.95

57
Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 4, T. 34 S., R. 14 W.

37° 52.8 Lat 113° 35.5' Long

Depth (feet)	Temperature (°C)
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20	13.07
----	-------

30	13.17
----	-------

40.3	13.55
------	-------

45	13.64
----	-------

50	13.70
----	-------

55	13.73
----	-------

60	13.80
----	-------

65	13.84
----	-------

70	13.87
----	-------

75	13.89
----	-------

80	13.96
----	-------

85	13.98
----	-------

90	14.02
----	-------

95	14.06
----	-------

98.1	14.07
------	-------

Well location: SE $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 18, T. 34 S., R. 16 W.
 37° 50.4' Lat 113° 41.25' Long

Depth (feet)	Temperature (°C)
15	35.77
25	37.47
35	40.86
45	32.20
55	13.54
65	13.51 - 15.567
75	13.62
85	13.79
95	13.96 - 14.16
105	14.24
115	14.50
125	14.70
135	14.88
145	15.11 - 15.035
155	15.23
165	15.47
175	15.64
185	15.91
195	16.10
205	-
210.2	16.34

63.4 °C/km

115
 16.74
 - 14.5
 1.84

59
Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 8, T. 34 S., R. 18 W.

37° 51.9' lat 113° 53.5' Long

Depth (feet)	Temperature (°C)
15	14.60
25.1	13.64
35	13.90
45	14.17
55	14.66
65.1	14.74
75	14.83
85	14.93
88.8	14.99

60

Well location: NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 10, T. 36 S., R. 15 W.

37° 41.35' N Lat.

113° 31.43'

NC-1

Depth (feet)	Temperature (°C)
20	24.72
40	20.95
60	19.25
80	18.02
100	17.16
120	16.87
140	16.77
160	16.77
180	16.86
200	16.96
220	17.05
240	17.17
260	17.38
280	17.45
300	17.54
320	17.67
340	17.79
360	18.01
380	18.21
388.5	18.28

61

Well location: NW $\frac{1}{2}$ SW $\frac{1}{2}$, sec. 16, T. 36 S., R. 15 W.

37° 40' Lat 113° 32.87' *W.C.* p. 101

37° 40' *W.C.*
113° 32' 58"
475° *C.R.M.*

Depth (feet)	Temperature (°C)
15	-
25	19.12
35	20.30
45	23.10
55	25.30
65	27.20
75	29.40
85	31.50
95	33.87
105	36.37
15	38.66
25	41.00
35	43.04
45	45.14
55	47.20
65	49.15
75	50.87
85	52.47
95	53.75
205	54.60
15	54.75
25	55.00
35	55.25
45	55.60
55	56.68
65	58.00
75	59.20
85	59.96
95	60.40
299.1	60.60

6

Well location: SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 17, T. 36 S., R. 15 W.

37° 39.85 Lat

113° 33'

N/C = 8

37° 37' 53"

113° 58' 02"

1028° C/K M

Depth (feet)	Temperature (°C)
15	20.11
25	22.13
35	25.87
45	-
55	32.20
65	-
75	37.88
85	-
95	44.28
105	-
115	50.76
125	-
135	57.10
145	-
155	63.41
165	66.57
175	69.80
185	73.15
195	76.20
205	78.7
215	81.5
225	83.9
235	85.7
245	87.1
255	88.0
256.9	88.4

Lat 113° 34'

60

Well location: SE $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 19, T. 36 S., R. 15 W.

37° 39.3' Lat 113° 34.25
NC-11 0104

37° 39' 18"
113° 34' 15"

1292°C/km

Depth (feet)	Temperature (°C)
20.0	20.70
50.1	32.24
80	45.25
90	49.50
100	53.20
10	57.00
25	62.2
50	72.0
75	77.5
200	83.7
25	87.3
50	89.5
75	91.1
300	92.5
25	93.9
50	93.9
75	91.9
400	89.6
25	88.2
50	87.1
75	85.8
500	84.9
07	

7 3' 6" 112' 48"

64

Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 20, T. 36 S., R. 15 W.

37°39.57 Lat. 113°33.85' Long
ARC-10 D.102

37°39'34"

113°33'31"

1833°/hr

Depth (feet)	Temperature (°C)
0	54.4
10	77.8
30	91.8
60	95.5
100	95.5
30	95.6
35	95.6
40	96.7
45	97.3
50	98.3
55	98.8
60	99.2
65	100.0
70	100.2
80	101.3
90	102.7
200	103.2
10	103.3
20	103.5
30	106.6
40	107.6
50	107.6
60	107.6
70	107.6
80	107.8
90	107.8
300	107.8
10	107.8
20	107.6
30	106.7
40	106.0
50	106.0
60	106.0
70	105.0
80	105.0



67 Conto

15° 33.8

Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 36 S., R. 15 W. - Continued

90	105.0
400	105.0
410	105.0
20	104.9
30	104.9
40	104.9
50	104.8
60	104.5
70	103.9
80	103.7
90	103.7
500	103.7

65

Well location: NE $\frac{1}{4}$ NE $\frac{1}{4}$, sec. 20, T. 36 S., R. 15 W.

37° 39' 62" Lat 113° 33' 05" Long
N/C-7

37° 39' 37"
113° 33' 03"

309°C/km

Depth (feet)	Temperature (°C)
15	-
25	18.83
35	19.06
45	20.36
55	21.16
65	21.93
75	24.30
85	24.87
95	26.06
105	27.39
115	28.64
125	29.56
135	30.60
145	31.69
155	32.80
165	33.71
175	34.67
185	35.56
195	36.37
205	37.16
215	38.10
225	38.95
235	39.63
245	40.36
255	41.00
265	41.67
275	42.50
285	43.07
295	43.50
299.0	43.66

65 113 22
Well location: NE $\frac{1}{2}$ SW $\frac{1}{2}$, sec. 20, T. 36 S., R. 15 W.

37° 39.13' lat.

113° 33.57' lon.

113

Depth (feet)	Temperature (°C)
10	22.77
25	33.85
40	43.44
55	52.80
70	61.20
85	69.80
100	77.80
115	85.70
116.3	86.30

Well location: SW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 20, T. 36 S., R. 15 W.

37° 38.93 Lat.

113° 33.83' long
NE-C-1

Depth (feet)	Temperature (°C)
15	22.96
25	27.53
50	35.94
75	44.25
100	51.70
25	59.00
50	65.70
75	72.00
200	77.60
25	82.70
50	86.00
75	88.20
300	89.70
25	90.90
50	91.20
75	91.80
400	92.40
415	92.50

60
1
Well location: SE $\frac{1}{2}$ NW $\frac{1}{2}$, sec. 21, T. 36 S., R. 15 W.

37° 39.4' Lat 113° 32.4' Long

Depth (feet)	Temperature (°C)
4.5	26.62
10	23.41
15	20.80
20	18.85
25	14.1
30.1	14.42
31.1	14.45
32.3	14.46
33.0	14.50
34.0	14.54
35.0	14.59
36.2	14.62
36.9	14.65
38.1	14.67
39.0	14.70
40.0	14.71
41.1	14.75
42.3	14.78
43.0	14.81
44.05	14.84
45.05	14.86
45.9	14.88
47.0	14.91
48.1	14.95

67
Well location: NW $\frac{1}{2}$ NW $\frac{1}{2}$, sec. 26, T. 36 S., R. 15 W.

37° 38.75' lat 113° 30.55' Long

Depth (feet)	Temperature (°C)
15	13.03
25	12.05
35	12.30
45	12.42
55	12.53
65	12.67
75	12.86
85	13.02
88.7	13.10

70.

Well location: NW $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 29, T. 36 S., R. 15 W.

37° 38.43' lat

113° 34' NE-4

37° 38' 26"

113° 33' 57"

1.89 °C/m

Depth (feet)	Temperature (°C)
25	16.72
50	17.90
75	19.77
100	21.63
125	23.26
150	24.82
200	27.86
210	28.54
220	28.84
230	-
240	29.87
250	-
260	31.04
270	-
280	32.20
290	-
299.6	33.13

71
Well location: SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 29, T. 36 S., R. 15 W.

37° 38.08' lat 113° 33.3' long
NC 1

Depth (feet)	Temperature (°C)
10	20.26
25	18.70
50	17.74
75	17.45
100	17.30
25	18.35
50	19.30
75	20.00
200	20.73
25	21.45
50	22.07
75	22.73
292	23.14

72

Well location: NE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 30, T. 36 S., R. 15 W.

37° 38.3' lat 113° 34.1' long
NE

Depth (feet)	Temperature (°C)
10	16.15
25	14.95
50	-
75	16.55
100	17.70
25	18.73
50	20.56?
75	21.46
200	22.37
25	23.28
50	24.05
75	24.96
292	25.63

73

Well location: SW $\frac{1}{2}$ SW $\frac{1}{2}$, sec. 30, T. 36 S., R. 15 W.

37° 38.05' lat 113° 35.05' Long

Depth (feet)	Temperature (°C)
20	14.64
40	14.53
60	14.70
80	16.53
100	17.60
120	18.47
140	19.14
160	19.74
164.3	19.86

74

Well location: NW $\frac{1}{2}$ NW $\frac{1}{2}$, sec. 9, T. 37 S., R. 16 W.

37° 35.3' lat 113° 39.5' long.

Depth (feet)	Temperature (°C)
20	13.37
40	13.90
60	14.58
70	-
80	14.45?
90	15.42
100	15.66
110	15.94
120	16.15
130	16.41
140	16.60
148.5	16.84