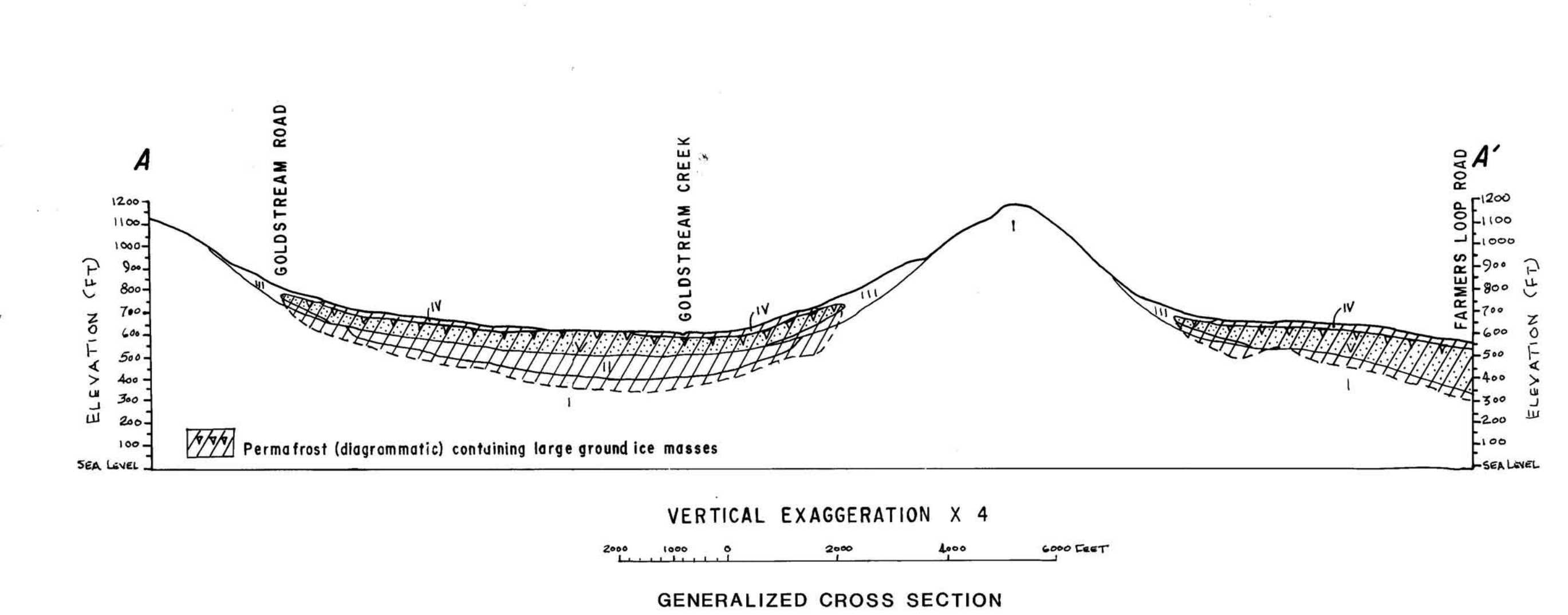


SELECTED SUBSURFACE DATA¹

Selected data from borehole and well logs are presented below. Numbered items correspond to numbered circles on map. An asterisk (*) indicates that permafrost persisted to bottom of hole.

1. 0-1 ft loess. Did not reach bedrock. No permafrost.	88. 0-1 ft loess, 1-220 ft schist. No permafrost.
2. 0-29 ft silt, 29-71 ft creek gravel. Did not reach bedrock. Permafrost 2-71 ft.	89. 0-2 ft loess, 2-300 ft schist. No permafrost.
3. 0-17 ft silt, 17-71 ft creek gravel. Did not reach bedrock. Permafrost 2-71 ft.	90. 0-40 ft loess, 40-152 ft bedrock. No permafrost.
4. 0-28 ft silt, 28-40 ft creek gravel. Bedrock at 40 ft. Permafrost 2-42 ft.	91. 0-82 ft loess, 82-121 ft schist. No permafrost.
5. 0-46 ft silt, 46-60 ft creek gravel. Did not reach bedrock. Permafrost 2-46(?) ft.	92. 0-40 ft loess, 40-122 ft schist. No permafrost.
6. 0-41 ft silt, 41-63 ft creek gravel. Did not reach bedrock. Permafrost 2-63 ft.	93. 0-50 ft loess, 50-112 ft schist. No permafrost.
7. 0-46 ft silt, 46-63 ft creek gravel. Did not reach bedrock. Permafrost 2-46(?) ft.	94. 0-11 ft silt, 11-146 ft organic silt, 146-209 ft organic silt with schist fragments, 209-228 ft schist and quartz. Permafrost 3-101 ft.
8. 0-10 ft silt. Did not reach bedrock. Permafrost 2-10 ft.	95. 0-15 ft silt, 15-146 ft organic silt, 146-209 ft organic silt with schist fragments, 209-228 ft schist and quartz. Permafrost 3-101 ft.
9. 0-13 ft silt. Did not reach bedrock. Permafrost 3-13 ft.	96. 0-28 ft silt, 28-116 ft organic silt, 116-193 ft schist, 193-217(?) ft.
10. 0-13 ft silt. Did not reach bedrock. Permafrost 3-13 ft.	97. 0-100(?) ft silt, 100-200 ft schist. Permafrost 12-92 ft.
11. 0-55 ft silt, 55-101 ft creek gravel. Bedrock at 193 ft. Permafrost 2-198 ft.	98. 0-83 ft loess, 83-98 ft schist. No permafrost.
12. 0-55 ft silt, 55-101 ft creek gravel. Bedrock at 193 ft. Permafrost 2-198 ft.	99. 0-40 ft loess, 40-108 ft schist. No permafrost.
13. 0-5 ft loess, 5-245 ft bedrock. No permafrost.	100. 0-20 ft loess, 20-125 ft schist. No permafrost.
14. 0-4 ft loess, 4-230 ft bedrock. No permafrost.	101. 0-17 ft loess, 17-215 ft schist. No permafrost.
15. 0-5 ft loess, 5-366 ft bedrock. No permafrost.	102. 0-26 ft loess, 26-260 ft schist. No permafrost.
16. 0-11 ft silt, 11-143 ft creek gravel. Did not reach bedrock. Permafrost 2-43 ft.	103. 0-22 ft loess, 22-240 ft schist. No permafrost.
17. 0-103 ft silt, 103-173 ft creek gravel. Did not reach bedrock. Permafrost 2-103(?) ft.	104. 0-26 ft loess, 26-260 ft schist. No permafrost.
18. 0-18 ft silt. Did not reach bedrock. Permafrost 17-18 ft.	105. 0-26 ft loess, 26-260 ft schist. No permafrost.
19. 0-18 ft silt. Did not reach bedrock. Permafrost 17-18 ft.	106. 0-104 ft silt, 104-150 ft weathered bedrock, 150-167 ft bedrock. Permafrost 13-70 ft.
20. 0-13 ft silt. Did not reach bedrock. Permafrost 1-13 ft.	107. 0-150 ft silt, 150-238 ft creek gravel, 238-266 ft bedrock. Permafrost 2-91 ft.
21. 0-19 ft organic silt, 19-93 ft creek gravel, 93-96 ft bedrock. Permafrost 2-96 ft.	108. 0-188 ft silt, 188-368 ft creek gravel. Bedrock at 368 ft. Permafrost 2-126 ft.
22. 0-22 ft organic silt, 22-92 ft creek gravel. Bedrock at 90 ft. Permafrost 2-94 ft.	109. 0-156 ft silt, 156-187 ft creek gravel, 187-300 ft bedrock. Permafrost 12-77 ft.
23. 0-15 ft silt, 15-24 ft creek gravel. Bedrock at 24 ft. Permafrost 2-24 ft.	110. 0-68 ft silt, 68-94 ft creek gravel. Bedrock at 94 ft. Permafrost 8-68 ft.
24. 0-13 ft silt. Did not reach bedrock. Permafrost 2-13 ft.	111. 0-180 ft silt, 180-431 ft weathered bedrock, 431-460 ft. Permafrost 2-94 ft.
25. 0-27 ft organic silt, 27-141 ft creek gravel, 141-111 ft bedrock. Permafrost 2-151 ft.	112. 0-143 ft silt, 143-163 ft weathered bedrock, 163-178 ft creek gravel. Bedrock at 178 ft. Permafrost 2-116 ft.
26. 0-4 ft peat. Did not reach bedrock. Permafrost 1-4 ft.	113. 0-180 ft silt, 180-431 ft weathered bedrock, 431-460 ft. Permafrost 2-94 ft.
27. 0-13 ft silt. Did not reach bedrock. Permafrost 1-13 ft.	114. 0-23 ft silt. Did not reach bedrock. Permafrost 20-23 ft.
28. 0-8 ft peat, 8-13 ft silt. Did not reach bedrock. Permafrost 1-13 ft.	115. 0-4 ft silt. Did not reach bedrock. Permafrost 4-4 ft.
29. 0-1 ft loess, 1-230 ft schist. No permafrost.	116. 0-10 ft silt, 10-96 ft organic silt, 96-98 ft schist. No permafrost recorded.
30. 0-1 ft loess, 1-230 ft schist. No permafrost.	117. 0-105 ft loess, 105-198 ft schist. No permafrost.
31. 0-1 ft loess, 1-230 ft schist. No permafrost.	118. 0-10 ft loess, 10-192 ft schist. No permafrost.
32. 0-1 ft loess, 1-180 ft schist. No permafrost.	119. 0-137 ft silt, 137-220 ft schist. Permafrost present.
33. 0-1 ft loess, 1-230 ft schist. No permafrost.	120. 0-137 ft silt, 137-167 ft schist. Permafrost 20-40 ft.
34. 0-5 ft loess, 5-230 ft schist. No permafrost.	121. 0-25(?) ft silt, 25-223 ft schist. No permafrost.
35. 0-1 ft loess, 1-230 ft schist. No permafrost.	122. 0-125 ft loess, 125-174 ft schist. No permafrost.
36. 0-40 ft loess, 40-248 ft schist. No permafrost.	123. 0-40 (?) ft loess, 40-170 ft schist. No permafrost.
37. 0-40 ft loess, 40-248 ft schist. No permafrost.	124. 0-15 ft loess, 15-233 ft schist. No permafrost.
38. 0-30 ft loess, 30-280 ft schist. No permafrost.	125. 0-15 ft loess, 15-233 ft schist. No permafrost.
39. 0-26 ft silt. Did not reach bedrock. Permafrost 3-26 ft.	126. 0-5(?) ft loess, 5-250 ft schist. No permafrost.
40. 0-26 ft silt. Did not reach bedrock. Permafrost 3-26 ft.	127. 0-45 ft loess, 45-200 ft schist. No permafrost.
41. 0-18 ft silt. Did not reach bedrock. Permafrost 11-18 ft.	128. 0-25 ft loess, 25-300 ft schist. No permafrost.
42. 0-18 ft silt. Did not reach bedrock. Permafrost 11-18 ft.	129. 0-25 ft loess, 25-300 ft schist. No permafrost.
43. 0-25 ft silt. Did not reach bedrock. Permafrost 13-25 ft.	130. 0-15 ft loess, 15-120 ft schist. No permafrost.
44. 0-25 ft silt. Did not reach bedrock. Permafrost 13-25 ft.	131. 0-170 ft silt, 170-195 ft schist. No permafrost.
45. 0-31 ft silt, 31-120 ft creek gravel. Did not reach bedrock. Permafrost 2-120 ft.	132. 0-13 ft silt. Did not reach bedrock. Permafrost 9-13 ft.
46. 0-31 ft silt, 31-120 ft creek gravel. Did not reach bedrock. Permafrost 2-120 ft.	133. 0-110 ft loess, 110-170 ft schist. No permafrost.
47. 0-31 ft silt, 31-120 ft creek gravel. Did not reach bedrock. Permafrost 2-120 ft.	134. 0-70 ft silt, 70-150 ft schist. No permafrost.
48. 0-28 ft silt. Did not reach bedrock. Permafrost 12-33 ft.	135. 0-120 ft silt, 120-200 ft schist. No permafrost.
49. 0-28 ft silt. Did not reach bedrock. Permafrost 12-33 ft.	136. 0-120 ft silt, 120-200 ft schist. No permafrost.
50. 0-48 ft organic silt, 48-119 ft creek gravel, 119-123 ft bedrock. Permafrost 2-123 ft.	137. 0-52 ft loess, 52-185 ft schist. No permafrost.
51. 0-42 ft organic silt, 42-157 ft creek gravel. Did not reach bedrock. Permafrost 25-137 ft.	138. 0-90 ft loess, 90-170 ft schist. No permafrost.
52. 0-122 ft organic silt, 122-260 ft creek gravel. Bedrock at 260 ft. Permafrost 4-98 ft.	139. 0-200(?) ft silt, 200-241 ft schist. Permafrost present.
53. 0-26 ft silt, 26-34 ft fractured bedrock. Bedrock at 34 ft. Permafrost 3-16 ft; 36-43 ft.	140. 0-238 ft organic silt. Did not reach bedrock. Permafrost 2-120 ft.
54. 0-26 ft silt, 26-116 ft creek gravel. Did not reach bedrock. Permafrost 18-26 ft.	141. 0-220 ft silt, 220-241 ft schist. Permafrost 10-100 ft.
55. 0-7 ft silt, 7-36 ft creek gravel. Bedrock at 36 ft. Permafrost 2-36 ft.	142. 0-156 ft organic silt, 156-298 ft schist. Permafrost 25-90 ft.
56. 0-38 ft silt, 38-60 ft creek gravel. Did not reach bedrock. Permafrost present.	143. 0-15 ft silt, 15-169 ft organic silt, 169-178 ft fractured schist, 178-245 ft organic silt and schist fragments. Did not reach bedrock. Permafrost 22-95 ft.
57. 0-47 ft silt, 47-82 ft creek gravel. Did not reach bedrock. Permafrost 2-82 ft.	144. 0-77 ft loess, 77-110 ft schist. No permafrost.
58. 0-47 ft silt, 47-82 ft creek gravel. Did not reach bedrock. Permafrost 2-82 ft.	145. 0-77 ft loess, 77-110 ft schist. No permafrost.
59. 0-47 ft silt, 47-82 ft creek gravel. Did not reach bedrock. Permafrost 2-82 ft.	146. 0-77 ft loess, 77-110 ft schist. No permafrost.
60. 0-2 ft silt, 2-24 ft creek gravel. Bedrock at 24 ft. Permafrost 2-24 ft.	147. 0-85 ft loess, 85-120 ft schist. No permafrost.
61. 0-47 ft silt, 47-82 ft creek gravel. Did not reach bedrock. Permafrost present.	148. 0-80 ft loess, 80-120 ft schist. No permafrost.
62. 0-47 ft silt, 47-82 ft creek gravel. Did not reach bedrock. Permafrost present.	149. 0-80 ft loess, 80-120 ft schist. No permafrost.
63. 0-108 ft silt, 108-164 ft creek gravel. Bedrock at 127 ft. Permafrost 10-57 ft.	150. 0-80 ft loess, 80-120 ft schist. No permafrost.
64. 0-86 ft silt, 86-100 ft creek gravel. Bedrock at 100 ft. Permafrost 41-60 ft.	151. 0-25 ft loess, 25-45 ft organic silt, 45-80 ft schist. No permafrost.
65. 0-118 ft silt, 118-250 schist. Permafrost 12-118(?) ft.	
66. 0-118 ft silt, 118-250 schist. Permafrost 12-118(?) ft.	
67. 0-15 ft silt, 15-343 ft creek gravel, 343-355 ft bedrock. Permafrost 2-62 ft.	
68. 0-14 ft silt, 14-27 ft ice. Did not reach bedrock. Permafrost 2-12; 14-27 ft.	
69. 0-40 ft silt. Did not reach bedrock. Permafrost 7-13; 20-27; 30-40 ft.	
70. 0-13 ft silt. Did not reach bedrock. Permafrost 6-13 ft.	
71. 0-13 ft silt. Did not reach bedrock. Permafrost 6-13 ft.	
72. 0-40 ft silt, 40-152 ft creek gravel. Bedrock at 152 ft. Permafrost 2-152 ft.	
73. 0-13 ft silt. Did not reach bedrock. Permafrost 6-13 ft.	
74. 0-40 ft silt, 40-152 ft creek gravel. Bedrock at 152 ft. Permafrost 2-152 ft.	
75. 0-50 ft silt, 50-138 ft creek gravel. Bedrock at 138 ft. Permafrost 2-144 ft.	
76. 0-13 ft silt. Did not reach bedrock. Permafrost 6-13 ft.	
77. 0-65 ft loess, 65-85 graphitic schist. No permafrost.	
78. 0-12 ft loess, 12-400 ft schist. No permafrost.	
79. 0-12 ft loess, 12-400 ft schist. No permafrost.	
80. 0-15 ft loess, 15-315 ft schist. No permafrost.	
81. 0-83 ft loess, 83-90 ft clay, 90-183 ft bedrock. No permafrost.	
82. 0-1 ft loess, 1-378 ft schist. No permafrost.	
83. 0-1 ft loess, 1-378 ft schist. No permafrost.	
84. 0-5 ft loess, 5-250(?) ft schist. No permafrost.	
85. 0-1 ft loess, 1-230 ft schist. No permafrost.	
86. 0-3 ft loess, 3-348 ft schist. No permafrost.	
87. 0-10 ft loess, 10-260 ft schist. No permafrost.	



MAP SHOWING FOUNDATION CONDITIONS
IN THE FAIRBANKS D-2 NW QUADRANGLE, ALASKA
BY
TROY L. PÉWÉ AND JOHN W. BELL
1975