APPENDIX B (Continued)

Well Logs, Soil Boring Logs, and MIP/EC Results

MIP/EC Output Data

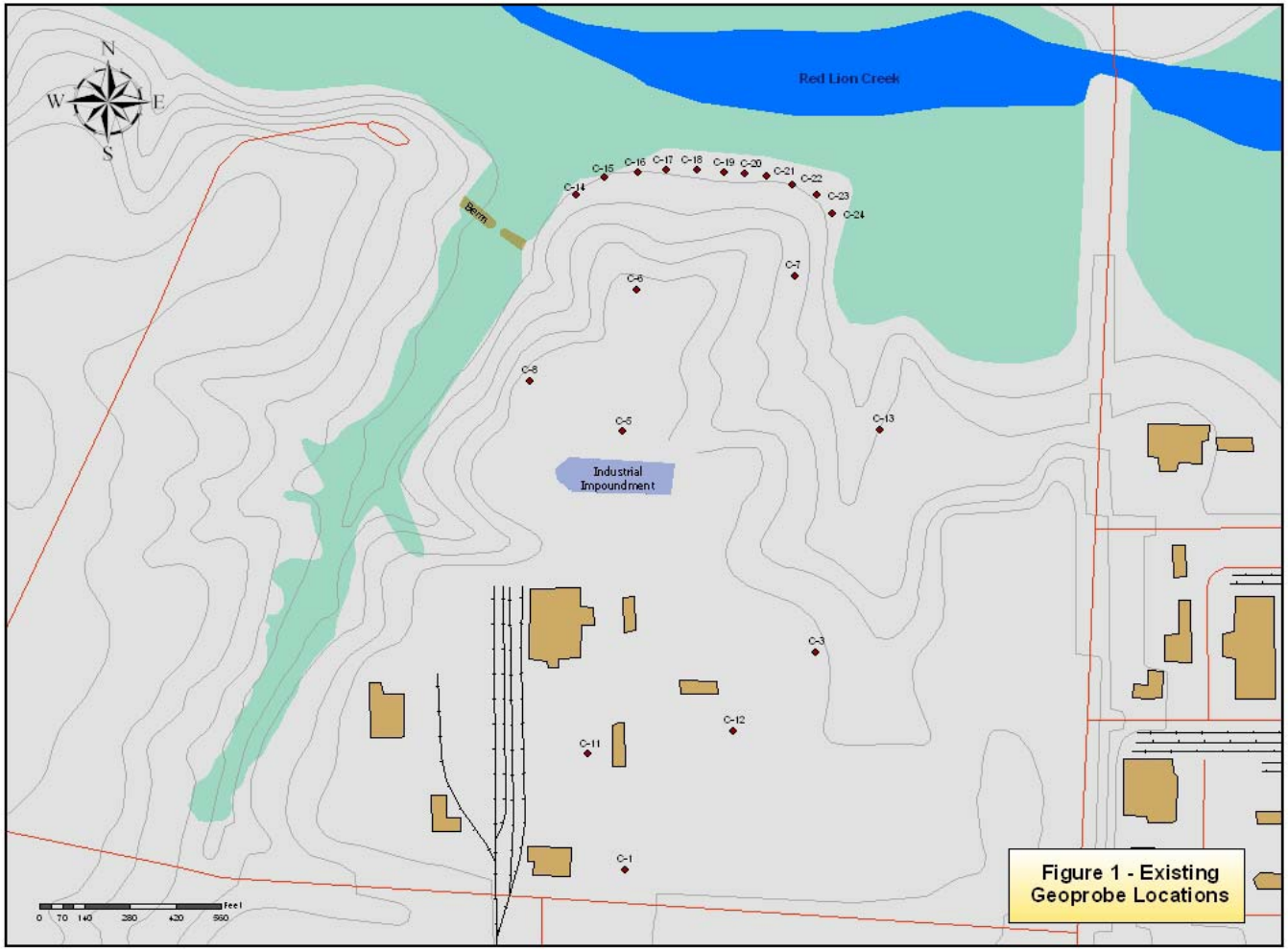


Figure 1 Site Map with MIP/EC Locations

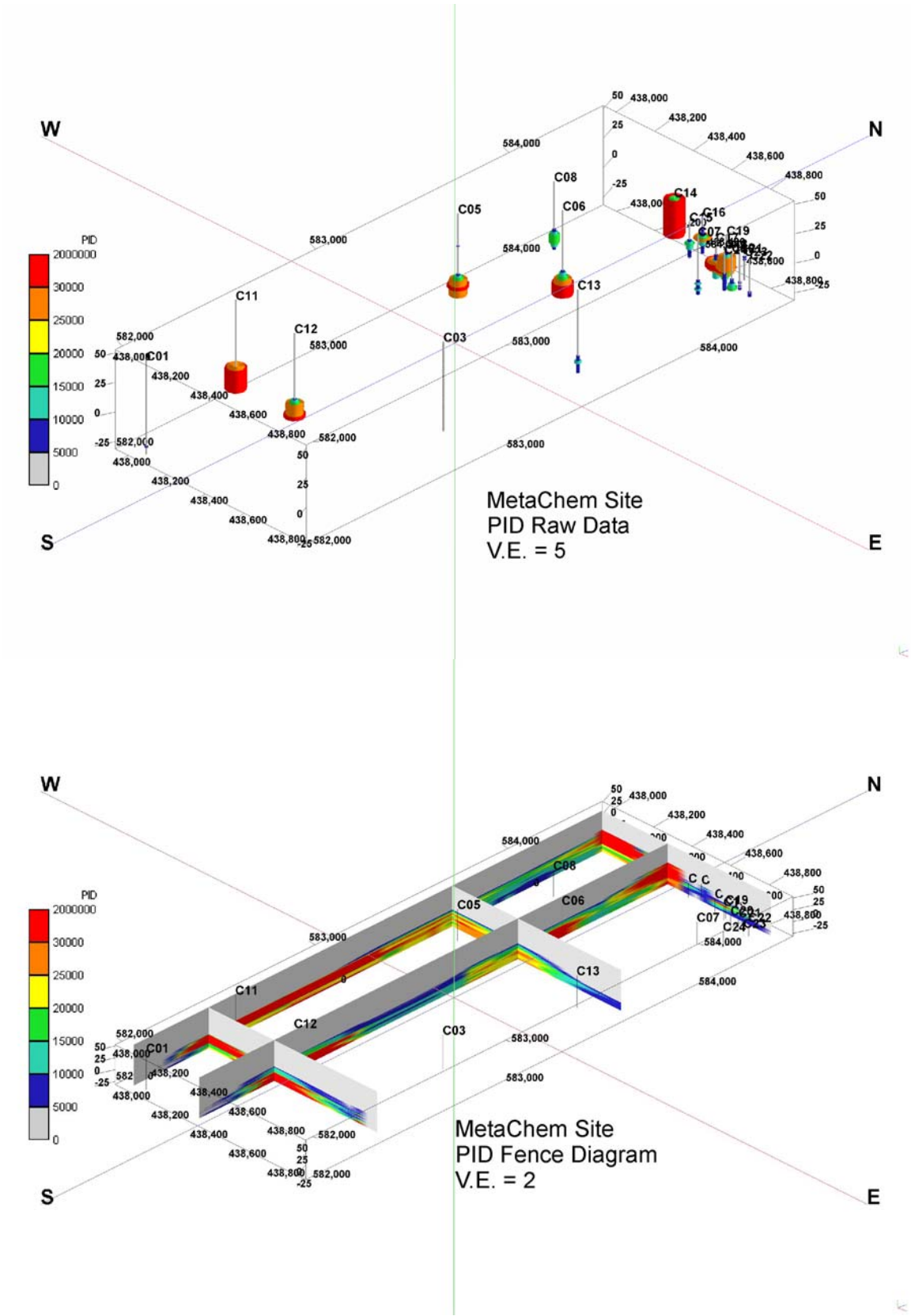


Figure 2 Raw PID Data (top) and Interpreted Contamination Fence Diagram (bottom)

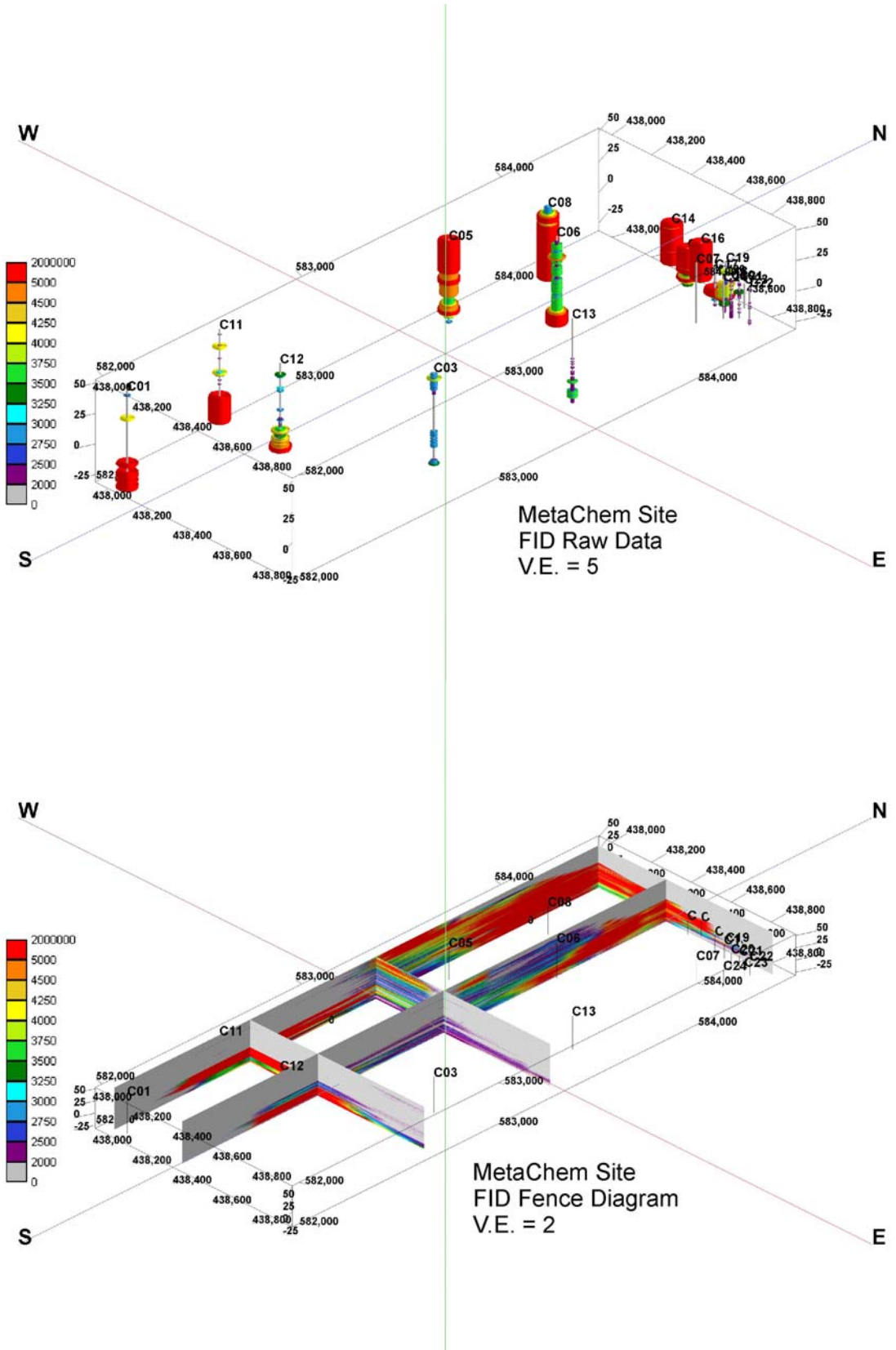


Figure 3 Raw FID Data (top) and Interpreted Contamination Fence Diagram (bottom)

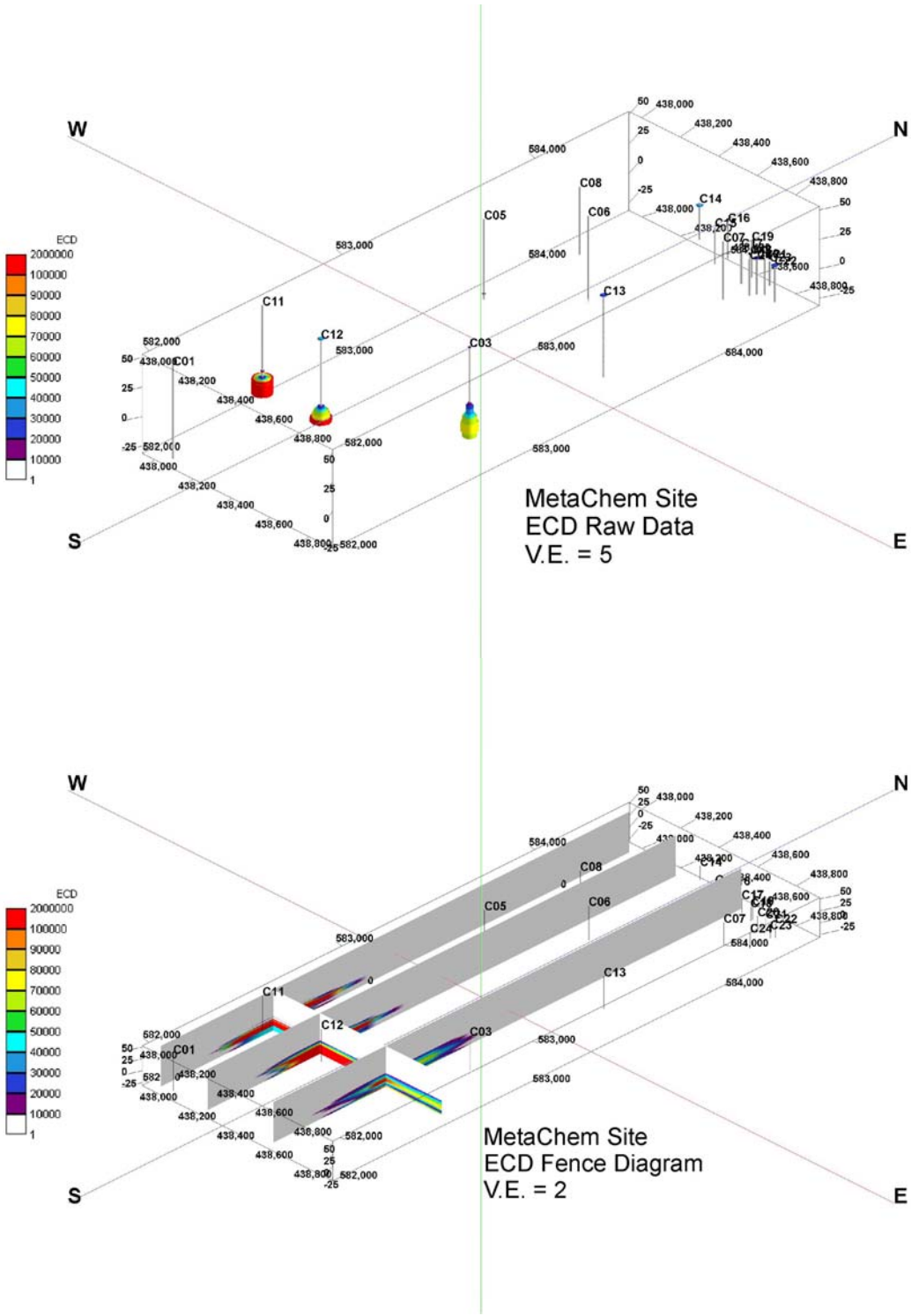


Figure 4 Raw ECD Data (top) and Interpreted Contamination Fence Diagram (bottom)

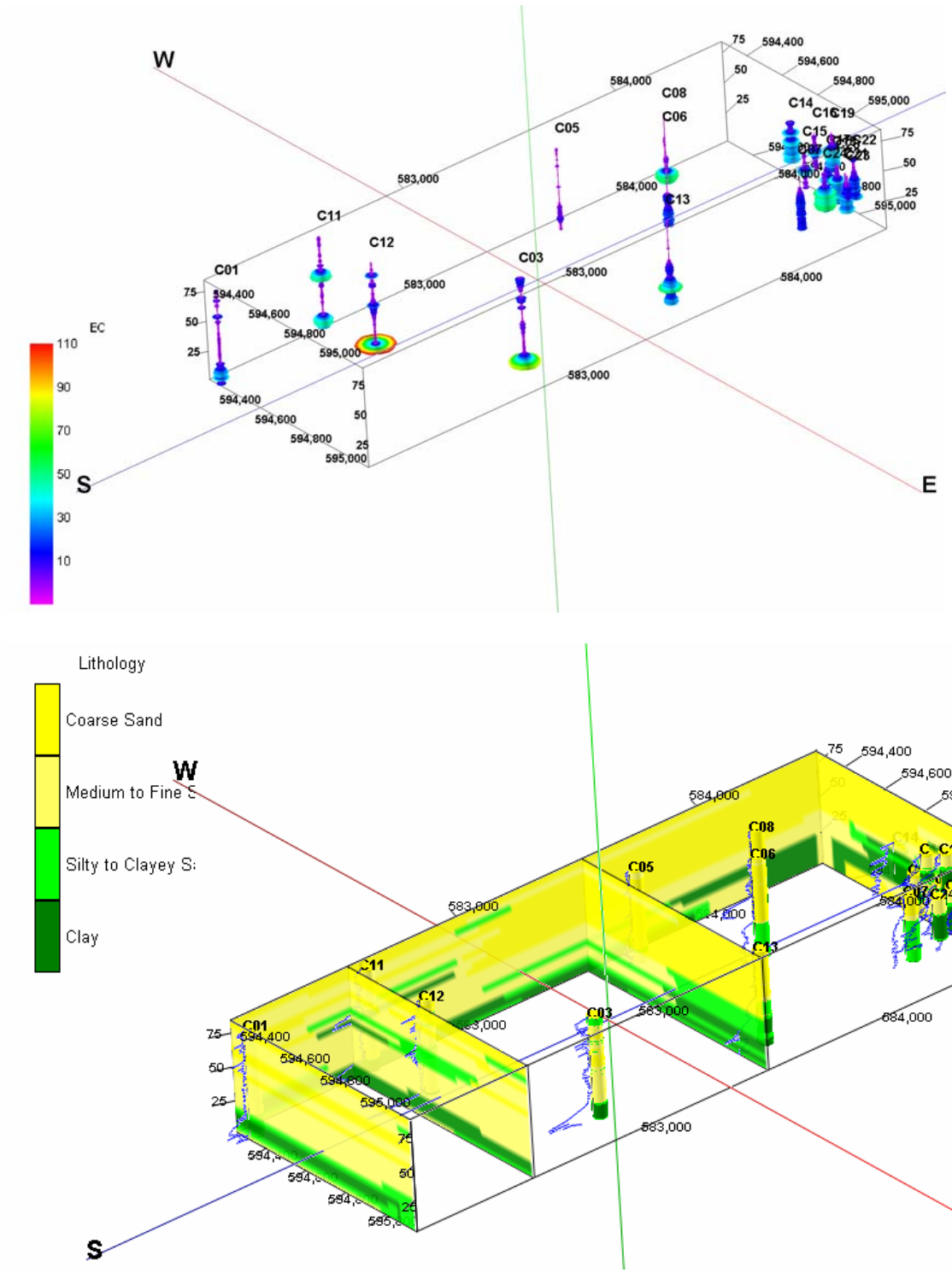
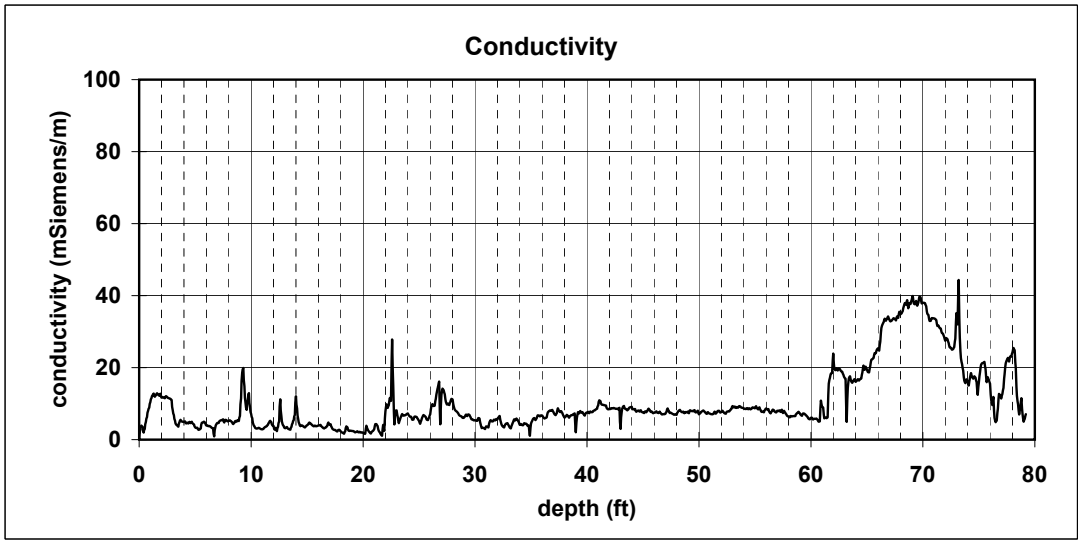
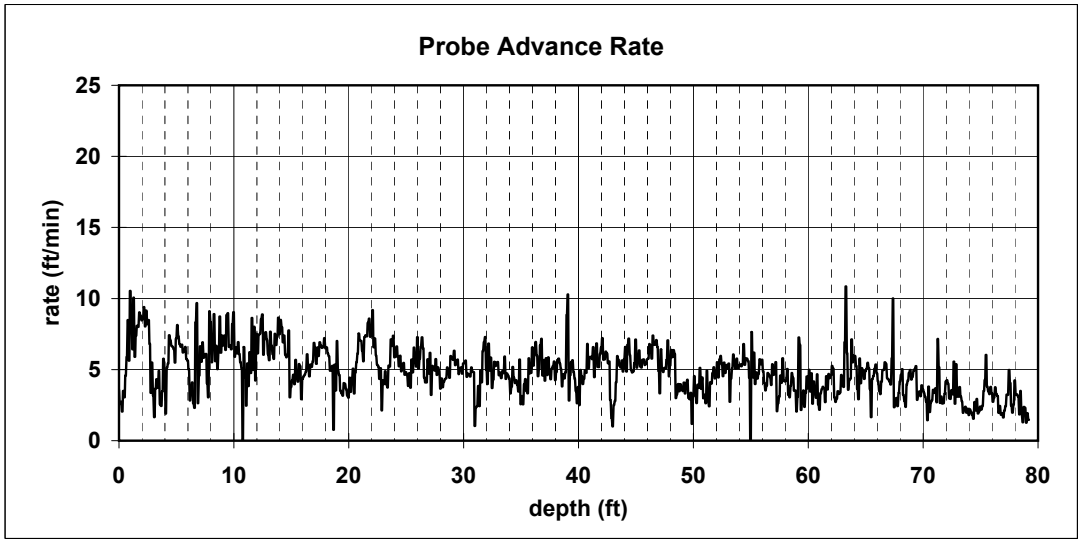
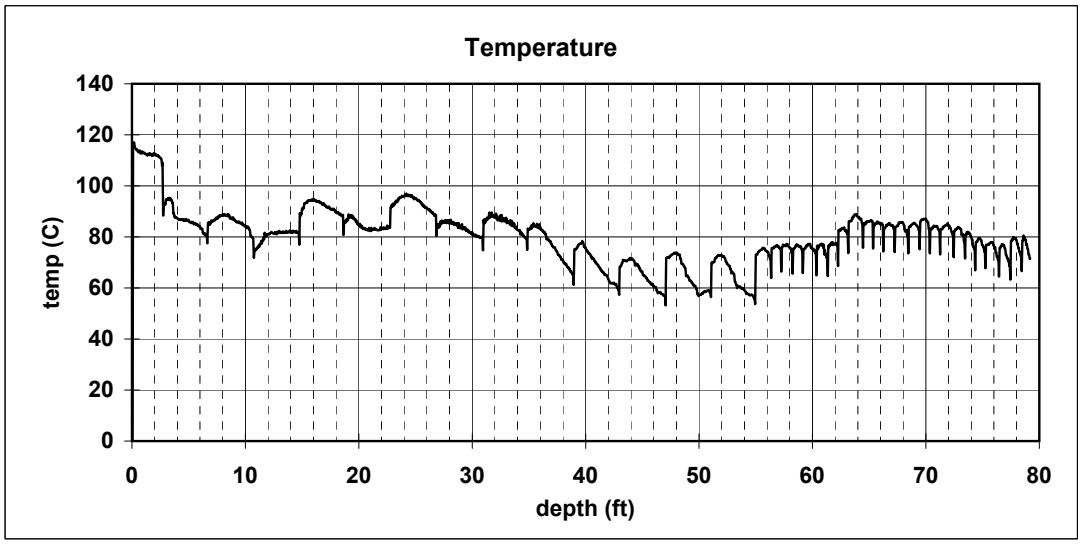
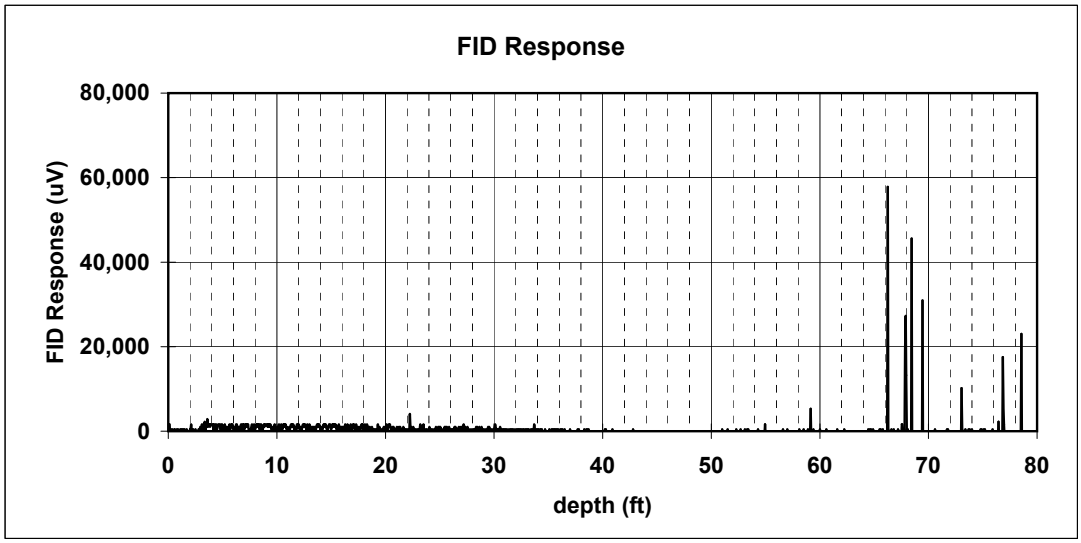


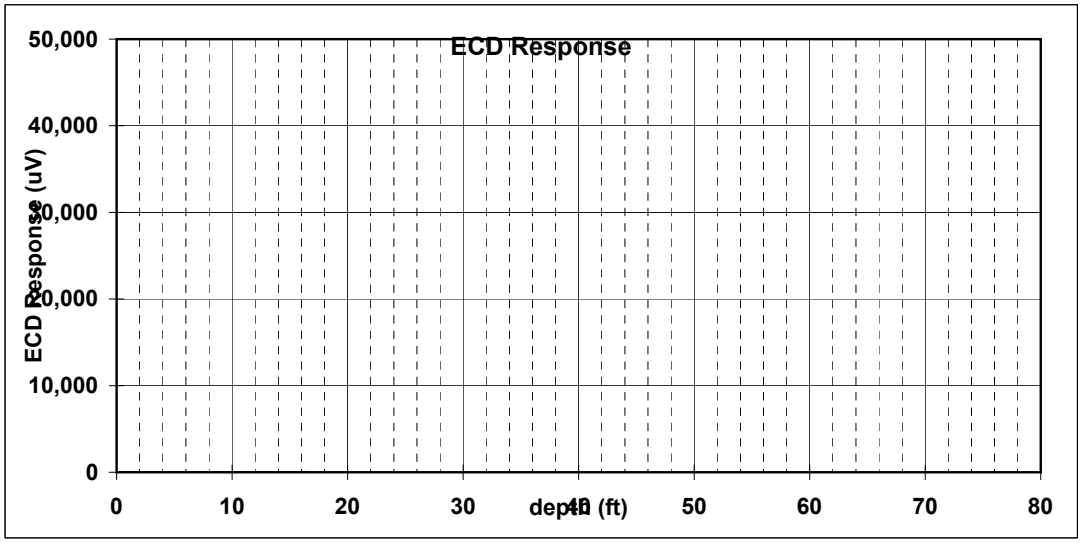
Figure 5 Raw EC Data (top) and Interpreted Lithology Fence Diagram (bottom)

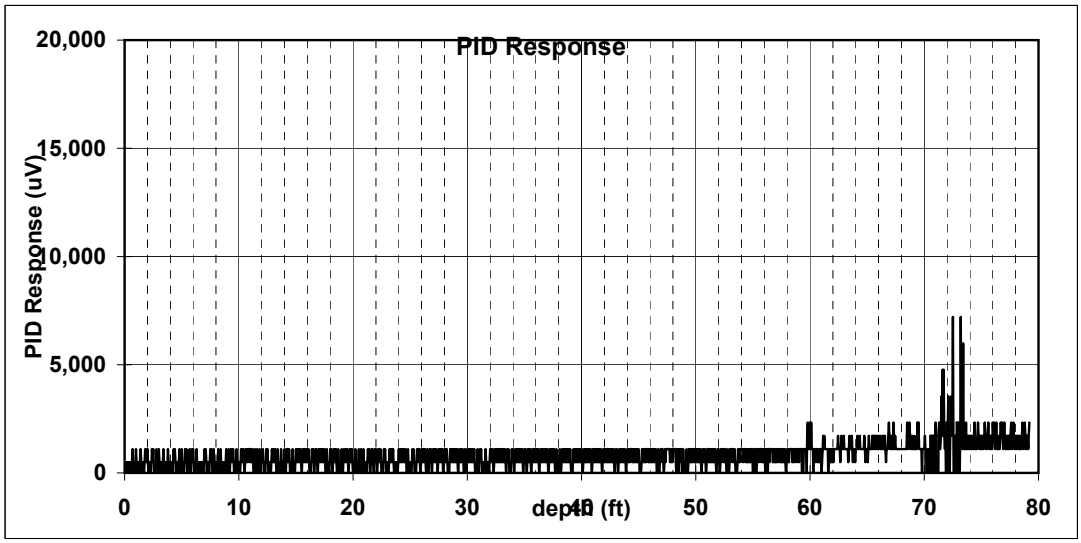

Conductivity
conductivity (mSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
depth (ft)

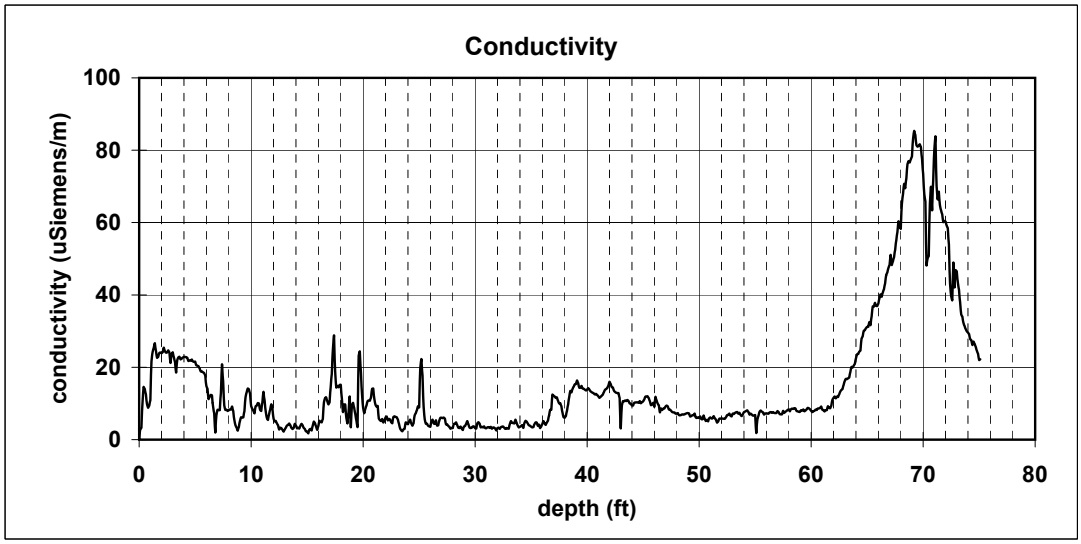

Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
depth (ft)

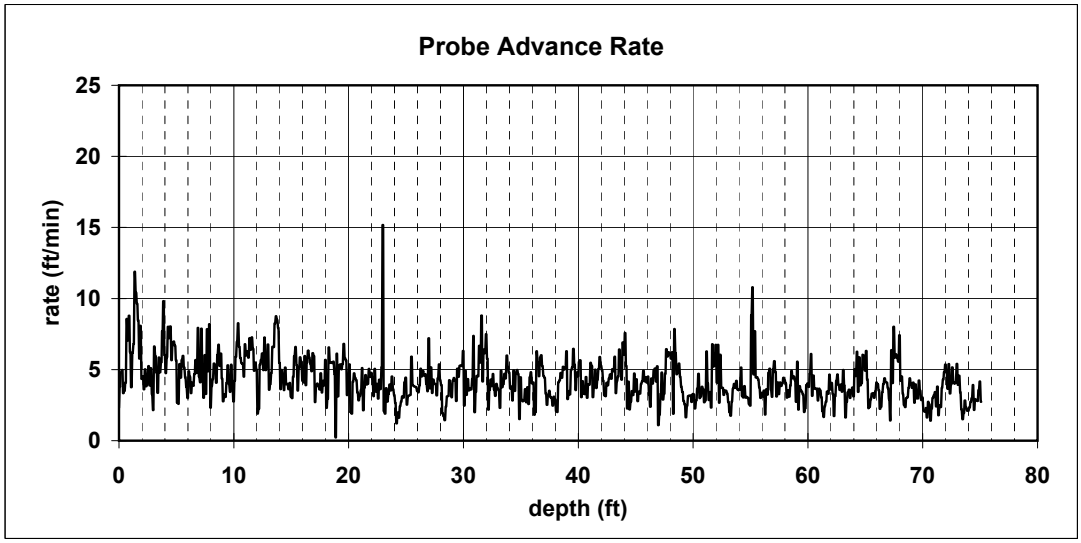

Temperature
temp (C)
140
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
depth (ft)

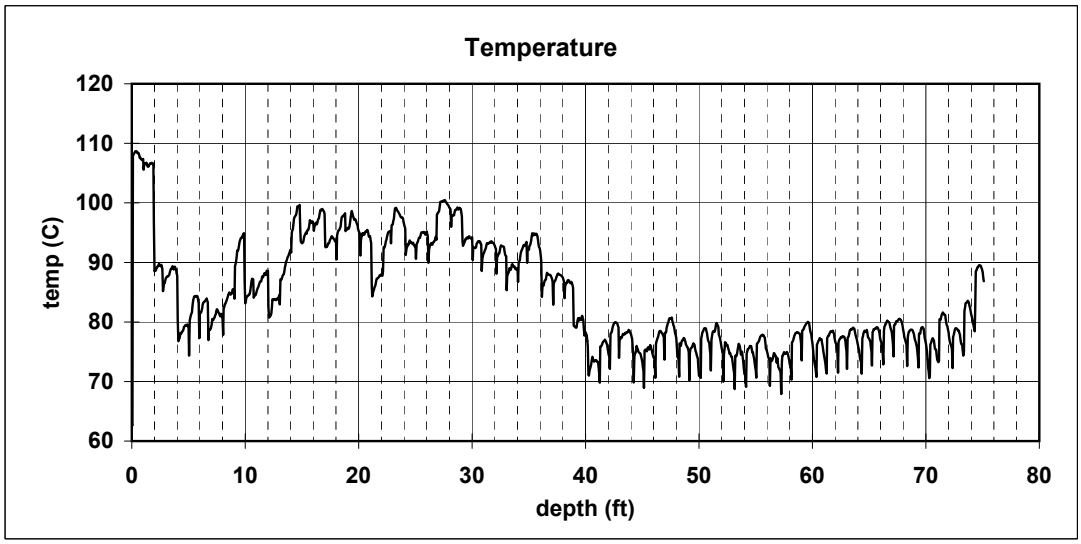

FID Response
FID Response (uV)
80,000
60,000
40,000
20,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

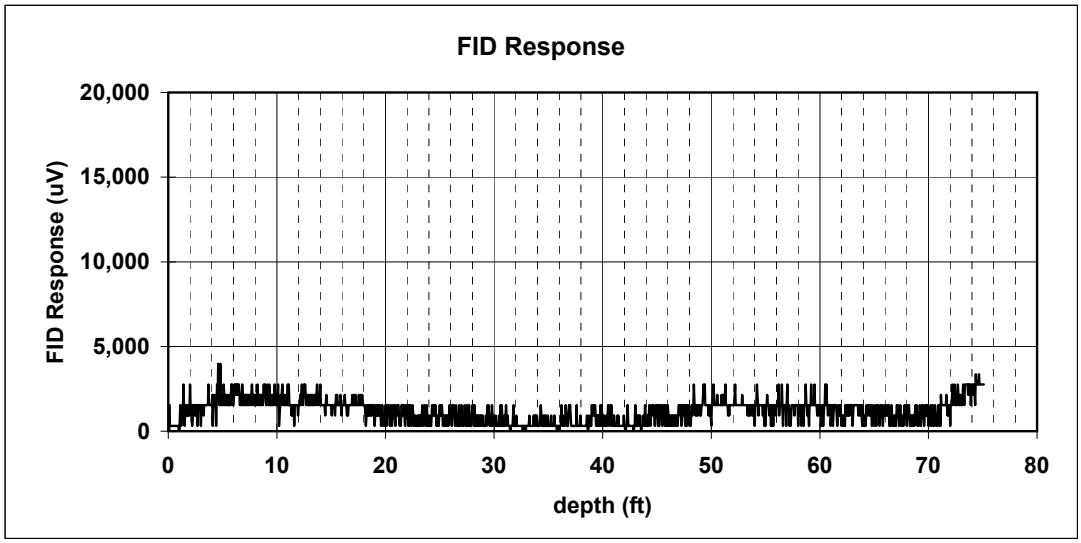

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

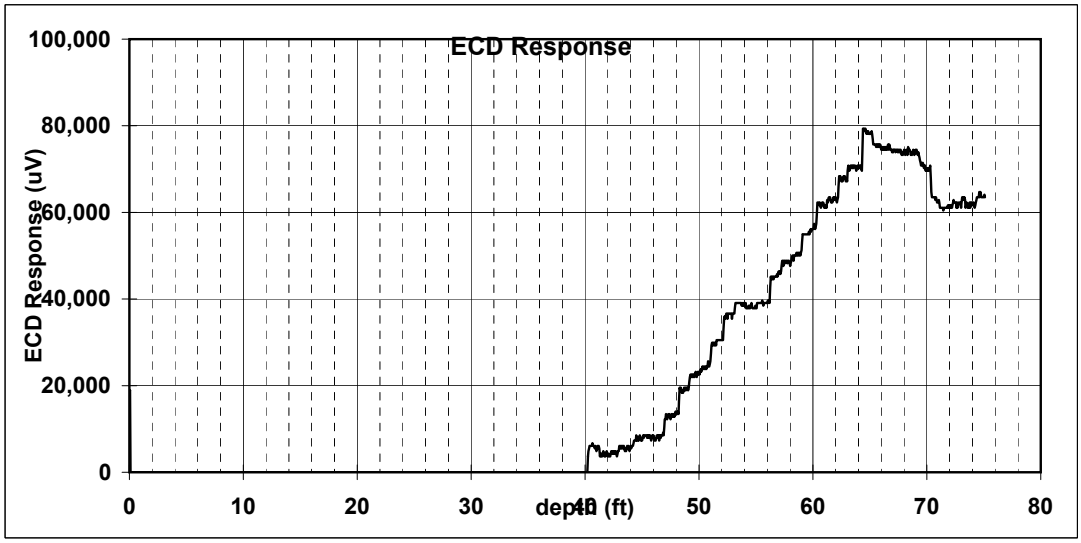

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

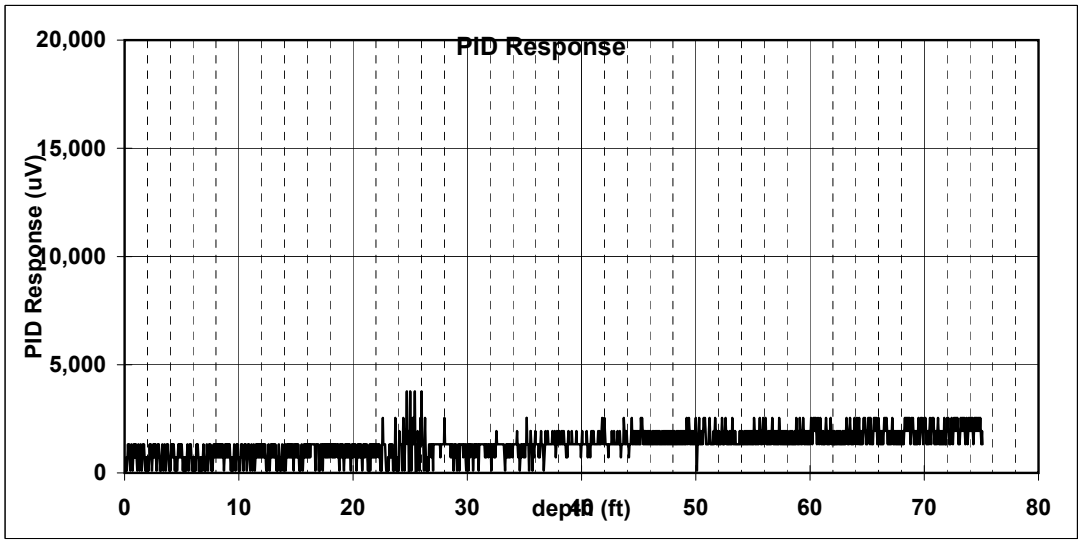

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
depth (ft)

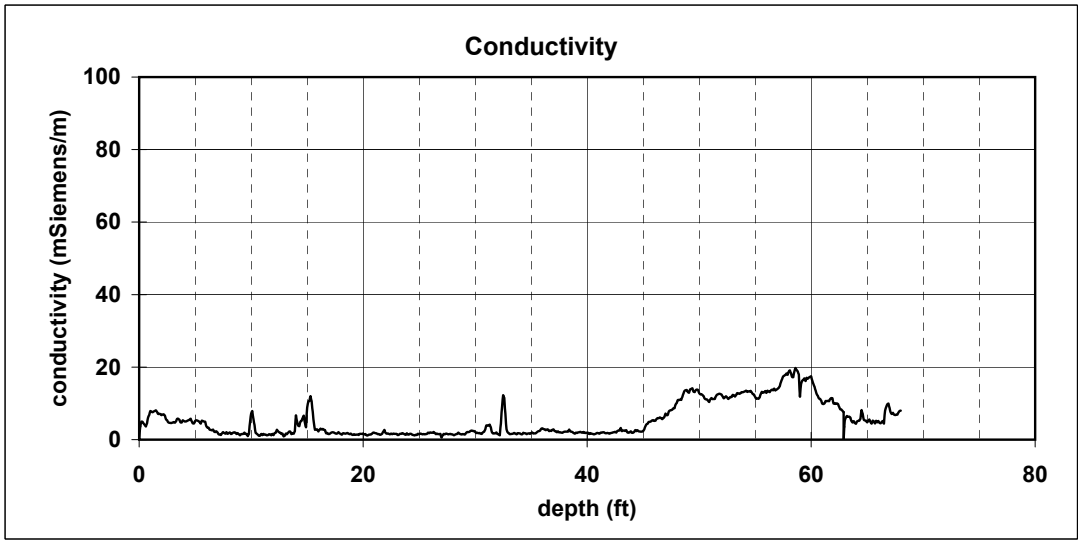

Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
depth (ft)

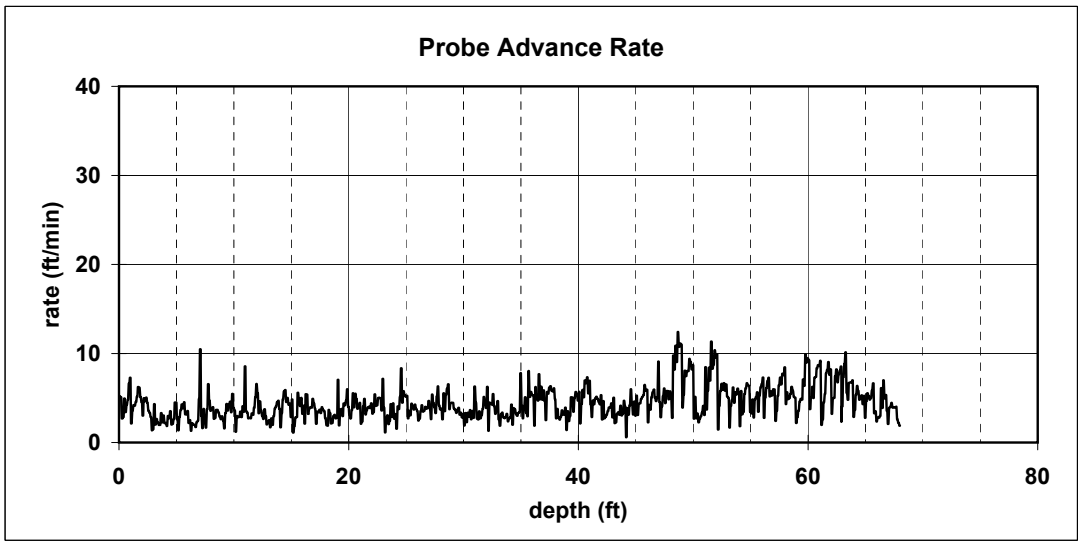

Temperature
temp (C)
120
110
100
90
80
70
60
0
10
20
30
40
50
60
70
80
depth (ft)

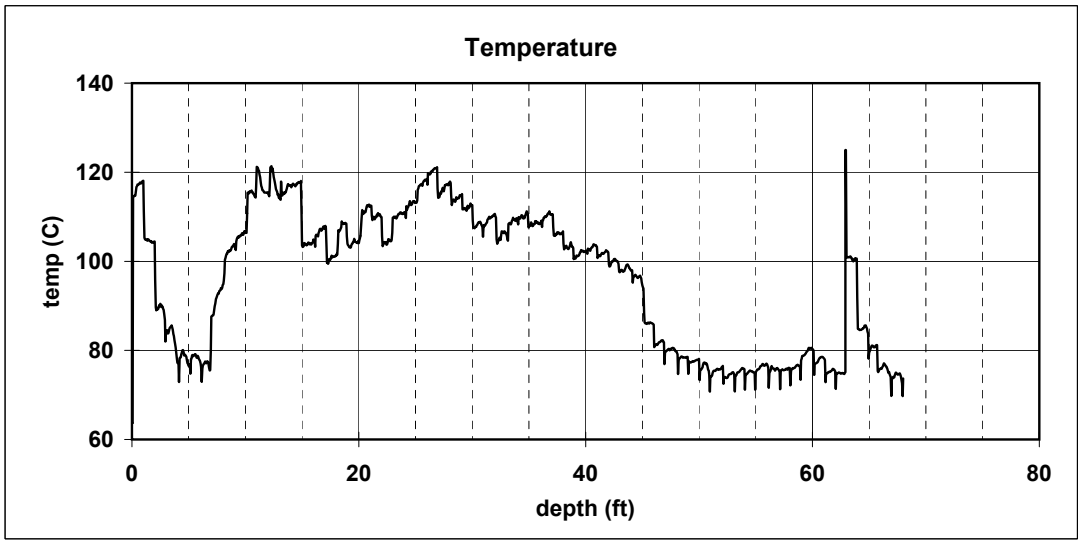

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

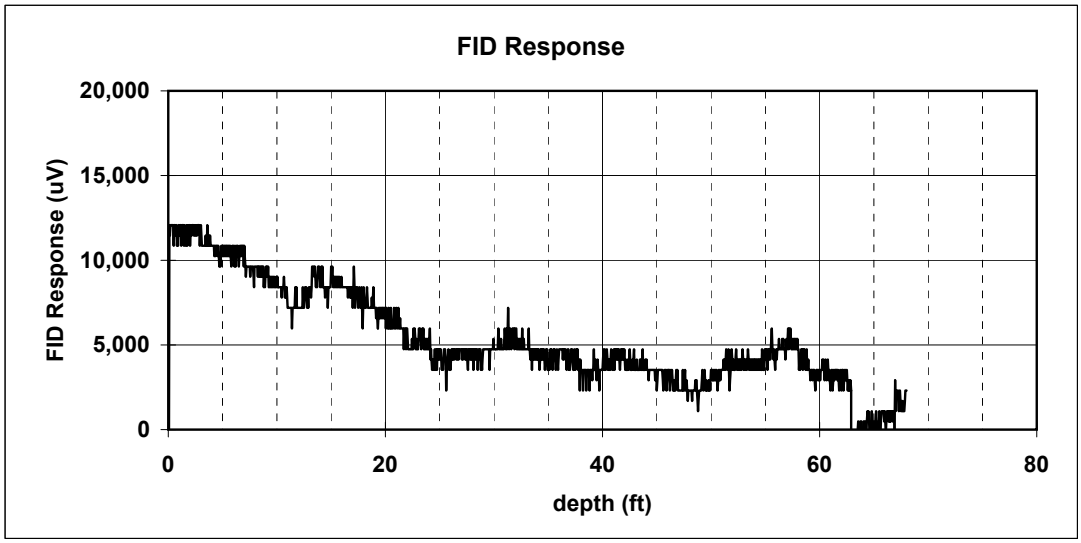

ECD Response
ECD Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

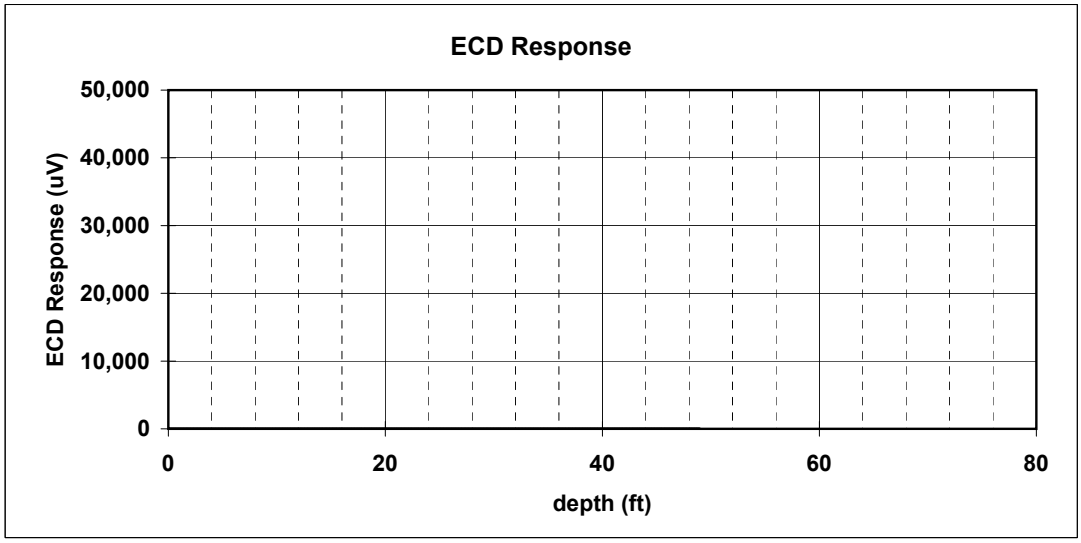

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

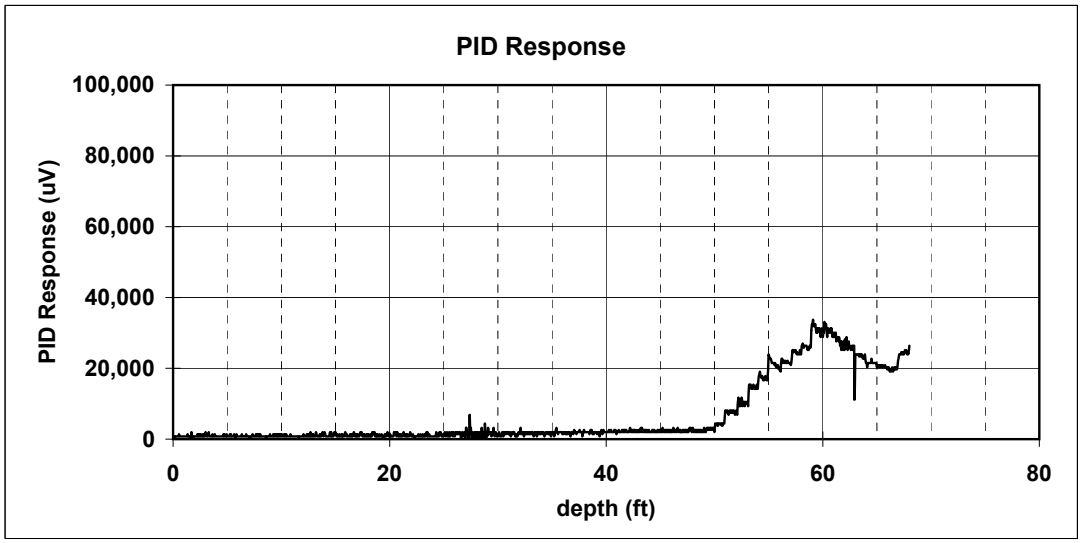

Conductivity
conductivity (mSiemens/m)
100
80
60
40
20
0
0
20
40
60
80
depth (ft)

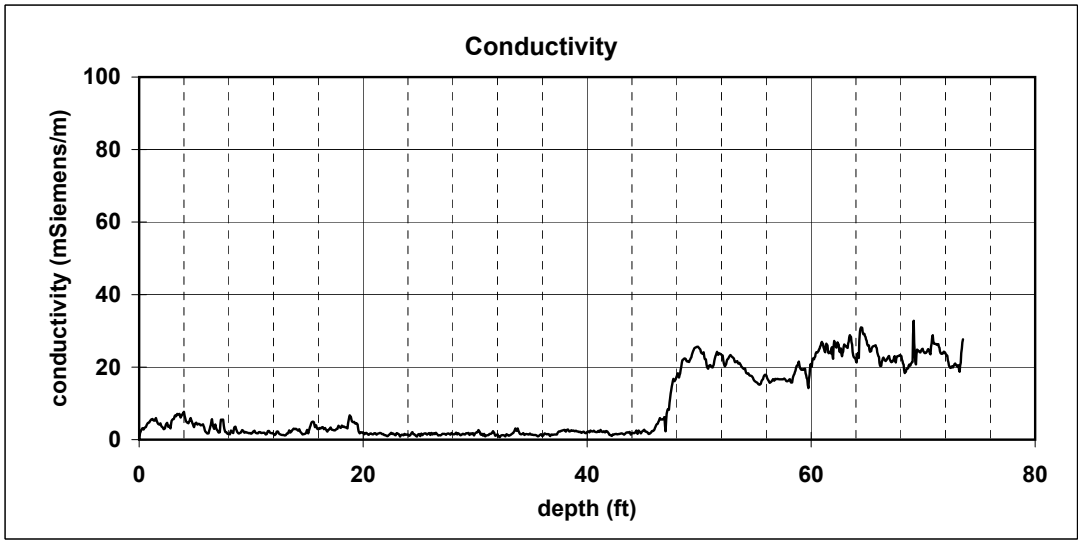

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
20
40
60
80
depth (ft)

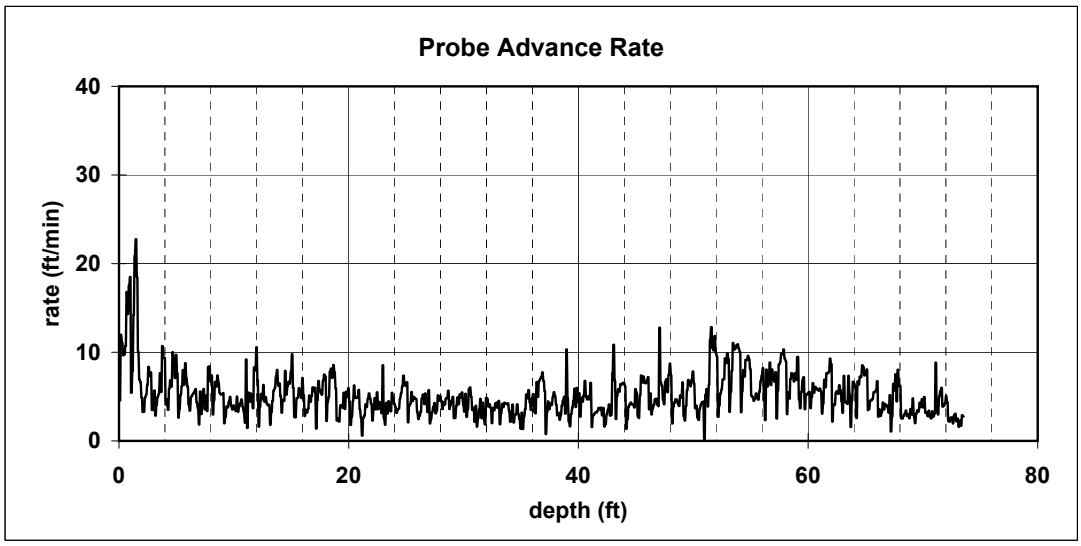

Temperature
temp (C)
140
120
100
80
60
0
20
40
60
80
depth (ft)

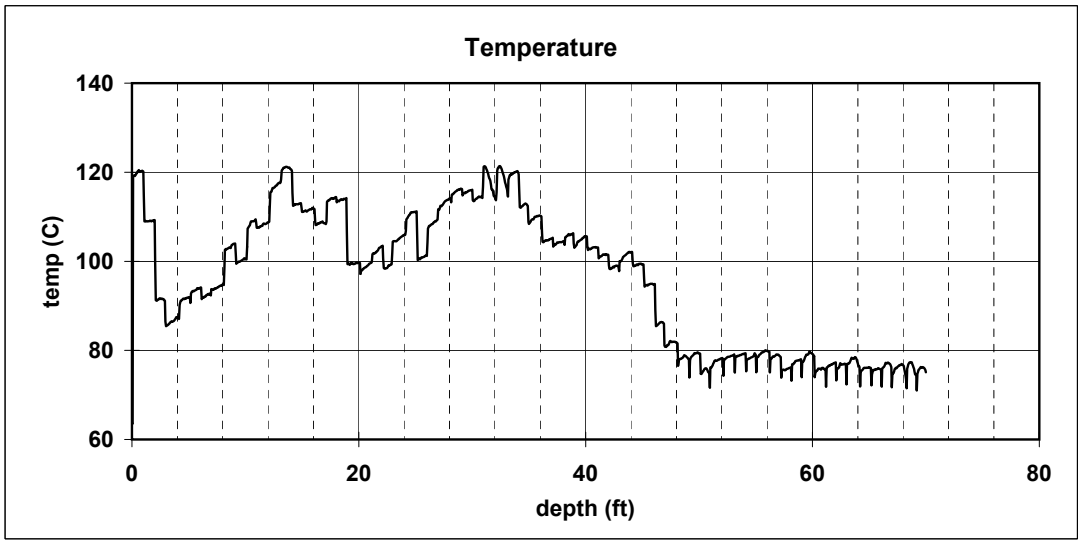

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
20
40
60
80
depth (ft)

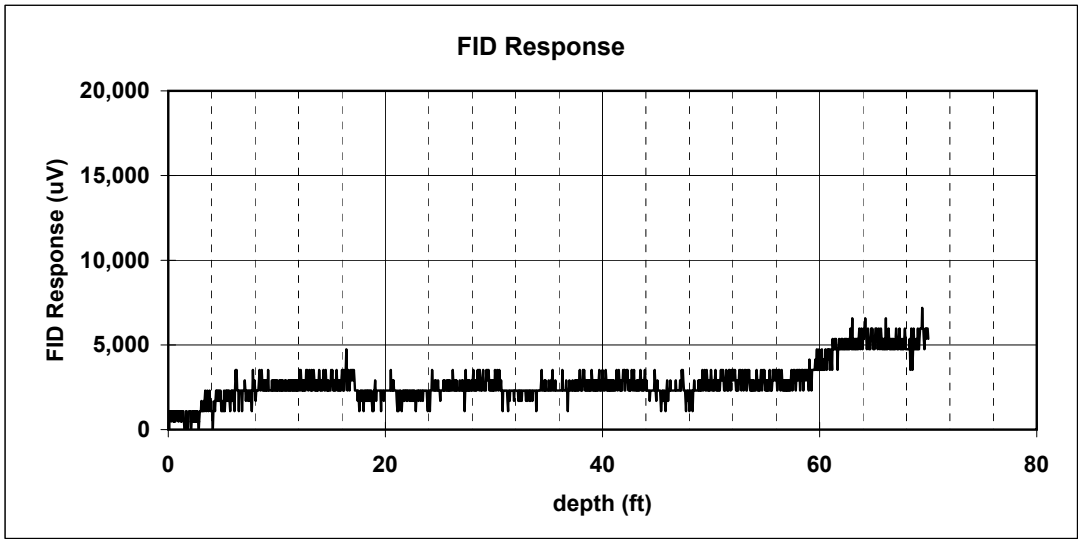

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
20
40
60
80
depth (ft)

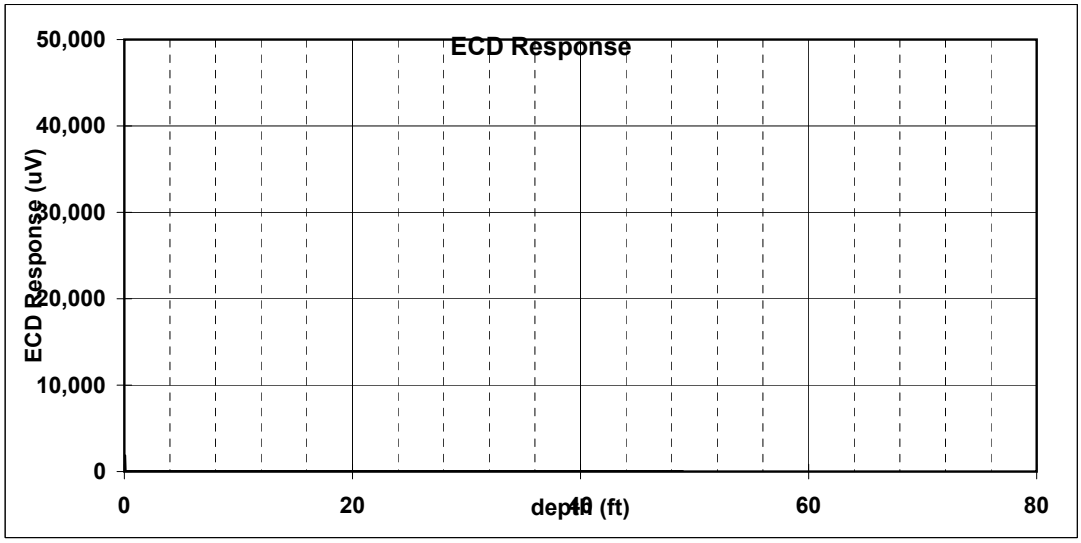

PID Response
PID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
20
40
60
80
depth (ft)

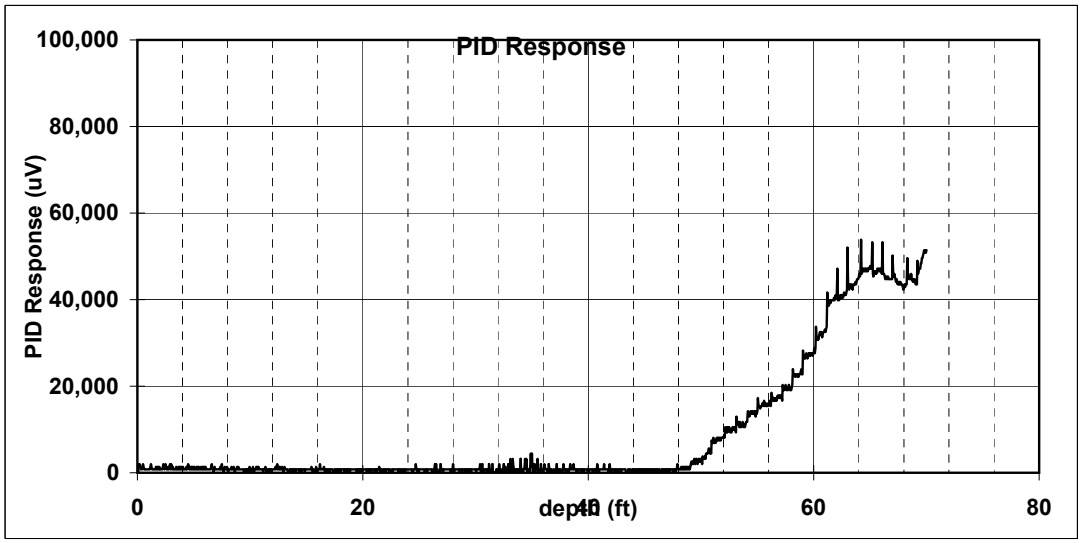

Conductivity
conductivity (mSiemens/m)
100
80
60
40
20
0
0
20
40
60
80
depth (ft)

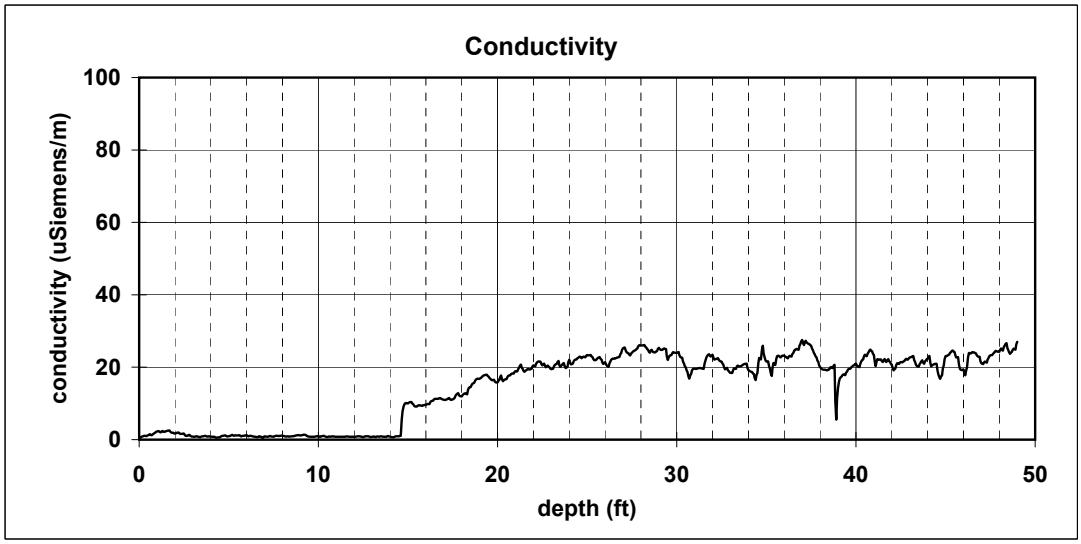

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
20
40
60
80
depth (ft)

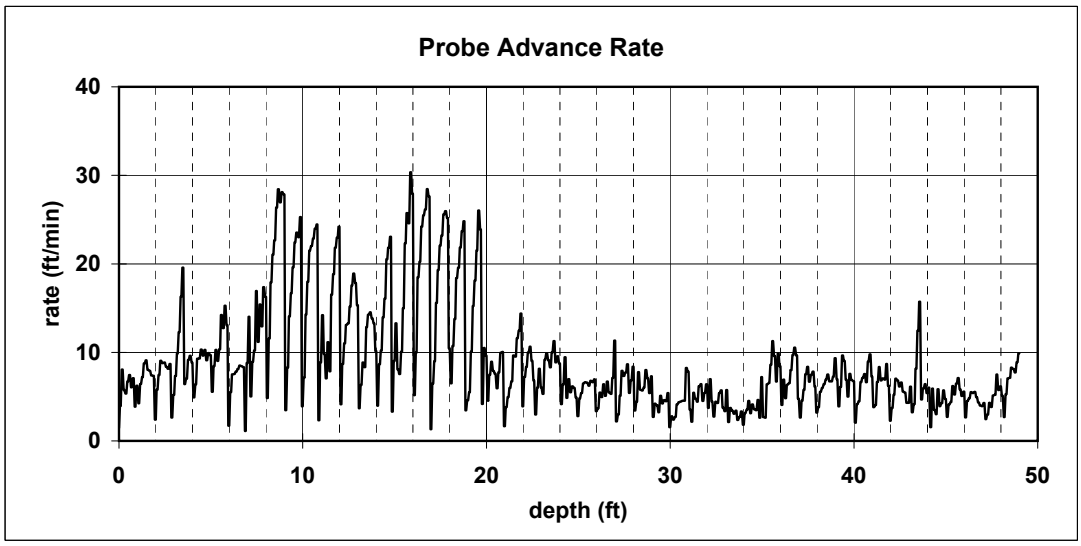

Temperature
temp (C)
140
120
100
80
60
0
20
40
60
80
depth (ft)

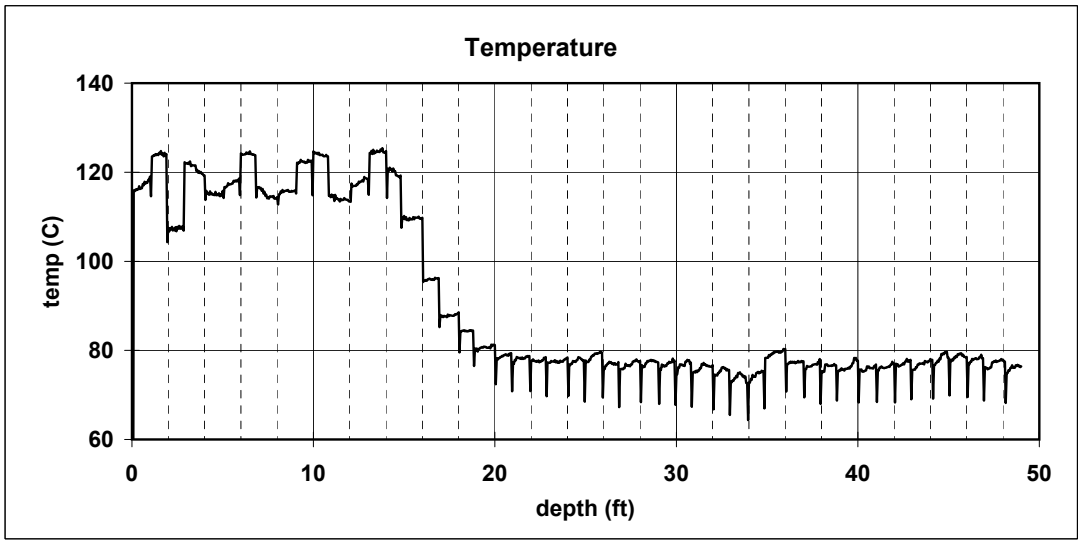

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
20
40
60
80
depth (ft)

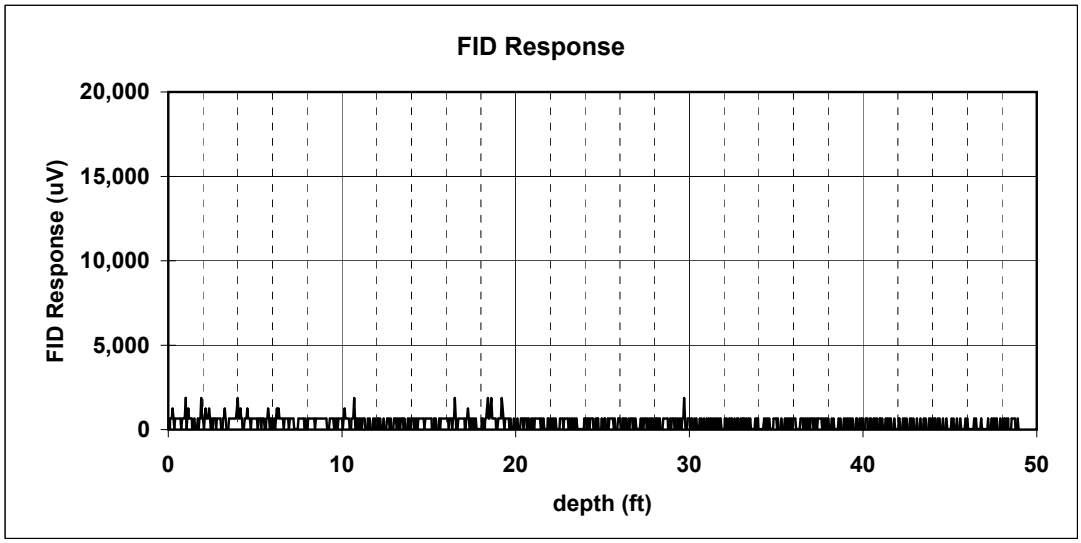

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
20
40
60
80
depth (ft)

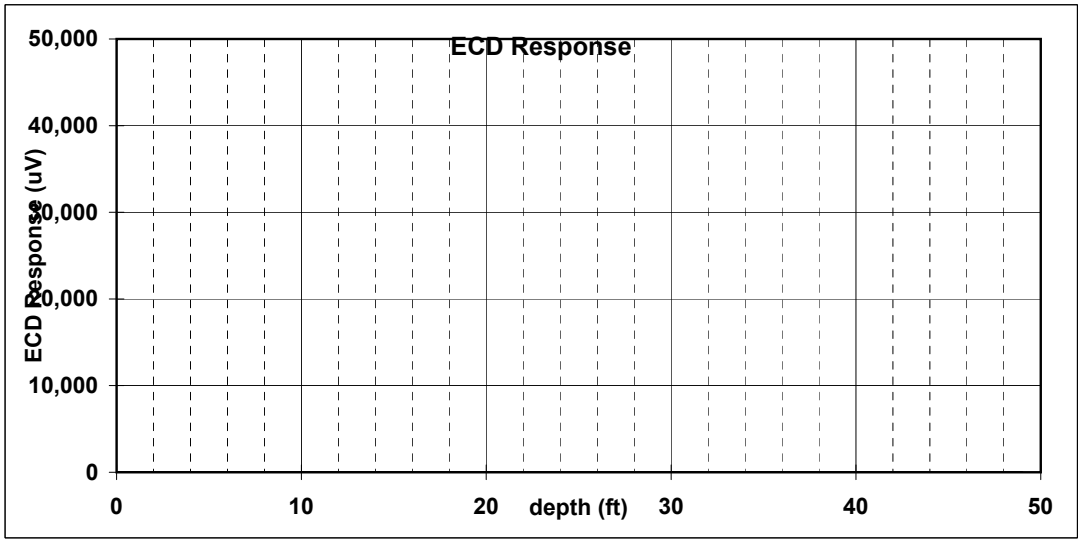

PID Response
PID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
20
40
60
80
depth (ft)

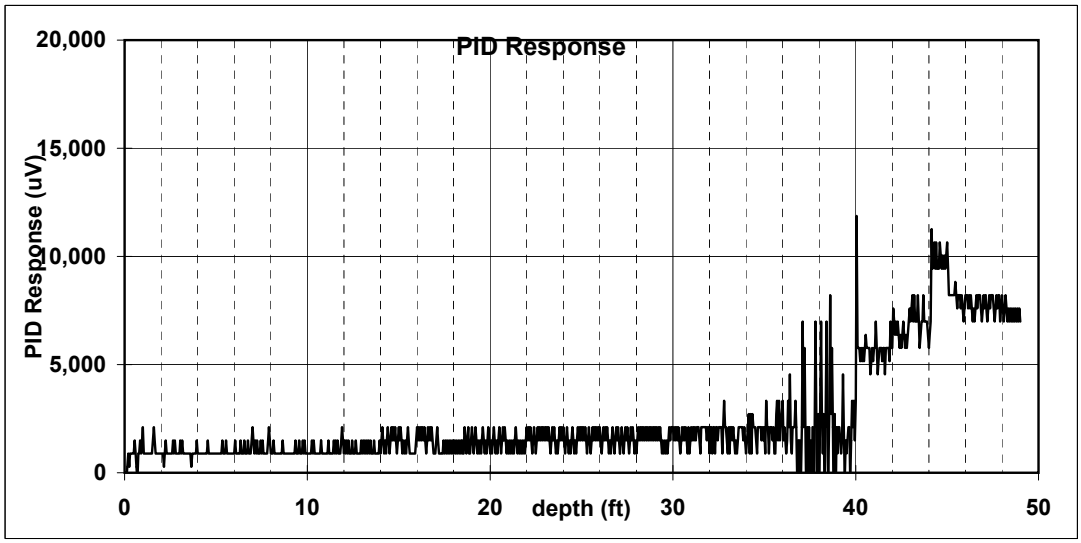

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
50
depth (ft)

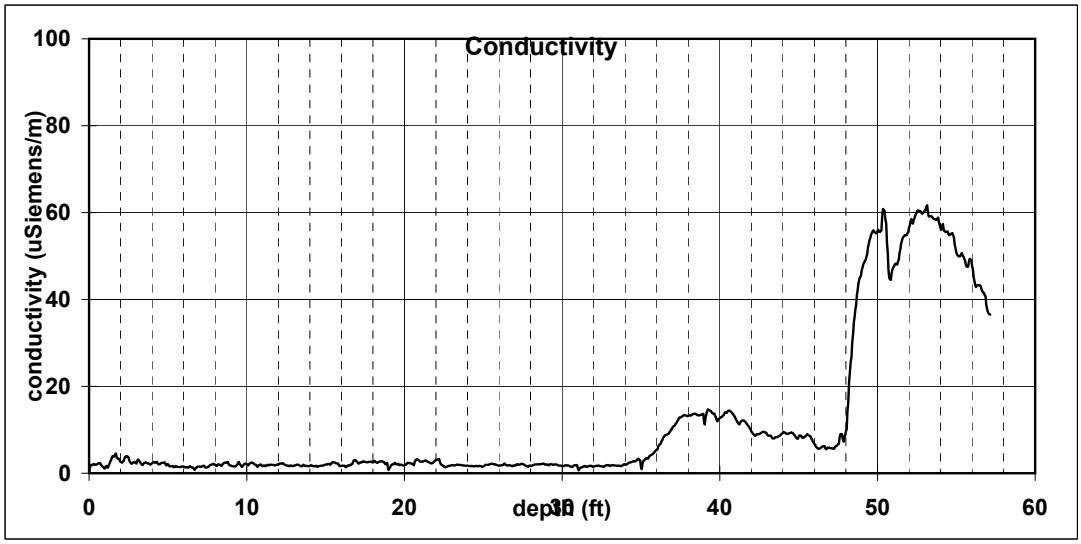

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
50
depth (ft)

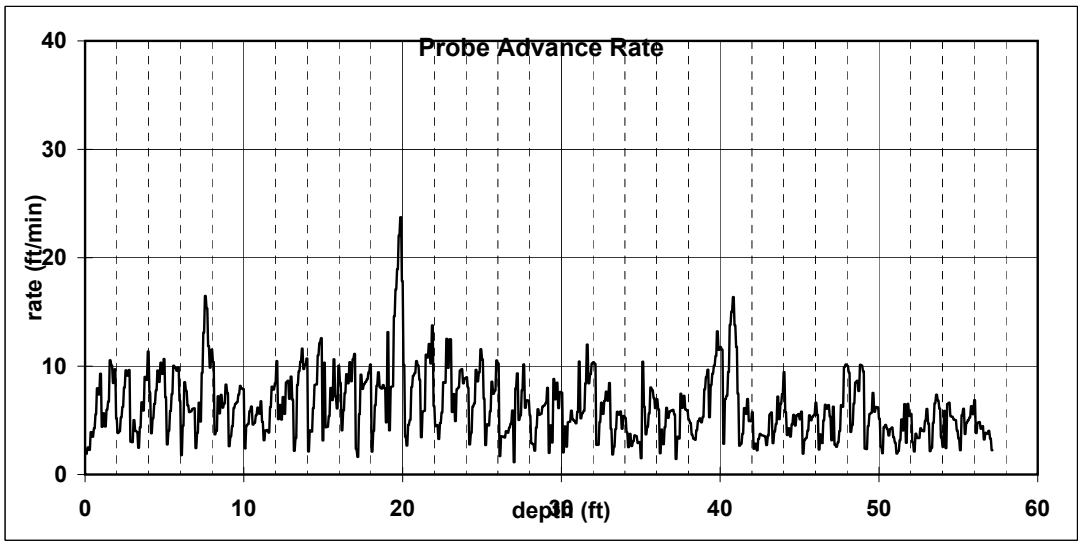

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
50
depth (ft)

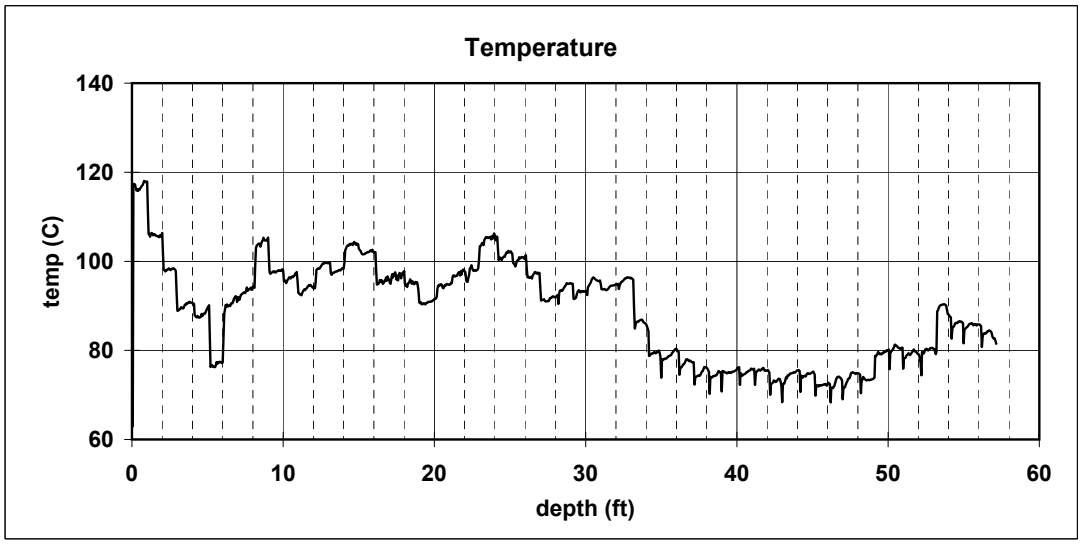

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
depth (ft)

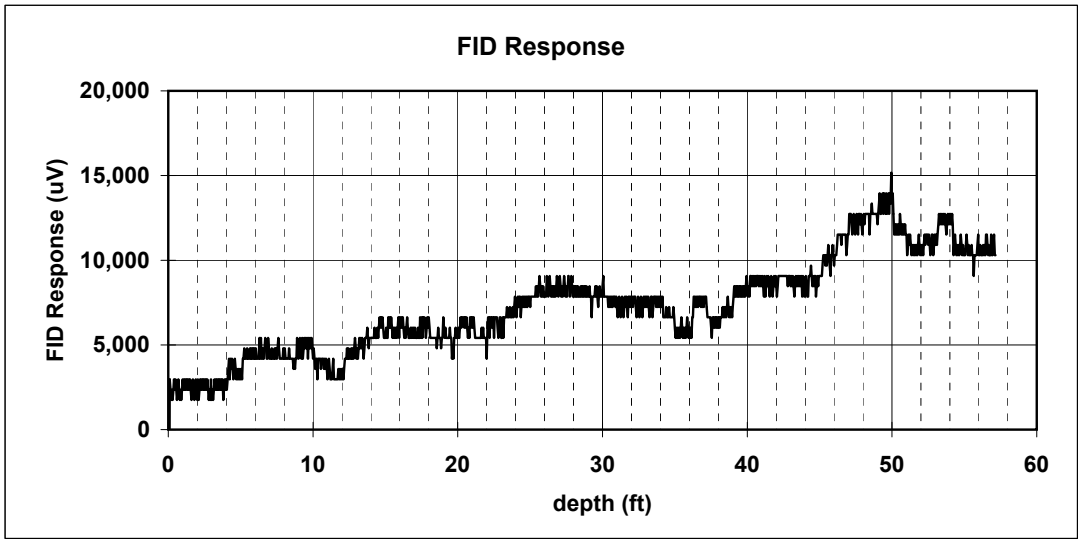

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
depth (ft)
30
40
50

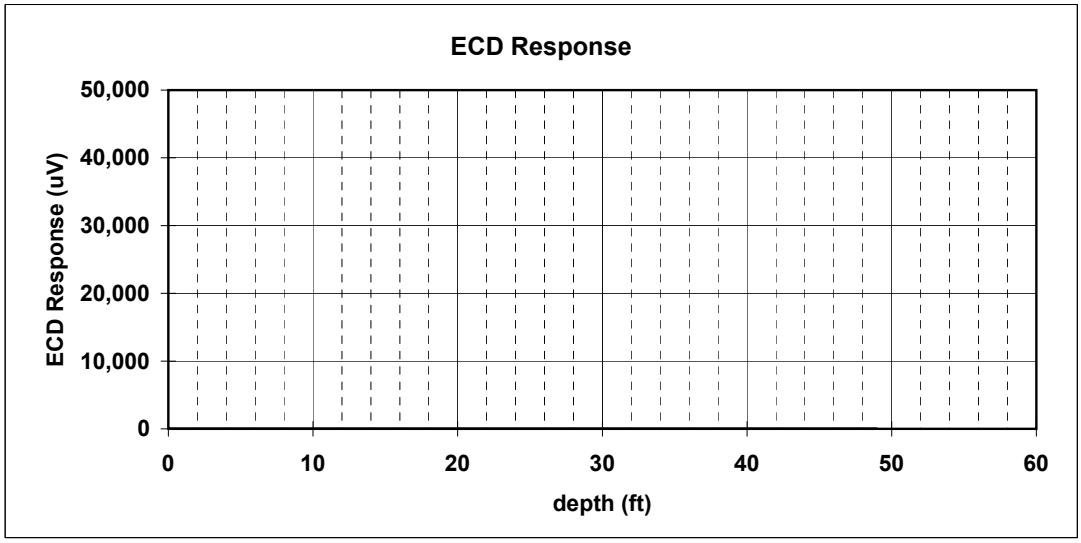

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
depth (ft)
30
40
50

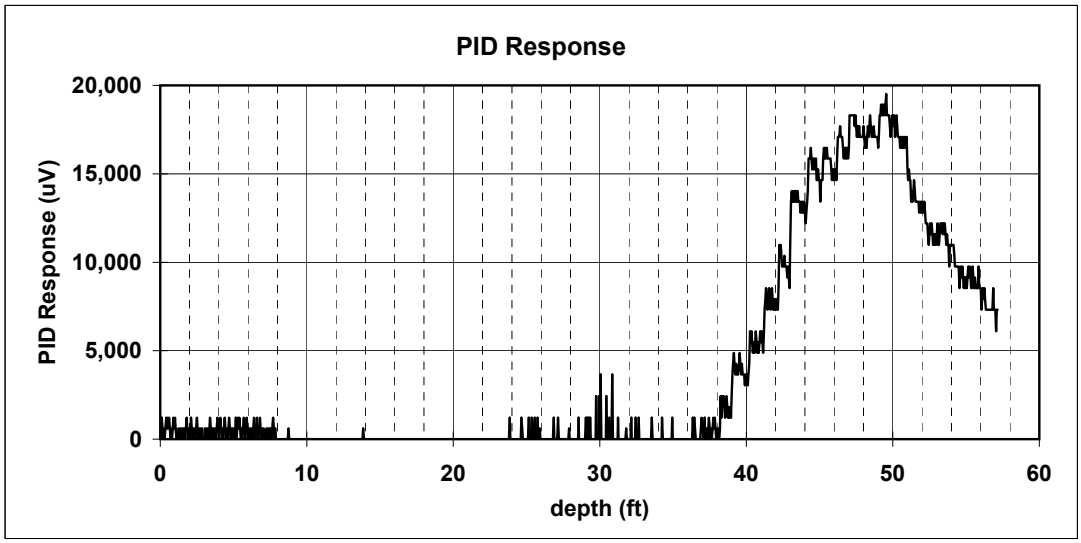

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
50
60
depth (ft)

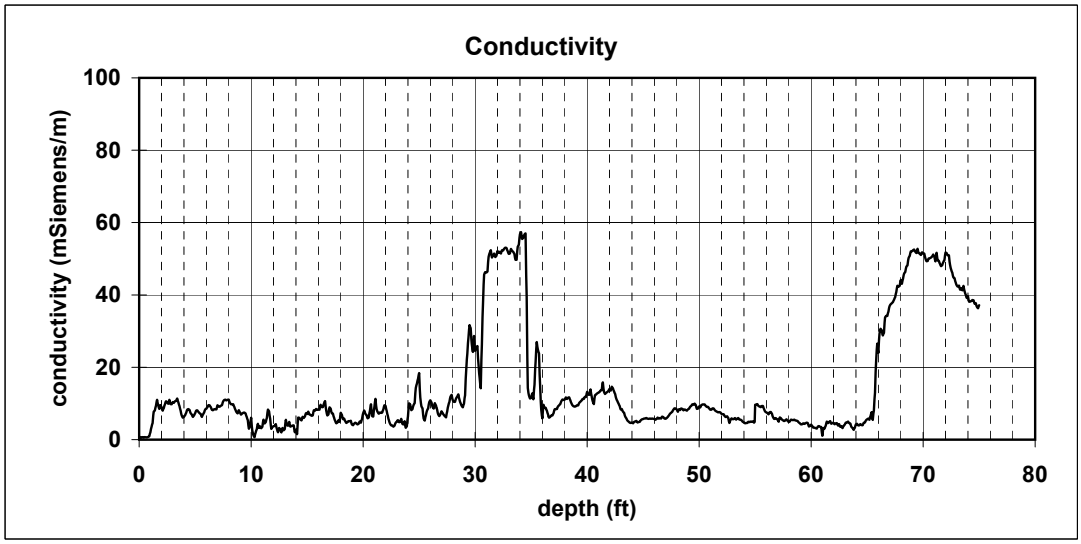

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
50
60
depth (ft)

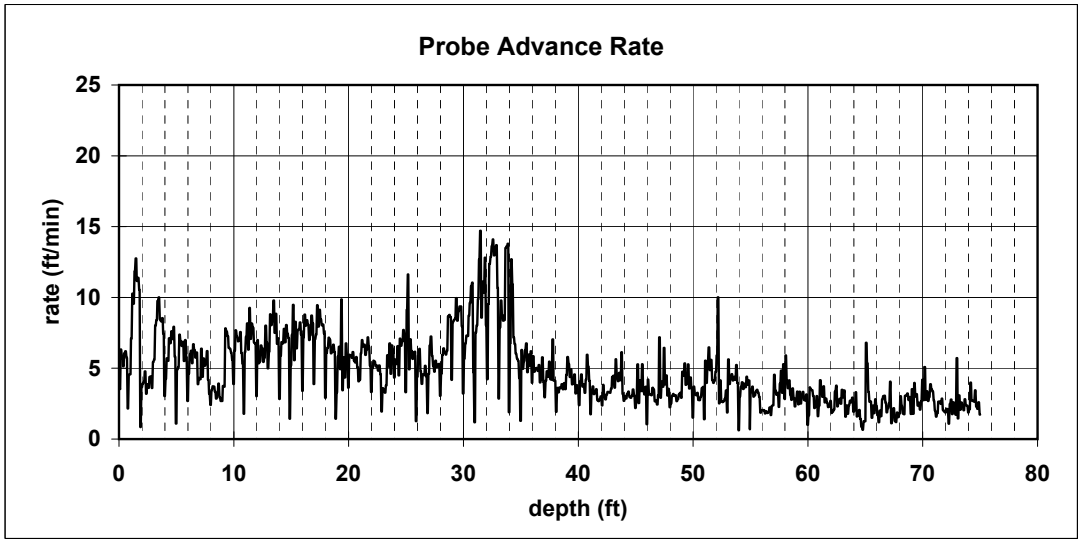

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
50
60
depth (ft)

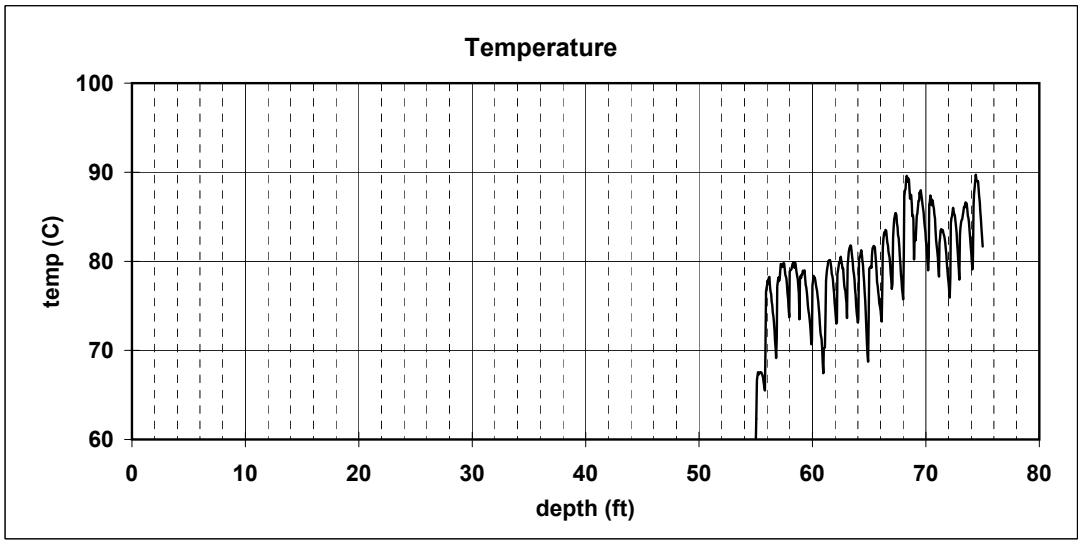

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
depth (ft)

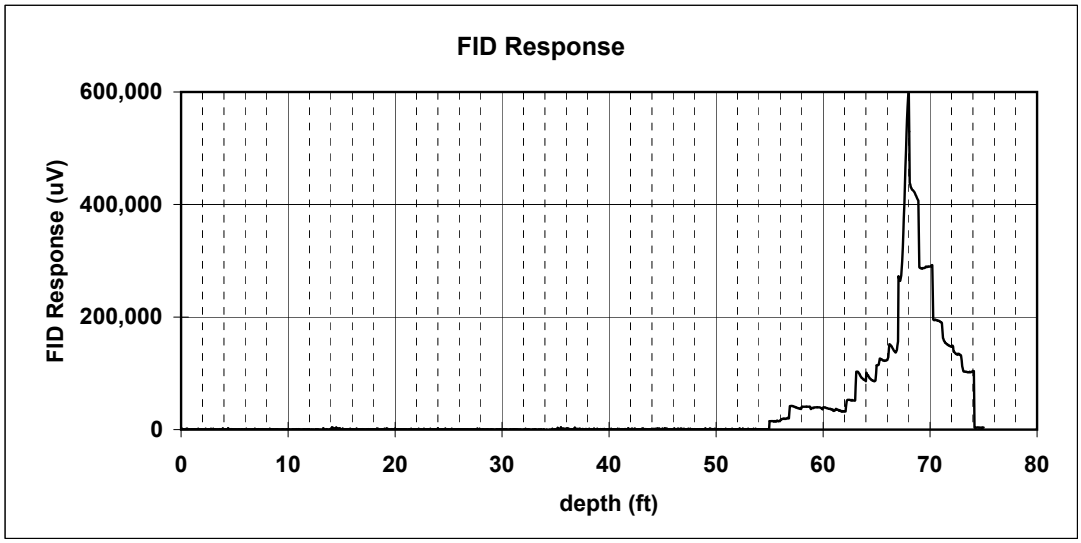

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
50
60
depth (ft)

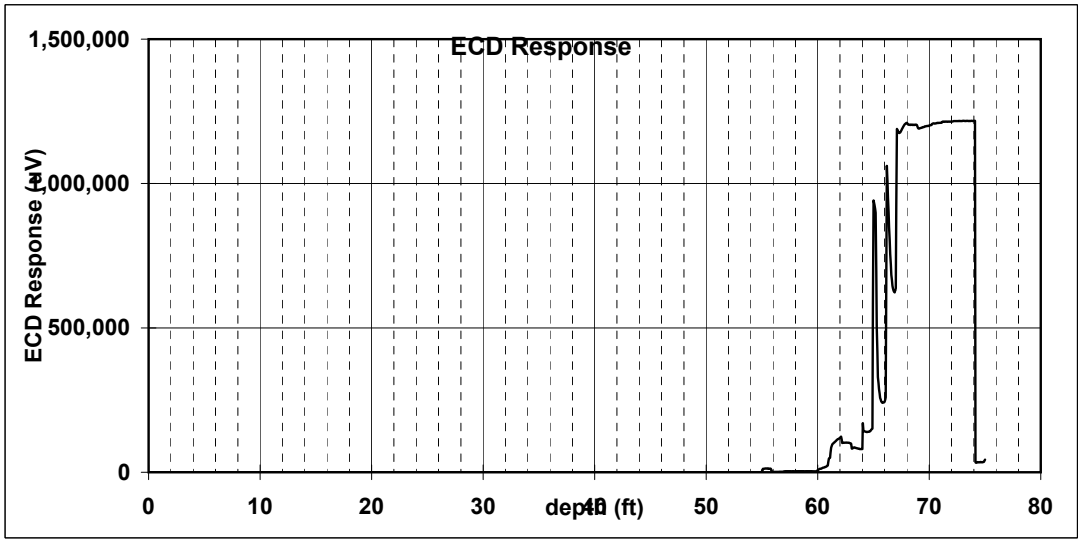

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
depth (ft)

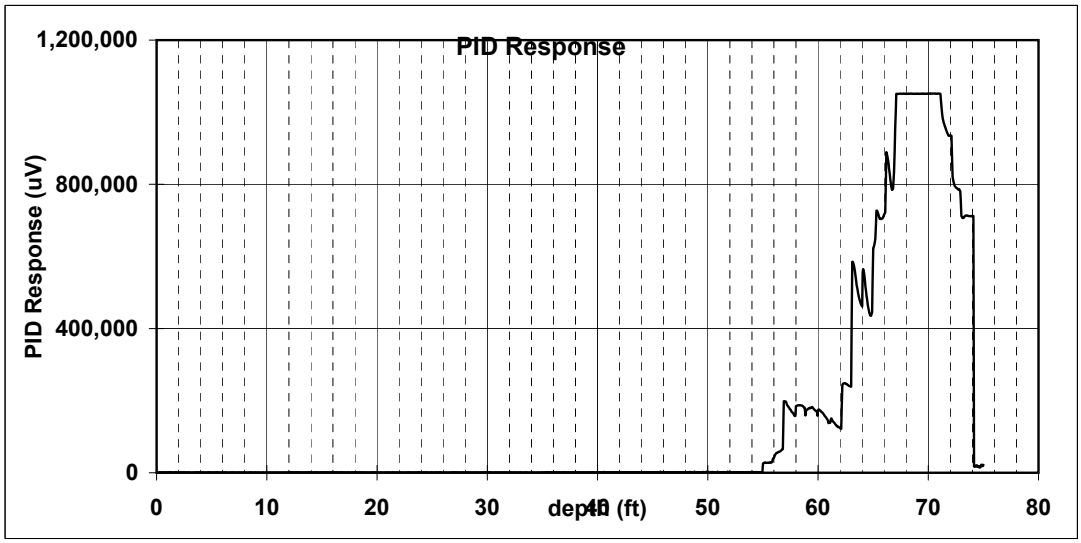

Conductivity
conductivity (mSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
depth (ft)

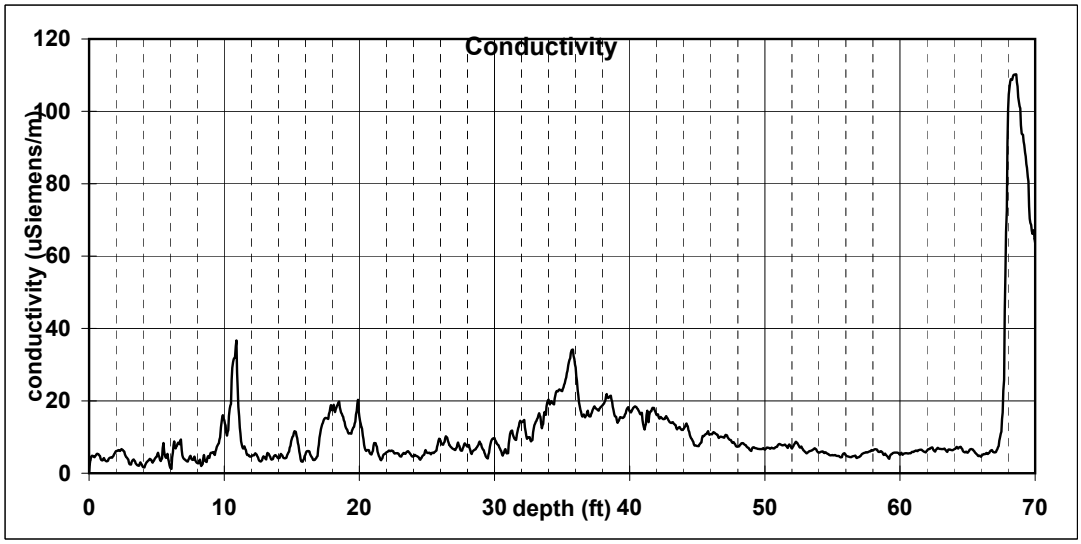

Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
depth (ft)

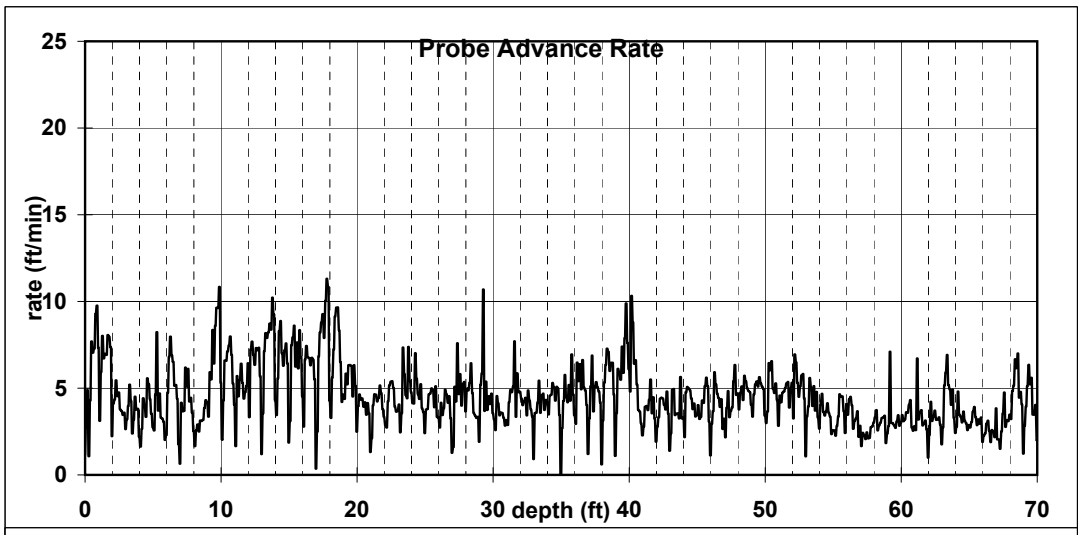

Temperature
temp (C)
100
90
80
70
60
0
10
20
30
40
50
60
70
80
depth (ft)

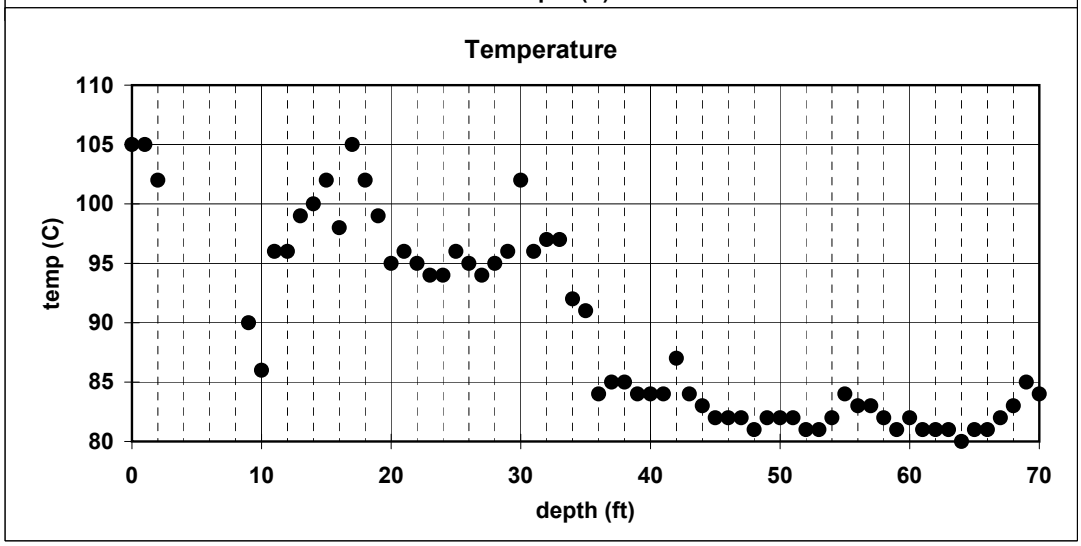

FID Response
FID Response (uV)
600,000
400,000
200,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

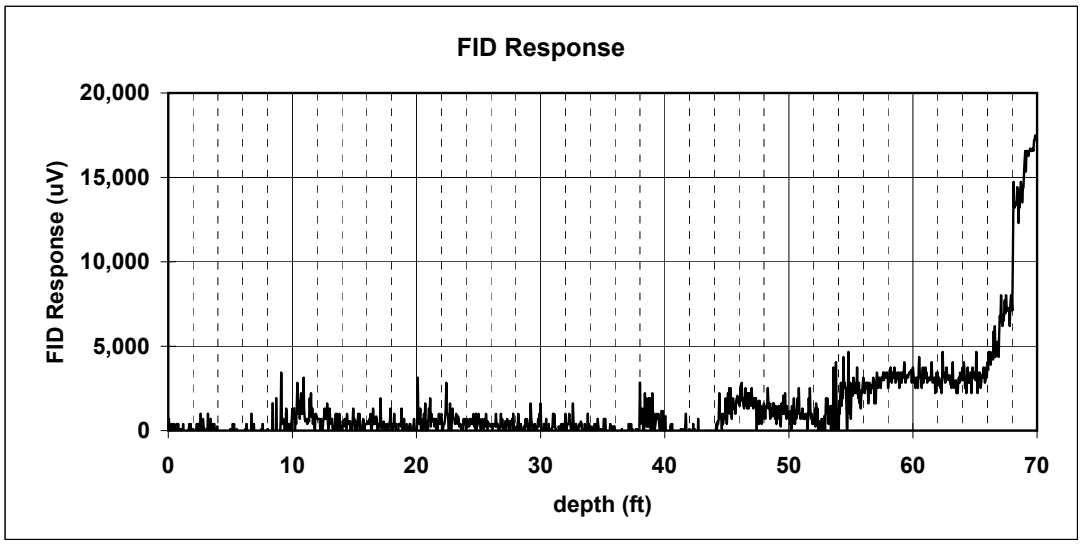

ECD Response
ECD Response (uV)
1,500,000
1,000,000
500,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

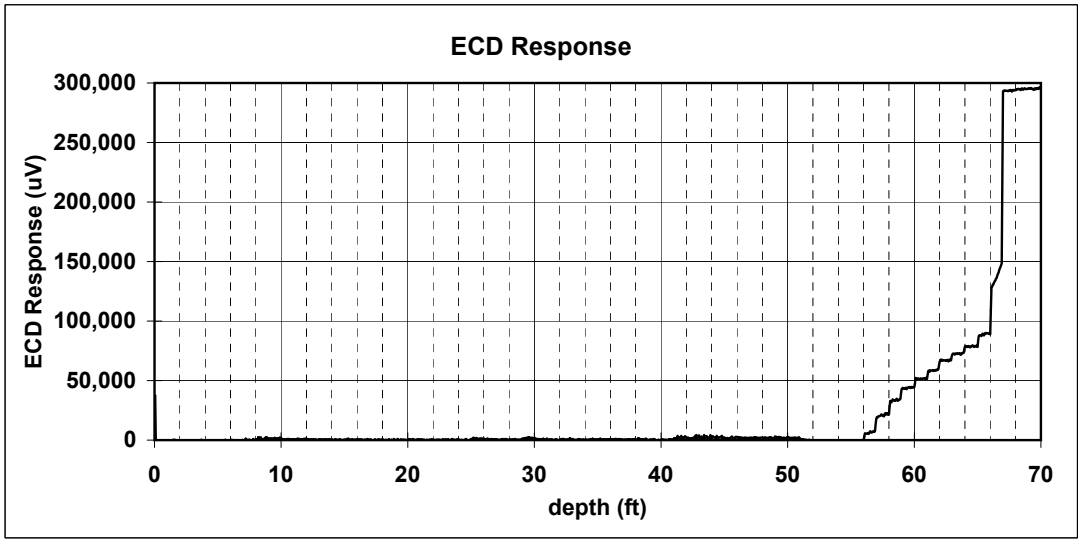

PID Response
PID Response (uV)
1,200,000
800,000
400,000
0
0
10
20
30
40
50
60
70
80
depth (ft)

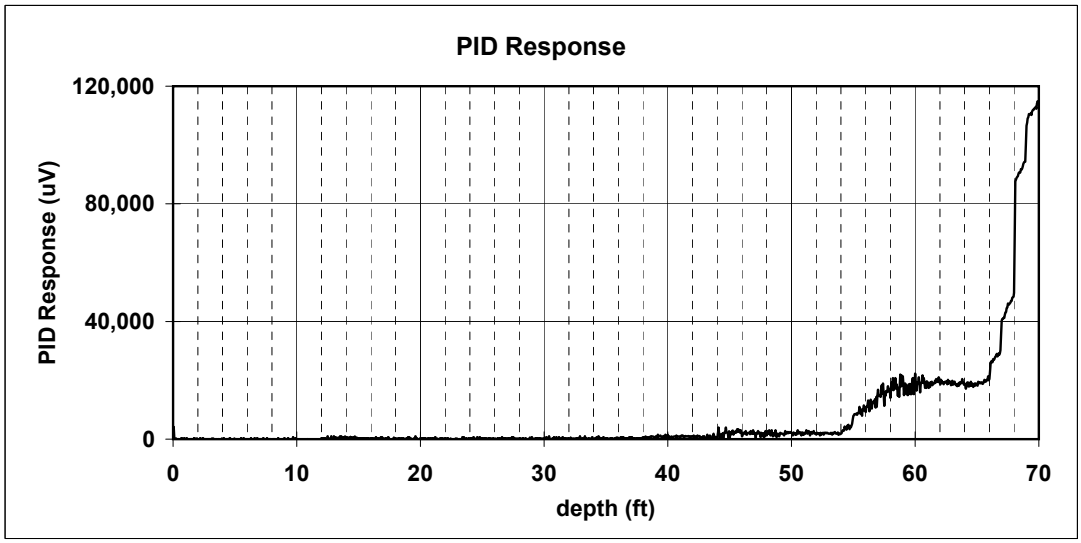

Conductivity
conductivity (uSiemens/m)
120
100
80
60
40
20
0
0
10
20
30 depth (ft) 40
50
60
70

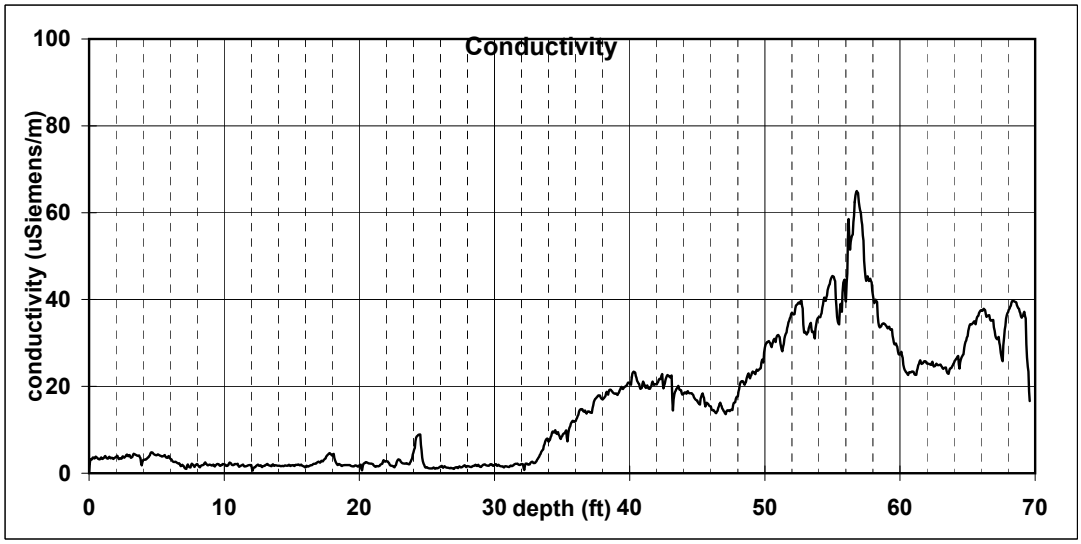

Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30 depth (ft) 40
50
60
70

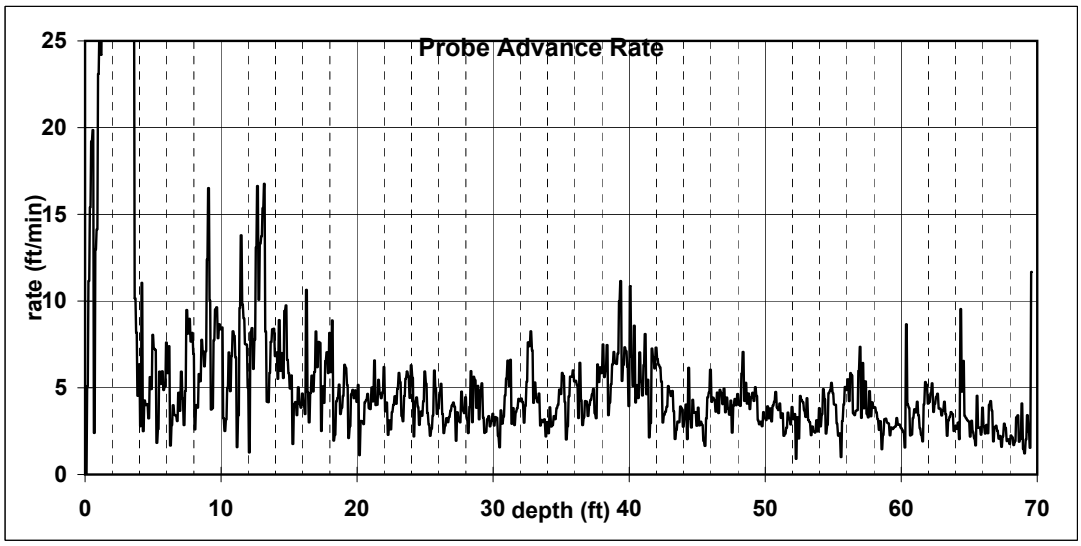

Temperature
temp (C)
110
105
100
95
90
85
80
0
10
20
30
40
50
60
70
depth (ft)

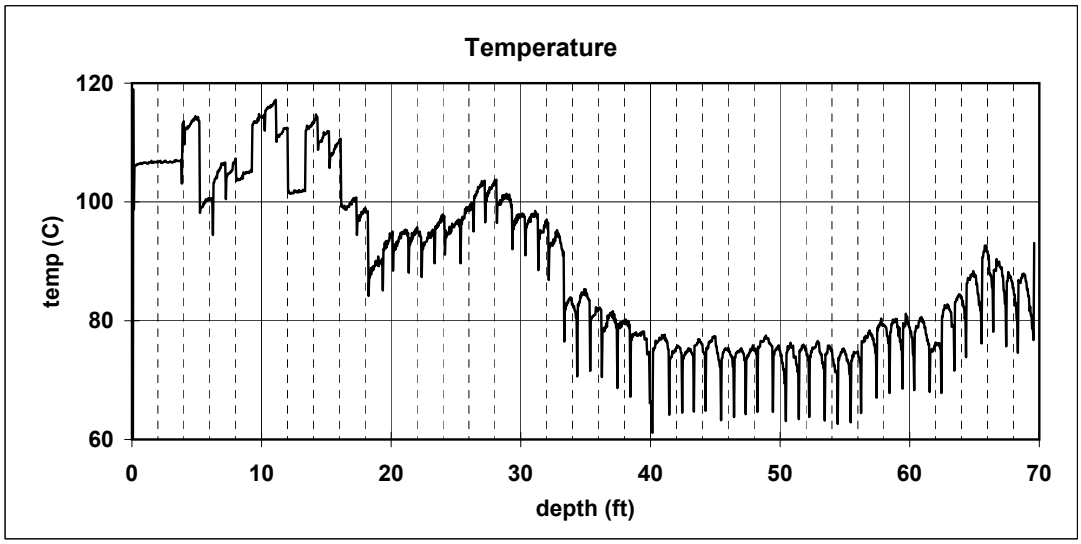

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
depth (ft)

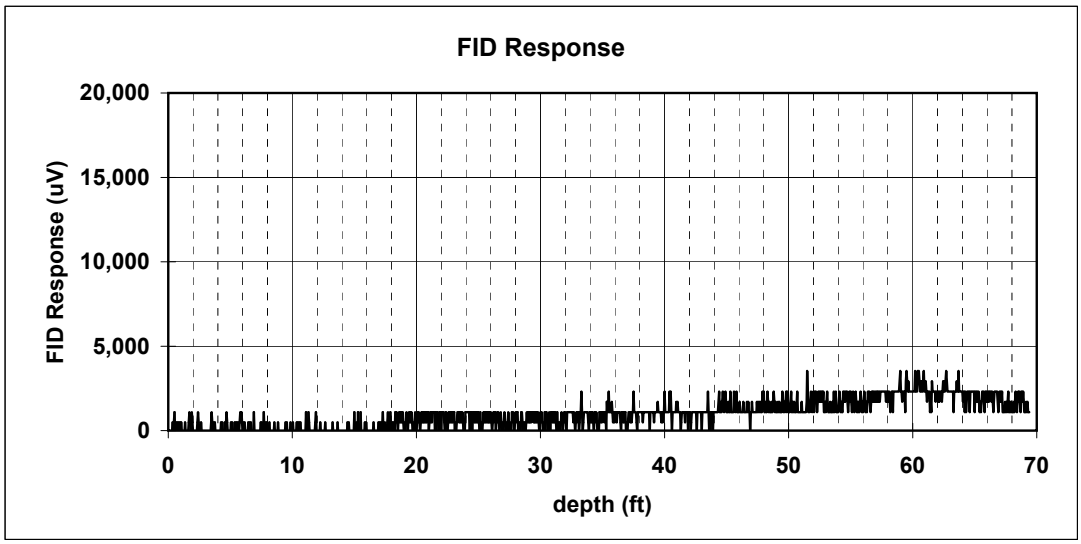

ECD Response
ECD Response (uV)
300,000
250,000
200,000
150,000
100,000
50,000
0
0
10
20
30
40
50
60
70
depth (ft)

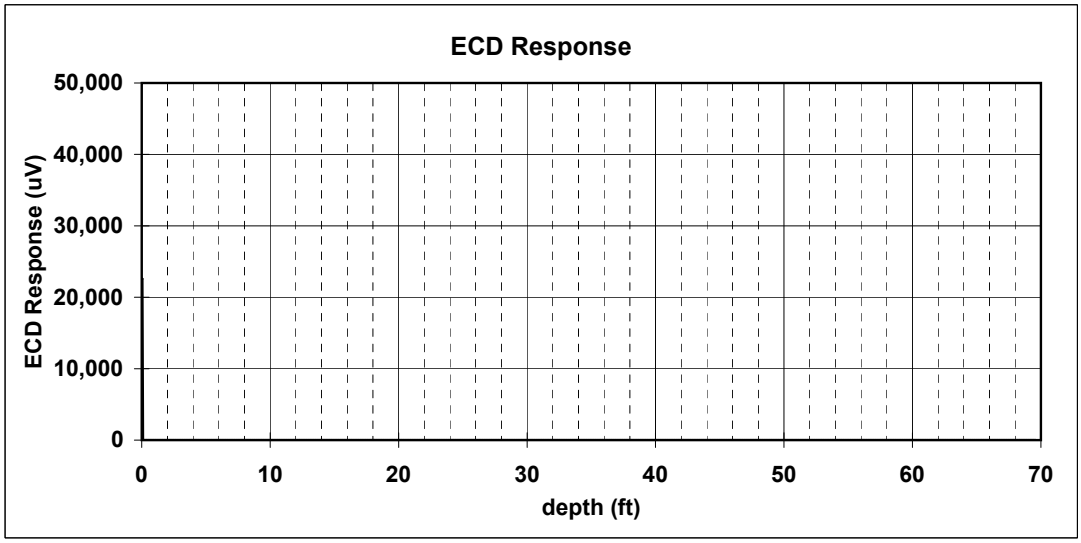

PID Response
PID Response (uV)
120,000
80,000
40,000
0
0
10
20
30
40
50
60
70
depth (ft)

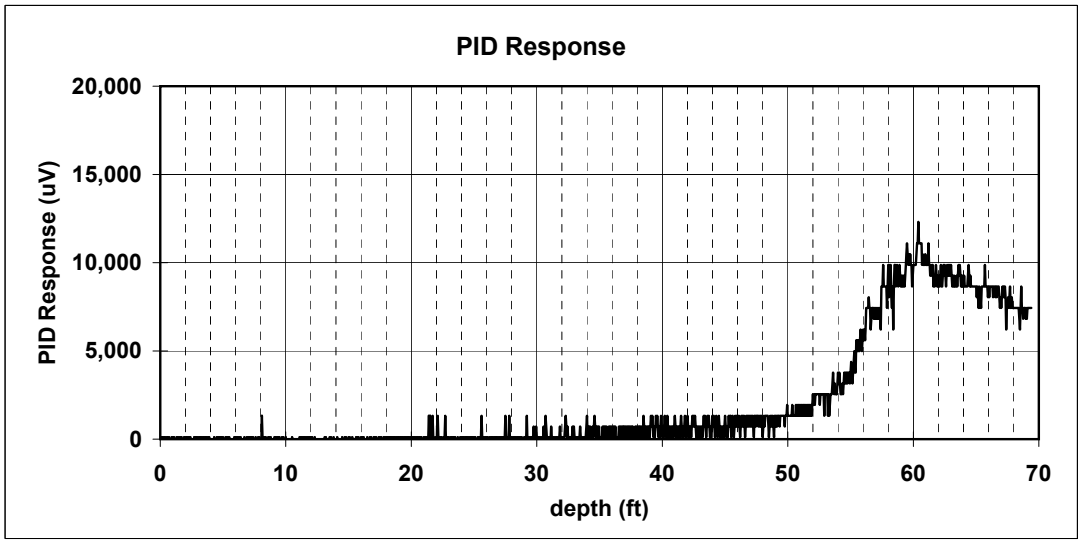

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30 depth (ft) 40
50
60
70

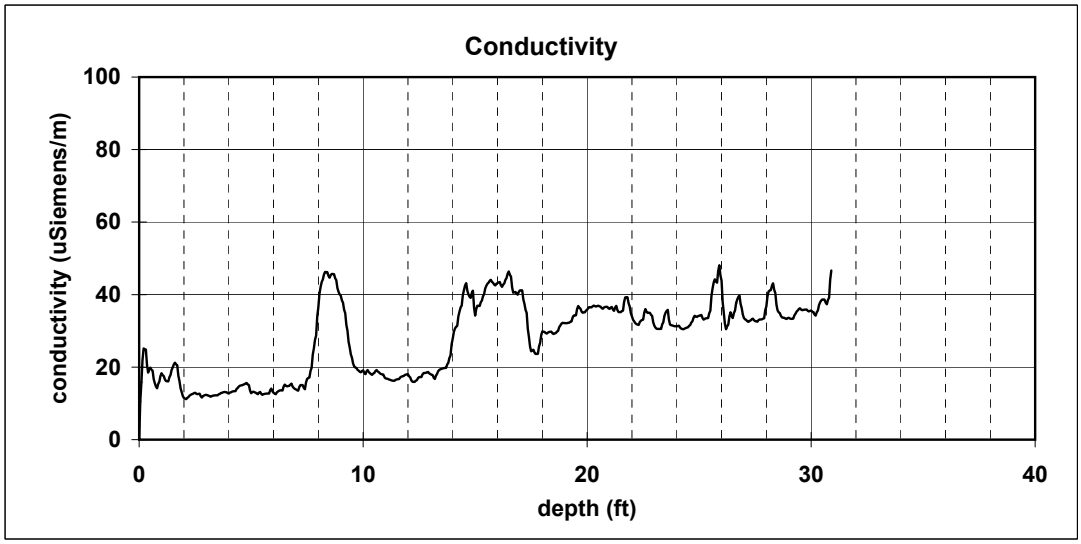

Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30 depth (ft) 40
50
60
70

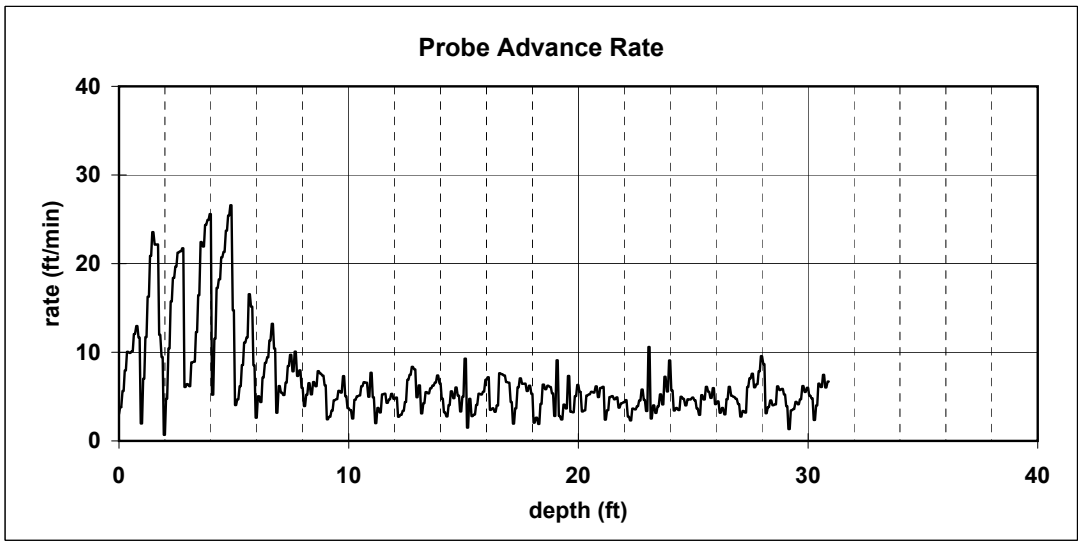

Temperature
temp (C)
120
100
80
60
0
10
20
30
40
50
60
70
depth (ft)

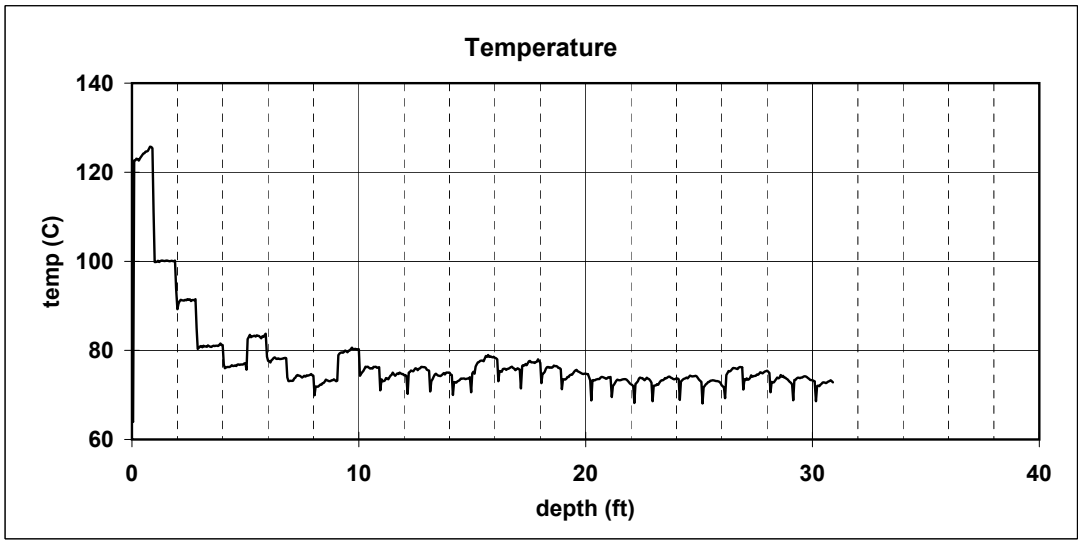

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
depth (ft)

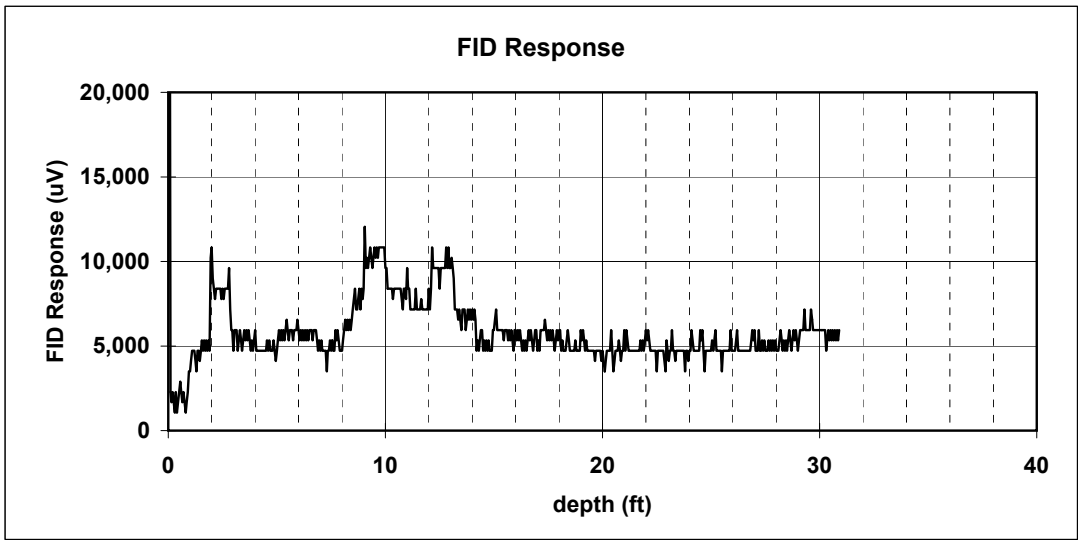

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
50
60
70
depth (ft)

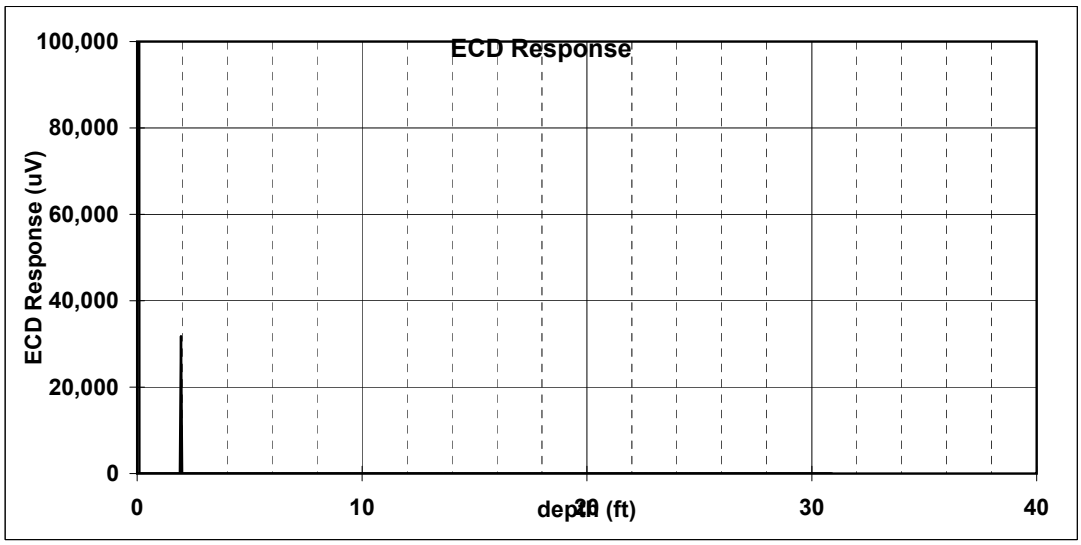

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
50
60
70
depth (ft)

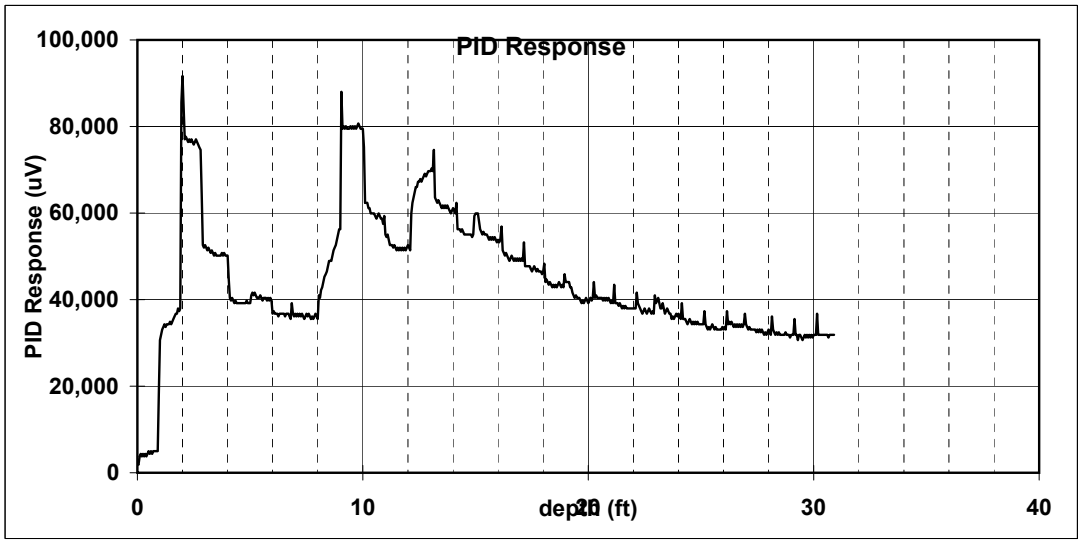

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)

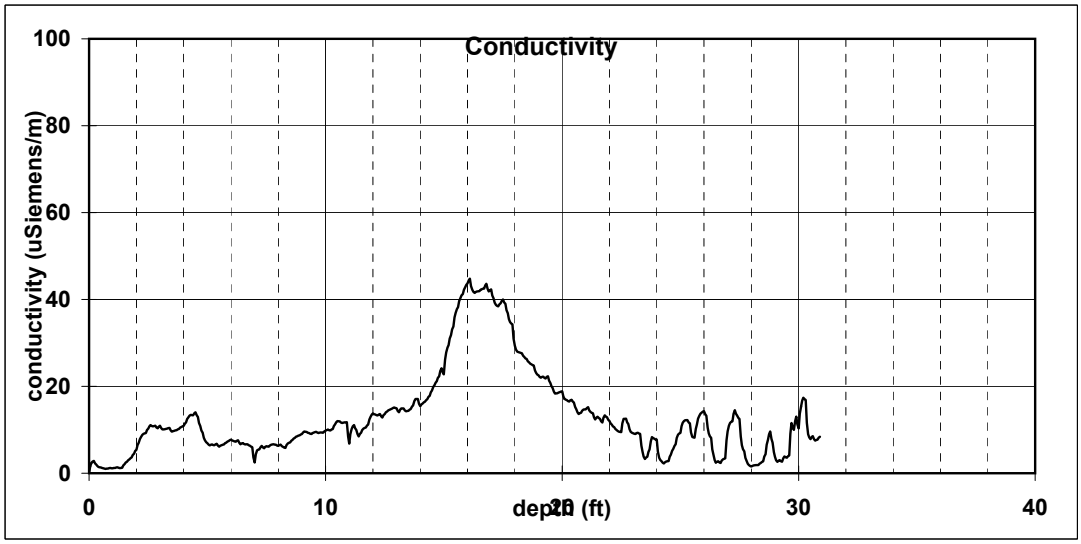

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)

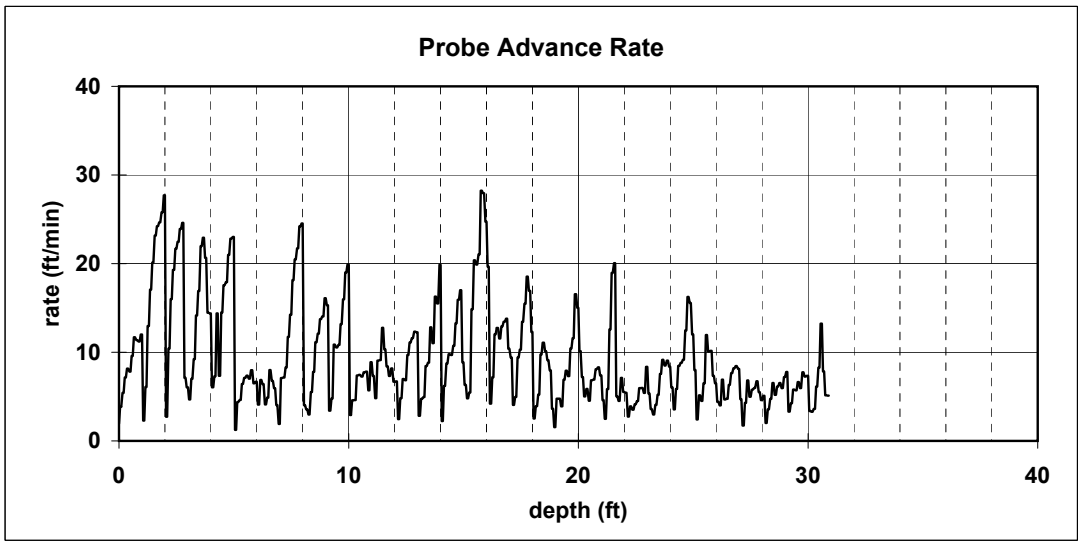

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)

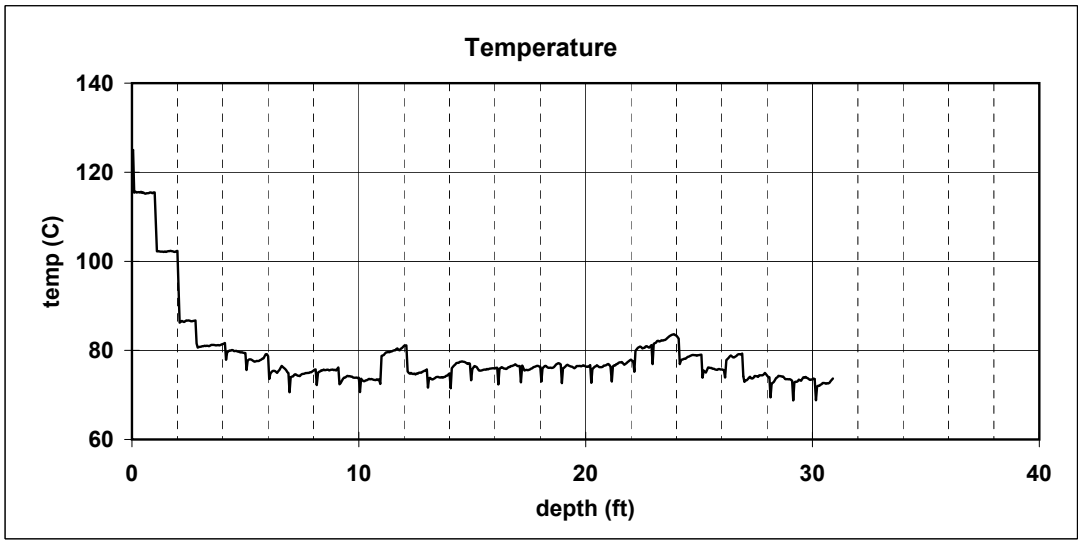

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)

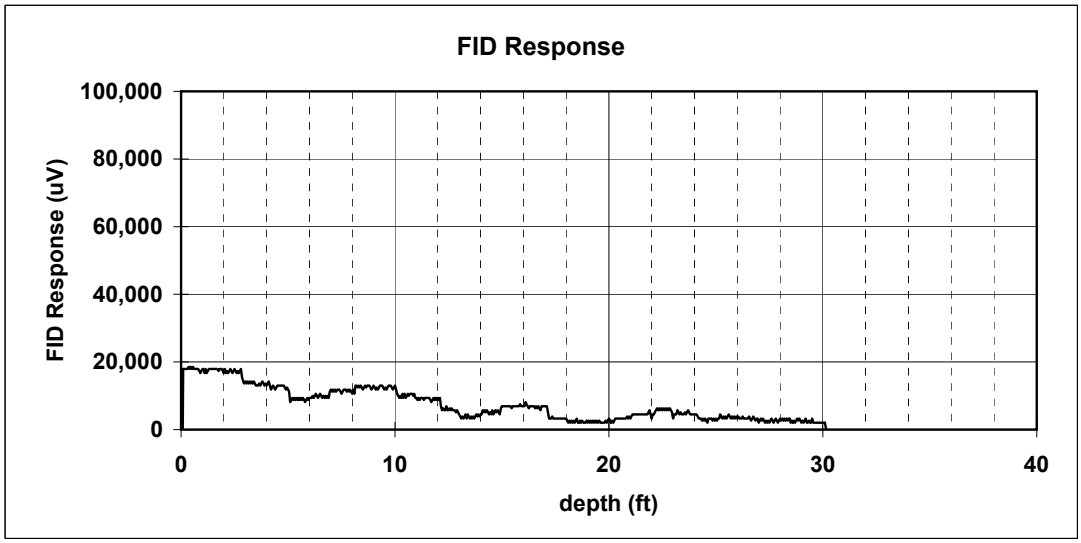

ECD Response
ECD Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
depth (ft)

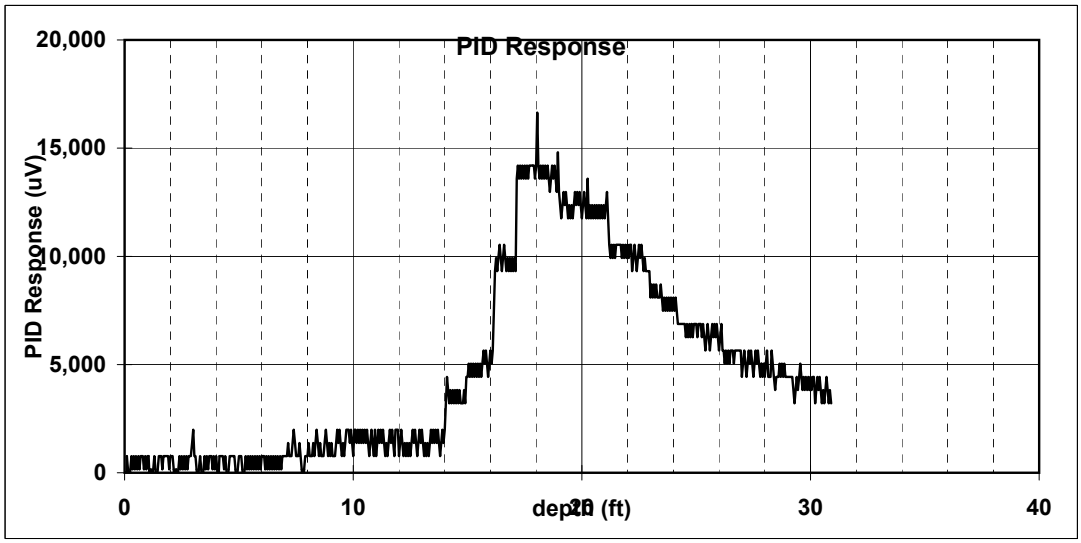

PID Response
PID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
depth (ft)

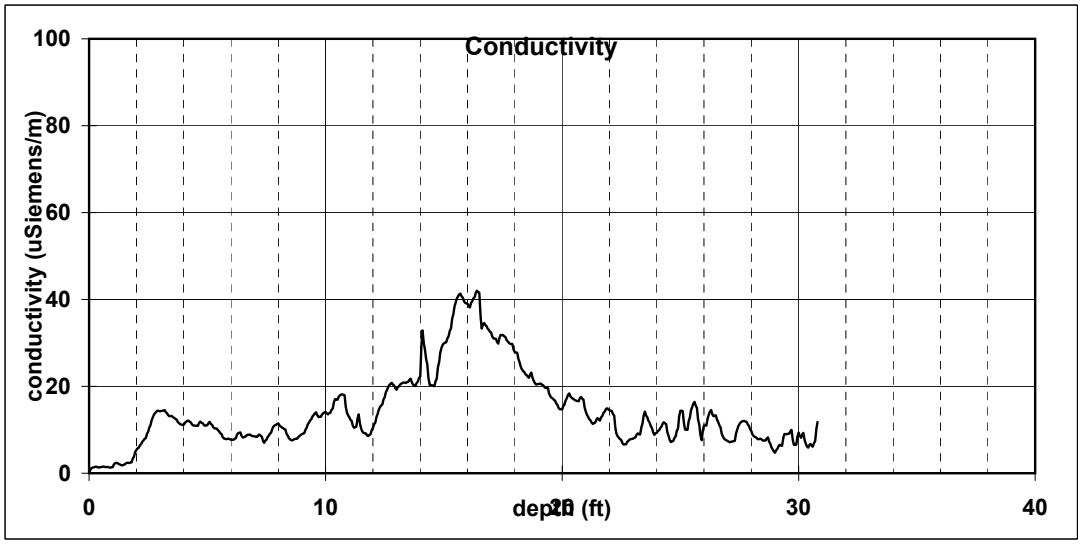

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)

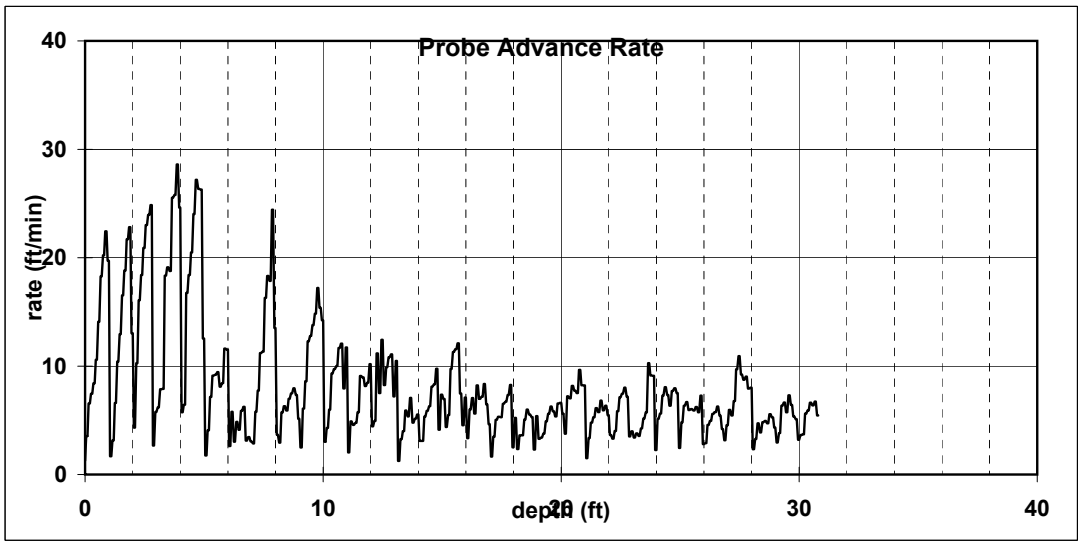

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)

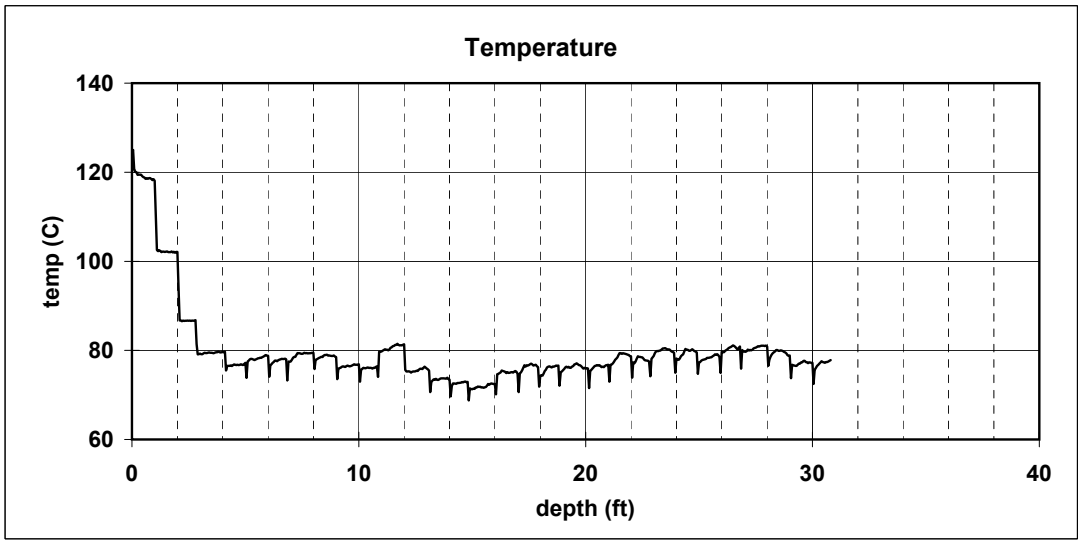

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)

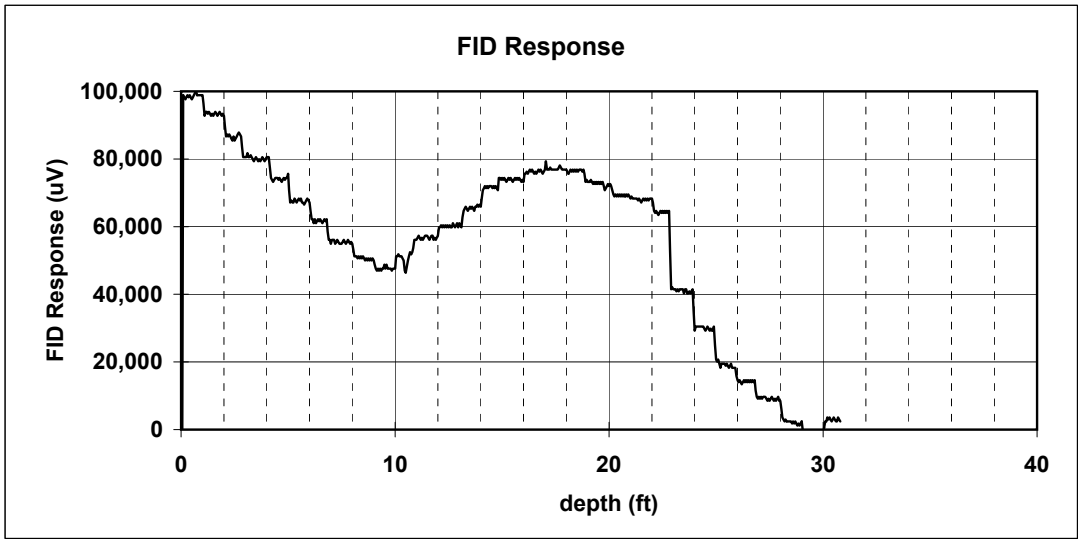

FID Response
FID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
depth (ft)

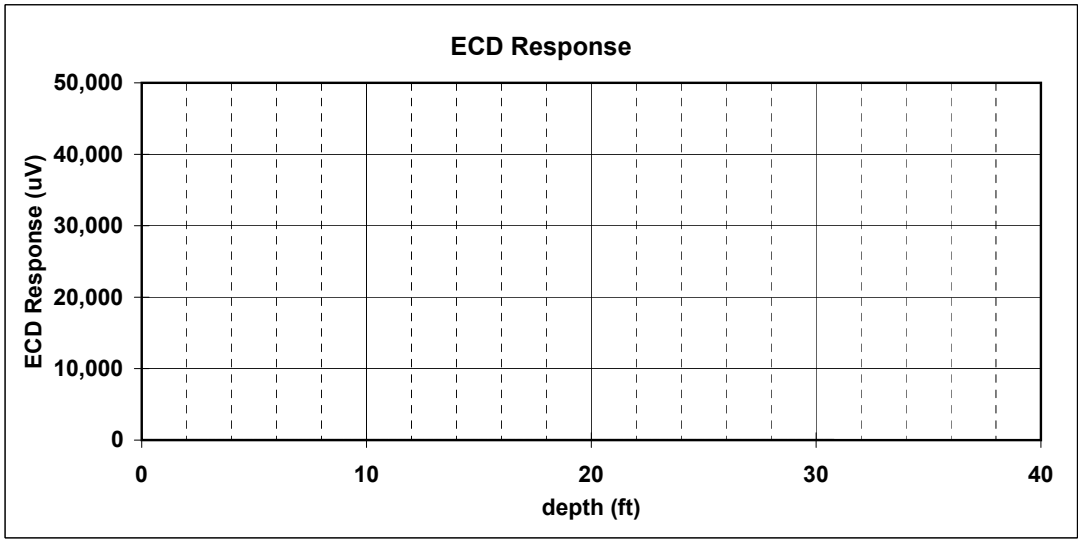

PID Response
PID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)

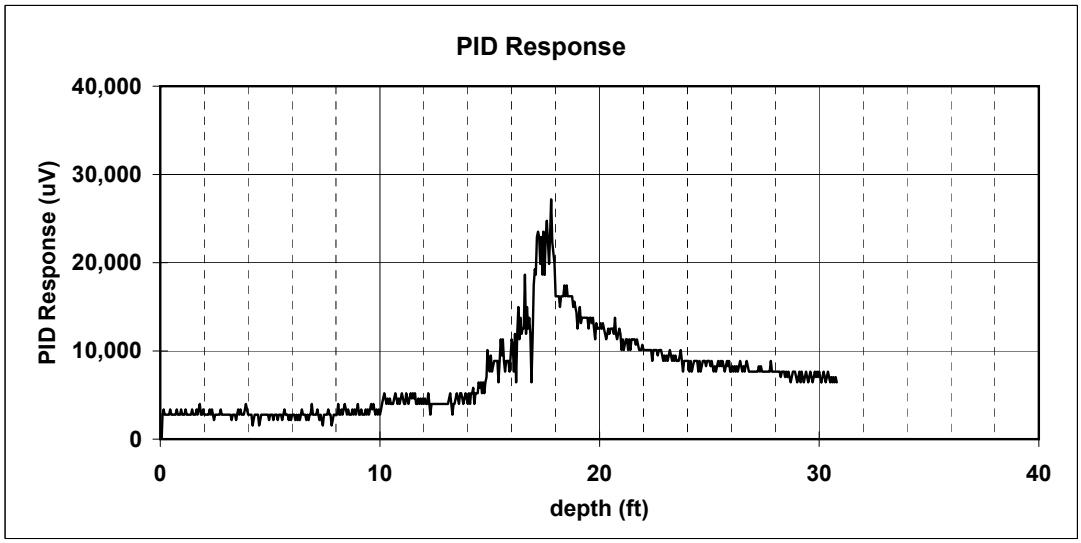

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)

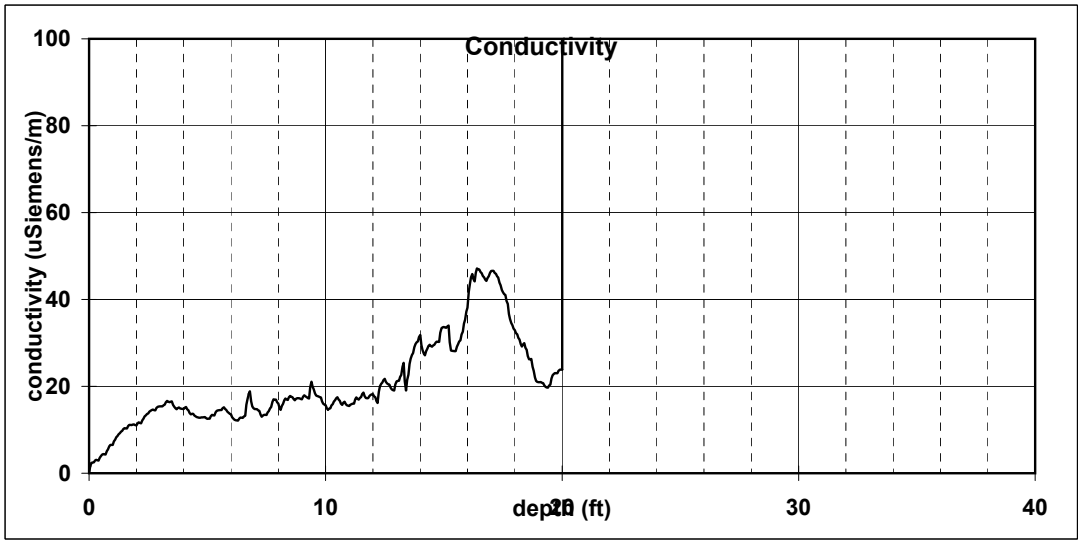

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)

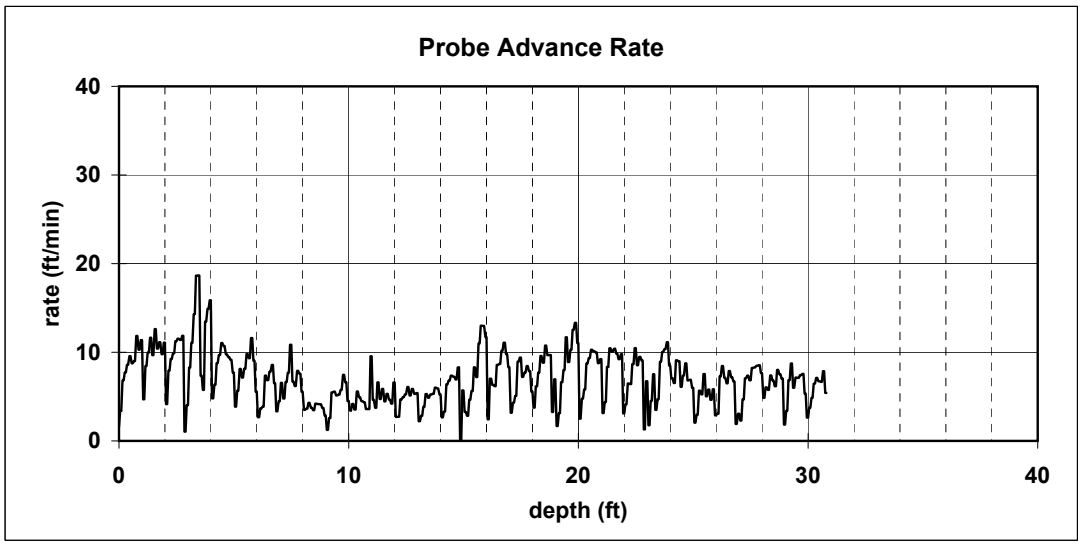

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)

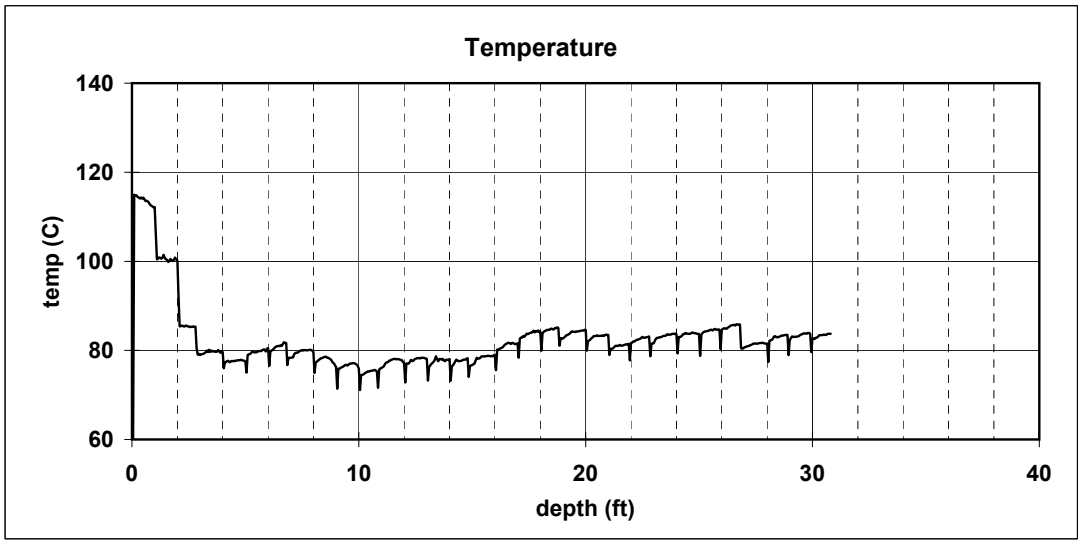

FID Response
FID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
depth (ft)

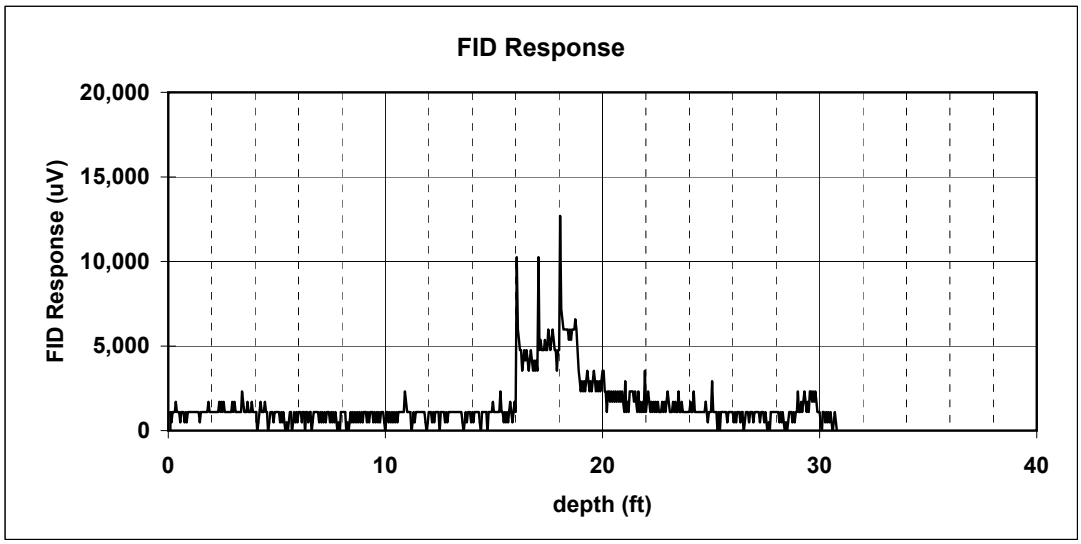

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)

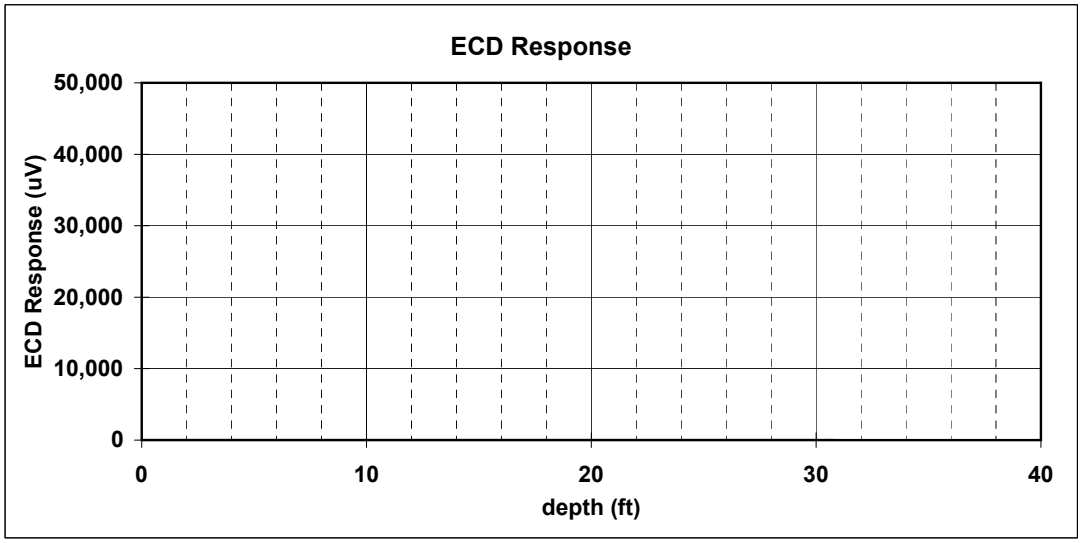

PID Response
PID Response (uV)
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)

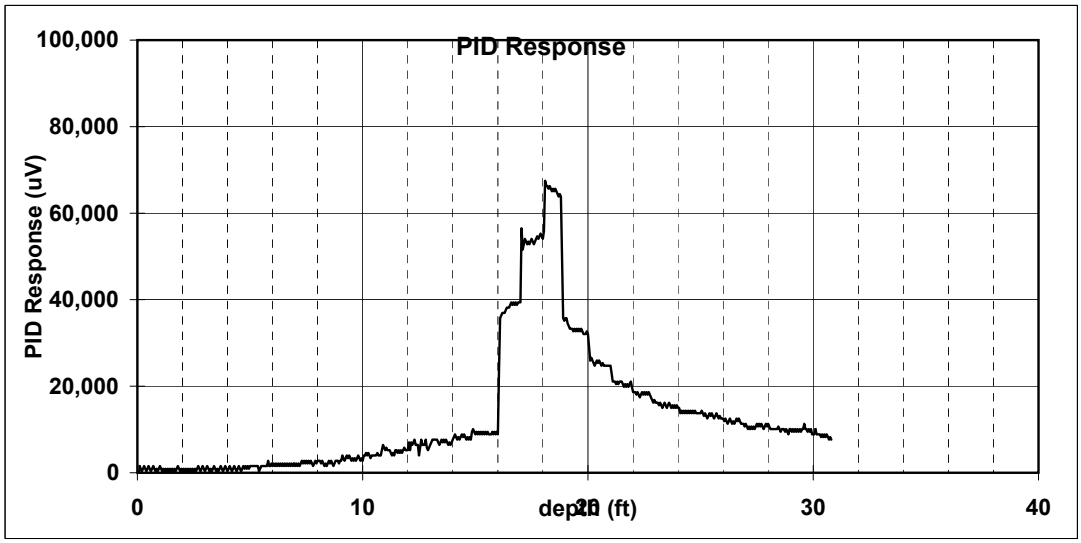

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)

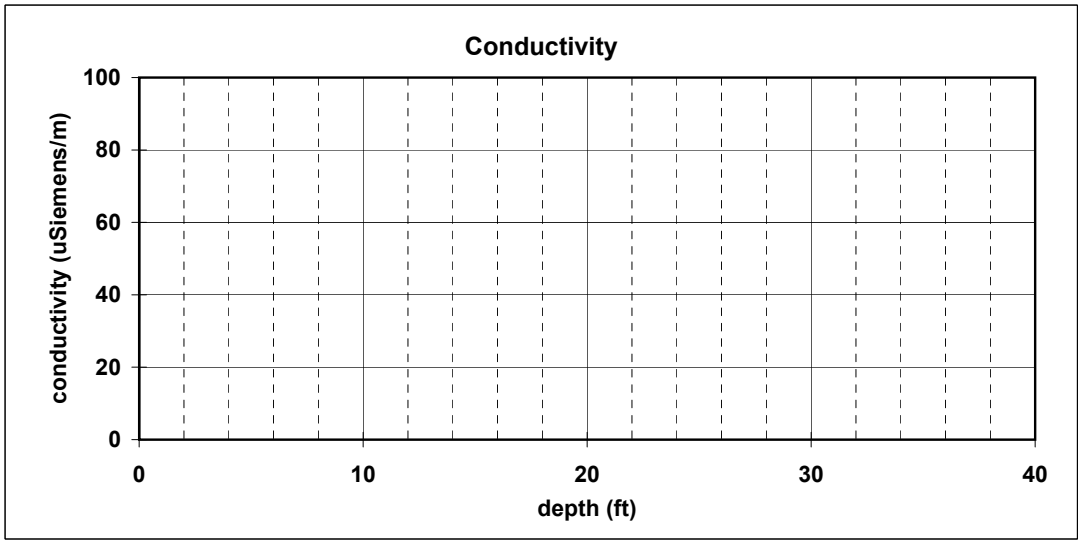

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)

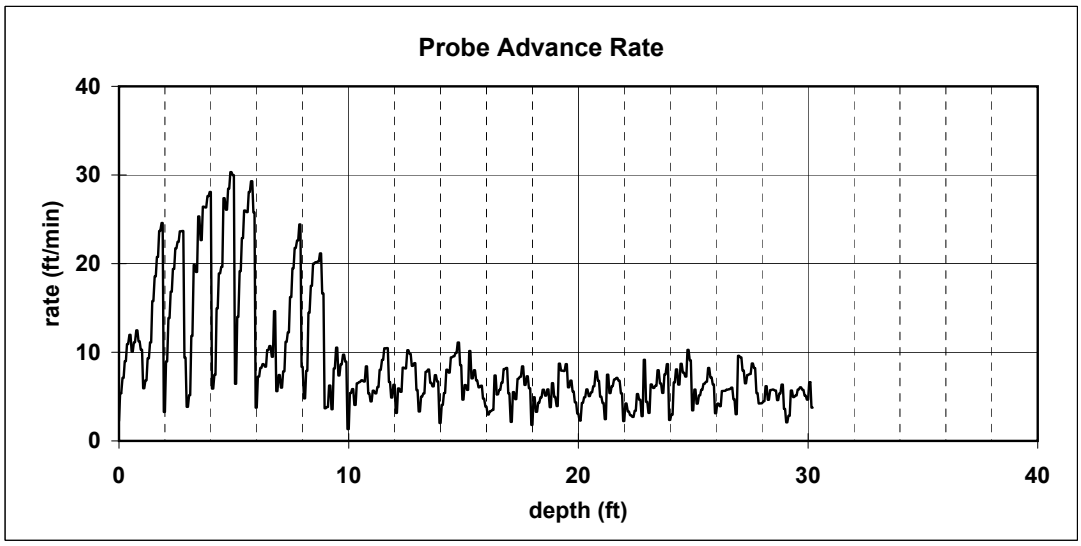

Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)

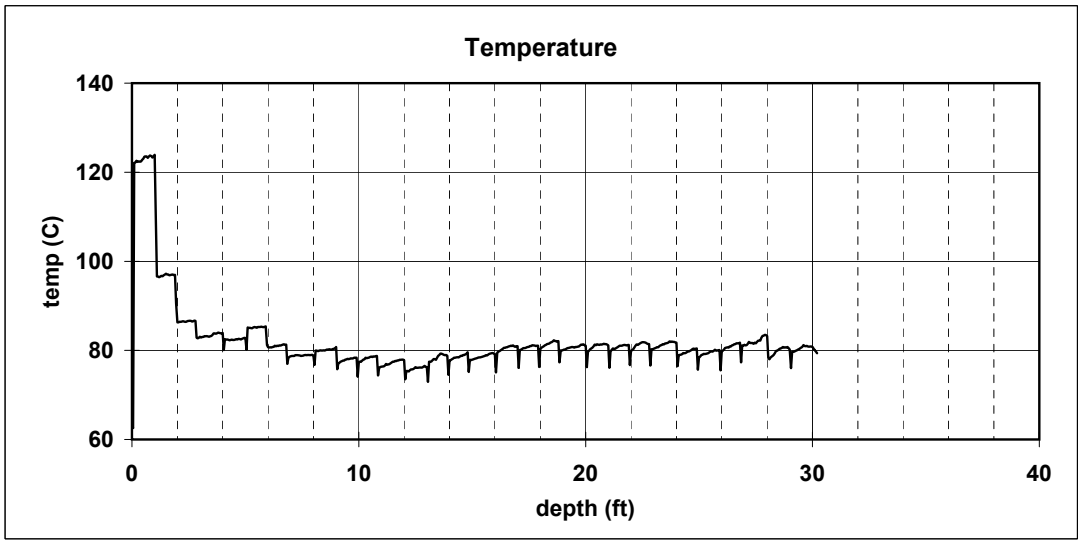

FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)

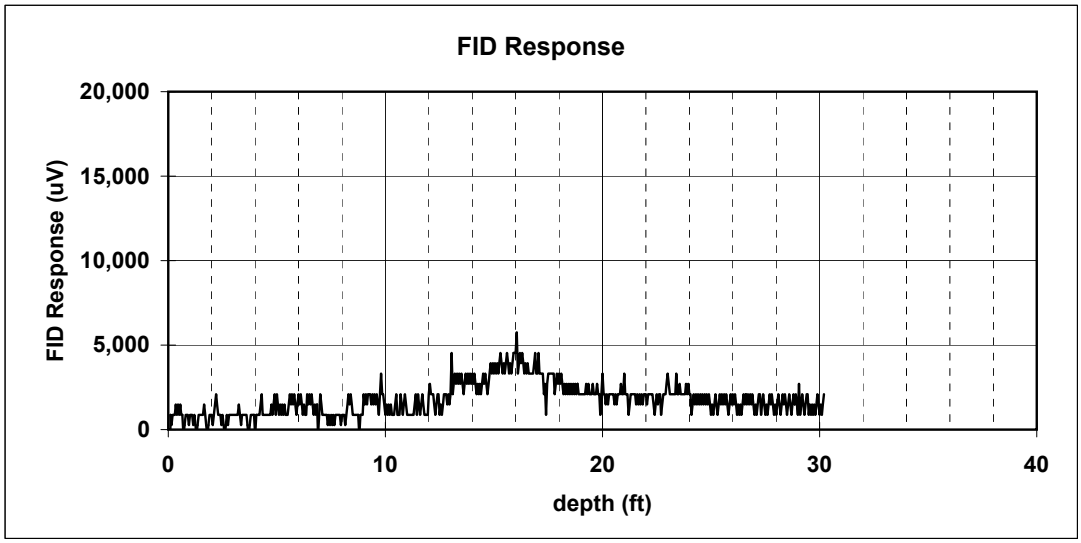

ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)

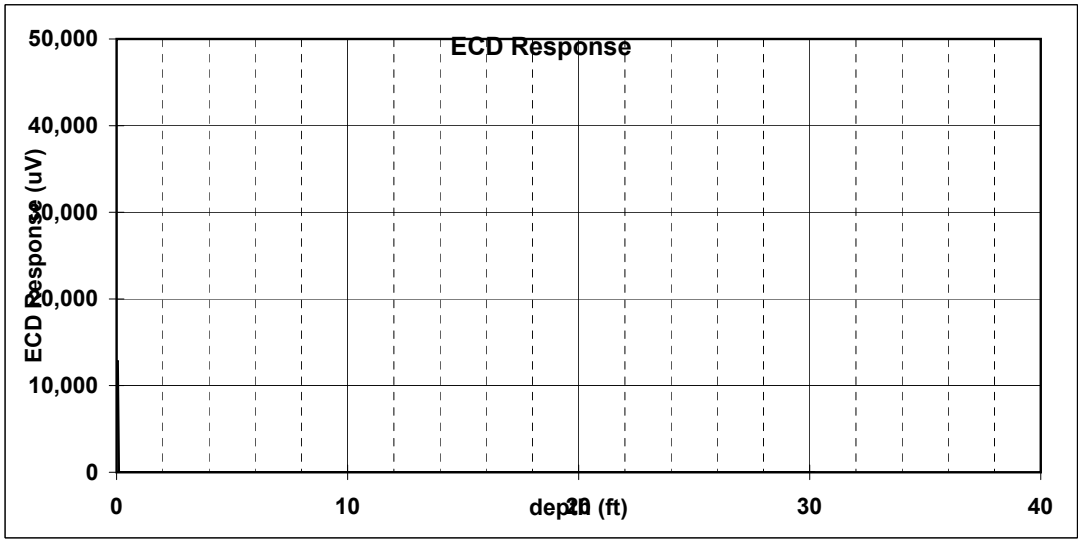

PID Response
PID Response (uV)
100,000
80,000
60,000
40,000
20,000
0
0
10
20
30
40
depth (ft)

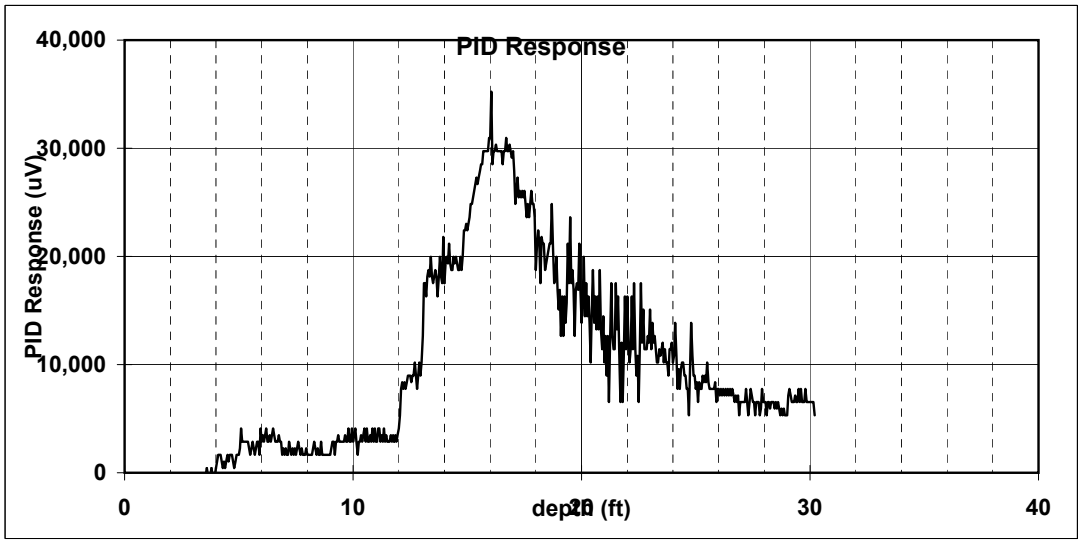

Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)

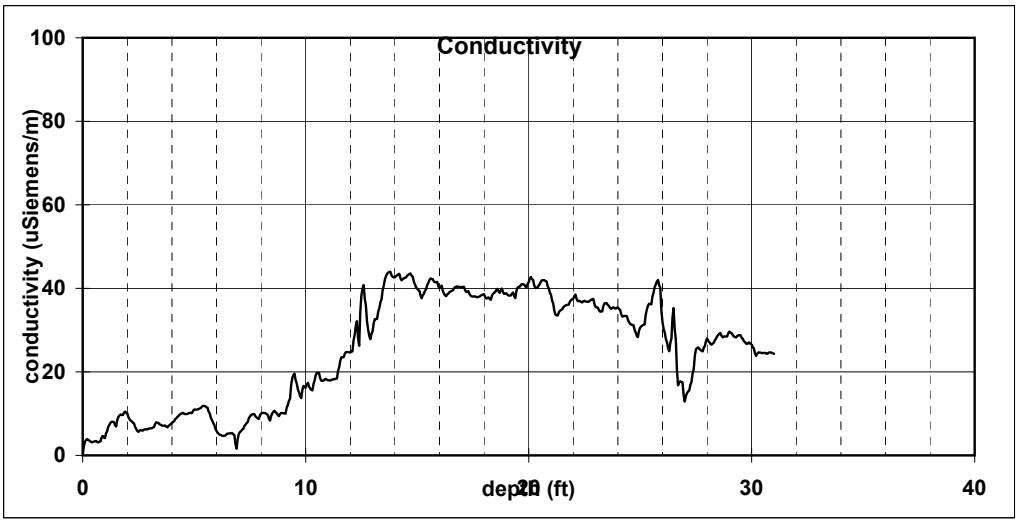

Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)


Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)


FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


PID Response
PID Response (uV)
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
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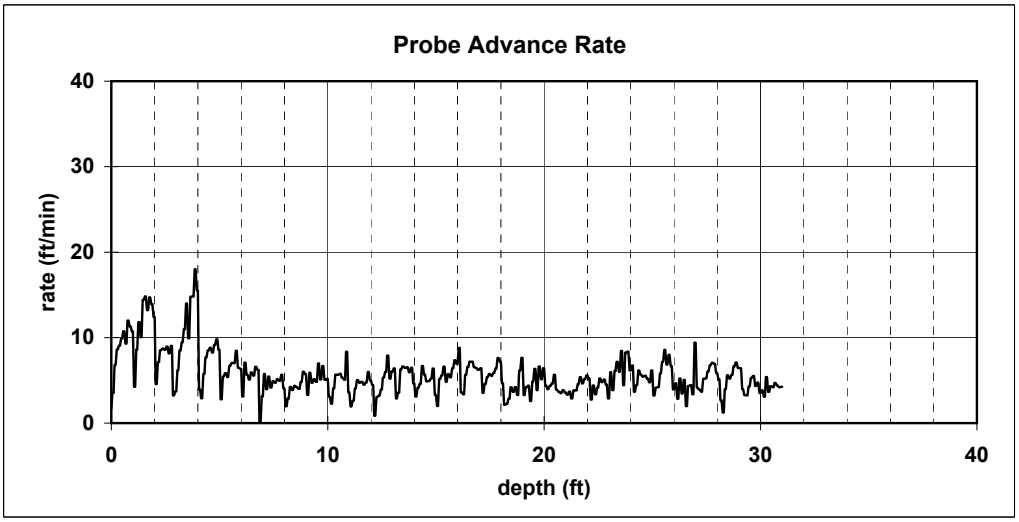
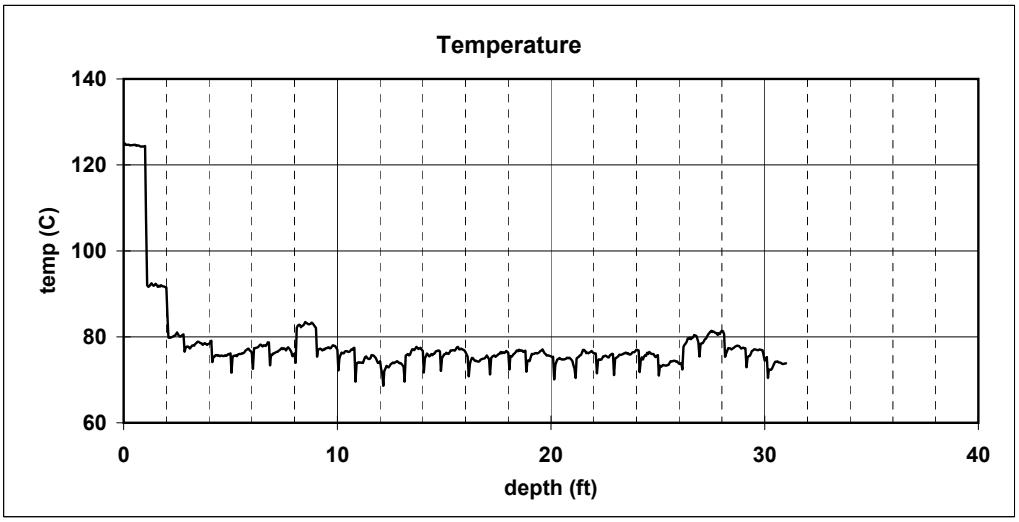
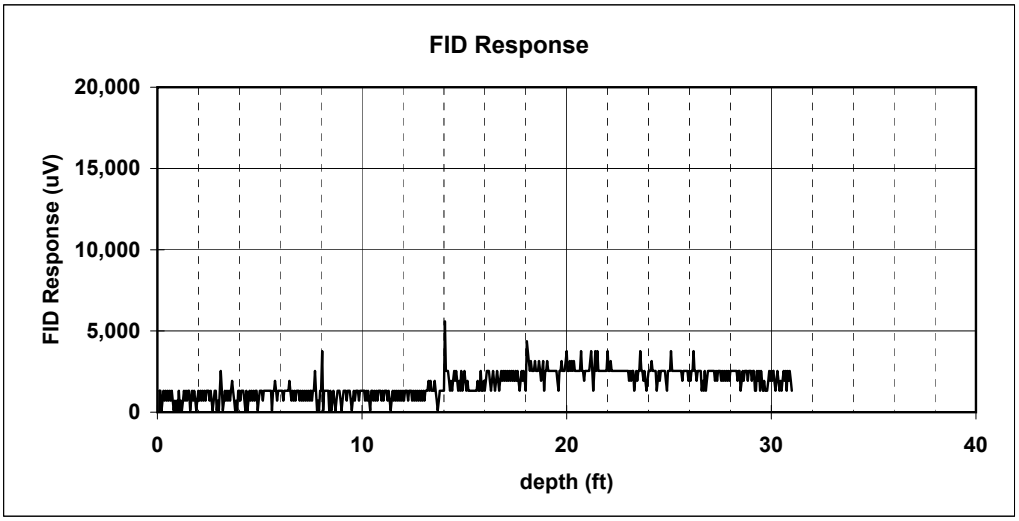
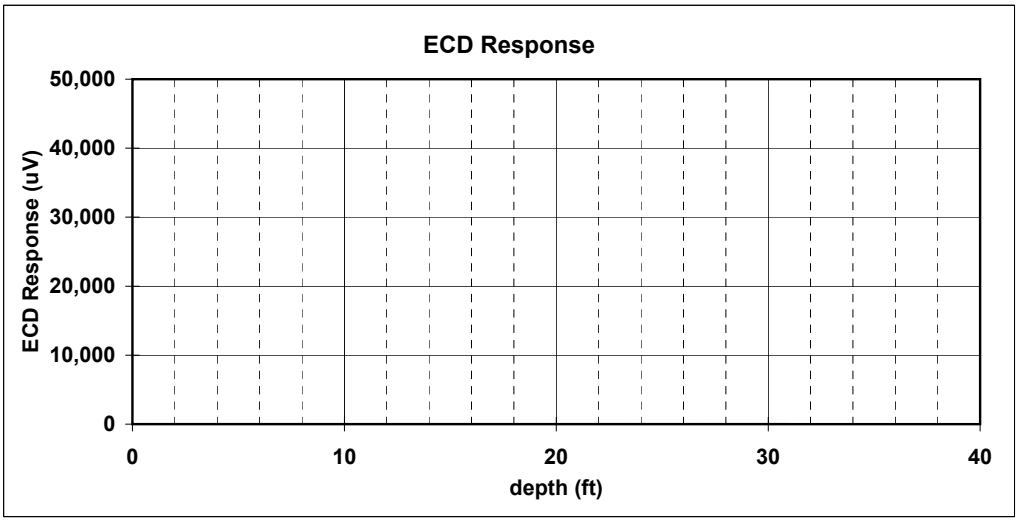
depth (ft)


Probe Advance Rate
rate (ft/min)
40
30
20
10
0
0
10
20
30
40
depth (ft)


Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)


FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
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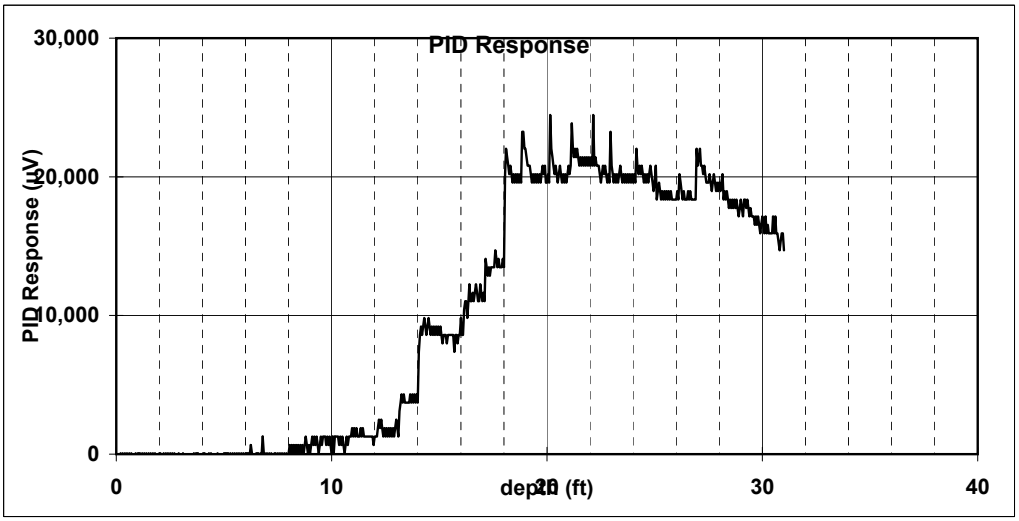
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


PID Response
PID Response (µV)
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20,000
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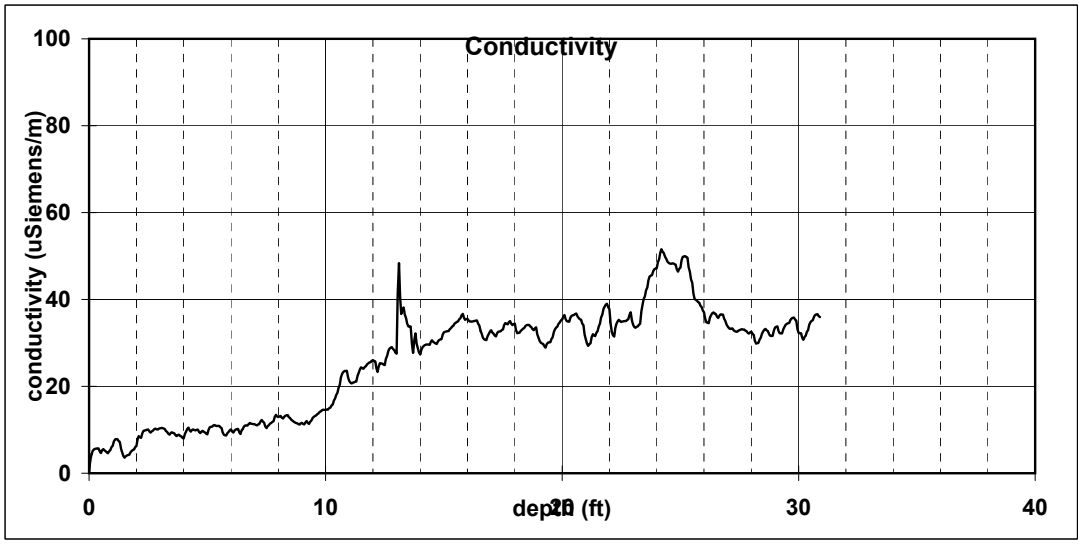
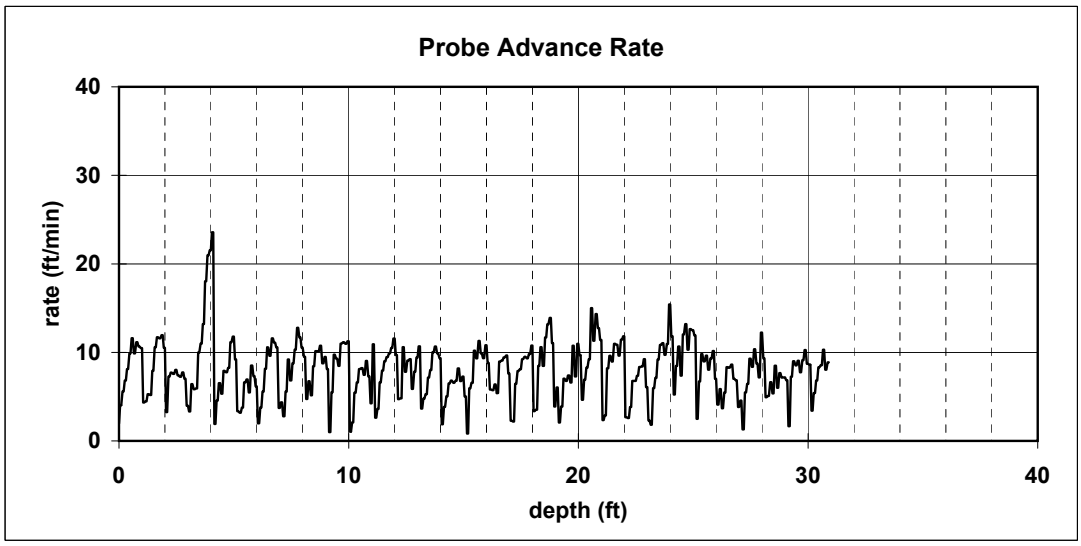
0
0
10
20
30
40
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)


Probe Advance Rate
rate (ft/min)
40
30
20
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0
0
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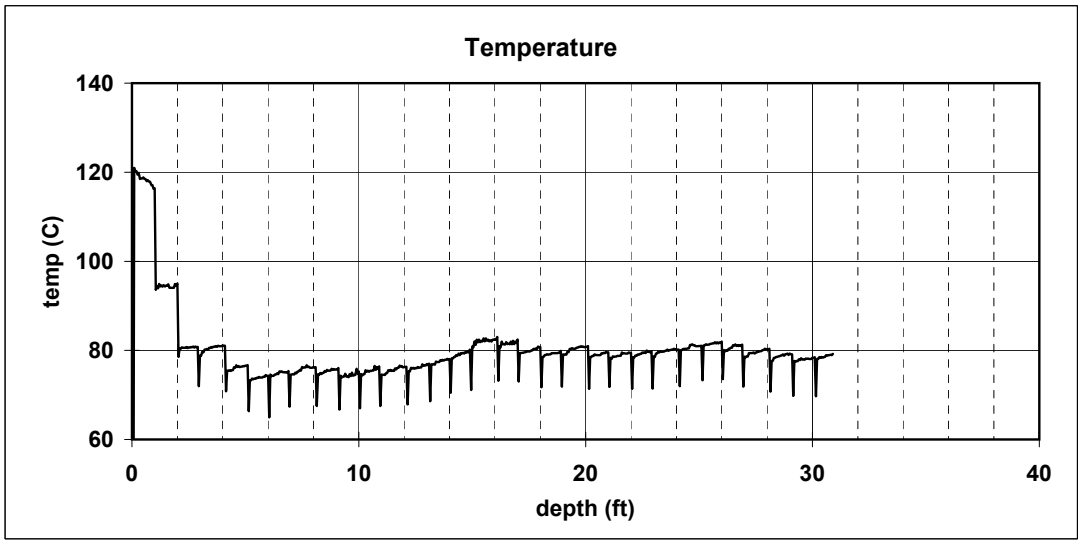
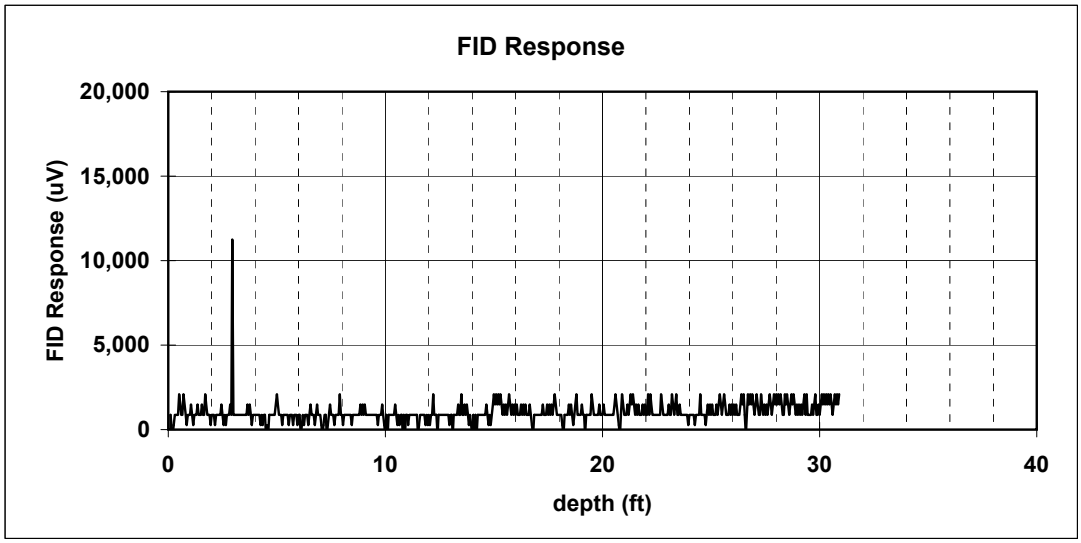
20
30
40
depth (ft)


Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)


FID Response
FID Response (uV)
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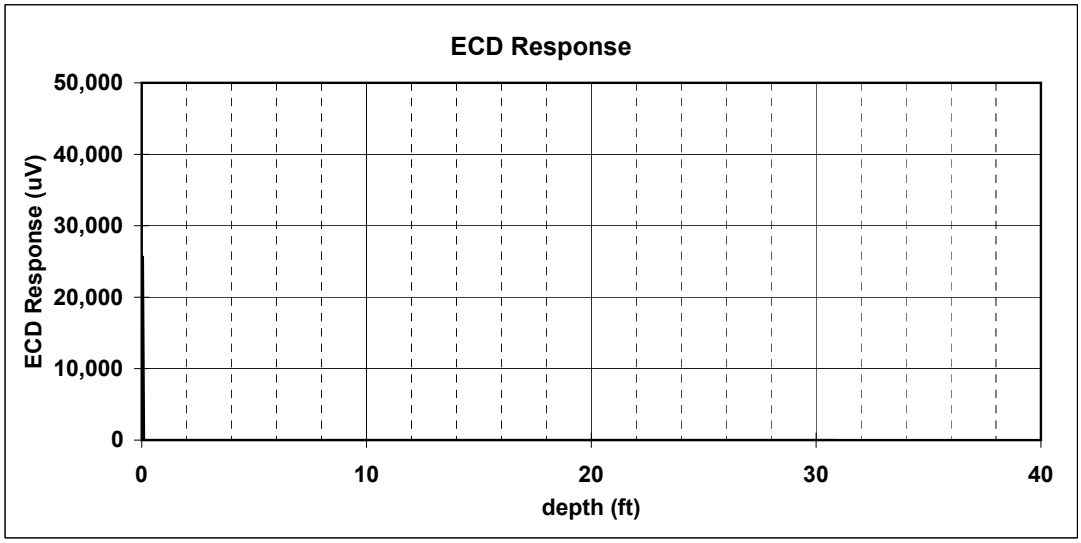
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
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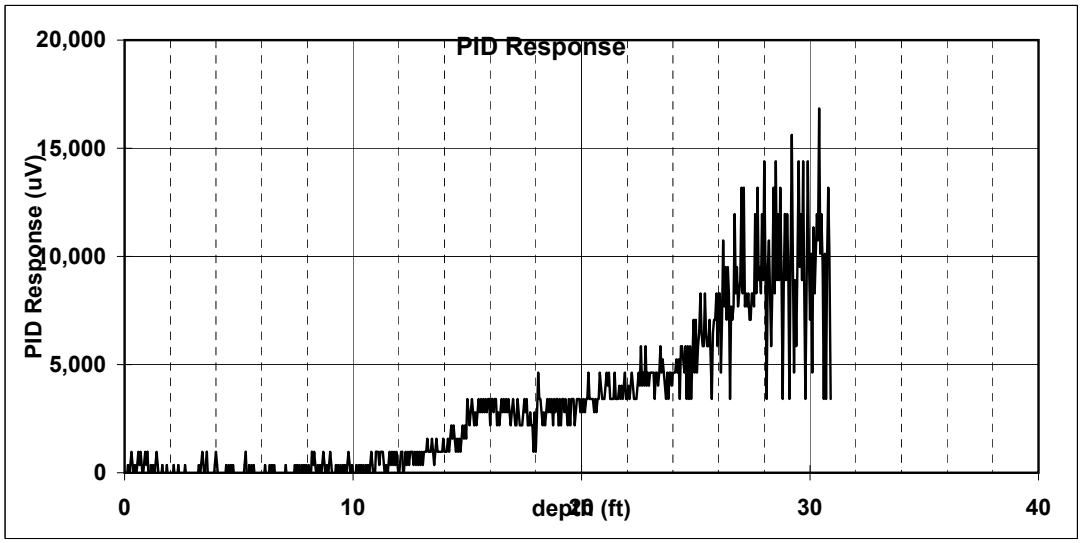
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


PID Response
PID Response (uV)
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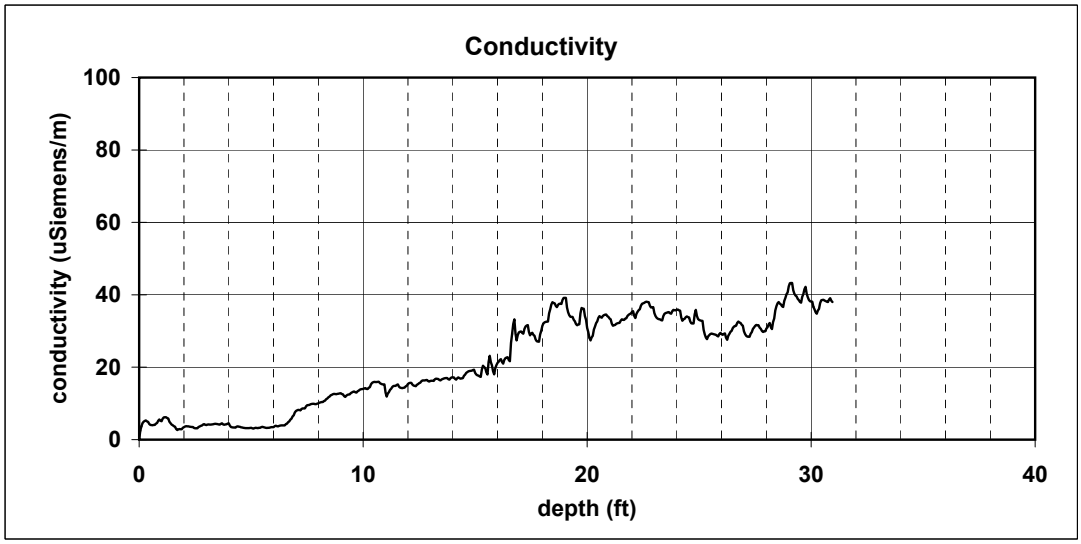
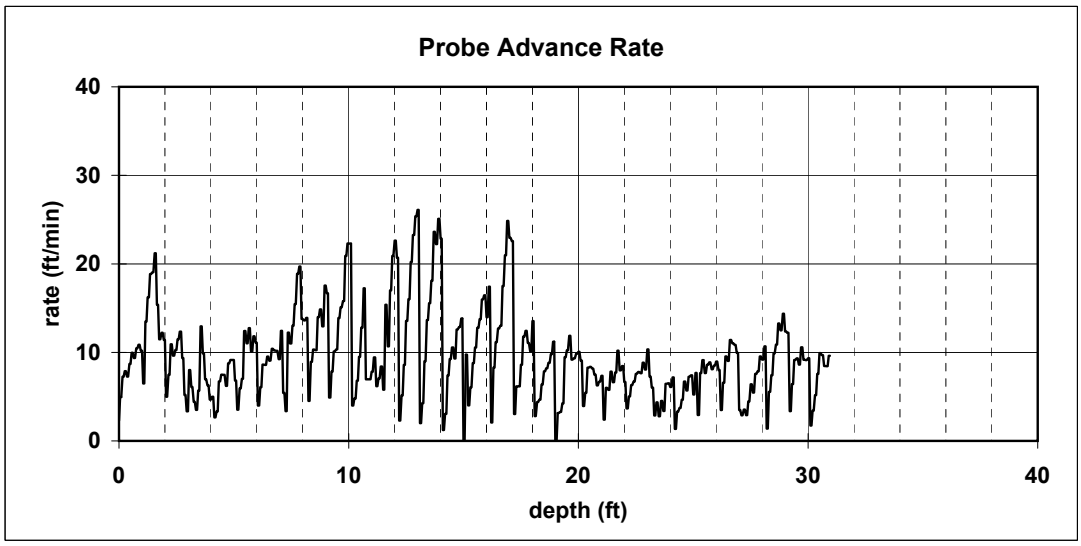
0
10
20
30
40
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)


Probe Advance Rate
rate (ft/min)
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30
20
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0
0
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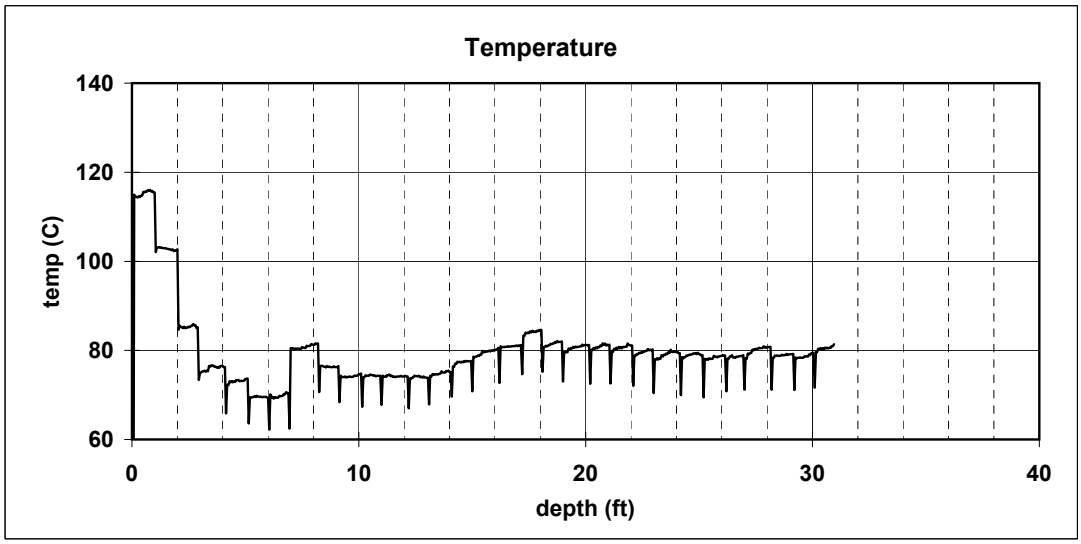
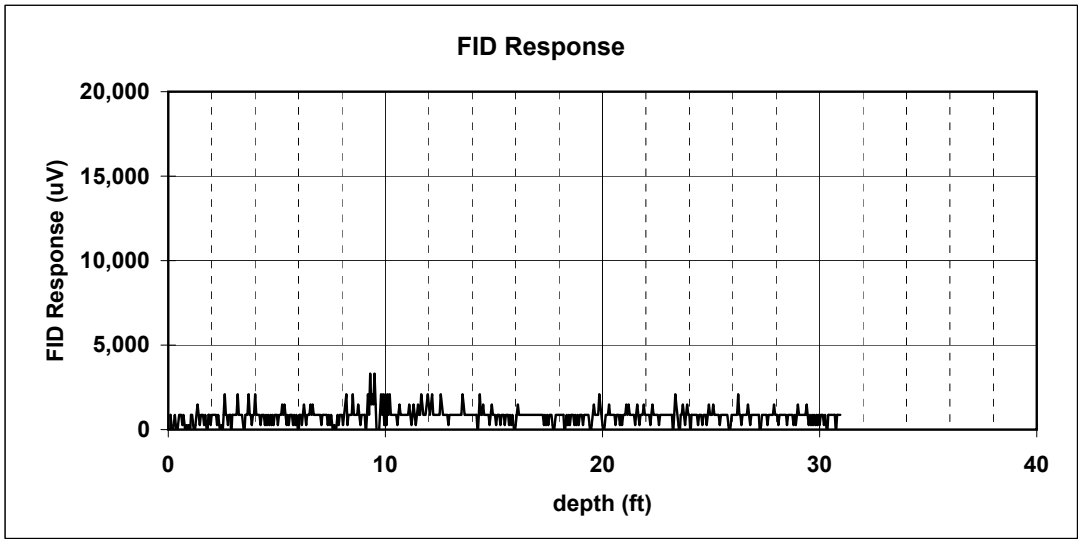
20
30
40
depth (ft)


Temperature
temp (C)
140
120
100
80
60
0
10
20
30
40
depth (ft)


FID Response
FID Response (uV)
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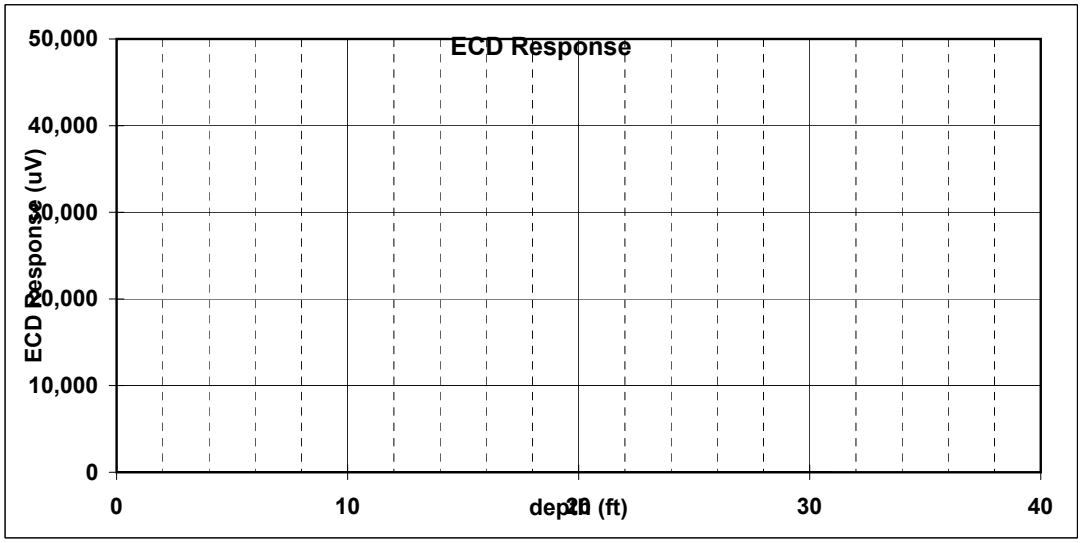
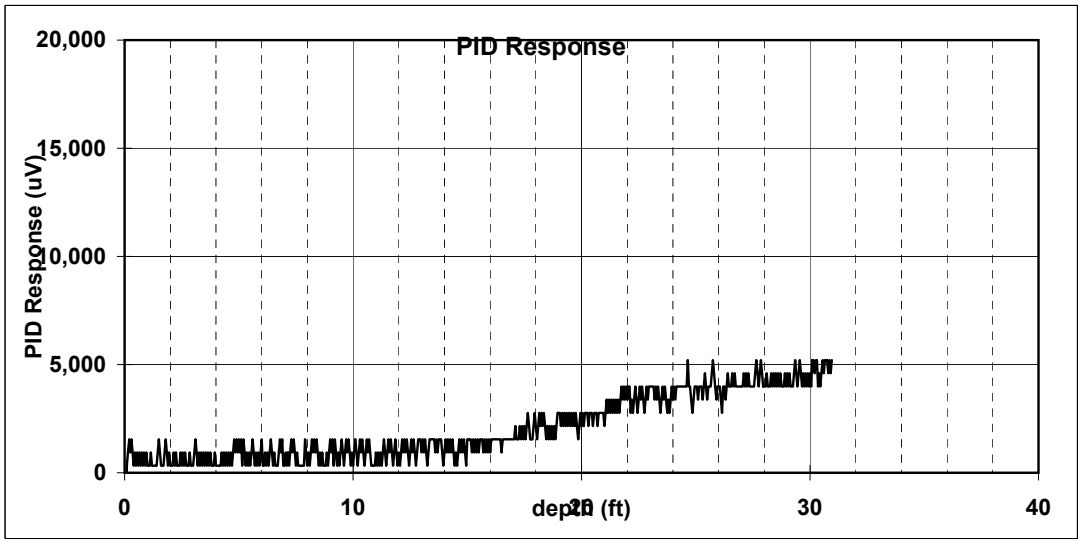
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


PID Response
PID Response (uV)
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0
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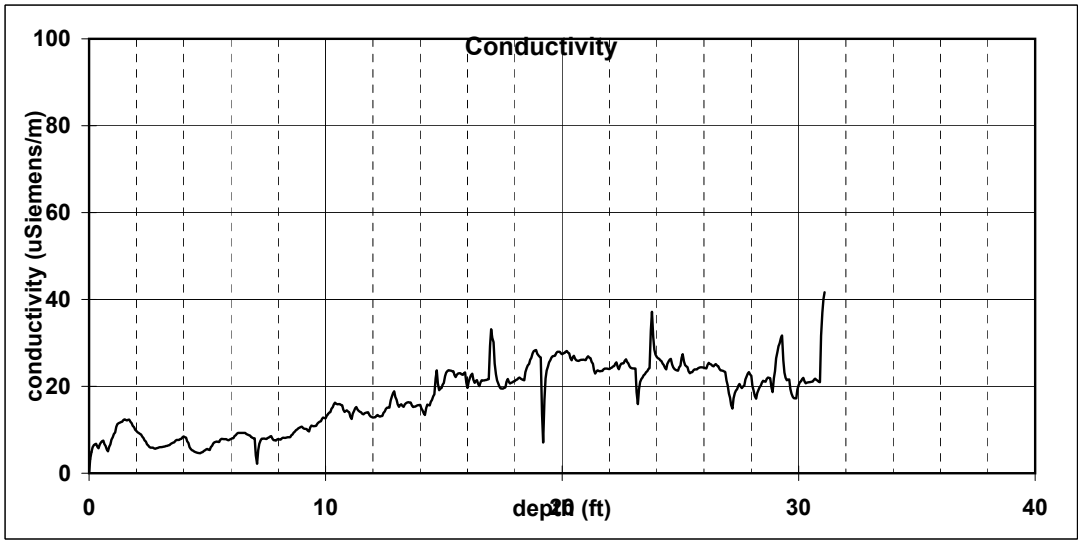
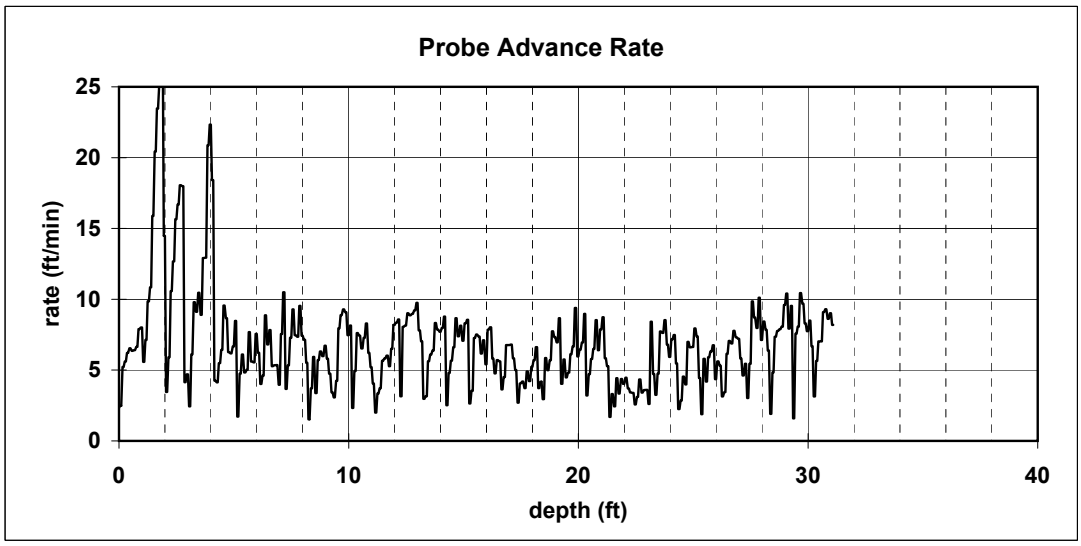
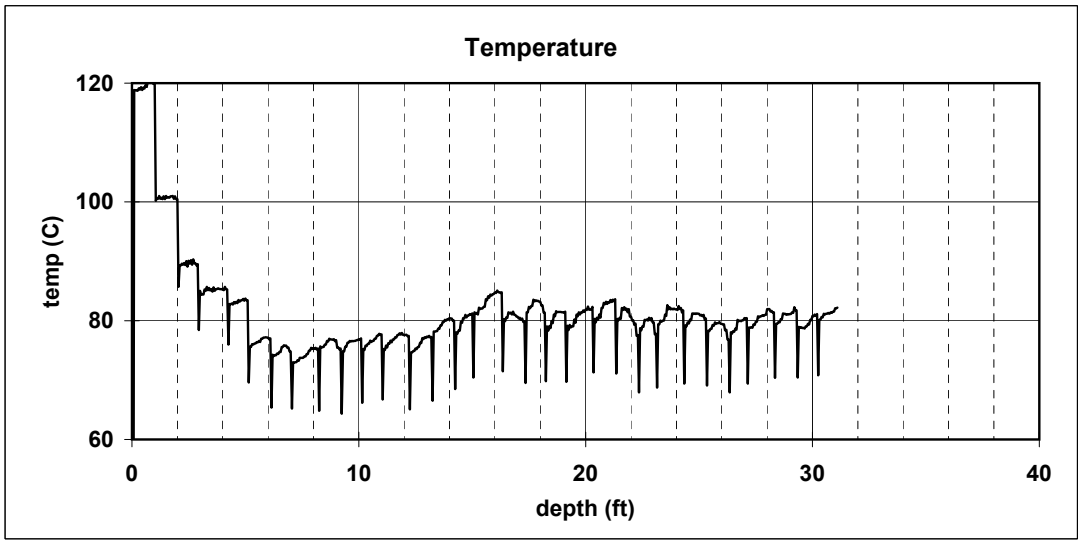
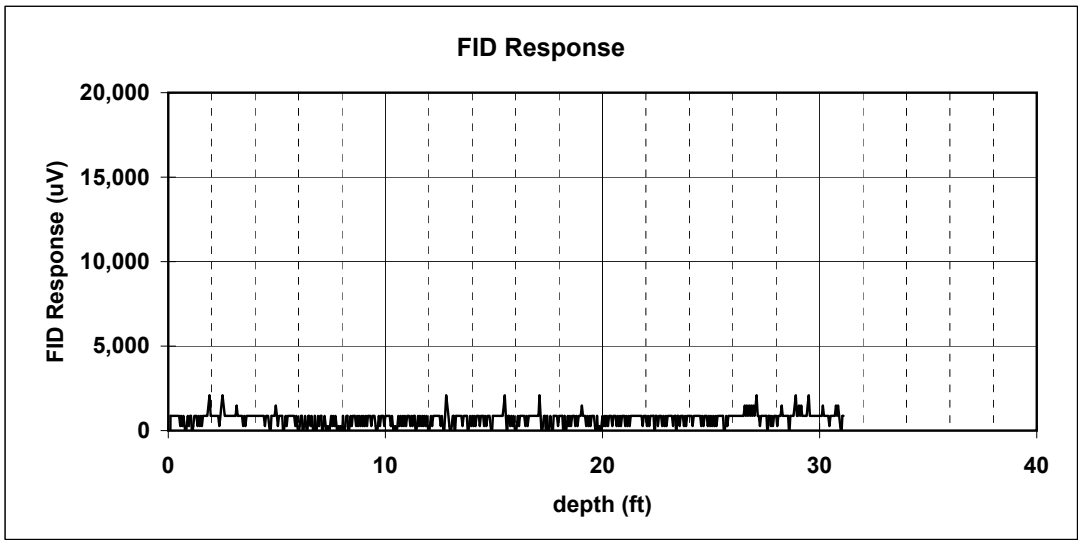
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)


Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
40
depth (ft)


Temperature
temp (C)
120
100
80
60
0
10
20
30
40
depth (ft)


FID Response
FID Response (uV)
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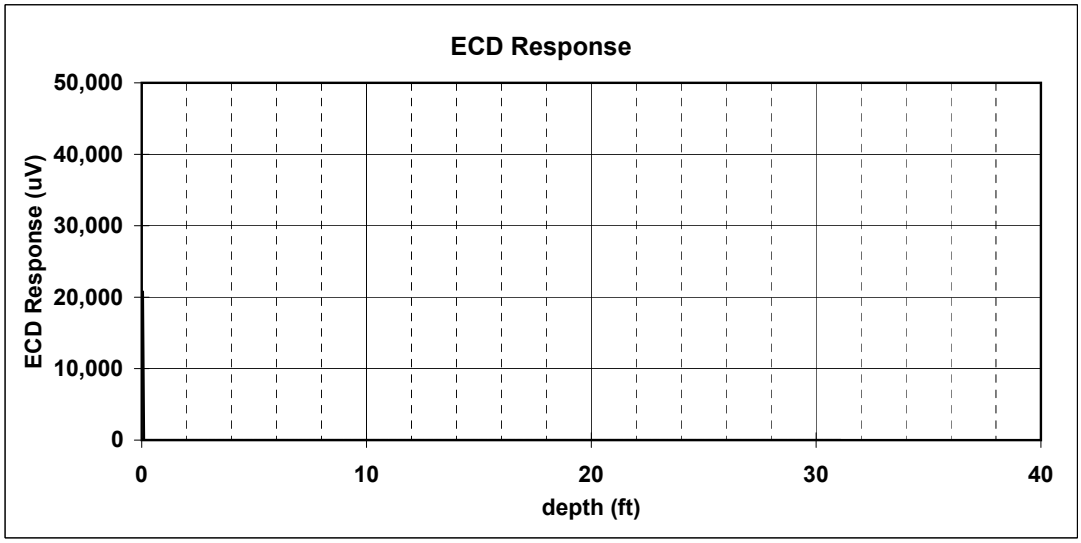
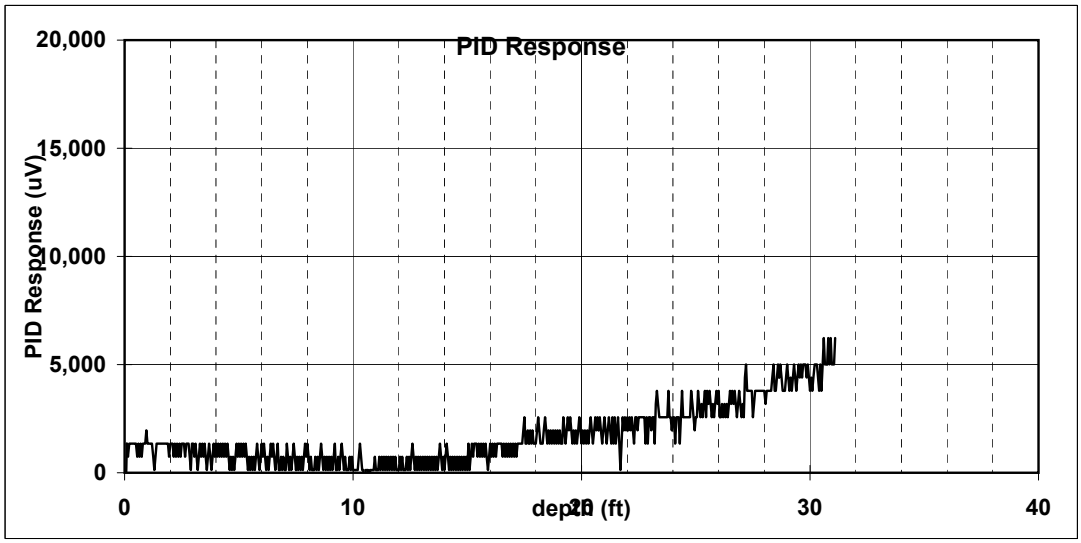
15,000
10,000
5,000
0
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
50,000
40,000
30,000
20,000
10,000
0
0
10
20
30
40
depth (ft)


PID Response
PID Response (uV)
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10,000
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0
0
10
20
30
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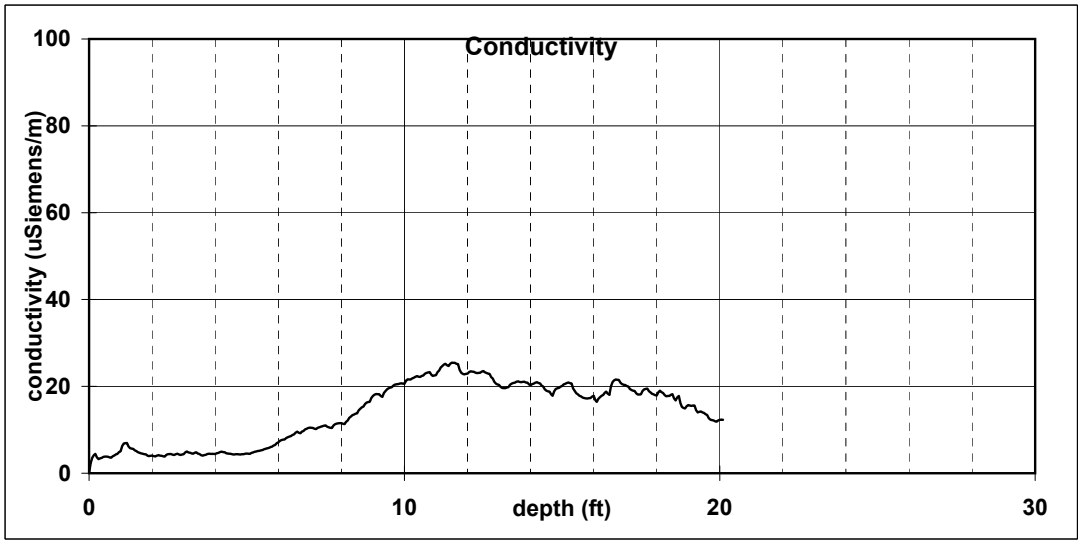
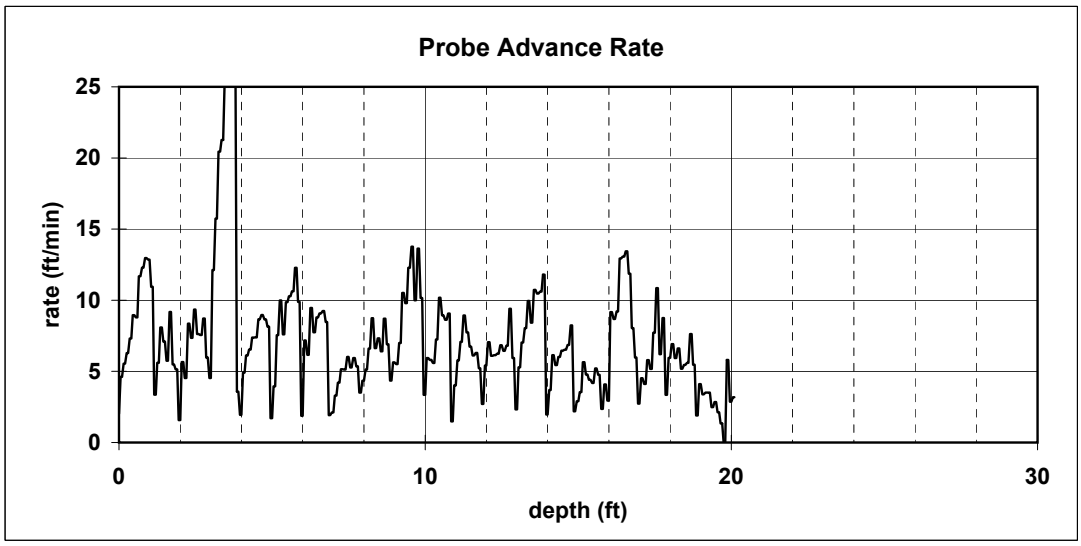
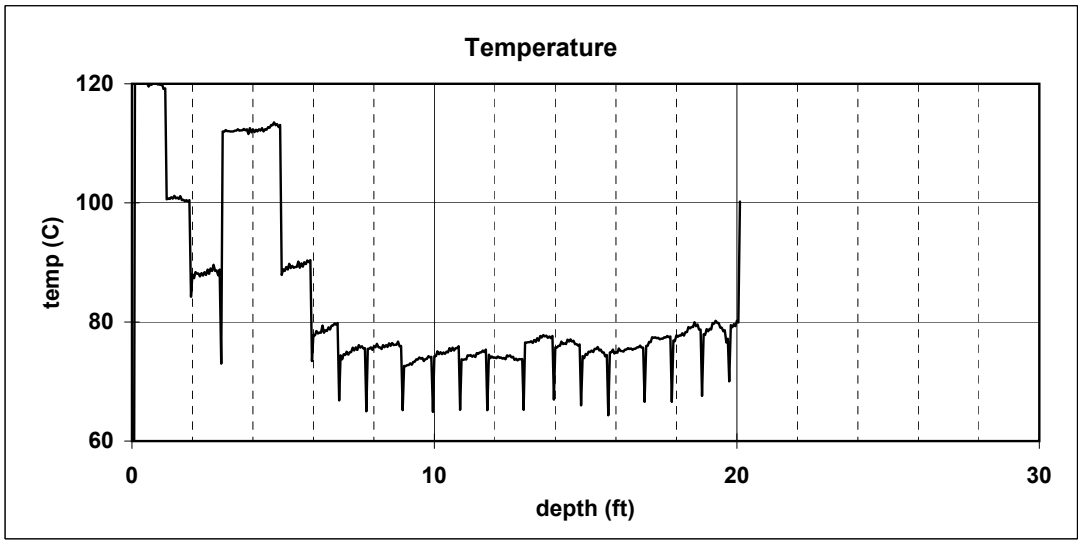
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
depth (ft)


Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
depth (ft)


Temperature
temp (C)
120
100
80
60
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10
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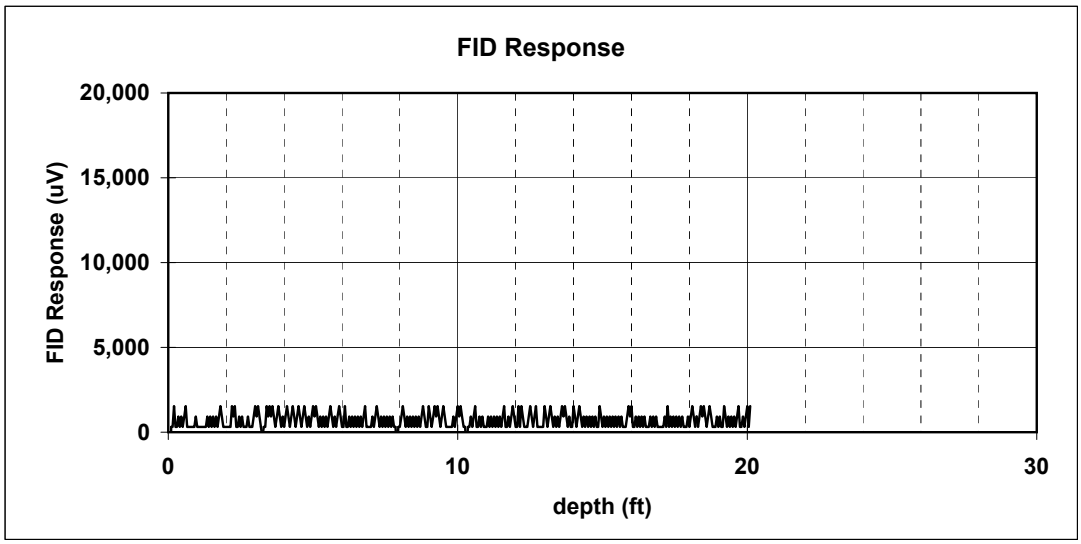
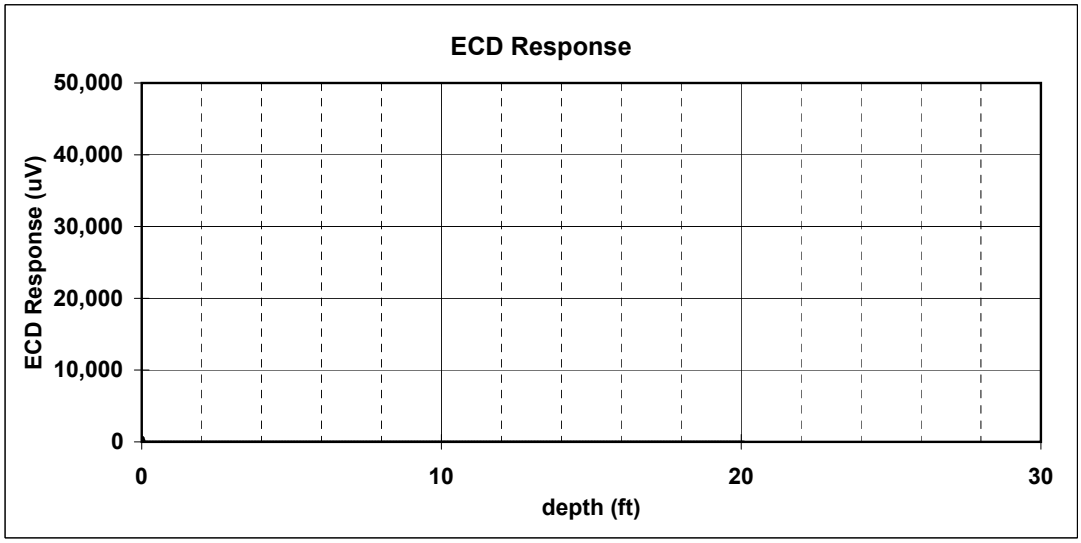
30
depth (ft)


FID Response
FID Response (uV)
20,000
15,000
10,000
5,000
0
0
10
20
30
depth (ft)


ECD Response
ECD Response (uV)
50,000
40,000
30,000
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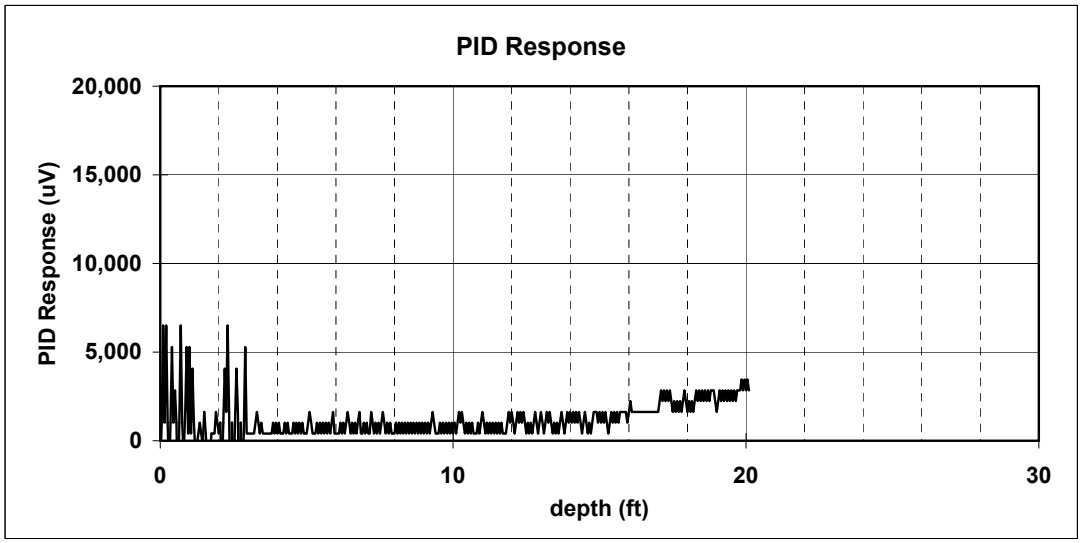
0
0
10
20
30
depth (ft)


PID Response
PID Response (uV)
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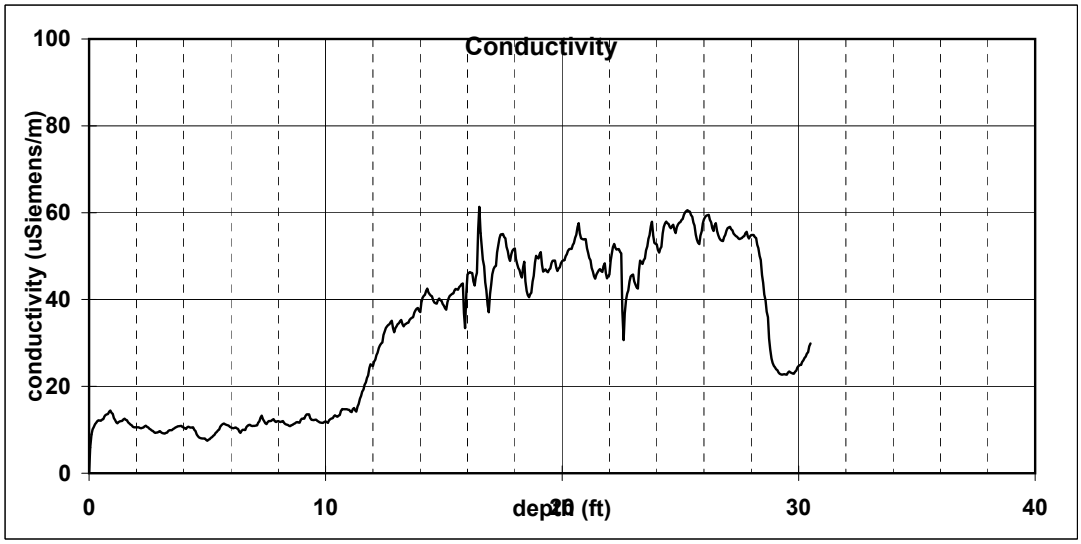
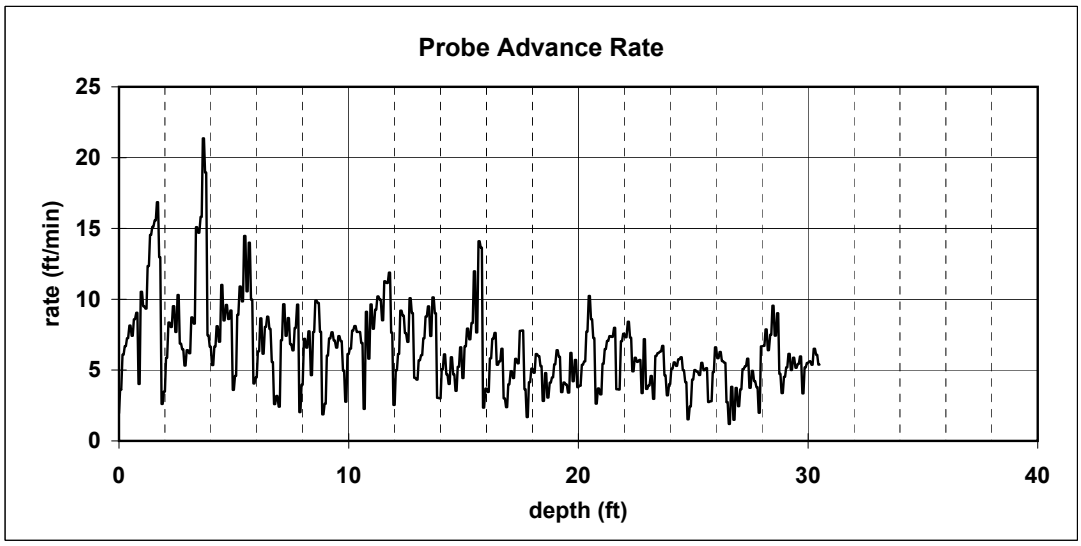
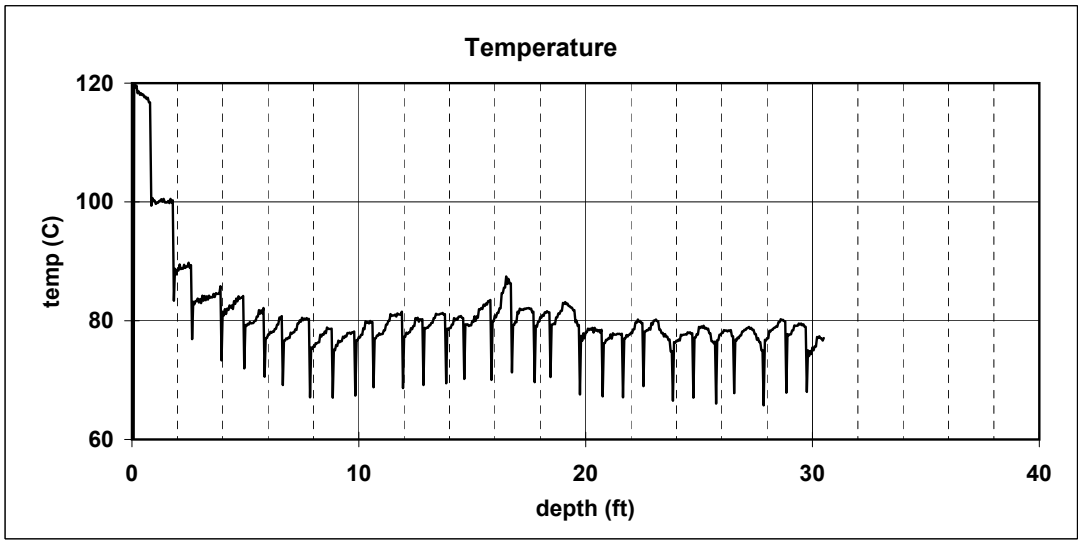
0
10
20
30
depth (ft)


Conductivity
conductivity (uSiemens/m)
100
80
60
40
20
0
0
10
20
30
40
depth (ft)


Probe Advance Rate
rate (ft/min)
25
20
15
10
5
0
0
10
20
30
40
depth (ft)


Temperature
temp (C)
120
100
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10
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30
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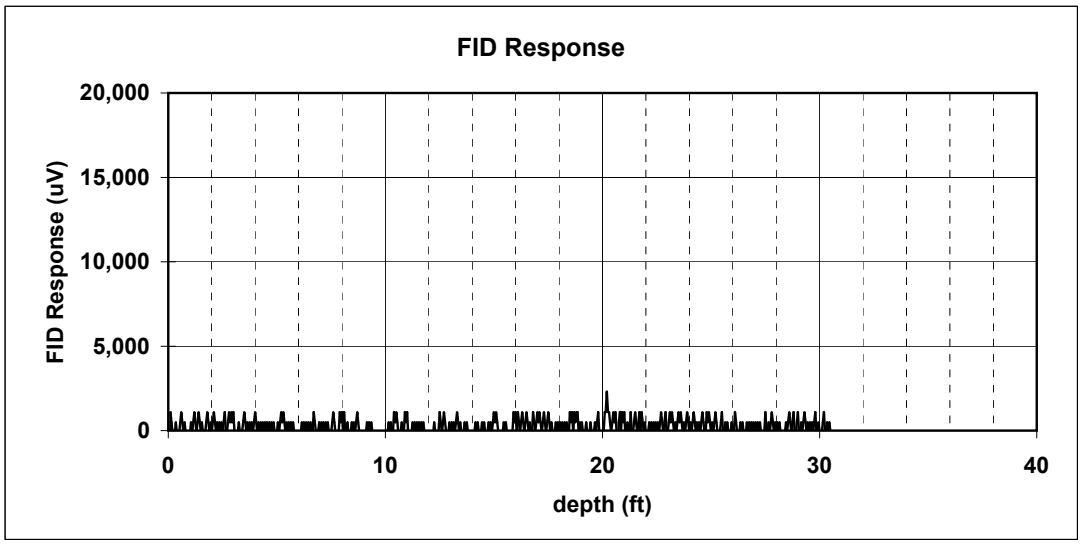
depth (ft)


FID Response
FID Response (uV)
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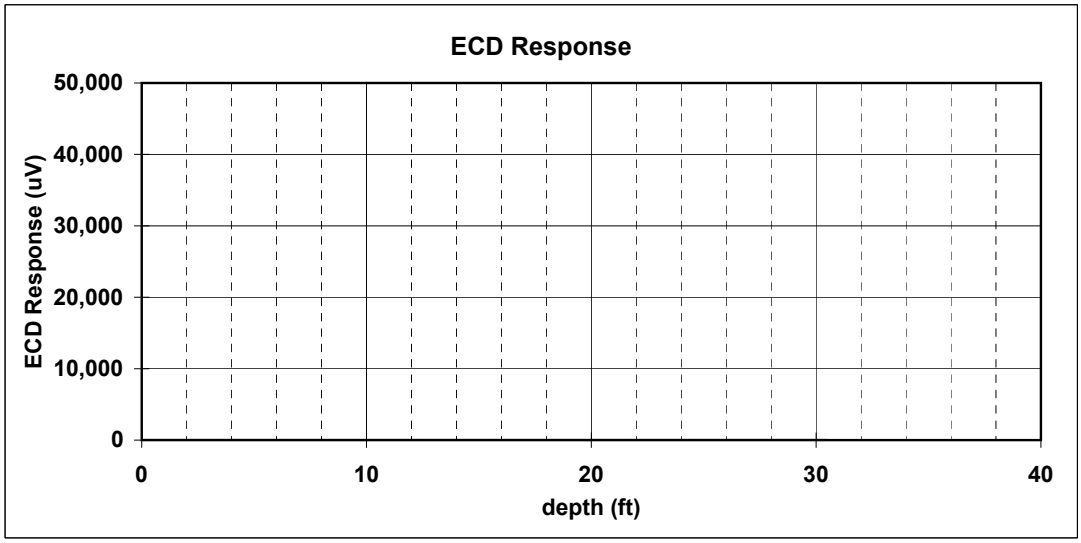
0
10
20
30
40
depth (ft)


ECD Response
ECD Response (uV)
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0
10
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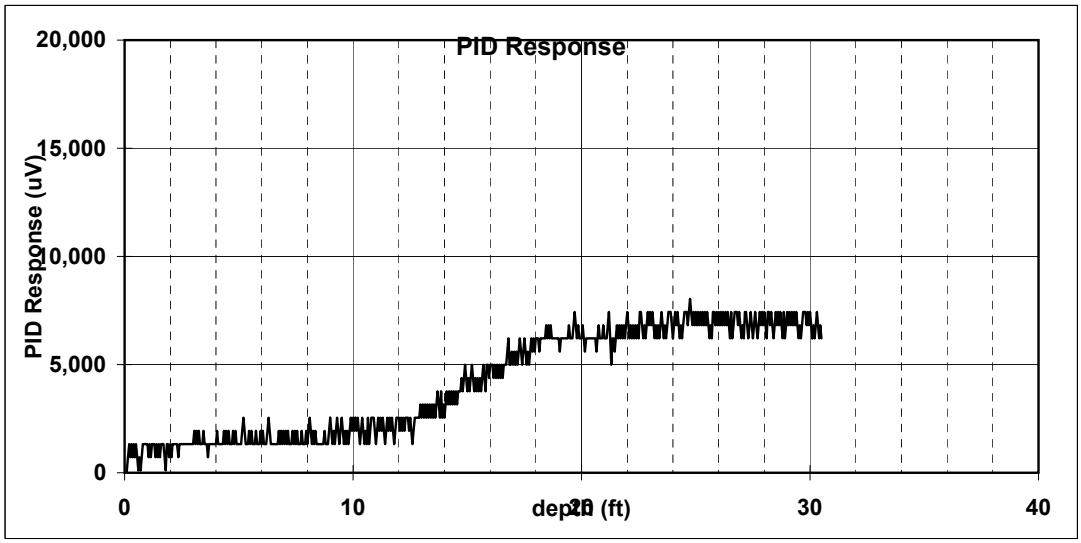
30
40
depth (ft)


PID Response
PID Response (uV)
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20
30
40
depth (ft)