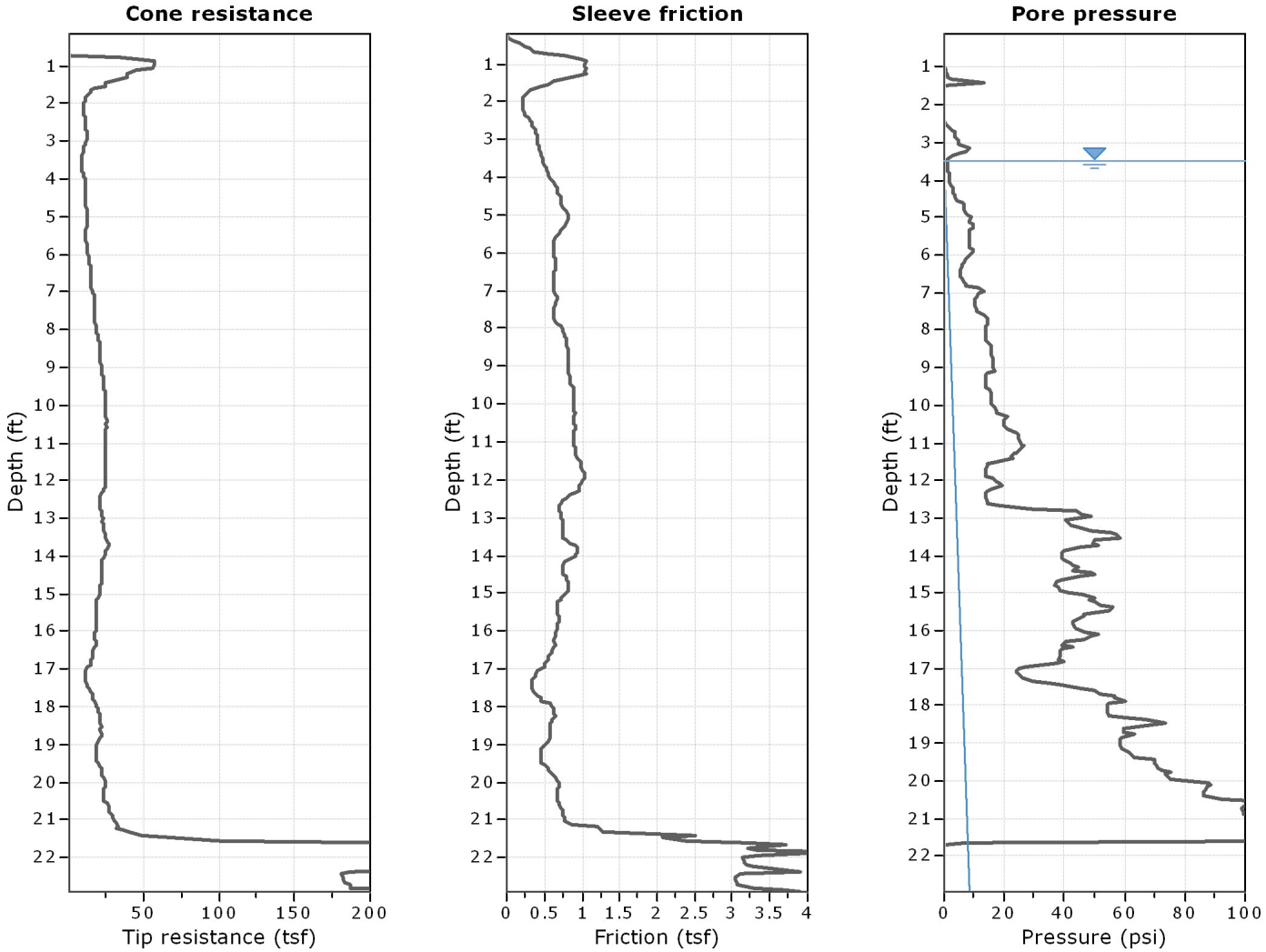
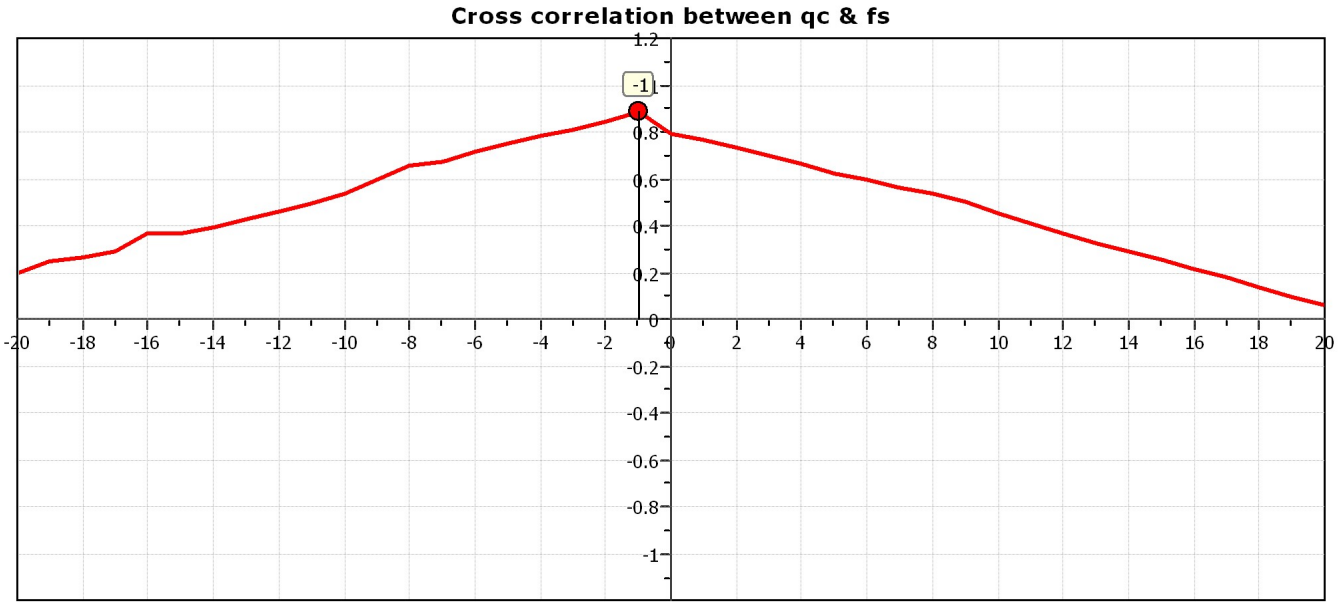
Geotechnology, Inc.
11816 Lackland Road, Suite 150
St. Louis, Missouri 63146
http://www.geotechnology.com

Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-40a
Total depth: 22.90 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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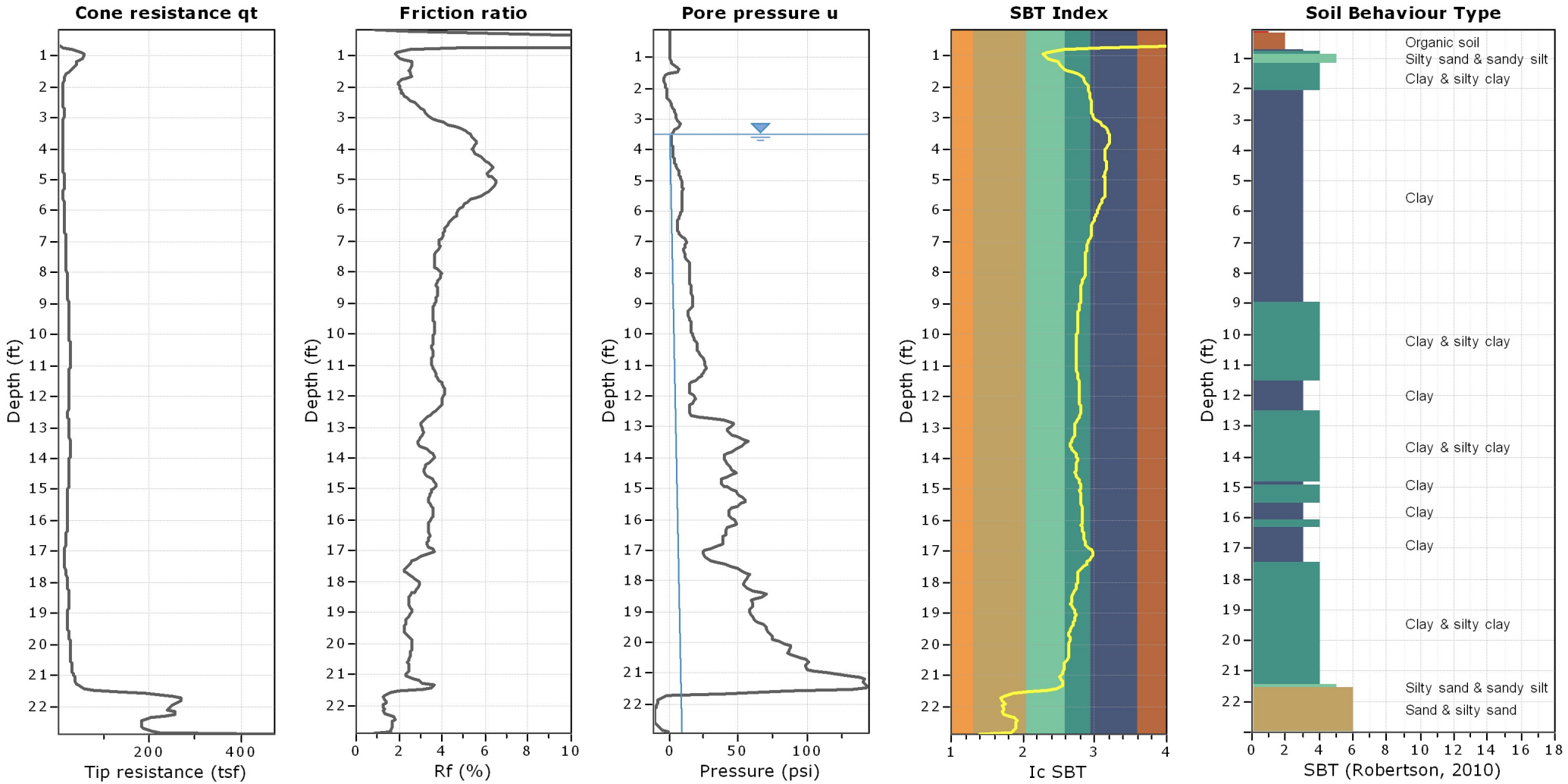
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-40a
Total depth: 22.90 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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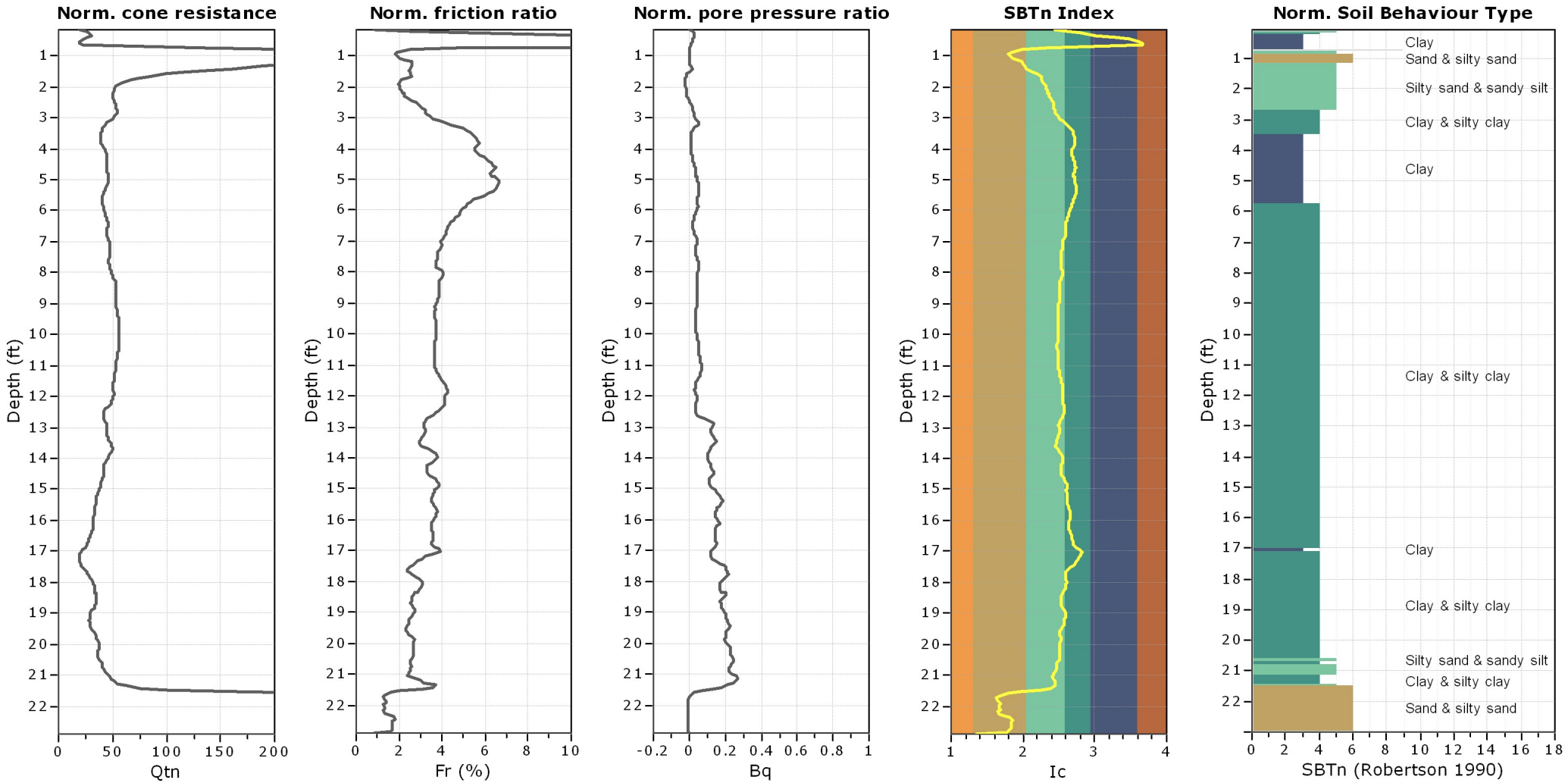
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-40a
Total depth: 22.90 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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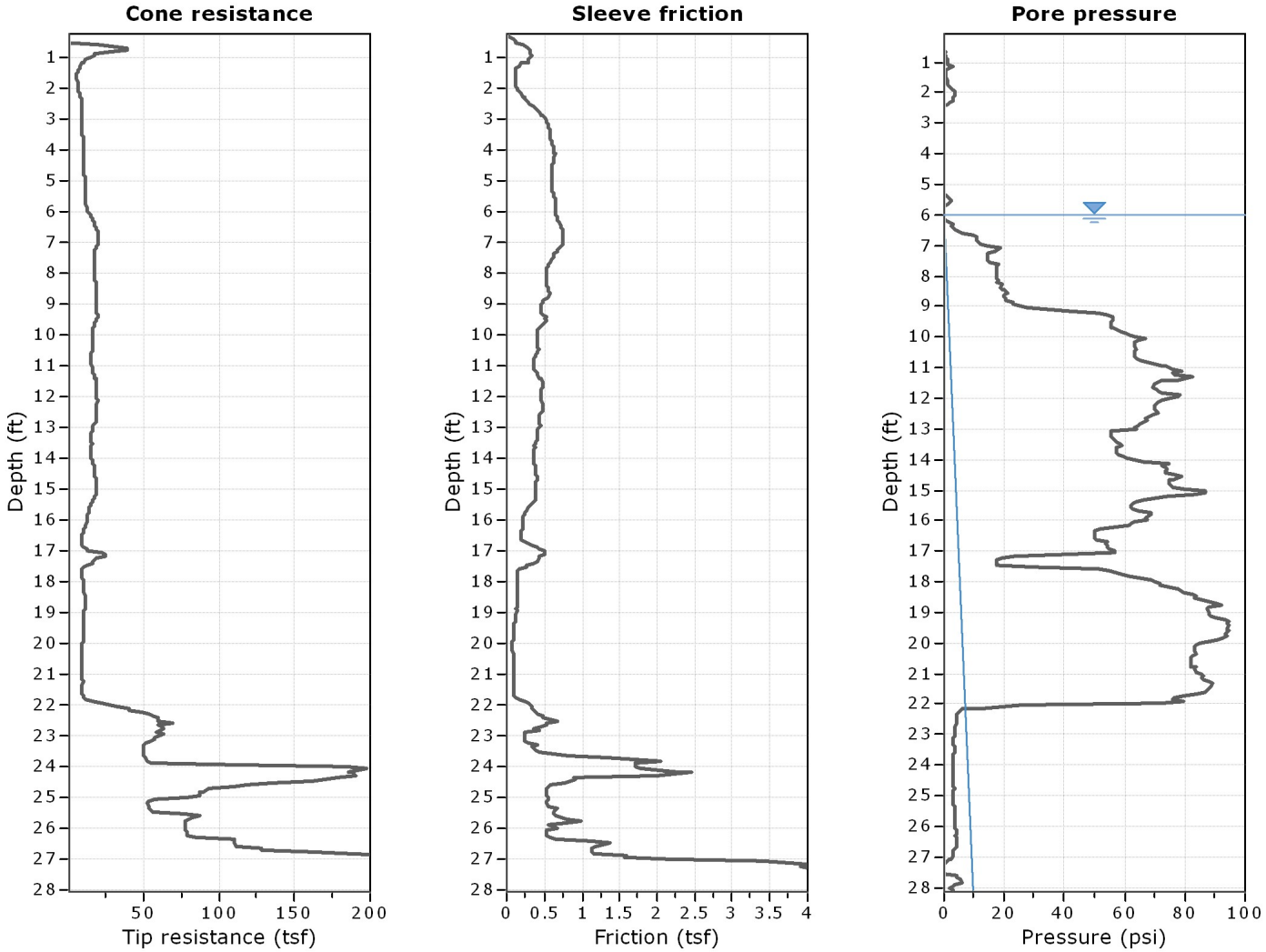
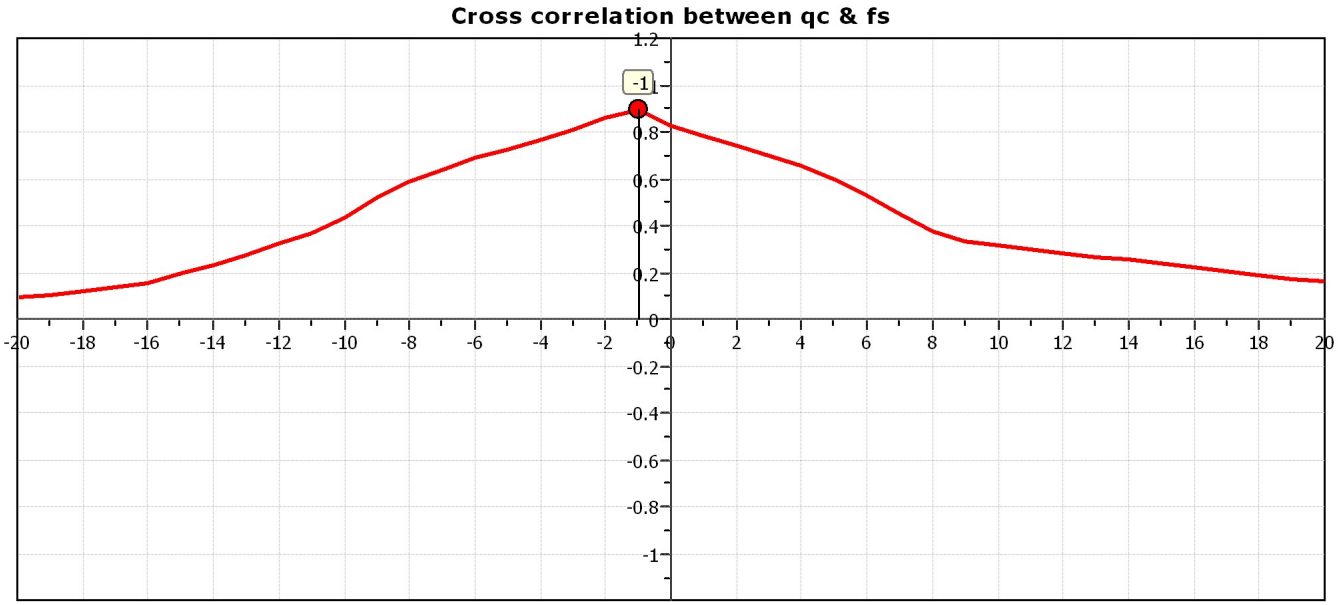
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-44
Total depth: 28.09 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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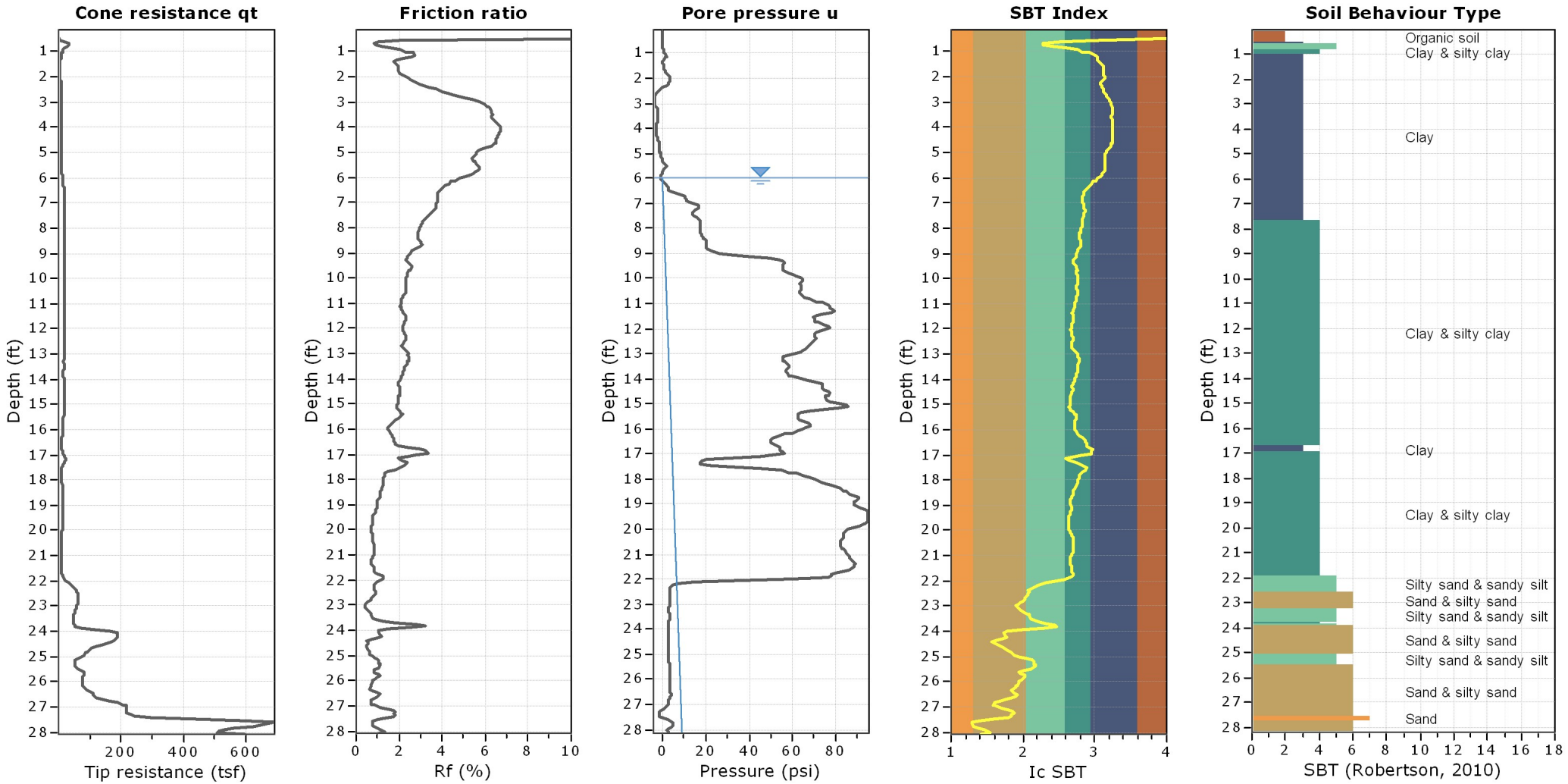
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-44
Total depth: 28.09 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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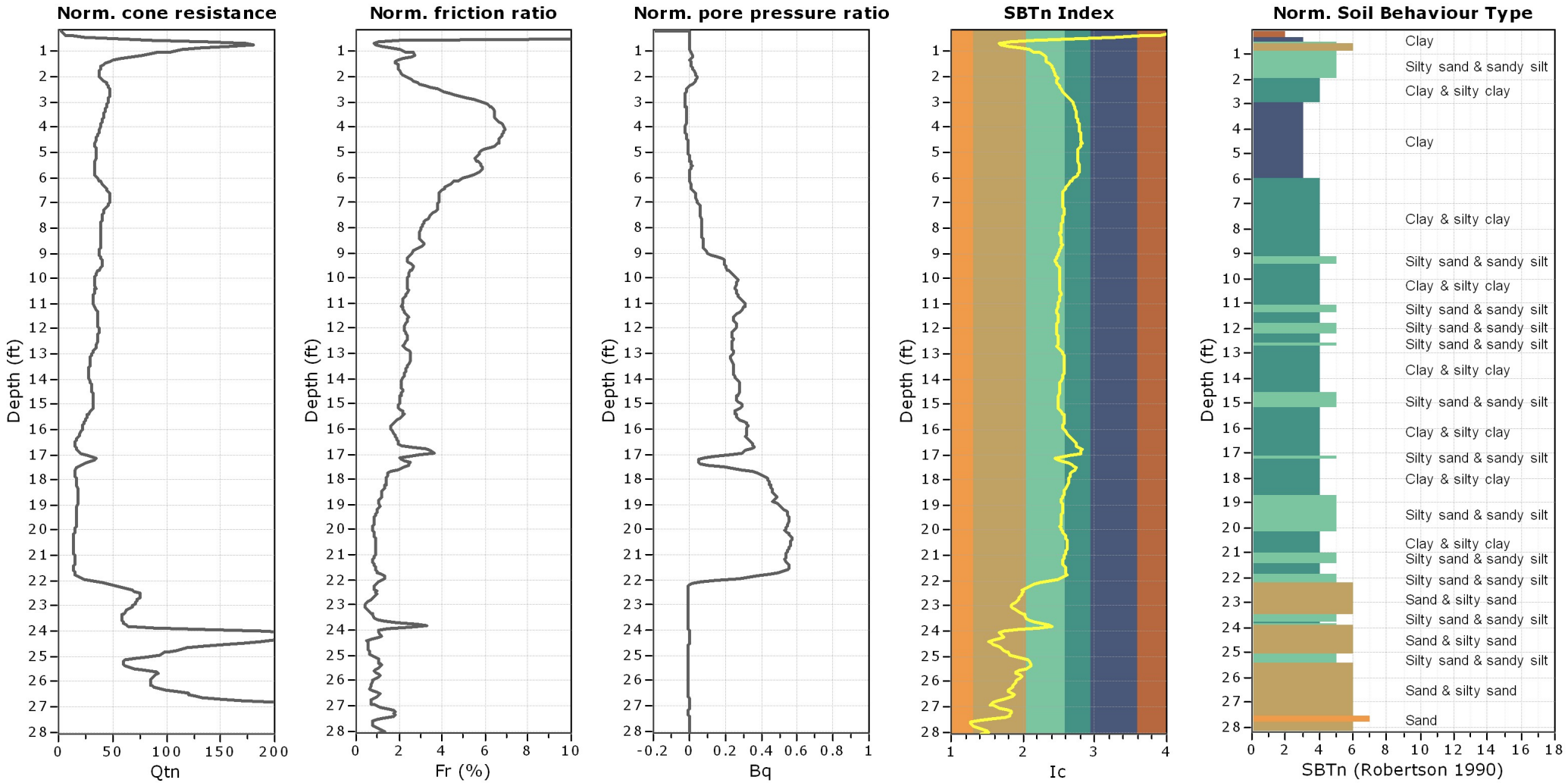
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-44
Total depth: 28.09 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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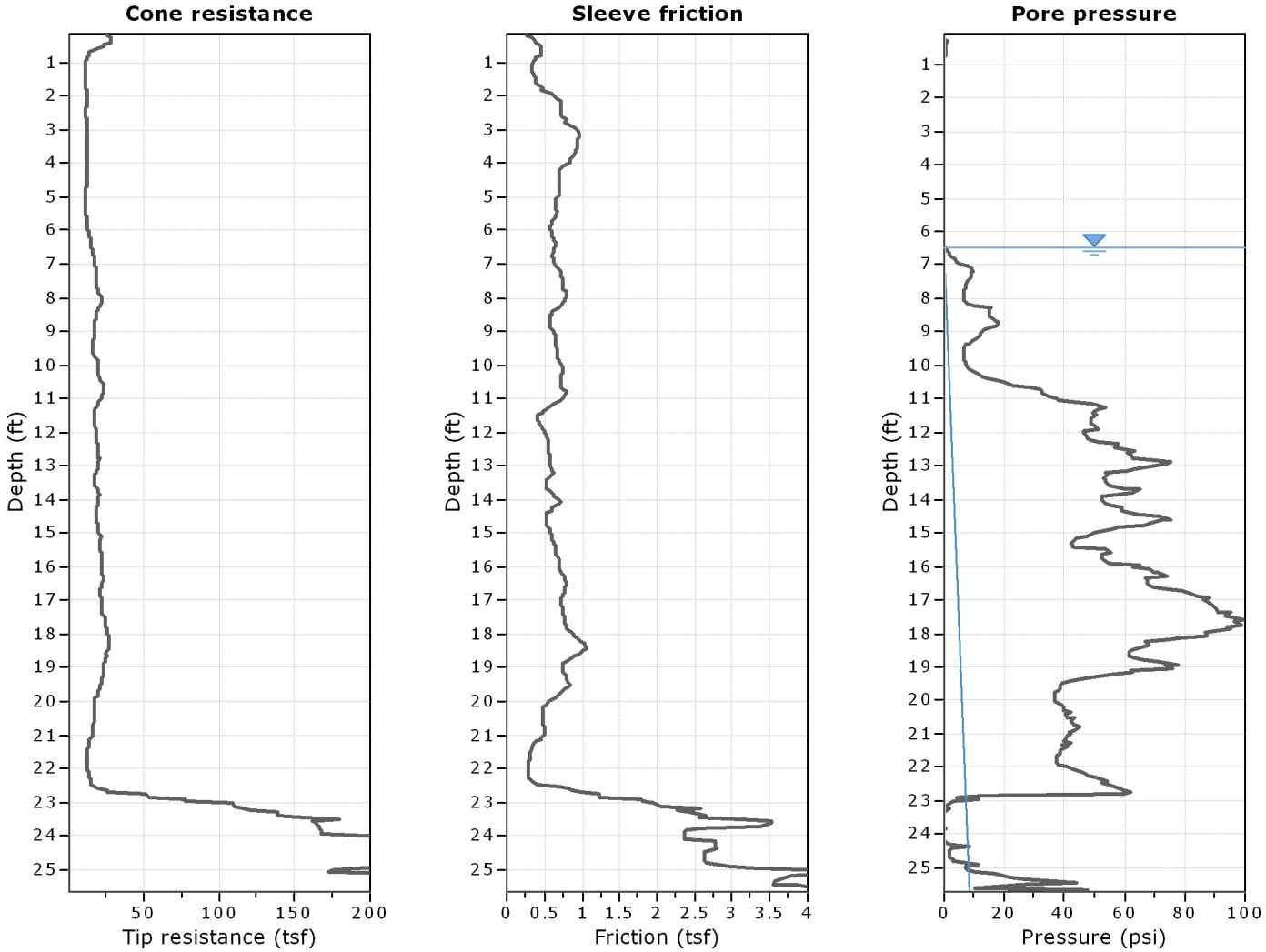
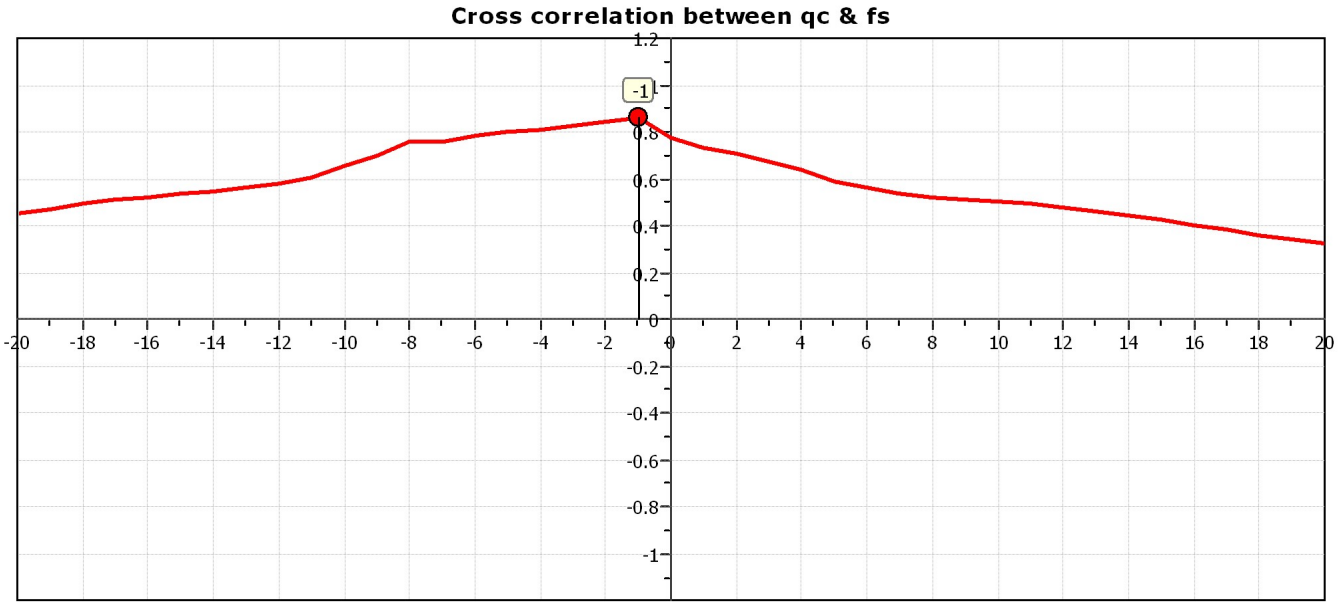
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-45
Total depth: 25.66 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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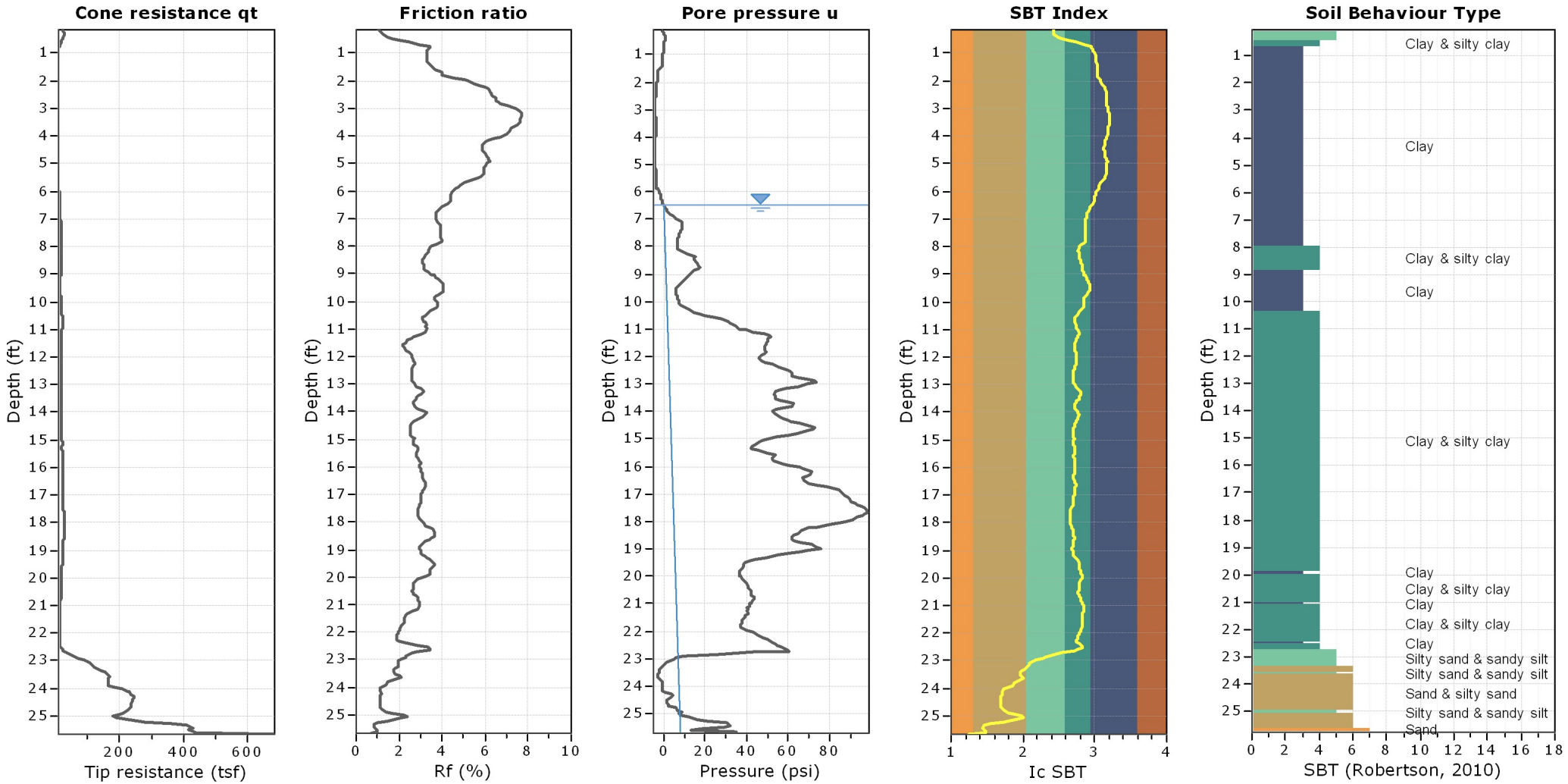
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-45
Total depth: 25.66 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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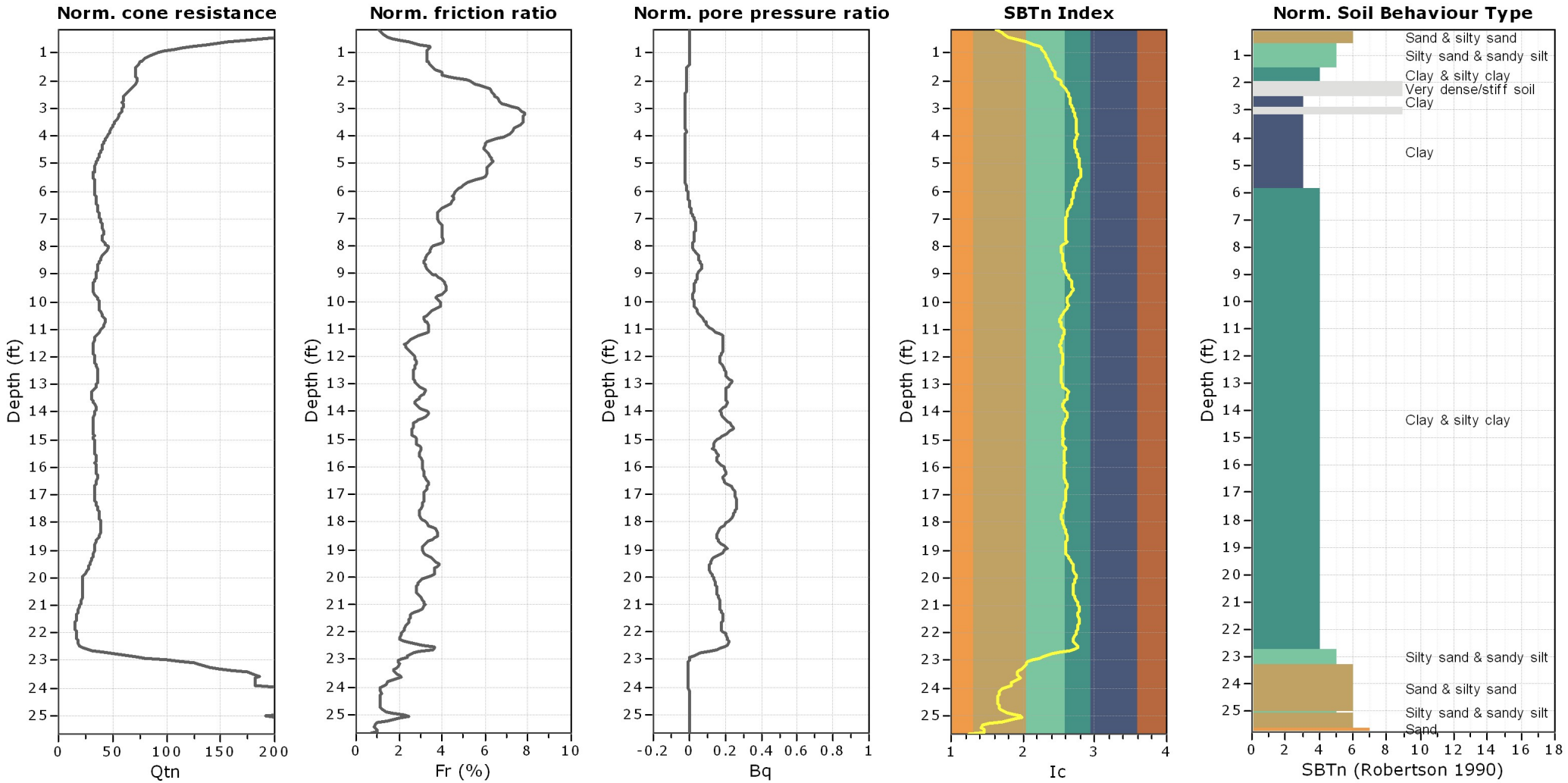
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-45
Total depth: 25.66 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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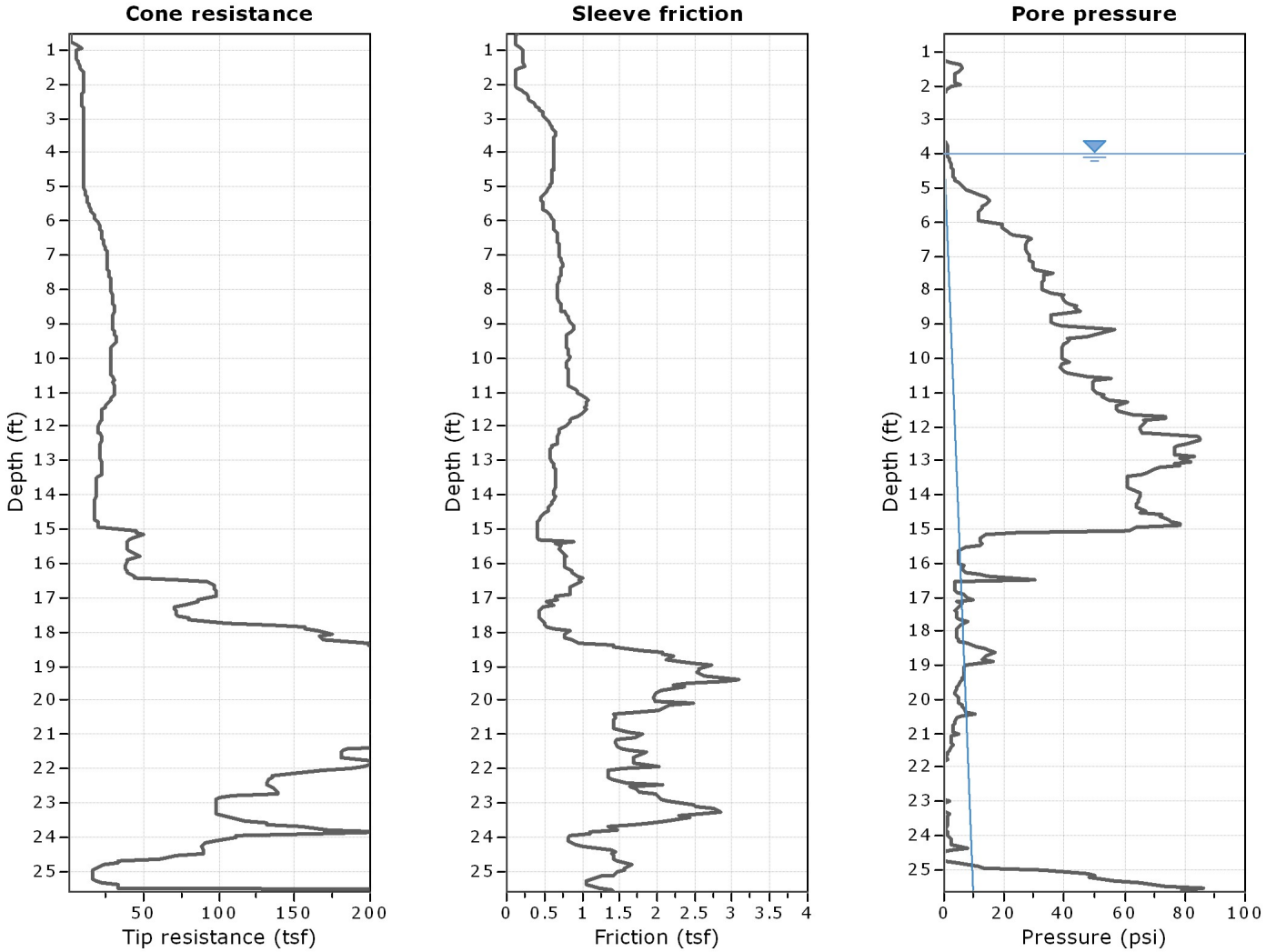
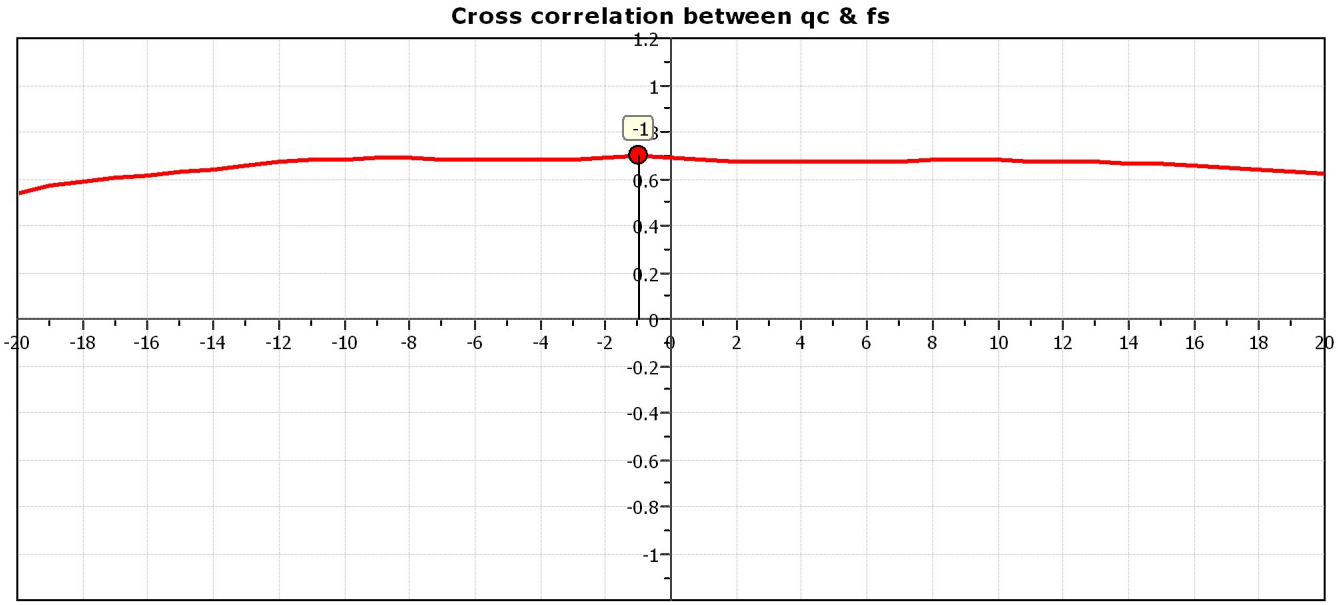
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-46
Total depth: 25.59 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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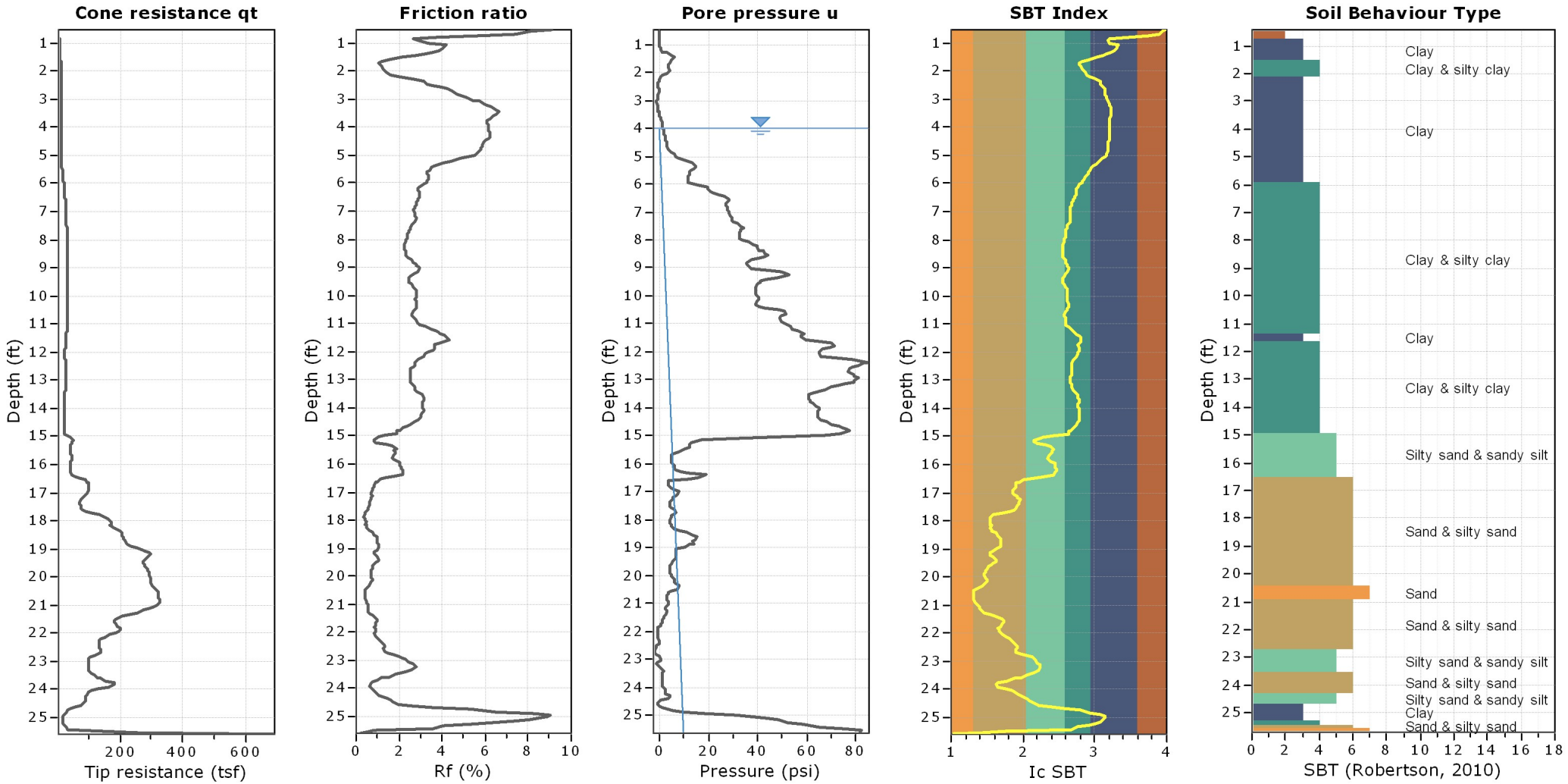
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-46
Total depth: 25.59 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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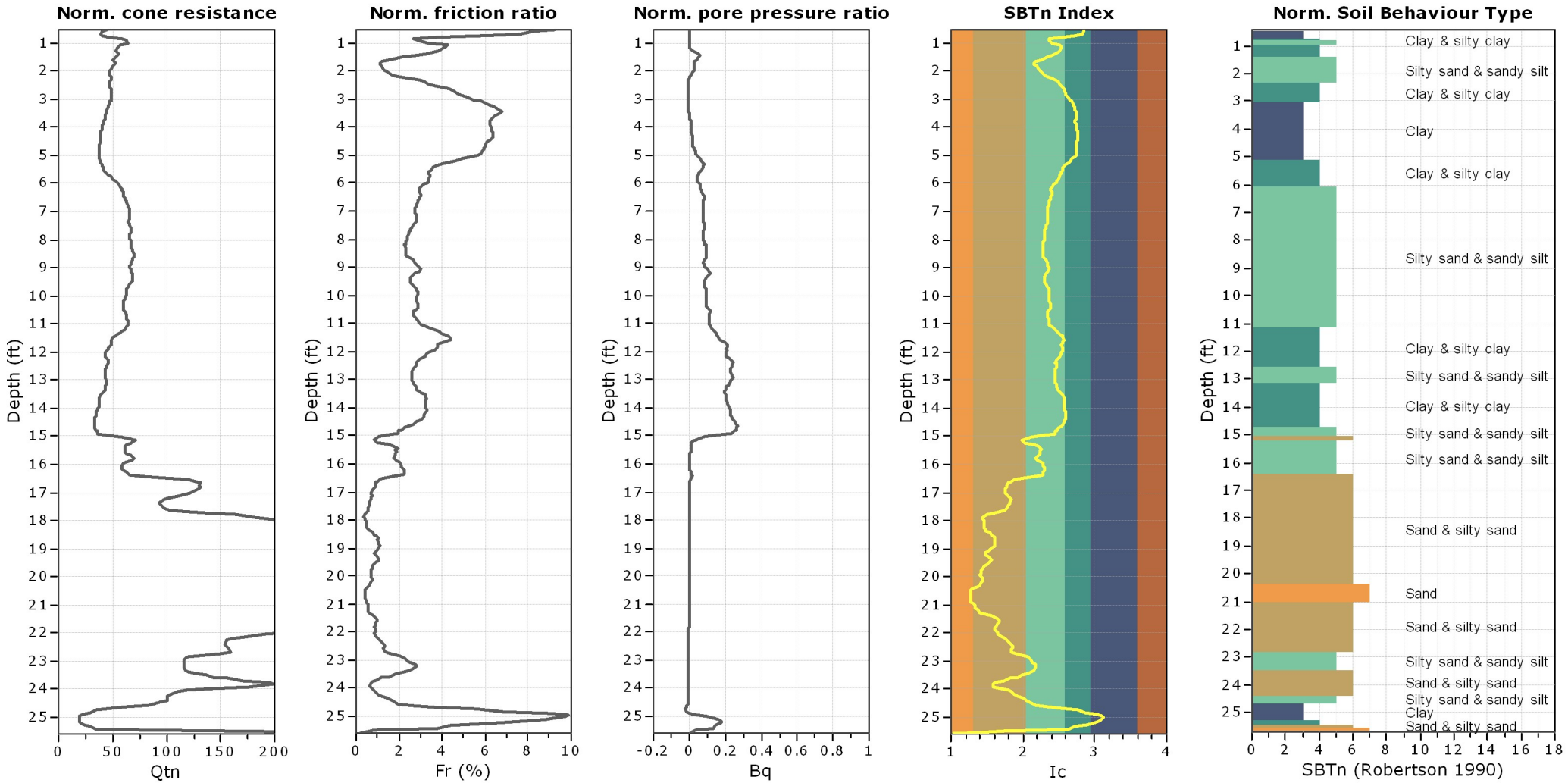
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-46
Total depth: 25.59 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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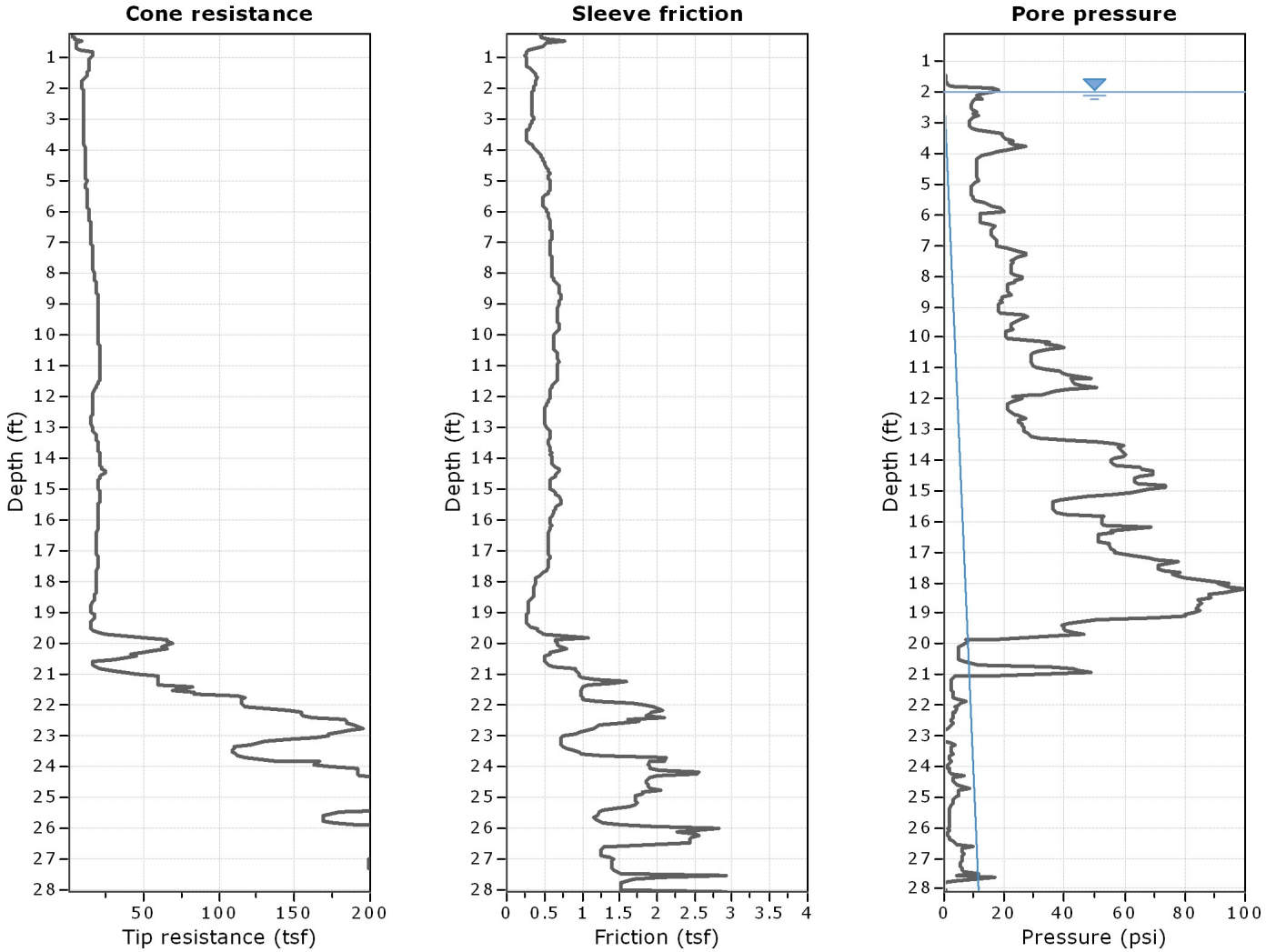
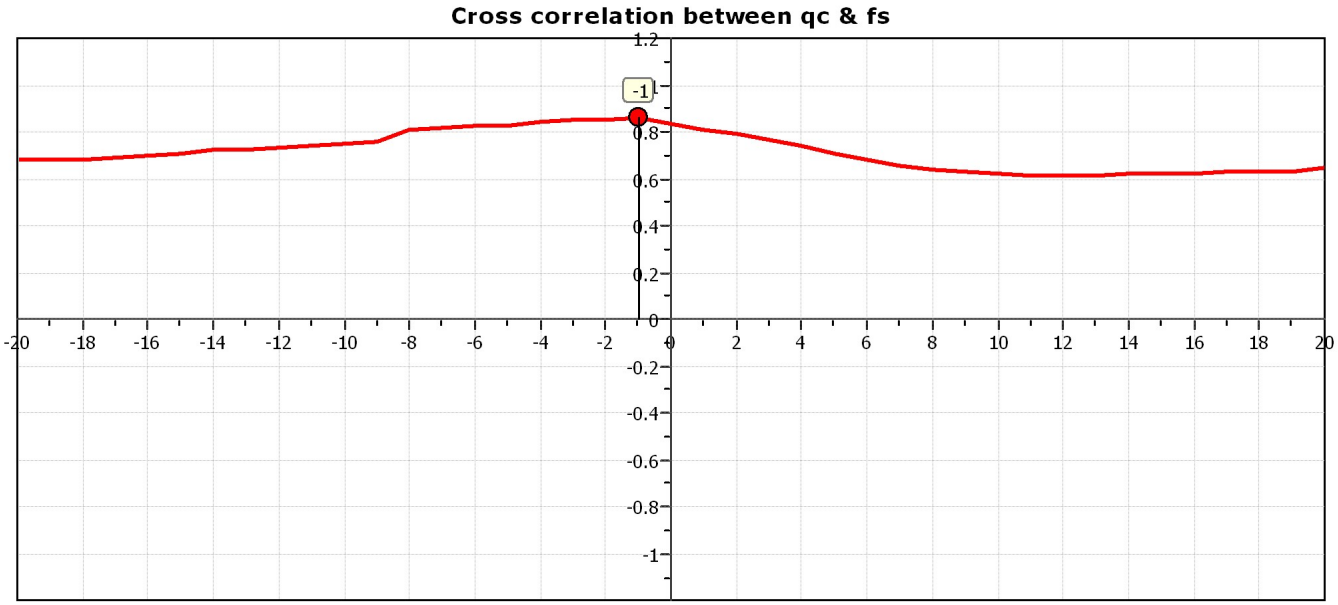
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-47
Total depth: 28.03 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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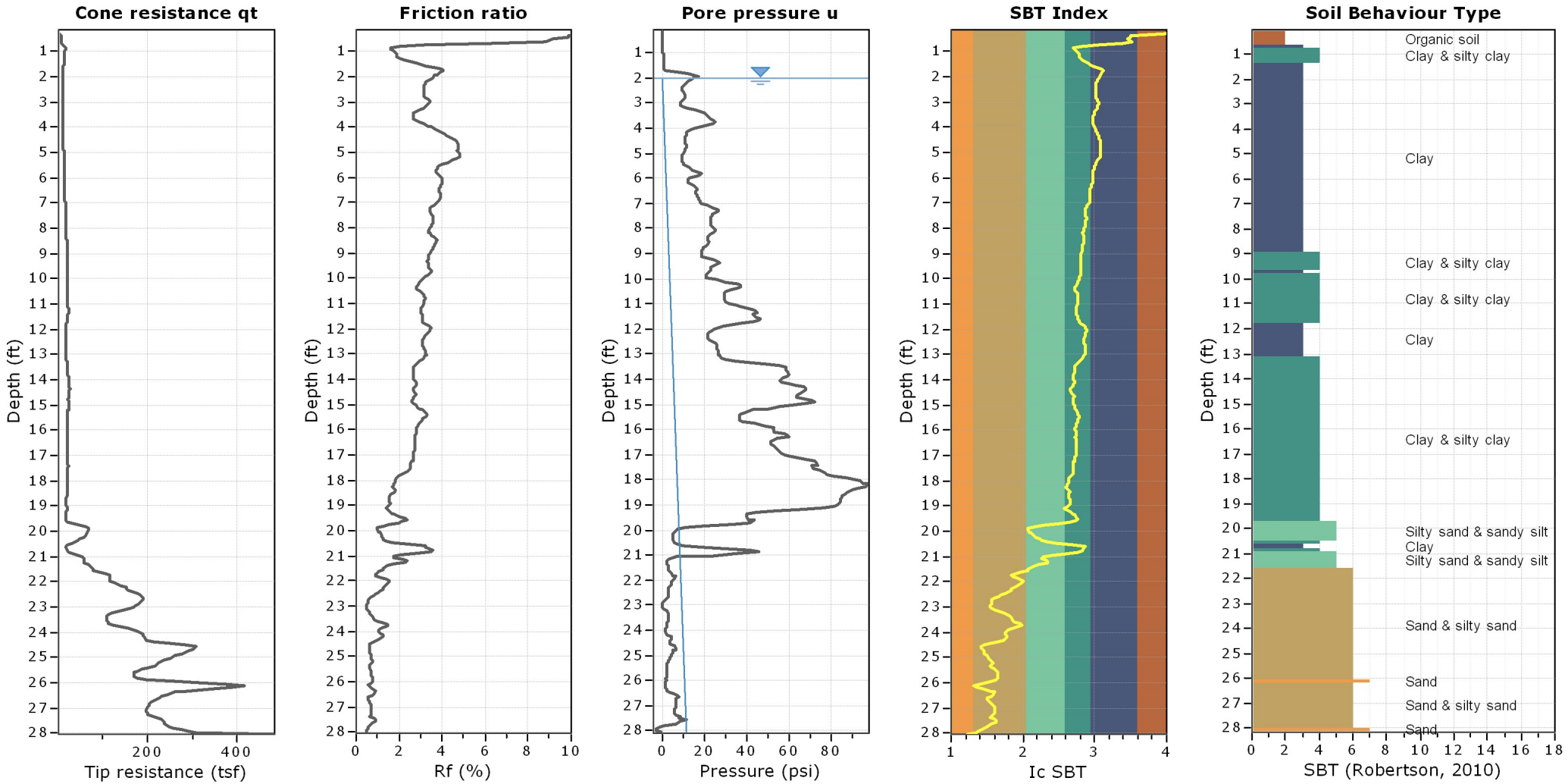
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-47
Total depth: 28.03 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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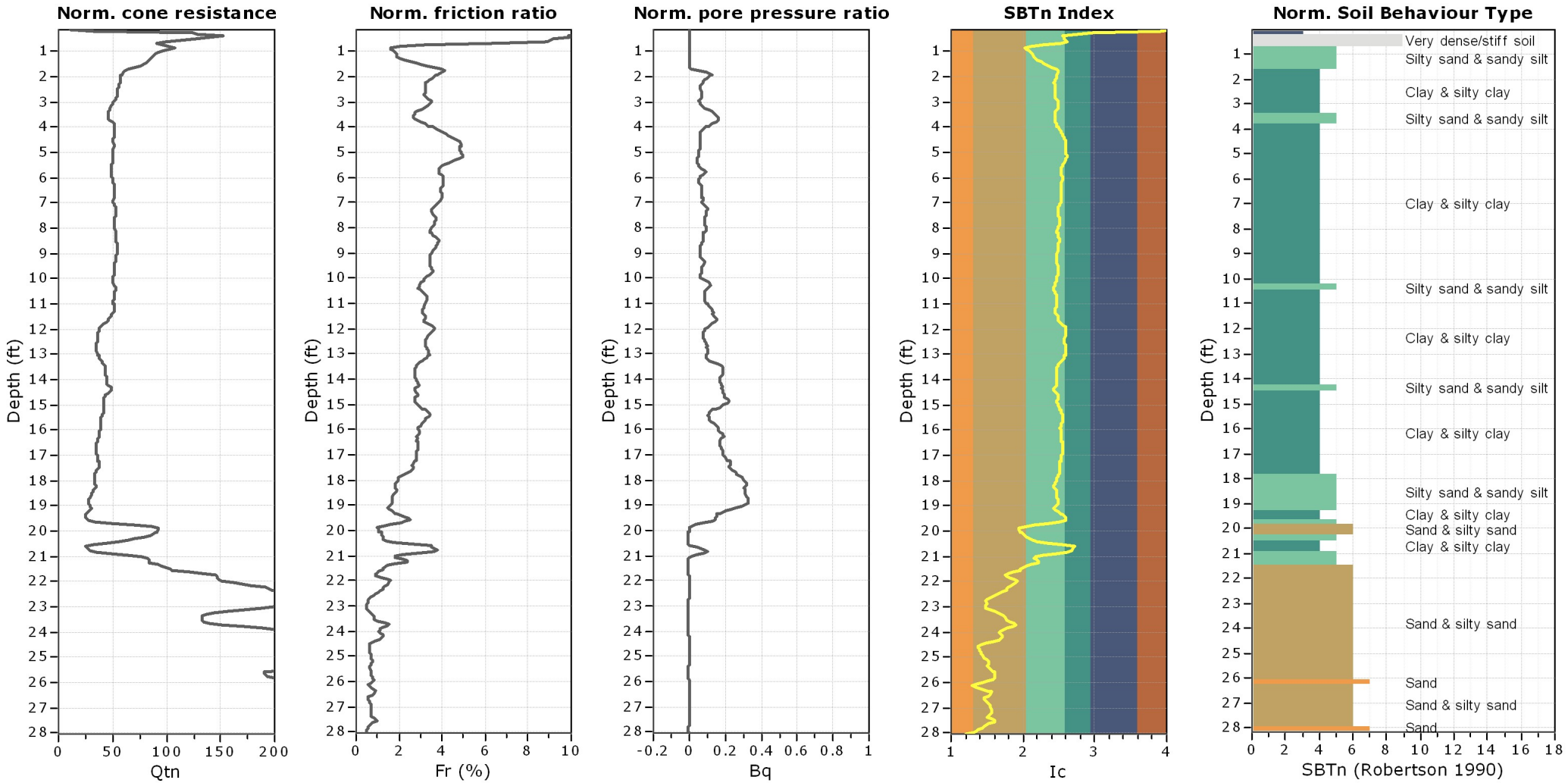
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-47
Total depth: 28.03 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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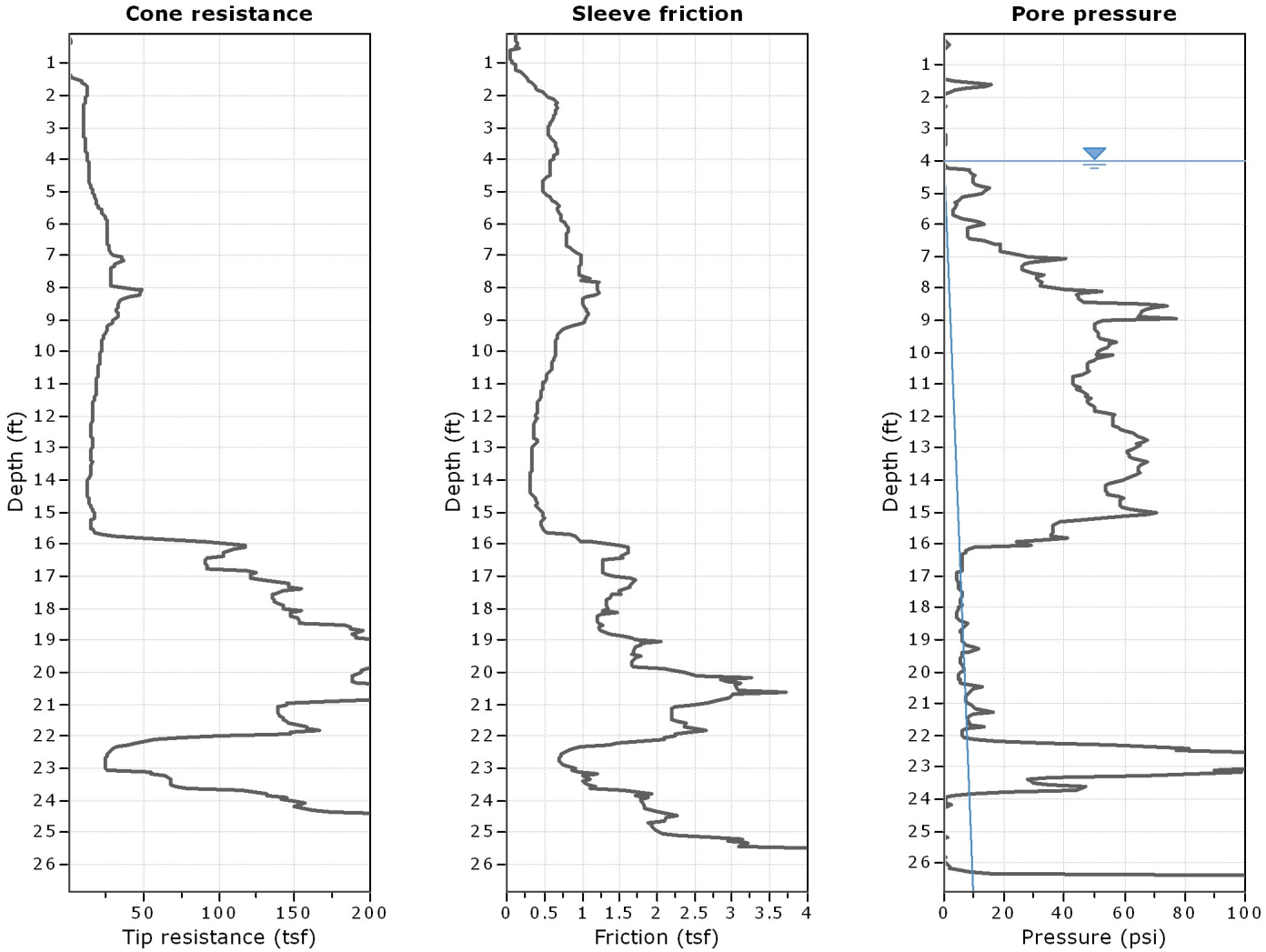
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-48
Total depth: 26.84 ft, Date: 10/2/2014



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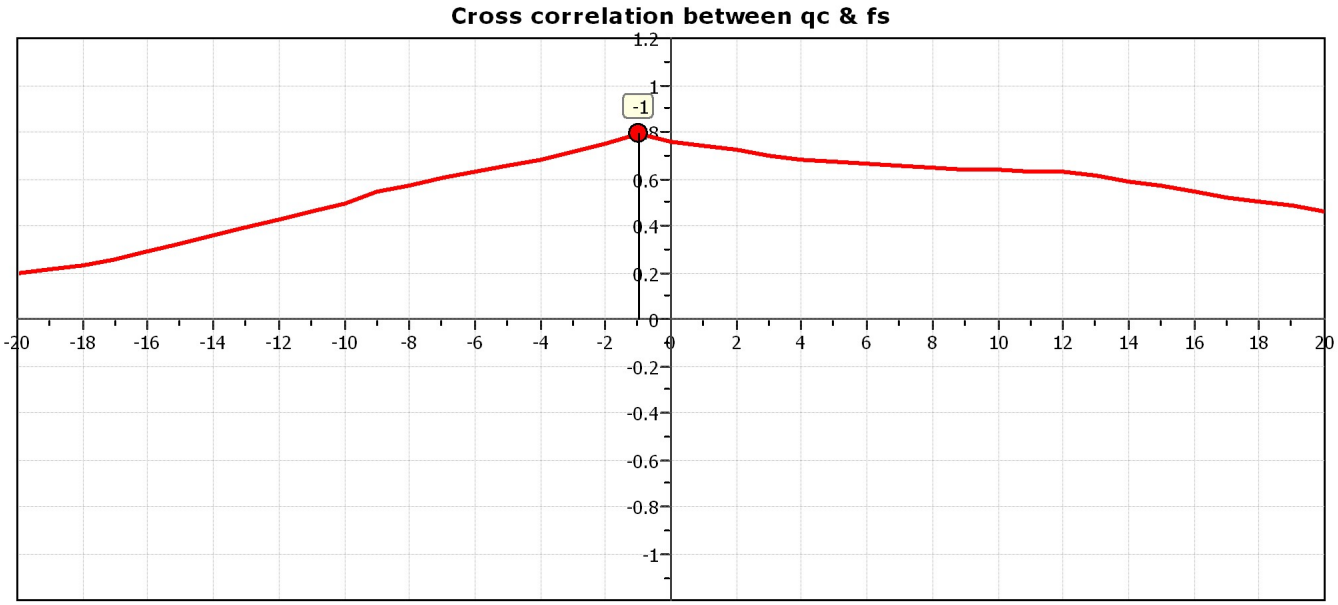

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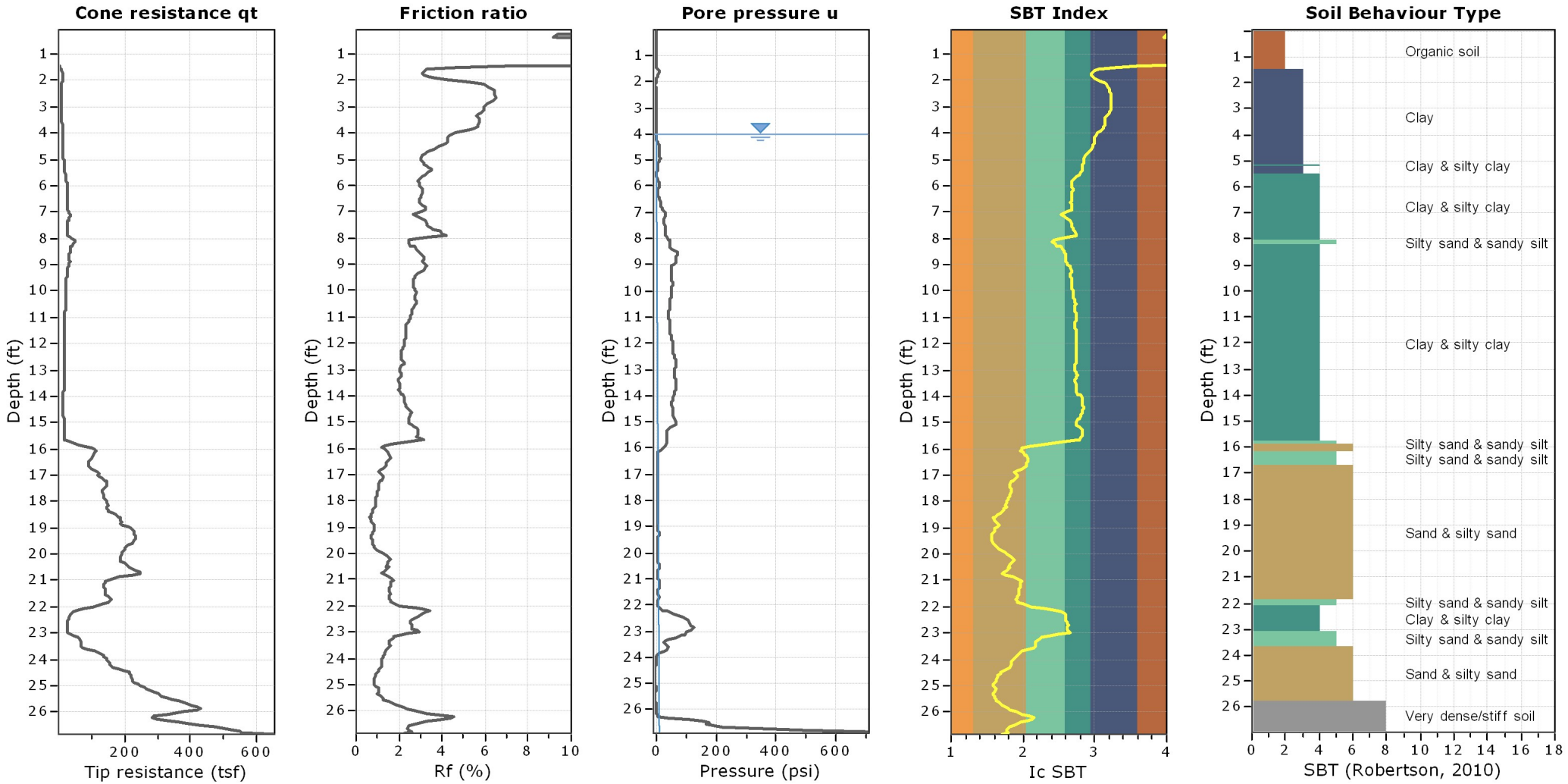
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-48
Total depth: 26.84 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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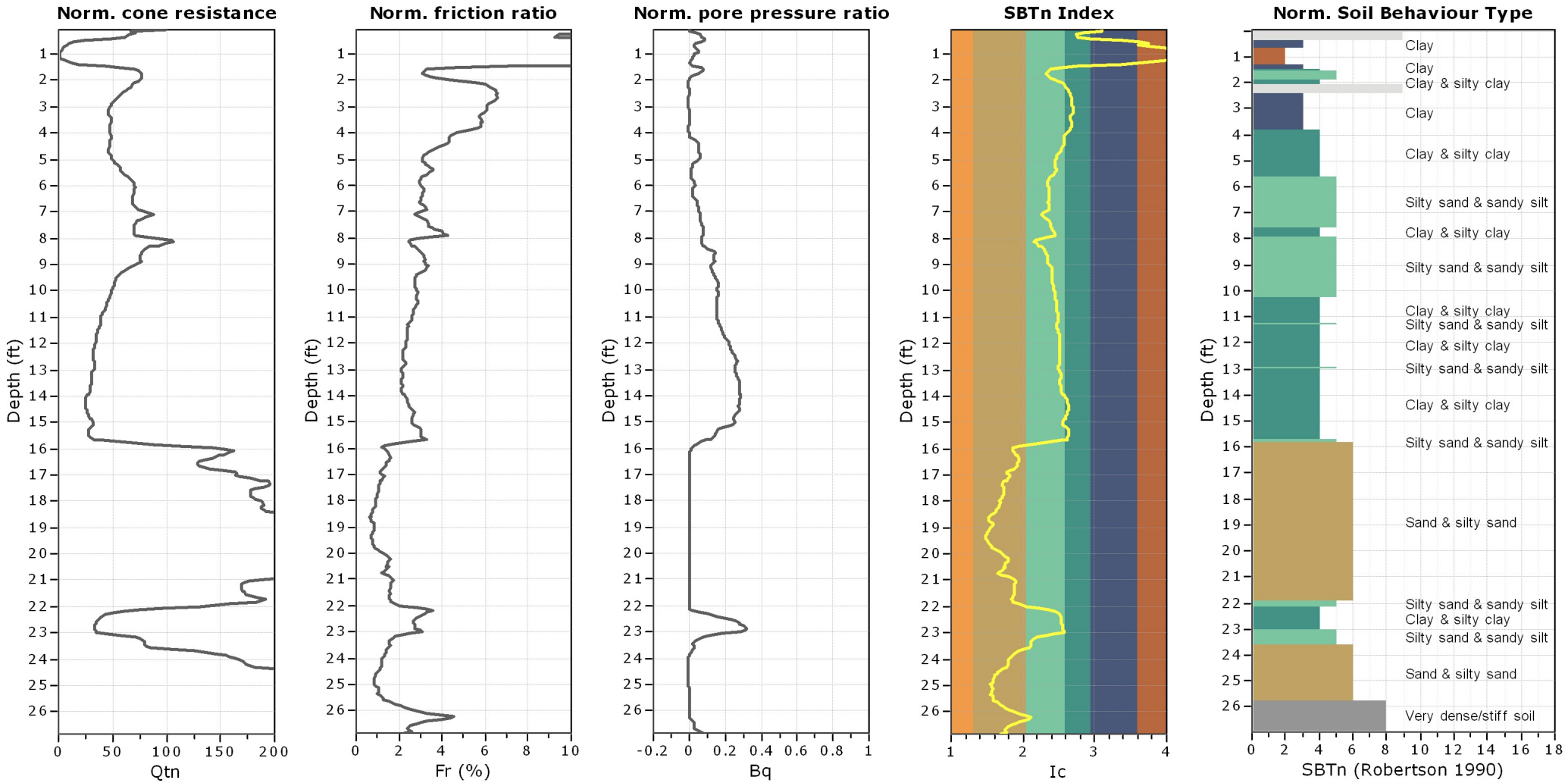
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-48
Total depth: 26.84 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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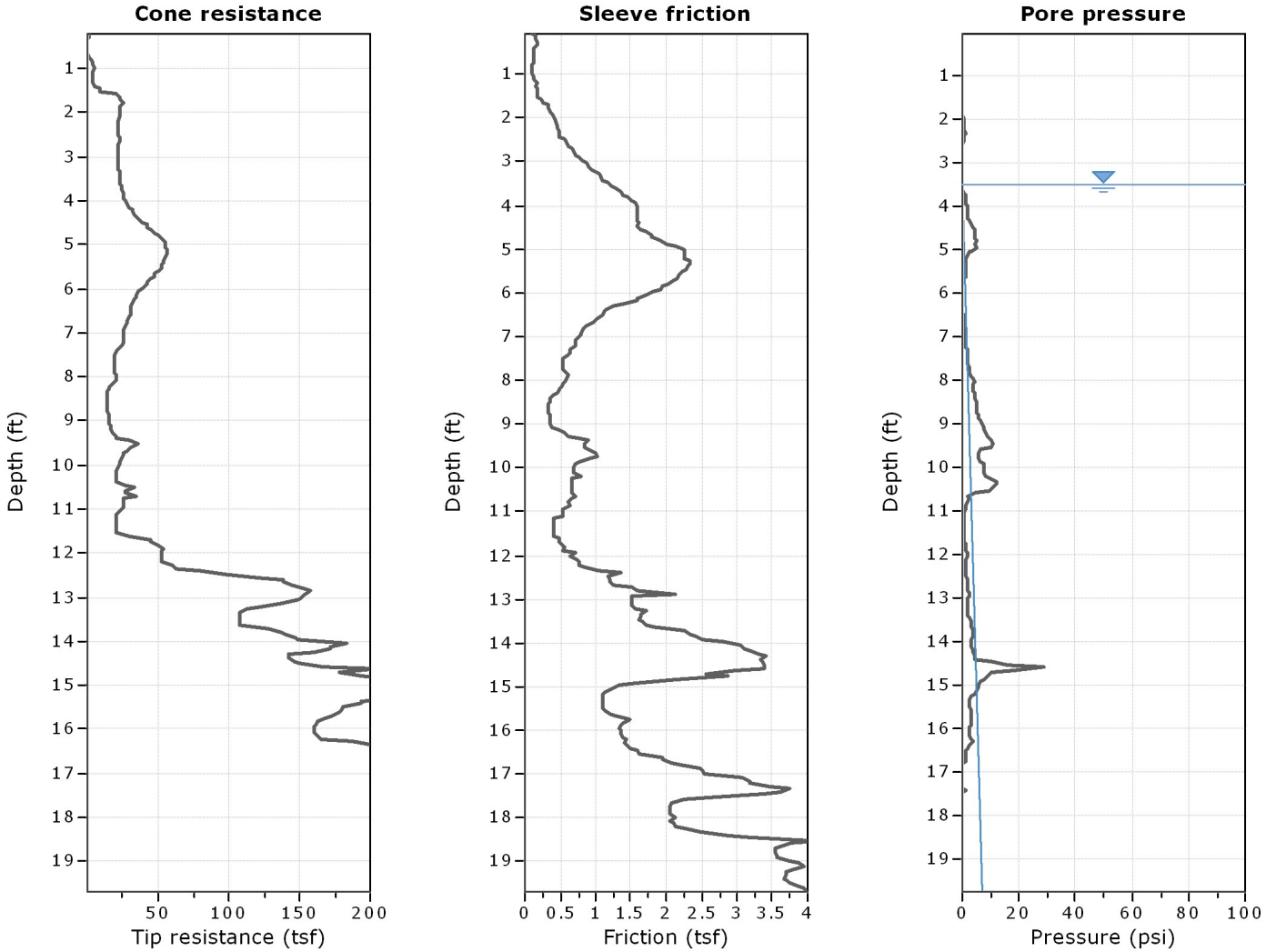
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-49
Total depth: 19.69 ft, Date: 10/2/2014



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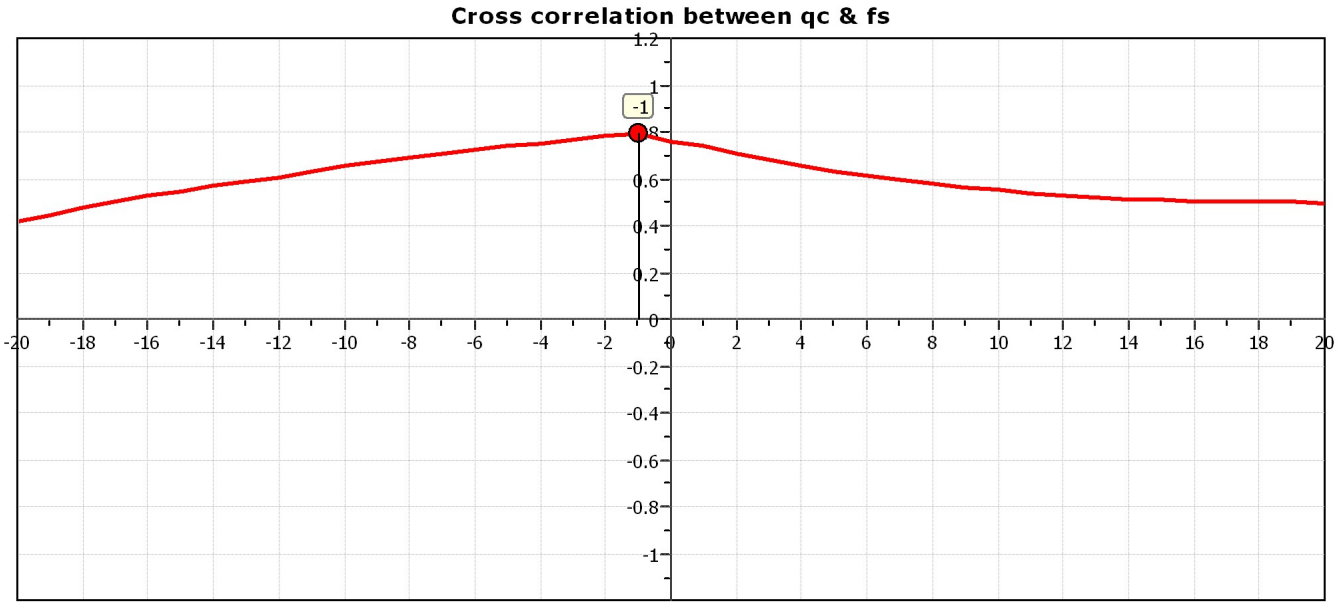

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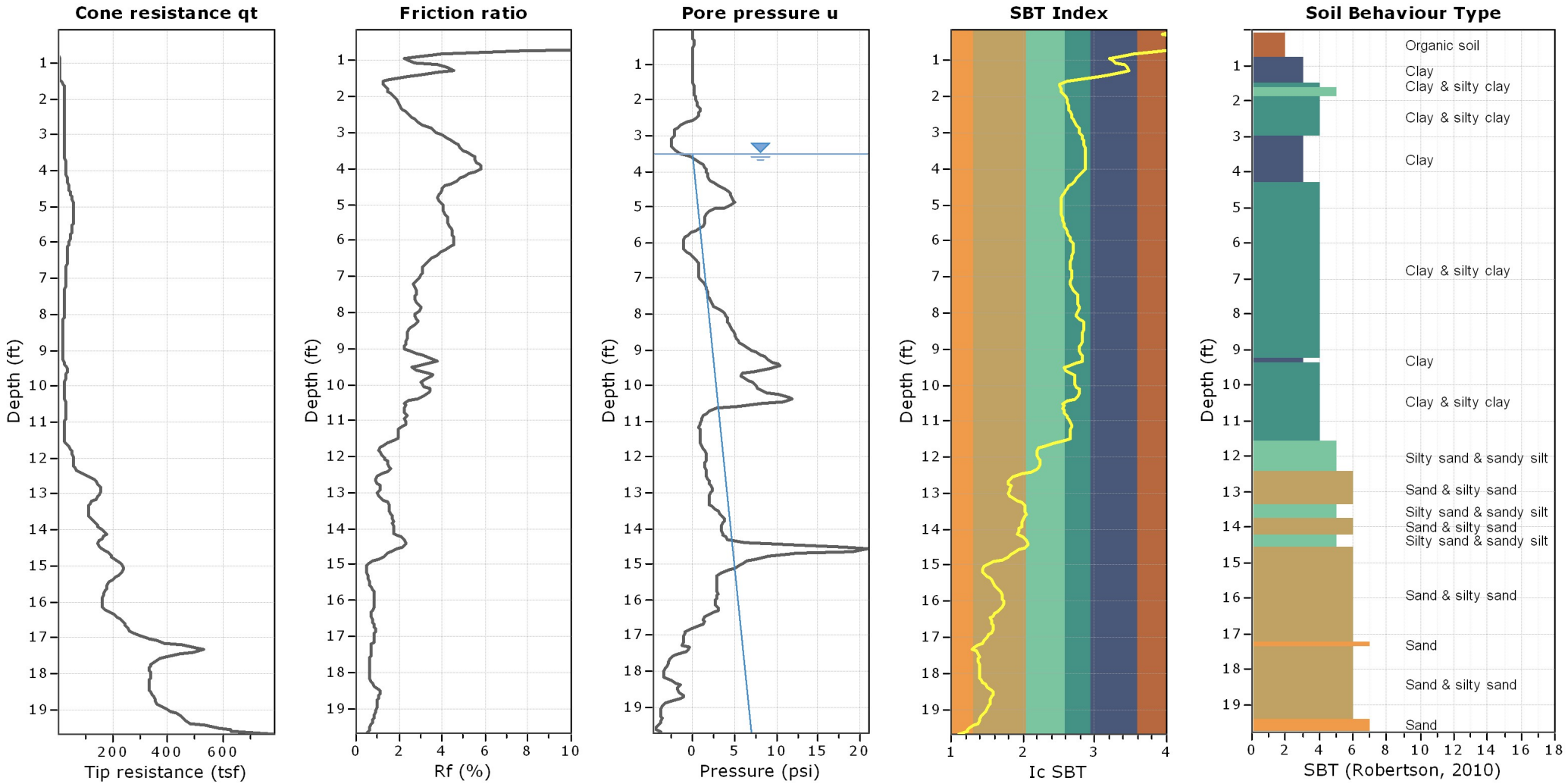
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-49
Total depth: 19.69 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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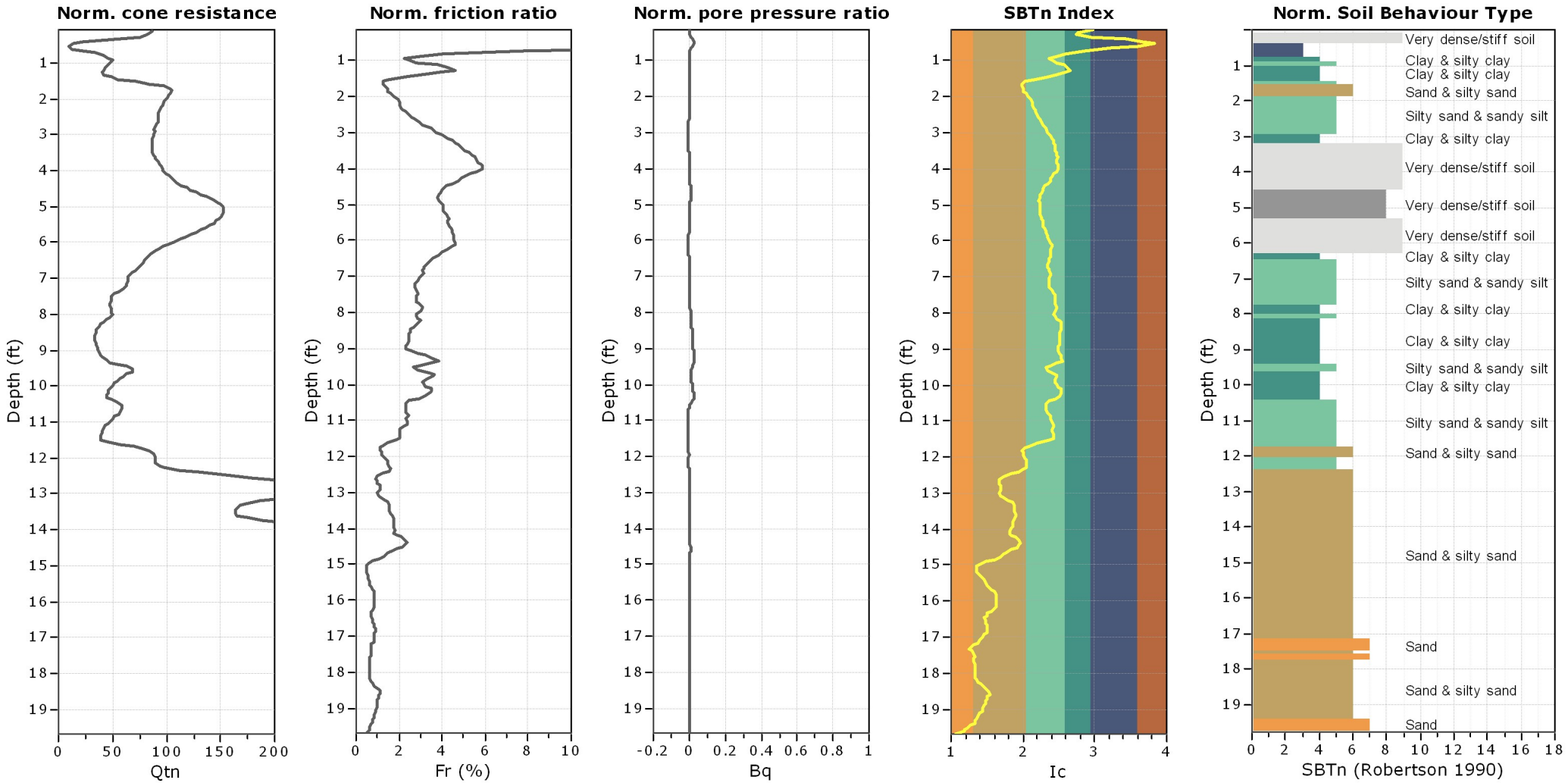
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-49
Total depth: 19.69 ft, Date: 10/2/2014



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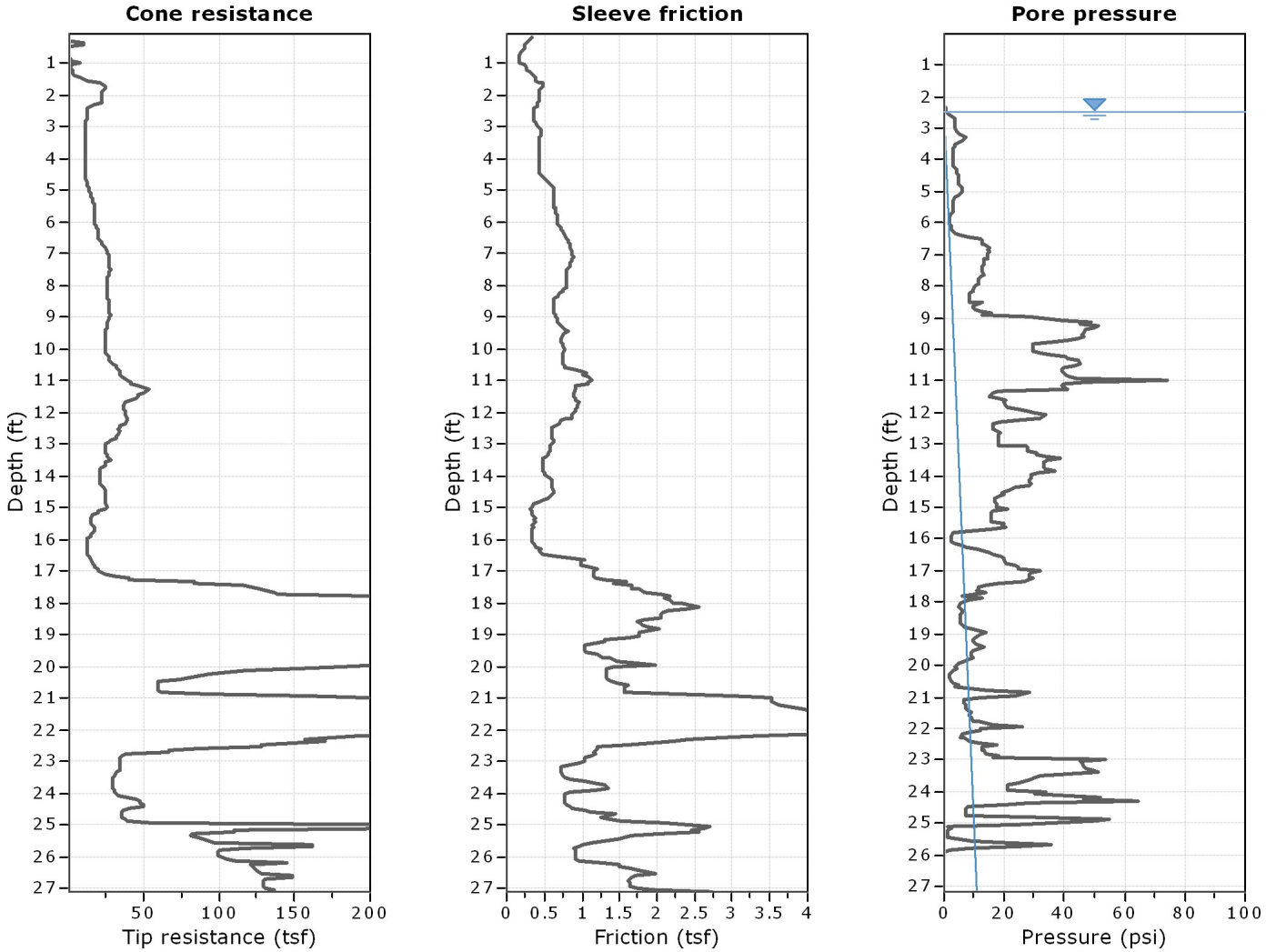
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-50
Total depth: 27.11 ft, Date: 10/2/2014



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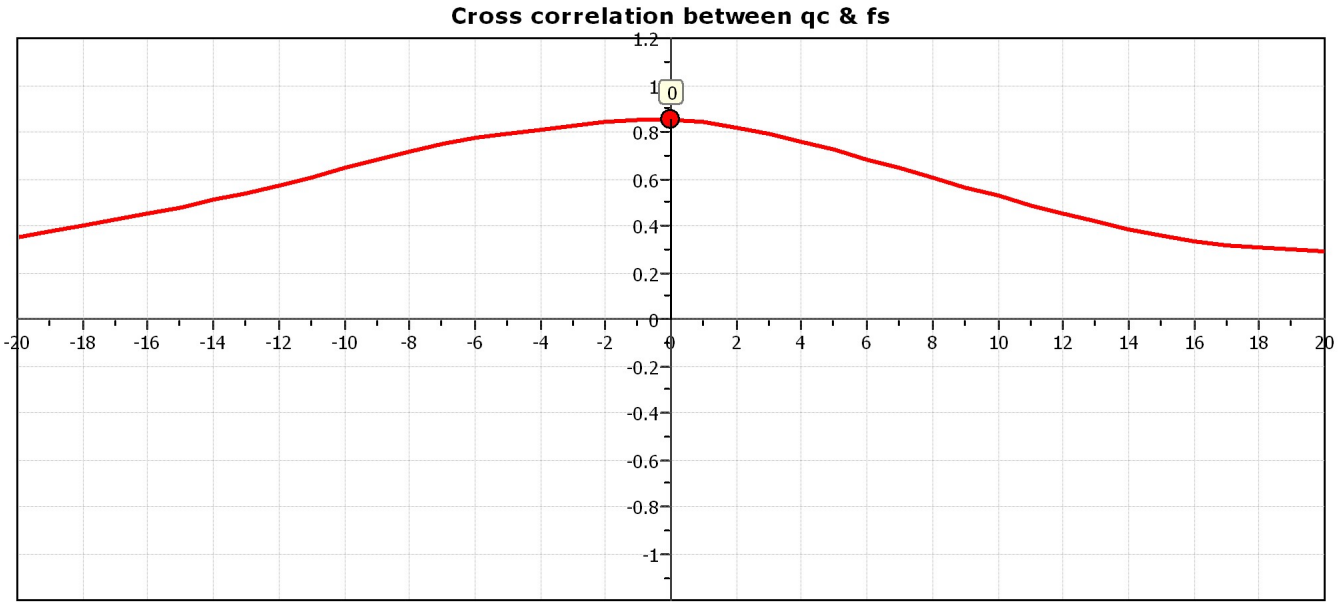

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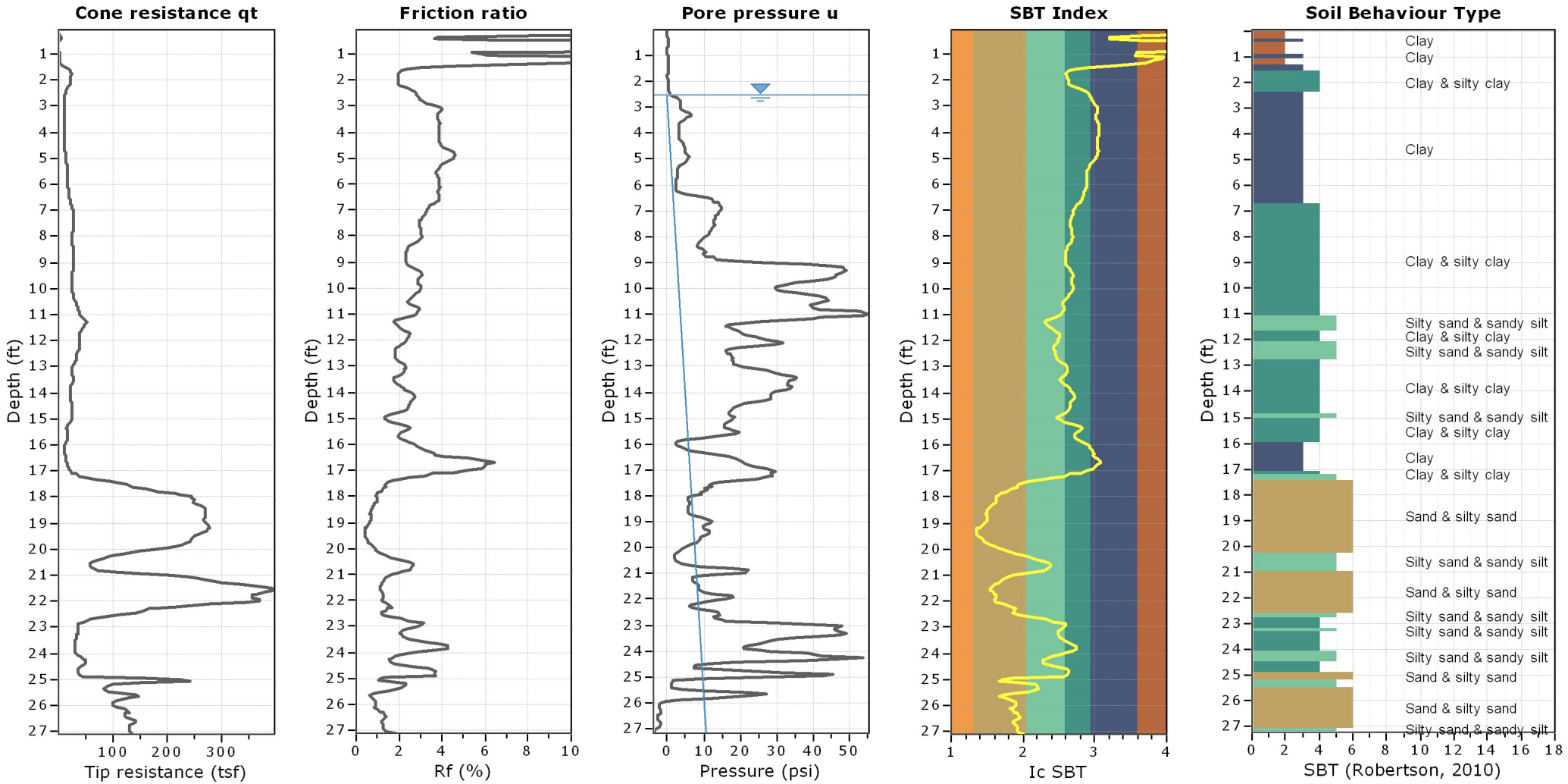
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-50
Total depth: 27.11 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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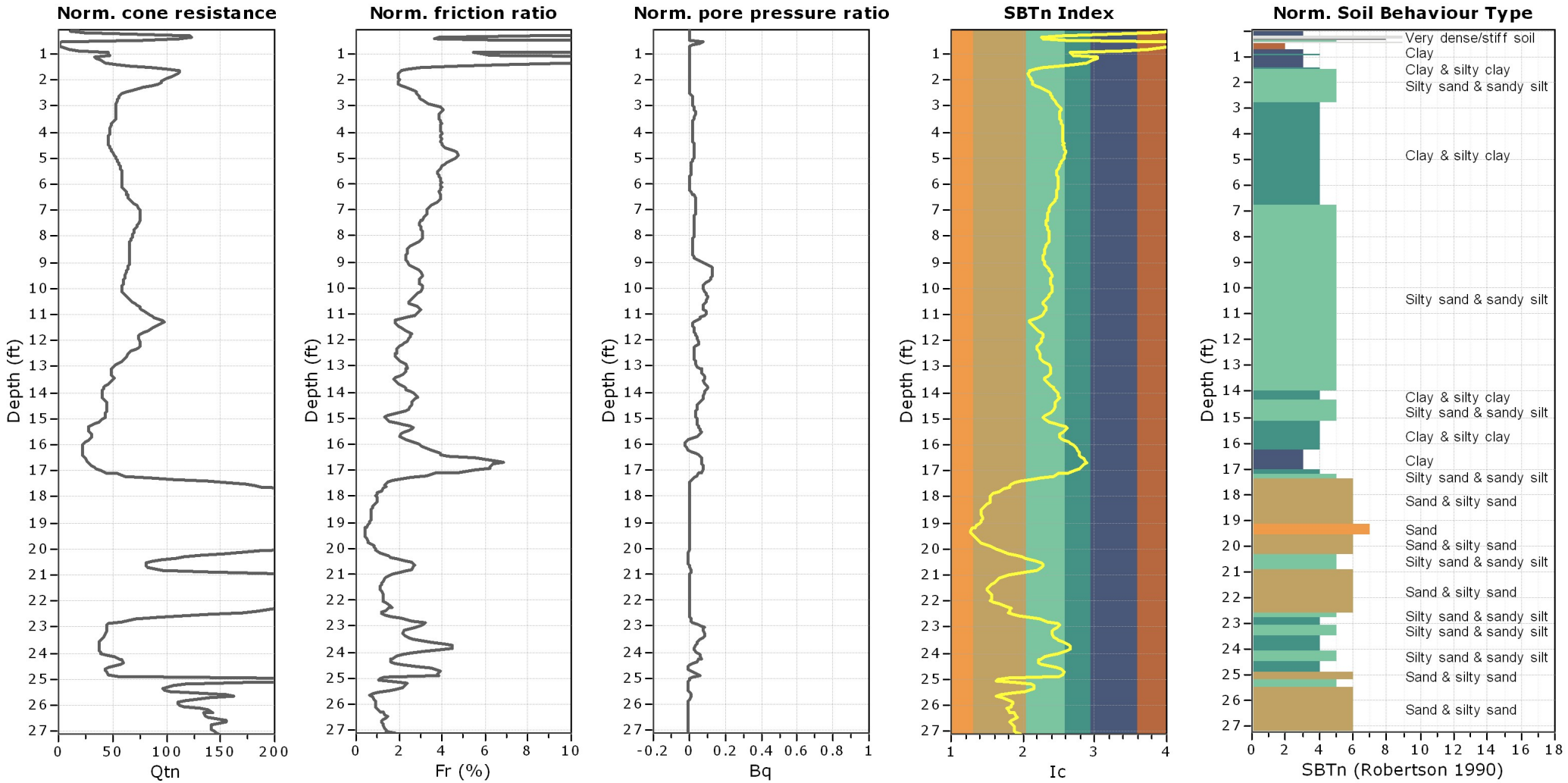
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-50
Total depth: 27.11 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
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5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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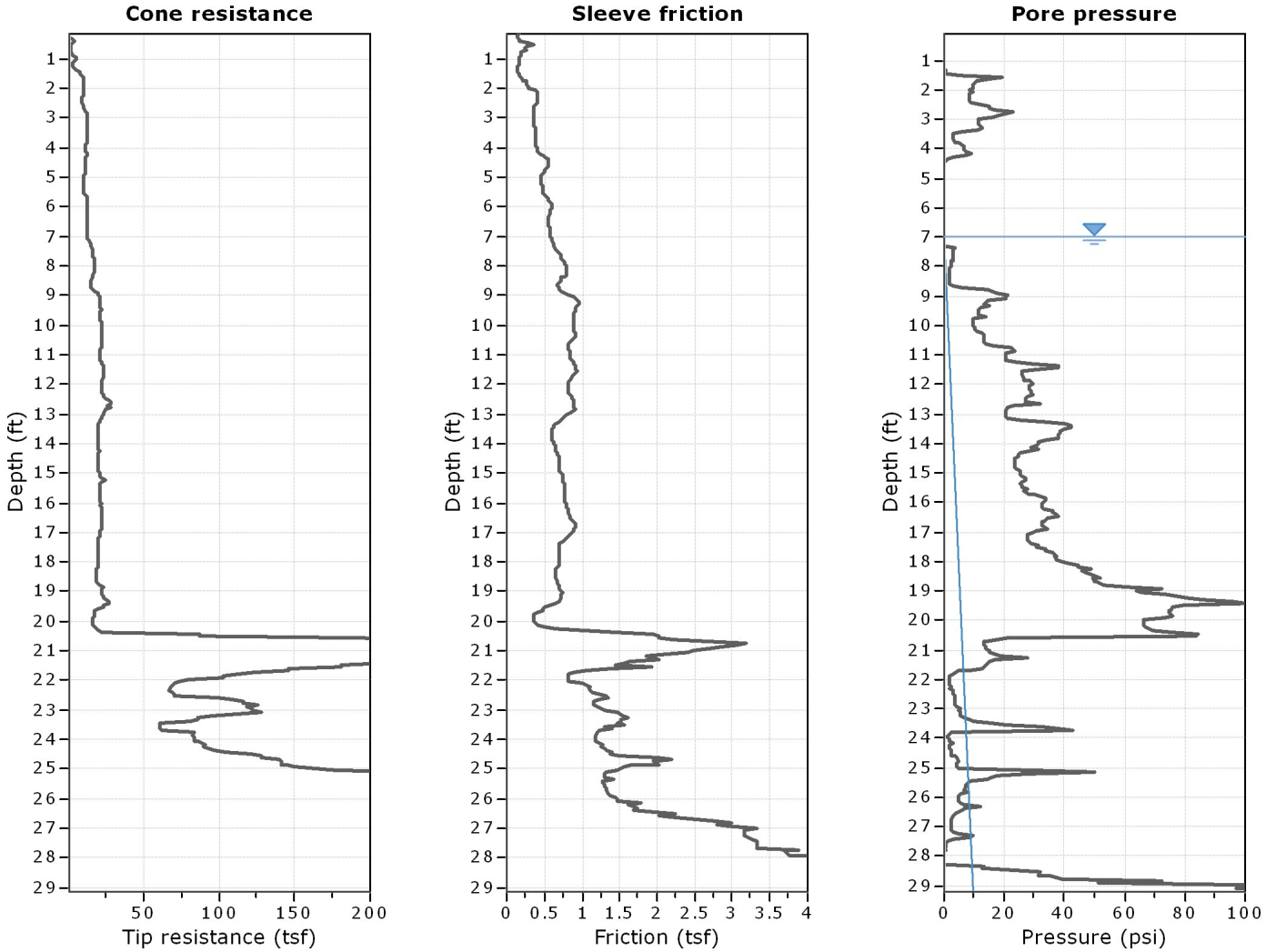
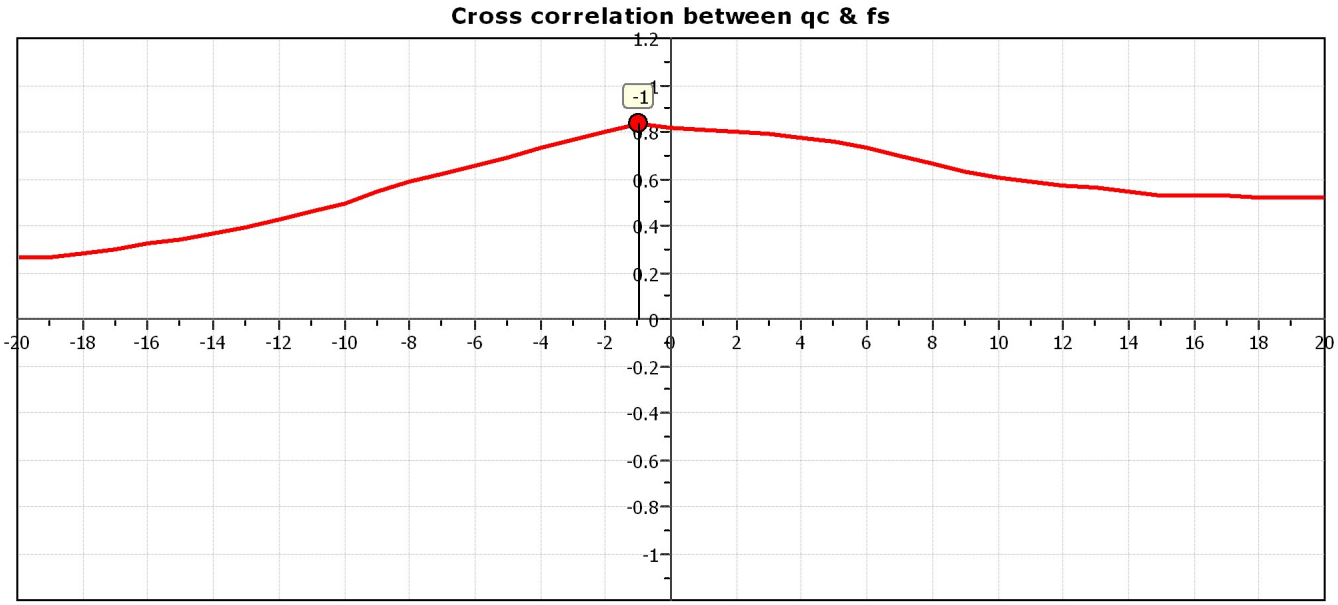
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-51
Total depth: 29.14 ft, Date: 10/2/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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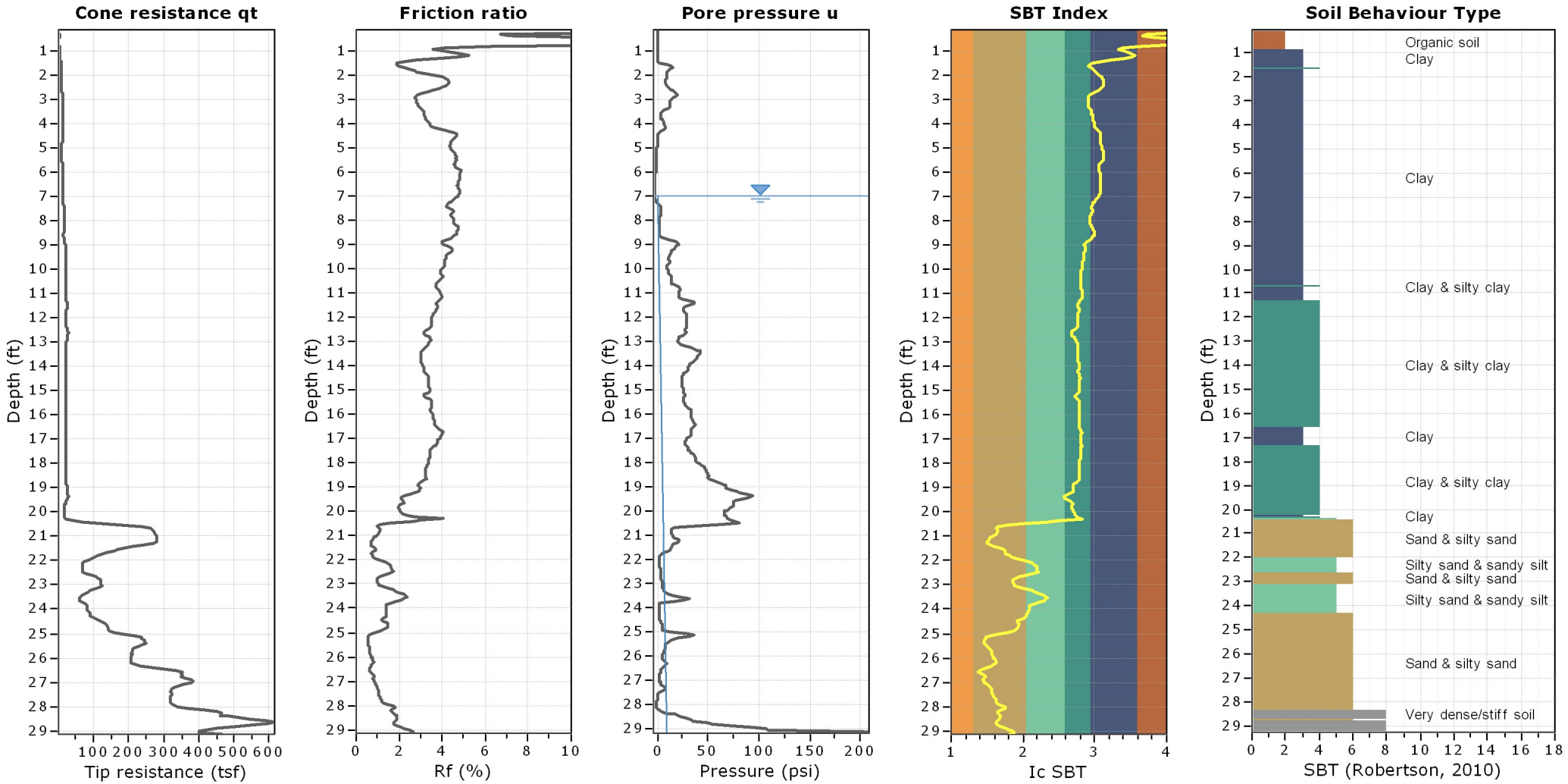
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-51
Total depth: 29.14 ft, Date: 10/2/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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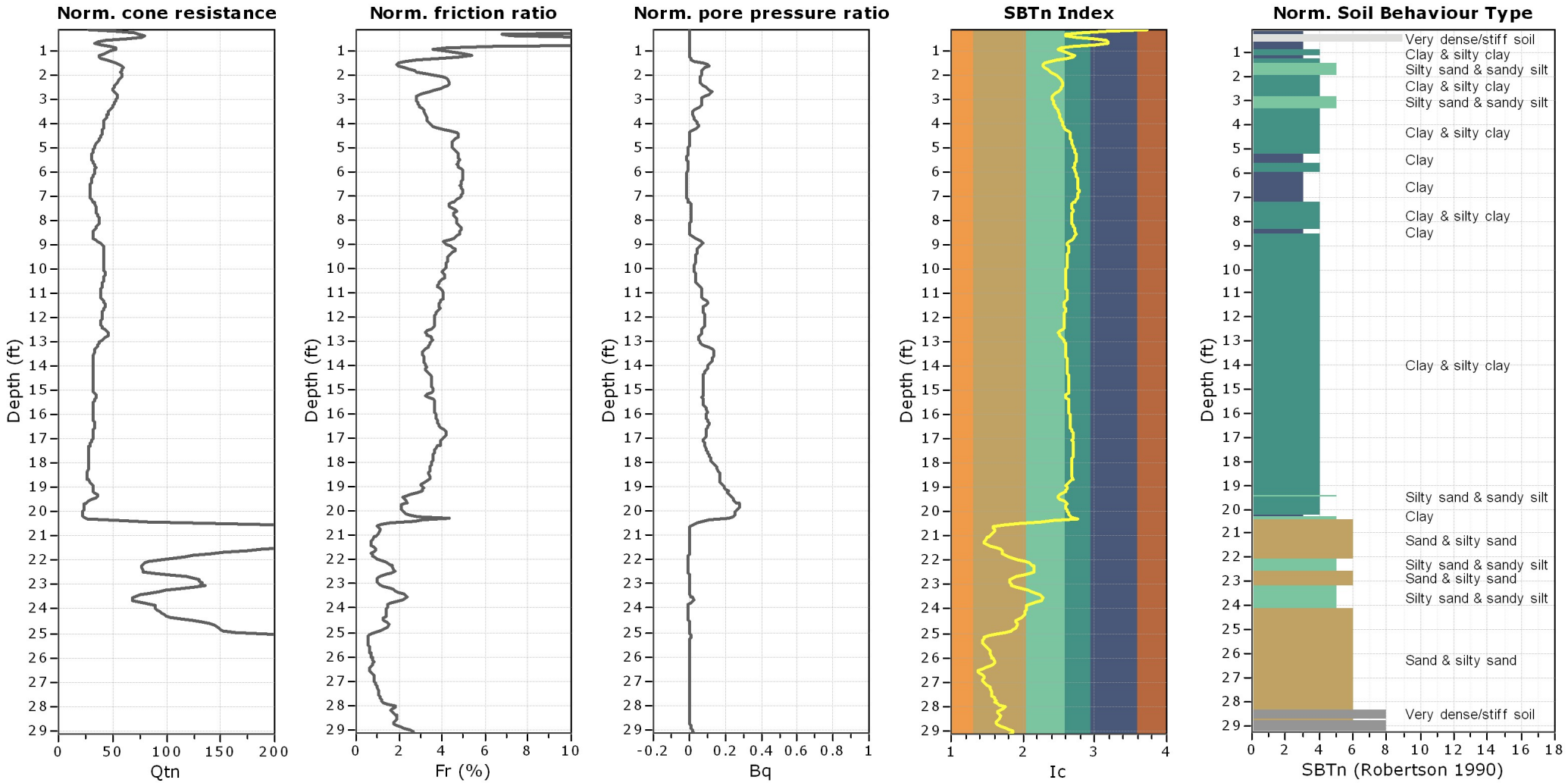
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-51
Total depth: 29.14 ft, Date: 10/2/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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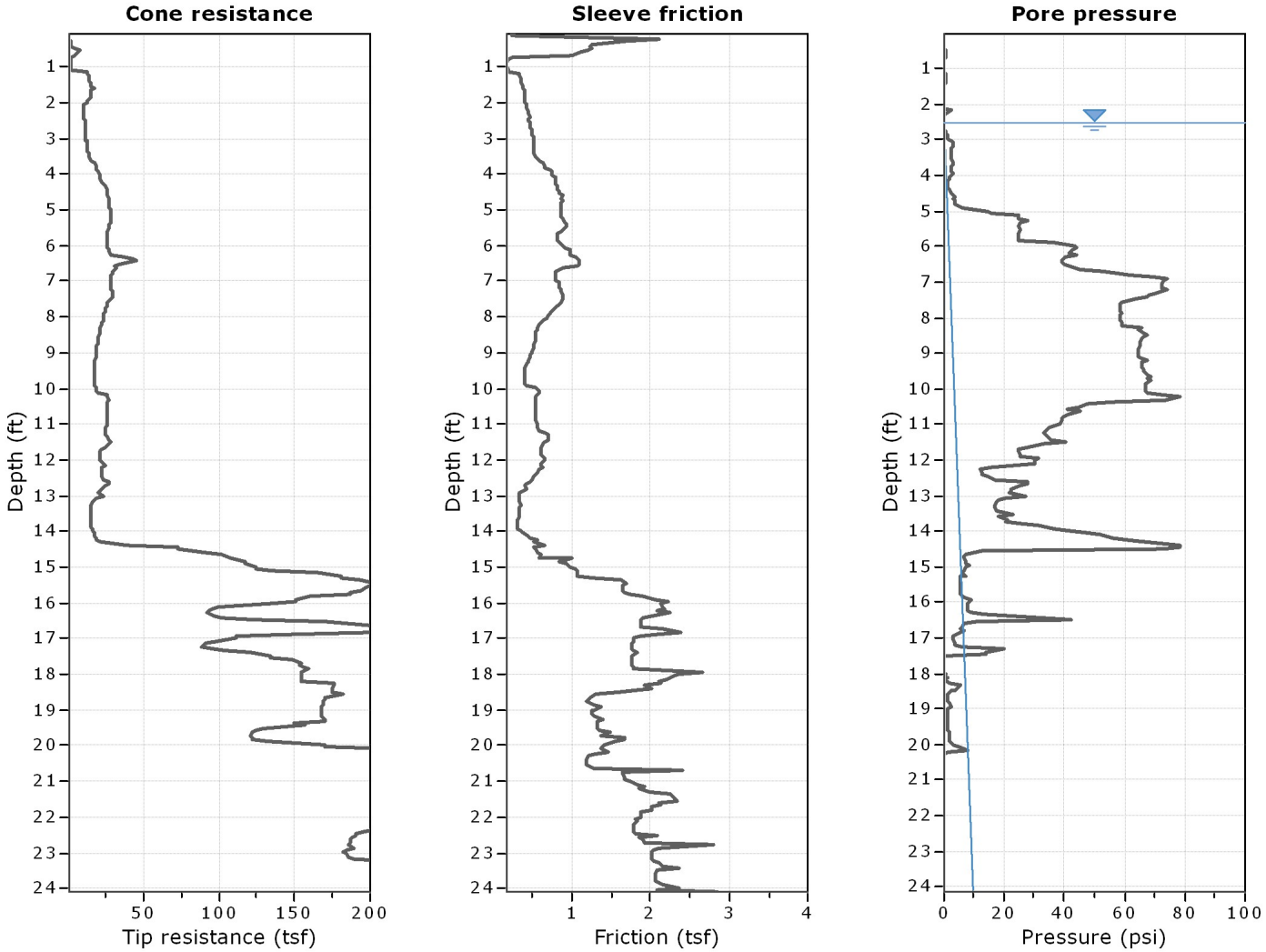
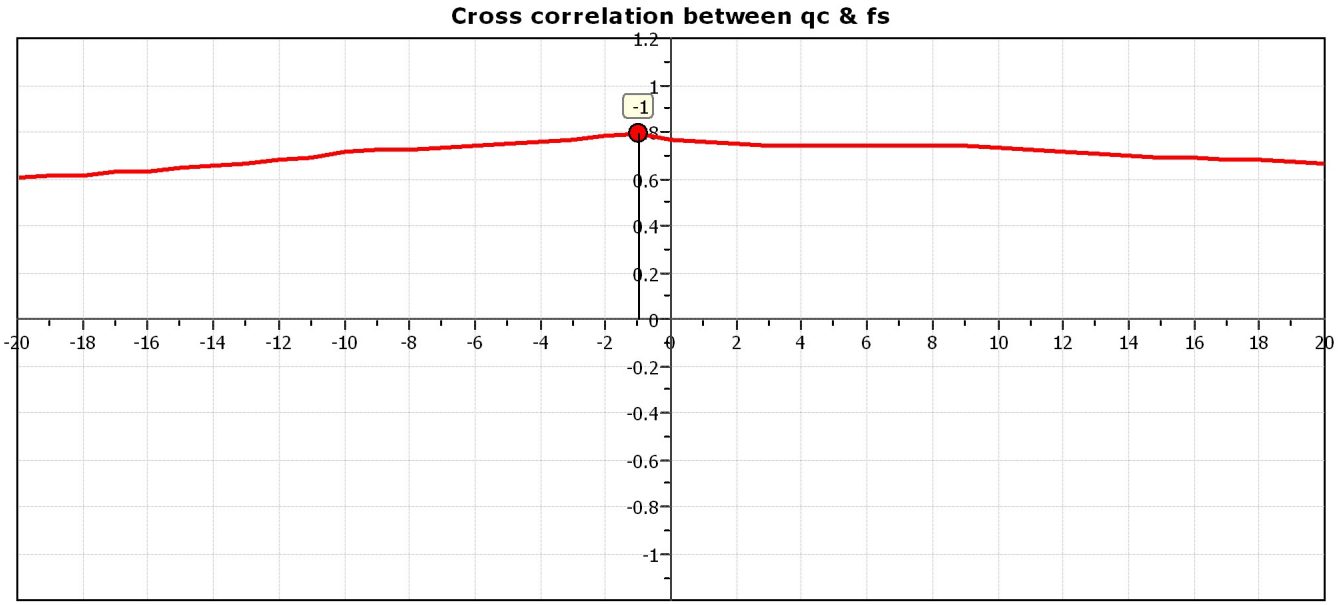
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-52
Total depth: 24.09 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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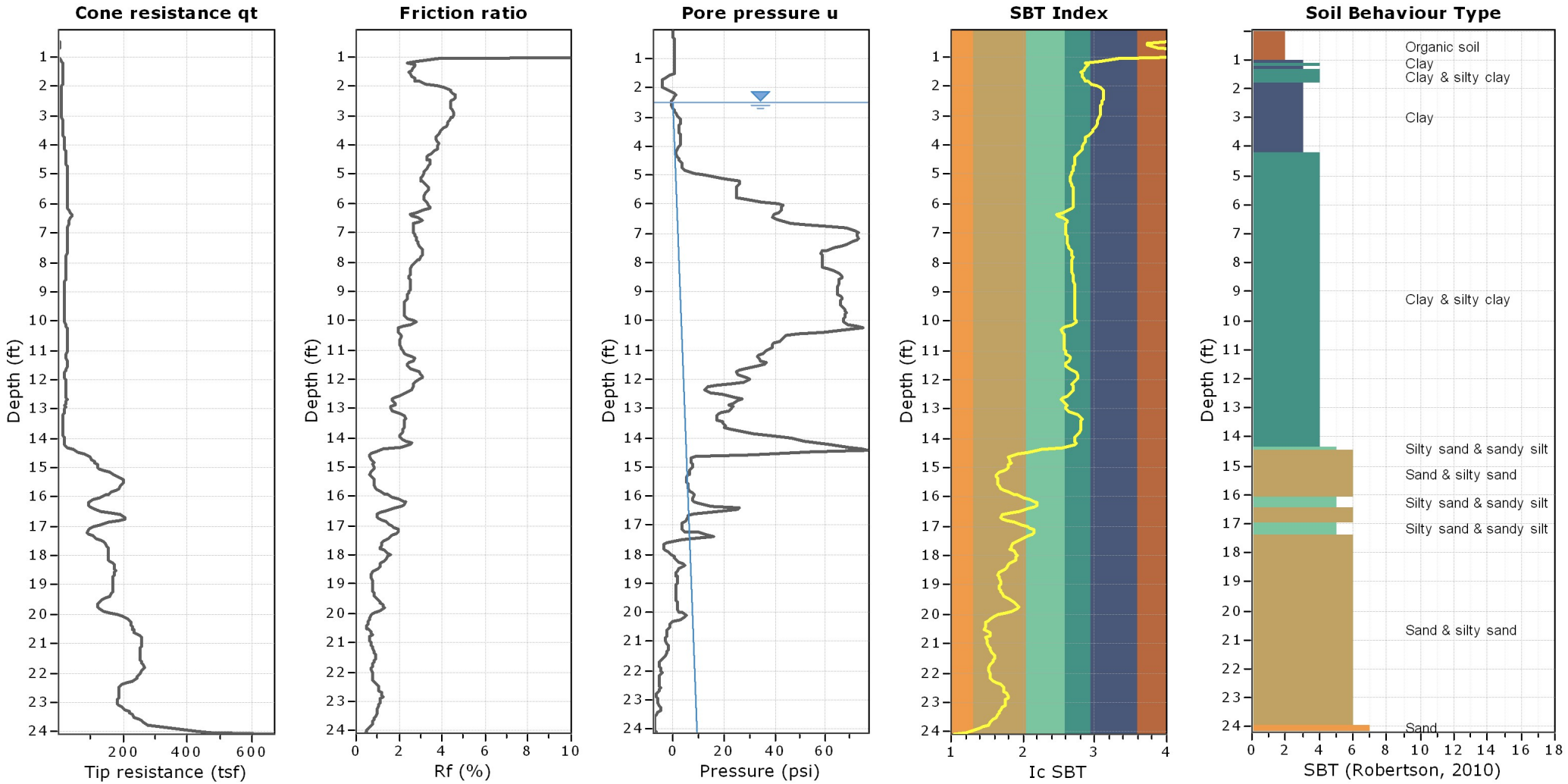
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-52
Total depth: 24.09 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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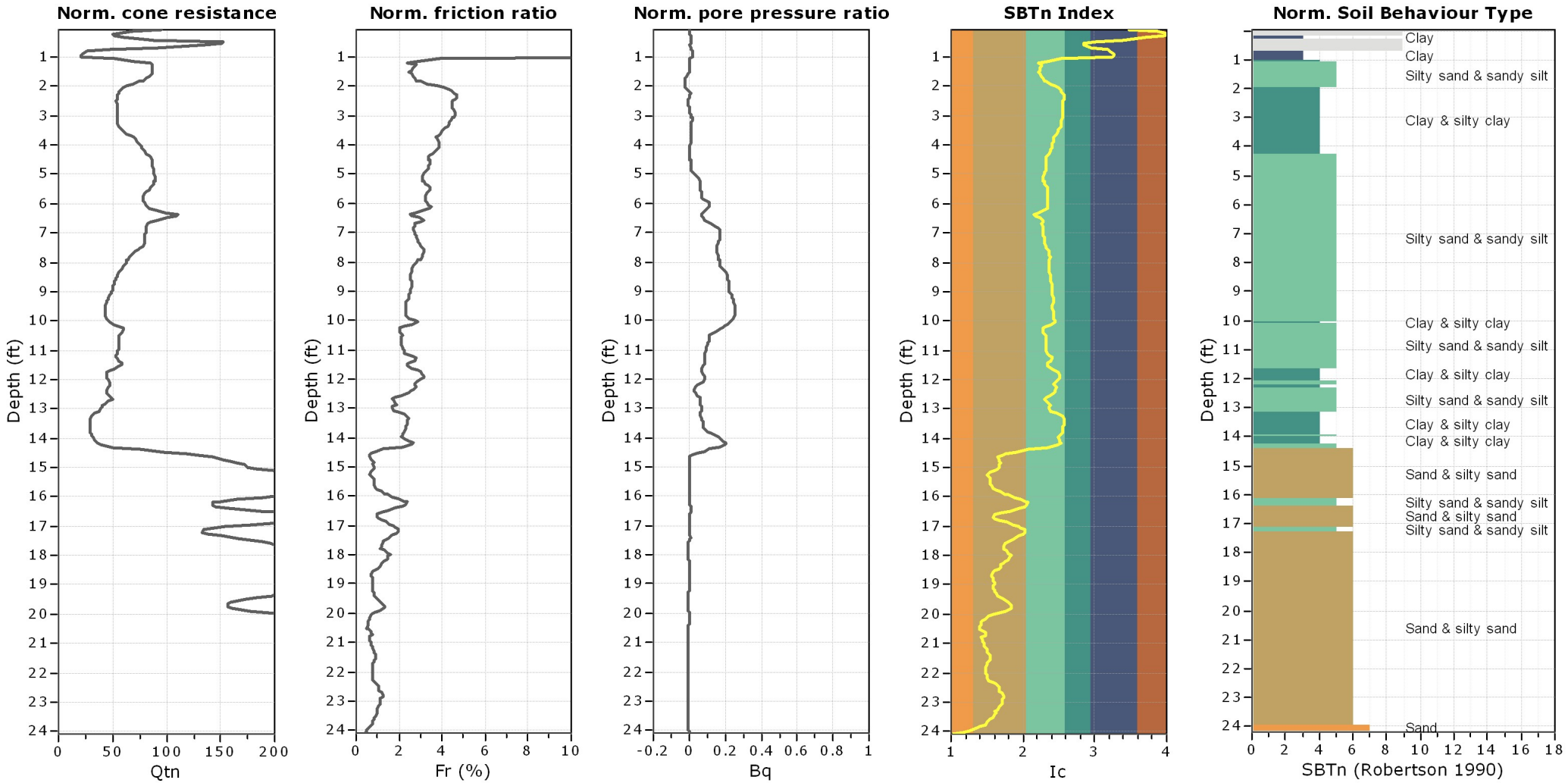
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-52
Total depth: 24.09 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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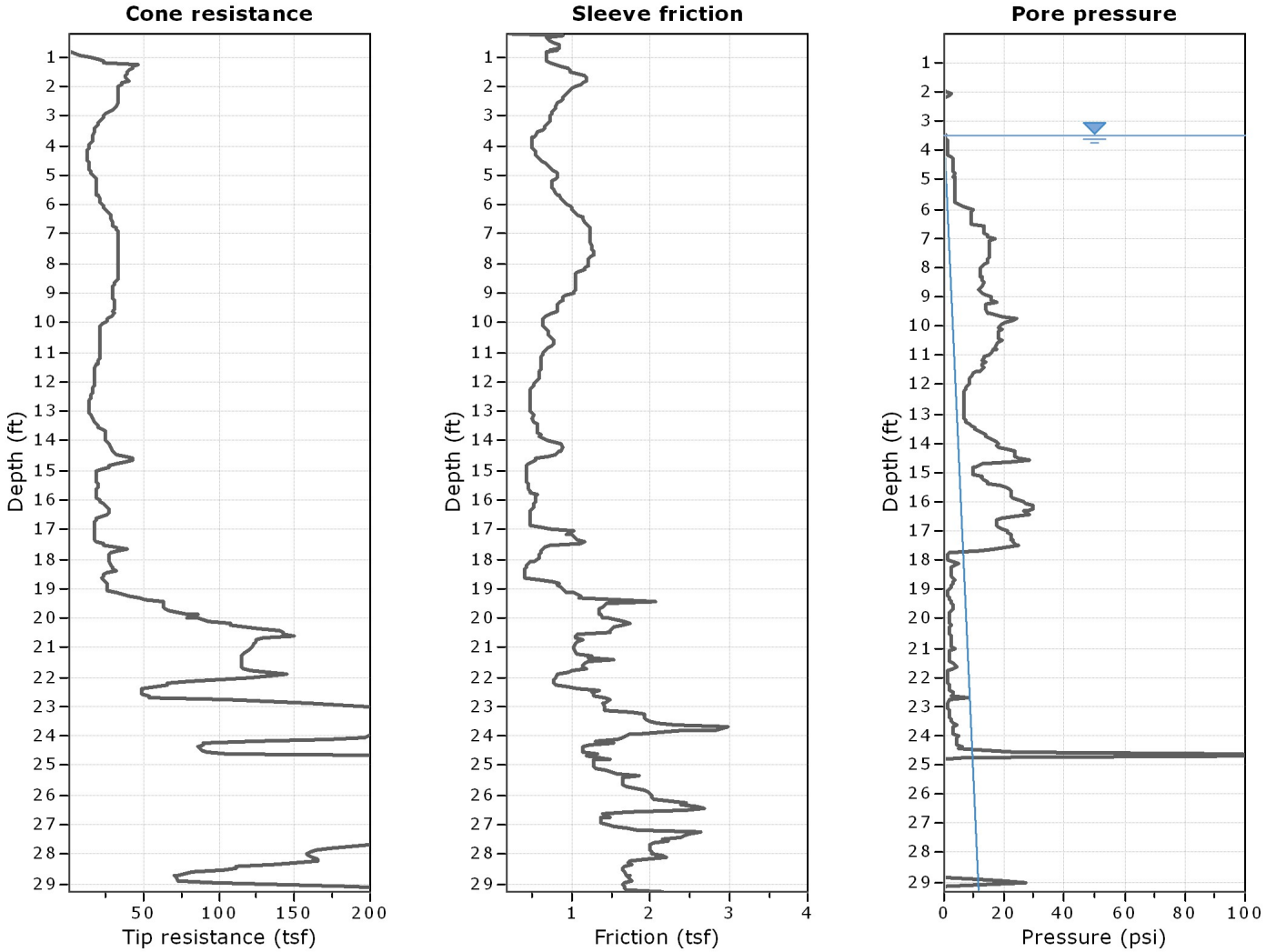
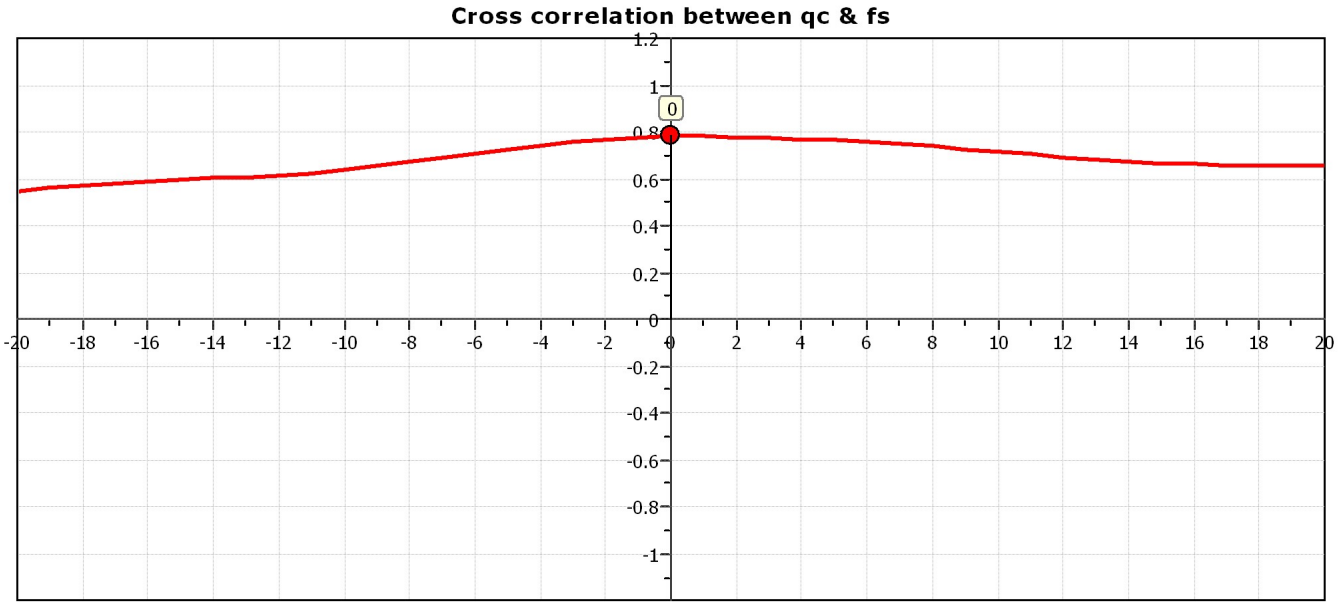
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-53
Total depth: 29.27 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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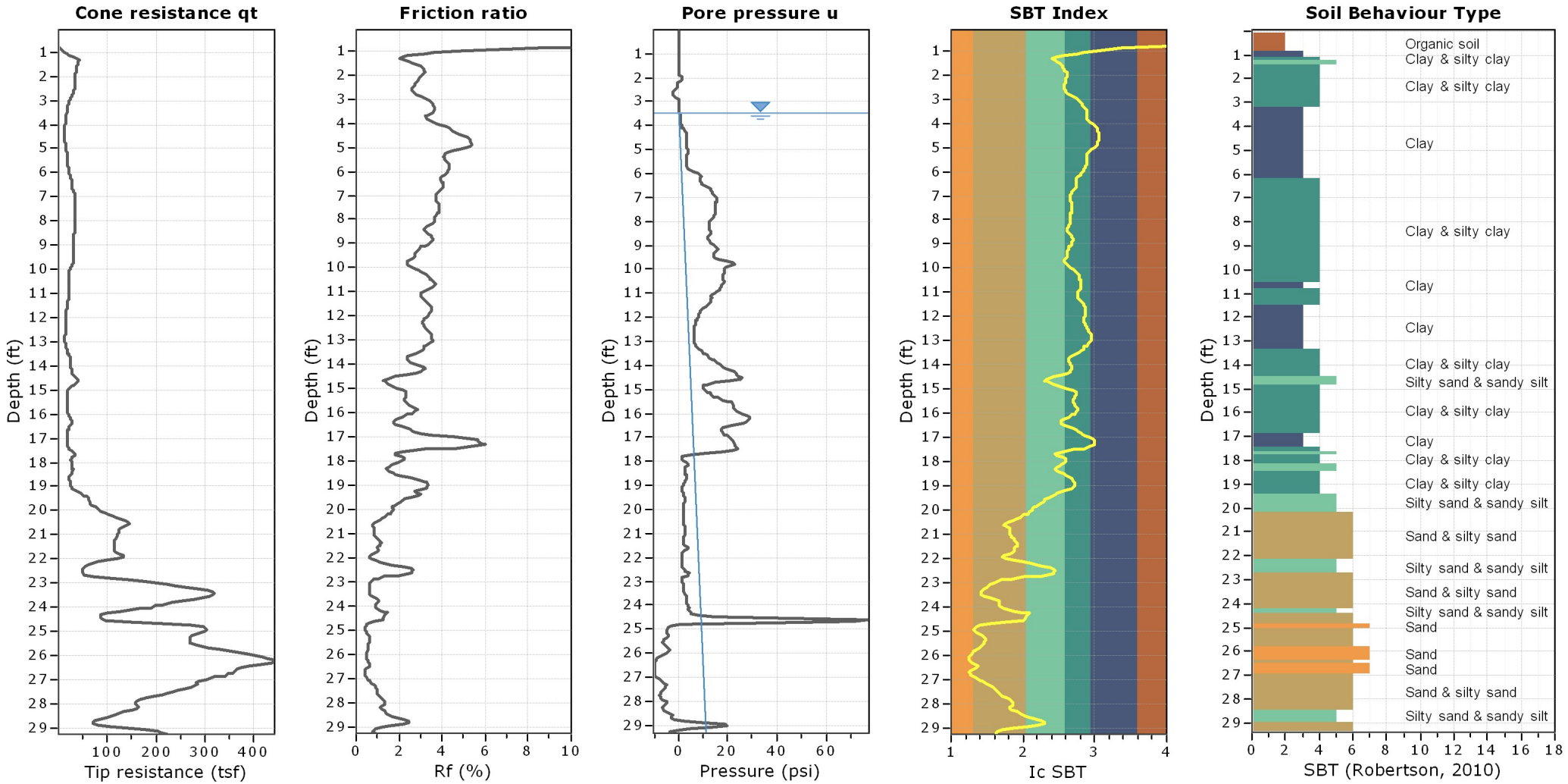
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-53
Total depth: 29.27 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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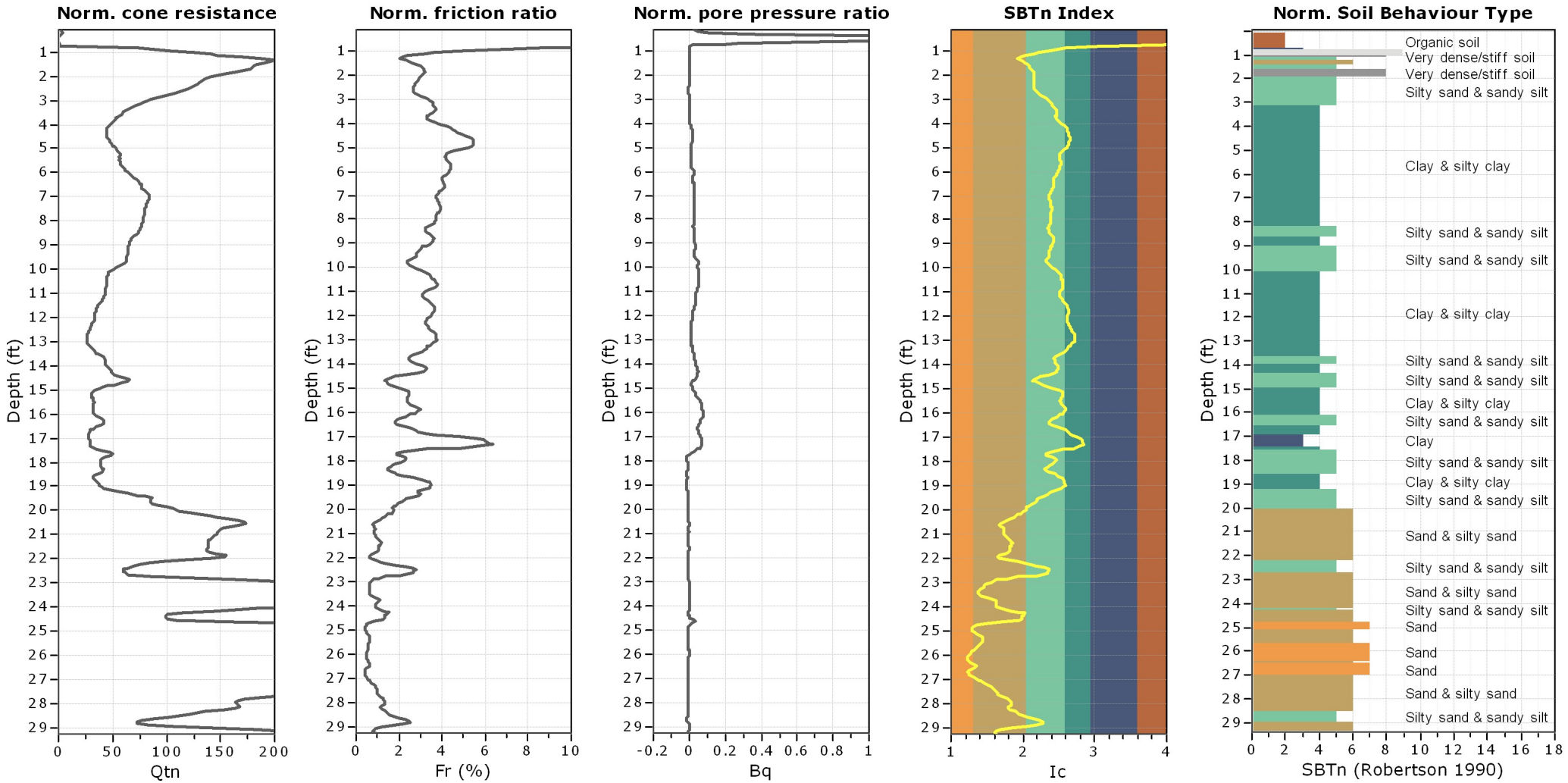
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-53
Total depth: 29.27 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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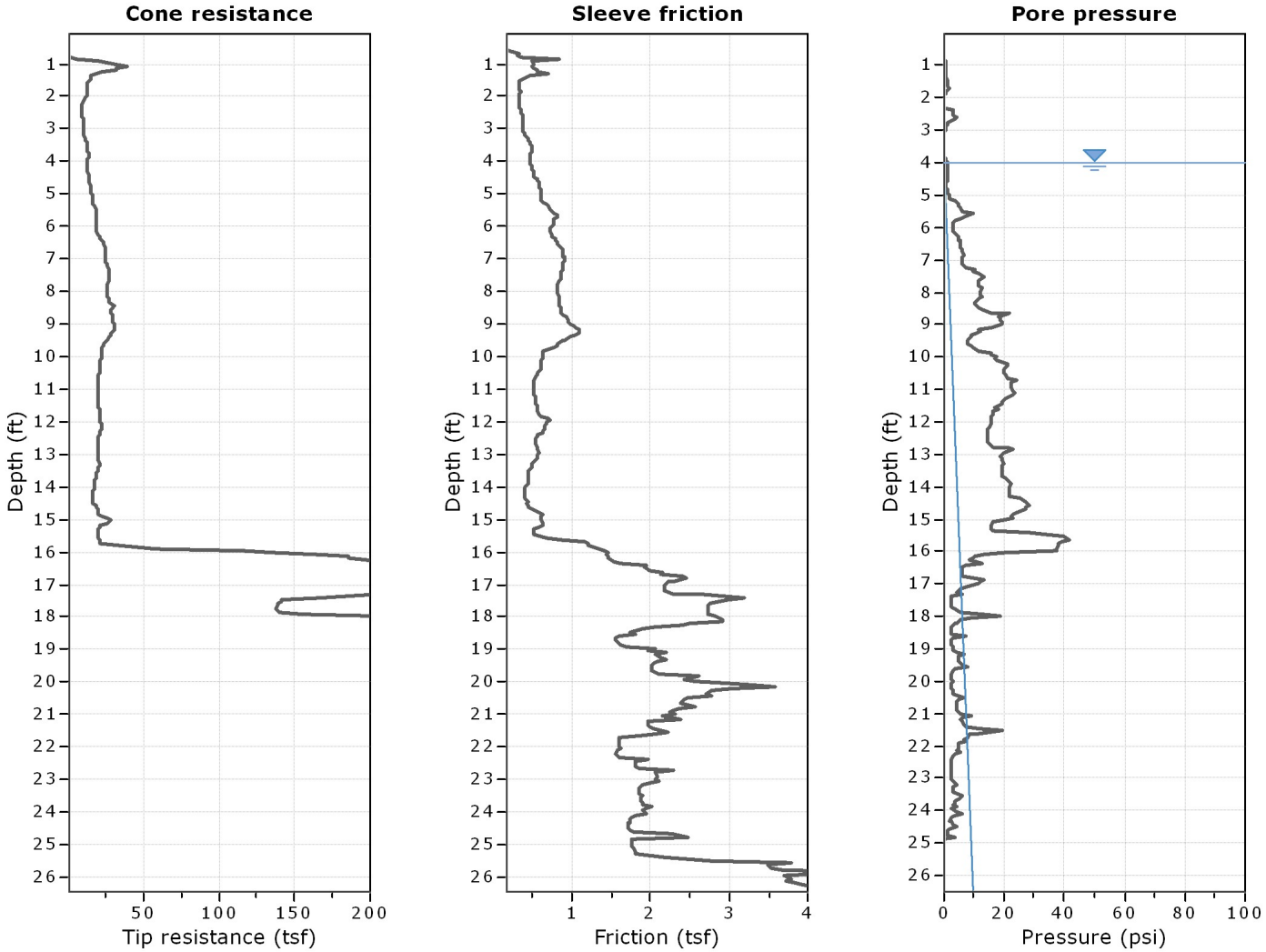
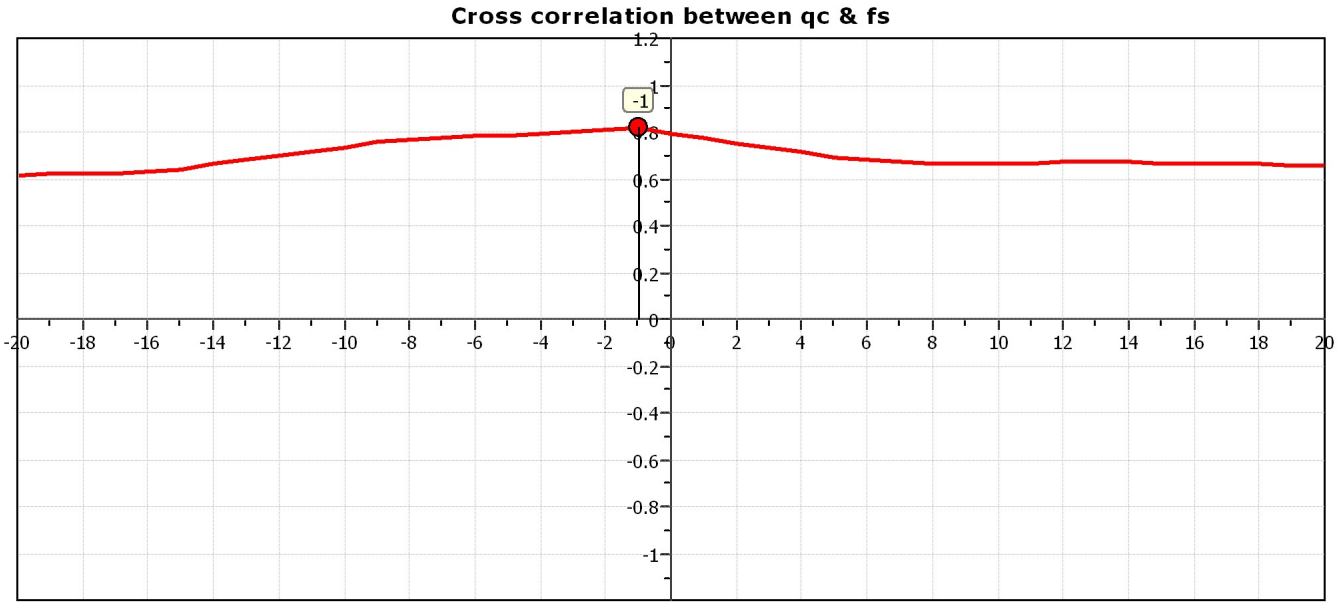
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-54
Total depth: 26.45 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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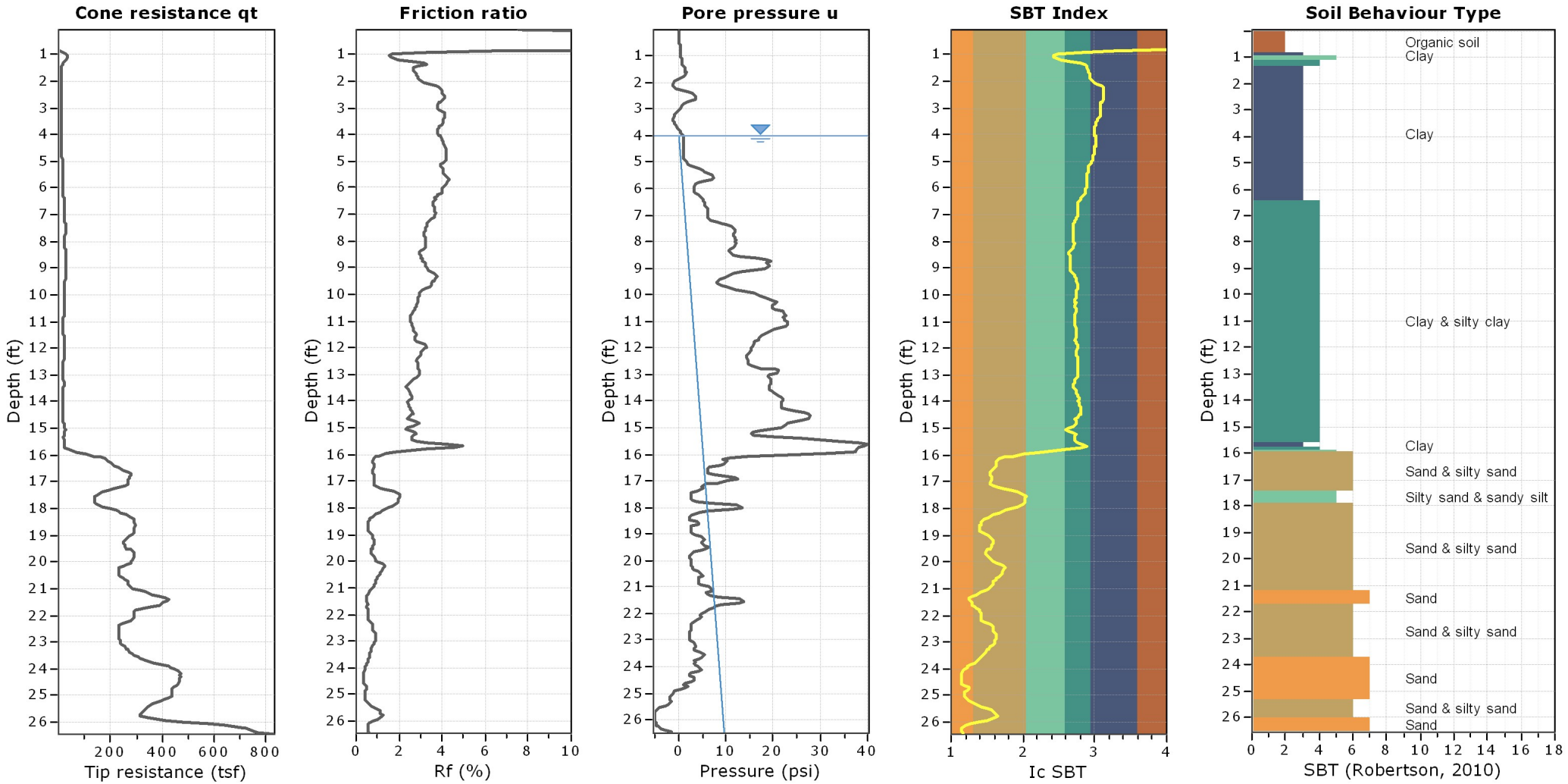
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-54
Total depth: 26.45 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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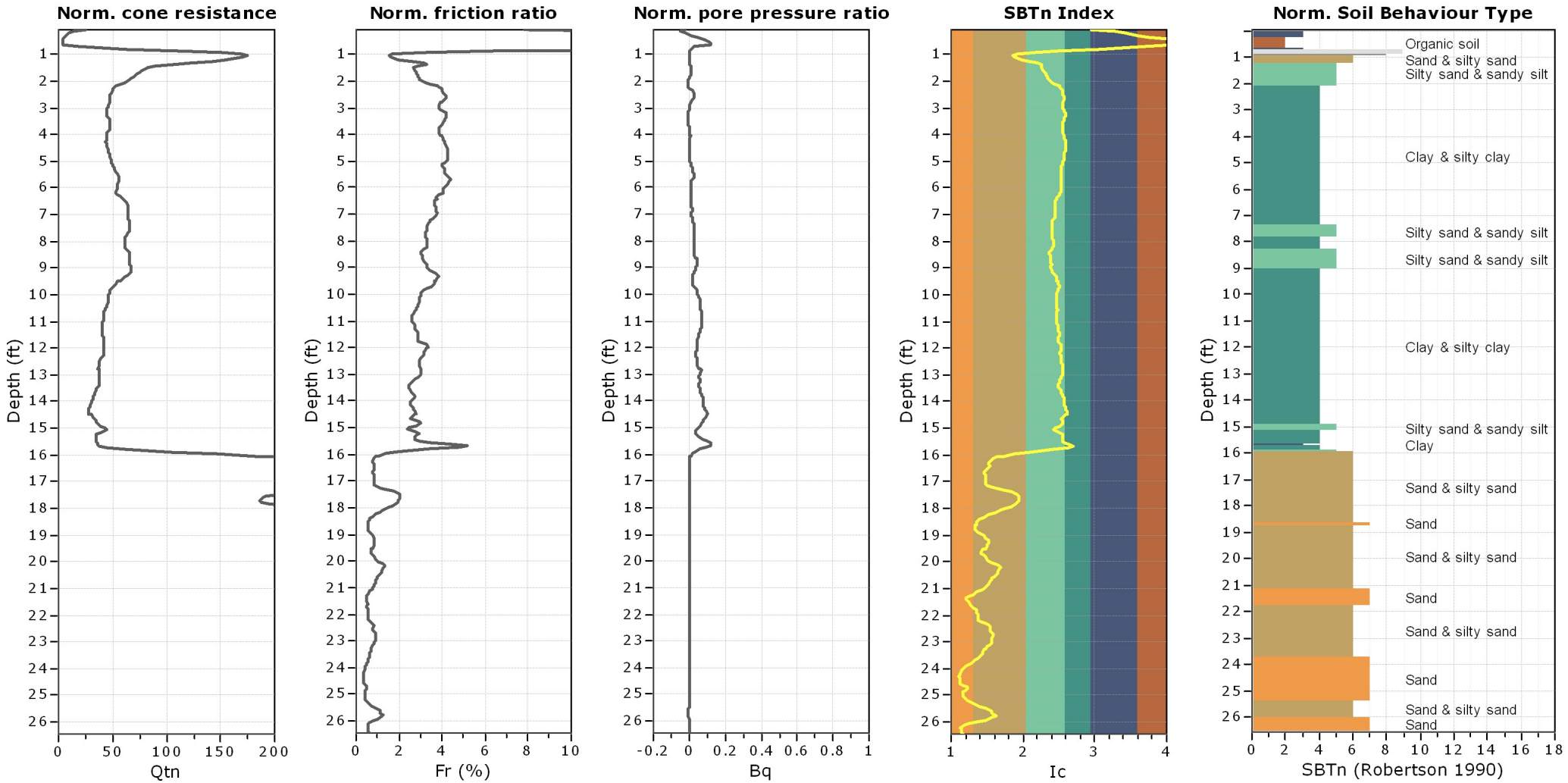
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-54
Total depth: 26.45 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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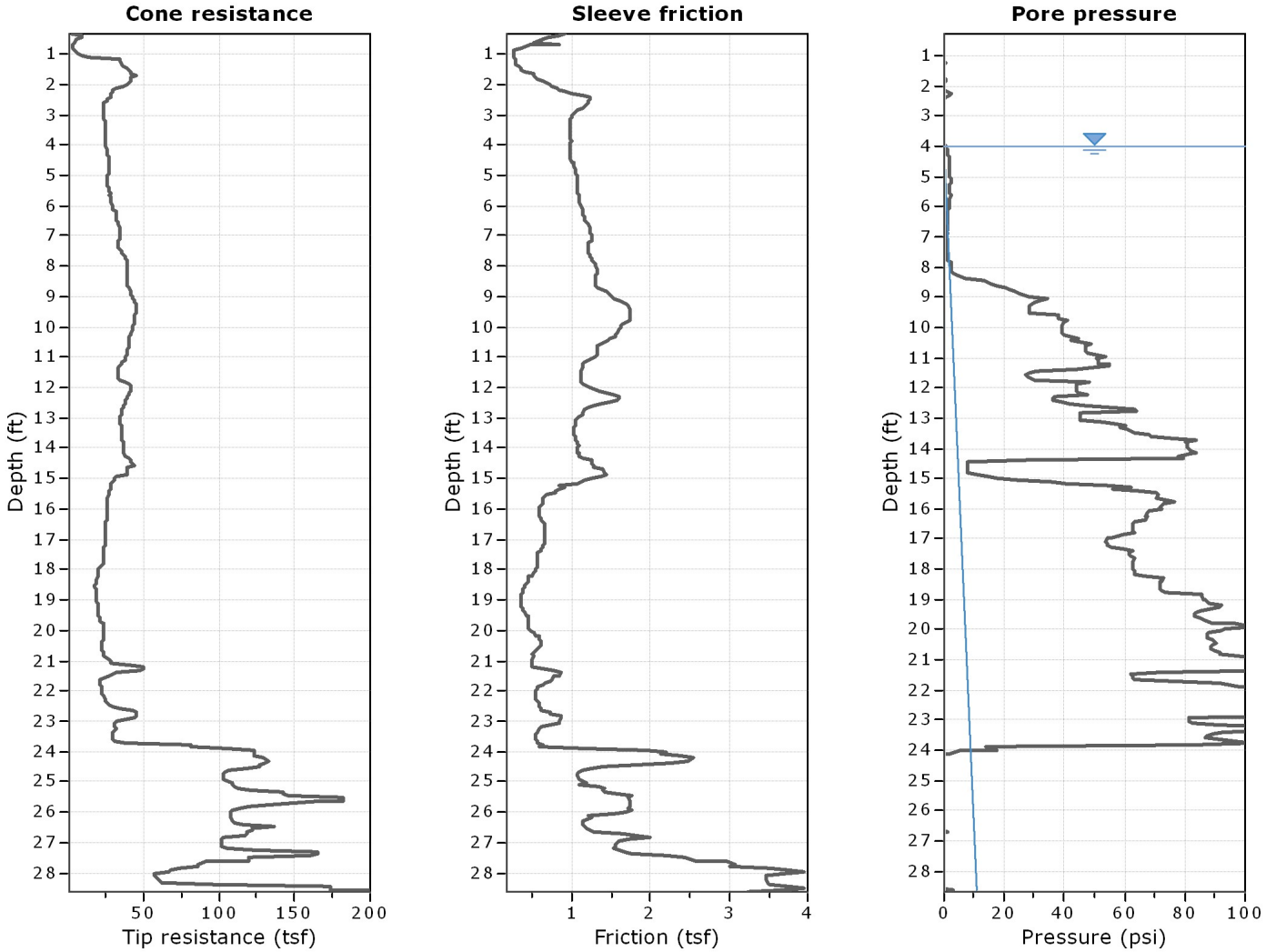
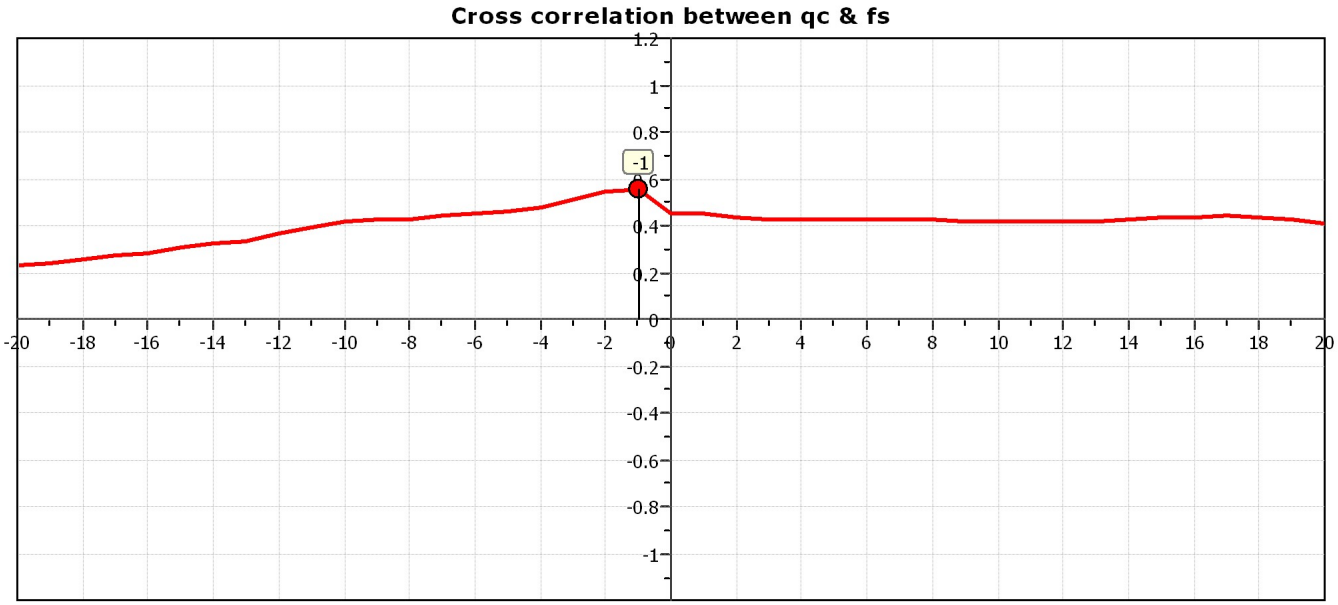
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-55
Total depth: 28.62 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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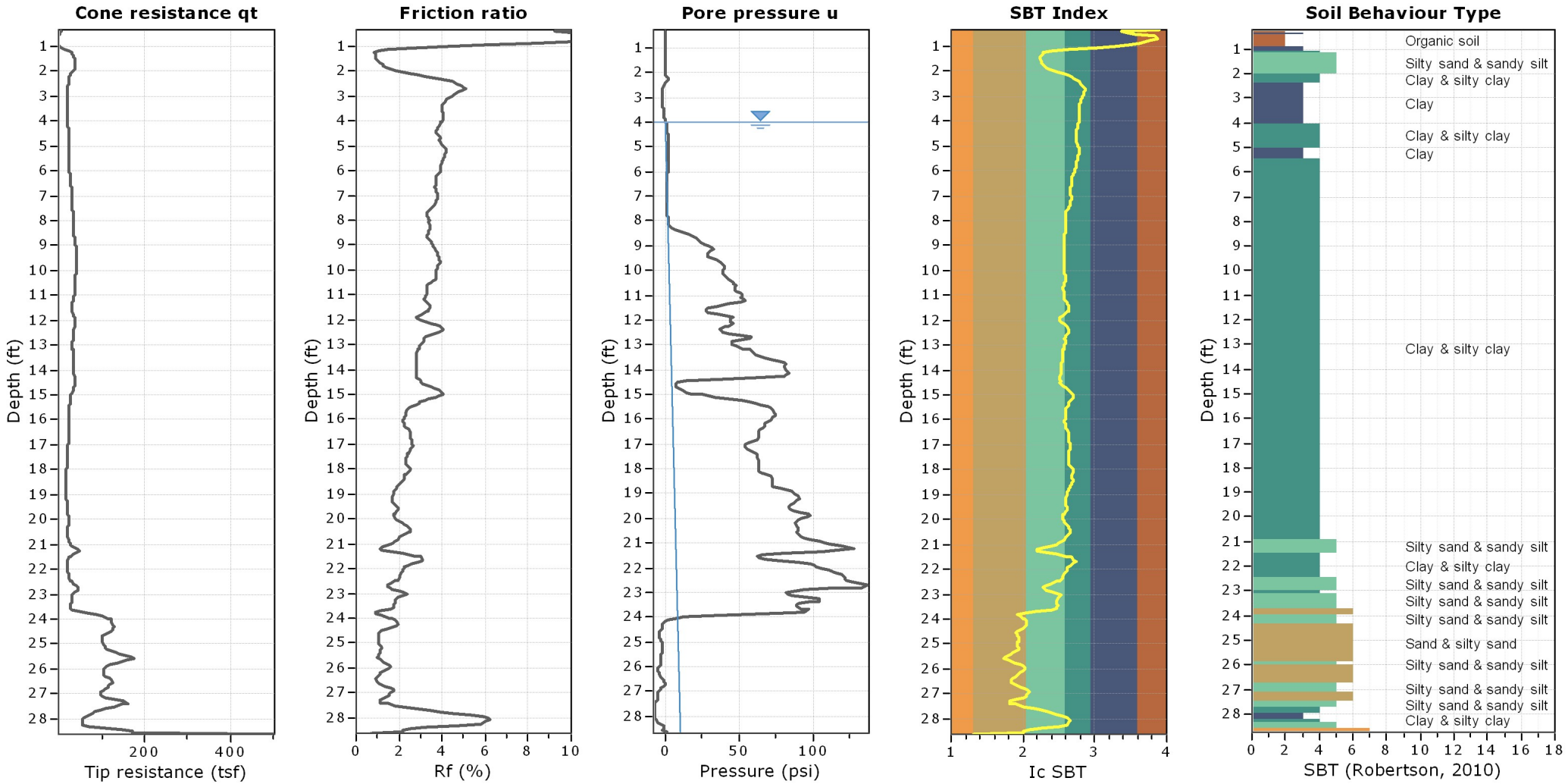
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-55
Total depth: 28.62 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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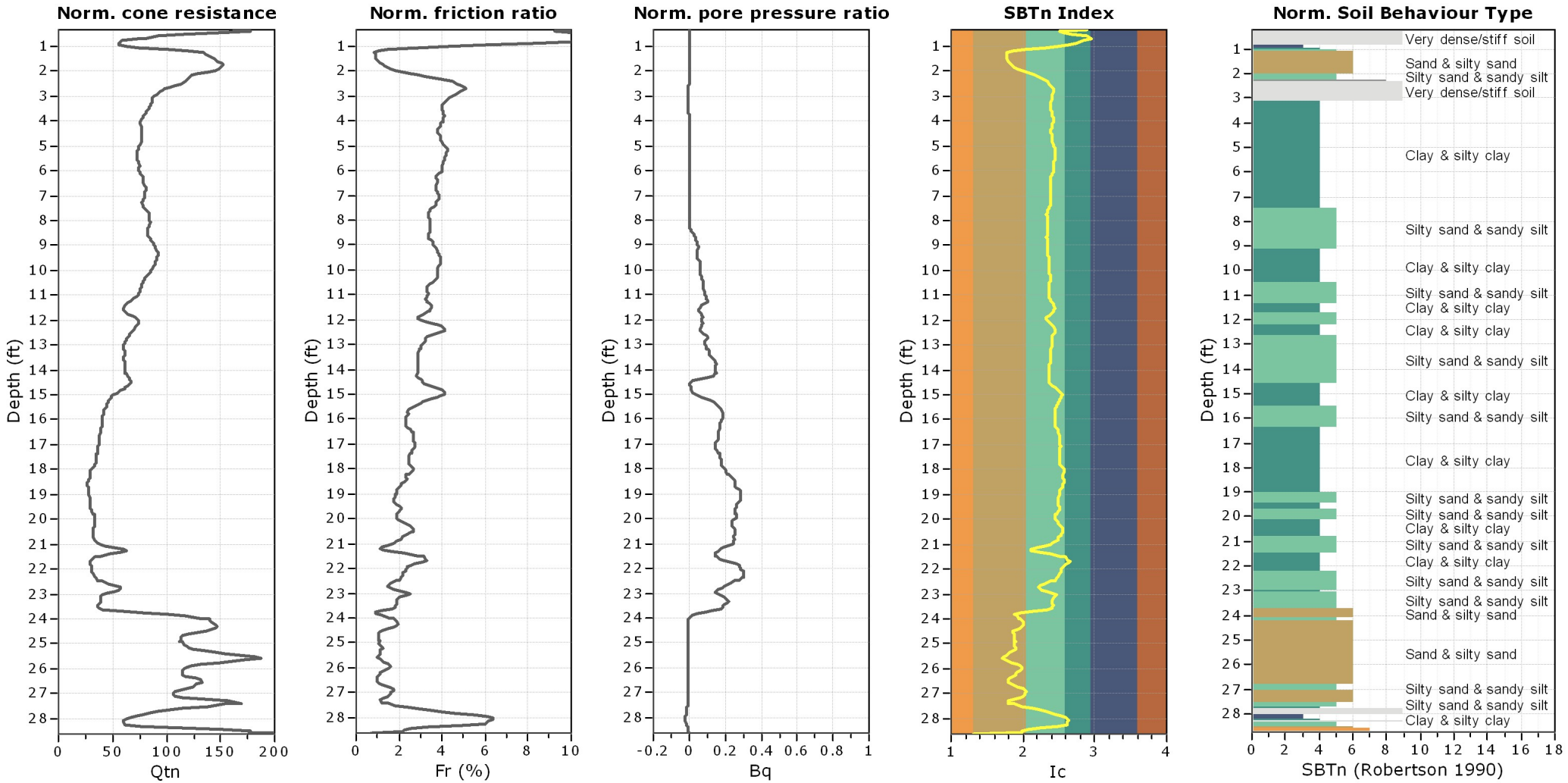
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-55
Total depth: 28.62 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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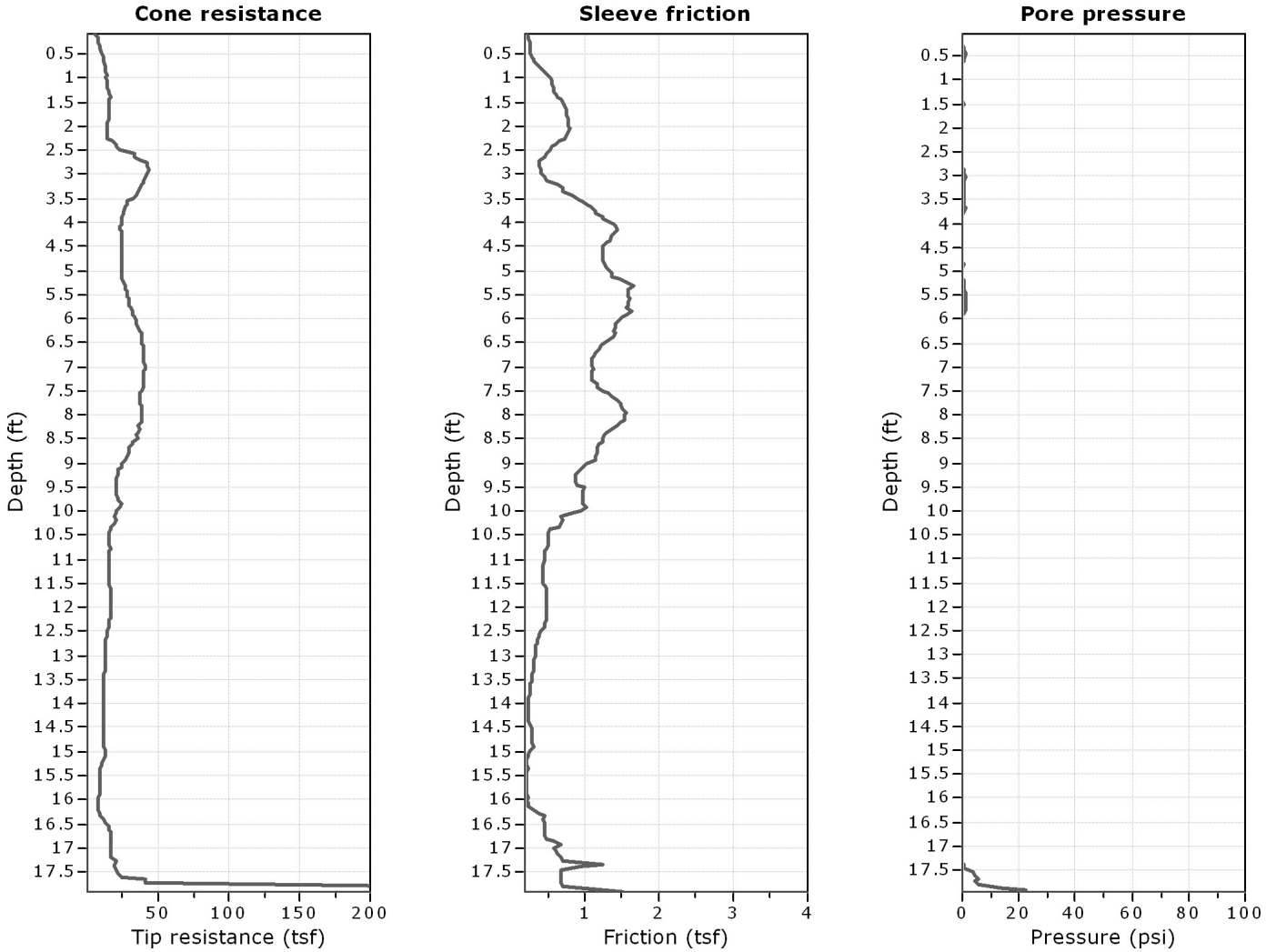
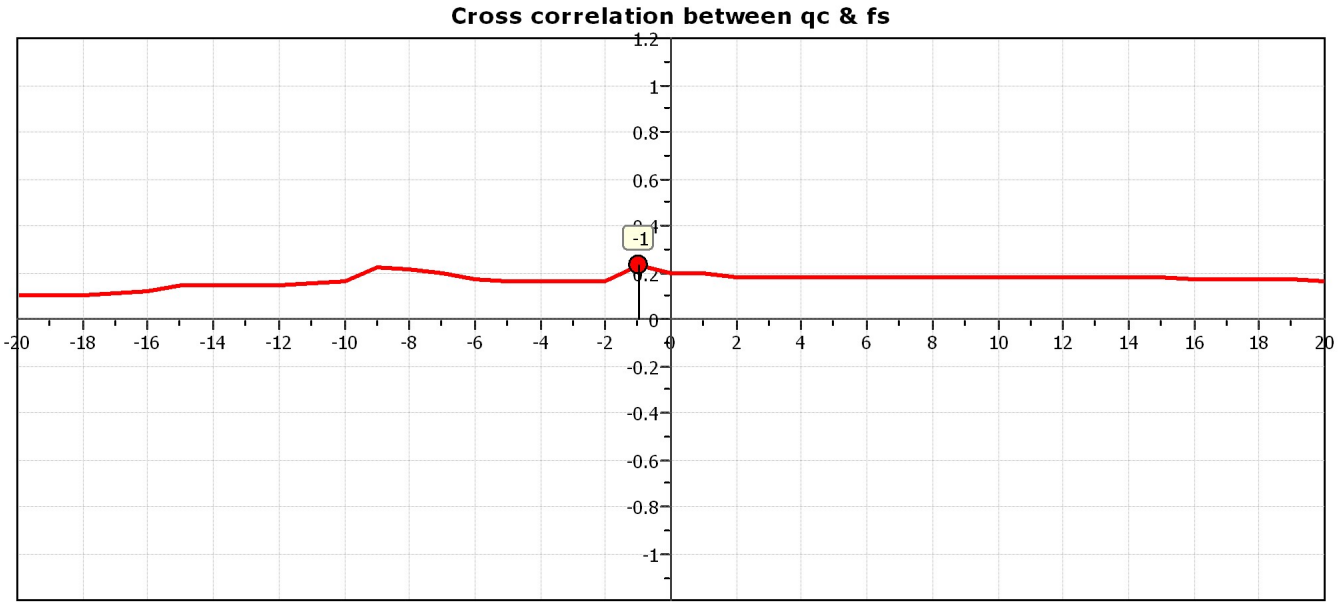
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-56
Total depth: 17.91 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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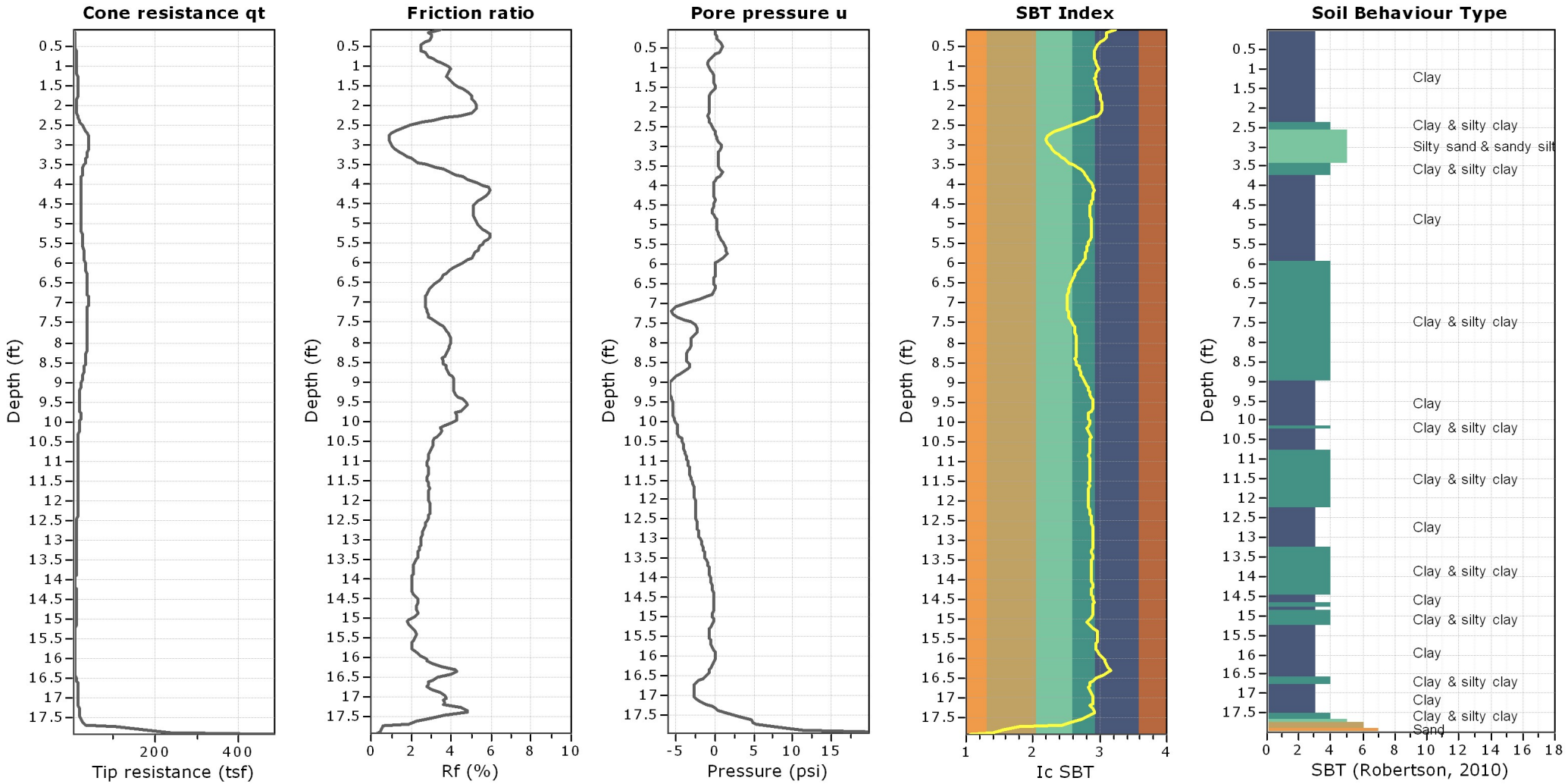
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-56
Total depth: 17.91 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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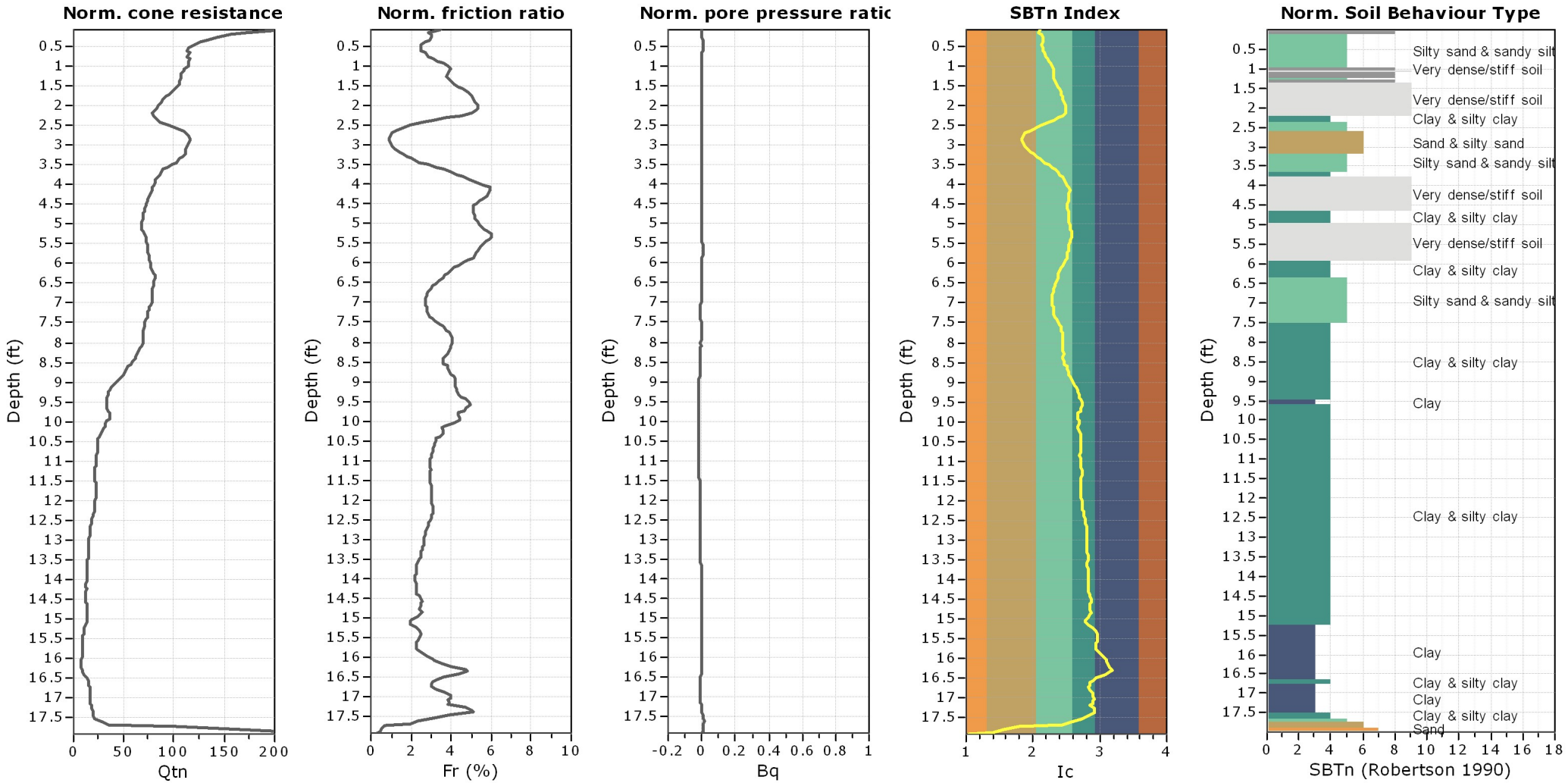
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-56
Total depth: 17.91 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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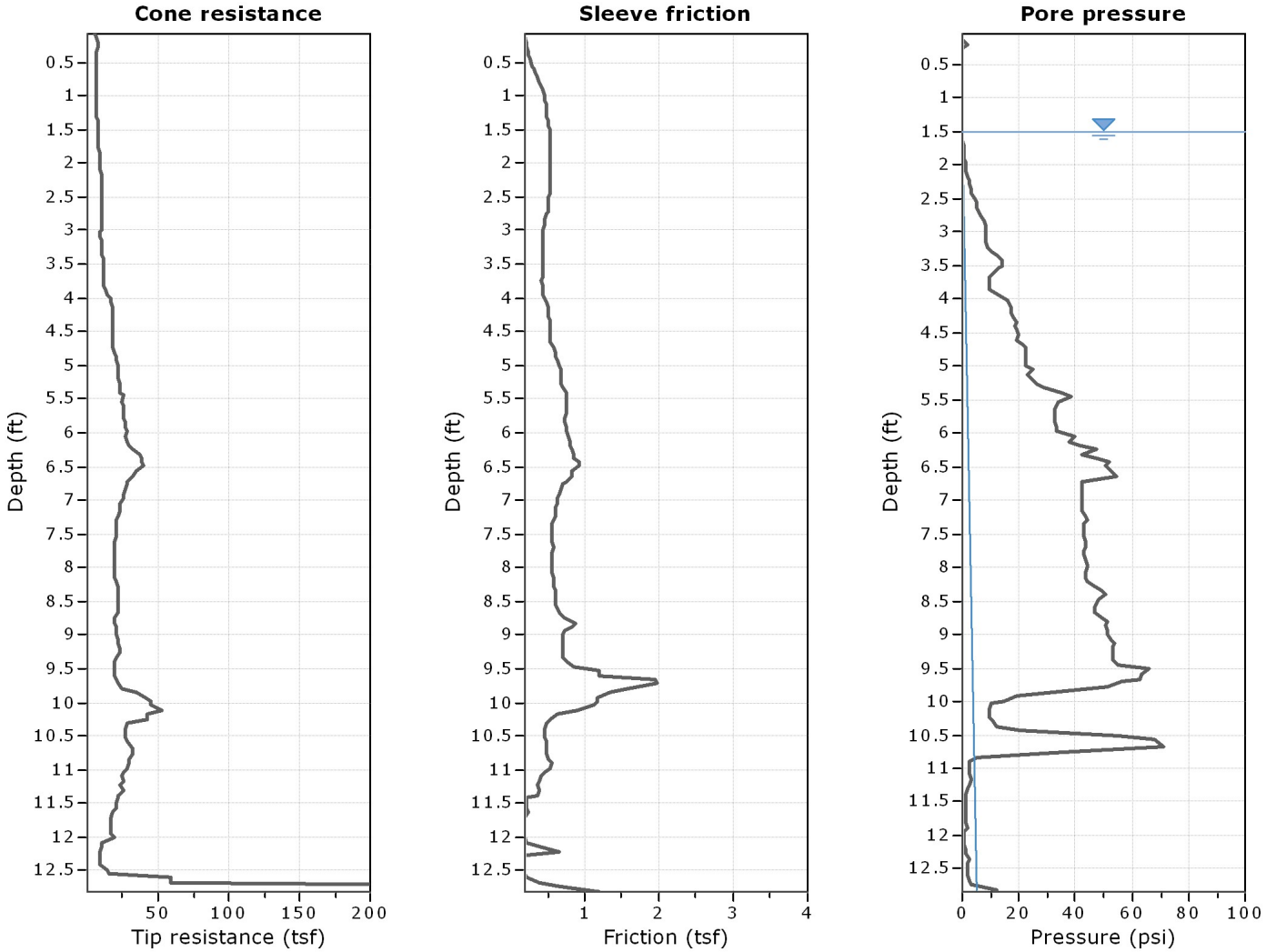
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-57
Total depth: 12.81 ft, Date: 10/6/2014



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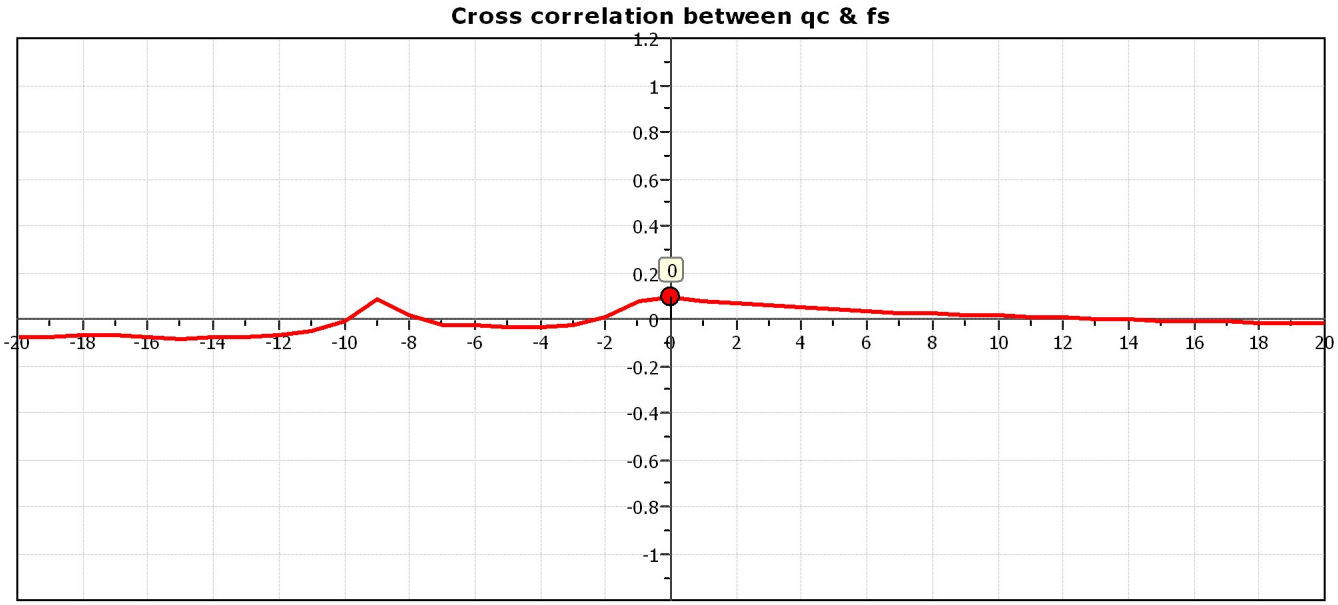

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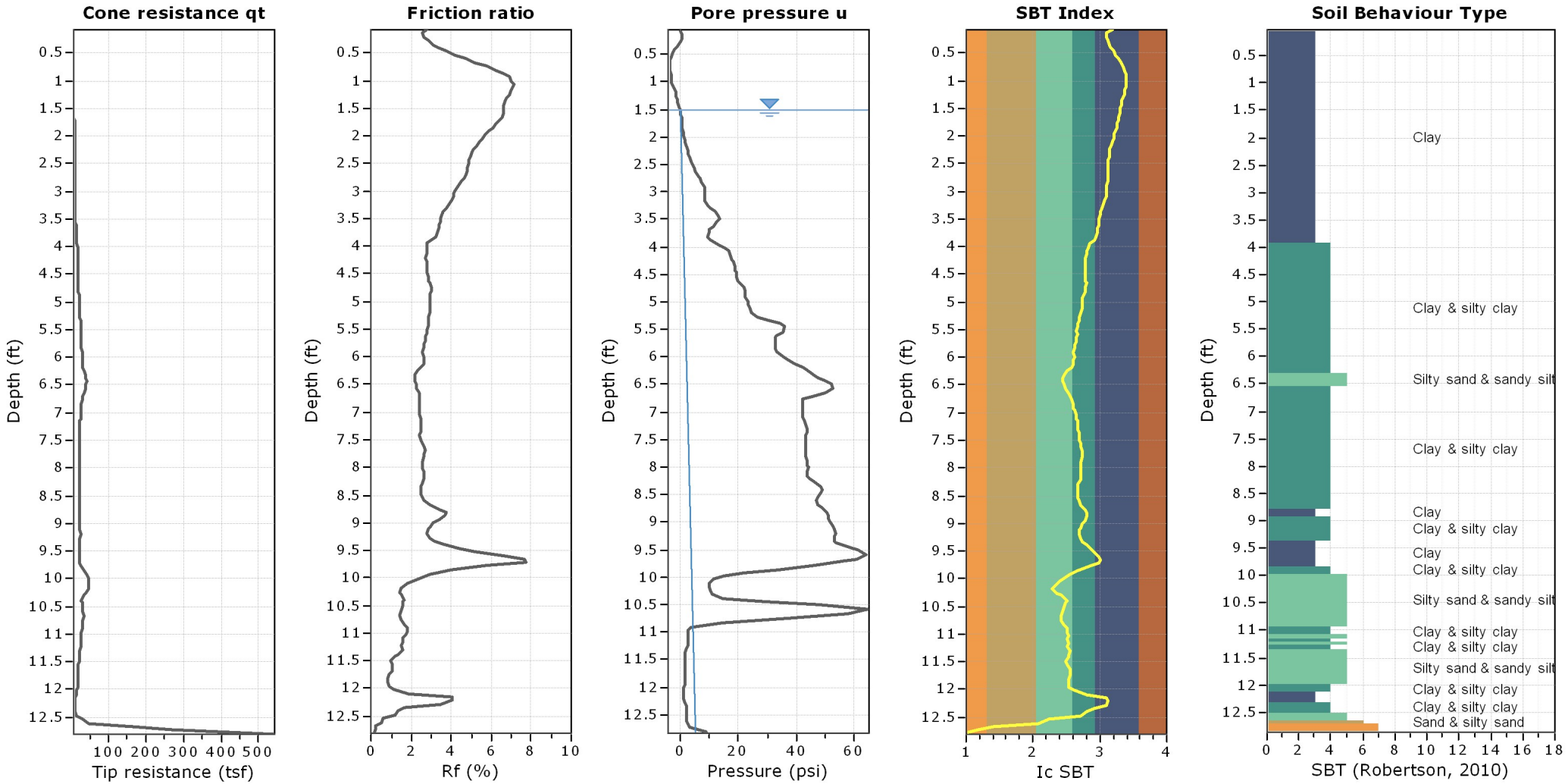
http://www.geotechnology.com

Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-57
Total depth: 12.81 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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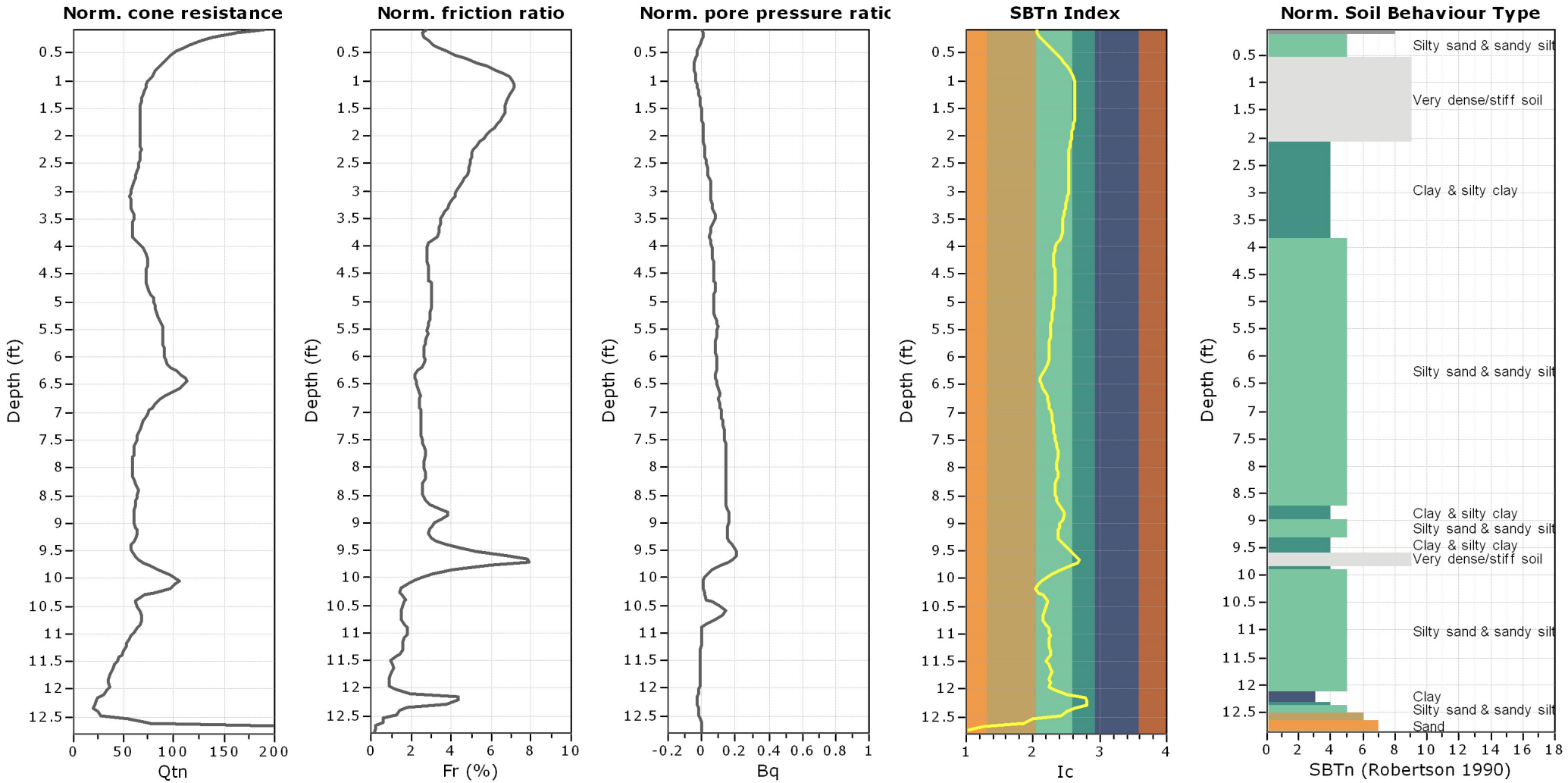
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-57
Total depth: 12.81 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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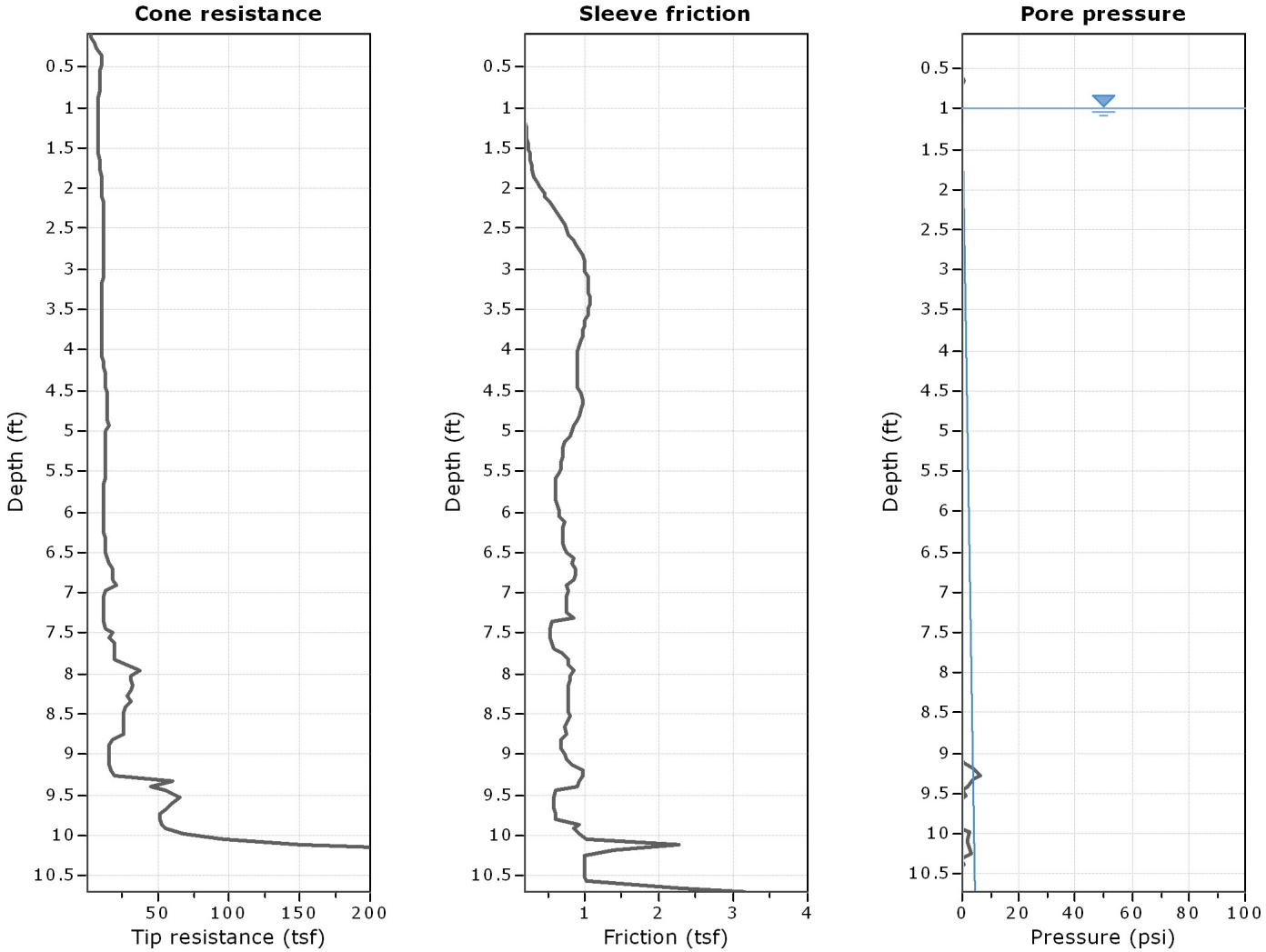
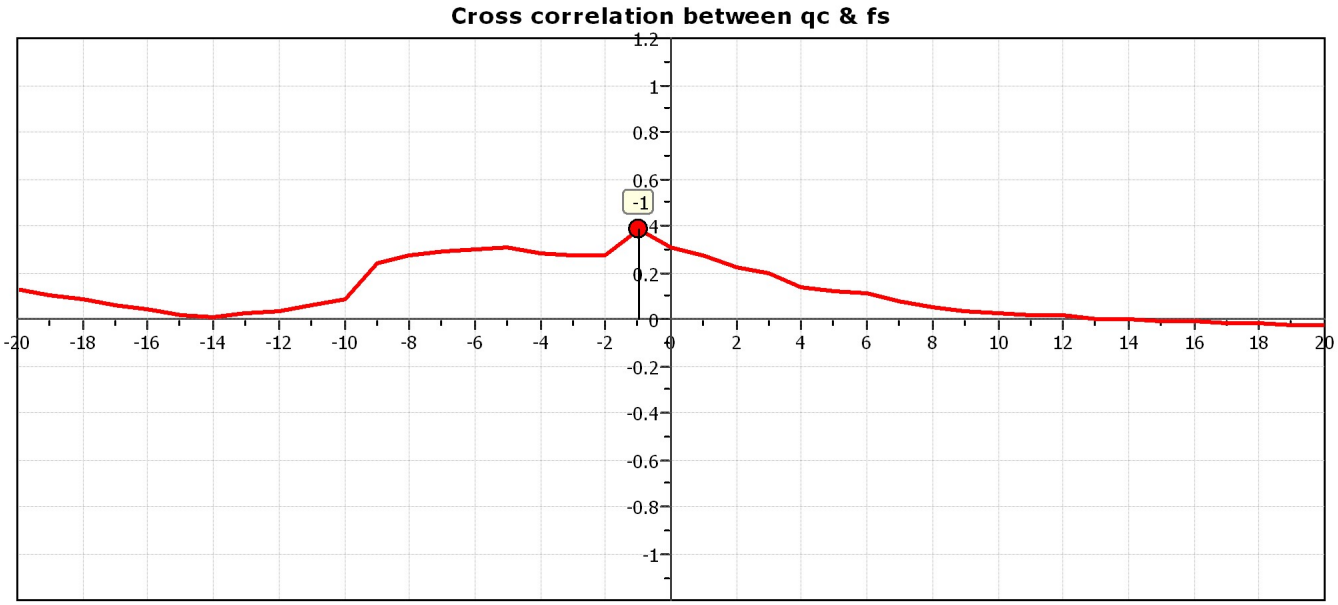
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-58
Total depth: 10.70 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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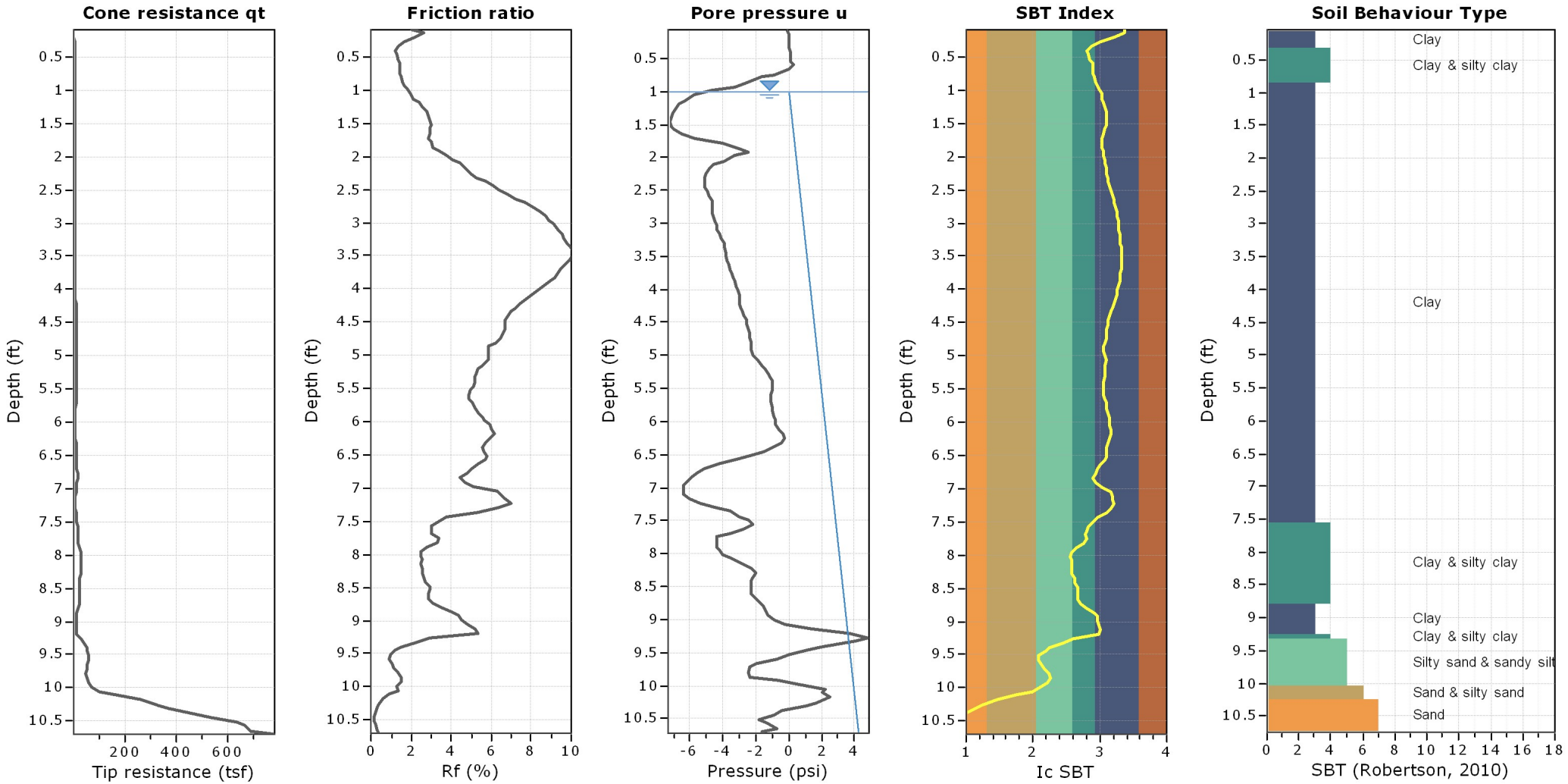
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-58
Total depth: 10.70 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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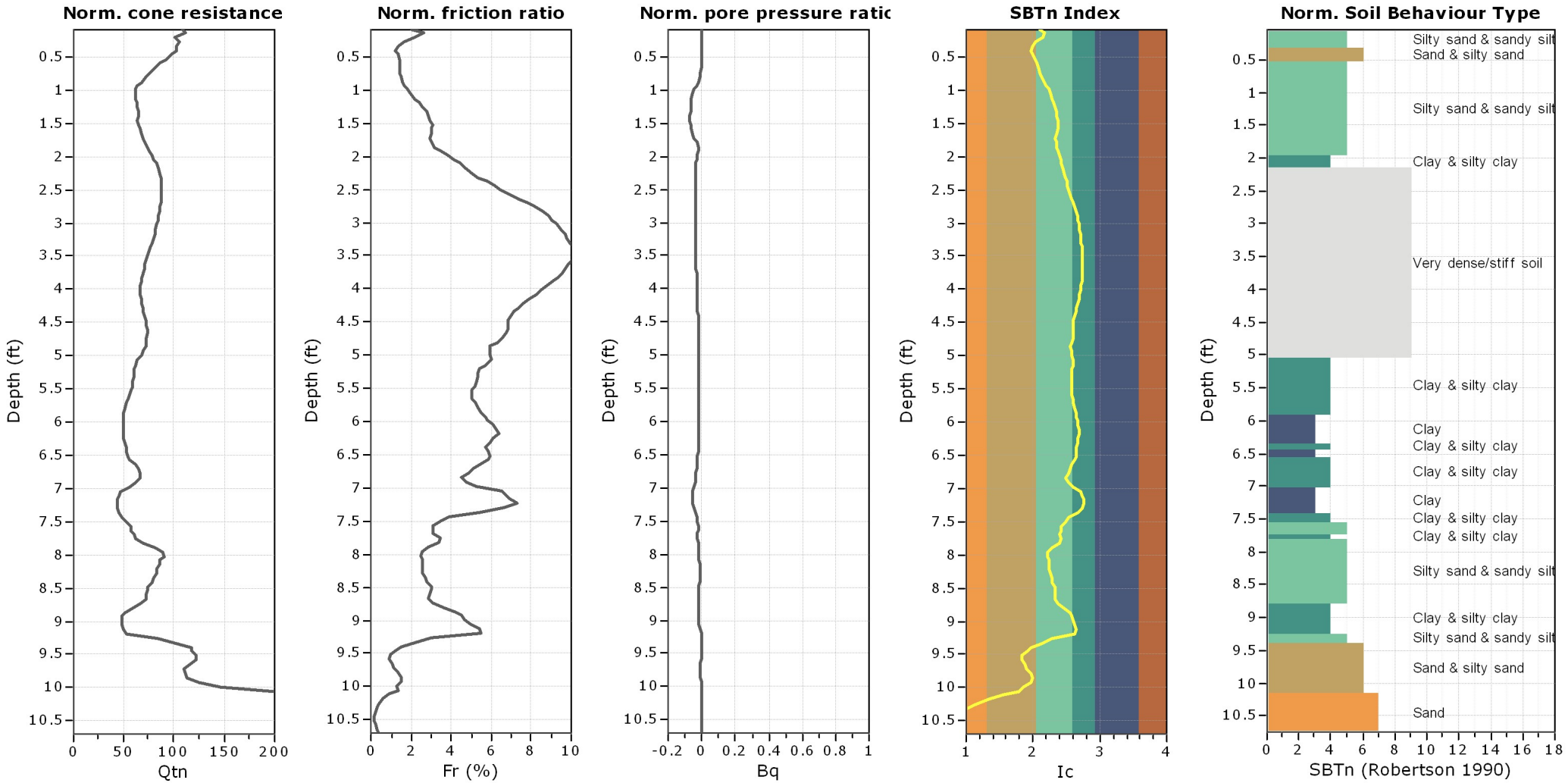
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-58
Total depth: 10.70 ft, Date: 10/6/2014



SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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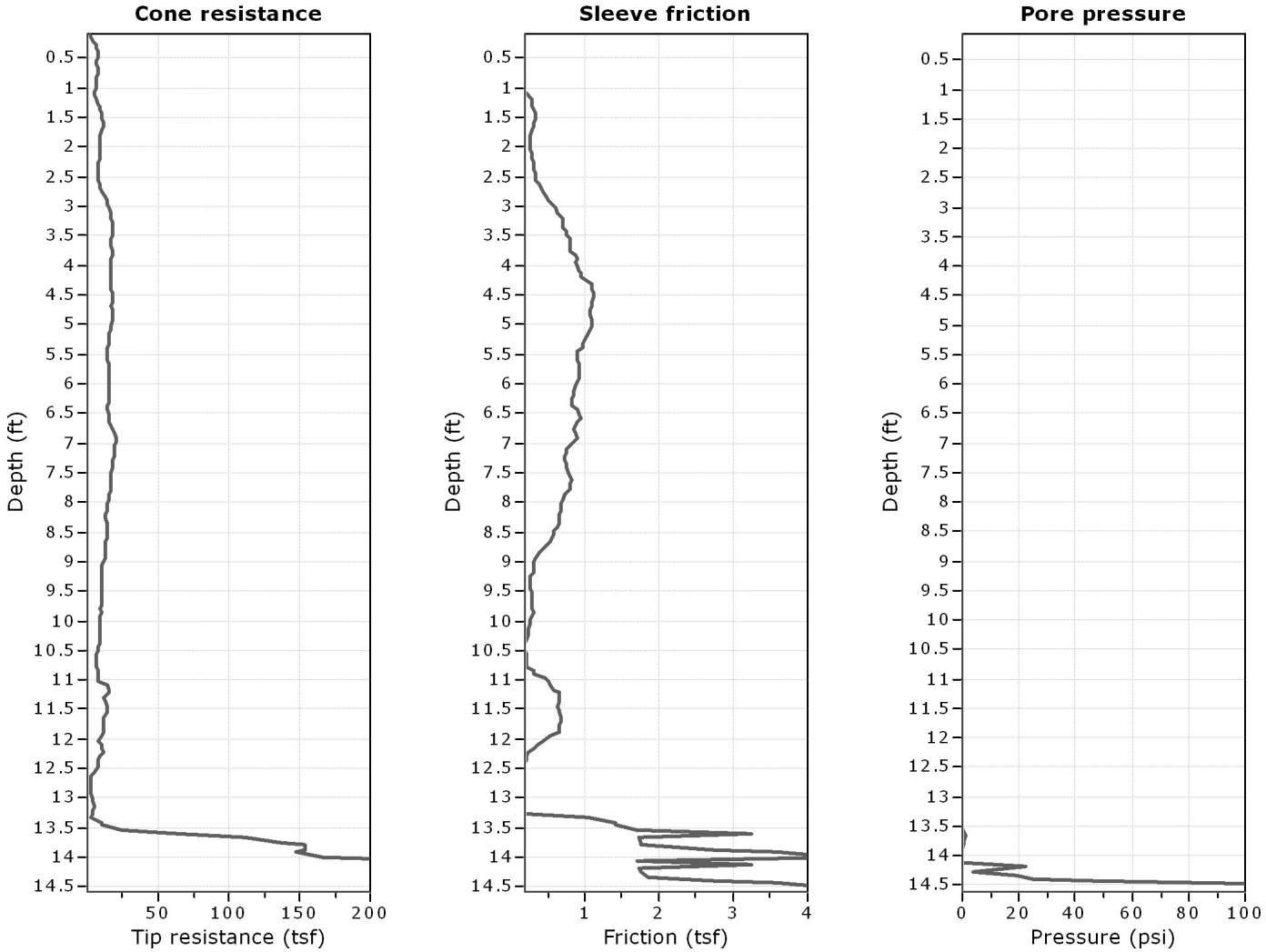
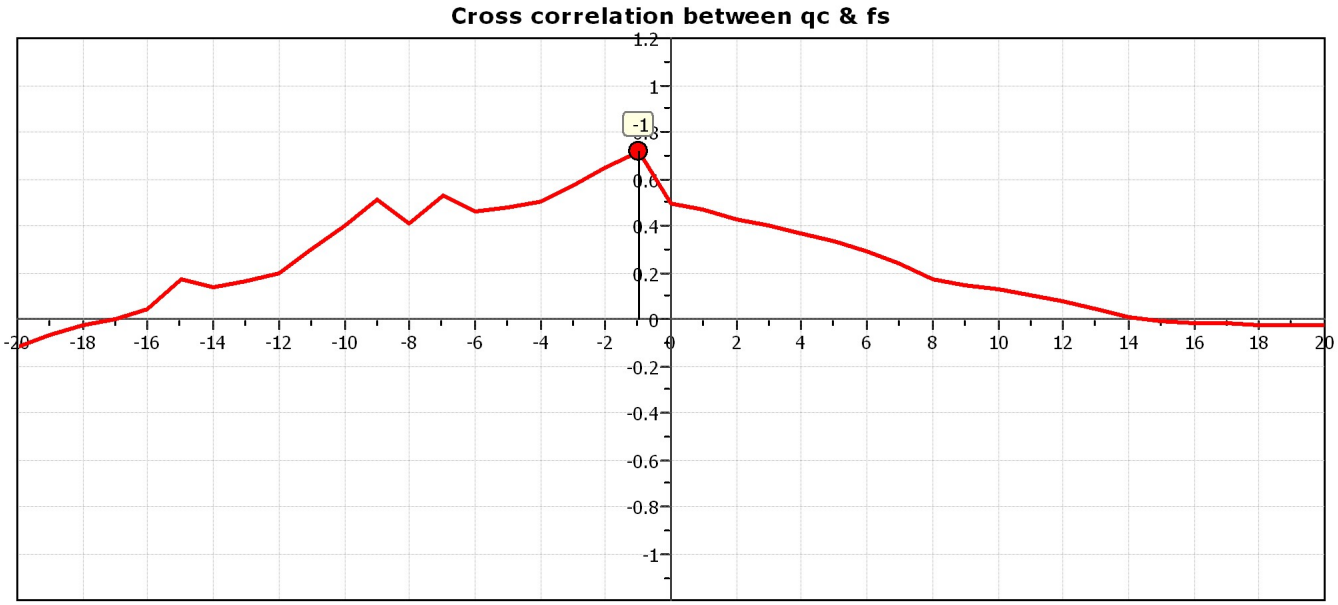
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-59
Total depth: 14.58 ft, Date: 10/6/2014



The plot below presents the cross correlation coeficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two sucessive CPT measurements).



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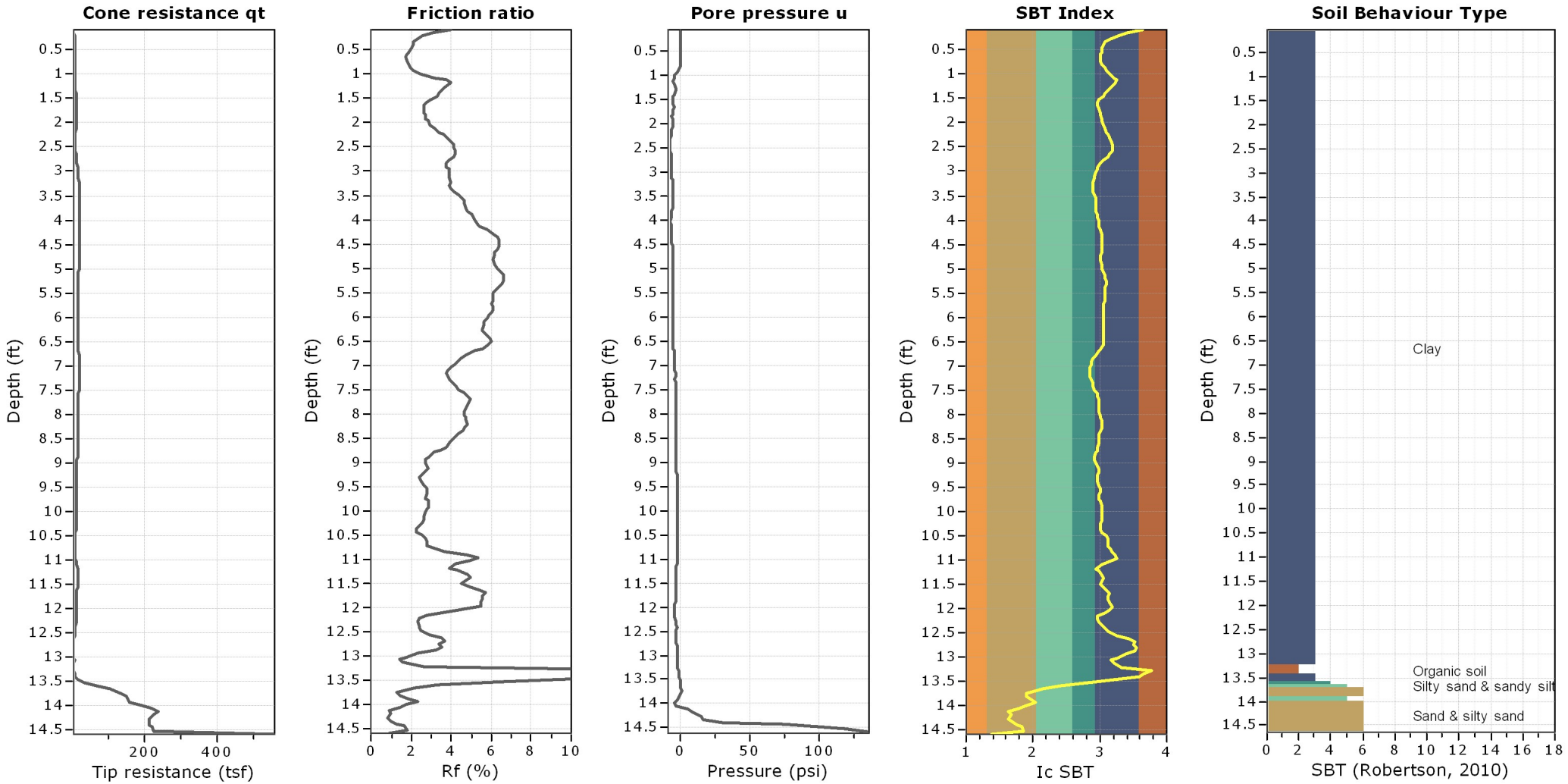
11816 Lackland Road, Suite 150
St. Louis, Missouri 63146
http://www.geotechnology.com

Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-59
Total depth: 14.58 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

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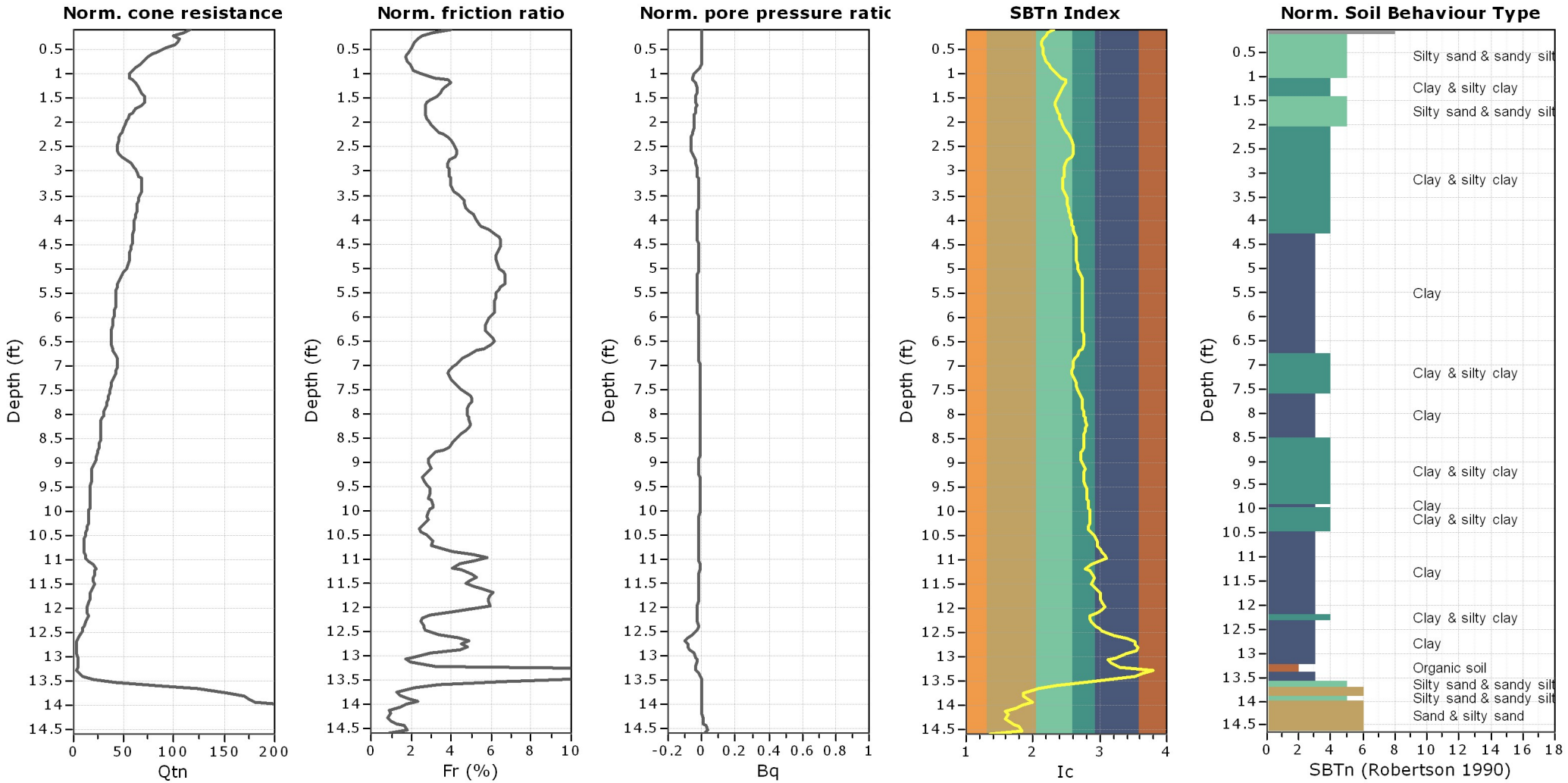

SBTn legend

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9. Very stiff fine grained

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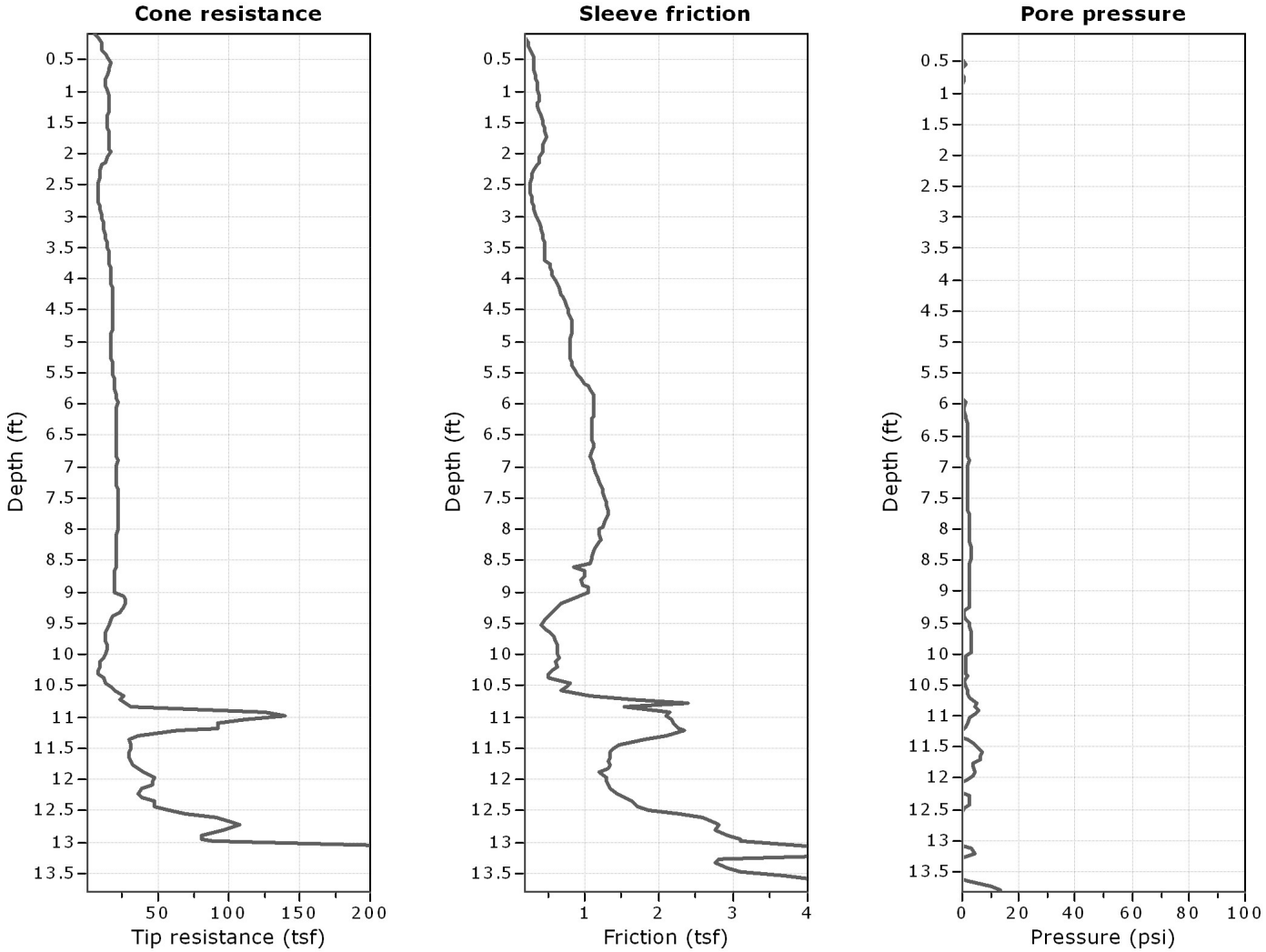
Project: **Neodesha Refinery**
Location: **Neodesha, Kansas**

CPT: LIF-60
Total depth: 13.79 ft, Date: 10/6/2014



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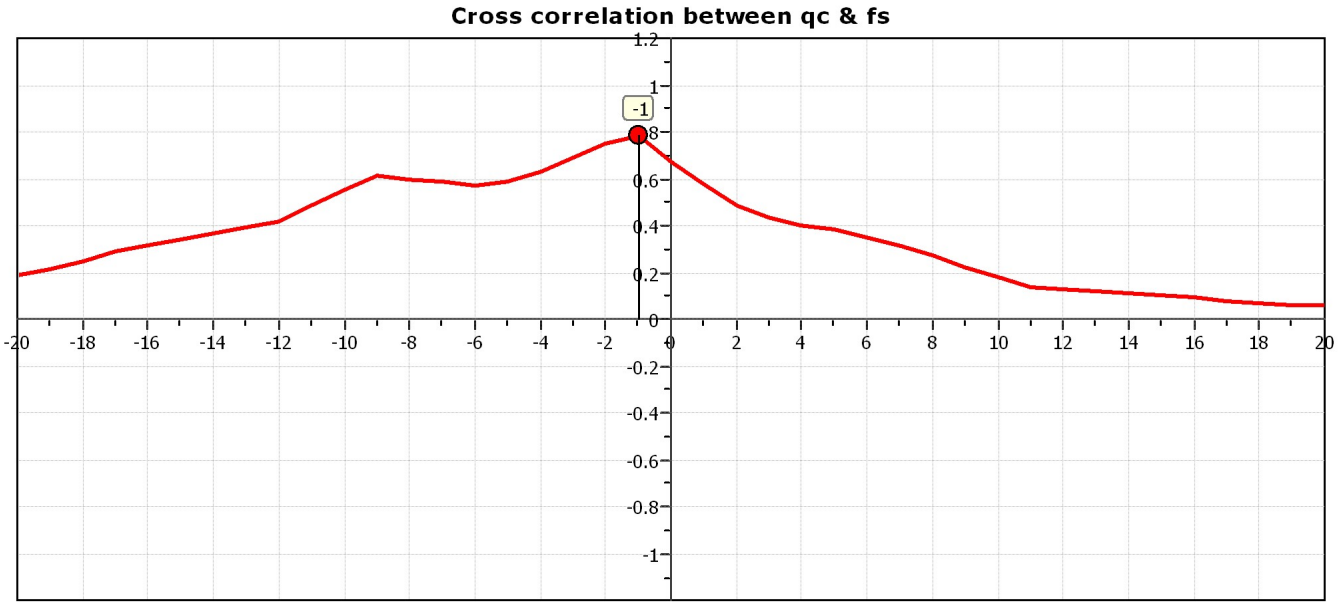

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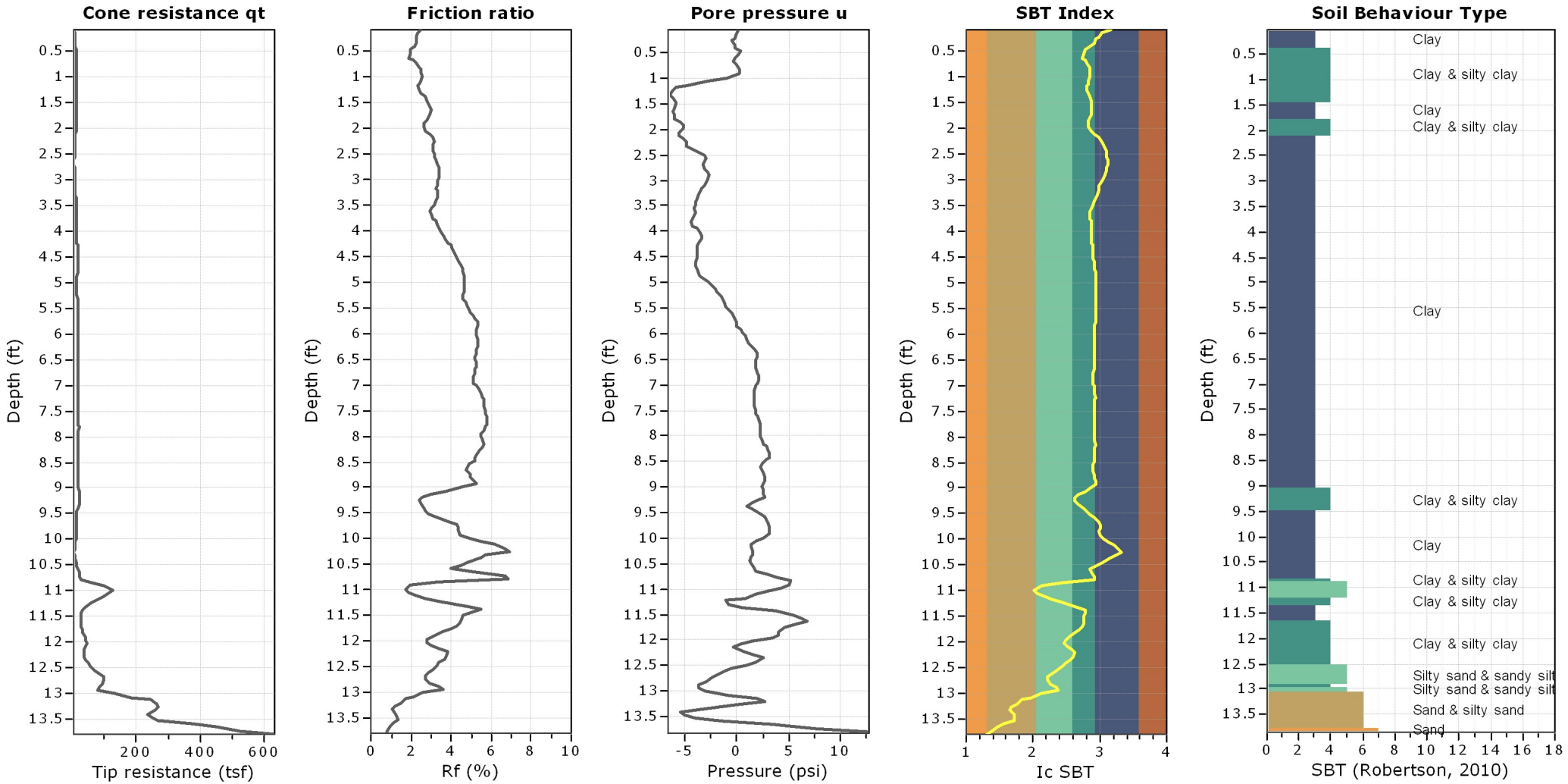
Location: **Neodesha, Kansas**

CPT: LIF-60
Total depth: 13.79 ft, Date: 10/6/2014



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
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5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
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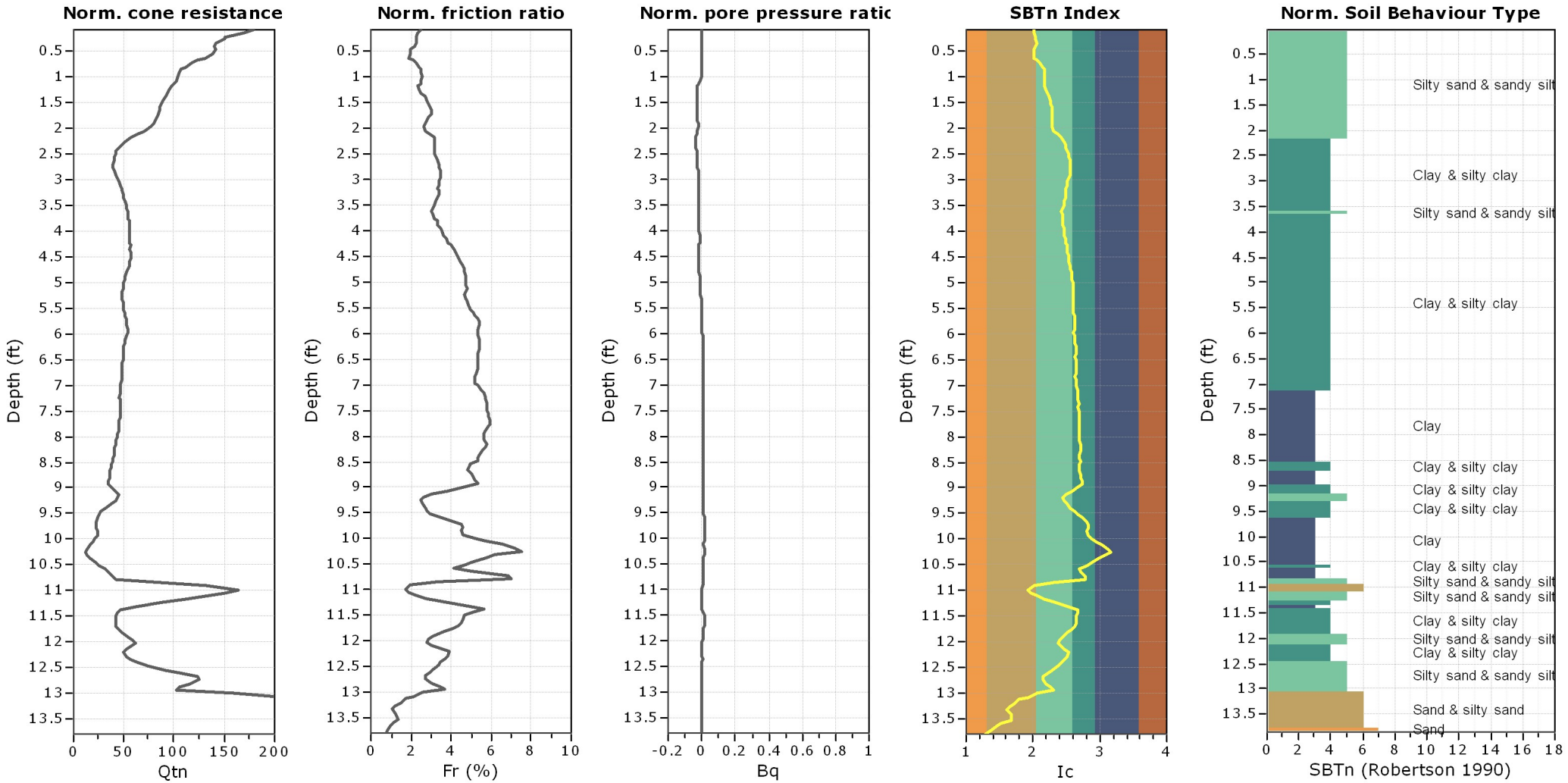

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