Enbridge
Cushing WTI Quality
COQA
March 2015
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The Enbridge Cushing Terminal is centrally located within the main complex of crude oil terminals south of Cushing, Oklahoma.

- Enbridge’s largest tank farm is located at Cushing Terminal in Cushing, OK – the world’s largest crude oil facility, a vital transshipment point on the energy landscape, and the most significant trading hub for North American crude. Enbridge has 87 storage tanks on more than 1,000 acres, and just over 20 million barrels in shell capacity.

- **Asset overview:**
- **Nature of asset:** Crude oil storage
- **Status:** Operational
- **Location:** Cushing, OK
- **Shell capacity:** About 20 million barrels
- **Products stored:** Light, medium and heavy crude
• Pipelines Connected to Enbridge
  – Inbound Pipelines
    • Spearhead Pipeline (193 kbpd)
    • Basin Pipeline (400 kbpd)
    • Keystone Pipeline (500 kbpd)
    • Flanagan South Pipeline (585 kbpd)
    • EOG Pipeline (80 kbpd)
    • Pony Express (230 kbpd)
  – Outbound Pipelines
    • Osage Pipeline (160 kbpd)
    • Seaway Pipeline (400 kbpd)
    • Seaway Twin Pipeline (500 kbpd)
    • Market Link (500 kbpd)
    • Ozark Pipeline (239 kbpd)
NYMEX Light Sweet Quality Results

### WTI Delivery Data - Jan 2015 YTD

#### Current Tests

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Sulfur (wt%)</th>
<th>Gravity (API)</th>
<th>S&amp;W %</th>
<th>Viscosity @ 100°F (cSt)</th>
<th>RVP (psia)</th>
<th>Pour Point (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit</td>
<td>&lt;0.42</td>
<td>37 to 42</td>
<td>&lt;1.0</td>
<td>&lt;10.32</td>
<td>&lt;9.5</td>
<td>&lt;50</td>
</tr>
<tr>
<td>AVG</td>
<td>0.39</td>
<td>41.17</td>
<td>0.09</td>
<td>2.90</td>
<td>7.32</td>
<td>-5.7</td>
</tr>
<tr>
<td>Overall On Spec (%)</td>
<td>90.7</td>
<td>94.1</td>
<td>99.9</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

#### Proposed Tests

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>MCR (wt%)</th>
<th>TAN (mgKOH/g)</th>
<th>Nickel (ppm)</th>
<th>Vanadium (ppm)</th>
<th>Light Ends &lt;220°F (mass%)</th>
<th>50% Point (°F)</th>
<th>Resid &gt;1020°F (mass%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit</td>
<td>&lt;2.40</td>
<td>&lt;0.28</td>
<td>&lt;8</td>
<td>&lt;15</td>
<td>&lt;19</td>
<td>470 to 570</td>
<td>&lt;16</td>
</tr>
<tr>
<td>AVG</td>
<td>1.71</td>
<td>0.12</td>
<td>4.97</td>
<td>13.39</td>
<td>16.56</td>
<td>514.7</td>
<td>12.07</td>
</tr>
<tr>
<td>Overall On Spec (%)</td>
<td>99.2</td>
<td>100.0</td>
<td>100.0</td>
<td>77.3</td>
<td>100.0</td>
<td>100.0</td>
<td>95.8</td>
</tr>
</tbody>
</table>
NYMEX Light Sweet Quality Results

WTI Sulfur - Receipt & Delivery

Sulfur (wt%)


- DELIVERY - Avg Sul Result
- DELIVERY - MAX Sul limit
- RECEIPT - Avg Sul Result
- RECEIPT - MAX Sul limit
NYMEX Light Sweet Quality Results
NYMEX Light Sweet Quality Results

API - Delivery

API_Not within Limits, MIN_API, MAX_API, Monthly Average API_Del
NYMEX Light Sweet Quality Results

S&W - Delivery

Monthly Average S&W_Del

S&W_MAX
NYMEX Light Sweet Quality Results

Viscosity @ 100F - Delivery

- VISC100F_RESULT
- VISC_LIMIT
NYMEX Light Sweet Quality Results

RVP - Delivery

RVP (psia)

Jan 15
Feb 15
Mar 15
Apr 15
May 15
Jun 15
Jul 15
Aug 15
Sep 15
Oct 15
Nov 15
Dec 15
Jan 16
Feb 16

RVP_RESULT
RVP_LIMIT
NYMEX Light Sweet Quality Results

Pour Point - Delivery

Pour Point (°F)

-20
-10
0
10
20
30
40
50
60
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16

POUR_POINT_RESULT
POUR_POINT_LIMIT
NYMEX Light Sweet Quality Results
NYMEX Light Sweet Quality Results

TAN - Delivery

mgKOH/g

TAN RESULT
TAN_LIMIT


NYMEX Light Sweet Quality Results

Nickel - Delivery

ppm

Jan15
Feb15
Mar15
Apr15
May15
Jun15
Jul15
Aug15
Sep15
Oct15
Nov15
Dec15
Jan16
Feb16

NICKEL_RESULT

NICKEL_LIMIT
NYMEX Light Sweet Quality Results

Vandium - Delivery

ppm

- VANADIUM_RESULT
- VANADIUM_LIMIT
NYMEX Light Sweet Quality Results

Light Ends - Delivery

% Mass

NAPTHA_RESULT

NAPTHA_LIMIT
NYMEX Light Sweet Quality Results

50% Point - Delivery

Degrees F


50%PT_RESULT | MIN Limit | MAX Limit

[Graph showing temperature fluctuations over time]
NYMEX Light Sweet Quality Results

Resid - Delivery

% Mass

RESID_RESULT
RESID_LIMIT
NYMEX Light Sweet Quality Results
NYMEX Light Sweet Quality Results

Sulfur - Feeder A WTI

AVG SUL  MAX SUL_LIMIT