CME Group and the Implementation of the WTI Specifications

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COQA Meeting



# **Agenda**

- Update on the Recent Cushing Deliveries
- WTI Quality is meeting the new specs
- The benefits of adopting the COQA WTI specs
  - Refiners benefit from stable and certain quality
  - Stable WTI Quality will <u>transform</u> the global market
  - New supply sources will increase competition globally

## **Brief History of the WTI Spec Change**

#### **2016**

- As concerns increase about WTI quality, COQA creates a Domestic Sweet Monitoring Program Subcommittee to analyze and publish data on the current quality of WTI
- CME Group becomes a funding member of the Domestic Sweet Monitoring Program, and actively supports testing efforts in collaboration with its oil industry customers

#### 2017

- Over 100 random samples of Domestic Sweet were analyzed and reviewed
- Terminal operators Enterprise and Enbridge approve the new tests
- On December 11, 2017 CME Group announced the revision of the WTI rulebook to adopt the new tests effective starting on January 2019 (12 months notice)

#### **2019**

- The revised WTI specifications came into effect starting with January 2019 contract month
- WTI deliveries are complying with the new specifications in 2019

#### **Five New Additional Tests**

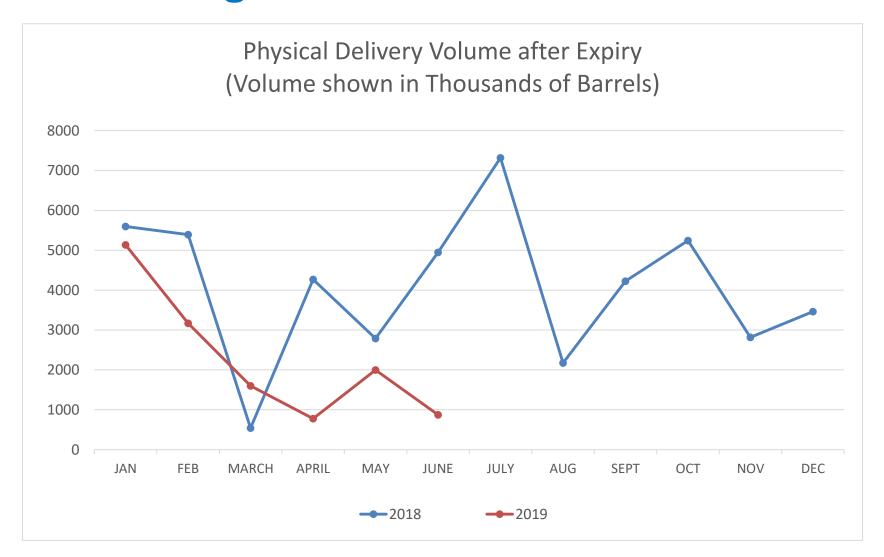
- Micro Method Carbon Residue: 2.40% or less by mass; as determined by ASTM Standard D4530-15, or its latest revision;
- Total Acid Number (TAN): 0.28 mg KOH/g or less as determined by the first inflection point; using ASTM Standard D664-11a (2017), or its latest revision;
- Nickel: 8 parts per million (ppm) or less by mass; as determined by ASTM Standard D5708-15, Test Method B, or its latest revision;
- Vanadium: 15 ppm or less by mass; as determined by ASTM Standard D5708-15, Test Method B, or its latest revision;
- High-Temperature Simulated Distillation (HTSD) as determined by ASTM Standard D7169-16, or its latest revision, as follows:
  - (a) Light Ends <220°F by HTSD: Not more than 19% by mass;
  - (b) 50% Point by HTSD: 470°F- 570°F;
  - (c) Vacuum Residuum >1020°F by HTSD: Not more than 16% by mass.



### **Update on the Phase-in of WTI tests**

- Cushing WTI-type crude oil complying with the additional WTI tests
- Cushing Terminals conducting additional testing
- Delivery Volumes in 2019 on Par with 2018 so far
- Cushing Terminals performed well during Phase-in period

# **NYMEX Light Sweet Crude Oil Futures**





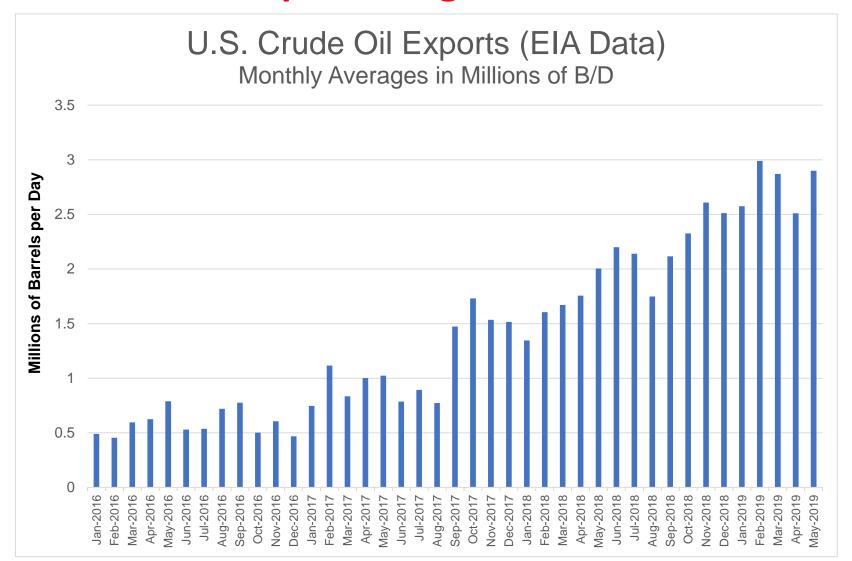
## Benefits of adopting the additional WTI tests

- Refiners benefit from stable quality and certainty
- Stable WTI quality will <u>benefit</u> the global marketplace
  - Uniform WTI quality will drive the Export market
    - Why? Global refiners have new supply source
    - Uniform and Fungible WTI pool will promote efficiency and transparency in the market
    - Better Transparency with <u>crudemonitor.us</u>

#### Stable WTI quality will <u>transform</u> the global market

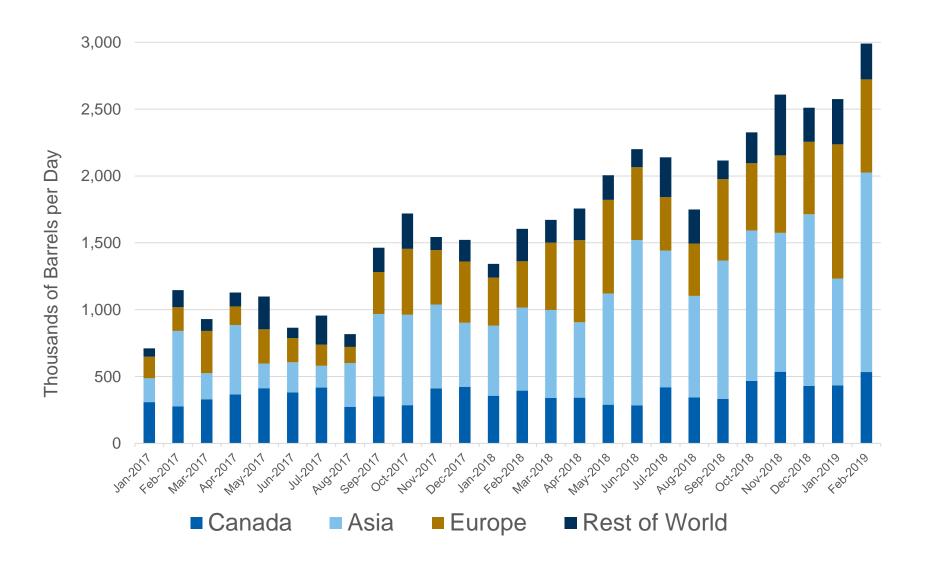
- A fungible pool of stable WTI will energize the Asian and European refiners who are thirsty for new supply sources
- Nearly 7 million barrels per day of WTI-type crude oil produced in Permian, Eagle Ford, Bakken, DJ Niobrara, and Oklahoma
- 4.5 million barrels per day produced in the Permain and Eagle Ford
- Stable and certain WTI quality will create a powerhouse in the global marketplace with a <u>massive</u> fungible pool of crude oil
- Uniformity in WTI quality will drive efficiency in the Export market with more competition and transparency like never before

## **U.S crude oil exports surge**





### **U.S. Crude Exports by Country**





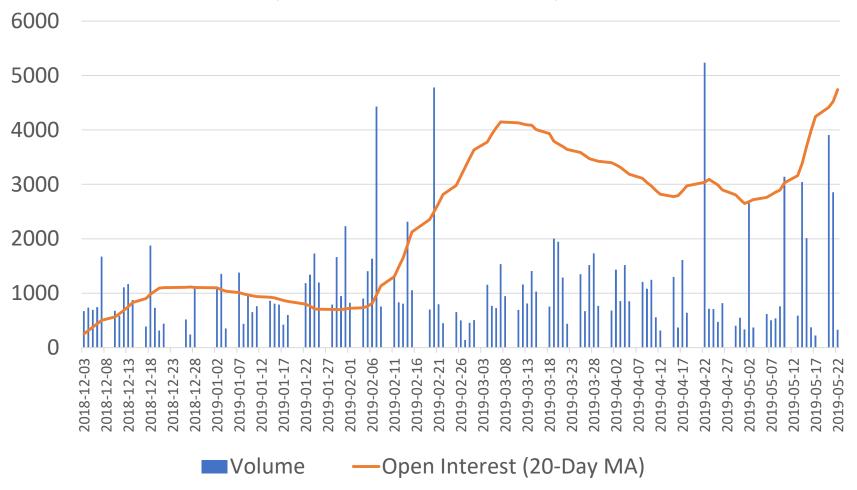
## **NYMEX WTI Houston Futures**

- Features waterborne or terminal delivery FOB Houston for WTI export cargoes.
- Export Quality Specifications:
  - API Gravity of 40 to 44 Degrees
  - Sulfur 0.275% maximum
  - Vanadium metal content of 4 parts per million (ppm) maximum
- Delivery at three Houston terminals operated by Enterprise Products LP:
  - Enterprise's Echo terminal
  - Enterprise Houston Ship Channel terminal
  - Enterprise's Genoa Junction

#### **NYMEX WTI Houston Futures Contract**

#### Daily Trading Volume and Open Interest

(One Futures Contract = 1000 Barrels)





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