The History and Purpose of the Permian Basin Crude Quality Coalition (PBCQC)

Presented by: Noah Dean
**Crude Oil Analytical Capabilities**
- ASTM D5002 / ASTM D4052 API Gravity
- ASTM D4007 / ASTM D1796 BS&W - Centrifuge
- ASTM D7042 Stabinger Viscosity
- ASTM D4294 Sulfur by X-ray
- ASTM D86 / ITM 3476 Boiling Point / Distillation
- ASTM D6377 Vapor Pressure (VP CR4)
- ASTM D323 Vapor Pressure (Reid Method)
- ASTM D56 / ITM 3475 Flash Point (Closed Cup Method)
- ASTM D5705 Modified - $H_2S$ in Vapor
- UOP 163 Hydrogen Sulfide by Titration
- ASTM D5708 Metals Analysis Ni, V, Fe by ICP
- ASTM D6560 Asphaltene Analysis
- ASTM D664 Acid Number by Titration
- ASTM D3230 Salt Content by Electrometric Method
- ASTM D7536 Mod Chlorine in Crude Oil by X-Ray
- ASTM D4530 Micro Carbon Residue Test (MCRT)
- ASTM D97 / D2500 Pour Point and Cloud Point
- ASTM D482 Ash Content of Petroleum Products
- ASTM D4006 / D95 / D1796 Water by Distillation
- ASTM D473 Sediment by Extraction in Crude

**Gas & LPG Analytical Capabilities**
- GPA 2261 C6+ by GC Analysis of Natural Gas
- GPA 2286 C7+ by GC Extended Analysis of Natural Gas
- GPA 2177 C6+ by GC Analysis of Liquid Pressurized Gas (LPG)
- GPA 2186 C7+ by GC Extended Analysis of LPG
- ASTM D1945 Analysis of Natural Gases and More
- ASTM D1946 Composition of Reformed Gases by GC Analysis

**Expert Sampling Services**
ST. JAMES, LA

Crude Oil Laboratory located in St. James, LA
Slated to open in April, 2019

- Laboratory Testing
- Onsight inspectors 24/7
- Sampling and Vessel Inspections
- Sample Retain/Disposal
HISTORY OF THE PBCQC

December, 2016

“RVP Wars”
PBCQC Meetings:

• First meeting 04/26/17 – Laboratories not invited for first 3 meetings
  • Started with 10 upstream, midstream, downstream invitees
• Currently ~150 invitees; ~40 regularly attend
• Companies Invited and/or Represented
  • Apache, Cameron, Centurion, Concho, Dorado Transportation, Energen, EnLink, Enterprise, EOG, Intertek Caleb Brett, Magellan, Medallion, Oxy, P66, Pioneer, Plains, Reliance, Shell, XTO, and more...
Permian Basin Crude Quality Coalition (PBCQC)

Mission Statement - “Working toward collective crude quality solutions in the Permian Basin”

• Communicate technicalities such as limits, standards, and general Crude Quality Control aspects
• Educate on specific testing methods and protocols (i.e. Solvent for “shakeouts”)
• Allow vendors to introduce latest instruments/technology
• Safety
PBCQC Meetings:

Topics include (but not limited to)...

• Vapor Pressure or “RVP”
• H₂S
• Sampling, Transport and Storage Procedures
• CME Specs for “Light Sweet Crude”
• Upcoming/New Technology
  • Sulfur Analyzers
  • Vapor Pressure Reducers
  • Etc.
• Anything “forward thinking” in regard to ever-changing crude quality guidelines and specifications
Discussion?