## Benchmark West Texas Intermediate crude assayed

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ere is an assay of West Texas Intermediate, one of the world's market crudes. The price of this crude, known as WTI, is followed by market analysts, investors, traders, and industry managers around the world.

WTI price is used as a benchmark for pricing all other U.S. crude oils. The 41° API, 0.34 wt % sulfur crude is gathered in West Texas and moved to Cushing, Okla., for distribution.

The WTI posted price is the price paid for the crude at the wellhead in West Texas and is the true benchmark on which other U.S. crudes are priced. The spot price is the negotiated price for short-term trades of the crude. And the New York Mercantile Exchange, or Nymex, price is a futures price for barrels delivered at Cushing.

## West Texas Intermediate

## Cushing, Okla.

Whole crude
Gravity, API: 40.8
Specific gravity @ 60/60 F.: 0.8212
Sulfur, wt %: 0.34
Vis., cSt @ 60° F.: 5.24
Neut. no., mg/g: 0.10
Nitrogen, wt %: 0.08
Pour pt., F.: -20

Light ends C<sub>1</sub>-C<sub>5</sub>, wt %: 4.35

Range, °F.: 68-347 Yield, vol %: 32.39 RON, clear: 56.4\* Sulfur, wt %: 0.0314

Range, °F.: 347-563 Yield, vol %: 23.50 Specific gravity @ 60/60: 0.8201 Sulfur, wt %: 0.110 Aniline pt., °F.: 150.5 Vis., cSt @ 100° F.: 1.87 Freeze pt., °F: –25 Pour pt., °F.: –33 Smoke pt., mm: 22.1

Range, °F.: 563-650 Yield, vol %: 8.10 Specific gravity @ 60/60: 0.8529 Sulfur, wt %: 0.289 Aniline pt., °F.: 176.9 Vis., cSt @ 100° F.: 6.21 Freeze pt., °F.: 38\* Pour pt., °F.: 30

Range, °F.: 650-1,049 Yield, vol %: 24.30 Specific gravity @ 60/60: 0.8960 Sulfur, wt %: 0.445 Nitrogen, wt %: 0.105 V/Ni, ppm: 0.04\*/0.09\*

Range, °F.: 650-1,500 Yield, vol %: 33.30 Specific gravity @ 60/60: 0.9153 Sulfur, wt %: 0.72 Vis., cSt @ 140° F.: 56.8 Pour pt., °F: 78 V/Ni, ppm: 4.3/4.3 Fe, ppm: 20.2 Range, °F.: 761-1,500 Yield, vol %: 25.30 Specific gravity @ 60/60: 0.9268 Penetration @ 25° C., mm: >2,000† Vis., cSt @ 212° F.: 26.70

Range, °F.: 878-1,500 Yield, vol %: 17.95 Specific gravity @ 60/60: 0.9403 Penetration @ 25° C., mm: >2,000† Vis., cSt @ 212° F.: 58.7

Range, °F.: 1,049-1,500 Yield, vol %: 9.00 Specific gravity @ 60/60: 0.9672 Penetration @ 25° C., mm: 1,035.5† Vis., cSt @ 212° F.: 360.3

\*Extrapolated †Estimated Smaller ture to out by a produc company, element in fracturing Valley in County, T.

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