



WICHITA CALGARY HOBBS OCD

JUN 23 2017

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June 21, 2017

Mr. George Bower Oil Conservation Division - District 1 1625 N. French Drive Hobbs, New Mexico 88240

Subject: Western Refining Company, LP – State LPG Storage No. 4 MIT

Dear Mr. Bower,

Western Refining Company, LP has performed a nitrogen-brine MIT on one of their storage cavern wells, State LPG Storage No. 4 (API No. 30-025-35957), located in the Jal Station Field in Lea County, New Mexico.

Nitrogen was injected on May 9th, 2017. An hour liner test was performed successfully with the following parameters:

• Nitrogen-brine interface start depth: 1,549'

Start Annulus Pressure: 992.43 psig

• Nitrogen-brine interface end depth: 1,549'

End Annulus Pressure: 991.54 psig

The 60-minute liner test passed with the pressures following a stabilization trend throughout the liner test period. Nitrogen injection continued until the nitrogen-brine interface was measured at 1,635'. An hour casing test was performed successfully with the following parameters:

• Nitrogen-brine interface start depth: 1,635'

Start Annulus Pressure: 1,037.04 psig

Nitrogen-brine interface end depth: 1,635'

End Annulus Pressure: 1,036.23 psig

The 60-minute casing test passed with the pressures following a stabilization trend throughout the casing test period. Nitrogen injection continued into the borehole until the nitrogen-brine interface was measured at 1,682'. The well was shut in and allowed to stabilize overnight. The MIT was initialized on May 10th, 2017 at 09:00 with the following parameters:

Annular pressure: 1,187.44psig

Tubing pressure: 527.10 psig

Nitrogen-brine interface: 1,682'

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> The pressure was monitored throughout a 72 hour period and finalized on May 13th, 2017 at 09:00 with the following parameters:

Annular pressure: 1,180.72 psig Tubing pressure: 740.37 psig • Nitrogen-brine interface: 1,682'

• Test Gradient at Casing Shoe: 0.77 psi/ft Calculated Leak Rate: 224.07 bbls/yr

Minimum Detectable Leak Rate: 756.06 bbls/year

It was determined that State LPG Storage No. 4, at the time of this test, demonstrated the mechanical integrity required for the storage of hydrocarbons.

Included in this package are:

- MIT Report for State LPG Storage No. 4
- Test Density Log
- Test Temperature Log

Please contact me by phone (832-216-0785) or via email (eric@lonquist.com) if you have any questions.

Sincerely,

Eric Busch

Senior Vice President

CC: Richard Lonquist - Lonquist Field Service, LLC