

SUPPLEMENTARY WELL HISTORY

Moved in pulling unit, pulled 2½" tbg and ran GR/N log from 3730' to surface. Set Baker Model "K" bridge plug @ 3640' and dumped 1½ sx cement on top of same. Tested csg and plug w/1000# for 30 minutes - O.K. Perforated 5½" csg @ 2195' w/four ½" bullets and broke circulation on 5½" x 7-5/8" bradenhead.

Ran in hole w/retrievable cementer on 2½" tbg and set @ 2053'. Cemented 5½" csg thru perfs @ 2195' w/500 sx 1:1 Pozmix w/6% gel, followed by 100 sx regular w/4% gel. Cement circulated. Drilled out cement plug and tested perfs @ 2195' w/1500#, pressure bled to 1200# in 4 minutes.

Broke down perfs and squeezed w/150 sx Trinity Inferno slo-set followed by 30 sx Latex cement. Maximum pressure - 1200# - Held O.K. Drilled out cement plug, tested perfs to 1800# and pressure bled to 1450# in 1 minute.

Broke down perfs and squeezed w/50 sx Latex cement. Maximum pressure - 1600#, shutdown pressure - 1450# - held O.K. Drilled out cement plug and tested perfs @ 2195' w/2000# and pressure bled to 1550# in 1 minute.

Broke down perfs @ 2195' and squeezed w/50 sx 1:1 Calseal/cement followed by 50 sx regular. Max. pressure - 1500#, held O.K. Drilled out cement plug and tested perfs to 1500# and pressure bled to 1200# in 1 minute. Opened 5½" csg, well flowing salt water back from perfs @ 2195' @ rate of 1/4 bbl/minute @ 0#; no gas.

Squeezed perfs @ 2195' w/50 sx 1:1 Calseal/cement followed by 50 sx regular, Max. pressure - 1800# - no squeeze. Cleared perfs w/3 bbls water, waited 12 hrs. and followed w/50 sx 1:1 Pozmix w/20% salt, max. pressure - 1900# - no squeeze. Cleared perfs, waited 4 hrs and followed w/2nd stage of 50 sx 1:1 Pozmix w/20% salt, max. pressure - 1800# - no squeeze. Cleared perfs, waited 5 hrs and followed w/third stage of 50 sx 1:1 Pozmix w/7% salt, max. pressure - 1600# - no squeeze. Cleared perfs, waited 14 hrs and followed w/4th stage of 50 sx 1:1 Pozmix w/7% salt, max. pressure - 1600# - no squeeze. Cleared perfs, waited 4½ hrs and followed w/5th stage of 50 sx 1:1 Pozmix w/7% salt, max. pressure - 3400# - held O.K.

Drilled out plug and tested perfs @ 2195' w/1500# and pressure bled to 1350# in 5 min. Opened csg and well flowing salt water from perfs @ 2195' @ approx. 1/4 bbl/min. @ 0#. No gas. Shut well in and pressure built to 800# in 20 min; 1000# in 1½ hrs; 1425# in 24 hrs.

Squeezed perfs @ 2195' w/6 stages of 100 sx 1:1 Pozmix w/5% salt w/minimum of 4 hrs between stages. Max. pressure, last stage - 4000# - held O.K.

Drilled out cement and tested perfs @ 2195' w/1800# and pressure bled to 1650# in 7 min. Bled pressure to 0# and well flowing back salt water @ approx. 1/4 bbl/min. @ 0#. No gas.

Squeezed perfs @ 2195' w/500 sx 1:1 Pozmix w/15% salt followed by 500 sx regular; regular mixed w/saturated salt water. Max. pressure - 1600# - no squeeze. Cleared perfs, waited 14 hrs and followed w/1000 sx 1:1 Pozmix w/15% salt followed by 50 sx Latex w/2# Tuf-plug. Max. pressure - 1800#, 5 min. shutdown pressure - 1350#, held O.K. Left 100' cement plug in pipe.

THEORY OF THE EARTH

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