

DETAILS OF WORK

Drilled 7002' - 12,010'. Cored 12,010' - 12,070' Total Depth. DST #1: 12,020' - 12,060' Devonian. Gas to surface in 2 hours 55 minutes. Recovered 96 barrels oil, 10 barrels heavy oil and gas cut mud and 45 gallons of brackish water. Attempted DST #2 from 12,059'-12070'. Packers failed and lost circulation. Regained circulation with lost circulation materials and cement. Ran Welox electric logs. Ran 12,059' of 5-1/2" OD 17# & 20# casing with float collar at 12,015' and guide shoe set at 12,059' and Halliburton DV tool at 11,854'. Cemented first stage with 75 sacks Inferno Slo-Set cement. Maximum pressure 500#. Circulated out excess cement. Opened DV tool with 1000# pressure. 8 hours WOC. Cemented second stage with 200 sacks Inferno Slo-Set cement with 1/8 Gel and 50-50 Pozmix. Pumped plug to 11,854'. Maximum pressure 500#. Closed DV tool with 1000# pressure. 24 hours WOC. Tested casing and cement with 1000# for 30 minutes - held OK. Drilled cement, DV tool and float collar 11,354' - 12,057'. Ran Welox Gamma-Ray, Neutron, cement and collar locator logs. Spotted 500 gallons Cardinal H3C acid in casing. Perforated 5-1/2" OD casing 12,017' - 12,036' with 4 jet shots per foot. Treated thru perforations with 500 gallons Cardinal 7-1/2% break down acid. Pumped 10 barrels into formation. Maximum pump pressure 2000#. 17-1/2 hours swabbed 44 barrels load oil, 12 barrels acid water, 163 barrels new oil. Treated perforation with 1000 gallons Cardinal XIST acid. Maximum pressure 3100#. Swabbed to flowing. Opened to tanks. NMOC Potential test: 12 hours, flowed 267-1/2 barrels oil, 1 1/4" choke, Gravity 42.4 Deg. at 60 Deg., GOR 54 CF/B. Rate for 24 hours 535 barrels oil.

ORIGINAL ARTICLES

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