Stephenson No. 1 Attachment to C-105

St. George Area W/c '64

K-2-3-32, Curry County, New Mexico

DST #1 - 3115'-3300' (185' San Andres)
Tool open 1 1/2 hours thru 5/8" BC, 1/4" TC and 3 1/2" D.P. Opened with weak blow and died in one hour. No gas to surface. Recovered 360' (2.7 bbl.) DM + 480' (2.4 bbl.) water cut mud + 120' (0.6 bbl.) salt water. Recovered black sulphur water 90,000 ppm Cl^-. Pit mud 76,000 ppm Cl^-. 60 minutes initial shut in BHP 1240 psi. Flowing BHP 174-538 psi. 120 minutes final shut in BHP 1181 psi. HMP 1606 psi. Conclusive test (Cook).

DST #2 - 6508'-6546' (38' Penn.)
Tool open 2 hours, 40 minutes thru 5/8" BC + 1/4" TC and 3 1/2" D.P. Opened with weak blow which decreased to very weak blow in two hours. No gas to surface.
Recovered 2700' (20.1 bbl.) fluid being: 360' (2.7 bbls.) M + 360' (2.7 bbls.) mud cut salt water + 1440' (10.7 bbls.) sulphur water with skim of oil (est. 1% oil) + 540' (4 bbls.) salt water. Recovered water 90,000 ppm Cl^-. Pit mud 178,000 ppm Cl^-. 120 minutes initial shut in BHP 1953 psi. Flowing BHP 274-1301 psi. 180 minutes final shut in BHP 1922 psi. HMP 3420 psi. BHT 132°. Conclusive test (Cook).

DST #3 - 6788'-6806' (18' Penn.) Straddle test.
Tool open 2 hours, 20 minutes thru 5/8" BC, 1/4" TC and 3 1/2" D.P. with good blow decreasing to very weak in 30 minutes. No gas to surface. Recovered 60' mud with no shows. Initial shut in pressure failed. FP 45-75 psi. 120 minutes final shut in BHP 350 psi. HMD 3578 psi. Conclusive test (Cook).

DST #4 - 6488'-6509' (21' Penn.) Straddle test.
Tool open 4 hours, 10 minutes thru 5/8" BC, 1/4" TC, 3 1/2" D.P. with weak blow continued throughout. No gas to surface. Recovered 780' (5.5 bbls.) mud cut sulphur water and 540' (3.1 bbls.) sulphur water with trace of oil. 30 minutes initial shut in BHP 594 psi. Flowing BHP 46-655 psi. HMP 3420 psi. Recovered sulphur water titrated 75,000 ppm Cl^-. Pit mud titrated 100,000 ppm Cl^-. Conclusive test (Cook).

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