

PREVIOUS WORKOVERS

JUN 18 1981

Skelly Unit #71

O. C. D.

ARTESIA, OFFICE

Located: 1980' FEL and 1980' FSL, Section 23, T17S, R31E, Eddy County, New Mexico. Elevation is 3868' from RF.

1. Started drilling June 14, 1947 and completed drilling August 1, 1947. Drilled with cable tool from surface to 3872'. Drilled to 751' and set 8 5/8" 8rd, H-40, "A" cond., casing @ 751' with 95 sacks of cement. Drilled to 3202' and set 7" OD, 8rd, "A" cond., H-40, casing @ 3202' with 150 sacks of cement. Drilled to a total depth of 3842' and plugged back as follows: Rock, 3872-3850; Lead wool - 350#, 3860-3855; Rock - 24 sacks cement, 3855-3225; Lead wool - 500#, 3225-3218 and cement 25 sacks, 3218-3075. Using a collar-buster, broke the 7" OD casing @ 1900', 1600', and 1400', but did not free @ either point. Broke the 7" casing next @ 1282' and pulled 1292' of 7" OD casing. After pulling 7" casing, plugged back as follows: Heavy mud-laden fluid, 3075'-800' and cement 45 sacks, 800'-660'. With the collar-buster, broke the 8 5/8" OD casing @ 640', 500', and 300', but could not free. Casing broke @ 206' and pulled 206' of 8 5/8" casing. Then plugged back as follows: Rock-750# lead wool 660-206' and cement 25 sacks, 206' - top. Cemented a piece of 4 1/2" OD line pipe in hole, with 4' extending above surface as marker. Well plugged and abandoned August 3, 1947, in accordance with the rules and regulations of the U. S. Department of the Interior, Geological Survey.
2. Moved in and rigged up workover rig September 19, 1967. Picked up drill pipe and bit. Drilled out cement to 206', rock and lead wool 206'-680'. Drilled cement 680'-800', circulated out mud to 1997', and pulled out of hole. Ran 6 1/4" bit, circulated out mud from inside 7" casing from 1997'-3075'. Started drilling cement @ 3075'. Drilled cement and cleaned out hole from 3124-3867'. Circulated hole, pulled drill pipe and bit. Ran 121 joints (3858' LTM) of 4 1/2" OD, 10.5#, 8rd, SS J-55, R-2, "A" cond. casing with ST&C, and set @ 3864'. Halliburton "DV" tool was @ 809' and a cement basket was @ 840'. Pumped 500 gals. of mud slush ahead of cement. Cemented first stage with 225 sacks of Incor-Poz mix cement with 2% gel and 8 lbs. salt per sack. Opened "DV" tool and cemented 2nd stage with 300 sacks of Incor-Poz mix cement with 2% gel, 2% Calcium Chloride, and 8# of salt per sack (Halliburton). Cement was circulated to surface. Ran tubing and bit and drilled "DV" tool @ 809'. Drilled cement inside 4 1/2" casing to 3852'. Tested casing to 1000 psi with no pressure loss. Ran Lane Wells Gamma Ray Neutron Log to 3844'. Lane Wells perforated 4 1/2" OD casing with one shot per foot @ the following depths: 3243, 3257, 3262, 3282, 3304, 3344, 3363, 3378, 3387, 3402, 3409, 3425, 3443, 3455, 3462, 3498, 3510, 3520, 3530, 3540, 3562, 3573, 3581, 3587, 3616, 3641, 3657, 3727, 3735, 3746, 3757, 3781, 3815, and 3830, a total of 34' and 34 shots. Ran 2 3/8" OD tubing with Baker Model "R" packer to bottom. Spotted 7 barrels of acid over perforations and set packer @ 3125'. Dowell treated down tubing into 4 1/2" OD casing perforations 3243-3830' with 2,500 gallons of regular 15% acid and 68 ball sealers. Maximum treating pressure was 4,500 psi, minimum treating pressure was 3600 psi and average injection rate was 5.5 bbls. per minute. Pulled tubing and packer. Dowell treated down 4 1/2" OD casing perforations 3243-3830' with 30,000 gallons of water and 30,000# of 20/40 mesh sand and 24 ball sealers. Maximum pressure