

FORMATION RECORD-Continued

FROM-	TO-	TOTAL FEET	FORMATION
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

Shell Henshaw Deep Unit # 2 was spudded 1-2-61. Drilled 17 1/2" hole w/cable tools to 505'. Cemented 13 3/8" casing @ 492' w/350 sx. Drilled ahead w/rotary tools. 11" hole to 3100'. Ran GR/N & I-ES surveys. Cemented 8 5/8" casing @ 3098' w/975 sx. DST # 1: 8740' - 8892' (152' Pennsylvania). Tool open 3 hours thru 5/8" SC, 1 1/4" & 1/2" IC & 4" DP. GCS 5 minutes. MTS 28 minutes. Oil & water to surface 5 1/2 minutes. In 1 1/2 hours flowed at rate of 18 BF/hr. thru 1 1/4" IC. RSP 830 psi. GOR 2100. In 15 minutes flowed at rate of 48 BF/hr. thru 1 1/2" IC. RSP 520 psi. Recovered total 40 BO + 32 BW. Reversed out estimated 11 BO + 9 BW. Recovered 150' (0.4 bbl.) GCSW below circulating sub. Estimated total recovery 51 BO + 41 BW. Oil gravity 40.5 deg. API. 60 minutes ISIBHP 3340 psi. FBHP 1540 psi - 2700 psi. 60 minutes PSIBHP 3280 psi. MMH 4200 psi. Maximum BHT 154 deg. F. Recovered water 46,000 ppm Cl-. P4t mud 1200 ppm Cl-. Conclusive Test. (Cook) DST # 2: 9023' - 9067' (44' Pennsylvania). Tool open 2 hours thru 5/8" SC, 1 1/2" IC, 1 1/4" DP. GCS 4 1/2 minutes. ISIBHP 1920 psi. FBHP 120 - 220 psi. 80 minutes PSIBHP 980 psi. BP 4200 psi. Maximum BHT 177 deg. F. Conclusive Test. (Cook) Drilled to 10,000'. Ran GR/N, I-ES & MI surveys to 10,000'. Cemented 5 1/2" casing @ 9750' w/475 sx. PRTD 9732'. Perforated 5 1/2" casing 9124' - 9132' (8') w/2-1/2" jet shots per foot. Hung 2" tubing @ 9136'. Set production packer @ 9075'. Tubing open ended with collar stop at 9069'. Treated w/500 gallons 15% HCA.

On OPT flowed 263 BOPD + 3 MWPD (based on 181 BO + 2 BW in 16.5 hrs.) thru 16/64" choke. RSP 475 psi. Gravity 42 deg. API. Official completion date April 9, 1961.