

FORMATION RECORD—Continued

[illegible]

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 bailing.

ORA HALL FEDERAL "14" #1 - SW 1/4 NW 1/4, Sec. 14, T-25S, R-32E, Lea County, New Mexico
Federal Lease LC 071986 B

11/24/60 - Well spudded 10:00 A.M.
11/25/60 - T.D. 364' - Ran 354' 8 5/8" 21#, J-55 csg. Cemented with 275 sks cement, 2% gel - Cement circulated - P.D. 8:30 A.M.
11/26/60 - Tested water shut off 1 hour with 1000# pump pressure - Tested O.K.
12/3/60 - Core #1 - 4750-73, Rec. 231

12/5/60 - core #3 4792-4843, Rec. 51
 4792-97 Very shaly sand
 97-4802 Black shale
 -08 Very shaly sand
 -21.5 Shaly grey sand
 -22 Black shale
 -28 Fine grey sand, scattered shale partings, slight to fair oil odor, pale white fluor.
 -34.5 Slightly laminated sand
 -40 Fine grey sand, slight to fair oil odor @ 4835.5-37
 -42 Shaly sand
 -43 Black shale

12/4/60 - core #2 4773-92, Rec. 19
 I.R.P. 40#, R.R.P. 50#
 I.S.I.P. 350#/30 min., R.S.I.P. 410#/30 min.
 Recovered 290' gas and 110' very slightly oil cut mud
 Open 1 hour, fair to weak blow,
 D.S.T. #1 4753 - 73, 73' Black shale
 -72.8 Shaly grey sand, bleeding oil 4762.8-67 and 4768-72.8
 -73 Black shale
 -74.5 Fine grey sand, good oil odor & fluorescence
 -79.5 Shaly sand
 -89.5 Fine grey sand, good oil odor & fluorescence
 -92 Very shaly sand
 -92.5 D.S.T. #2 4774-92 - open 1 hr, fair to weak blow, rec. 600' gas and 50' muddy salt water (brine) with a very slight oil cut
 4792-4843, Rec. 51
 4792-97 Very shaly sand
 97-4802 Black shale
 -08 Very shaly sand
 -21.5 Shaly grey sand
 -22 Black shale
 -28 Fine grey sand, scattered shale partings, slight to fair oil odor, pale white fluor.
 -34.5 Slightly laminated sand
 -40 Fine grey sand, slight to fair oil odor @ 4835.5-37
 -42 Shaly sand
 -43 Black shale