

CONDENSED DRILLER'S LOG

1. Got cement returns on conductor, but caving under substructure required the cellar grouting.
2. Surface hole was drilled below 416' without returns with water level standing at 85-90'. No cavities were encountered.
3. Total depth of surface hole was 1790'. This complied with the Alachua County county provision to extend the surface casing 50' into the "cedar keys anhydrite" formation, which was encountered at 1736'.
4. Log of the surface hole indicated the following geological tops relative to the Floridian Aquifer:

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| Oldsmar | 1108' |
| Lake City | 646' |
| Avon Park | 412' |
| Ocala | 176' |

5. 9-5/8" casing was cemented in four stages as follows:
Stage No. 1 (Around shoe at 1787') 55 sx of class "H" with 40% Diacel "D" and 0.25 lb/sk Flocele followed by 170 sx class "H" with 2% CaCl₂ and 0.25 lb/sk nylon fiber. Bumped plug with 1000 psi WOL 11:55 p.m. March 9, 1972.

Stage No. 2 (Thru DV tool at 1153' to assure separation between the Oldsmar and Lake City formations.) 70 sx Diacel "D" mix as above followed by 60 sx class "H" mix as above. Closed tool with 1500 psi. WOC 12:55 a.m. March 10, 1972.

Stage No. 3 (Thru DV tool at 649' to cement top of Lake City formation.) 35 sx Diacel "D" mix as above followed by 35 sx class "H" as above. Closed tool with 1500 psi. WOC 8:35 a.m. March 10, 1972.

Stage No. 4 (Thru DV tool at 400½' to cement top of Avon Park formation.) Same as Stage No. 3. WOC 1:10 p.m. March 10, 1972.

Cemented 13-3/8" x 9-5/8" annulus from 160' to surface thru 1" tubing with 235 sx class "H" in two stages.

6. DST No. 1 (1793-1800') was run to verify that surface casing was set into waters greater than 2500 ppm chloride content. Tool open 1-3/4 hr. only pressures obtained were initial hydrostatic 749 psi. Final flowing pressure 679 psi. Chlorides were 485 ppm and sulfate ion was 2708 ppm.
7. DST No. 2 (2190-2271') No water cushion, 5/8 B.H.C. I.F. 20 min., I.S.I. 20 min., F.F. 20 min., F.S.I. 20 min. Rec. 2.5 bbls rat hole mud and 5 bbls. formation saltwater with 18,500 ppm chlorides. Pressures: I.F. - 92 psi; FF - 334 psi; ISI-817 psi and 8669 ppm sulfate. I.F. -334 psi; FF - 472 psi; FSI-794 psi
 Initial & Final Hydrostatic - 1070 psi
8. Based on results of DST No. 2, the 7-5/8" liner was run to extend the surface casing into chlorides as required. Cement returns were obtained around the liner top.

9. **Lithologic Description**

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| 0-175' | Sandstone - fine to coarse, friable |
| 175-416' | Limestone - sandy near top, dense, gray, fossiliferous |
| 416-1790' | Drilled without returns - no samples |
| 1,790-2,610' | Limestone - chalky, dolomitic limestone and dolomite with streaks of white anhydrite, fossiliferous |
| 2,610-2,861' (TD) | Sandstone - mostly fine grain, gray, fossiliferous with some gray shale. |