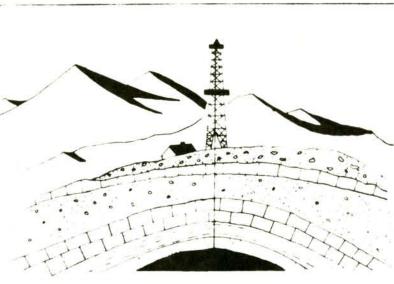
Northunest Teological Service



LOG NO. 181 COMPANY WILLISTON PIONEER OIL CO. LEASE AND NO. * SHEPARD-DEARDORF STATE OR PROVINCE MONTANA COUNTY SHERIDAN AREA LOCATION C NW SE SEC 13 T 35 N. R. 55 E. GRND. ELEV 2394' K.B. 2403' TOTAL DEPTH 8720' SPUDDED 11-18-52 COMPLETED 2-29-53 REMARKS: Photo Enlargement X 10. (See Note in Descriptions.) DATE JUNE, 1963 GEOLOGIC SECTION MISSISSIPPIAN: Ratcliffe Zone. Depth NO LOGS RUN REMARKS NO LOGS RUN PHOTO LOG Testing 7050 Anhy, dns, argil, sl slty & sdy. Ls, peld, frgtl, calcisphaeres, anhytc. 7060 Ls, mud, sl peld, tr fos frgs, ostr?, anhytc, sl argil; tr ls, c-l, slty. 7070 Ls, dns, fn fos frgs, spcls, tr foram, argil, tr silt grs, anhytc. Ls, mud, sl peld, s/c-l, sl slty, anhyte, f/v fn fos frgs. Ls,c-ctc, unsorted, fos frgs, crin, bryon, calcisphaeres, alg, Garwoodia?, reworked lime Ls, mud, faint peld, tr fos frgs, ostr, anhytc, tr ools. 7090 Ls, mud, fn peld, tr fos frgs, ostr, anhytc, tr c-c, calcisphaeres. Note-Core 2 7080-7138 3 core samples only-one for 7080-85 and 2 both marked 7085-7138. 7100 Drill samples cover interval and are assumed to be reaming samples. Drill samples used for interval 7085-7138. Ls, fn peld, mud, s/alg, ostr, s/ xln clc, tr anhy, sl vug por. Ls, mud, f/piso & ools, ostr, strks ls, fnly foslf, argil, sl 7120 Ls, fnly foslf, reworked lime mud and piso, argil, sl silc, sl por. 71.30 NO SAMPLES 7140 Ls, fnly, foslf, crin, brach, argil, tr reworked lime mud, s/ls, mud, sl peld. Ls, fnly frgtl, reworked lime mud, fnly foslf, dolote loc, s/ls, mud, alg, peld, sl por. 7150 Ls, fnly frgtl, reworked lime mud, foslf, brach, crin, s/ls, fn peld, mud, calcisphaeres, sl por. Ls, chky, dolote, fnly foslf, argil, calcisphaeres, alg tubes, tr ls, mud, fn peld, alg frgs, 7160 fair por. Ls, fnly fos frgtl, brach, crin, cor, foram?, argil, tr silt grs, sl dolotc, tr por. Ls, chky, v dolotc, fnly foslf, lchd, sl silc, sl anhytc, fair 7170 Ls, fnly fos frgtl, crin, bryon, argil, sl doloto, tr silt grs. Ls, fnly fos frgtl, crin, brach, bryon, calcisphaeres, argil, sl slty, pyr. 7180 Ls, fos frgtl, bryon, foram, argil, pyr, silica vns, s/slst. Ls, fos frgtl, crin, brach, slty. 7190 Ls, fos frgtl, bryon, crin, c-ctc loc, argil, sl slty. 7200 Ls, foslf, bryon, brach, crin, tr foram, f/silt grs. Ls, fos frgtl, bryon, crin, brach, argil, sl slty. 7210 Ls, fos frgtl, crin, brach, argil, m/sh lams.