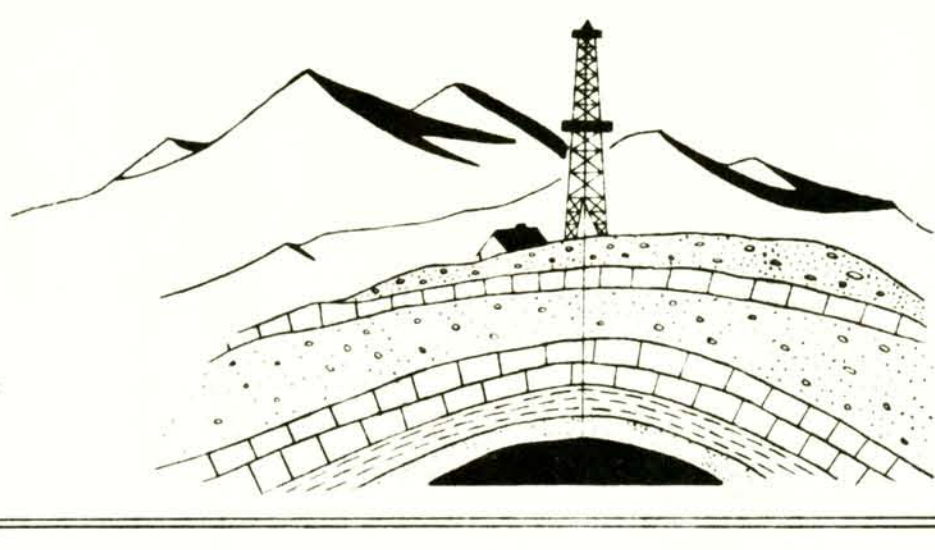


Northwest Geological Service



LOG NO. 142

COMPANY **SHELL OIL COMPANY** LEASE AND NO. **1 LITTLE BEAVER**

STATE OR PROVINCE **MONTANA** COUNTY **FALLON** AREA



LOCATION **C NE SW SEC. 13 T 4 N. R 61 E. GRND ELEV 3090'**

TOTAL DEPTH **8559'** SPUNDED **3-3-52** COMPLETED **6-13-52**

REMARKS: **L.P.P. 282 B.F.P.D. (253 B.O.), 10.6% cut, 30° A.P.I. (Ordovician,**

8313-23, 8337-55, 8474-8525). Photo Enlargement X 10.

GEOLOGIC SECTION **MISSISSIPPIAN: Charles, Mission Canyon, Lodgepole** DATE **NOV, 1961**

GAMMA RAY	DEPTH TESTING	PHOTO - LOG	NEUTRON	REMARKS
	6400			Dolo, dns, v argil, w/ gry strks; anhy incl.
	6500			Anhy, argil, dolotc, slty, w/ dolc anhytc. Anhy, acicular, f/ls lams. Ls, dns, anhy xls and vms, strk psedo-ool, psbl chara, ls at top.
	6600			Anhy, acicular, argil, w/ dolc, slty. Anhy, acicular, w/ strks ls. Ls, fnly foslf, ostr, spcls, strk lchd c-c, anhy xls. Ls, foslf, brach, cor, bryon, crin c-ctc, clc mat.
	6700			Ch, chalcedony, foslf; strks ls, dns and ool, por, vert stylo inclc. Ls, subchky, sec anhy & dolc, anhytc. Anhy, acicular, intel dolc.
	6800			Ls, chky to dns, foslf, crin, brach, spcls, dolotc, argil, sl por, ch ndls. Ls, dns, fos frgs, argil, silc; ch. Anhy, dns, argil, slty; strks dolc, slty, grdg to slst.
	6900			Ls, dns, argil, anhy xls; strks ls, fnly foslf, argil. Ls, dns and foslf as abv.
	7000			Ls, dns, sl foslf, forams, bryon, argil; strks ls, dns, argil, pyr. Ls, c-c, fos frgs, bryon, clc mat, tr anhy mat; strks ls, argil, dolotc.
	7100			Ls, dns, argil, anhytc, intel anhy tr pyrte ool, tr foram. Ls, argil, fos frgs, ostr; crin?, sl silc, anhytc. Ls, dns, fn fos frgs, anhy xls.
	7200			Anhy, dns, argil, dolotc, slty; strks ls, spcls. Dolo, subchky, argil, anhytc, tr fos frgs. Ls, chky, fn fos frgs, v dolotc, anhytc, argil, grdg to dolc, por, strks dolc, subchky.
	7300			Ls, chky, foslf, spcls, v dolotc, argil, anhytc, strks c-c, por. Ls, fnly foslf, spcls, crin, dolotc, argil, anhy inclc; tr sdv dolc, sl por.
	7400			Ls, fn foslf, spcls, crin, dolotc, argil, f/ anhy xls, psbl foram, sl por. Ls, fn fos frgs, spcls, brach, v dolotc, argil, sl por.
	7500			Ls, fn fos frgs, crin, bryon, spcls, dolotc, argil, sl por. Ls, fnly foslf, bryon, crin, argil, stylo. Ls, fos frgtl, c-ctc, brach, crin, echinoderms, clc mat, sl anhy mat, tr por. Ls, peld, algal frgs?, barwoodia, fn fos frgs, sl clc mat, fair por. Anhy, acicular, intel dolc and ls.
	7600			Ls, chky, fnly foslf, v dolotc, por; strks dolc, argil, slty, anhy inclc; tr ch. Ls, fn peld, fn fos frgs, ostr, sl c-ctc, anhytc, sl por. Ls, dns, anhy xls, fn fos frgs, ostr, anhy inclc; sl dolc, chky. Anhy, acicular to dns, argil.
	7700			Dolo, subchky, fn fos frgs, ostr, psedo-peld, anhy xls, fair por. Anhy, acicular to dns, sl dolotc.
	7800			Anhy, dns to acicular, argil, sl dolotc. Anhy, acicular, argil, dolotc.
	7900			Dolo, microgran, argil, f/ relic fos frgs, spcls, f/ anhy xls, sl por. Dolo, microgran, argil, tr spcls.
	8000			Ls, fnly foslf, brach, crin, spcls, dolotc, argil, grdg to dolc. Ls, fnly fos frgtl, brach, echinoderms, crin, argil, sl dolotc, anhy xls, sl por.
	8100			Ls, fnly foslf, spcls, echinoderms, dolotc, grdg to chky dolc, sl por, sec anhy xls. Ls, fnly foslf, spcls, echinoderms, crin, dolotc, argil, f/ anhy xls.
	8200			Ls, fnly foslf, bryon, spcls, echinoderms, argil, dolotc, f/ anhy xls, sl por. Ls, fnly foslf, argil, dolotc, tr por.
	8300			Ls, fnly foslf, argil, f/ anhy xls. Ls, fn fos frgs, argil.
	8400			Ls, fn fos frgs, argil, sl dolotc, tr anhy xls. Ls, fn fos frgs, argil, sl dolotc, tr anhy xls. Ls, foslf, argil, sl dolotc, anhy xls. Ls, foslf, argil, dns, m/ anhy xls.
	8500			Ls, dns, foslf loc, dolotc, anhy xls. Ls, fn fos frgs, sl oolte, dolotc, f/ anhy xls, sl por.
	8600			Dolo, gran, calc, fn fos frgs, sl c-ctc, sl por. Dolo, gran, calc, fn fos frgs, lchd, tr anhy xls, sl por.
	8700			Dolo, gran, calc, fn fos frgs, lchd, tr anhy xls, fair por. Ls, fos frgtl, crinal, bryon, v dolotc, grdg to dolc, fair por.
	8800			Dolo, subchky, argil, f/ relic fos frgs. Ls, fos frgtl, c-ctc, v dolotc, f/ anhy xls, sl por.
	8900			Dolo, subchky, argil, f/ relic fos frgs, f/ anhy xls. Dolo, fos frgtl, c-ctc, calc, pyr, f/ acicular anhy. Dolo, microxln, dns, argil, f/ anhy xls, pyr. Ls, c-c, f/ ools, fos frgs, dolotc loc. Dolo, microxln, relic fos frgs, stylo. Ls, c-c, oolte, fos frgs, dolotc loc.
	9000			Dolo, microxln, foslf, c-ctc, anhy xls. Ls, c-c, v dolotc, m/ anhy xls.
	9100			Dolo, microxln, argil, pyr, relic fos frgs. Dolo, as abv, w/ strk ls, c-c.
	9200			Dolo, microxln, fos frgs, calc, slty, argil, strks ls, dolotc, tr slst. Ls, foslf, c-ctc, v dolotc, w/ dolc, microgran, sl slty.
	9300			Ls, c-ctc, foslf, dolotc, w/ dolc; strks sh. Ls, c-ctc, fos frgs, argil, w/ dolc.
	9400			Ls, foslf, c-ctc, argil, dolotc, grdg to dolc. Ls, foslf, c-ctc, argil, dolotc, grdg to dolc.
	9500			Dolo, microxln, dns, argil, fn fos frgs. Ls, oolte, c-ctc, clc and anhy mat; intbd dolc, argil.
	9600			Ls, ool, c-ctc, fos frgs, clc mat, tr anhy; intbd dolc, argil.
	9700			Ls, ool, fos frgs, clc mat; intbd dolc, argil.
	9800			Ls, foslf, crin, brach, argil, slty, dolotc; intbd dolc, argil, s/ch. Ls, dns, fos frgs, f/ ools, argil, dolotc, anhy xls, ch.
	9900			Ls, foslf, crin, brach, silc, anhy xls, m/ch. Dolo, fos frgtl, crin, microxln, gran, silc, por.
	10000			Dolo, fos frgtl, c-ctc, microxln, gran, por; strks ls, foslf.
	10100			Dolo, as abv; strks ls, fn c-c, argil.
	10200			Dolo, as abv; strks ls, foslf, argil.
	10300			Ls, foslf, cor, crin, dns, argil, sl dolotc. Dolo, microxln, dns, argil, fn fos frgs, stylo. Dolo, microxln, dns, v argil.