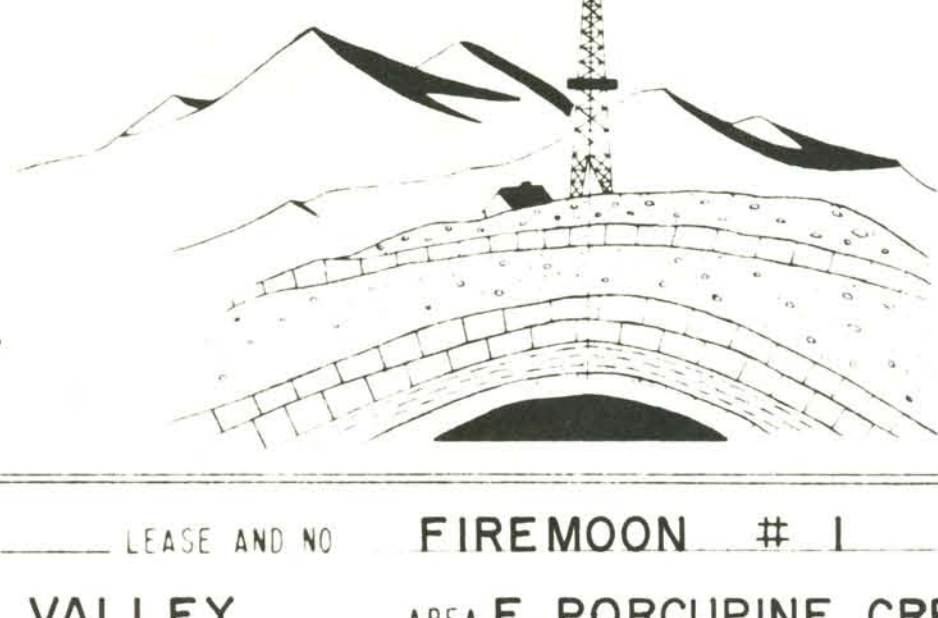


Northwest Geological Service



LOG NO 56

COMPANY **MURPHY CORPORATION** LEASE AND NO **FIREMOON # 1**
 STATE OR PROVINCE **MONTANA** COUNTY **VALLEY** AREA **E. PORCUPINE CREEK**
 LOCATION **C SE SE SEC 12 T 30N R 41E** GRND ELEV **2733' 2744'KB.**
 TOTAL DEPTH **8247'** SPUNDED **11-15-53** COMPLETED **3-11-54**
 REMARKS **Photo Enlargement X 10**

GEOLOGIC SECTION **MISSISSIPPIAN - Charles, Mission Canyon, Lodgepole** DATE **SEPT. 1959**

GAMMA RAY	DEPTH TESTING	PHOTO - LOG	NEUTRON	REMARKS
	1			Sh,dolote,w/strks anhy
	2			Dolo,dns to sl slty,anhytc, w/anhy incl
	3			Dolo,argil,w/incls clc xls; strks xln anhy Ls,dns,fos frgs,argil,w/clc incl,ostr,foram? Dolo,dns,fos frgs,strks anhy Ls,fnly xln,fos frgs,v por, s/lc,c-c,ch incl
	4			Ls,dns,fos frgs,incls anhy & silica,strks dolo,anhytc
	5			Anhy,dns,sl silc,argil;#5008-10 Strks dolo,dns,argil
	6			Anhy,dns,dolote;#5016-20 Intcl ls
	7			Anhy,dolote,argil,slty loc, strks slst
	8			Anhy,dns,intcl dolo
	9			Anhy,argil,dolote
	10			Ls,dns,w/anhy incl;#5068-70 Bnd silc-anhy incl
	11			Ls,fos frgtl,alg deb,w/anhy incl
	12			Anhy,dns,dolote
	13			Ls,fnly fosfl,styls,strks c-c Ls,fn fos frgs,w/lc,dns,anhy incl
	14			Dolo,ohky,anhy vns
	15			Anhy,argil,dolote,silica incl
	16			Anhy,dns
	17			Dolo,anhytc,argil
	18			Anhy,dolote,pyrtc
	19			Dolo,dns,anhytc,slty
	20			Anhy,dolote,silc loc
	21			Dolo,calc,anhytc,argil,slty
	22			Ls,fos frgtl,alg deb?,silc, argil
	23			Ls,slty,fn fos frgs,ostr; #522-2l, s/lc,c-c, fos frgs, forams,silica & anhy rpl
	24			Ls,c-l, fos frgs, argil, slty
	25			Ls,c-r, fos frgs, clc mat, bryon, crin, sl silc
	26			Ls, fos frgtl, anhytc, argil, bryon, crin, ostr, w/t/ch incl
	27			Ls, fos frgs, argil, pyrtc
	28			Ls, dns, fos frgs, v argil
	29			Ls, fos frgs, argil, silc, crin, bryon
	30			Ls, slty, argil, f/ fos frgs, bryon
	31			Ls, fos frgtl, argil, silc, bryon; #530-22 Strks ch, argil
	32			Ls, argil, fos frgtl, pyrtc, bryon
	33			Ls, argil, fos frgs, pyrtc
	34			Ls, dns, fn fos frgs, argil
	35			Ls, dns, fn fos frgs, argil
	36			Ls, slty, v argil
	37			Ls, slty, fnly pyrtc, s/ch, fos frgs, pyrtc
	38			Ls, fos frgs, argil
	39			Ls, dns, f/ fos frgs, pyrtc, s/ch w/ fos frgs
	40			Ls, dns, argil, pyrtc, fos frgs, w/ chalcodony incl
	41			Ls, dns, fos frgs, argil, pyrtc
	42			Ls, dns, fos frgs, argil, v silc loc
	43			Ls, fos frgtl, argil, sl silc, s/ch, fos frgtl
	44			Ls, dns, fos frgs, argil; #5512-1l Ls, c-c, fos frgs, sl silc, foram?
	45			Ls, crinal, bryon, forams, por
	46			Ls, fos frgs, argil, s/silica rpl
	47			Ls, fos frgs, argil
	48			Ls, c-c, fos frgs, crin, bryon, strks argil cont
	49			Ls, crinal, bryon, v por
	50			Ls, c-c, fos frgs, crin, stylo
	51			Ls, fos frgtl, crinal, sl silc, por
	52			Ls, crinal, por, strks ls, argil
	53			Ls, dns, fos frgs, argil; ch
	54			Ls, fos frgs, argil
	55			Ls, fos frgs, crinal, por
	56			Ls, fos frgtl, crinal, por
	57			Ls, fos frgtl, crinal, spks argil cont, por
	58			Ls, fos frgs, crin, bryon, argil, sl por
	59			Ls, fos frgs, argil
	60			Ls, fn fos frgs, argil
	61			Ls, fn fos frgs, argil
	62			Ls, c-l, fos frgs, argil
	63			Ls, fos frgs, argil, silc
	64			Ls, dns, fn fos frgs, argil, v silc
	65			Ls, dns, fn fos frgs, silc
	66			Ls, dns, fn fos frgs, silc
	67			Ls, slty, fos frgtl, glaucto, strks argil cont, crin, ostr
	68			Ls, argil, fos frgtl, silc, bryon
	69			Ls, dns, fos frgs; #5862-66 Ls, fos frgtl, crinal, bryon, argil
	70			Ls, dns, argil, fos frgs, stylo
	71			Ls, dns, argil, fos frgs, pyrtc
	72			Ls, dns, fos frgs, argil, pyrtc
	73			Ls, dns, fos frgs, argil, pyrtc
	74			Ls, dns, fos frgs, argil spks
	75			Ls, dns, fos frgs, s/vug por
	76			Ls, dns, fos frgs, argil spks, pyrtc
	77			Ls, dns, fos frgs, argil, pyrtc
	78			Ls, dns, fos frgs, argil
	79			Ls, fos frgs, argil, pyrtc, s/silica rpl
	80			Ls, dns, fos frgs, v pyrtc, s/silica rpl, ostr
	81			Ls, dns, fos frgs, pyrtc, sl argil, s/silica rpl
	82			Ls, dns to xln, fos frgs, strgr slty ls
	83			Ls, dns to fos frgtl, argil, s/silica rpl
	84			Ls, dns, fos frgs, pyrtc, s/silica rpl, strgr ls w/bk argil spks
	85			Ls, dns, argil, pyr
	86			Ls, dns, argil, pyr
	87			Ls, dns, argil, pyrtc, s/ fos frgs, p-pt por
	88			Ls, dns, fos frgs, pyrtc, silc
	89			Ls, dns, argil, sl pyrtc
	90			Ls, dns, argil
	91			Ls, dns, argil, pyr
	92			Ls, dns, argil, fn spcls, sl pyrtc
	93			Ls, dns, argil, pyrtc
	94			Ls, dns, argil
	95			Ls, dns, f/ fn fos frgs, sl argil
	96			Ls, dns, fn fos frgs, sl pyrtc
	97			Ls, dns to xln, argil, glaucto, f/ fos frgs
	98			Sh, slty