

APPENDIX 1: Homestake Well Driller's Log.

Depth Ft (From)	Depth Ft (To)	Description of Materials Drilled Other Characteristics (Grain size, hardness, etc.)	Remarks
0	85	soft	due to artesian flow, no cutting samples taken
85	105	medium soft	
105	150	medium hard	
150	160	very soft	
160	170	medium	
170	175	medium hard	
175	195	medium	
195	200	very hard	hole seems to drift off at this level
200	230	very soft sticky shale	shale builds up on bit
230	272	medium hard, small streaks of shale	
272	280	very soft	
280	292	medium hard	
292	300	very soft	
300	309	medium soft	
309	325	hard	
325	350	very hard	
350	355	medium hard	
355	360	very hard	
360	365	hard	
365	375	soft	
375	380	hard	
380	384	medium hard	
384	389	hard, very abrasive	
389	395	medium	
395	398	soft	
398	401	medium hard	
401	403	hard	
403	406	medium	
406	410	medium soft	
410	418	soft	
418	420	medium hard	
420	425	hard	
425	428	soft	
428	432	medium soft	
432	435	soft	
435	440	medium hard	
440	445	hard	
445	450	medium soft	
450	460	soft	
460	465	medium	

465	470	soft	
470	480	medium	
480	485	soft	
485	490	medium	top to 490', cloudy water
490	495	very hard	hole flowed clear water 490' to bottom
495	520	medium soft	
520	530	soft	
530	560	medium soft	
560	565	hard	
565	570	soft	
570	580	medium soft	hole caved – shale came out on bit
580	585	soft	580' to
585	595	medium soft	595'
595	603	very hard	
