B. J. Harkrider #1

FORMATION RECORD

From	To	Thickness in Feet	Formation
0	365	365	Red Bed & shells
365	465	100	Red Bed
465	1967	1502	Red Bed & shells
1967	2045	78	Anhydrite & Red bed
2045	2259	214	Sand & Red bed
2259	2648	389	Red Bed
2648	2800	152	Anhydrite & Red Bed
2800	3119	319	Red Bed & Salt
3119	3271	152	Anhydrite & Salt
3271	3571	300	Anhydrite
3571	3693	122	Anhydrite & gyp
3693	3951	258	Anhydrite
3951	4183	232	Anhydrite & gyp
4183	4242	59	Anhydrite & shells
4242	4390	148	Anhydrite & gyp
4390	4430	40	Anhydrite
4430	4533	103	Anhydrite & gyp
4533	4690	157	Anhydrite & Lime
4690	4753	63	Lime & Dolomite
4753	4876	123	Lime & Anhydrite
4876	7530	2654	Lime
7530	7572	42	Lime & sand
7572	8416	844	Lime
8416	9277	861	Lime & shale
9277	10010	733	Lime
10010	10033	23	Lime & chert
10033	10137	104	Lime
10137	10170	33	Lime & shale
10170	10374	204	Lime
10374	10448	74	Lime & shale
10448	10467	19	Lime
10467	10516	49	Lime & shale
10516	10628	112	Lime
10628	10680	52	Lime & shale
10680	10720	40	Lime
10720	10735	15	Lime & shale
10735	10778	43	Lime
10778	10798	20	Sandy Lime
10798	11027	229	Lime
11027	11518	491	Lime & shale
11518	11520	2	Lime
11520	11536	16	Core #1
11536	11565	29	Core #2
11565	11594	29	Core #3
11594	11627	33	Core #4
11627	11753	126	Lime
11753	11798	45	Lime & sand
11798	11866	68	Lime
11866	11900	34	Lime & shale
11900	11934	34	Lime
11934	11958	24	Lime & shale
11958	11966	8	Lime & sand
11966	11990	24	Lime
11990	12052	62	Lime & shale
12052	12070	18	Shale
12070	12116	46	Lime & shale
12116	12123	7	Lime
12123	12380	257	Lime & shale
12380	12384	4	Lime
12384	12577	193	Lime & chert
12577	12585	8	Lime
12585	12612	27	Lime & shale
12612	12697	85	Lime
12697	12945	248	Lime & shale
12945	12970	25	Lime
12970	12988	18	Lime & chert
12988	13183	195	Lime
13183	13199	16	Lime & chert
13199	13216	17	Lime
13216	13357	141	Lime & chert
13357	13415	58	Lime & shale
13415	13435	20	Lime
13435	13581	146	Lime & shale
13581	13604	23	Lime
13604	13618	14	Lime & shale
13618	13735	117	Shale
13735	13785	50	Core #5
13785	13820	35	Core #6

CORE RECORD

No.	From	To	Rec.	Description
1	11520	11536	15'	Limestone, dark brown dense fractures, no shows. Core bbl. jammed.
2	11536	11565	29'	Limestone, dark brown shaley, no shows.
3	11565	11594	28'	Limestone, dark brown shaley, no shows.
4	11594	11627	33'	Limestone, dark brown dense w/occ thin shale stringers, no shows.
5	13735	13785	50'	Shale, lime & dolomite. 13735-13741½ 6½' brown shale, no show. 13741½-13765 23½' limestone fine to medium crystalline gray with occasional small vuggs and common gray shale partings, no show. 13765-13773 8' dolomite, medium crystalline gray, 10% vuggy porosity, good stain & odor. 13773-13778 5' dolomite, fine to medium crystalline gray brown w/small vuggs, good stain. 13778-13785 7' dolomite, medium crystalline gray w/10-15% vuggy porosity, fair to good stain & odor.
6	13785	13820	35'	Dolomite. 13785-13788 3' gray & brown dolomite w/trace pin point & pin head porosity, good stain & odor. 13788-13790 2' gray & brown dolomite 5% small vuggy porosity, good stain & odor. 13790-13793 3' brown dolomite, trace pin point & pin head porosity, poor stain. 13793-13811 18' gray & brown dolomite, 10-15% small vuggy porosity, good stain & odor. 13811-13820 9' gray & brown dolomite, granular dense w/occasional gray shale partings, trace pin point & pin head porosity, poor stain.

B. A. Bankrider #1 | FORMATION RECORD

From	To	Thickness in Feet	Formation
0	365	365	Red bed & shells
365	466	101	Red bed
466	[illegible]	[illegible]	Red bed & shells
[illegible]	[illegible]	[illegible]	Anhydrite & Red bed
2049	[illegible]	215	Sand & Red bed
[illegible]	2548	[illegible]	Red bed
2548	2700	152	Anhydrite & Red bed
2700	3019	319	Red bed & Salt
3019	3271	252	Anhydrite & Salt
3271	3371	100	Anhydrite
3371	[illegible]	[illegible]	Anhydrite & gyp
3692	[illegible]	258	Anhydrite
[illegible]	[illegible]	[illegible]	Anhydrite & gyp
[illegible]	[illegible]	39	Anhydrite & shale
[illegible]	[illegible]	[illegible]	Anhydrite & gyp
4390	[illegible]	[illegible]	Anhydrite
4430	[illegible]	[illegible]	Anhydrite & gyp
[illegible]	[illegible]	[illegible]	Anhydrite & Lime
[illegible]	[illegible]	[illegible]	Lime & Dolomite
[illegible]	[illegible]	[illegible]	Lime & Anhydrite
[illegible]	7530	2836	Lime
7530	7574	44	Lime & sand
[illegible]	[illegible]	344	Lime
[illegible]	[illegible]	361	Lime & shale
[illegible]	[illegible]	[illegible]	Lime
10010	[illegible]	[illegible]	Lime & chert
[illegible]	[illegible]	[illegible]	Lime
10137	[illegible]	[illegible]	Lime & shale
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime & shale
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime & shale
[illegible]	[illegible]	[illegible]	Lime
[illegible]	[illegible]	[illegible]	Lime & shale
[illegible]	10780	40	Lime
[illegible]	[illegible]	25	Lime & shale
[illegible]	10778	[illegible]	Lime
[illegible]	10798	20	Sandy lime
[illegible]	11027	[illegible]	Lime

From	To	Thickness in Feet	Formation
11027	11518	491	Lime & shale
11518	11520	2	Lime
11520	11536	16	Core #1
11536	11565	29	Core #2
11565	11594	29	Core #3
11594	11627	33	Core #4
11627	11753	126	Lime
11753	11798	45	Lime & shale
11798	11876	78	Lime
11876	11910	34	Lime & shale
11910	11934	24	Lime
11934	11958	24	Lime & shale
11958	11966	8	Lime & shale
11966	11990	24	Lime
11990	12052	62	Lime & shale
12052	12070	18	Shale
12070	12116	46	Lime & shale
12116	12123	7	Lime
12123	12380	257	Lime & shale
12380	12384	4	Lime
12384	12577	193	Lime & chert
12577	12595	18	Lime
12595	12622	27	Lime & shale
12622	12697	75	Lime
12697	12945	248	Lime & shale
12945	12970	25	Lime
12970	12988	18	Lime & chert
12988	13183	195	Lime
13183	13199	16	Lime & chert
13199	13216	17	Lime
13216	13357	141	Lime & chert
13357	13415	58	Lime & shale
13415	13435	20	Lime
13435	13581	146	Lime & shale
13581	13604	23	Lime
13604	13618	14	Lime & shale
13618	13735	117	Shale
13735	13785	50	Core #5
13785	13820	35	Core #6

CORES

No.	From	To	Rec.	Description
1	11520	11536	16'	Limestone, dark brown dense fractures, no shows. Core wet. [illegible].
2	11536	11565	29'	Limestone, dark brown & clay, no shows.
3	11565	11594	29'	Limestone, dark brown shaley, no shows.
4	11594	11627	33'	Limestone, dark brown dense w/con thin shale stringers, no shows.
5	13735	13785	50'	Shale, lime & dolomite. 13735-13741½ 6½' brown shale, no show. 13741½-13765 23½' limestone fine to medium crystalline grey with occasional small vugs and common grey shale partings, no show. 13765-13773 8' dolomite, medium crystalline gray, 10% vuggy porosity, good stain & odor. 13773-13778 5' dolomite, fine to medium crystalline grey brown w/small vugs, good stain. 13778-13785 7' dolomite, medium crystalline gray w/10-15% vuggy porosity, fair to good stain & odor.
6	13785	13820	35'	Dolomite. 13785-13788 3' grey & brown dolomite w/some pin point & pin head porosity, good stain & odor. 13788-13790 2' grey & brown dolomite w/5% small vuggy porosity, good stain & odor. 13790-13793 3' brown dolomite, dense pin point & pin head porosity, poor stain. 13793-13811 18' grey & brown dolomite, 10-15% small vuggy porosity, good stain & odor. 13811-13820 9' grey & brown dolomite, granular dense w/occasional grey shale partings, dense pin point & pin head porosity, poor stain.