

31-325-5W

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RECORD OF SAMPLE DETERMINATIONS

Himere #1  
 NE NE NE, Section 31-32-5W  
 Harper County, Kansas

Elevation 1342 DF

<u>From</u>	<u>To</u>	<u>Formation</u>
2500	30	Sh. - gray
30	42	Ls. - buff dense
42	60	Ls. & sh. - interbedded, mostly shale
60	70	Ls. - buff, fine grained to dense
70	2600	Ls. & sh. - interbedded
2600	06	Ls. - buff to brown, fossiliferous
06	50	Sh. - gray, gray green, some red; ls & ss stringers
50	54	Ls. - dense
54	62	Ss. - tight gray
62	72	Ls. - buff dense & gray dense
72	90	Sh. - red & gray
TOPEKA		
2690	2706	Ls. - gray dense & gray fossilif.
2706	16	Ls. - light buff porous, fine oolite casts & solution porosity around fossils, etc. Cir. 1/2 hr. @2714
16	30	Ls. - light buff, fine grained to med. crystalline
30	62	Ls. - buff & gray
62	86	Sh. - gray, gray green some red
86	2802	Ls. - gray dense
2802	08	Sh. - gray & Black (06-08 black)
08	20	Ls. - buff
20	24	Sh. - black
24	64	Ls. - light buff to white, dense and chalky interbedded
64	90	Sh. - gray, gray green, some red & black
2890	2902	Ls. - buff to gray, granular
2902	24	Sh. - gray platy, some red & black
24	40	Ls. & sh. - interbedded
40	3020	Sh. - various grays, some red
3020	57	Sh. - dark gray, platy
OREAD		
57	60	Ls. - brown dense, fossilif
60	67	Sh. - dark gray & black
67	71	Ls. - dirty buff & light brown, dense
71	82	Sh. - dark gray, some black
82	96	Ls. & sh. - interbedded, brown ls & dark gray, black sh.
96	3112	Sh. - gray green, flaky, waxy
3112	22	Ls. - light buff, soft, some porosity, W.S.
22	26	Sh. - gray & black platy
26	36	Ls. - buff, interbedded dense & porous
36	52	Sh. & ss. - interbedded sh. & gray, tight limy, ss
52	70	Ls. & sh. - interbedded buff ls & dark gray to black sh.
70	94	Ls. - buff, interbedded fossiliferous & chalky.

OWLL

<u>From</u>	<u>To</u>	<u>Formation</u>
<b>DOUGLAS</b>		
3194	3233	Sh. & ss. - interbedded gray sh. & gray fine ss.
33	80	Sh. dark gray platy, serulitic <i>Cerastis</i>
80	3315	Sh. - dark as above, traces of red, thin ss stringers
3315	50	Sh. - gray, gray green, good bit red
50	80	Sh. - gray, flaky, <del>mod</del>
80	3400	Sh. - gray platy
3400	10	Sh. - gray flaky wdy
10	31	Sh. - dark gray, platy
<b>TOP LABSING</b>		
3431	37	La. - buff & light brown, dense, some brown dense oolitic
37	45	Sh. - gray trace ss.
45	50	La. - buff
50	77	Sh. - dark gray, platy
<b>STALHAKER SS</b>		
3477	3535	SS. - gray, mod. grained. Interbedded tight limy and clean porous
3535	3640	Sh. - dark gray, platy
3640	77	Sh. - dark gray, traces of brown very dense concretionary La.
77	78	La. - buff - brown, dense, some oolitic
78	92	Sh. - dark gray, flaky - platy
92	96	Balck shale & coal
96	3702	Sh. - dark gray platy
<b>BROWN LINE</b>		
3702	10	La. - buff, gray & light brown, very dense, oolitic & fossilif strk.
3710	19	Sh. - dark gray & balck
<b>KANSAS CITY</b>		
3719	24	La. - buff porous. 20-23 very oolitic DST 3710-26 0 1/2 hr. strong blow throughout Rec. 200' very gassy oil cut mud 30" SIP 1080 Hydrostatic head 2025, F.P.O.
3724	48	La. - buff generally very dense, occasional chalky streak, cherty; white chert
48	73	La. - buff to white, chalky with dense stringers, streaked porosity No show; Circ. 1 1/3 hrs. 03765
3773	79	La. - buff, very dense, slightly cherty
79	84	La. - buff to white, soft, chalky
84	3804	La. - buff dense, thin chalky streaks, trace buff chert
3804	09	La. - buff chalky
3809	20	La. - buff dense, very cherty; buff mottled chert.
20	33	La. - Light brown very dense, cherty.

<u>From</u>	<u>To</u>	<u>Formation</u>
3853	40	Ls. Buff, very oolitic, large solites, very little porosity
40	65	Ls. - buff to light brown, very dense, little interbedded shale
65	72	Sh. - dark gray & black, trace red
72	95	Ls. - dark brown, very dense
95	98	Ls. - buff dense & chalky, interbedded
98	3913	Ls. - buff, brown & gray very dense, black sh. 3906-07
3913	18	Ls. - brown, lithographic
18	30	Ls. & sh. - interbedded buff Ls & gray sh.
30	52	Ls. - buff & brown very dense

BASE KANSAS CITY - TOP MAJMATON

52	56	Sh. - black - Circ. 3/4 Hr. @3957
56	79	Sh. - dark gray & black
79	91	Ls. - buff dense, shale break in middle
91	4016	Sh. - gray - Ls. stringer 4002-05
4016	4026	Ls. - buff, very dense
26	33	Sh. - gray
33	37	Ls. - buff, dense, trace oolitic
37	49	Ls. - buff chalky & dense, interbedded
49	80	Sh. - gray; limestone stringers
80	90	Ls. - buff to light brown, very dense
4090	4120	Sh. - dark gray to black, brown dense Ls stringer 4106-09

OSWEGO

4120	38	Ls. - buff & brown, very dense
38	43	Sh. - black
43	49	Ls. - buff & gray, very dense
49	55	Ls. & sh. - interbedded buff Ls & black sh.
55	59	Ls. - buff, dense
59	66	Sh. - soft varicolored
66	91	Ls. - buff & light brown, very dense
91	98	Sh. - gray-green, trace greenish shaly & limy ss.
98	4204	Ls. - buff dense
4204	09	Sh. - red, gray & gray green
09	20	Sh. - green & gray green, limy, gritty
20	40	Sh. - gray, gray green, some maroon, thin Ls. stringers
40	55	Ls. - gray & buff dense
55	95	Sh. - gray, gray green, red, some concretionary Ls. - Dense Ls. stringer 77-80
95	4312	Vari-colored shale & thin dense limestone stringers, interbedded
4312	28	Sh. - vari-colored, little green dense, concretionary Ls.
28	43	Ls. & Sh. - buff, gray & green dense Ls. interbedded with gray-green sh.
43	50	Sh. - varicolored
50	54	Chert buff, mostly fresh. Little partially tripolitic
54	60	Sh. - drab gray

<u>From</u>	<u>To</u>	<u>Formation</u>
<b>MISSISSIPPIAN</b>		
4360	4369	Bel. - grayish brown granular, cherty, tan to light brown chert
69	74	Chart - white tripolitic, dolomitized, poor porosity
74	4390	La. - buff, med. xyla
90	4409	La. - light buff, coarsely xyla, glauconitic
4409	26	La. - buff - coarsely xyla, glauconitic
26	34	Chart - gray & tan mottled dolomitized chert & siliceous dolomite
4434	40	Chart & dolomite, brown fine grained dolomite
40	50	La. - gray, med coarsely xyla to dense, glauconitic
50	56	La. - buff to light brown, coarse, soft, circulated 3/4 hr. @4456
56	62	La. - gray, dense, very cherty
62	87	La. - gray, generally fine grained, siliceous, some chert, sil. glauconitic. Circ. 1 hr. @4467
87	4501	La. - gray, very siliceous, cherty, gray chert
4501	11	La. - buff & gray, soft, coarse, Circ. 1 hr. @4505
11	38	La. & chert - Siliceous limestone - simultaneous deposit of fine grained limestone and silica.
38	53	La. & chert - as above with additional abundant gray mottled chert. Lost Circ. @4551
53	4640	La. & chert - Siliceous La. - Simultaneous deposit of fine grained La. & silica - cherty in streaks - Silica is soft amorphous. Carbonate is fine, chalky
4640	45	La. - gray coarsely xyla to med. xyla, cherty, gray fresh chert
45	95	La. & Bel. & chert - Simultaneous Dep. of amorphous silica, amorphous La., and granular dolomite
4695	4703	Chart? samples very poor due to trips. New bit @4699 & 4705

**KINDERHOOK**

4703	32	Shale - dark gray to black, traces of rd. A slug of amorphous silica & carbonate 4725-30 (must have lowered suction or agitated pits. Kinderhook may be picked too high, but looks O.K.)
4732	85	Sh. - dark gray & gray green, traces of red, traces of dense concretionary La; part of shale very limsy.

**CHATTANOOGA SHALE**

4785	4801	Sh. - dark choc. brown & choc. black
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**SIMPSON**

4801	05	Bel - gray to brown, coarsely granular, cherty; brown glassy chert, part pyritic, part sandy
05	20	Sand - med. coarse, tight, trace spotted light brown stain TEST 4804-16 Open 45 Min. Weak blow 22 min. & died Dec. 12' med 30" SIP 0

<u>From</u>	<u>To</u>	<u>Formation</u>
		DST 4810-28 open 1½ hrs. Weak blow 1 hr. & died Rec. 30' and 20" SIP o
4820 37	37 46½	Ss. - Med. coarse, white, hard. Ss. med coarse, soft, white porous water sand
		Total Depth 4846½