

Section E Paris Lake east  
section

~~1066.2~~  
1061.1

~~1026.9~~  
170 in. ss., lt. to med. gray, silty, v. f. gr., irreg. bedded, beds up to 10 in.  
14'2

~~1051.0~~  
~~1012.4~~  
1046.9  
77 in. ss., lt. gray, silty, f. mic, v. f. gr., sh. pebbles up to 1/4", irreg. bedded, beds up to 12"  
6'5

~~1044.7~~  
~~1005.2~~  
1040.5  
148 in. Interb, dk. gray, v. f. mic. sh., med. gray v. f. mic. silts, med. gray, v. silty, v. f. gr. ss. ss. + silts. are irreg bedded in beds up to 3 in., ripple marked.  
12'4

~~1022.3~~  
~~995.1~~  
1028.2  
68 in. Interb, med. gray v. f. mic. silts. + med. gray, v. silty, v. f. mic, v. f. gr. ss., irreg. beds + beds up to 2 in.  
5'8

~~1026.5~~  
~~986.3~~  
1022.5  
78 in. Med. gray, v. silty, v. f. mic, v. f. gr. ss., irreg. bedded, foreset bedded, + in beds up to 12 in.  
6'6

~~1014.1~~  
~~981.9~~  
1006.0  
133 in. lt. gray ss., f. mic, v. f. gr., irreg. bedded, beds up to 3 ft.  
11'1

~~976.8~~ ~~1000.0~~ 1004.9  
10 in. Dk. gray, v. f. mic., silty, sh.  
~~1000.0~~

~~969.10~~ 1001 1004.1

24 in. ss., as below

~~2.9~~ ~~962.1~~ 1002.1

56 in. Interb. dk gray v.f. mic.  
4'8 silty sh + dk. gray v.f. mic.  
silt. in beds up to an inch

~~100.4~~ 963.2 997.4

71 in Med gray v. silty f. mic, ss.  
5'11 beds up to 2 ft., abund. mac.  
~~995.4~~ plant material

~~959.3~~ 29 in. Interb, silt st. + sh. as below,  
2's 991.5 this unit pinches out within  
20 ft.

~~983.4~~ 989.1

~~951.0~~ 168 in. Lt. gray, silty, v.f. gr. ss., abund.  
14'0 mac. plant. material - has  
lenticles of dk gray silty sh  
up to 4 in; has a bed approx  
6 ft thick which grades into  
an irreg. bedded ss. with  
beds up to 10 in.

~~979.2~~ 995.1

~~946.15~~ Altern. dk gray silty sh. +  
44 in. med gray, v. silty, v.f. mic,  
3'8 v.f. gr. ss.

~~934.2~~ ~~945.6~~ 991.4  
32.6 in. Dk. gray, v.f. mic. sh.

~~27.2~~ ~~910.4~~ ~~946.4~~ 944.2  
7 in. Dk. gray, v. silty, v.f. gr., well cement  
ed ss.

949.6

~~909.8~~ ~~940~~ 943.9  
130 in. dk. gray sh., as below

~~898.10~~ ~~938~~ 933.1  
5 in. ss. as below

~~898.5~~ ~~934~~ 932.7  
8 in. sh. as below

~~898.3~~ ~~934~~ 932.5  
7 in. of ss. as below

~~897.8~~ ~~930~~ 931.9  
120 in. Dk. gray, v.f. mic. sh.

~~897.8~~ ~~928~~ 921.9  
7 in. Med. to dk. gray, siltst., irreg  
bedded, beds up to 2 in.

~~897.3~~ 915.5  
36 in. Med. gray, sily, f. mic., v.f. gr. ss.  
beds up to 10 in.

~~897.4~~ 912.5  
69 in. Med. gray v.f. mic siltst., irreg  
bedded, beds up to 1 in.

~~897.6~~ 906.7  
43 in. Dk. gray, v.f. mic., well cemented  
v.f. gr. ss., even bedded, beds  
up to 6 in.

~~897.4~~ 903.1  
196 in. Interb. dk. gray sh. & med. gray  
siltst. - both v.f. mic. - both irreg  
bedded - beds up to 1 in.

~~897.4~~ 886.8  
375 in. Dk. gray, v.f. mic., sh.

~~897.4~~

~~855.6~~  
~~592~~

143 ft. Covered

70° N

134'4"

~~157~~ ~~774~~ 721.3  
21 in. Dk. gray slty. sh., v. f. mic.,

1'9" ~~153~~ ~~429~~ 719.5  
121 in. Med gray, v. slty, v. f. gr. ss.

10'1" f. mic., even bedded, beds to  
8 in.

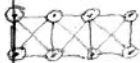
~~156~~  
~~6752~~ 709.4  
280 ft. Covered

~~152~~ ~~429~~ 429.4  
152 in. ss., lt. to med. gray, slty., v. f. gr.,  
4'4" irreg. bedded, beds up to 2 ft.  
lower most 20 in. contains  
abund. ironstone concn.

~~116~~ ~~425~~ 425.1  
53 in. ss., slty, med. gray, v. f. gr.,  
4'5" even bedded, beds up to  
10 in.

~~117~~ ~~420~~ 420.6  
20 ft. Dk. gray, slty, sh., has channel  
type deposit of med. gray, lt. f.  
gr., v. slty, ss. which is  
59 in. thick + is at the top  
of the dk. gray sh.

06  
~~107~~ 27 in slt sh., med. gray, v. f. sandy,  
23 irreg. bedded, beds up to  
31'4" 1 inch



84

~~394~~

36 in  
50

Sh, dk. gray, v.f. mic, beds up to 1/4 in.

54

~~394~~

12 in  
10

SS, lt. gray, v. sily, v.f. gr, irreg, + foreset bedded, + lenticular, sets on the dk gray sh. in a channel type relationship

84

~~394~~

32 in  
360

SS, lt. gray, v.f. gr, foreset bedded, convolute bedded, has sh. pebbles up to 1/2 in in diam, plant impressions 4" x 12", beds up to 4 ft.

84

~~359~~

95 in  
11  
7

lt. gray, ss, v.f. gr, has 2 lenses dk. gray sily, v.f. mic sh. (3 in thick) one is 20 in. from base one 39 in. from base, ss. is foreset bedded, cross bedded & in beds up to 3 ft. thick.

little  
pin  
before  
sample

350

85 in.  
7'1  
3436

Interbedded dk. gray sily sh., in beds up to 1/4", & in units up to 13 in. + a med. gray, v. sily, f. mic, v.f. gr. ss. - ripple marked & in beds up to 14 in.

34<sup>4</sup>  
36 in.

Med. gray, v. sily., v. f. gr., well cemented ss., beds up to 15 in.

340<sup>4</sup>  
4 in.

Med. gray, x. f. sandy sily., irreg beds., beds to 1/4"

340<sup>1</sup>  
8 in.

Dk. gray, v. f. mic. sh.

339<sup>4</sup>  
78 in.  
66

Lt. to med. gray sily., v. f. gr. ss., foreset & cross bedded, beds up to 3 ft.

29  
335<sup>2</sup>  
56 in.  
48

Interb. dk. gray sily sh in beds to 1/4", units to 10 in. + a med. gray, v. sily, v. f. mic, v. f. gr. ss. ss. in layers & lenses - irreg. beds<sup>ss</sup> up to 4 in. in units of 10 in. ripple marked ss.

328<sup>2</sup>  
197 in.  
165

Lt. gray sily v. f. gr. ss., cross + foreset bedded, beds up to 4 ft. some sh. pebbles up to 1/4" thick & 1/2" in diam.

31<sup>8</sup>  
17 in.  
15  
10

Dk. gray, s. sily, v. f. mic. sh., beds up to 1/4"

310'<sup>4</sup>  
63 in.  
5'3

Lt. gray, slty, f. mic, v. f. gr.  
ss., foreset bedded, beds  
to 18"

305'<sup>2</sup>  
7 in

DK. gray, v. f. mic, sh., beds up  
to 1/8"

304'<sup>6</sup>  
95 in.  
7'11

Lt. to med. gray, v. slty,  
v. f. gr. ss., foreset &  
cross bedded, beds up to  
2 ft.

294'<sup>9</sup>  
250 in.  
20'10

Interb. dk. gray sh., in units  
up to 20 in. & in beds to 1/8"  
& med. gray slty, v. f. gr. ss.,  
ss. is regular bedded, in beds  
from 3 to 12 in., some ss.  
shows evidence of scouring  
into the underlying sh.

295'<sup>4</sup>  
70 in.  
5'10

Med. gray, slty, v. f. gr., f. mic ss.  
cross bedded, contains lenses  
of dk gray sh. up to 2 in.

270'<sup>1</sup>  
26 in.  
2'9

DK. gray sh., beds to 1/8"

267'<sup>4</sup>  
456 in  
38'0  
2'9 11

Lt. to med. gray, v. slty, v. f. gr.  
ss., cross bedded, beds to  
26 in., some beds up to 6 ft.

9

229' 4  
142 in.  
11 10

Med. gray, v. slty, f. mic., v. f. gr.,  
ss., irreg. bedded, in beds  
from 1/4 to 6", contains  
abund. mac. plant. frags.,  
str. pebbles 1/4" by 1 1/2"

218' 1  
36 in  
3' 0

DK. gray, slty, f. mic. str., beds  
to 1/2"

215' 1  
24 in.  
2' 0

Med. gray, f. mic, v. slty, v. f.  
gr., well cemented, ss., irreg  
beds, beds up to 6 in.

213' 1  
26 in  
2' 2

Med. gray, v. f. sandy, f. mic.  
slts. beds to 1", irreg. bedded  
ironstone concn. up to 1/2" in  
diam.

210' 9  
20 in.  
1' 8

Med. gray, v. slty, v. f. gr., well  
cemented ss., in beds up to  
8 in., even bedded

209' 2  
40 in.  
3' 4

Med. gray, v. f. sandy, sltsl.,  
irreg. beds, beds up to  
1 in.

205' 4 7  
143 in.  
+ 48 ft.  
14

DK. gray, v. f. mic., sh.

11.11

48  
11 9



146.0 Old 20' from here on

146 ft.

Covered - prob. bl. str. - top of sec.

20'

Top of section is base of  
the Hartshorne  
ss. 1794 of mica of fgr

END

Section D - Old Hwy # 29 section  
 Southwest corner of Paris quad.

14023  
~~14026~~

158 in. sh., dk. gray, v.f. mic., beds to  $\frac{1}{4}$ "

16'6  
~~1247~~ 13859  
 374 in.

sh., dk. gray, v.f. mic., silty, beds up to  $\frac{1}{4}$ "

26'2  
 1359.1  
 1798.1

210 in. Dk., gray, v.f. mic. sh., beds to  $\frac{1}{4}$ "

17'6  
 1342.4  
 1203.4

93 in. Dk. gray, silty, v.f. mic. sh., lenses of silts. up to  $\frac{1}{2}$ " thick,

7'9  
 1334.4  
 1151.1

130 in. Dk. gray sh., v.f. mic., beds up to  $\frac{1}{4}$ "

10'10  
 1184.9  
 1323.6

65 in. Dk. gray, v.f. mic., silty, sh., beds up to  $\frac{1}{2}$  in.

5'5  
 1318.1  
 1179.4

259 in. Dk. gray silty., v.f. mic., sh., has lenses + pods of med. gray, v.f. mic. silts. up to 2 in thick.

21'7"

12966  
 1157.9

256 in. Interbedded med. to dk. gray, v.f. mic. silts. in beds up to 2 in. + dk. gray v.f. mic. silty sh., sh. in units of 2" with bedding up to  $\frac{1}{8}$ ".

21'4  
 1295.2

Have passed over 2 faults inclined to the south at 45° and 25° to the bedding - displ. is small, maybe 10 in. vertical

1180.2

along north one and 20 in. vert.  
along south one. Faults were  
observed in previous unit.

1216<sup>2</sup>  
116'5  
107 in  
8'11

DK. gray, v. f. mic., silty. sh., beds  
up to 1/4", lenses & stringers  
of med. gray, v. f. mic., silts.  
up to 1/2 in.

1266<sup>3</sup>  
~~1266<sup>6</sup>~~  
124 in.  
10'4

Interbedded, lt. to med. gray,  
v. silty, f. to med. mic., v. f. gr.  
ss., irreg. bedded, beds to  
8" + med. gray, f. mic., silts.  
irreg. bedded, in beds up to  
2", stringers of sh., silty,  
dk. gray, up to 1/2 in.

1255<sup>11</sup>  
117'2  
144 in  
22'0

ss., med. gray, v. silty, f. to med.  
mic., irreg. bedded, beds up  
to 6 in., stringers of med.  
gray, v. f. sandy, f. mic., silts,  
up to 2 in. ss. has abundant  
macerated plant frags.

1233<sup>11</sup>  
~~1233<sup>10</sup>~~  
115'2  
219 in.  
18'3

ss., med. gray, v. silty, med  
mic., v. f. gr., irreg. bedded,  
beds up to 8 in., abundant  
macerated plant material.

1215<sup>8</sup>

12158

1096'11

+ 39 ft.

More of above unit ~~is~~ dipping  
18° South

+ 13 "

+ 52 ft

lt. gray, v. slty, med. mic., v.f. ss.  
cross bedded, beds up to 4"  
dip about 16° South

16'0

45 ft

12'10" ~~11'9"~~

~~11'8"~~

96 ft

lt. gray, med. mic., v.f. to f. ss.  
irreg. bedded, beds up to 6 in.  
dipping 14° South

23'2

11'3"

~~10'4"~~

62 ft

lt. gray, v. slty, f. mic., v.f. gr.  
ss., irreg. bedded, beds up to  
10 in.

15'0

11'4"

~~10'5"~~

23 ft

v. lt. gray, med. mica, v.f. to f.  
ss., beds up to 2 ft.

1'0

11'4"

~~10'5"~~

33 ft

lt. gray, v. slty, med. mica, v.f.  
gr. ss., beds up to 6 in.

at 15° S.

119 ft ~~110'11"~~

last 7 ft. had hematite conc.  
up to 1 1/2" in diam.

at 20° S

49 ft ~~100'6"~~

at 25° S

22'9

109'10

43 in.

Dk. gray interbedded f. mic. sh.  
in beds up to 2", & med. gray  
v. slty, v.f. to med. gr. ss. beds  
up to 2".

corrected  
for dip

100'4

10691

~~10691~~  
48 in. -  
corrected  
for dip

DK. gray, sly, f. mic, sh.,  
beds up to 1 1/2"

10651  
~~9174~~  
57 ft.  
at 25° S  
23' 11"

Interbedded, lt. gray, v. sly,  
f. mic., f. gr. ss., beds to 2 in.  
med gray, f. mic. sly ss., beds  
up to 2 in., dk. gray f. mic  
sh., beds up to 1/2"

10412  
~~9255~~  
16 in.  
corrected  
for dip

lt. gray, v. f. tot. gr. ss., irreg.  
bedded, abund. iron stone,  
concr. up to 2 in. in diam.

103910  
~~7377~~  
22 ft. at  
25° S  
9' 1"

Med. gray, v. sly, med. mic. ≡  
v. f. gr. ss., beds to 4"

10309  
~~7777~~  
87 ft. at  
25° S  
36.9

Lt. gray, med. mica, v. f. tot. gr.  
ss. irreg. bedded beds up  
to 10 in. iron stone concr.  
up to 2" in diam.

216° 9940  
~~92744~~  
468 ft.

Covered

70° 6150  
~~92760~~  
43 ft.  
@ 30° S  
+ 98 ft. =  
141 ft @ 30° S

Lt. gray, v. sly, f. mic., v. f. gr.  
ss., irreg. bedded

20° 16  
46  
10

70' 16"

~~444~~  
587

526 in.  
corrected

Dk. gray, silty. sh., weathers to grayish-white

for ~~526~~  
394 ft @

ss., lt. gray, silty, f. mic., v. f. gr. irreg. bedded, beds up to 10 in.

32° S <sup>110° S</sup>  
20' 7"

~~684~~  
107 ft.

Interbedded, lt. gray, v. silty, ss., irreg. bedded, beds to 8 in.

@ 35° S  
61' 4"

+ dk. gray silty, f. mic. sh. beds up to 1/4 in. units up to 6 in.

673.5  
154 ft. @

lt. gray, v. silty, f. mic, v. f. gr. ss., irreg. bedded, beds up to 10", ripple marked

37° S  
9' 0"

~~411~~  
177 ft.

Covered

114' 0"  
~~498~~  
113 ft @

ss., lt. gray, v. silty, f. mic, irreg bedded, beds up to 4 in. thick,

45°  
88' 0"  
410' 6"

146 in  
corrected

lt. gray, v. f. sandy, f. mic, silts.

320.3  
61 in.

Dk. gray, f. mic., silty. sh.

corrected  
for dip

391' 60  
108 in.

Interbedded dk gray, f. mic. silty sh., beds to 1/8 in. Units up to 3 in. + med. gray, f. gr. ss.

corrected  
37' 5" 10

with scattered med. gr. irreg. bedded, beds up to 3 inches

~~395.10~~  
~~274.2~~  
198 in.  
16.7  
corrected  
for dip

Dk. gray, f. mic. silty, sh., beds up to 1/2 in., layers of v. silty, v. f. gr. ss. + dk. gray s/s. up to 2 in. thick

~~399.3~~  
~~251.7~~  
128 in.  
10.8  
corrected

Med. gray, med. mic., silty, f. gr. ss., irreg. bedding, beds up to 6 in.

~~348.74~~  
13 in.  
11

Dk. gray sh., weathers grayish white, ~~med gray, f. mic., f. gr.~~

~~343.8~~  
3 in.

~~ss.~~  
Med. gray, f. mic., f. gr. ss., ripple-marked

~~234.0~~  
67 in.

Dk. gray sh.,

~~341.5~~  
25 in.  
21.7

ss., lt. gray, f. mic., f. gr., beds to 8 in., irreg. bedded, ripple marked

319.10  
95 in.  
7.11

Dk. gray sh., v. f. sandy in part, sandy sh. in beds up to 1 inch

316.16  
10 in.  
311

Under clay, lt. gray, weathers to an iron stained red

3111  
~~3115~~

7 in.

Coal,

310.6

314 in

Dk. gray, v. f. mic. sh.

~~284.4~~

140 ft.  
6805

262  
30  
196.2

130.0

Dk. gray sh., v. f. mic., beds up to

1/4 "

140 in.

corrected

142.8

Interb. dk. gray sh. & dk. gray slt sh.

161 in

corrected

129.3

41 in.

As below, except contains iron stone concr. up to 2 in. in diam

corr. 3.5

126.10

155 in.  
12 "

Med. gray slts., irreg. bedded, beds from 1/2" to 1 1/2" - has stringers of dk. gray v. f. mic. sh. in upper 21 in.

112.11

13 in.

Dk. gray, v. slty., f. mic., v. f. gr. ss., beds up to 4 in.

111

118.10

237 in  
119  
971

Dk. gray, v. f. mic. sh., beds up to 1/4 in, has 2 in. stringer of dk. gray slts. at 182 in.



- 97'1  
19 in  
1'7  
DK. gray, v. f. mic., siltst., irreg.  
bedded, beds up to 2 in.
- 90'6  
124 in.  
10'4  
DK. gray, v. f. mic. st.,
- 89'2  
89'8 in.  
DK. gray, v. silty, well cemented,  
v. f. gr. ss., irreg. bedded,
- 79'6  
5 in.  
DK. gray, silty, st., beds to  
1/8 in.
- 79'1  
3 in.  
DK. gray ss. as below
- 78'10  
113 in.  
9'5  
Interbedded dk. gray siltst.  
dk. gray silty. st., dk. gray  
silty, well cemented, v. f. ss.  
all units v. mic.
- 69'5  
320 in.  
26'8  
DK. gray, silty, st., DK. gray  
siltst., irreg. bedded, beds  
up to 1/4 in.
- 42'9  
176 in.  
14'8  
Interb. dk. gray, v. silty, well  
cemented, v. f. gr. ss. +  
dk. gray siltst. + ss. is irreg.  
bedded + beds up to 6 in.  
siltst. is irreg. bedded, in  
beds up to 1/4 in.

M

337 in Inter. dk. gray silty sh., + dk  
28' gray siltst.

↪ 7 in band of dk gray, v. silty,  
well cemented ss. at 138 in.

END

Section C

Southwest corner of Paris quad.

223' /  
473 in.  
39'5

sh., dk. gray, v. f. mic., beds to 1/4 in., lenses of dk. gray well cemented silt. up to 1/4"

At 260 in. a small fault, inclined 30° to bedding, 60° to the south, little displacement.

182'8  
370 in.  
30'10

Med. gray, f. mic. silt., irreg bedded beds up to 2" thick,

151'10  
70 in.  
5'10

ss., med. gray, v. silt., v. mic., v. f. gr., irreg. bedded, beds to 5 in., near base has slickensides on bedding planes, indicating movement toward North.

146'0  
128 in.  
10'8

Interbedded, dk. gray, v. f. mic, sh., dk. gray silt., med. to dk gray v. silt., v. f. gr ss., bedding in wht irreg, beds up to 1 1/2 inches

135'4  
286 in.  
23'10

Med. to dk. gray, v. silt., v. f. gr ss., irreg. bedded, beds up to 2 inches, stringers of silt. up to 1/4 inch.

11'6  
4.44 in.  
37'2  
ss., med. gray, v. silty, v. f. mic.,  
v. f. gr., even bedded, beds up  
to 10 in.

14'4  
203 in  
17'1  
ss., med. gray, v. silty, f. mic.,  
v. f. gr., irreg. beds, beds up  
to 10 in., laminae of dk. gray  
silty sh. up to 1/16" thick.

573  
174 in  
14'6  
Covered

42'9  
343 in.  
28'9  
ss., med. gray, v. silty, v. f. gr.,  
even bedding, bedding up to  
3 feet., v. f. mica.

14'0  
107 in  
8'11  
Covered

51  
61 in.  
5'11  
ss., as below

end

June 11, 1958

# Gum Creek Section

Section B - southcentral part of the Paris quad. -

354' 9"  
226 in.  
1 8' 10"

ss., med. gray, v. slty., f. mic., v. f. gr.,  
irreg. bedded, beds 2-18 in. thick.

335 11"  
14 H.I. s  
82' 2"

Covered

253 9"  
14 H.I. s  
109' 3"

sh., dk. gray, v. f. mic., beds to 1/4"

144' 6"  
2 H.I. s  
11' 6"

concealed, to approx. base of ss.

133' 0"  
44 in.  
3' 8"

ss., med. gray, slty., f. mic., v. f. gr.  
beds to 3 ft.

129' 4"  
110 in.  
9' 2"

ss., med. gray, v. f. gr., crossbedded,  
lenses of dk. gray slty. sh., lenses  
of limonite(?) or hematite(?),  
iron nodules are layered in the  
ss. in zones from 1-10 inches.  
where iron oxide has leached  
out, ss. has honeycomb appear-  
ance, - iron oxide deposits appear  
to be localized and not extensive

120' 2"  
54 in.  
4' 6"  
115' 8"  
75 in.  
6' 3"

ss., med. gray, slty., f. mic., v. f. gr.,

Interbedded med. gray, slty,  
f. mic., v. f. gr. ss., crossbedded,  
foreset bedded, beds up to 2 ft.  
some contains iron oxide (limonite)

lenses (upto 6 in.), slty, med. to dk. gray sh.

- 109'5"  
43 in. ss, med. gray, slty., f. mic., v. f. gr.,  
3' 7"  
105'10"  
10 in. irreg. bedded, ripple marked, bed to 10 in.  
sh, dk. gray, slty, beds to 1/4"
- 105'0"  
4 in. ss, med. gray, slty, irreg. bedded,  
v. f. gr.,
- 104'8"  
14 in. sh, dk. gray, f. mic., slty, irreg.  
1" 2"  
bedded, beds to 1/8 in.
- 103'6"  
94 in. ss, med. gray, f. mic., slty, v. f. gr.  
7' 10"  
foreset bedded in part, beds to  
6 in.
- 95'8"  
10 in. sh, dk. grey, v. f. mic., beds to 1/8",
- 94' 10"  
121 in. ss, med. gray, slty, f. mic. + bedded  
10' 1"  
foreset bedded, beds to 1/4 in.  
hematite pebbles up to 1/2 in. in  
diam. ~~v. f. gr.~~, v. f. gr.,
- 84'9"  
49 in. ss, v. f. gr., v. slty, f. mic., irreg.  
4' 1"  
bedded, beds 1/4 to 2 in.,
- 84'8"  
94 in. ss, med. gray, slty, f. mic., ripple  
7' 10"  
marked, bedding 2-10 in., even bedding

76'10"

40'8"

488 in.

36'2"

13'7"

163 in

22'9"

43 in.

3'7"

19'0"

188 in.

15'8"

3'4"

40 in.

ss., lt. to med. gray, s/ky, v.f. gr.,  
irreg. bedded, + bedded, ~~horset~~  
bedded, beds 1 to 8 in. thick,

ss., lt. to med. gray, s/ky, f. mic.,  
irreg. bedded, beds 1-14 in. thick

ss., med. gray, f. mic., v.f. gr.,  
even bedded, beds 2-14 in. thick

ss., med. gray, v.f. gr., well cemented,  
bedding severely convoluted

ss., lt. to med. gray; s, s/ky, f. mic.,  
v.f. gr., + bedded, beds up to 8 in.,

June 11

# Red Bench Section

Section A - measured in SE

corner of Paris quad. - measured from: starts below the 4th ss. below the Hartshorne.

- 338' 2"  
102 in. Interbedded, dk. gray v.f. mic. sh., + med. to dk. gray, v.f. mic. siltst. irreg. bedded, beds up to  $\frac{1}{2}$ ".
- 324' 8"  
2 H.I. s DK. gray, v.f. mic. sh., bands of iron stone, up to  $\frac{1}{4}$ ", sh. beds up to  $\frac{1}{8}$ ".
- 318' 2"  
1 H.I. Covered
- 312' 5"  
4 H.I. s DK. gray v.f. mic. sh.
- 289' 5"  
4 H.I. s DK. gray, v.f. mic. sh., abond. iron-stone, coner. ovoid to round, up to  $\frac{1}{2}$ " in diam.
- 266' 5"  
26 H.I. s DK. gray v.f. mic. sh.
- 116' 11"  
5 H.I. s DK. gray silty v.f. mic. sh., irreg. bedded, beds up to  $\frac{1}{2}$ ".
- 88' 2"  
5 H.I. s Covered.



59' 5"  
5 H.I. s

Inter bedded, dk. gray v.f. mic. sh.  
& med. to dk. gray v. f. mic sfts.  
irreg. bedded, beds up to 1/4"

30' 8"  
2 H.I. s

Med. to dk. gray sfts., v.f. mic., with  
stringers of dk. gray v.f. mic  
sh. up to 1/4", sfts is irreg.  
bedded, with beds up to 1 in.

2 H.I. s

Inter bedded ss., lt. to med. gray  
v. slty., v.f. mic, v. f. gr, irreg.  
bedded, beds up to 1 1/2 inches, &  
med. gray v. f. sandy, v. f. mic.  
sfts.

1 H.I.

Covered to the hill top

MOVED SOUTH ABOUT 1/4 MI.  
ALONG MTN.

19' 2"  
111 in.  
9' 3"

Interb. med. gray, v. slty, v.f. mic  
ss. & dk. gray v.f. mic sh. &  
med. to dk. gray v.f. mic. sfts.  
all irreg. bedded, with ss. beds  
up to 1 in. (v.f. gr. ss.)

9' 11"  
23 in.

Med. gray v. slty. v.f. mic., v.f.  
gr, ss., irreg. bedded, beds up to  
3 in.

8  
8 ft.

Med. gray, v. s/ty, f. mic., vit. gr.  
ss., even bedded, beds up to  
18 in.

Short Mtn. Creek Section

May 18, 1959

B.R. Haley, E.A. Merewether

60B.0

21' 11"

Ss., gy. - wh., f. gr., irreg. bdd., bds. from 2-10", scattered md. grains, cross bdd., f. mica.,

586.1

6' 4"

Ss., lt. gy., v. f. gr., sh. sly., f. mica., irreg. bdd., bds. 4-30",

579.8

1' 8"

Sh., dk. gy., bddg.  $\frac{1}{8}$  -  $\frac{1}{4}$ ", lenses + pods of md. gy. slys. + lt. gy. f. gr. ss.

578.1

1' 0"

Ss., lt. gy., v. f. to f. gr., lenticular type ss. ranging in thickness from 4-16", rests upon underlying sh. with a channel type relationship

577.1

2' 7"

Sh., dk. gy., lenses of lt. to md. gy. v. f. gr. ss., lenses range in thickness from  $\frac{1}{2}$ " - 1", unit grades from dk. gy. sh. at base to 2 ss. + sh. at the top. Prob. 40% ss. at the top.

574.5

1' 9"

Ss., lt. gy., v. f. gr., cross-bdd., all one bd., sh. pebbles  $\frac{1}{4}$ " x 1", iron st. pebbles up to  $\frac{1}{2}$ " across,

572.7

7"

Ss., md. gy., v. f. gr., sly., f. mica., irreg. bdd., bds. from  $\frac{1}{8}$ " -  $\frac{1}{2}$ ", ripple marked,

572.1

4"  
571.8  
6' 3"

sh., dk. gy. to gy. bl., bddg  $\frac{1}{16}$  -  $\frac{1}{4}$ "

ss., lt. gy., v.f. gr., slty., f. mica.,  
foreset bdd., bds. from 1-12"  
has a 2' zone of convolute bddg.  
at top, containing stringers &  
layers of dk. gy. slty. sh. & sh.  
up to 1" in thickness.

565.6

88' 11"

ss., gy.-wh., v.f. gr., hard, f. to md.  
mica., irreg. bdd., bds. from 1-20";  
to top of Hartshorne ss., convolute  
bddg. in last 15'

476.7

308' 0"

Covered (dip vertical)

168.7

104' 6"

ss., md. gy., v.f. gr., slty., f. mica.,  
irreg. bdd., bds. from 2-20", cross  
bdd., foreset bdd.,

64' 2"

ss., lt. to md. gy., f. gr., f. to md. mica.,  
irreg. bdd., bds. from 2-10", convolute  
bdd., cross bdd., few ironst. pebbs.  
up to  $\frac{1}{2}$ ", becomes slty. in upper  
15'

END OF SECTION

Subiaco Lake Section

May 15, 1959

B.R. Haley - E.A. Merewether

- 1300.2  
10' 0" Sfts., yell.-br., irreg. bdd., bds. up to 1/2",
- 1290.2  
2' 3" Ss., md. gy., v.f. gr., v. s/ty., all one bd. - base of this ss. is prob. the base of the Hartshorne fm.
- 1288.0  
9' 2" Ss., lt. gy., v.f. to f. gr., s/ty., irreg. bdd., bds from 1/4-1" zone of ironst. t. concre. 1' from top.
- 1278.0  
8' 0" Ss., lt. gy., v.f. to f. gr., scatt. md grs., bds. from 2-2 1/2", md. gr. mica, cross bdd., foreset bdd. to the south,
- 1270.8  
5' 0" Ss., lt. gy., v.f. gr., irreg. bdd., bds from 1-8",
- 1265.8  
7' 0" Ss., lt. gy., f. gr., abund. ironst. nods., nods. up to 2" in diam. weathered surface of unit looks almost like a weathered conglomerate.
- 1258.8  
5' 0" Ss., lt. gy., v.f. gr., irreg. bdd., bds from 2-10", streaks of ironstone 1/8 by 2"
- 1253.8  
15' 0" Ss., gy.-wh., v.f. gr., irreg. bdd., bds 6-30" f. to md. gr. micaceous,

1238.8

13' 0"

Ss., gy. wh. to lt. gy., v.f. to f. gr., cross  
+ foreset bdd, foreset to north, f. to  
md. mica.,

1225.8

14' 3"

Ss, v.f. gr., v. slty., reg. bdd., bds. from  
 $\frac{1}{2}$ " - 3", makes real fine bldg. stone,  
lt. gy. to lt. yell. gy.

1211.6

10' 3"

Ss., gy.-wh., f. gr., irreg. bdd, cross  
bdd., foreset bdd., foreset bdd. to  
the south,

1201.4

40' 0"

Covered

1161.4

5' 10"

Ss., lt. gy., v.f. gr., all one bed

1155.6

2' 8"

sh., dk. gy., <sup>to bl.</sup> bddg.  $\frac{1}{4}$ ",

1152.9

1' 0"

Ss., lt. gy., v.f. gr., slty., f. mica.,

1151.9

1' 10"

sh., dk. gy., bddg.  $\frac{1}{8}$  -  $\frac{1}{4}$ "

1150.1

1' 1"

Ss., v.f. gr., v. slty., f. mica., lt. gy.,

1149.0

15' 5"

Interbd. dk. gy. sh. + md. to dk. gy.  
slts., sh. in bds. up to  $\frac{1}{4}$ ", slts. in  
bds. up to  $\frac{3}{4}$ ", some slts. is  
ripple marked. Has lens of slts.  
at its top. slts. ranges from 0-2  
ft. within dist. of 5 ft.

1133.6

6' 0" sh., dk. gy. to gy. bl., bddg.  $\frac{1}{8}$  -  $\frac{1}{4}$ "

1127.6

1' 0" ss., dk. gy., v. f. gr., v. slty., well cemented

1126.6

2' 7" sltst., md. gy., f. mica., irreg. bdd., bds. from  $\frac{1}{16}$  - 1"

1124.0  
9"

sh., dk. gy. to gy. bl., bddg.  $\frac{1}{8}$ "

1122.2  
9"

ss., md. gy., v. f. gr., slty., f. mica., top is ripple marked

1121.4  
9"

slts., md. gy., irreg. bdd., bds. from  $\frac{1}{8}$  -  $\frac{1}{4}$ ", f. mica.

1120.6  
10"

sh., gy.-bl.,  $\frac{1}{4}$ " bdd.,

1119.8  
5"

ss., md. gy., well cemented, top ripple marked

1119.4

6' 0"

sh., md. gy., slty., irreg. bdd., bds. from  $\frac{1}{8}$  - 1", has 14" lens of v. f. gr. md. gy. ss. 3' from the top, lens is 7' long.

1113.4

41' 11"

ss., md. gy., v. f. gr., f. mica, irreg. bdd., bds. from 6-30", abund. carb. streaks (prob. plant frags.)

1071.5

23' 2" ss., lt. gy., v.f. gr., f. mica., slty.  
irreg. bdd., bds. from 2-30",  
<sup>Hartshorn</sup> some convolute bddg.

~~1048.1~~ <sup>340' 0"</sup> Covered

708.3

114' 3" ss., md. gy., v.f. gr., v. slty., v.f. mica.,  
irreg. to reg. bdd., bds. from 1-12"

594.9

151' 5" ss., lt. gy., v.f. to f. gr., sl. slty., v.f.  
mica., irreg. bdd., bds from 2-24"

578.6

14' 0" ss., lt. gy., v.f. gr., almost slt. size, fairly  
clean, irreg. bdd., bds. from 2-10"

564.6

100' 0" Covered, may be dk. gy. sh.

464.6

72' 0" sh., dk. gy., bds.  $\frac{1}{8}$ - $\frac{1}{2}$ ", has dk. greenish  
gray cast on weathering,

392.4

312.7

387' 0"

Covered - top of unit is top of  
this number Mc Alester fm. contact not exposed  
not corrected for dip 1st 200 ft. @ 80°, last 187 ft. @ 70°N.

20.1 <sup>MacP</sup>

20' 0" <sup>Savanna.</sup> ss., v.f. gr., v. slty., gy-wh., irreg. bdd.,  
bds from  $\frac{1}{2}$ -10"

END OF SECTION



Pine Hill Section

May 15, 1959

B.R. Haley - E.A. Merewether

438.5

~~458.5~~

~~493.5~~

82' 6"

Sh., dk. gy. to gy. bl., bddg.  $\frac{1}{16}$ - $\frac{1}{8}$ "  
upper limit of this zone is the  
top of the McAlester fm.

Contact between McAlester +  
Savanna fms. is sharp and  
channel type.

1' 6" s/lst., md. to dk. gy., clayey, v.f. sandy,  
all one bed, ripple marked at  
the top,

3" Sh., dk. gy., s/lgy., bedding  $\frac{1}{4}$ "

9' 5" ss., br.-gy. f. gr., irreg. bddg.,  
bds 2-10", f. to md. gr. mica.,  
ripple marked, few s/lst. partings  
up to 1"

Moved to Pine Hill for section

9' 4" Sh., dk. gy., bddg.  $\frac{1}{8}$ - $\frac{1}{4}$ " top of unit  
~~376.0~~ is top of McAlester  
~~411.0~~ 358.5

11' 6" s/lst., sl. v.f. gr. sandy; at the base  
abund. ironst. concre. (up to 3" in  
diam.); s/lst. rests upon McAlester  
in a channel type relationship and in  
one place a 2' cut into the McAlester

- ~~344.5~~  
~~399.5~~  
 5' 9" trends approx. E-W. siltst. is irreg. bdd., ripple marked, beds from  $\frac{1}{2}$ " -  $\frac{3}{8}$ "
- 338.7  
~~358.7~~  
~~393.7~~  
 5' 9" ss., lt. to md. gy., f. gr., sily., irreg. bdd., ripple marked, foreset bdd., bds. from 2-8", ss. becomes v.f. to f. gr. at the top.
- ~~352.4~~  
~~387.7~~  
 332.7  
 5' 5" siltst., md. gy., irreg. bdd., bds. from  $\frac{1}{4}$ " - 1", ripple marked,
- 327.3  
~~347.3~~  
~~382.3~~  
 5' 5" sh., dk. gy. - gy. bl., interbdd w. dk. gy. siltst.; sh. is  $\frac{1}{8}$ " -  $\frac{1}{16}$ " bdd. in zones up to 8"; siltst. is bdd.  $\frac{1}{4}$ " - 7" in zones up to 6"; unit is prob. 60% sh.
- ~~341.9~~  
~~376.9~~  
 321.9  
 5' 5" siltst., md. gy., irreg. bdd., bds. from  $\frac{1}{8}$ " - 4", sl. v.f. gr. sandy,
- 291.7  
~~241.1~~  
~~326.4~~  
 50' 9" sh., dk. gy., bddg.  $\frac{1}{16}$ " -  $\frac{1}{2}$ ", bds of claystone up to 4", claystone contains abund. plant frags. type not identifiable - a few ironst. concn. up to 3" in diam.
- 9' 8" siltst., lt. gy., irreg. bdd., bds  $\frac{1}{16}$ " - 1" thick, has zones in which the bddg is such that the siltst. appears to have

~~261.4~~  
~~261.4~~  
~~316.4~~

flowed prior to solidification.

4' 4"  
~~259.1~~  
~~277.1~~  
312.1

Interbdd, slts, + sh., <sup>dk.gy.</sup> sh. bdd.  $\frac{1}{16}$ - $\frac{1}{8}$ "  
slts. is dk. gy. + bdd.  $\frac{1}{8}$ -1"; unit  
is prob. 60% sltst.

3' 9"  
~~308.3~~ ~~253.3~~  
~~273.3~~

Sh., dk. gy.,  $\frac{1}{16}$ - $\frac{1}{4}$ " bddg.

1' 0"  
~~272.3~~ ~~252.3~~  
~~209.3~~

Coal - 200yds. East this coal bed  
is 15" thick.

5' 5"

Sh., dk. gy.,  $\frac{1}{8}$ - $\frac{1}{2}$ " bdd.; grades  
into overlying unit.

~~246.9~~  
~~266.9~~  
301.9

6' 11"

Interbdd. md. gy. slts. + dk. gy. sh.,  
slts. in bds  $\frac{1}{4}$ ", sh. in zones  $\frac{1}{4}$ " in  
bds  $\frac{1}{16}$ "; unit is prob. 60%  
slts.

~~260.0~~  
~~245.0~~ ~~240.0~~  
3' 3"

Sh., dk. gy., bddg up to  $\frac{1}{2}$ ", abund.  
ironst. concre. up to  $\frac{1}{2}$ ".

~~156.8~~  
~~241.8~~  
~~211.5~~ ~~236.8~~  
5' 4"

Coal

~~234.8~~  
57' 6"

Sh., dk. gy., bddg.  $\frac{1}{16}$ - $\frac{1}{4}$ ", ironst. bands  
+ concre. up to  $\frac{1}{2}$ ", slty. bands up to  
 $\frac{1}{2}$ ", upper 15' poorly exposed.

~~199.0~~  
~~234.2~~ 153.0

5' 9"

Ss., gy.-white, f.gr., porous,

~~173.2~~ Moved eastward

~~228.2~~

20' 0"

sh., dk. gy.,  $\frac{1}{8}$  -  $\frac{1}{2}$ " bdg., ironstone bands up to  $\frac{1}{2}$ " top of this sh. is the same as the top of the last sh. described before moving

~~142.2~~

~~208.2~~

26' 0"

S/shs., md. to dk. gy., irreg, bdd., bds from  $\frac{1}{2}$ " - 3", v. sl. sandy, ripple marked, upper 3 ft. has float blocks of gy.-wh. v.f. to f.gr. ss., could be equivalent to the ss. descr. prior to the move.

179.0

~~147.2~~

~~182.2~~

132' 3"

sh, dk. gy., bdg  $\frac{1}{16}$  to  $\frac{1}{4}$ ", scatt. ironst. bands & concr. up to  $\frac{1}{2}$ " (in lower 6'). 1 ft. slty. zone at 28' 9",

15' 0"

Ss., gy.-wh., f.gr., scatt. md. gr.,

END OF SECTION