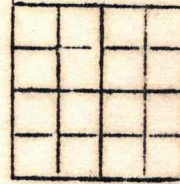


Company As furnished By Prof. Hatch
C. L. Bloom Driller

Farm No.

Total Depth
Comm. *July 1899* Comp.
Shot or Treated
Contractor
Issued

Sec 29 29? - 11 - 23E
Prob Sec 29
Plotting
E. M.
Sec. ? T. 11 R. 23 E
Loc. NW SE NW NW
1/2 mi north of Bonner Springs Kan.
Borden map 9/9/30
County



(over)

Casing

20 in.	10 in.
15 1-2	8 1-4
12 1-2	6 5-8
13 3-8	5 3-16

Elevation *856 L.S.*

Production

Figures Indicate Bottom of Formation

0	6	Surface
6	56	Lime
56	59	Shale
59	99	Lime
99	110	Shale
110	130	Lime
130	135	Shale
135	160	Lime
160	170	Shale
170	190	Lime
190	193	Shale
193	203 <i>BKC</i>	Lime
203	365	Shale
365	389	Lime
389	391	Shale
391	404	Sand (Gas)
404	416	Shale
416	419	Lime
419	429	Shale
429	439	Lime
439	454	Shale
454	464	Lime
464 <i>Ch</i>	484	Sand Shale
484	515	Shale
514	539	Shale with coal
539	549	Sand
549	534	Shale with coal vein
534	539	Fine Clay
539	675	Shale
675	695	Sand (Gas)
695	767	Shale with Coal Vein
767	865	Sand and Shale (Sandy)
865 <i>M</i>	1273	Lime

1273 <i>K?</i>	1296	Shale
1296 <i>✓</i>	1298	Hard Rock
1298	1337	Lime
1337 <i>Mg?</i>	1341	Shale
1341	1391	Lime Soft
1391	1419	Lime
1449	1524	Lime
1524 <i>S</i>	1569	Sand and Sandy Lime
1569 <i>A</i>	1744	Lime and Shale
1744	1907	Lime and Shale
1907	2000	Lime and Shale fossil
2000	2150	Lime Gray porous

Bottom of hole

Prof Hatch says the base of the Miss lime was 1296 Base of Lime at Kickapoo well near Dearborn 1666 Base of lime in the Winchester well 1900

Dip from Bonner Springs to Leavenworth is 26 feet to the mile North West from Bonner Springs is still more than to Leavenworth

1273
865
408

29-11-23E NW SE NW NW
 furnished by Prof. Hatch

USGS Bull 264
 298 606. Well near Bonner Springs, Wyandotte County.

[Well begun in July, 1898; completed in February, 1899. Authority, S. J. Hatch. No samples. Geologic correlations by E. O. Ulrich.] Cont.: C. L. Bloom

This well record is of interest in connection with the preceding one, since the log shows not only the thickness of the Cherokee shale, the bottom member of the Pennsylvanian, but the underlying Mississippian limestones. A fossil shell brought up from 2,065 feet was pronounced by E. O. Ulrich to be probably a crushed specimen of *Dinorthis subquadrata*, indicating that the limestone bed from which it came corresponds in age to the Maquoketa shale of the central Mississippi Valley, the uppermost Ordovician, which, west of Mississippi River, immediately overlies the Trenton. The well penetrates the Pennsylvanian and Mississippian series (Carboniferous) and rocks of Devonian, Silurian, and Ordovician age.

1/2 mile north of Bonner Springs

230 RECORD OF DEEP-WELL DRILLING FOR 1905.

Record of well one-half mile north of Bonner Springs.

	Feet.
Iola to Pleasanton: .	
Limestone and shales.....	0- 203
Pleasanton:	
Shales.....	203- 365
Pleasanton to Fort Scott and Cherokee:	
Limestone and shales.....	365- 464
Cherokee:	
Shales; gas at 391 and 559 feet.....	464- 767
Winslow and Morrow (?):	
Sand; full of salt water.....	767- 865
Hard dark limestone.....	865- 894
Mississippian:	
Light-colored limestone containing flint.....	894-1,056
Gray and brown limestone containing flint.....	1,056-1,193
Dark-brown gritty limestone.....	1,193-1,273
Light-blue shale, with 2 feet of very hard limestone at the base.....	1,273-1,296
Brown crystalline limestone.....	1,296-1,337
Blue slaty shale.....	1,337-1,341
Purple and white limestone, soft at bottom.....	1,341-1,391
Limestone, reddish and flinty at top, gray and soft at bottom.....	1,391-1,449
Devonian (?):	
Gray and bluish to dark fossiliferous limestone.....	1,449-1,524
Sandstone, clear white at top, darker and reddish at the bottom; salt, sulphur water at 1,525 feet.....	1,524-1,569
Silurian (?):	
Limestone with partings of grayish shale.....	1,569-1,744
Gray and dark limestone with porous layers and seams of shale.....	1,744-1,907
Ordovician:	
Variously tinted limestone, some parts porous, others very close grained..	1,907-2,150
Casing used, 400 feet of 8 $\frac{1}{4}$ -inch, 900 feet of 6 $\frac{1}{4}$ -inch, 1,350 feet of 4 $\frac{1}{2}$ -inch. Elevation of well mouth about 800 feet.	