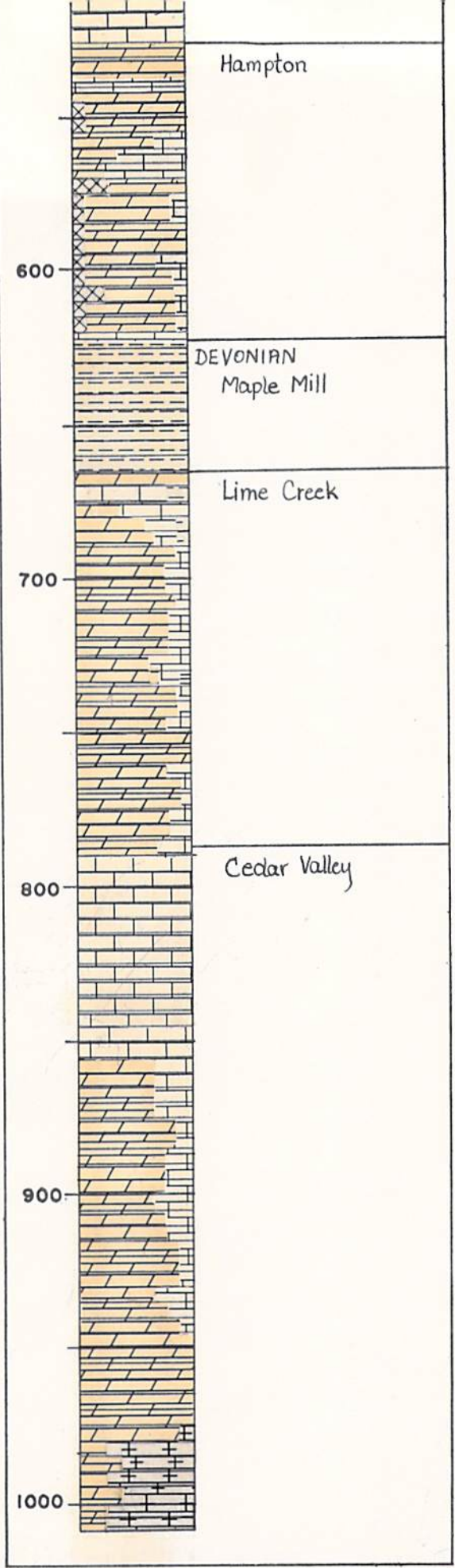
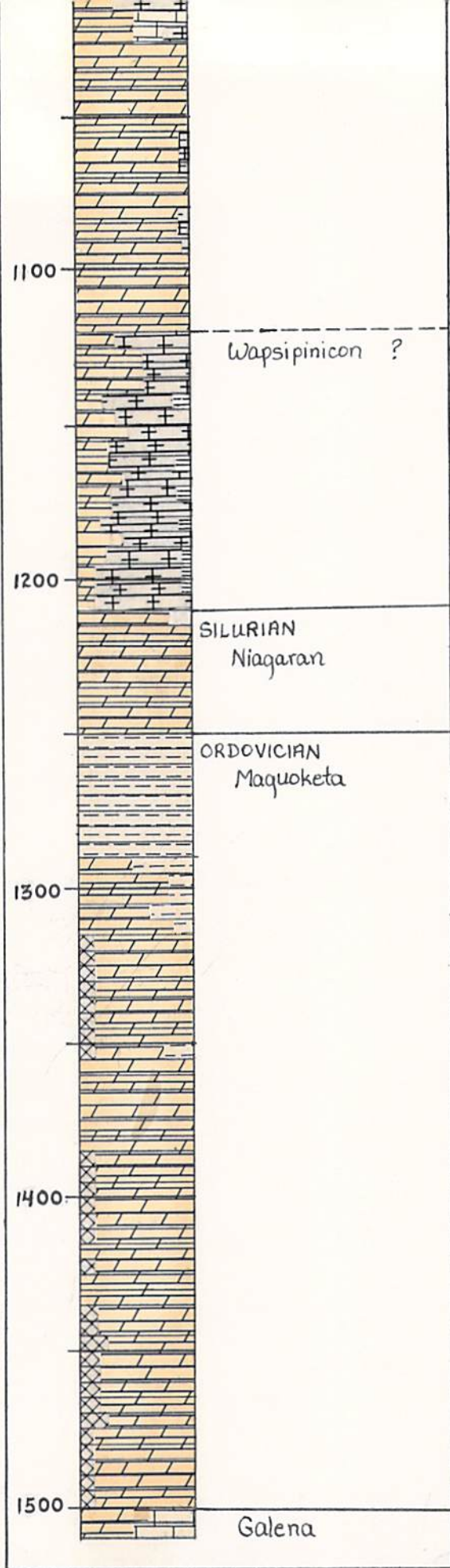


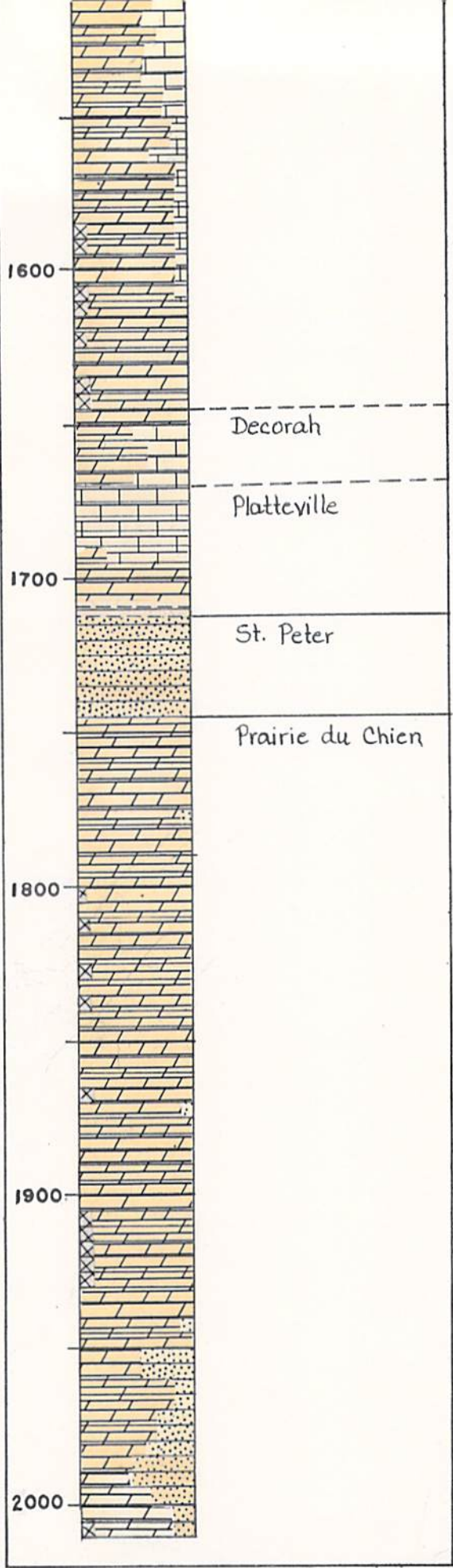
IOWA GEOLOGICAL SURVEY In Cooperation with U. S. GEOLOGICAL SURVEY Iowa City, Iowa																		
Name Knoxville City Well #1 (1967)		State Iowa																
Town Knoxville	County Marion	Loc. NE NE NE SE																
Contractor Driller L. F. Winslow		Sec. 1																
Drilling Dates - Oct. 7, 1967		T. N., R. 75 N. 20 W.																
Casing Record 1854' of 12" csg.		<table border="1" style="width: 100px; height: 100px;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																
S.W.L. 228'	G.P.M. 1529'	D.D. 87'																
Remarks Depths from KB, 13' above ground.		Elev. Ground el. 895'																
Logged By Northrup Nov. 1967		T.D. 2290'																
		I.G.S. No. W-19961																

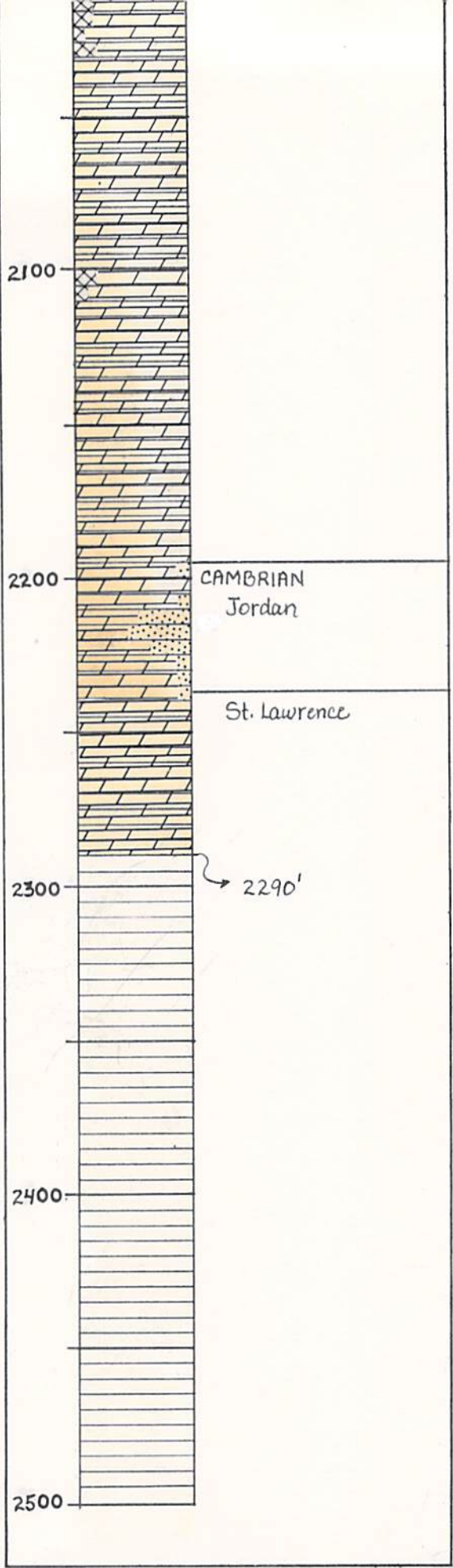
Explanation  
of Colors

- Soil
- Loess, Silt or Siltstone
- Drift
- Sand & Gravel
- Shale
- Sandstone
- Limestone
- Dolomite
- Chert
- Gypsum or Anhydrite
- 
- No Samples









# HOEG & AMES, INC.

WELL DRILLING — WELL REPAIRING

Municipal - Industrial - Commercial

PHONE 515 - 473-2707

LINCOLN, IOWA

KNOXVILLE City Well #1

N 1/2 E 521 - 75 N - 20 W

ELEVATION = 895'

LA PONTA CITY MISSING

- TOP SILURIAN = 1210'
- TOP MAQUOKETA = 1250' to 1255'
- TOP GALENA = 1500'
- TOP DECONAR - PLATTENVILLE = 1645' to 1650'
- TOP ST. PETER = 1711'
- TOP PRAIRIE DU CHIEN = 1753'
- TOP JORDAN = 2185' ±
- TOP ST LAWRENCE = 2234'

TOTAL DEPTH 2290'

PLEASANTVILLE TOWN WELL

TOP GALENA @ 1503'

TOP DECONAR - PLATTENIC 1705'

TO ST. PETER 1728'

SE SW NW 31-76N-19W

118' OF 26' SAMPLE

882'

PLEASANTVILLE #12

882' (714.00)

PUMPING TEST AT KNOXVILLE.

BEGAN 10/12/67 @ 12:30 PM.

FINISHED 10/13/67 @ 7:00 AM.

PUMP SET @ 400'

SWL 230'

PL 270' @ 1016 G.P.M.

PL 346' @ 1669 G.P.M.



GW Knoxville well  
Folder (Marion Co.)  
(1967)

September 29, 1967

Mr. Elmer Giddle, Resident Engineer  
U. S. Corps of Engineers  
Knoxville, Iowa

Dear Mr. Giddle:

At the request of Mr. Ed Winslow we have checked the drill cuttings from the new Knoxville City well, and can advise you that the St. Peter Sandstone was reached at a depth of 1712 feet, and the underlying Prairie du Chien Dolomite at 1753 feet. These calls are based on the well samples themselves as well as the drilling time log. In light of the above, we feel that it is now all right to set and cement the permanent string of casing, as soon as the Prairie du Chien has been penetrated to a depth of one hundred feet, or at a depth of 1853 feet.

Please feel free to call on us if you have any questions, or if we can be of further service.

Very truly yours,

H. G. Hershey

HGH-RCN/1

GW Knoxville Gen Data  
Marion Co.

October 10, 1967

Mr. E. G. Gidel  
Res. Engineer  
Red Rock Dam  
Box 89  
Knoxville, Iowa

Dear Mr. Gidel:

A check of the cuttings from the new well at Knoxville has been made, and we find that the top of the Jordan Formation is at approximately 2185 feet, and the underlying St. Lawrence Dolomite at 2234 feet. After conferring with Mr. James Jones, Geologist for the Corps of Engineers, it was decided to drill to 2290 feet for completion depth of the well. This will allow a penetration of the St. Lawrence of fifty six feet.

Please advise if we can be of future service.

Yours very truly,

H. G. Hershey

HGH/njc

*GW Knoxville City well Abde.  
Harrison Co.*

**October 13, 1967**

**E. G. Gidel, Resident Engineer  
Red Rock Dam  
Box 89  
Knoxville, Iowa**

**Dear Mr. Gidel,**

**This will acknowledge the information which you gave us relative to the pumping tests for the new Knoxville city well.**

**On the basis of the data received, it appears that you have a better than average Jordan well for this part of Iowa, and that acidizing is not necessary. An acid job is costly and while it might raise the pumping level a bit, it is doubtful that it would improve the specific capacity very much in this instance.**

**The final decision on acidizing must rest with the city, of course, but in our opinion we do not feel there would be much gained. If they should decide to acidize, however, Mr. Winslow is well qualified to do this work, as he has had very good success in this field with other wells he has recently completed.**

**Please let us know if we can be of further service.**

**Very truly yours,**

**H. G. Hershey**

**HGH/RCN:wg**

GW Knoxville Gen Data  
Mason Co.

January 19, 1968

Mr. John W. Hesling  
Garden Engineering Service  
P. O. Box 451  
Oskaloosa, Iowa 52577

Dear Mr. Hesling:

Enclosed are the three copies each of the sample log of Knoxville Jordan well No. 1 and the water analysis of the water from that well as requested in your letter of January 15.

Similar information from the Jordan well No. 2 will be supplied when available.

Very truly yours,

H. G. Hershey

HGH/OVE:njc  
Enclosures



**GARDEN ENGINEERING SERVICE**

PHONE 673-7637 P.O. BOX 451

OSKALOOSA, IOWA 52577

CONSULTING ENGINEERS

JANUARY 15, 1968

MERRILL L. GARDEN, P.E.

JOHN W. HESLING, P.E.

JOHN W. N. STEDDOM, P.E.

IOWA GEOLOGICAL SURVEY

JAN 17 1968

DR. H. G. HERSHEY  
IOWA GEOLOGICAL SURVEY  
GEOLOGICAL SURVEY BUILDING  
IOWA CITY, IOWA 52240

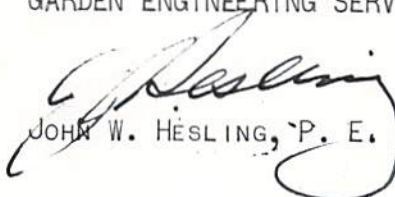
DEAR DR. HERSHEY:

TO COMPLETE OUR RECORD OF KNOXVILLE WELL No. 1, WE WOULD LIKE TO HAVE 3 COPIES OF LOG OF STRATA ENCOUNTERED, AND 3 COPIES OF MINERAL ANALYSIS. WE WILL INCLUDE ONE OF EACH ALONG WITH PUMPING TEST DATA, AND FRICTION LOSS CALCULATIONS TO THE CORPS OF ENGINEERS, CITY OF KNOXVILLE WATER COMPANY, AND OUR OWN FILES.

ALSO, WHEN THE INFORMATION IS AVAILABLE WE WOULD LIKE 3 COPIES OF THE SAME INFORMATION ON KNOXVILLE WELL No. 2.

YOURS TRULY,

GARDEN ENGINEERING SERVICE

  
JOHN W. HESLING, P. E.

WH

JANUARY 15, 1968

D. W. EBERT  
ASSOCIATE CHEMIST  
STATE HYGIENIC LABORATORY  
405 STATE OFFICE & LAB. BUILDING  
EAST 7TH AND COURT  
DES MOINES, IOWA

DEAR MR. EBERT:

THIS MORNING I HAD DELIVERED TO YOU ONE SAMPLE BOTTLE OF WATER WHICH I TOOK AT KNOXVILLE WELL No. 2 AT 6 P.M. SUNDAY, JANUARY 14, 1968.

WOULD YOU PLEASE MAKE A COMPLETE MINERAL ANALYSIS OF THE SAME AND SEND A COPY TO ME, AND THE FOLLOWING:

DR. H. G. HERSHEY  
IOWA GEOLOGICAL SURVEY  
GEOLOGICAL SURVEY BUILDING  
IOWA CITY, IOWA 52240

ROLLIE JOHNSON  
WATER SUPERINTENDENT  
KNOXVILLE, IOWA 50138

WALTER C. GELINI  
COLONEL, CORPS OF ENGINEERS  
CONTRACTING OFFICER  
CLOCK TOWER BUILDING  
ROCK ISLAND, ILLINOIS 61202  
ATTENTION: TOM RODHOUSE

YOURS TRULY,

GARDEN ENGINEERING SERVICE

JOHN W. HESLING, P. E.

WH

CC: DR. H. G. HERSHEY  
WALTER C. GELINI  
ROLLIE JOHNSON

COMPANY WINGLOW FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: KNOXVILLE SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2150			
51		7	
52		9	
53		10	
54		12	
55		7	
56		8	
57		10	
58		9	
59		12	
60		8	
61		6	
62		6	
63		6	
64		4	
65		6	
66		6	
67		6	
68		7	
69		7	
70		12	
71		12	
72		10	
73		9	
74		11	
75		12	
76		10	
77		12	
78		12	
79		12	
80		11	
81		12	
82		12	
83		12	
84		11	
85		10	
2185			
86		9	
87		9	
88		12	
89		10	
90		12	
91		12	
92		11	
93		15	
94		15	
95		15	
96		16	
97		14	
98		17	
99		19	
2260		23	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2200			
01			TRIP
02		7	
03		7	
04		9	
05		7	
06		8	
07		6	
08		10	
09		9	
10		6	
11		10	
12		9	
13		6	
14		5	
15		5	
16		9	
17		10	
18		12	
19		9	
20		10	
21		3	
22		3	
23		3	
24		3	
2225		4	
26		2	
27		3	
28		6	
29		7	
2230		6	
31		4	
32		4	
33		3	
34		8	
35		7	
36		6	
37		7	TD To Be 2290'
38		6	
39		8	
2240		9	TOP SS. LAWRENCE
41		7	
42		8	
43		10	
44		6	
45		6	
46		5	
47		8	
48		3	
49		9	
50		9	

ROTARY DRILLING TIME SHEET # 503  
 KANSAS BLUE PRINT CO., WICHITA, KAN.

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: KNOXVILLE SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1105			
6		19	
7		22	
8		19	
9		21	
17 10		23	
11		22	TOP ST. PETR
12		7	
13		7	
14		5	
17 15		5	
16		7	
17		9	
18		10	
19		5	
20		5	
21		6	
22		6	
23		5	
24		5	
25		3	
26		2	
27		3	
28		5	
29		5	
30		3	
31		4	
32		8	
33		5	
34		6	
35		5	
36		6	
37		8	
38		6	
39		4	
40		6	
41		9	
42		6	
43		7	
44		8	
45		6	
46		12	
47		9	
48		9	
49		5	
50		6	
51		4	
52		4	
53		6	TOP PRAIRIE DU CHIEN 1753
54		10	
17 55		9	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1159			
56		7	
57		10	
58		12	
59		12	
60		15	
61		14	
62		15	
63		12	
64		10	
65		15	
66		15	
67		12	
68		12	
69		15	
70		11	
71		12	
72		10	
73		16	
74		18	
75		17	
76		13	
77		16	
78		14	
79		12	
80		13	
81		14	
82		17	
83		12	
84		14	
85		12	
86		10	
87		14	
88		11	
89		12	
90		14	
91		16	
17 92		16	

ROTARY DRILLING TIME SHEET # 503  
 KANSAS BLUE PRINT CO., WICHITA, KAN.