

GW Knoxville Gen Data  
Marion Co.

MEMORANDUM

TO: Dr. H. G. Hershey  
FROM: Richard C. Northrup  
RE: Knoxville City Well #2

A trip was made to Knoxville, November 9, to check on the second deep well for the city being drilled by Ed Winslow. At the time of my visit, drilling had reached 1050', but they are in real trouble, as their drill pipe became stuck, and in attempting to free it, put too much stress on the rig, and collapsed the derrick. The crown block and upper part of the derrick are a complete wreck, and Mr. Winslow estimates that it will be at least two weeks before the derrick can be repaired and the drill pipe freed, prior to drilling ahead. Fortunately, no one was hurt when the accident occurred.

This is rather a "low blow" as the first Jordan well at Knoxville was a highly successful one, with no problems while drilling was in progress, with a splendid yield of over 1500 gpm, you may remember from my previous memo.

This second well is north of town, and I obtained accurate locations and elevations from the new 7½ minute Knoxville (Northwest) Quadrangle. All samples to date were picked up.

*Thanks. RBN 11/14/67*

MEMORANDUM

TO: Dr. H. G. Hershey  
FROM: Richard C. Northup  
RE: Knoxville City Well #2  
DATE: December 19, 1967

Samples have now been received to a depth of 1850' from the second deep well at Knoxville. Their long series of delays finally ended and they are now a bit over a hundred feet into the Prairie du Chien and casing has been set and cemented to surface from 1850'. Drilling was to resume today at noon, and they should reach their final total depth around 2280' by the end of the week if all goes well. Bud Scheetz visited the well yesterday (Monday), and reports that they will not pump the well until after Christmas. All samples to date have now been received. As in the case of the first well, the Corps of Engineers has had one of their geologists checking the samples periodically. They will drill to approximately the same total depth as the first well, though possibly a bit short as the starting elevation is fifteen feet lower. We will be notified in time to be on hand for the pumping test.

GW Knoxville City well  
No. 2 folder  
(Marion Co)

MEMORANDUM

January 5, 1968

TO: Dr. H. G. Hershey  
FROM: Richard C. Northup  
RE: Knoxville City Well #2

At the request of Mr. Ed Winslow, a trip was made to Knoxville, on Wednesday, January 3, to verify the top and base of the Jordan section. On the basis of the well cuttings and drilling time top of the Jordan was picked at 2,173 feet, and the St. Lawrence at 2,230 feet. At the time, I left the rig, drilling had reached 2,240, and it was decided to drill to 2,280 feet for final total depth, as specifications call for a fifty foot penetration of the St. Lawrence. They plan on pumping the well by next week, and Mr. Winslow will call me in time to be there for the test.

*Noted RCH 1/5/67*

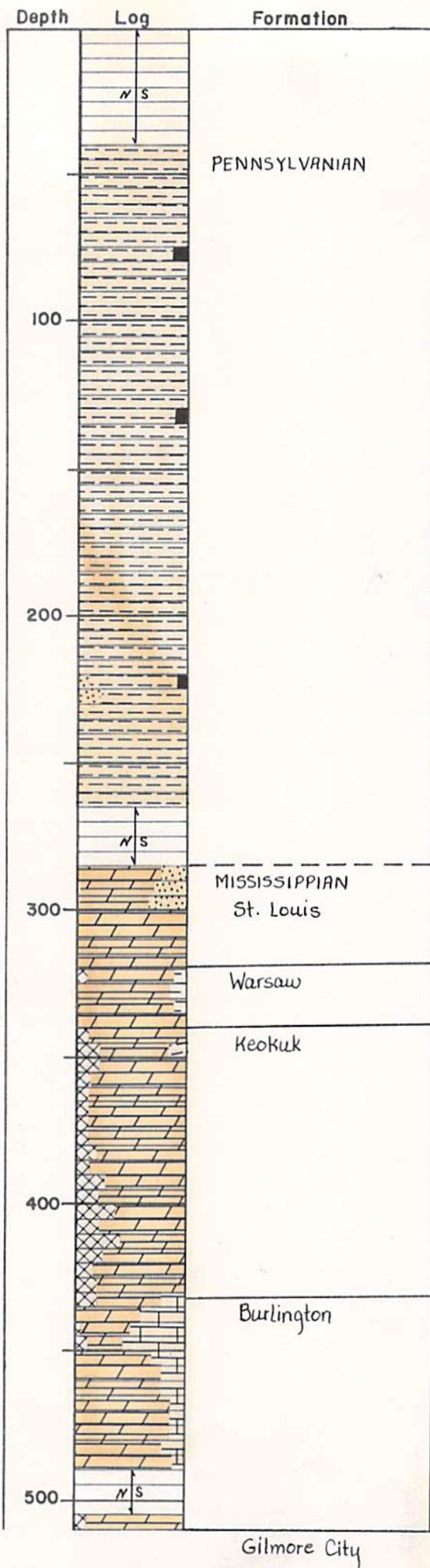
GW. Knoxville Gen Data  
(Marion Co)

MEMORANDUM

January 16, 1968

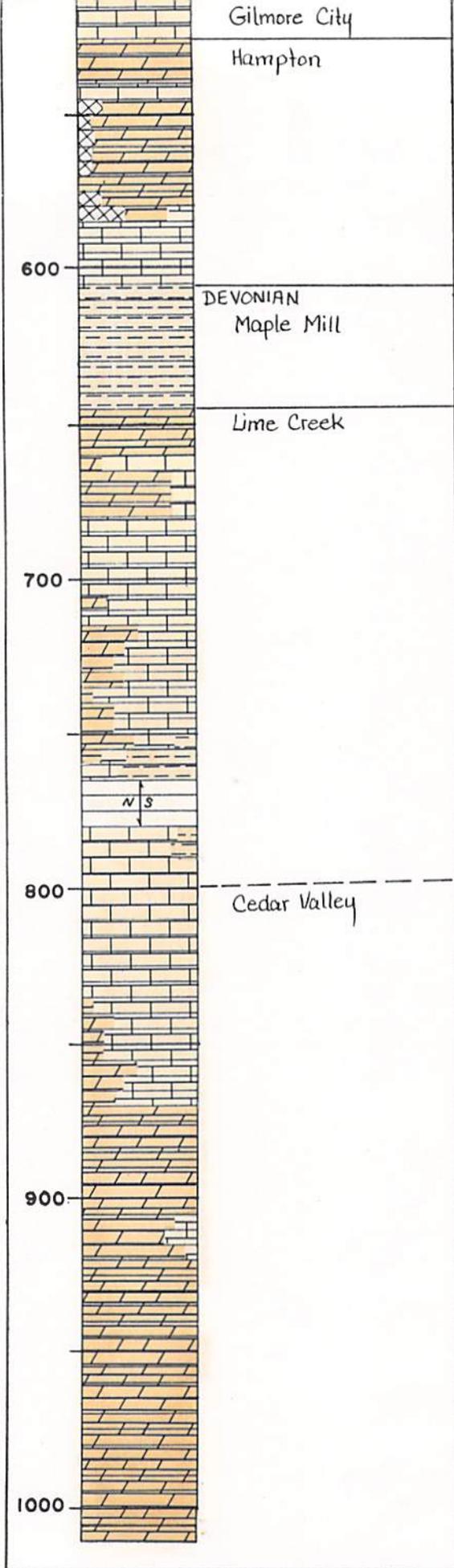
TO: Dr. H. G. Hershey  
FROM: Richard C. Northup  
RE: Completion of Knoxville City Well #2

A trip was made to Knoxville yesterday to pick up remaining samples and to copy the pumping test data on the Knoxville City Well #2. As in the case of the first well, the yield was excellent with satisfactory pumping level and hence unnecessary to acidize. The well was pumped from 10:30 A.M. Saturday morning until 6:00 P.M. Sunday; including a shutdown of 50 minutes from 5:10 to 6:00 P.M. Saturday to install a new airline guage, and a brief shutdown around 9:30 P.M. Saturday, to put in a larger orofice and discharge pipe. Static water level was 206<sup>m</sup>, and the well pumped at a consistent rate of 1080 gpm for fifteen hours with 56' of drawdown, for a specific capacity of 19.1 gallons per foot of drawdown. The highest pumping rate was 1613 gpm with 102 feet of drawdown for a specific capacity of 15.6 gallons per foot of drawdown. The city plans on pumping both the new wells alternately at around 1,000 gpm. As they are a mile and a half apart there should be little, if any interference.

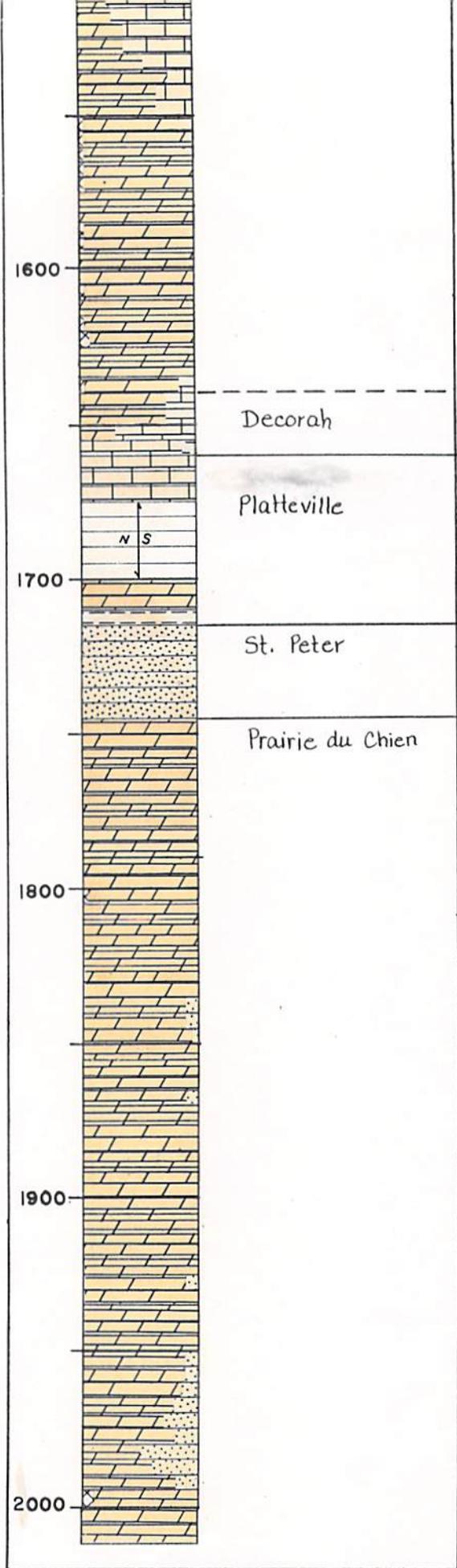


IOWA GEOLOGICAL SURVEY In Cooperation with U. S. GEOLOGICAL SURVEY Iowa City, Iowa		
Name KNOXVILLE CITY WELL #2		State IOWA
Town KNOXVILLE	County MARION	Loc. SE SW NW
Contractor L. F. WINSLOW		Sec. 31
Drilling Dates OCT. 22, 1967 to JAN. 14, 1968		T. 76 N., R. 19 W.
Casing Record 118' of 26" CSG. 1850' of 12" CSG.		
0-1850' CEMENT GROUTED		
S.W.L. 206'	G.P.M. 1613	D.D. 102'
Remarks ALL READINGS TAKEN FROM KELLY BUSHING - 13' ABOVE GROUND.		Elev. 880'
Logged By NORTHUP MARCH, 1968		T.D. 2280'
		I.G.S. No. W-20042

- Explanation of Colors**
- Drift
  - Sand & Gravel
  - Shale
  - Sandstone
  - Limestone
  - Dolomite
  - Chert
  - Coal
  - No Samples









**DRILLER'S NOTEBOOK**

\_\_\_\_\_  
**WELL RECORD**

Driller.....

Address.....  
.....

\_\_\_\_\_  
Owner..... *CITY OF KNOXVILLE #2*

Address..... *Drilling Time*  
.....

\_\_\_\_\_  
**RETURN TO**  
**IOWA GEOLOGICAL SURVEY**  
**IOWA CITY, IOWA**

**WHEN RECORD IS COMPLETED PUT IN ENVELOPE AND MAIL TO**

**THE DIRECTOR**

**IOWA GEOLOGICAL SURVEY**

**IOWA CITY, IOWA**

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	1700	1701	35
		02	68
		03	38
		04	25
		05	21
		06	30
		07	34
		08	20
		09	20
		10	30
		11	16
		12	24
		13	16
		14	9
		15	10
		16	5
		17	5
		18	3

Drilling  
Taru St. Person

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
1718 - 1719	13
20	6
21	9
22	14
23	15
24	12
25	8
26	8
27	8
28	9
29	8
30	8
31	9
32	10
33	10
34	10
35	8

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	1735	1736	8
		37	8
		38	6
		39	8
		40	10
		41	10
		42	10
		43	9
		44	9
		45	7
		46	11
		47	15
		48	17
		49	16
		50	13
		51	15
		52	10

DESCRIPTION OF BEDS		
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
1752	- 1753	7
	54	10
	55	16
	56	22
	57	20
	58	28
	59	20
	60	16
		
DRILLING TIME Knoxville #2 1/2-3/68 ONEOTA - ST. LAWRENCE		
2142	To 2143	10
	44	7
	45	10
	46	15
	47	10
	48	7
	49	5
	50	5

SAMPLE NO.	DEPTH		THICKNESS M.P.F.
	From	To	
	2150	2151	7
		52	7
		53	10
		54	14
		55	14
		56	10
		57	9
	Madison	58	6
		59	8
	Madison	60	6
		61	7
		62	8
		63	4
		64	9
		65	9
		66	12
		67	9

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	M.P.F.
2167 - 2168	10
69	7
2170	11
71	8
72	8
— Jonow 73	6
74	5
75	4
76	5
77	4
78	3
79	4
80	4
81	2
82	3
83	2
84	3
85	3

SAMPLE NO.	DEPTH		THICKNESS M.P.N.	DESCRIPTION OF BEDS	
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	2185	2186	3	2202	M.P.N. 14
		87	5	52	04 18
		88	8		05 11
		89	6		06 9
		90	7		07 9
		91	3		08 8
		92	11		09 9
		93	27		10 10
		94	28		11 9
		95	17		12 12
		96	18		13 24
		97	9		14 12
		98	17		15 7
		99	24		16 10
		2200	18		17 12
		01	18		18 15
		02	9		19 18
					20 11

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS	
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	2120	2121	M.P.R. 11	2237 - 2238	M.P.F. 9
		22	10	39	8
		23	11	40	15
		24	11		
		25	11		
		26	9		
		27	9		
		28	13		
		29	6		
		30	10		
		31	12		
		32	12		
		33	8		
		34	9		
		35	12		
		36	13		
		37	12		

Top of bed  
2230

To on H To 2270 on 2280

FOR FIGURING, CASING TALLY, ETC.

FOR FIGURING, CASING TALLY, ETC.

1045-1215'      SAMPLES  
1675'-1700'      MISSING

BASE ONIOTA 2160' ±  
MADISON 2160' ±  
TOP JONON 2175' ± 1'  
SAMPLES AND DRILLING TIME