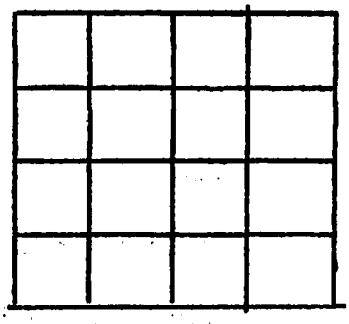
7½ New Hampton Quad
430349 0921923-01
95-13-12 ABDD
1980 field located by D. Karsten

#15936

IOWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL



Location: NW. PART OF CITY ALONG AND JUST SOUTH OF RAILROAD

Town: NEW HAMPTON (NE) (SW) County CHICKASAW

SE NW NE Sec. 12, T. 95, N., R. 13 (E) (W) Twp.

Well name and number

Owner NEW HAMPTON City Well (1964) Address NEW HAMPTON, IOWA

Tenant Address

Contractor HOAG & AMES, INC. Address LINCOLN, IOWA

Drillers LEROY AMES

Drilling dates NOV. 15 1963 – JUNE 10, 1964

Well data:

Altitudes: Drilling curb ___ feet; Land surface ___ feet 1160' +

Determined by

Topographic position

Total depth: Reported ___ feet; Measured 1325' feet

Drilling method

Hole and casing data LINER 300'-501'

Original depth to water ___ ft. above below Date

Source of data

Sources of water: Principal PRAIRIE du CHIEN - JORDAN

Others ST. LAWRENCE?

PRODUCTION DATA

Date

Static water level 250'

Pumping water level 300.3'

Yield (g.p.m.) 875

Measuring point

Duration of pumping

Specific capacity

LABORATORY DATA TL5-488-489-490

Well No. #15936 Sample range 0-1325 No. of samples 245

No. of dupls. and cond. 245 FAIR Washed range 170-1325

Samples prepared by LOVETT Date 4/17/64

Logged by NORTRUP Date 1964

Correlations by " Date 1964

January 14, 1964

Mr. Homer Rhodes
c/o Hoag and Ames, Inc.
Lincoln, Iowa

Dear Mr. Rhodes:

This letter will verify our discussion last Friday in regard to the well at New Hampton. A cursory check of the samples suggests the top of the Decorah-Platteville section to be at approximately 700 feet. From your current depths of 710 feet, we would estimate that the top of the St. Peter sandstone will probable be about sixty to sixty-five feet deeper on at approximately 770 to 775 feet. This is based on logs of deep wells at Charles City, Rudd, and Mason City. Our nearest control points the remaining section above the St. Peter will, in all likelihood, be shale for the most part, with a few limestone breaks. The St. Peter itself can be expected to run about sixty-five feet in thickness so that the anticipated top of the Prairie du Chien will probably be in the neighborhood of 840 feet. These estimates may be a bit off, due to thickening or thinning of the various units, but we believe they are reasonably close.

We will be glad to check the remaining samples before casing is set, and trust that they will reach us as drilling progresses.

Please feel free to call on us if you have any further questions.

Very truly yours,

H. G. Hershey

HGH/l

G-W New Hampton Gen Data
Chickasaw Co.

January 28, 1964

Mr. Robert L. Brice
Robert L. Brice & Associates
401 Black Hawk Building
Waterloo, Iowa

Dear Mr. Brice:

We would like to be of service to the people of New Hampton and, in order to insure that their new well will have a good quality of water we recommend that the casing be set at a point 50' below the St. Peter.

Normally the limestones immediately below the St. Peter are creviced and allow St. Peter water to travel through them. The thickness of these crevice systems vary but rarely, if ever, exceed fifty feet. Consequently casing set to this point will minimize the entrance of St. Peter water into the finished well.

Needless to say, our records indicate that the St. Peter water will not be of as good a quality as that of the water in the Jordan.

Very truly yours,

C. N. Brown

CNB/m

CITY OF NEW HAMPTON, IOWA.

WELL # 4A.

DRILLERS' LOG OF FORMATIONS.

0'	to	2'	-	Black Dirt.
2'	to	30'	-	Yellow Clay
30'	to	120'	-	Sandy Blue Clay.
120'	to	140'	-	Sand, Gravel, and Blue Clay.
140'	to	168'	-	Dark Gray Sandy Sea Mud.
168'	to	195'	-	Yellow Limestone, Very Broken.
195'	to	215'	-	Broken Limestone, Sand, and Mud.
215'	to	235'	-	Yellow Limestone.
235'	to	265'	-	Gray Limestone, Some Shale.
265'	to	295'	-	Light Brown Limestone.
295'	to	300'	-	Yellow Sandstone.
300'	to	328'	-	Yellow Limestone.
328'	to	340'	-	Blue Shale.
340'	to	356'	-	Gray Dolomite and Shale.
356'	to	385'	-	Blue Shale.
385'	to	690'	-	Gray and Brown Dolomite.
690'	to	695'	-	Hard Shale.
695'	to	700'	-	Brown Dolomite.
700'	to	705'	-	Hard Blue Shale.
705'	to	755'	-	Hard Green Shale.
755'	to	775'	-	Gray and Brown Dolomite.
775'	to	780'	-	Green Shale.
780'	to	785'	-	Green Shale.
785'	to	848'	-	St. Peter Sandstone.
848'	to	901'	-	Brown Dolomite, Very Hard.
901'	to	915'	-	Gray Dolomite.
915'	to	970'	-	Brown Sandy Dolomite.
970'	to	1190'	-	Light Brown Dolomite.
1190'	to	1305'	-	Jordan Sandstone.
1305'	to	1325'	-	Brown Dolomite.

June 18, 1964.

RECORD OF WELL # 4A, CITY OF NEW HAMPTON, IOWA.

Owner - City of New Hampton, Iowa.
Location - Northeast corner of football practice field in Northwest part of the City.
Engineering Company - Robert L. Brice & Associates, 401 Black Hawk Building, Waterloo, Iowa.
Contracting Company - Hoeg & Ames, Inc., Lincoln, Iowa.
Drillers - A. K. Scott and LeRoy Ames.
Started the Well - November 19, 1963.
Finished the Well - June 11, 1964.
Total Depth of Well - 1,325 feet.
Main Water Supply - From 1190' to 1305' below surface.
Static Water Level - 250 feet.
Draw-down 50 feet, pumping 860 gallons per minute.

Casing Record.

193 ft. of 22" O.D., bottom set at 193 ft.
199 ft. of 20" O.D., bottom set at 485 ft.
123 ft. of 18" O.D., bottom set at 785 Ft.
496 ft. of 16" O.D.*
405 ft. of 12" I.D.*

* The 16" and 12" pipes were welded together with a flanged welding nipple and set in one continuous string from top to bottom. The 16" and 12" casings were cemented in the drill hole using 1330 sacks of cement. The cementing was done by Halliburton Company, of Duncan, Oklahoma.

Log
On File
upstairs

MASTER CARD - A

STATE	COUNTY	LATITUDE DEG	LATITUDE MIN	LATITUDE SEC	N or S	LONGITUDE DEG.	LONGITUDE MIN	LONGITUDE SEC.	SEQ NO
1 2	3 4	5 6	7 8	9 10	11	12 13 14	15 16	17 18	19
19	94	30	35	0	N	092	19	26	1

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO 095-13W-12 ABD CO CHICKASAW

OWNER New Hampton City ADDRESS New Hampton

DRILLER Hess & Amick well 1964 DATE DRLD 6-10-64

MAP

SOURCE OF DATA File

DESCRIPTION M. P. LSD FEET (ABOVE) (BELOW) LSD

CONTINUED FROM ABOVE	ACCURACY	LOCAL WELL NUMBER T	R	E/W	SEC.	QUARTERS	LOCAL USE W-NUMBER	OPTIONAL	OWNER OR NAME	OWNERSHIP	WATER USE	WELL USE	WELL DATA	FREQ. W/L	FIELD CHAR.	HYD LAB	QW-DATA	QW-FREQ.	PUMPAGE	APERTURE	LOG DATA	CARD DESIG.
	20	21 22 23	24 25	26	27 28	29 30 31 32 33 34	35 36 37 38 39	40 41 42 43 44 45 46 47 48 49 50 51	52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	67	68	69	70	71	72	73	74	75	76	77	78 79	80
		095	13	W	12	ABD	15936	1 64 CITY	NEW HAMPTON IA	M	P	W		Ø							G	A

WELL-DESCRIPTION CARD - B

DUPLICATE CARD A CC 1-19	DEPTH OF WELL	ACCURACY	DEPTH CASED OR FIRST PERF.	DIAM. INCHES	WELL FINISH METH DRILLED	YEAR DRILLED	PUMP SETTING	METH. LIFT	DEEP/SHALLOW	POWER	ALTITUDE OF LSD (FEET)	ACCURACY	WATER LEVEL (FEET)	ACCURACY	DATE MONTH	DATE YEAR	YIELD OF WELL (GPM)	METH. DET.	DRAW-DOWN (FEET)	ACCURACY	PUMPING PERIOD (HOURS)	QUALITY OF WATER IRON	SULF.	CHLOR	HARD	SP. COND.	TEMP	DATE SAMPLED	CARD DESIG.
	20 21 22 23	24	25 26 27 28	29 30	31	32 33 34 35	36 37 38	39	40	41	42 43 44 45 46	47	48 49 50 51	52	53 54 55		56 57 58 59 60	61	62 63 64	65	66 67 68	69	70	71	72	73	74 75 76	77 78 79	80
		1	3250	3		90	1		16	X		9	64																B
											1 1 5 8 7		250	D	6 6 4		8 7 5		50 3									

HYDROGEOLOGIC CARD - C

DUPLICATE CARD A CC 1-19	PHYSIOGRAPHY PROV.	SEC.	DRAINAGE BASIN	SUBBASIN	TOPO SETTING	MAJOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITHOLOGY	ORIG.	THICKNESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	MINOR AQUIFER SYSTEM	SERIES USGS	SERIES IGS	UNIT	LITHOLOGY	ORIG.	THICKNESS	LENGTH WELL OPEN TO	DEPTH TO TOP OF	DEPTH TO CONSOLIDATED ROCK	SOURCE	DEPTH TO BASEMENT	SOURCE	SURF. MAT. LITHOLOGY	SURF. MAT. INFIL.	COEF. TRAN. SIG. FIG.	COEF. TRAN. XIO	COEF. STOR. SIG. FIG.	COEF. STOR. XIO-	CARD DESIG.
	20 21	22	23 24 25	26	27	28	29	30	31	32 33	34	35 36 37	38 39 40	41 42 43	44	45	46	47	48 49	50	51 52 53	54 55 56	57 58 59	60 61 62 63	64	65 66 67 68	69	70 71	72	73 74	75	76 77	78	79	80
														1186																					
	12	E	26	A		C	3	S	T	CV	6		139	A 190	1	L	P	8	D	6	338	285	848	166	C			T	4					C

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

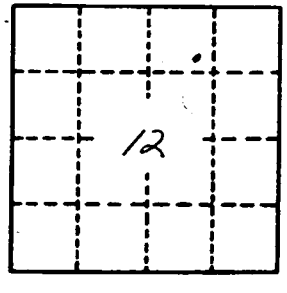
193' of 22" O.D. 0-193'
199' of 20" O.D. set ab 485'
120' of 18" O.D. set ab 485'
496' of 16" O.D. and 405' of 12" welded together and set in one continuous string from top to bottom and cemented w/1330 sacks
- Main water 1190' - 1305' ± cement.

CODED BY E Savage DATE 1-10-75

PUNCHED BY DATE

VERIFIED BY DATE

SKETCH ON REVERSE: YES NO



WELL NO 095-13W-12 ABD