IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

RECORD OF WELL

Location:

Town: Talbot (N E S½W); County Fremont

NW SW NW sec. 4 T. 70 N., R. 42 W. Green Twp.

Well name and number Talbot Town Test No 1

Owner Town of Talbot Address

Tenant Address

Perkins City Clerk

Contractor Rex Lane Address Blanchard

Drillers Nuckolls and McGinnis

Drilling dates Feb 7 to March 20, 1945

Well data:

Elevations: Drilling curb 1220 ± pdl feet; Land surface feet

Determined by SEDF

Topographic position slope of upland

Total depth: Reported 76 feet, Measured feet

Drilling method cable tool

Hole and casing data 6¼ casing 0-23 ft

(Give amount, size, kind, and depth of all casing; type and position of seals and packers, cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)

Original depth to water 115 ft. ~~above~~ below Date March 18 1945

Original elevation of water level ft.; Source of data

Sources of water: Principal Deer Creek; Others

10/-1971

Production data: Date March 18, 1945

Static depth to water 115 Measuring point

Pumping level 135 at 20 g.p.m.

Specific capacity g.p.m. per ft. drawdown; Temperature °F.

Pump data; Type pump Column Dia. Length

Cylinder or bowls: Dia. Length Suction pipe

Power Airline

Estimated rate of production: g.p.m. for hrs. a day

Use of water

WATER ANALYSES (in parts per million)

Date sampled	Feb. 19 1945			
Sampled by	Lowe.			
Total solids				
Insoluble matter	147.4			
Alkalinity (Meo)	358.6			
Alkalinity (Phn)	0.0			
pH				
Fe_2O_3+ Mn_2O_3+Al_2O_3	27.0			
Alkali as sodium				
Calcium	99.3			
Magnesium	27.1			
Iron (unfiltered)	40.0(?)			
Manganese				
Nitrate				
Fluoride				
Chloride	40.0			
Sulfate				
Bicarbonate	436.8			
Hardness (ppm)	431			
Hardness (gpg)	25.2			

Remarks Small paper sample.

Laboratory data: Sample storage location

Sample range 95-276 No. spls. 21 No. dupls. & cond. 19 Por

Spls. prepared by Rush Washed range by

Driller's log and cond.

Insoluble residues: Prepared by Studied by Strip log

Microscopic study 95-276 strip log April 2, 1945

Gen. log Correl. by S.C. Ahrens, Jr.

WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

Reported by driller

REMARKS

On Feb 20, 1944 ran bailing test
Casing to 230 ft depth 267 ft
1. SWL 115 ft ±
2. bailed 1000 gal in 55 min
3. Water level drawn down 12 ft and couldn't lower it any more.
4. came back 8 ft in 5 min

Fremont-Mills

File Tabor Town well folder

June 26, 1953

MEMORANDUM

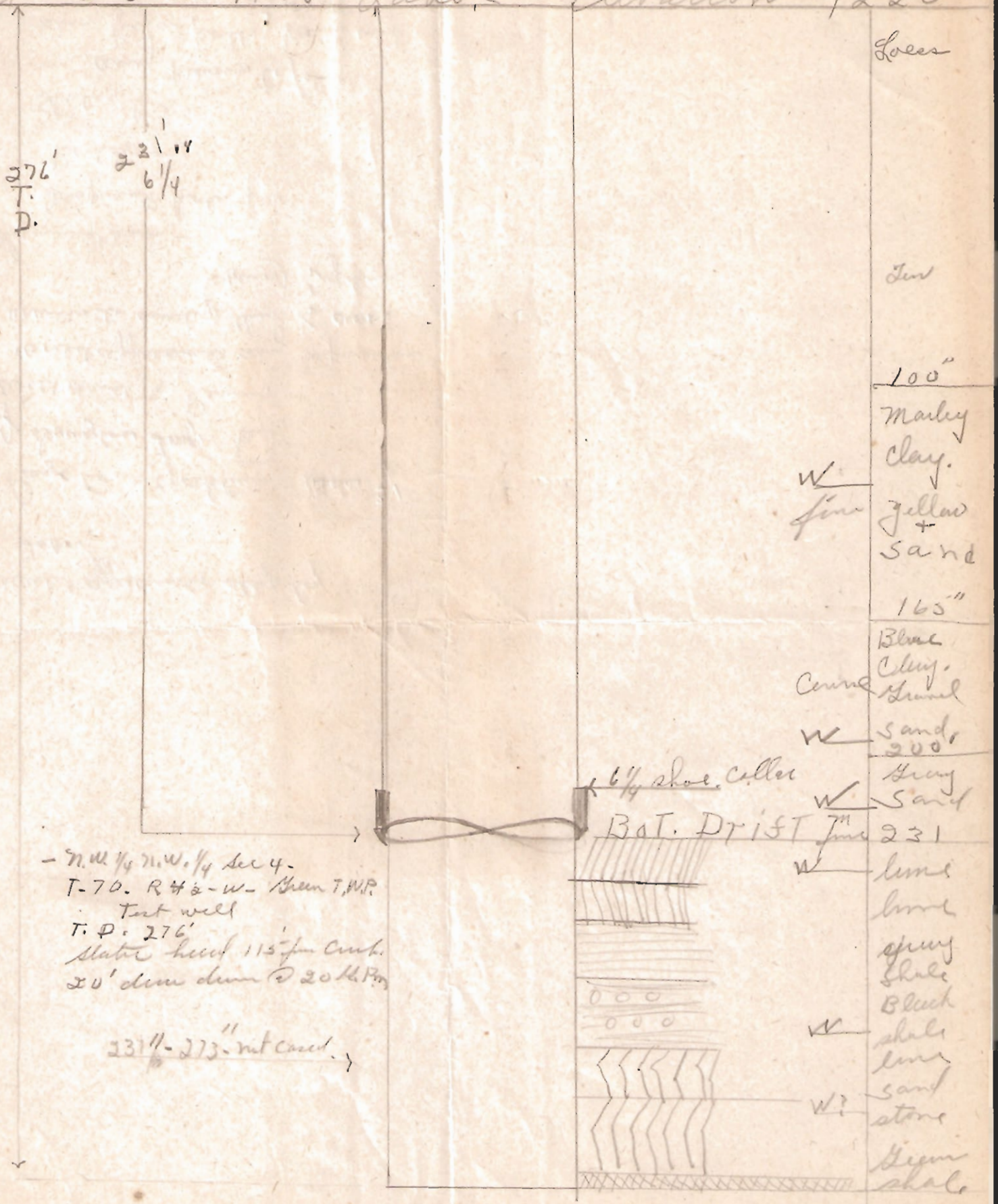
TO: H. G. Hershey
FROM: J. E. Cooper
SUBJECT: Call from driller at Blanchard, Iowa

Rex Lane, water well contractor, Blanchard, Iowa, called this morning in regard to the Town Well at Tabor, Iowa. Lane drilled this well in 1945 to a depth of 276 ft. The well is only producing a few gpm at present and Lane proposes to acidize, treat with Hydrofrax, or shoot well in an effort to restore production. He wanted us to take a look at the samples from the well, particularly the sandstone which occurs between 245-265 feet to see if acid would work on the sandstone. He also wanted a small cut of the samples from bedrock at 231 ft. to 276 ft. TD. We examined these samples and the sandstone is very fine to fine calcium cemented material which breaks down readily in acid.

Lane listed 4 other wells in general area in which sandstone of same type was found. These are: Jones & Clark well near Hastings; Fisher, Ransey, and Merritt Monroe wells near Hamburg. We have samples from Jones & Clark and Monroe wells. Samples appear similar to material in Tabor well, but have not been correllated with the SS in the Tabor well.

Will call Lane this afternoon, tell him that acid worked readily on the sandstone in the samples we have. Also have prepared small cuts of samples which will be mailed to him.

Well "I" 3-21-1945 Taken Elevation 1220+



- N.W. 1/4 N.W. 1/4 Sec 4-
T-70. R 4 2 - W - Green T.W.P.
Test well
T. D. 276'
Static head 115' from Curb.
20' draw down @ 20 M.P.M.

231 1/2 - 273' not cased

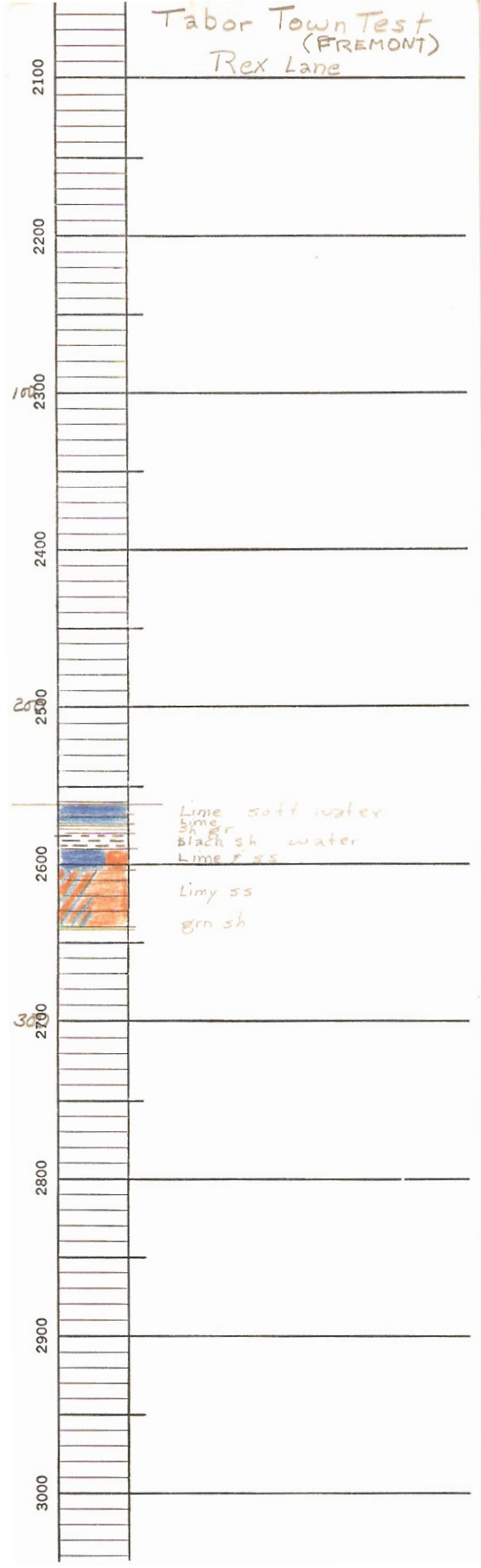
3-21-1945.

Lane Milling Co
Blanchard Iowa

1. Would appreciate stop log.
of Zoar.

2. Page Co. - Yorktown - Sec 31
of Douglas Twp. ☐ -
well drill to Penn.
would appreciate any information
wants to develop this ½ acre
(approx) ½ farm

3. Shenandoah -
Disposal hole for
Radio -
Shale bed.
- any means to filter
water before pulling back into
sand. - Knock silt out
(alum or lime ?)
Land lower flood plain.


Tabor Town Test
(FREMONT)
Rex Lane
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
Lime soft water
lime
sh gr
Black sh water
Lime & ss
Limy ss
grn sh

Blanchard, Iowa,
Feb. 20 - 1945.

Iowa Geological Survey.
Iowa City, Iowa.

FEB 26 1945

Mr. G. H. Hershey.

Dear Sir:

I am mailing under seperate cover sample of water taken from the well we are now drilling at Tabor, Iowa.

This water is from an area between 231 ft. to 270 ft. Base of the drift being 231 ft.

Log shows.

231 - 234'	Lime. Soft water.
234 - 237'	Lime
237' - 240'	Shale. Gray
240' - 245'	Black Shale - water
245' - 252'	Lime and Sand Stone
252' - 270'	Limey Sand Stone
270' - 271'	Green Shale

Would like to know if the analysis shows sample of water to be satisfactory for city use. If so we will complete the well.

Yours Respectfully,
Rex Lane.

February 13, 1945

Mr. Rex Lane
Blanchard, Iowa

Dear Mr. Lane:

We have received your letter of February 10 concerning Tabor and have gathered together such information as we have in the area. Dr. Hershey has asked me to reply for him since he has been called out of town.

The only record we have of a town well at Tabor is one that was in use in 1911. This was a dug well 12 feet in diameter and 114 feet deep. It did not penetrate entirely through the drift and only a small quantity of water was obtainable.

We also have record of a farm well about one and a half miles southwest of town drilled in 1941. Good samples were saved from the surface to the total depth of 230 feet. The drift is 169 feet thick with a good sand between 145 and 169 feet. Apparently this possible source was not satisfactory as it is entirely cased off. Bedrock is shale followed by several limestone beds and from 205 to 229 feet the rock is almost entirely limestone with a few shale breaks. Fifteen gallons per minute of water was obtained from the well.

As you know, Tabor is situated just north of the sharp Thurman structure. It is therefore somewhat difficult to estimate the section to be encountered without more control than we have at the present time. It seems probable that in the farm well mentioned above the producing horizon is Deer Creek limestone. If that is so, the entire Shawnee section should be anticipated at Tabor. In any case the same limestone should be present.

Apparently the glacial sand was either not water-bearing or else considered undependable in the farm well. Nevertheless if it is present at Tabor it would seem worthwhile investigating. The sand was coarse enough to be readily developed if water is present.

We shall be glad to study the samples from the well and suggest that you send us those which you have to date. A complete set should enable us to identify the section with some assurance after 50 to 75 feet of bedrock has been penetrated.

Either Dr. Hershey or I expect to be in the western part of the state in the near future and shall plan to stop at Tabor to see you.

Very truly yours,

SEH:KNB

S. E. Harris, Jr.

Tabor water supply

Never had a satisfactory supply. Large diameter wells have been dug in many places. These yielded only small quantities. In 1925 an impounding reservoir was constructed but it soon silted up. Near the site of the reservoir several wells about 8 feet deep and from 10 to 12 feet in diameter were dug and are ~~now~~ the present source of supply.

Two deep wells have been drilled in the past. One over 300 feet deep yielded little water and was soon abandoned. A second was condemned by the department of health and was never used.

Information from town clerk Mr. Perkins
by S E Davis Jr. Feb 21, 1945

Fremont Co.

IOWA PRESS
CLIPPING BUREAU
Des Moines, Iowa

Nonpareil
Council Bluffs, Iowa

MAR 30 1945

Tabor's New Well Proving Adequate

Special to The Nonpareil.

TABOR—The new town well put down by the Lane Drilling company of Blanchard has been in use for about two weeks and is supplying a good stream of water The well is 276 feet deep, the casing is down 237 feet, where a layer of limestone was struck, and below this a good flow of water. Water is being pumped from the new well about 12 hours per day at the rate of 1,200 gallons per hour. This amount together with lesser amounts from the well uptown and the two weels near the old dam northwest of town gives an adequate supply for the present needs of the town.