

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

H-0186

RECORD OF WELL

Location:

Town: ORANGE CITY (N E) (S W) County SIOUX  
E.  
NE/4 - NW - SE sec. 32 T 95 N., R. 44 W. Holland Twp.


32  
0

Well name and number CITY WELL NO 2 Abandoned

Owner \_\_\_\_\_ Address \_\_\_\_\_

Tenant \_\_\_\_\_ Address \_\_\_\_\_

Located in fire house - abandoned June 1932

Contractor Thorpe Well Co Address \_\_\_\_\_

Drillers \_\_\_\_\_

Drilling dates 1921

Well data:

Elevations: Drilling curb 1431 feet; Land surface feet

1428 - H6H

Determined by W.C. Schulte

Topographic position \_\_\_\_\_

Total depth: Reported 825 feet, Measured feet

Drilling method \_\_\_\_\_

Hole and casing data \_\_\_\_\_

Original depth to water \_\_\_\_\_ above ft. below \_\_\_\_\_ Date \_\_\_\_\_

Original elevation of water level \_\_\_\_\_ ft.; Source of data \_\_\_\_\_

Sources of water: Principal \_\_\_\_\_ ; Others \_\_\_\_\_

## Production data:

AT&amp;T Date \_\_\_\_\_

Static depth to water \_\_\_\_\_ Measuring point \_\_\_\_\_  
 Pumping level \_\_\_\_\_ at \_\_\_\_\_ 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 samples \_\_\_\_\_  
 Sampled by \_\_\_\_\_  
 Total solids \_\_\_\_\_  
 Insoluble matter \_\_\_\_\_  
 Alkalinity (Meo) \_\_\_\_\_  
 Alkalinity (Phn) \_\_\_\_\_  
 pH \_\_\_\_\_  
 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$  \_\_\_\_\_  
 Alkali as sodium \_\_\_\_\_  
 Calcium \_\_\_\_\_  
 Magnesium \_\_\_\_\_  
 Iron (unfiltered) \_\_\_\_\_  
 Manganese \_\_\_\_\_  
 Nitrate \_\_\_\_\_  
 Fluoride \_\_\_\_\_  
 Chloride \_\_\_\_\_  
 Sulfate \_\_\_\_\_  
 Bicarbonate \_\_\_\_\_  
 Hardness (ppm) \_\_\_\_\_  
 Hardness (gpg) \_\_\_\_\_  
 Remarks \_\_\_\_\_

Laboratory data: Sample storage location \_\_\_\_\_  
 Sample range 10-825 No. spls. 82 No. dupls. & cond. \_\_\_\_\_  
 Spls. prepared by Washed range 10-825 by Gulf at Wichita  
 Driller's log and cond. \_\_\_\_\_  
 Insoluble residues: Prepared by Studied by Strip log \_\_\_\_\_  
 Microscopic study 10-825 gulf strip log gulf \_\_\_\_\_  
 Gen. log Correl. by Carnaby \_\_\_\_\_

Orange City, Iowa  
City Deep Well No. 2  
Thorpe Brothers Well Company, contractors  
Drilling completed 1921  
Elevation 1471 feet  
~~1412 - 1428 feet~~ Two

Sioux Co.

PLEISTOCENE (350 feet)

Pleist.  
300'  
CretoWCS  
12/2/39Color  
Colored (100 ft.)

	10	0-10	Clay; gray, brownish; plastic; calcareous; sandy; few granules and small pebbles; subangular to curvilinear; many grains of quartz; few grains of quartzite, limestone, gypsum, basalt(?), biotite, loess concretions. Clay; gray, brownish; calcareous; sandy; coarse; granules and pebbles, few; subangular to curvilinear; quartz predominant detrital mineral; also quartzite, limestone, basalt(?), chert, siltstone, loess concretions. Clay; gray, brownish; sandy; gravelly, granules and small pebbles; angular to curvilinear; quartz, predominant; also quartzite, limestone, basalt(?), gypsum, loess concretions. Clay; brown, gray to buff; calcareous; sandy, 35%+; granules; quartz, predominant; also chert, limestone, gypsum, basalt(?), angular to curvilinear. Sand; gray, brownish; medium to coarse, with granules; clay, little; angular to curvilinear; quartz, predominant; also quartzite, gypsum, basalt(?), chert, limestone, coal. Clay; gray, drab; plastic; sandy, with granules; quartz, quartzite, basalt(?), limestone, loess concretions; angular to curvilinear. Sand; gray, brownish; medium-coarse, small granules to 8-4 mm.; subangular to subround; cement, clay, small amount; quartz, primary constituent, with quartzite, basalt(?), limestone, gypsum, ilmenite, tourmaline; biotite. Clay; gray, brownish; calcareous; sandy, silty, with granules, few; quartz, with some quartzite, basalt(?), limestone, gypsum, biotite, coal, high angular to subround, 30%+. Sand; gray, brownish; granules, few; angular to subangular; quartz primary constituent, with quartzite, limestone, basalt(?), gypsum, biotite. Sand; gray, brownish; medium-coarse; angular to subround; cement, calcareous, small amount; quartz, primary constituent, with quartzite, basalt(?), limestone, pyrite(cubes), an amphibole(?). Clay; gray; calcareous; sandy, medium-coarse, 5%+; sand content of quartz, quartzite, basalt(?), gypsum, limestone, coal. Sand; gray, brownish; medium; friable; angular to low subround; mostly curvilinear; cement, weak, ferruginous and calcareous(?); quartz, primary constituent, with quartzite, limestone, basalt(?), ilmenite, chert, calcite(rhombs), gypsum, tourmaline, muscovite, biotite. Silt; gray-buff; friable; larger grains high subangular to curvilinear; quartz, primary constituent, with quartzite, limestone, basalt(?), muscovite, amphibole(?). Clay; gray; unctuous to silty; compact; thin laminae. Silt; gray-drab; sand and granules, few grains up to 1 cm.; compact; quartz, primary constituent, with limestone, coal, muscovite, glauconite. Clay, gray, drab; calcareous, compact, unctuous; tough; sand and granules, especially at 270-280; grains of quartz, quartzite, coal, limestone, muscovite, garnet, magnetite, with shapes similar to overlying sand. Sand; gray, brownish; friable; medium-coarse; cement, weak, clay-like; high subangular to low subround; quartz, primary constituent, with limestone, muscovite, biotite, amphibole(?), claystone, pyrite, garnet, and glauconite at 360-370. Sand; gray, drab; medium; shaly; cement, weak, clay-like; friable; curvilinear to low subround; quartz, primary constituent, with glauconite, limestone, muscovite, clay. Shale; gray, drab; compact; unctuous; thinly laminated; silty; grains of quartz, gypsum, lignitic fragments, and glauconite at 440-450. Sand; gray-buff; medium-coarse; subangular to curvilinear; cement, calcareous, ferruginous and siliceous in fragments of siltstone; quartz, primary constituent, with limestone, garnet, siltstone fragments. Sand; gray-brownish; medium-coarse; cement, weak, clay-like; mostly curvilinear, concretions of siderite roundish; quartz, primary constituent, with siderite concretions(2-1/2 mm.), and pyrite, chert, muscovite, amphibole(?), coal.
	30	10-40	
	10	40-50	
	10	50-60	
	20	60-80	
	20	80-100	
	20	100-120	
	10	120-130	
	20	130-150	
	10	150-160	
	10	160-170	
	20	170-190	
	20	190-210	
	20	210-230	
	10	230-240	
	20	240-250	
	90	260-350	
	30	350-380	
	10	380-390	
	60	390-450	
	10	450-460	
	40	460-490	
	10	490-500	

10	450-460	Sand; gray-buff; medium-coarse; subangular to curvilinear; cement, calcareous, ferruginous and siliceous in fragments of siltstone; quartz, primary constituent, with limestone, garnet, siltstone fragments.
40	460-490	Sand; gray-brownish; medium-coarse; cement, weak, clay-like; mostly curvilinear, concretions of siderite roundish; quartz, primary constituent, with siderite concretions (2-1/2 mm), and pyrite, chert, muscovite, amphibole(?), coal.
10	490-500	Sand; gray, brownish; medium to coarse with granules; high subangular to low subround; quartz, primary constituent, with siderite, garnet, pyrite, tourmaline.
135	500-635	Sand; gray, light brownish; clean; loose; cement, weak-absent, clay-like; medium-coarse; high subangular to low subround; quartz, primary constituent, with siderite, pyrite, tourmaline, garnet, basalt-like grains (occasional), amphibole(?), coal.
		Sandstone and claystone; brownish, light; compact; cement very effective, siliceous and ferruginous; sand mostly curvilinear; quartz, chiefly.
2	635-637	Sand; brownish, light; medium to coarse; angular to subround; cement, weak to absent, clay-like; quartz, primary constituent, with glauconite, talc-like grains, siderite, limonite, garnet, gypsum, coal, limestone, quartz.
23	637-660	Sand; brownish; medium-coarse; granules; cement, weak, clay-like; clay chips; quartz with siderite, limestone, pyrite, garnet.
10	660-670	Clay; brownish; sandy; tough to unctuous; sand, as above, with clear, clean crystals of quartz.
10	670-680	Sand; brownish; loose; medium; cement, as above; minerals as in 670-680.
5	680-685	Sand; brownish; friable; medium-coarse, granules up to 4 mm; angular to subround; euhedra of quartz and rhombs of siderite; quartz, with siderite concretions and rhombs, quartz crystals, pyrite (tetrahedra and aggregates), coal.
11	685-696	Shale; brown to greenish; compact; unctuous to "gritty", sandy, small amount, similar to overlying sands; non-calcareous.
49	696-745	Sand; gray, brownish, light; loose, friable; medium-coarse; cement, clay, weak to absent; high subangular to low subround; mostly curvilinear; quartz, primary constituent, with siderite (several pellets and rhombs); clay chips (probably lag from overlying beds); note similarity of sand to that at and above 745 in appearance and mineral content.
57	745-802	
23	802-825	

GSA: BIA: USGS: ESDA: LIBRARY: CLOTHES WASH

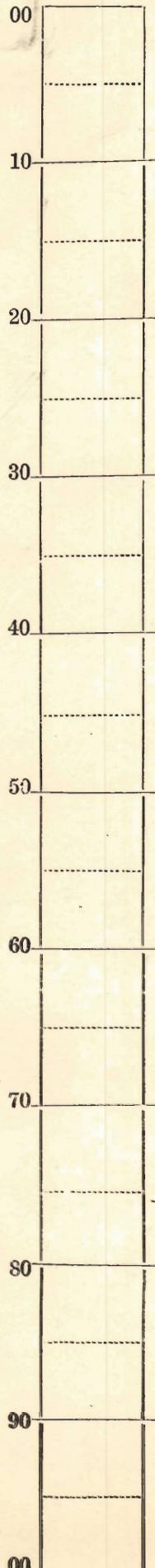
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10 10-10

Sheet No. 1 Name of Well Orange City Well # 2 Survey No. W-0126

Location (Sioux County) Date Drilled Analyst Schultdt

Curb Elev. 1429

No Spole. spoles taken at 10' intervals



10 Drift, Buff, oxidized, sandy, silty, oxidized, strongly calc., Gran. g sm. Pebbles Dolg  
19. mat. pros.

20 Drift, Sim. to spole 10'-20'. 20% H. buff dol., 5% Ig. mat.

30 Drift, sim. to spole 10'-20'. 5% H. buff dol., 5% Ig. mat.

40 Gravel, pebble, clay bound, 50% H. buff dol., 20% Ig., 30% clay.

50 Drift, Buff, oxidized (?), sandy, silty, strongly Calc., with 20% gran. g sm. Pebbles Dolg Ig. Mat.

60 Drift, " " (3), " " " " " " 30% " " " " " "

70 Drift, " " (3), " " " " " " 20% " " " " " "

80 Sand, V. coarse, (MG. 2-1mm, PS 4-2mm & 1-1/2mm), 0 mg, 50% QZ, 25% H. buff dol, 25% Ig.  
1% Gypsum

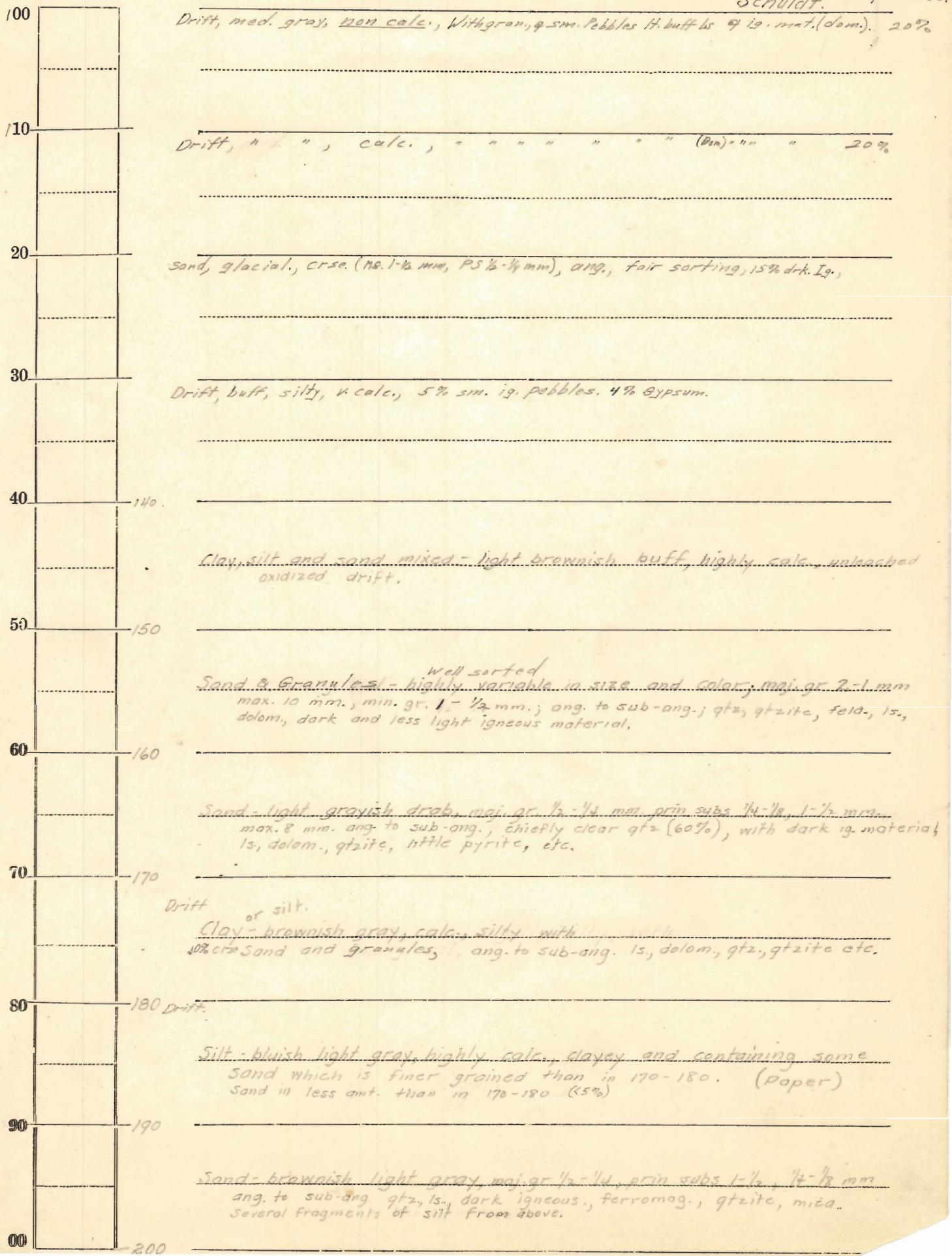
90 Sand, V. coarse, sim. to spole 80'-90'.

00

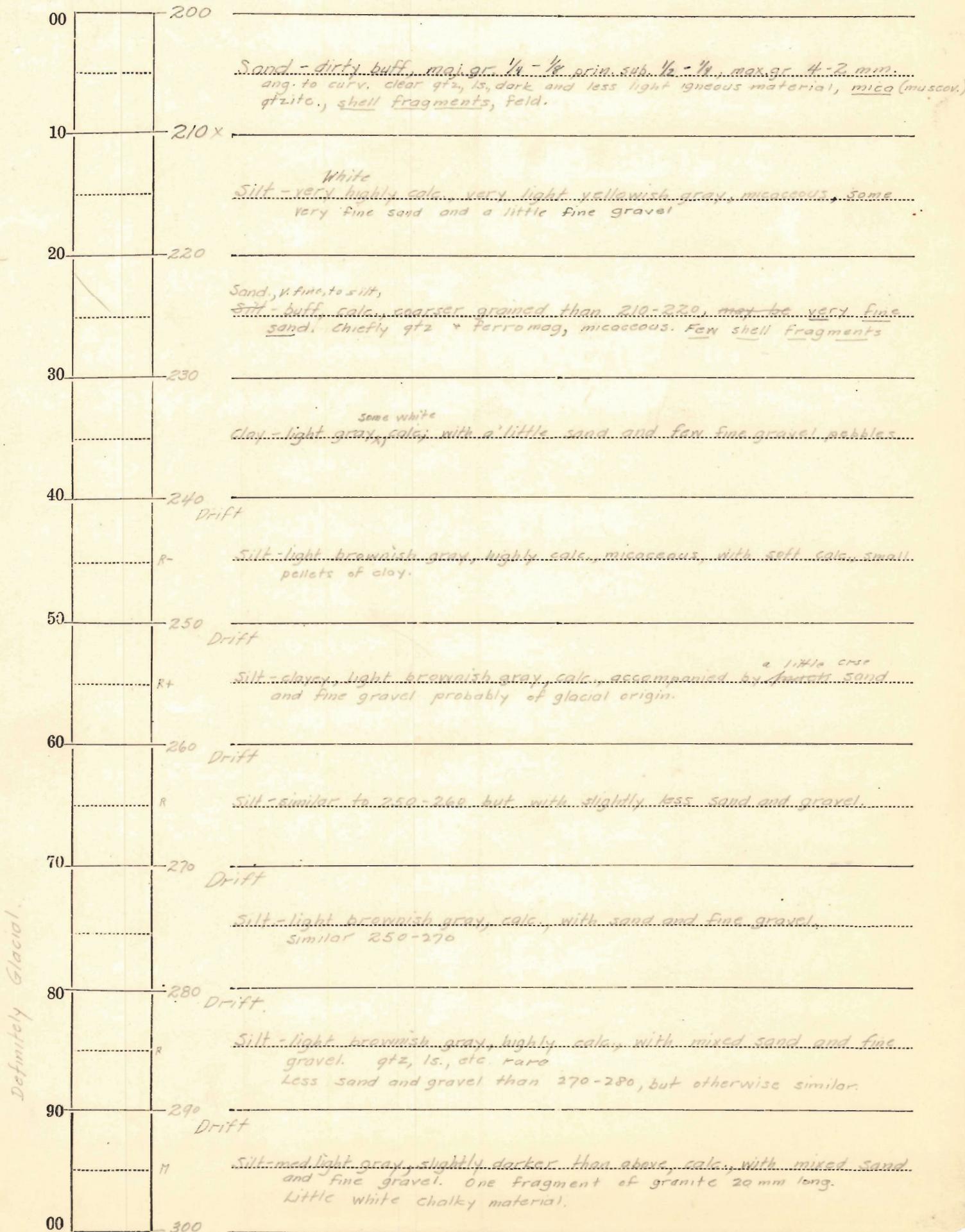
Sheet No. 2 Name of Well Orange City Well No. 2 Survey No. W-0126

Location Orange City, Sioux Co Date Drilled 1921 Analyst Hershey Schultdt Sept. 11 '36.

Must be checked

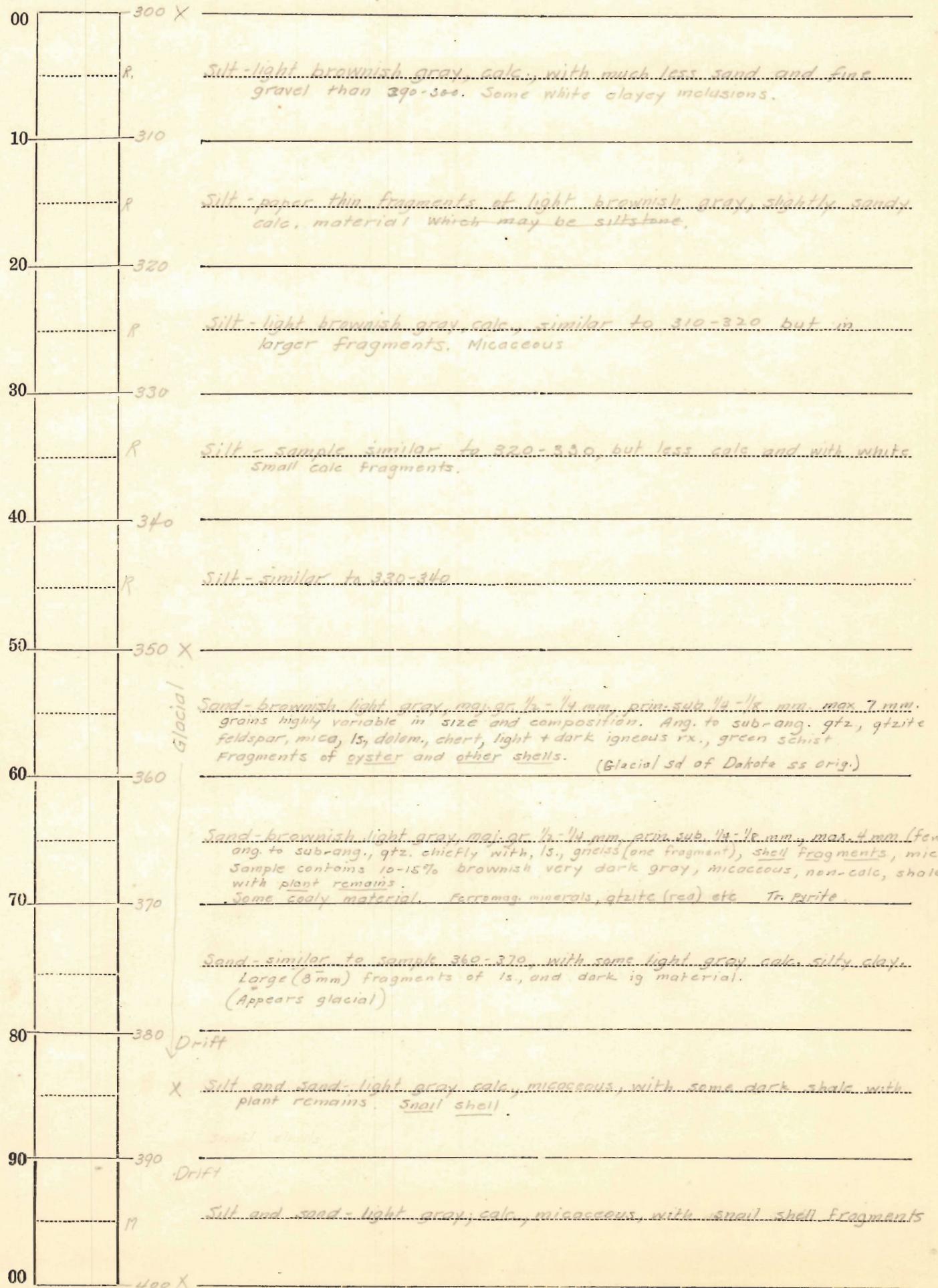


Location Orange City, Sioux Co. Date Drilled 1921 Analyst Hershey



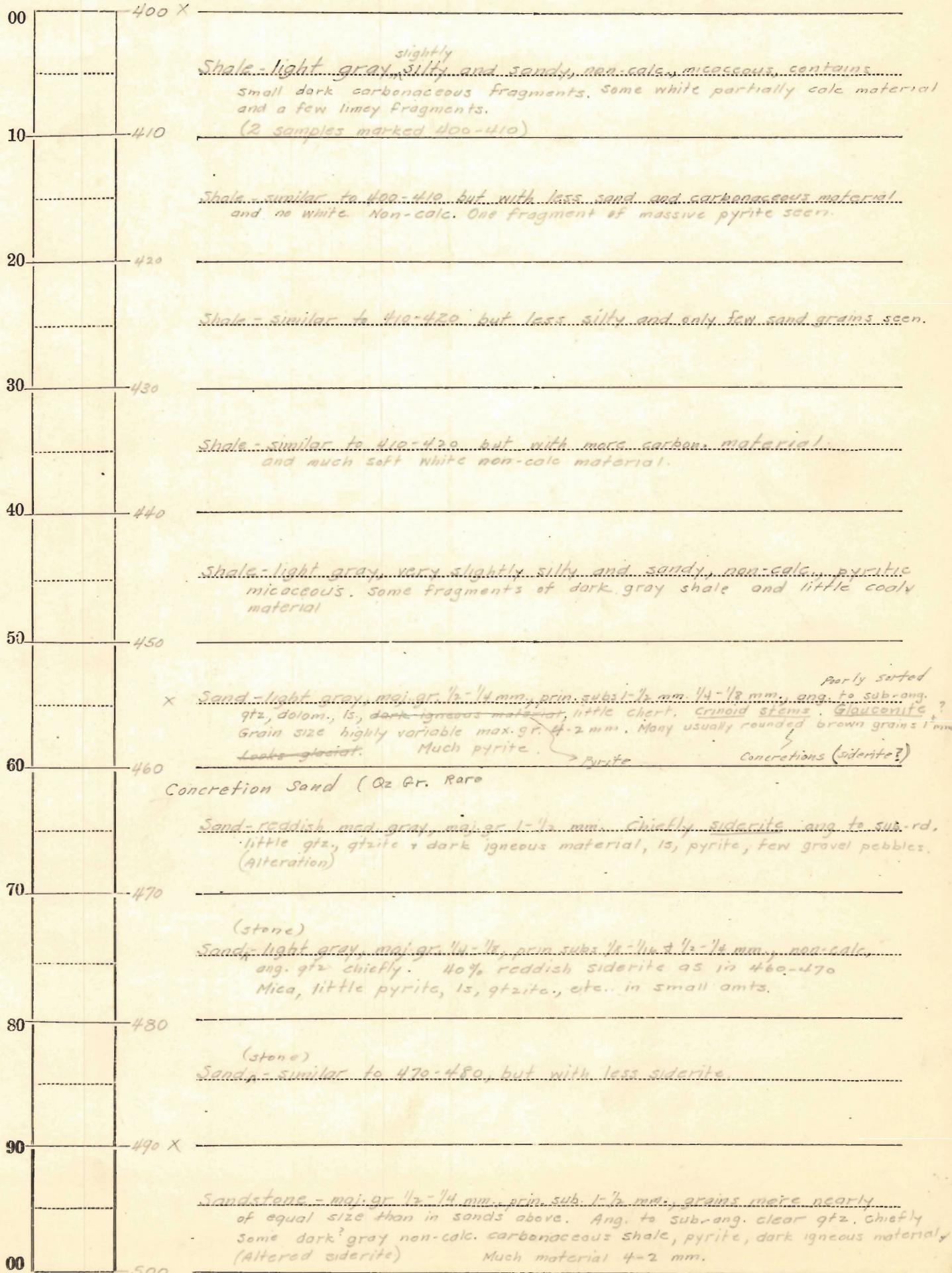
Sheet No. 4 Name of Well Orange City Well No 2 Survey No. W-0126

Location Orange City, Sioux Co Date Drilled 1921 Analyst Hershey



Sheet No. 5 Name of Well Orange City Well No. 2 Survey No. W-0126

Location Orange City, Sioux Co. Date Drilled 1921 Analyst Hershey



Sheet No. 6 Name of Well Orange City Well No. 2 Survey No. W-0126

Location Orange City, Sioux Co. Date Drilled 1921 Analyst Hershey  
schuldt

00	500	Sandstone - major $\frac{1}{2}$ - $\frac{1}{4}$ grn. sub 1- $\frac{1}{2}$ mm. most grains just about $\frac{1}{2}$ mm. ang. to sub-ang clear qtz. Some light orange and yellow. Some larger fragments probably from above. some biconcr. & massive siderite (?) 5%; 3% pyrite micac.
10	510	Sandstone 80% - similar to 500-510 Shale - dark gray, non-calc., gritty, with good shale structure
20	520	Sandstone - maj. gr. $\frac{1}{2}$ - $\frac{1}{4}$ mm., prim-sub. $\frac{1}{4}$ - $\frac{1}{8}$ mm., ang. to sub. ang. clear qtz chiefly,
30	530	Sandstone - major $\frac{1}{2}$ - $\frac{1}{4}$ grn. sub 1- $\frac{1}{2}$ mm., ang. qtz chiefly, micaceous, pyritic Small amt. of gray, non-calc. shale.
40	540	Sandstone and shale - similar to 530-540 but with slight increase in amt. of shale
50	550	ss, q sh. ss H. gray, med gr., ang. to subang, well sorted, frosted, 70%, with 5% grn. gray pyrite, 10% concr. & massive siderite (?). Shale H. gray, homogen., no shaly struct. 15% s. sh.
60	560	Sandstone - major $\frac{1}{2}$ - $\frac{1}{4}$ prim. sub. 1- $\frac{1}{2}$ , $\frac{1}{4}$ - $\frac{1}{8}$ , ang. to sub. ang. well sorted Some coaly fragments. 8% concr.,
70	570	Sandstone - q sh. ss sim. to ss unit 550-560', sh. med. to drk gray, fair shaly struct., non-calc., with small % wh. sh., 1% coalified wood frag. concr., pyrite, etc.
80	580	ss, wh. to H. yell, med. gr. (but finer than above) (M.G. $\frac{1}{2}$ - $\frac{1}{4}$ , P.S. $\frac{1}{4}$ - $\frac{1}{8}$ ), ov. size 4mm, well sorted, clean, < 2% concr. & pyrite.
90		ss, H. buff, med. gr. (M.G. $\frac{1}{2}$ - $\frac{1}{4}$ , P.S. 1- $\frac{1}{2}$ mm), ang. to subang., frosted, < 2% Iron Oxide & pyrite & concr.
00		

Sheet No. 7 Name of Well Orange City Well No 2 Survey No. W-0126

Location Orange City, Sioux Co Date Drilled 1921 Analyst Hershey Schuld

600		ss, H. buff, med.gr. (M.G. 1/2-1", PS 1/4-1/2 mm) angtosubang., slightly frosted, with 7% grn pyritic mat., concr.; H. gray sh, & 1/2" black glossy slag (?). occas. crse Qz gr. 2 splos 600-610' (none 610-620 - Prob. misnumbered - see to 600-620')
610		
620		ss, H. buff, sim. to splo 600-610', sorting only fair. Traces cindery material, less pyrite & concr.
630		ss, sim. to splo. 620-630'
635		
637		ss, sim. to splo 620-630 but strongly dol. cem(?) & claystone, slightly sandy, pink to br. NS. 637-640
640		ss, H. buff, med. to crse. (M.G. 1/2-1", PS 1-1 1/2", poorly sorted, occas. granules, 2% drk grn mat. not Ig. (?) <1% Weath. cht. 1 fass. Traces Ig mat. (Schist & Feldspat gr.)
650		ss, H. buff, sim. to splo 640-650', but with 5% Ig. mat. (drk Ig, Gr, Feld.) & <1% blk. glossy slag (?), micac. sorting fair to poor
660		ss, H. buff, sim. to splo 650-660' <2% Ig (?) mat. sorting poor
670		Cht, Wh, Porc, text., brd. porous, foss., non calc., 1 1/2" frag. Pyrite. (Pyritized fasc (?) ; 30% Coalified wood frag.)
672		
		ss, Wh, crse, (M.G. 1-1 1/2", PS. 2-3mm) Well sorted, angtosubang, some yellowing pink Qz, <2% drk Ig. mat.
680		ss, H. buff, med. gr. (M.G. 1/2-1" mm, PS 1-1 1/2 mm), subang, well sorted, slightly iron stained.
685		Sh, H. green & buff (oxidized) strongly concretionary with occas. crse, sd. gr.
688		
690		Shale, buff, med. sandy,
695		
700		ss, H. buff, crse (M.G. 1-1 1/2 mm, PS. 1/2-1 1/2 mm), subang, to crvt., frosted, 1% Ig. Authigenic Qz, 2% sid. concrt, 2% H. grn. shale(sandy) 1% Iron oxide.

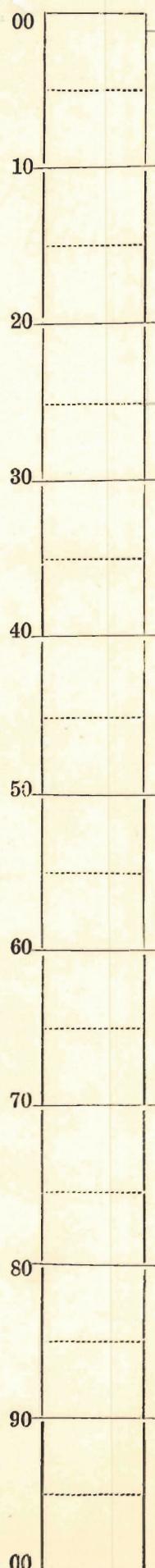
Sheet No. 8 Name of Well Orange City Well No. 2 Survey No. W-0126

Location Orange City Sioux Co Date Drilled 1921 Analyst Hershey

700	700	Sandstone - light pinkish buff; mai.gr $\frac{1}{2}$ - $\frac{1}{4}$ , prin. sub. 1- $\frac{1}{2}$ mm. ang to curv. clear qtz. chiefly; some grains slightly frosted. Small amt of pale green shale and little white chert.
710	710	ss, H. buff, crse, (M.G. 1- $\frac{1}{2}$ , PS $\frac{1}{2}$ - $\frac{1}{4}$ mm), subang., well sorted, slightly clay coated, 5% H. grn. sh., F.O.
720		ss, H. buff, crse to fine, (M.G. 1- $\frac{1}{2}$ mm, PS. $\frac{1}{4}$ - $\frac{1}{2}$ mm), subang., slightly frosted, with 5% massive of concr. siderite (?), Tr. auth. oz.
730		ss H. buff, sim. to sp. e., 5-10% concr.
740	740	Sandstone - mai.gr $\frac{1}{2}$ - $\frac{1}{4}$ mm., prin. sub. 1- $\frac{1}{2}$ mm., ang. to curv. clear qtz. chiefly; frosted in part. 5-10% pale green, sandy, shale. Some white chert and a little dolomitic.
750		shale - red, calc., silty to sandy, compact.
753		
755		
760		
770		
780		shale, drk med. gray, & H. gray, non calc., hrd, H. gray sh. pyritic. 21g. frag blk. sh
790		
800	802	

Sheet No. 9 Name of Well Orange City Well No. 2 Survey No. W-0126

Location Orange City, Sioux Co Date Drilled 1921 Analyst Hershey



Sandstone - light pinkish buff; maj. gr.  $\frac{1}{2}$  -  $\frac{1}{4}$  mm 1- $\frac{1}{2}$  almost equal  
prin subs  $\frac{1}{4}$  -  $\frac{1}{8}$  mm., max 2 mm. <sup>slight</sup> tending to curv. gtz., frosted in part  
Shale 25% - gray, slightly calc., pyritic in part (Glenwood from above  
unctuous

IOWA STATE  
DEPARTMENT OF HEALTH

January 17, 1945

JAN 18 1945

Mr. Cor. Vande Steeg, Mayor  
 Orange City  
 Iowa

Re: Water Supply  
 Orange City, Iowa

Dear Mr. Vande Steeg:

With further reference to augmenting your water supply at Orange City, I have had an opportunity to discuss this matter with Dr. Hershey of the State Geological Survey since writing you on January 5.

Dr. Hershey is definitely of the opinion that another deep well in the Dakota sandstone near your present well would probably tap water of about the same mineral quality as your present well. As stated in my letter of January 5, there appears to be an area of soft water in the Dakota sandstone in the extreme northwestern part of the state and another area to the south of you. However, in the ridge on which Orange City is located, all of the water derived from the Dakota is very highly mineralized. He states that of course there is always a possibility of hitting a freak well which does not conform with the area immediately surrounding; however, such possibility is very remote and due to the cost of test boring at such depth, he would not think it worth while but rather would think that you proceed on the assumption that any water derived from the Dakota sandstone will be similar in quality to water from your present deep well.

With this in mind, I would definitely recommend, and Dr. Hershey concurs, that some test borings be made in the Floyd River Valley to determine the extent and character of the gravel. From the formations encountered in the exploratory drillings, the exact type of well could be determined. Dr. Hershey is of the opinion that you can get wells in this area capable of producing 200 to 250 gallons per minute without excessive drawdown. If this is the case, probably two shallow wells would meet your needs. Since you will be dependent on a single pipe line from the shallow well field to town, it probably would be advisable to keep your deep well pumping equipment intact for emergency fire use. I believe that the Insurance Inspection Bureau would insist on either keeping the deep well intact or a fairly large storage in the city. This, however, can be checked in detail with the Iowa Insurance Inspection Bureau.

If there is any other information which I might get for you, please let me know.

Very truly yours,

A. H. Vieters, Director  
 Division of Public Health Engineering

AHW/mm

Copy to Dr. H. G. Hershey ✓  
 \* \* Mr. J. L. Stober

Allen F. Agnew

8/23/46

## ORANGE CITY #2

Between 755 and 825 (T.D.) feet considerable green shale is encountered. Is it Ordovician? If so, what formations?

There is a 2' weathered red zone from 753-755. Not necessarily the base of the Cretaceous.

Spl 755-802, 1 sample, showed dull gray & black blocky to subfissile shale with abundant carbonaceous plant material  
Spl 802-825, 1 sample, showed fine to coarse, angular quartz sand similar to the above, except the sand in this sample is frosted. There is 20% green pebbly shale sandy with fine quartz and some pinkish arkosic sand.

Sample	Allen Agnew	A.G. Unklesbay	Parker	(Ethylmae Schulz) Bubs
1.) 755-802	Penn	K	Kind.	Kind.
2.) 802-825	Dev.	Miss	Dev	Dev.

Agnew says #1 is either Penn. or K, picks Penn arbitrarily  
Unk " " " " " " " " " " K because  
nearest Penn is 100 mi. SE

Mary & Bubs say #1 is Kinderhook; Agnew & Unk didn't know that there was that much carbonaceous and lignitic

matter in the Kinderhook. It, like Agnew's Penn., would have to be an outlier.

Agnew, Marry, and Bubs say that #2 looks like Devonian sandy shale; Unk says Mississippian. In either case, it would have to be an outlier.

General statements:

Neither shale is micaceous — Penn. & K. are micac.  
Hull City well, 15 mi. N., shows a K, with a lower gray shale, lying directly on Pre-Cambrian.

Devonian at West Bend, 75 mi. E., and Sioux City, 35 mi. SW, is a dolomite

Absolutely not Ordovician, as Carmody calls it.

Most

Most probable conclusion:

All Cretaceous



035-44W-32 d bae

Well Number 43,00,10 N S 096,03,48-1

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD		Physiographic Province:	CENTRAL LOWLAND	12	Section:	DISSECTED	
		Drainage Basin:	FLOYD	368	Subbasin:		
Top of (D)		(F)	(H)	(S)	(T)	(V)	
Well site: local depression, flat surface, hilltop, hillside, terrace, valley flat,							
MAJOR AQUIFER:		system	series	38	39	aquifer, formation, group	
Lithology:			Origin:		34	Aquifer Thickness:	ft
Length of well open to:		52	53	54	55	Depth to top of:	ft
MINOR AQUIFER:		system	series	44	45	aquifer, formation, group	46
Lithology:			Origin:		56	Aquifer Thickness:	ft
Length of well open to:		51	52	53	54	Depth to top of:	ft
Intervals Screened:							
Depth to consolidated rock:		APPROX 350	ft	350	Source of data:		68
Depth to basement:		ft			Source of data:		69
Surficial material:		SANDY TILL	T	68	Infiltration characteristics:		70
Coefficient trans:		ft/d			Coefficient Storage:		71
Coefficient Perm:		gpd/ft <sup>2</sup>	Spec cap:		gpm/ft	Number of geologic cards:	

Note: well reportedly dismantled 6/32

## Geology (unstoppable)

## Pleistocene drift

Cretaceous, silt, sand,  
and shale

## Paleozoic

### Undifferentiated sand

0-350'

350-695

46

... sand 802 - 825'

32

GPO 844-72

