

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

W-0075

RECORD OF WELL

Location:

Town: Mason City (N E)
(S W); County Cerro Gordo
C NW 1/4 NE SW sec. 3 T. 96 N., R. 20 W. Mason Twp.

	3	

Well name and number City Well #7

Owner City of Mason City Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co. Address Des Moines

Drillers B.M. Bergeson

Reconditioned
Drilling dates Aug 2, 1933 to Jan 10, 1934

Well data:

Elevations: Drilling curb 1097.6 feet; Land surface _____ feet

Determined by _____

Topographic position upland slope

Total depth: Reported _____ feet, Measured 1230 feet

Drilling method _____

Hole and casing data 94'10" of 20" steel pipe, 0-94'10" for take-up steel shoe
(Give amount, size, kind, and depth of all casing; type and
on bottom) 144' of 12" Reading puddled iron pipe from 614' to
position of seals and packers; cementing; how finished--perforated pipe, screen,
757' (1' for take-up steel shoe top & bottom 20" pipe cemented
gravel pack, open hole, etc.)
in 26" hole to 94', 19" hole to 446', 16" hole to 752', 12" hole
to 1230

Original depth to water 151 ^{above} ft. below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal St. Peter & Jordan; Others _____

Production data: _____ Date _____
 Static depth to water 151 Measuring point Corb
 Pumping level _____ at _____ g.p.m.

 Specific capacity _____ g.p.m. per ft. drawdown; Temperature _____ °F.
 Pump data; Type pump Turbine Column Dia. _____ Length _____
 Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____
 Power Electricity (60 H.P.) Airline _____
 Estimated rate of production: _____ g.p.m. for _____ hrs. a day
 Use of water Public Supply

WATER ANALYSES (in parts per million)

Date sampled	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ + Al ₂ 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 0-860 No. spls. 82 No. dupls. & cond. 34 F
 Spls. prepared by _____ Washed range _____ by _____
 Driller's log and cond. _____
 Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
 Microscopic study _____ strip log 4-42
 Gen. log _____ Correl. by _____

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

WELL NO 096-20W-03CAB CO CERRILLO GORDON
OWNER CITY WELL #7 ADDRESS MASON CITY
DRILLER THORPE BROS. DATE DRD 1-10-1934
MAP _____
SOURCE OF DATA FILE
DESCRIPTION M. P. LSD FEET (ABOVE)
(BELOW) LSD

CONTINUED FROM ABOVE	ACCURACY	LOCAL WELL NUMBER														LOCAL USE										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	CANNON DESIGN																							
		T		R	E	SEC.	QUARTERS				W-NUMBER				OPTIONAL																																															
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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
		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																									

[illegible][illegible]

20" FRØM 0-94
12" FRØM 614-757

PUNCHED BY Hesum DATE 12-21-72

VERIFIED BY _____ DATE _____

SKETCH ON REVERSE: YES _____ NO _____

03

WELL NO. 096-20-36CAB

Mason City, Cerro Gordo County

City Well No. 7

Water Levels

Date	Time	Water Level by Elect. Equip	Interval		Total		Prod. in G.P.M. from Wier	Elev. of Water Level	Remarks
			Change	Eapsed Time	Change	Eapsed Time			
		old figures							
Oct. 9, 1937	8:30 p.	223'0"	2" dd	5					See No. 10. for same date.
	8:35 p.	223'2"	5" dd	10	2"				
	8:45	223'7"	0"	1	7"				No 9 off at 8:45 pm
	8:46	223'7"	1" rec	1	0				
	8:47	223'6"	2"	1	1				
	8:48	223'4"	1"	1	3				
	8:49	223'3"	2"	1	4				
	8:50	223'1"	4"	5	6				
	8:55	222'9"	2"	15	10				
	9:05	222'1"	25'3" rec	2	1'6"				
	9:07	196'10"	3'3" rel.	1	24'9"				No. 7 off at 9:06 pm.
	9:08	200'1"	6" rec	1	23'6"				
	9:09	199'7"	4"	1	24'0"				
	9:10	199'3"	1'4"	5	24'4"				
	9:15	197'11"	1'6"	5	25'8"				
	9:20	196'11"	6'4"	35	26'8"				
	9:55	190'7"	1'3"	15	33'0"				No. 10 off at 9:35 pm
	10:05	189'4"	2'1"	25	34'3"				
	10:30	187'3"	11"	15	36'4"				
	10:45	186'4"	1'4"	25	37'3"				
	11:10 p.	185'0"			38'7"				
Oct. 10, 1937	7:15 a	175'2"	9'10"						Decker No 3 off at 6:00 am.
			8 1/2"	15	48'5"				
	7:30	174'5 1/2"	7 1/2"	15	49'1 1/2"				
	7:45	173'10"	11	30	49'9"				
	8:15	172'11"	10	15	50'8"				
	8:45	172'1"	8 1/2" rec	30	51'6"				
	9:15	171'4 1/2"	4'6 1/2" dd	30	52'2 1/2"				
	9:45	174'11"			47'8"				No. 10 on at 9:30
	4:05	179'8"	4'9"						No. 7 on at 4:05
	4:06	198'6"	18'10"	1	18'10"				
	4:07	201'7"	3'1"	1	21'11"				
	4:08	203'4"	1'8"	1	23'7"				
	4:09	204'4"	1'1"	1	24'8"				
	4:10	205'6"	2"	1	25'4"				
	4:15	206'10"	1'10"	5	25'4"				
	4:20	208'1"	1'3"	5	27'2"				
	4:30	208'8"	10"	10	28'5"	15 90			Production = Combined prod of 109
	4:30	208'8"	6' rec	15	29'3"	15 95			
	4:45	208'5"	1'3"	20	28'9"	15 90			
	5:05	209'8"	1"	20	30'0"	15 75			
	5:25	209'9"	2"	10	30'1"				
	5:35	209'11"	3' rec	15	30'3"	15 70			
	5:50	209'8"	16" dd	15	30'0"				
6:05	210'6"	3 1/2" dd.	20	30'10"					
6:35	210'9 1/2"			31' 1 1/2"					

Mason City, Cerro Gordo County

2

City Well No. 7

Water Levels

Date	Time	Water Level by Elect Appar	Interval		Total		Prod in G.P.M. from Wier	Elev of Water Level	Remarks
			Change	Elapsed Time	Change	Elapsed Time Hrs Min			
Oct. 17, 1937	2:35 p	165' 0"	20' 8"	1					230' inst.
	2:36	185' 8"	3' 3"	1	20' 8"	1			See sheets on No 7 & 10 for Oct. 16-17.
	2:37	188' 11"	1' 9"	1	23' 11"	2			No. 7 on at 2:35
	2:38	190' 8"	11"	1	25' 8"	3			
	2:39	191' 7"	8"	1	26' 7"	4			
	2:40	192' 3"	6"	1	27' 3"	5			
	2:41	192' 9"	7"	2	27' 9"	6			
	2:43	193' 4"	6"	2	28' 4"	8			
	2:45	193' 10"	8 1/2"	5	28' 10"	10			
	2:50	194' 6 1/2"	6 1/2"	5	29' 6 1/2"	15			
	2:55	195' 1"	8"	5	30' 1"	20			
	3:00	195' 9"	4"	5	30' 9"	25			
	3:05	196' 1"	8 1/2"	15	31' 1"	30	780		
	3:20	196' 9 1/2"	1' 1 1/2"	15	31' 9 1/2"	45	780		
	3:25	197' 11"	3"	15	32' 11"	60	795		
	3:50	198' 2"	1 1/2"	15	33' 2"	1 15	772		
	4:05	198' 3 1/2"	1 1/2"	15	33' 3 1/2"	1 30	790		
	4:20	198' 4"	2 1/2"	15	33' 4"	1 45	802		
	4:35	198' 6 1/2"	8 1/2"	15	33' 6 1/2"	2	780		
	4:50	199' 3"	(2 1/2)	15	34' 3"	2 15	795		
	5:05	199' 5 1/2"	0	15	34' 5 1/2"	2 30	772		
	5:20	199' 5 1/2"	10 1/2"	15	34' 6 1/2"	2 45			
	5:35 p	199' 11"			34' 11"	3-00			
Oct. 18, 1937	5:58 a.	209' 7 1/2"	10' 3 1/2"						
	6:15 a	209' 8"	1/2"						
	6:25 a	209' 3 1/2"	(4 1/2)						

Mason City, Cerro Gordo County

City Well No. 7

Water Levels

5

Date	Time	Water Level by Elect Appar	Change All Recovery	Elapsed Time	Change	Elapsed Time
Oct. 24, 1937	10:25 a.	179 169' 11"	0			
	10:27	169' 11"	0			
	10:30	169' 11"				
	10:31	170' 9 1/2"	1 1/2			
	10:32	170' 7"	2 1/2			
	10:33	170' 4 1/2"	2 1/2			
	10:34	170' 2 1/2"	2			
	10:35	170' 0 1/2"	2			
	10:36	170' 9 1/2"	3			
	10:37	170' 7 1/2"	2			
	10:38	170' 6"	1 1/2			
	10:39	170' 4 1/2"	1 1/2			
	10:40	170' 3"	7"			
	10:45	170' 8"	2"			
	10:50	170' 6"	9 1/2			
	11:55	170' 8 1/2"	10			
	11:00	170' 10 1/2"	10			
	11:05	170' 10 1/2"	9 1/2			
	11:10	170' 13"	8			
	11:15	170' 7"	8 ✓			
	11:20	172' 11"	6 1/2			
	11:25	172' 4 1/2"	6 1/2			
	11:30	172' 10"	1' 5"			
	11:45	170' 5"	1' 2"			
	12:00	169' 3"	1' 0 1/2			
	12:15	168' 2 1/2"	10			
	12:30	167' 4"	9			
	12:45	166' 6"	8 1/2			
	1:00	165' 9"	8			
	1:15	165' 1 1/2"	7			
	1:30	164' 5 1/2"	5 1/2			
	1:45	163' 10 1/2"	1' 11 1/2"			
	2:00	163' 5"	1' 6 1/2"			
	3:00	161' 6 1/2"	0 1/2			
	4:55	158' 11"	1 1/2			
	4:58	158' 10 1/2"	0			
	5:00	158' 10"	1/2			
	5:01	158' 10"	0			
	5:02	158' 9 1/2"	1/2			
	5:03	158' 9 1/2"	1/4			
	5:04	158' 9"	1/4			
	5:05	158' 8 3/4"	1/4			
	5:06	158' 8 1/2"	1/4			
	5:07	158' 8 1/4"	0			
	5:08	158' 8"	1/4			
	5:09	158' 8"	1/4			
	5:10	158' 7 3/4"	1/4			
	5:11	158' 7 1/2"	1/4			
	5:12	158' 7 1/4"	1/4			
	5:13	158' 7"	0			
	5:14	158' 6 3/4"	1/4			
	5:15	158' 6 1/4"	0			
	5:16	158' 6 1/2"	1/4			

Mason City, Cerro Gordo County

City Well No. 7

Water Levels

Date	Time	Water Level by Elect. Appar	Interval		Total		Prod in G.P.M	Elev. of Water Level
			Change	Elapsed Time	Change	Elapsed Time		
Oct. 24, 1937	5:18	158' 6"						
	5:19	158' 5 3/4"						
	5:20	158' 5 1/2"						
	5:21	158' 5 1/4"						
	5:22	158' 5"						
	5:23	158' 4 3/4"						
	5:24	158' 4 1/2"						
	5:25	158' 4 1/4"						
	5:40	158' 1 1/2"						
	6:00	157' 9 1/2"						
	6:15	157' 6 1/2"						
	7:00	156' 10 1/4"						
	7:14	156' 8"						
	7:15	156' 7 3/4"						
	7:16	156' 7 1/2"						
	7:17	156' 7 1/4"						
	7:18	156' 7 1/4"						
	7:19	156' 7"						
	7:20	156' 6 3/4"						
	7:21	156' 7"						
	7:22	156' 7"						
	7:23	156' 7 1/4"						
	7:24	156' 5 1/4"						
	7:25	156' 9"						
	7:26	156' 9 3/4"						
	7:27	156' 10 1/2"						
	7:28	156' 11"						
	7:29	156' 11 3/4"						
	7:30	157' 0 1/2"						
	7:31	157' 1 1/4"						
	7:32	157' 2"						
	7:33	157' 2 3/4"						
	7:34	157' 3 1/4"						
	7:35	157' 4"						
	7:40	157' 6 3/4"						
	7:45	157' 9 1/2"						
	8:00	158' 3 1/4"						
	8:01	158' 4 1/2"						
	8:02	158' 6 3/4"						
	8:02	158' 9"						
	8:02	158' 11"						
	8:05	159' 0 3/4"						
	8:06	159' 2 1/2"						
	8:07	159' 3 3/4"						
	8:08	159' 5"						
	8:09	159' 6 1/4"						
	8:10	159' 7 1/2"						
	8:15	160' 0"						
	8:20	160' 3 1/4"						
	8:25	160' 6 1/2"						

TOWN: Mason City COUNTY Cerro GordoLOCATION: ^{Center} NW 1/4 NE 1/4 SW 1/4 Sec. 3 T. 96 N., R. 20 W. Mason Twp.OWNER OF WELL: City of Mason City Map Reference No. 7
Well. No. 7USE OF WATER: City Supply (); Private-Domestic (); Public Drinking ()
Livestock (); Industrial (); School Supply (); Cooling
or Air Conditioning ();CONSTRUCTION OF WELL: Drilled (X); Gravel-Pack type (); Driven ();
Dug (); Bored ();CONTRACTOR: Thorpe Bros Well Co., Des Moines DATE ^{Reconditioned} ~~Drilled~~ Aug. 2, 1933, Jan 10, 1934
B.M. Bergeson, drillerCASING OR CURBING DATA: (Show by diagram on opposite side of sheet the
length and depth of top and bottom of each size of pipe, the amount
of overlaps, position of seals or packers, pipe perforation and
screens, etc.) 94' 10" of 20" steel pipe from surface to 94' 10" for take up, steel shoe on bottom
144' of 12" Reading puddled iron pipe from 614' to 757' (1' for take
steel shoe top & bottom) [From Thorpes Rept.] overWELL DATA:
Curb Elevation ^{1097.6} 1097. Ft. Present — Ft. Final 1230 (T) Ft.
Depth — DepthTopographic Position of Well: Watered slope (1)Static Level (Depth to Water (Above) Curb) 151 Ft. Pumping — Ft.
(Below) LevelAmount of Drawdown — ft. pumping at — g.p.m. in — hours
— minutes. Calculated gals. per ft. drawdown — g.p.m.Capacity of well — g.p.m. at — ft. drawdown.Type of Pump American turbine <sup>Head 167
GPM 1000
R.P.M. 1750</sup> Power Electricity (60 H.P.)Depth of Bottom of Pump ^{22 - 10' 10" to 42} 225 (10") ft. with 20 ft. of suction pipe.TEMPERATURE: Air — °F.; Water — °F., measured at —
Time — (A.M.)
(P.M.)SOURCE OF WATER: Recent (Type and Depth) —Glacial Formations (Type) — at — ft. to — ft.Limestone or (Age) — at — ft. to — ft.
DolomiteSandstone (Age) Ordovician ⁷⁵³ Cambrian at 1147 ft. to 813 1224 ft.Principal Producing Formation St. Peter & JordanREMARKS: (1/4" airline bottom at 245')Sample taken for: Mineral Analysis (); Sanitary Analysis ().
Data Collected by —; Date — 193—.
Report Analysis to A. C. Tester, Iowa Geological Survey, Iowa City.

Report Analysis to A. C. Foster, Iowa Geological Survey, Iowa City.
Data Collected by _____ Date _____
Samples taken for: Mineral Analysis () ; Sedimentary Analysis () .

THORPE BROTHERS WELL COMPANY

2340 Sixth Avenue
DES MOINES, IOWA

Drilled for Mason City Water Works at Mason City, Iowa

Drilling started August 2nd, 19 33 Completed Jan. 10th, 19 34

Well No. 7 Kind of Well Drilled Depth 1230' Size hole started 26 in.

Finish 12" G. P. M. Static head 151' Drawdown

Water was first encountered at in Approximate Amount

Remarks 26" hole to 94'; 19" hole to 446'; 16" hole to 757'; 12" hole to 1230';
20" pipe cemented in.

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
20"	94' 10"	94'	Surface	Steel pipe		
	(10" for take up steel shoe on bottom)					
12"	144'	757'	614'	Reading Puddled Iron Pipe		
	(1' for take up Steel shoe top and bottom)					

Driller B. M. Bergeson From Surface to 1230 feet

Driller From feet to feet

Driller From feet to feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION	TOTAL DEPTH FEET
5	Fill & Gravel	5
86	Limestone with streaks of shale	91
582	Limestone	673
56	Shale	729
12	Limestone	741
7	Shale	748
5	Limestone (very hard)	753
60	St. Peter Sandstone	813

1

at Mason City, Iowa

<u>Well No.</u>	7	<u>Kind of Well</u>	Drilled	<u>Depth</u>	1230'	<u>Size hole started</u>	26"
<u>Finish</u>	12"	<u>Static head</u>	151'				
<u>Remarks</u>	26" hole to 94'-19" hole to 446'-16" hole to 757'-12" hole to 1230'-30" pipe cemented in.						

Size pipe	Amount of pipe	Depth to Bottom of pipe	Depth to Top of pipe	Make of pipe
20"	94'10"	Steel shoe on bottom 94'	Surface	Steel pipe
12"	144'	Steel shoe top & bottom 757'	614'	Heading

<u>Amount in feet</u>	<u>Kind of Soil or Formation</u>	<u>Total depth feet</u>
5'	Fill and gravel	5
86	Limestone with streaks of shale	91
582	Limestone	673
56	Shale	729
12	Limestone	741
7	Shale	748
5	Limestone - very hard	753
60	St. Peter Sandstone	813
109	Limestone	922
49	Dolomite (very hard)	971
176	Limestone	1147
77	Jordan Sandstone	1224
6	Limestone	1230

Elec. turbine installed 1934

Mason City, Cerro Gordo County

City Well No. 7

Subject: Water levels, 1937

Elev. of point of reference = 1097' 8 1/2"
2' 3 7

Sept. 11

City Well No. 10 pumping, Nos. 1, 8 & 9 resting. Decker Nos 2 & 3 pumping. Hermanson pumping

pm. 5:30 191' 2 1/2"

Sept. 12

City well Nos. 1 & 10 pumping, Nos. 9 & 8 resting, Decker No 2 pumping, No 3. resting, Hermanson rest.
Well No. 1 started at 1:00 pm, No. 10 pumping over 24 hrs.

Time	Water Level	Interval		Total		Prod	Elev
		D'down	Time Eapsed	D'down	Time		
pm. 2:55	211' 11 1/2"	8"	15		Hrs Min		885' 9"
3:10	212' 7 1/2"	2 1/2"	15	8"	15		
3:25	212' 10"	2 1/2"	15	10 1/2"	30		
3:40	213' 0 1/2"	2 1/2"	20	1' 1"	45		
4:00	213' 3"	3 1/2"	15	1' 3 1/2"	1-5		
4:15	213' 6 1/2"	2 rec	15	1' 7"	1-20		
4:30	213' 4 1/2"	1 1/2"	4	1' 5"	1-35		
4:34	213' 6"	1	11	1' 6 1/2"	1-39		
4:45	213' 7"	1 rec.	15	1' 7 1/2"	1-50		884' 1 1/2"
5:00	213' 6"			1' 6 1/2"	2-05		884' 2 1/2"

Notes: 3 hrs 45 min. after No. 7 started pumping it had apparently reached pumping level under the above set-up.