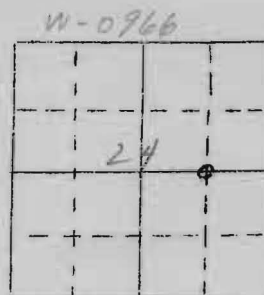


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

RECORD OF WELL

Location:

Town: Thornton (N E)
(S W); County Cerro Gordo
C. N. L. SE sec. 24 T. 94 N., R. 22 W. Grimes Twp.



Well name and number Town Well

Owner _____ Address _____

Tenant _____ Address _____

Contractor Layne Western Address Omaha, Neb.

Drillers _____

Drilling dates Winter 1938-39

Well data:

Elevations: Drilling curb 1191± feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported _____ feet, Measured 290 feet

Drilling method _____

Hole and casing data 100' of 8" I.D. steel drive pipe from 0-100' 8" hole from 100'-290'. 174' 9" of 1 1/2" I.D. steel pipe 115' to 290' perforated from 135' to 142' from 270'-282' gravel pack, open hole, etc.)
(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 _____ ft. above _____ ft. below _____ Date _____

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

Sources of water: Principal _____; Others _____

Production data: Date _____

Static depth to water 11 Measuring point _____

Pumping level 104 at 38 g.p.m.

115 50

119 60

122 68

Specific capacity _____ g.p.m. per ft. drawdown; Temperature 49.1 °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	<u>Feb 4, 1939</u>	_____	_____	_____
Sampled by	<u>Poston</u>	_____	_____	_____
Total solids	<u>374</u>	_____	_____	_____
Insoluble matter	<u>21.6</u>	_____	_____	_____
Alkalinity (Meo)	<u>404.0</u>	_____	_____	_____
Alkalinity (Phn)	<u>2.0</u>	_____	_____	_____
pH	<u>6.9</u>	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ + Al ₂ O ₃	<u>6.8</u>	_____	_____	_____
Alkali as sodium	<u>38.0</u>	_____	_____	_____
Calcium	<u>85.8</u>	_____	_____	_____
Magnesium	<u>31.4</u>	_____	_____	_____
Iron (unfiltered)	<u>0.1</u>	_____	_____	_____
Manganese	<u>Trace</u>	_____	_____	_____
Nitrate	<u>0.00</u>	_____	_____	_____
Fluoride	<u>1.8</u>	_____	_____	_____
Chloride	<u>10.0</u>	_____	_____	_____
Sulfate	<u>14.8</u>	_____	_____	_____
Bicarbonate	<u>492.9</u>	_____	_____	_____
Hardness (ppm)	<u>334</u>	_____	_____	_____
Hardness (gpg)	<u>19.5</u>	_____	_____	_____
Remarks	_____			

Laboratory data: Sample storage location _____

Sample range _____ No. spls. _____ No. dupls. & cond. _____

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study _____ strip log Carver

Gen. log _____ Correl. by _____

9-26-69
RP 11-22-70

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	2	5	6	3	5	N	0	9	3	2	2	5	9	1

WELL SCHEDULE

US GEOLOGICAL SURVEY

IOWA DISTRICT WRD

WELL NO 094-22W-24DABB CO CERRIL GARDEN
OWNER CITY ADDRESS THORNTON
DRILLER LAYNE-WESTERN CO. DATE DRLD 2-1939
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	CAGE NO																							
		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
2	0	9	4	2	2	W	2	4	D	A	B	B			0	0	9	6	6	/	1	3	9	C	I	T	Y						T	H	Ø	R	M	T	Ø	N						P	H	W	I	Ø			C	I			G	A		

WELL-DESCRIPTION CARD - B

[illegible]

HYDROGEOLOGIC CARD - C

[illegible]

CASING AND SCREEN (SIZE, TYPE, INTERVALS):

8" STEEL DRIVE PIPE 0-100'; 6" STEEL PIPE
FROM 115'3" - 290' WHICH IS PERFORATED
FROM 135' - 147' AND 270' - 282'.

CODED BY Nepum SD DATE 12-14-72

PUNCHED BY _____ DATE _____

VERIFIED BY _____ DATE _____

SKETCH ON REVERSE: YES _____ NO _____

24

WELL NO 094-22W-24 DAB6