

W-13409

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

W13409

Location:

new location topo map PSH
Town: OLON (NE)
change quarters to SE NE (SW) County JOHNSON (E)
sec. 32 T. 8 N., R. 6 (W) Twp.

Well name and number

Owner S.U.I. RECREATION AREA Address

Tenant Address

Contractor HOEG & AMES, INC. Address LINCOLN, IOWA

Drillers

Drilling dates ERVOL FINK

Well data:

Altitudes: Drilling curb 813.69 feet; Land surface 811 ⁺ feet

Determined by

Topographic position SIDE HILLTotal depth: Reported 517 feet; Measured feet

Drilling method

CABLE TOOLS

Hole and casing data

98' OF 16" OD CASING (PULLED OUT)247' OF 10" ID CASING (CEMENTED)

Original depth to water above
ft. below Date

Source of data

Sources of water: Principal

SILURIAN

Others

PRODUCTION DATA

Date

Static water level

115.5

Pumping water level

217.5

Yield (g. p. m.)

105⁺ GPM.

Measuring point

Duration of pumping

8 HOURS PUMPED JUNE 14, 1962

Specific capacity

LABORATORY DATA

0-245 TL4-341

245-517 TL4-361

Well No.

Sample range

No. of samples

No. of dupls. and cond.

Washed range

Samples prepared by

Date

Logged by

NORTON

Date

6/18/62

Correlations by

Date

6/18/62



HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

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LINCOLN, IOWA

LOG OF WELL

IOWA GEOLOGICAL SURVEY
JUN 19 1962



UNIVERSITY FIELD STATION * CORALVILLE RESERVOIR

Total depth of well - 517 ft.

Static water level - 115.5

Pumping level - 219 ft., pumping at 104 gal. per min.

Formation:

Yellow clay	0-62 Ft.
Blue clay	62-95 Ft.
Gray limestone	95-130 Ft.
Brown limestone and shale	130-180 Ft.
Gray limestone	180-290 Ft.
White limestone	290-340 Ft.
Gray limestone	340-415 Ft.
White limestone	415-515 Ft.
Shale	515-517 Ft.

16 in. hole drilled 0-247 ft.

10 in. pipe in 16 in. hole 0-247 Ft.

10 in. pipe cemented in 16 in. hole 0-247 Ft.

10 in. open hole 247-517 Ft.

Started the well - May 7, 1962

Finished the well - June 14, 1962

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

 Report Page No. _____
 GROUND WATER BRANCH
COUNTY JohnsonSTATE Iowa

WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS

WELL NO. 10 (B-121) Location: NE $\frac{1}{4}$ of NW $\frac{1}{4}$ sec. 32, T 81 N., R 6 W, about 50 feet south of road.

Highest water level _____ 19 _____; lowest _____ 19 _____
 Records available _____ Water level _____

Date	Water level	Date	Water level	Date	Water level	Date	Water level
9/11/56	683.46	12/17/57	681.54	4/30/59	692.97		
9/24/56	683.29	1/14/58	682.06	5/13/59	692.30		
10/12/56	683.28	3/11/58	683.16	6/4/59	692.90		
10/25/56	683.22	4/15/58	683.57	7/23/59	691.76		
11/13/56	682.49	5/20/58	683.67	8/11/59	692.54		
11/29/56	681.88	6/3/58	683.43	9/10/59	692.76		
12/4/56	681.72	6/17/58	684.95	10/15/59	693.99		
12/14/56	681.63	6/24/58	684.76	12/8/59	695.25		
1/3/57	681.88	7/10/58	684.50	1/26/60	698.88		
1/29/57	681.94	7/23/58	684.85				
2/19/57	682.33	8/18/58	684.09				
3/21/57	682.24	9/11/58	685.30				
4/16/57	682.28	9/30/58	684.83				
5/20/57	682.84	11/24/58	685.23				
7/1/57	682.42	12/15/58	685.70				
7/25/57	681.69	1/20/59	686.13				
9/9/57	681.15	3/31/59	694.80				
10/8/57	680.97	4/9/59	695.95				
11/20/57	681.22	4/22/59	692.08				

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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WATER RESOURCES DIVISION

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GROUND WATER BRANCH

COUNTY JohnsonSTATE Iowa

WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS

WELL NO. 9 (B-120) Location: Near center of west line Sec. 32, T 81 N., R 6 W,
about 100 feet south of road by house foundation.

Highest water level _____ 19____; lowest _____ 19____

Records available _____ Water level _____

Date	Water level	Date	Water level	Date	Water level	Date	Water level
9/11/56	672.58	12/17/57	669.38	4/30/59	684.19		
9/24/56	672.89	1/14/58	670.61	5/13/59	683.32		
10/12/56	672.87	3/11/58	670.07	6/4/59	682.72		
10/25/56	673.10	4/15/58	671.35	7/23/59	680.10		
11/13/56	673.26	5/20/58	673.57	8/11/59	680.24		
11/24/56	672.96	6/3/58	673.99	9/10/59	682.16		
12/5/56	673.03	6/17/58	675.62	10/15/59	684.35		
12/14/56	672.96	6/24/58	677.18	12/8/59	685.84		
1/3/57	671.13	7/10/58	676.90	1/26/60	689.50		
1/24/57	671.27	7/23/58	677.17				
2/19/57	671.53	8/18/58	677.70				
3/21/57	672.35	9/11/58	677.71				
4/16/57	672.83	9/30/58	678.74				
5/20/57	673.30	11/24/58	678.55				
7/1/57	674.36	12/15/58	678.48				
7/25/57	674.08	1/20/59	678.19				
9/9/57	666.84	3/31/59	684.57				
10/8/57	666.29	4/9/59	689.00				
1/20/57	668.46	4/22/59	685.76				



MEMBER

Phone GR 3-2707

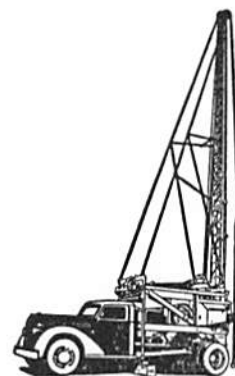
HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

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LINCOLN, IOWA



PUMPING RECORD

UNIVERSITY FIELD STATION - CORALVILLE RESERVOIR

June 14, 1962

<u>TIME</u>	<u>STATIC WATER LEVEL</u>	<u>GAL. PER MIN.</u>	<u>REMARKS</u>
8:45 A.M.	115.5		Started pump
8:46	150		6 in. pipe - 3 in. orifice
8:47	155		Water cloudy
8:48	160		
8:50	161.6	90	Water clearing
8:55	168.6		
9:00	171.6	90	1250 R.P.M. on pump
9:05	174		Water temperature 52°
9:10	175.5		
9:15	176.6	90	
9:30	178.6		
9:45	177.5		Motor missing some.
10:00	179	90	21 grains hardness
10:05	217	152	0.6 R.P.M. iron
10:15	224.7	134	
10:30	228.5	134	Water clear
10:45	230.7	132	
11:00	232.5	128	Increased rate
11:20	167	167	Electric line stuck
11:30	355	167	Breaking suction
11:45	355	167	Breaking suction
12:00 P.M.	355	167	Shut off to free elec. line.
3:30	125		Started pump
3:40	199.5	116	
3:50	204.5	114	
4:00	208.4	111	
4:15	210.7	111	Water clear
4:30	212.8	111	
4:45	215.5	111	
5:05	215.5	109	
5:15	215.9	109	
5:30	216.2	109	
5:45	217.1	109	
6:00	217.4	109	
6:30	219.5	109	
6:45	221.5	109	
7:00	217	104	
7:15	217.4	104	
7:30	218.1	104	
7:45	217.4	104	
8:00	217.6	104	
8:15	219	104	

University of Iowa Recreation Area - Pumping Test Data, May 14, 1962, DRAWDOWN

Time	SWL	Water Level	Draw-down	Orifice	GPM	Remarks
8:45 A.M.	115.2	115.2	0			Pump turned on, pump set C 356'
8:46		150.0		7½"	90	Water cloudy, 6" Discharge pipe, 3" orifice
8:47		155.0		7½"	90	"
8:48½		160.0		7½"	90	"
8:50		161.6		7½"	90	Water partly cloudy
8:55		168.6		7½"	90	Water clear-temp. 52°
9:00		171.6		7½"	90	"
9:05		174.0		7½"	90	"
9:10		175.5		7½"	90	"
9:15		176.6		7½"	90	"
9:30		178.6		7½"	90	
9:45		177.5		7½"	90	
9:49				7½"	90	Pump off, for few seconds
10:00		179.0		7½"	90	"
10:01				21"	152	Increased pumping rate to 152 GPM
10:05		217.0		18"	140	
10:15		224.7		16.5"	134	
10:30		228.5		16.5"	134	
10:45		230.7		16.0"	132	
11:00		232.5		15.0"	128	
11:02						Increasing pump rate, measuring line fouled- couldn't get readings
11:20		355+ est.		25"	167	Breaking suction-"orifice" fluctuating, water cloudy
11:30		355' +		25"	167	"
11:40		355'+		25"	167	"
11:50		355'+		25"	167	"
12:00 PM.						Pump Off
12:00 PM. - 3:30 PM. shut down						Shut down -pulled seven stands of pipe column to free measuring line
3:35		125'				

University of Iowa Recreation Area - Pumping Drawdown

Time	SWL	Water Level	Drawdown	Orifice	GPM	Remarks
3:30 P.M.		125.0				Pumping on water
3:40		199.5		12.0	116	clear
3:50		204.5		12.0	114	"
4:00		208.5		11.5	111	"
4:15		210.7		11.5	111	"
4:30		212.8		11.5	111	"
4:45		215.5		11.5	111	"
5:05		215.5		11.0	109	"
5:15		215.9		11.0	109	"
5:30		216.2		11.0	109	"
5:45		217.1		11.0	109	"
6:00		217.4		11.0	109	"
6:15		218.7		11.0	109	"
6:30		219.5		11.0	109	"
6:45		221.5		11.0	109	"
7:00		217.0		10.0	104	"
7:15		217.4		10.0	104	"
7:30		218.1		10.0	104	"
7:45		217.4		10.0	104	"
8:00		217.6		10.0	104	Water clear-took
8:15		219.0		10.0	104	Pump off ^{WATER} samples

University of Iowa Recreation Area - Recovery

Time	Level	Remarks
8:15 P.M.	219.0	Pump Off
8:17	164.3	
8:18	140.3	Reading questionable, perhaps due to surging action
8:19	150.2	
8:20	152.8	
8:21	153.6	
8:22	153.8	
8:22 30 sec.	153.7	
8:23	153.7	
8:23 15 sec.	153.5	
8:23 30 sec.	153.3	
8:23 45 sec.	153.2	
8:23 30 sec.	153.1	
8:24	153.0	
8:25	152.0	
8:26	151.5	
8:27	151.0	
8:28	150.5	
8:29	149.9	
8:30	149.4	
8:31	149.1	
8:32	148.6	
8:33	148.2	
8:34	147.8	
8:35	147.3	
8:38	146.2	
8:41	145.0	
8:43	144.4	
8:45	143.8	