

TABLE I

**Pumping Test at West Liberty, Iowa
February 13, 1959
Well No. 2**

Location: NE NW SW sec. 13 T. 78 N., R. 4 W

Total Depth: 1655'

Elevation of land surface datum: 663'

Contractor: Hoeg and Ames

Driller: Erv. Fink

Date drilled: August 11, 1958 - January 27, 1959

Casing data: 14" casing 0-460'; 620' of 10" casing 460'-1080' cemented

Water level: Static water level was 91.87' below base of pump which was approximately 2.2' above land surface. Time 8:00 a. m.

Test pump: Turbine powered directly by gas engine. Auxillary engine with belt drive also used early in test. Bowls set at 195'.

Aquifer: Prairie du Chien, Jordan, and St. Lawrence

**Measurements: Water level measurements by airline, which was set at 185'.
Discharge determined by a calibrated rectangular weir.**

Observers: L. L. Steele and R. E. Hansen

TABLE II

Pumping Test at West Liberty, Iowa
 February 13, 1959
 Well No. 2

Time (minutes)	Airline reading	Pumping W. L.	Drawdown (ft)	GPM	Remarks
0 (static)	96				Static (tape) 91.87 (airline) 89.00
1	56	129	40		
2	51	134	45		Pumping started at 8:13 a. m.
3	50	135	46		Airline at 185'
4	49	136	47		Pump set at 195'
5	49	136	47		
6	49	136	47		
7	49	136	47		
8	49	136	47		
9	49	136	47		
10	49	136	47	410	
12	48	137	48		
14	48	137	48		
16	49	136	47		
18	50	135	46	458	T= 65°F
20	51	134	45		
25	51	134	45		
30	54	131	42	440	
35	52	133	44		
40	52	133	44	450	T=65°F
45	52	133	44		
50	52	133	44		
60	52	133	44	450	T=65°F
70	53	132	43		
81	55	130	41	410	
91	63	122	33	364	Motor slowed
94	60	125	36	390	
108	58	127	38		
109½					
110	39	146	57		Motor speeded up
111½	20	165	76		
113	12	173	84		
115	12	173	84		
116	11	174	85		
117	11	174	85	650	

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Time (minutes)	Airline reading	Pumping WL	Drawdown (ft)	GPM	Remarks
118	10	175	86		
119	4	181	92		
120	3	182	93		
123	3	182	93	675	T=65°F
125	4	181	92		
130	2	183	94		
135	1	184	95		
140	1	184	95		
145	1	184	95		
150	12	173	84		Motor slowed--heavy knocking
154	25	160	71		
155	30	158	66		
157	30	155	66	500	
160	27	158	69	525	
165	29	156	67		
180	24	161	72		
195	24	161	72		11:25 a. m.
210	21	164	75	550	Pump shut off
211 (1)	64	121	32		Recovery measurements
212 (2)	84	101	12		
213 (3)	87	98	9		
214 (4)	88	97	8		
215 (5)	89	96	7		
217 (7)	89	96	7		
220 (10)	90	95	6		
225 (15)	91	94	5		
0					Pumping restarted at 12:02 after repairs
1	32	153	64		
2	29	156	67		
3	28	157	68		
4	27	158	69	560	
5	27	158	69		
6	27	158	69		
8	27	158	69		
10	27	158	69		
50	25	160	71		
99	22	163	74	550	
118	22	163	74	550	
148	21	164	75		T=65°F; took water sample
178	20	165	76		
208	20	165	76		

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Time (minutes)	Airline reading	Pumping WL	Drawdown (ft)	GPM	Remarks
238	20	165	76	550	
266	20	165	76	550	Pump shut off
267 (1)	51	134	45		Recovery measurements
268 (2)	81	104	15		
269 (3)	85	100	11		
270 (4)	86	99	10		
272 (6)	87	98	9		
274 (8)	87	98	9		
276 (10)	88	97	8		
281 (15)	89	96	7		
286 (20)	89	96	7		
291 (25)	90	95	6		
296 (30)	90	95	6		

Tape reading 99.00-
0.72 = 98.28'