70894

Iowa Department of Natural Resources Geological Survey Bureau
109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 335-1575

WELL RECORD

Permit No. 2009-15W

Site identification

Property Owner Water Works Well Number 34-08
Address 211 South First Street
Tenant Oskaloosa, Iowa 52577
Well Depth 51 ft Date Completed 09 / 23 / 09

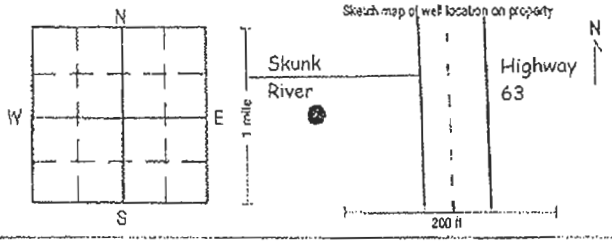
Location

County Mahaska

___ mi. N/S and ___ mi. E/W of intersection of _____ and _____

SW 1/4 of the NW1/4 of the SE 1/4 of Sec 25 TWP 67N RNG 16 E/W

Show exact location of well in section grid with a dot (•).



☐ upland ☐ hillside ☐ valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	5	Blk		Blk top soil
5	15	Red		Sandy Clay
15	26	Gray		Sandy Clay
26	35	Gray		Fine sand, gravel
35	49	Gray		Med. sand, gravel
49	51			Med. gravel
				1 - 6" cobbles
				broken limestone

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)

Well use

☐ Domestic ☒ Municipal ☐ Industrial
☐ Livestock ☐ Public Supply ☐ Monitoring
☐ Test Well ☐ Irrigation ☐ Other _____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other Reverse

Hole size

40 inch from 0 ft to 51 ft
___ inch from ___ ft to ___ ft

hole size continued
___ inch from ___ ft to ___ ft
___ inch from ___ ft to ___ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing

Drive shoe (yes / no) Pitless adaptor (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
24" OD	140 lbs.	+17	36'	53'
	1/2" wall			

Perforated or slotted casing? (yes / no)

Perforated / slotted from ___ ft to ___ ft
Perforated / slotted from ___ ft to ___ ft

Casing grouted? (yes / no)

Type	Depth Top	Depth Bottom	Amount
Neat cement	5'	14'	5 yards

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
24	070	36'	51	15'	SS

Bottom capped (yes / no) with SS plate
Seals / Packers (yes / no) kind Hole plug depth 14' - 15' ft
Gravel packed (yes / no) from 15' ft to 51' ft
type #2 amount 20,000 lbs. 5 super sacks

Well developed? (yes / no)

Explain Double disc. swab

Pump installed? (yes / no) Date 5 / 5 / 2010

Installer's name Northway Well and Pump Company
Type of pump Turbine Depth to intake 56 ft
Pump diameter 10" Rated capacity 500 GPM

Water information

Aquifer: ☒ sand/gravel ☐ limestone ☐ sandstone
Main water-supply zone from 36 ft to 51 ft
Final water level (static water level) 9 ft (below / above) GL.
Pumping water level 28 ft below GL; ☐ tape ☐ airline ☒ E-line
At yield of 800 GPM: ☐ orifice ☐ volumetric ☐ estimate Date 3-2-2010
Meter

Water quality test? (yes / no) Date tested ___ / ___ / ___

Tested by Taken by Water Department
Test results _____

Contractor

Contractor Northway Well and Pump Company
Address 4895 8th Avenue - Marion, Iowa 52302
Driller Leon Carpenter Certification no. 1822

white copy - Iowa DNR, Geological Survey Bureau blue copy - Well Contractor pink copy - Customer yellow copy - County Health Officer

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Northway Well and Pump Co.

4895 8th Avenue
Marion, Iowa 52302
319-377-6339
1-800-747-6339

100 North 6th Street
Waukee, Iowa 50263
515-987-4575
1-800-747-4575

WELL TEST DATA REPORT

Customer City Water Works City Oskaloosa, Iowa
Location North Water Plant Hwy. 63 Well No. 34-08
Size Casing 24" Total Depth 51' Construction Stainless Steel Screen
Make Pump Gould's Model No. 14CHC / 50 hp No. of Stages 2
Diameter 12" Total Setting 35' Air Line Length 35'
Meter Used Propeller - Sparling Static Level 7.8

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
3/2/10	9:00am	800	7.8	9.00	88.8		Clear
	9:15	800	25.05	17.25	46.37	40	Clear
	9:30	800	25.20	17.4	45.97	40	Clear
	9:45	800	25.30	17.5	45.71	40	Clear
	10:00	800	25.37	17.57	45.53	40	Clear
	10:15	800	25.43	17.63	45.37	40	Clear
	10:30	800	25.50	17.7	45.19	40	Clear
	10:45	800	25.51	17.71	45.17	40	Clear
	11:00	800	25.60	17.8	44.94	40	Clear
	11:30	800	25.71	17.91	44.66	40	Clear
	12:00pm	800	25.85	18.05	44.32	40	Clear
	12:30	800	25.90	18.1	44.19	40	Clear
	1:00	800	26.03	18.23	43.88	40	Clear
	1:30	800	26.09	18.29	43.73	40	Clear
	2:00	800	26.15	18.35	43.59	40	Clear
	2:30	800	26.24	18.44	43.38	40	Clear
	3:00	800	26.26	18.46	43.33	40	Clear
	3:30	800	26.34	18.54	43.14	40	Clear
	4:00	800	26.40	18.6	43.01	40	Clear
	4:30	800	26.50	18.7	42.78	40	Clear
	5:00	800	26.55	18.75	42.66	40	Clear
	5:30	800	26.63	18.83	42.48	40	Clear
	6:00	800	26.70	18.9	42.32	40	Clear
	6:30	800	26.70	18.9	42.32	40	Clear
	7:00	800	26.74	18.94	42.23	40	Clear
	7:30	800	26.78	18.98	42.14	40	Clear
	8:00	800	26.80	19	42.10	40	Clear
	8:30	800	26.86	19.06	41.97	40	Clear

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WELL TEST DATA REPORT

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Customer City Water Works City Oskaloosa, Iowa
Location North Water Plant Hwy. 63 Well No. 34-08

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
	9:00	800	26.92	19.12	41.84	40	Clear
	9:30	800	27.03	19.23	41.6	40	Clear
	10:00	800	27.10	19.3	41.45	40	Clear
	10:30	800	27.10	19.3	41.45	40	Clear
	11:00	800	27.18	19.38	41.27	40	Clear
	11:30	800	27.20	19.4	41.23	40	Clear
3/3/10	12:00	800	27.23	19.43	41.17	40	Clear
	12:30	800	27.25	19.45	41.13	40	Clear
	1:00	800	27.25	19.45	41.13	40	Clear
	1:30	800	27.27	19.47	41.08	40	Clear
	2:00	800	27.27	19.47	41.08	40	Clear
	2:30	800	27.29	19.49	41.04	40	Clear
	3:00	800	27.32	19.52	40.98	40	Clear
	3:30	800	27.35	19.55	40.92	40	Clear
	4:00	800	27.38	19.58	40.85	40	Clear
	4:30	800	27.40	19.6	40.81	40	Clear
	5:00	800	27.40	19.6	40.81	40	Clear
	5:30	800	27.43	19.63	40.75	40	Clear
	6:00	800	27.44	19.64	40.73	40	Clear
	6:30	800	27.48	19.68	40.65	40	Clear
	7:00	800	27.51	19.71	40.58	40	Clear
	7:30	800	27.53	19.73	40.54	40	Clear
	8:00	800	27.60	19.8	40.40	40	Clear
	8:30	800	27.63	19.83	40.34	40	Clear
	9:00	800	27.70	19.9	40.20	40	Clear
	9:30	800	27.74	19.94	40.12	40	Clear
	End of Pumping Test						

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Customer City Water Works City Oskaloosa, Iowa
Location _____ Well No. 34-08

DATE	TIME	GPM	SWL	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
Recovery	9:00						
	9:01		12.00				
	9:02		12.00				
	9:03		12.00				
	9:04		11.89				
	9:05		11.75				
	9:06		11.74				
	9:07		11.72				
	9:08		11.65				
	9:09		11.60				
	9:10		11.55				
	9:15		11.00				
	9:20		10.50				
	9:25		10.40				
	9:30		10.30				
	10:00		10.15				
	10:30		10.01				
	11:00		9.92				
	11:30		9.81				
	12:00		9.77				
	12:30		9.63				
	1:00		9.51				
	1:30		9.50				
	2:00		9.49				