

076507

WELL RECORD

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

PWTS Well No. 722701-WL24

PWTS Permit No. _____
County Permit No. 2011-131W

Site identification

Property Owner Osceola County Rural Water System Other ID H4
Address P.O. Box 37
Tenant May City, IA 51349
Well Depth 47 ft Date completed 4/5/12

Drill method

rotary auger cable other _____

Hole size

20 inch from 0 ft to 59 ft
hole size continued
_____ inch from _____ ft to _____ ft
_____ inch from _____ ft to _____ ft

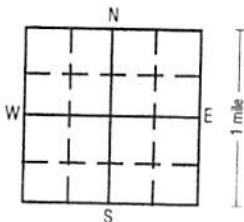
Location

County Osceola

_____ mi. N and _____ mi. E of intersection of _____ and _____
_____ 1/4 of the _____ 1/4 of the NW 1/4 of Sec 10 TWP 98N RNG 39 E

GPS Coordinates (NAD83 datum only) decimal degrees:
_____ N. Latitude _____ W. Longitude.

Show exact location of well in section grid with a dot (•). Sketch map of well location on property.



See attached

upland hillside valley level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
				<i>see attached.</i>

RECEIVED
OCT 01 2013
By _____

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

Casing

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

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
12"		+3'6"	31'8"	35'2"

Perforated or slotted casing? (yes/no)

Perforated / slotted from _____ ft to _____ ft
Perforated / slotted from _____ ft to _____ ft

Casing grouted? (yes/no)

Placement method Slurry Pipe

Type	Depth top	Depth bottom	Amount (vol/wt)
Neat cement	0	25'	30 bags

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
1.2	0.120	31'8"	46'8"	15'	SS
0.____					

Bottom capped (yes/no) with _____
Seals / Packers (yes/no) kind Bentonite depth 25 ft
Gravel packed (yes/no) from 26 ft to 59 ft
type Red Flint-90 amount 3,850 lbs

Well developed? (yes/no)

Explain Not pumped
(pumped, airlifted, bailed) for 24 hrs at 500 GPM

Pump installed? (yes/no)

Installer's name Rayd Wuzget Date 9/10/13
Type of pump Grundfos Depth to intake 37' ft
Pump diameter 6" Rated capacity 500 GPM

Water information

Aquifer: sand / gravel limestone sandstone

Main water-supply zone from 31'8" ft to 46'8" ft seepage well
Static water level 19'6" ft (below/above) GL; tape airline E-line estimate
Pumping water level 19' ft below GL; tape airline E-line estimate
At yield of 500 GPM; orifice volumetric estimate for 24 hours
Measurements taken at 3:20 (AM/PM) Date 10/9/12

Water quality test? (yes/no)

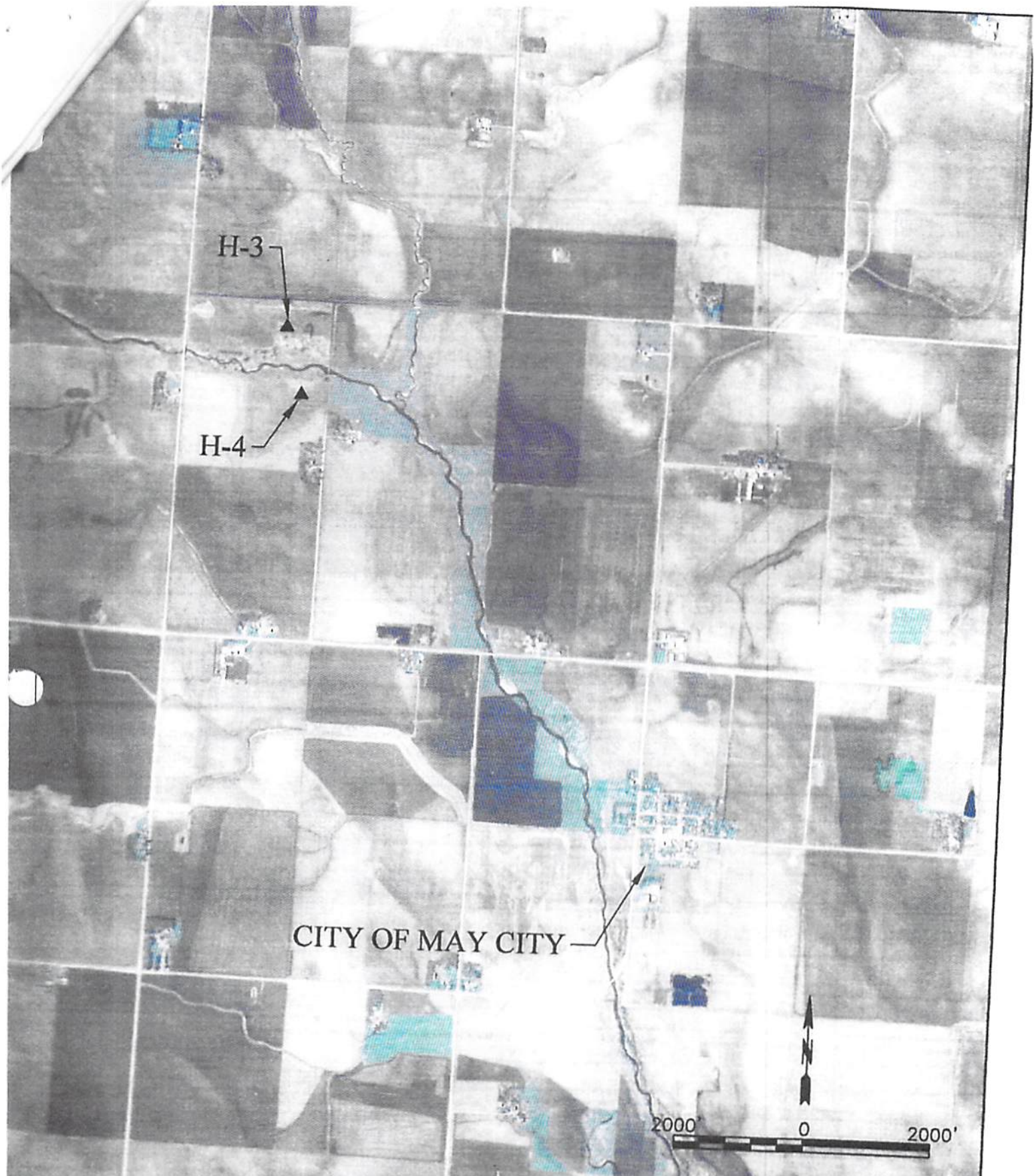
Tested by Dennis Auld Date tested _____

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

Well use

Domestic Heat pump Commercial
 Livestock Municipal Monitoring
 Test well Public supply Other
 Irrigation

Contractor Canoy Pump Service
Address 24542 190th St.
Driller Dennis Auld Certification no. 1778



HARMS SITE LOCATION MAP

SHEET 1



DeWild Grant Rockert and Associates Company
Consulting Engineers and Land Surveyors

Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

Date: JULY 2011
 Designed By: JMG
 Project Manager: GBK
 Project Number: 801232
 Plot Date: 7/7/11

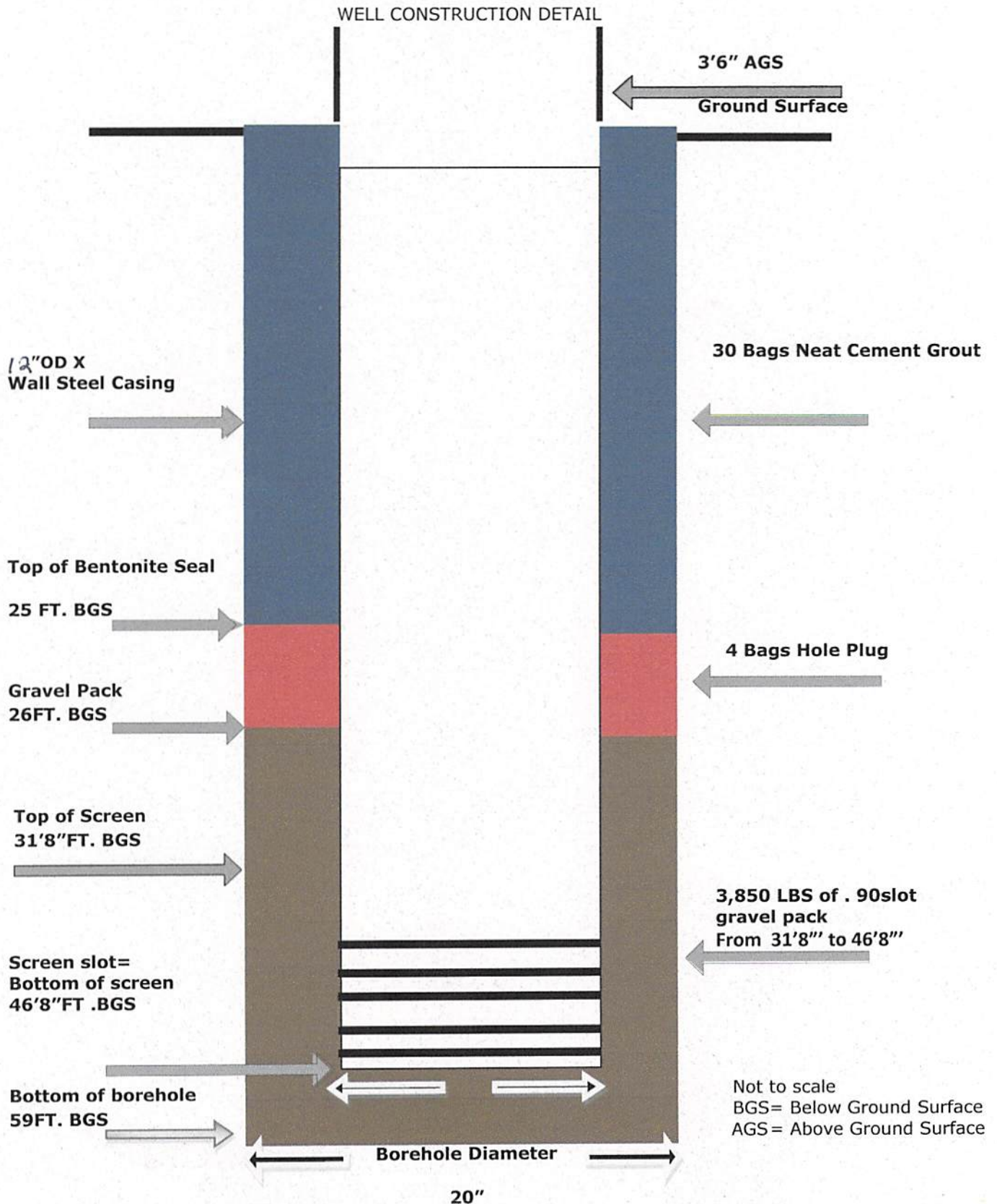
REV	DATE

2011 HARMS WELLS PROJECT
OSCEOLA COUNTY
RURAL WATER SYSTEM
MAY CITY, IOWA

CAHOY WELL AND PUMP SERVICE
24568 150TH ST. STE. 200
SUMNER, IA 50674

OWNER: Osceola Rural Water
WELL # H4
DATE: 04/26/12
GPS: 43°20.218N 095°29.900W

563-578-1130 SUMNER, IA
563-578-1135 FAX
712-781-2030 MARNE, IA
712-781-2032 FAX



CONSTANT RATE TEST OCRW Well # H4(2)

TIME	PIZOM READING	GPM	Pumping Level	Draw Down	Spec Cap
3:20PM	70	505	19.52	8.82	57.26
3:21	70	505	19.52	8.82	57.26
3:22	70	505	19.55	8.85	57.06
3:23	70	505	19.55	8.85	57.06
3:24	70	505	19.53	8.83	51.19
3:25	70	505	19.53	8.83	51.19
3:26	70	505	19.53	8.83	51.19
3:27	70	505	19.52	8.82	57.26
3:28	70	505	19.52	8.82	57.26
3:29	70	505	19.52	8.82	57.26
3:30	70	505	19.52	8.82	57.26
3:32	70	505	19.52	8.82	57.26
3:34	70	505	19.52	8.82	57.26
3:36	70	505	19.52	8.82	57.26
3:38	70	505	19.52	8.82	57.26
3:40	70	505	19.52	8.82	57.26
3:45	70	505	19.52	8.82	57.26
3:50	70	505	19.52	8.82	57.26
3:55	70	505	19.52	8.82	57.26
4:00	70	505	19.52	8.82	57.26
4:10	70	505	19.32	8.62	58.58
4:20	70	505	19.32	8.62	58.58
4:30	70	505	19.32	8.62	58.58
4:45	70	505	19.32	8.62	58.58
5:00	70	505	19.32	8.62	58.58
5:15	70	505	19.32	8.62	58.58
5:30	70	505	19.32	8.62	58.58
6:00	70	505	19.32	8.62	58.58
6:30	70	505	19.32	8.62	58.58
7:00	70	505	19.32	8.62	58.58
8:00	70	505	18.35	8.65	58.38
9:00	70	505	18.37	8.67	58.25
10:00	70	505	18.4	8.7	58.05
11:00	70	505	18.4	8.7	58.05
12:00AM	70	505	18.45	8.75	57.71
1:00	70	505	19.6	8.9	56.74
2:00	70	505	19.6	8.9	56.74
3:00	70	505	19.6	8.9	56.74

4:00	70	505	19.6	8.9	56.74
5:00	70	505	19.6	8.9	56.74
6:00	70	505	19.6	8.9	56.74
7:00	70	505	19.6	8.9	56.74
8:00	70	505	19.6	8.9	56.74
9:00	70	505	19.6	8.9	56.74
10:00	70	505	19.6	8.9	56.74
11:00	70	505	19.6	8.9	56.74
12:00PM	70	505	19.6	8.9	56.74
1:00	70	505	19.6	8.9	56.74
2:00	70	505	19.6	8.9	56.74
3:00	70	505	19.6	8.9	56.74
3:30	70	505	19.6	8.9	56.74
Recovery					
3:50			11.2		
3:51			11.2		
3:52			11.2		
3:53			11.2		
3:54			11.2		
3:55			11.2		
3:56			11.2		
3:57			11.1		
3:58			11.1		
3:59			11.1		
4:00			11.1		
4:02			11.1		
4:04			11		
4:06			11		
4:08			11		
4:10			11		
4:15			11		
4:20			11		
4:25			11		
4:30			10.9		
4:40			10.9		
4:50			10.9		
5:00PM			10.9		