

AUG-24-2007 11:02A FROM: Middendorff Well Co. 712-203-2400

TO: 17127326293

P: 2/2

#3

WELL RECORD

Permit No. _____

Iowa Department of Natural Resources Geological Survey Bureau
109 Townbridge Hall, Iowa City, IA 52242-1310 PH (319) 335-1576

Site Identification No. 3 South Well

Property Owner City of Marathon Well Number 1

Address Marathon, IA

Tenant _____

Well Depth 100 ft Date completed 4/16/93

Location County Buchanan

3/4 mi. S 1/2 mi. W of intersection of Hwy 10 and MS4

SW 1/4 of the NE 1/4 of the NE 1/4 of Sec 21 TWP 93 Rng 35

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

☐ Upland ☐ Hillside ☐ Valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation Description
0	4	Black		Topsoil
4	19			Yellow Clay
19	38			Blue Clay
38	43			Gravel
43	88			Blue Clay
88	100			Gravel
100				Blue Clay

Use additional sheets as needed.

Drill method ☒ Rotary ☐ Auger ☐ Cable ☐ Other _____

Hole size 12 1/4 inch from 0 ft to 100 ft

Hole size (nominal) _____ inch from _____ ft to _____ ft

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

Casing

Casing (inches)	Length (ft)	Depth (ft)	Depth (bottom)	Amount (length)
8" ID PVC/200	6	89	83'	
10" ID Steel	18"	6	7'6"	

Perforated or slotted casing? (yes/no) ☒ Yes

Perforated / slotted from _____ ft to _____ ft

Unperforated / solid from _____ ft to _____ ft

Casing grouted? (yes/no) ☒ Yes Placement method Trimmed

Type	Depth Top	Depth Bottom	Amount (volume)
Bentonite	6'	75	220 gallons
Ben Seal			

Well screen? (yes/no) ☒ Yes

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
8" P.S.	0.030	89	100	11	Stainless Steel

Benton capped (yes/no) ☒ Yes with Plate Bottom - Stainless Steel

Seals / Packers (yes/no) ☒ Yes and Bentonite depth 76 ft

Gravel packed (yes/no) ☒ Yes from 75 ft to 100 ft type Muskratine #1 amount 1200 #

Well developed? (yes/no) ☒ Yes

Capacity 1200 gal, 2 min. 230 RPM.

Pump installed? (yes/no) ☒ Yes

Installer's name Texas Bell Pump Service Date 1/1/93

Type of pump Submersible Depth to intake 85 ft

Pump diameter 6" Rated capacity 160 GPM

Water Information

Aquifer ☒ Sand / gravel ☐ Unconsolidated ☐ Sandstone

Main water supply zone from 88 ft to 100 ft ☐ Storage well

Static water level 67 ft (below/above) GL. ☐ (above) ☐ (below) ☐ (estimate)

Pumping water level 76 ft below GL. ☐ (above) ☐ (below) ☐ (estimate)

At yield of 230 GPM: ☐ orifice ☒ volumetric ☐ estimate

Measurements taken at _____ (AM/PM) Date _____

Water quality test? (yes/no) ☒ Yes Date tested _____

Tested by _____

Well use

☐ Domestic ☒ Municipal ☐ Commercial

☐ Livestock ☐ Public supply ☐ Monitoring

☐ Test well ☐ Irrigation ☐ Other _____

(explain) _____

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

Well use

Co. name Middendorff Well Co.

Address Sioux Rapids, IA

Driller Craig Middendorff & Larry Registration No. _____