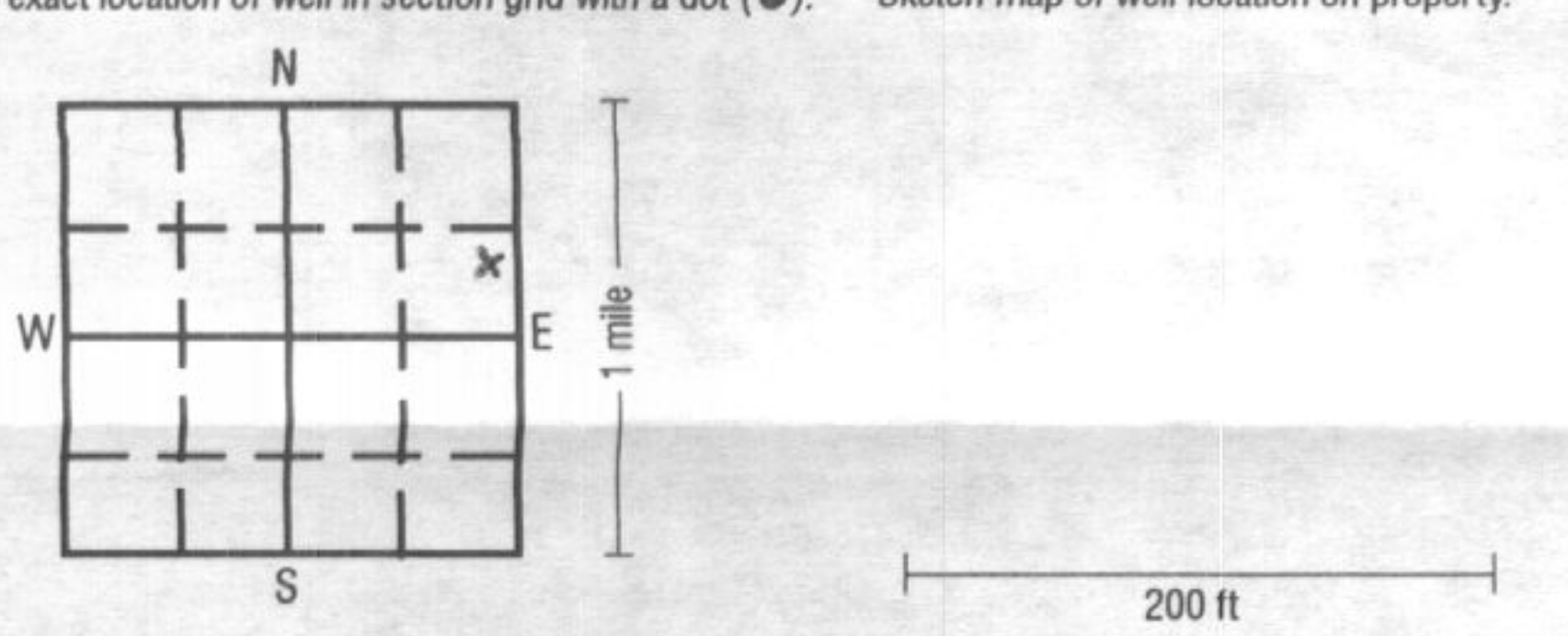


**Site identification**  
 Property Owner Mid American Energy Co. Well Number \_\_\_\_\_  
 Address 8602-172<sup>nd</sup> St. Muscatine, Ia. 52761  
 Tenant Louisia Generating Station  
 Well Depth 173 ft Date completed 11 / 29 / 00

**Drill method**  rotary  auger  cable  other \_\_\_\_\_  
**Hole size**  
42 inch from 0 ft to 173 ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Location** County Louisia  
 \_\_\_\_\_ mi. N and \_\_\_\_\_ mi. E of intersection of \_\_\_\_\_ and \_\_\_\_\_  
NW 1/4 of the SE 1/4 of the NW 1/4 of Sec 9 TWP 75N RNG 2 E  
 Show exact location of well in section grid with a dot (•). Sketch map of well location on property.  
  
 upland  hillside  valley Elevation (if known) \_\_\_\_\_

**Casing** Drive shoe (yes/no)  Pitless adapter (yes/no)   
 Size (ID/OD) | Type / Wt | Depth top | Depth bottom | Amount (length)  
24" OD ASTMA53B | 125.9 | +2 | 113 | 115

**Perforated or slotted casing?** (yes/no)   
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

**Casing grouted?** (yes/no)  Placement method pumped  
 Type | Depth Top | Depth bottom | Amount (vol/wt)  
Heat Cement | 0 | 30 | 400 bags

**Formation log**

From	To	Color	Hardness	Formation description
0	2			Top soil
2	20			Med. to coarse sand
20	54			Med. to coarse sand
54	74			Med. sand + rocks
74	96			Coarse sand
96	102			Coarse sand + rocks
102	110			sand, coarse
110	136			Fine to med. sand
136	160			Med. to coarse sand
160	171			Med. sand to fine gravel
171	175			Med. gravel
175				Rocks

**Well screen?** (yes/no)   
 Diameter | Slot size | Depth Top | Depth Bottom | Length | Material  
24" | 0.045 | 113 | 173 | 60 | SS  
 Bottom capped (yes/no)  with SS plug  
 Seals / Packers (yes/no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed (yes/no) from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 type \_\_\_\_\_ amount \_\_\_\_\_

**Well developed?** (yes/no)   
 Explain \_\_\_\_\_  
 (pumped, airlifted, bailed) for 6 hrs at 2400 GPM.

**Pump installed?** (yes/no)  Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Installer's name \_\_\_\_\_  
 Type of pump \_\_\_\_\_ Depth to intake \_\_\_\_\_ ft  
 Pump diameter \_\_\_\_\_ Rated capacity \_\_\_\_\_ GPM

**Water information** Aquifer:  sand / gravel  limestone  sandstone  
 Main water-supply zone from 113 ft to 173 ft  seepage well  
 Static water level 47 ft (below / above) GL;  tape  airline  E-line  estimate  
 Pumping water level 58 ft below GL;  tape  airline  E-line  estimate  
 At yield of 2400 GPM;  orifice  volumetric  estimate  
 Measurements taken at 11 : 00 (AM / PM) Date 12 / 8 / 00

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

**Water quality test?** (yes/no)  Date tested \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Tested by \_\_\_\_\_

**Well use**  
 Domestic  Municipal  Commercial  
 Livestock  Public supply  Monitoring  
 Test well  Irrigation  Other cooling  
 (explain)

Contractor Grusch Irrigation Co., Inc.  
 Address 13590 N. SR 29 Mason City, Ia. 62664  
 Driller Edward Greenfield Certification no. 40317