

64934

WELL RECORD

PWTS Permt No. 2007-0313W

Iowa Department of Natural Resources - Geological Survey
109 Knowledge Hall, Iowa City, IA 52242-1319 Fax (319) 336-1575

PWTS Well No. _____

County Permt No. _____

Site Identification
 Property Owner Rural Water #10R Other ID _____
 Address 4438 380th St Hospers, IA
 Parcel # _____
 Well Depth 248 ft Date completed 3/17/08

Location County Six
 _____ and _____ of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the NE 1/4 of Sec 20 TWP 9S Rng 45
 UTM coordinates (NAD83 datum only) decimal degrees
 _____ N Latitude _____ W Longitude _____
 Show location of well on grid with a dot (•) Sketch map of well location on property

Open Above Casing Below surface Elevation (ft) _____

Formation log

Top	To	Color	Hardness	Formation description
0	7	Black	soft	Top Soil
7	58	Brown	soft	Clay
58	193	Grey	soft	Clay
193	249	wh/br		Sand/sandstone
249	256	Grey	Med	Shale

Remarks (including depth of loss during fluids, materials, or tools)

Well use

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Irrigation	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other _____

Drill method rotary auger cable other Reverse
Hole size
24 inch from 0 ft to 256 ft
 _____ inch from _____ ft to _____ ft

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

Casing Size (OD)	Type/Wt	Drive shoe (yes/no)		Packer seats (yes/no)	
		Depth top	Depth bottom	Depth top	Depth bottom
12"	49.56/ft	1.5'	-218'		219 1/2'

Perforated or slotted casing? (yes/no) _____
 Perforated/slotted from _____ ft to _____ ft
 Perforated/slotted from _____ ft to _____ ft

Casing grouted? (yes/no) _____ Placement method _____

Type	Depth top	Depth bottom	Amount (yd/wt)
Neat Cement	10	178	

Well screen? (yes/no) _____

Diameter	Slot size	Depth top	Depth bottom	Length	Material
12	0.015	218	248	30	S.S.

Bottom capped (yes/no) with Stainless Steel Plate
 Seals/Packers (yes/no) xhd _____ depth _____ ft
 Gravel packed (yes/no) from 178 ft to 248 ft
 type NGC #2 amount _____

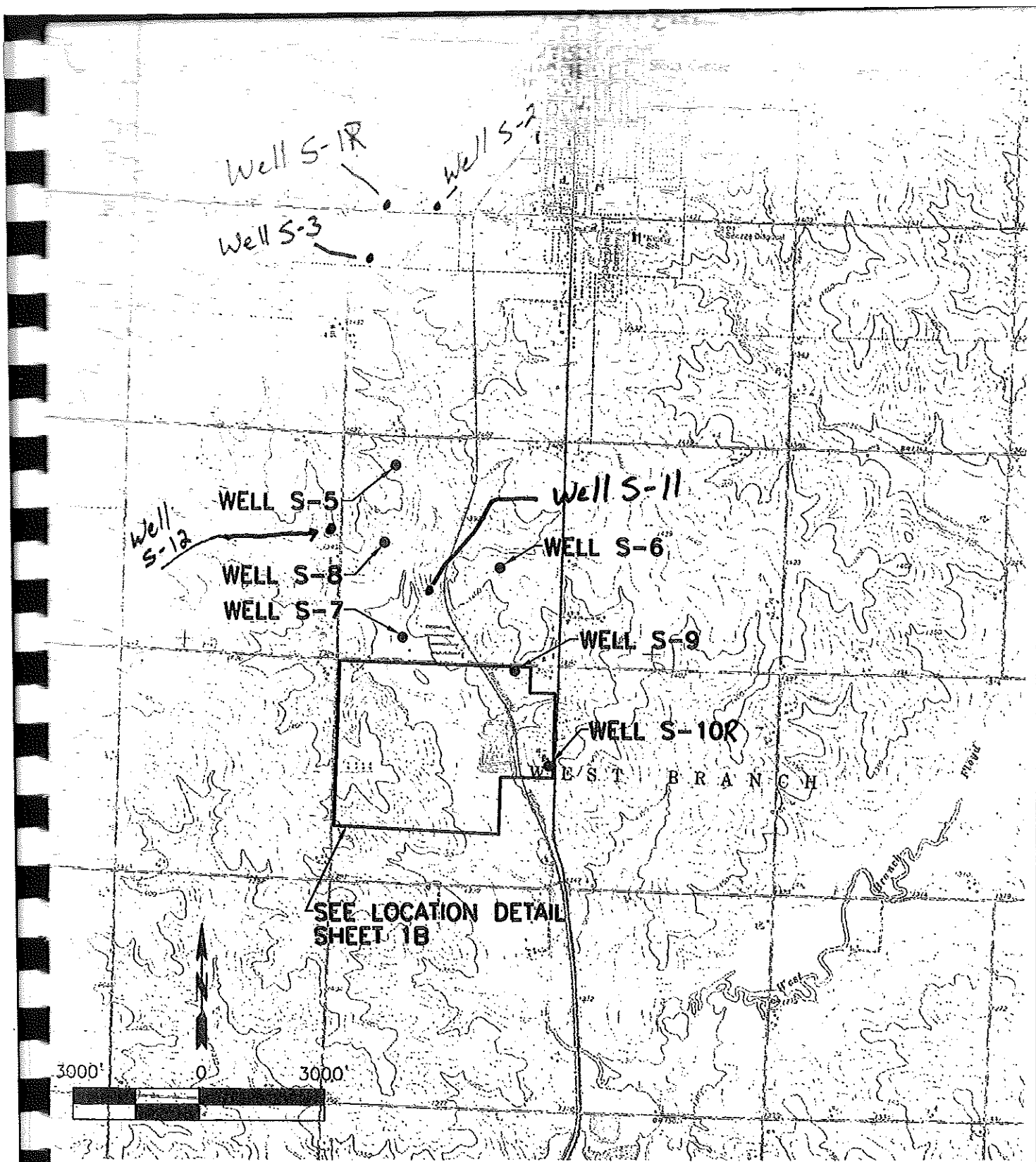
Well developed? (yes/no) _____
 Explain Surge, bail, jetted
 (pumped, drilled, bailed) for _____ hrs @ _____ GPM

Pump installed? (yes/no) _____ Date 3/14/08
 Installer's name Kenny Mohr
 Type of pump Submersible Depth to intake 239 ft
 Pump diameter 6" Rated capacity 300 GPM

Water information Aquifer: sand/gravel limestone sandstone
 Main water supply zone from 218 ft to 248 ft casing/well
 Static water level _____ ft (below/above) GL; tape drilling E-line estimate
 Pumping water level _____ ft below GL; tape drilling E-line estimate
 A1 yield of _____ GPM; orifice volumetric estimate for _____ hours
 Measurements taken at _____ (AM/PM) Date _____/_____/____

Water quality test? (yes/no) _____ Date tested _____/_____/____
 Tested by RW #1

Contractor Morrell Co.
 Address P.O. Box 908 Waukegan, IA 50263
 Order Darwin Gehoy Certification no. 1786



LOCATION PLAN

1A

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DeWid Grant Reckert and Associates Company
 Consulting Engineers
 Rock Rapids, Iowa
 Sioux City, Iowa
 Sioux Falls, South Dakota

Date SEPT 2007
 Drawn By JMG
 Approved GJP
 Revised
 PROJECT NO. 801613

**SCHEDULE 3 - WELLS
 2008 IMPROVEMENTS
 RURAL WATER SYSTEM NO. 1**