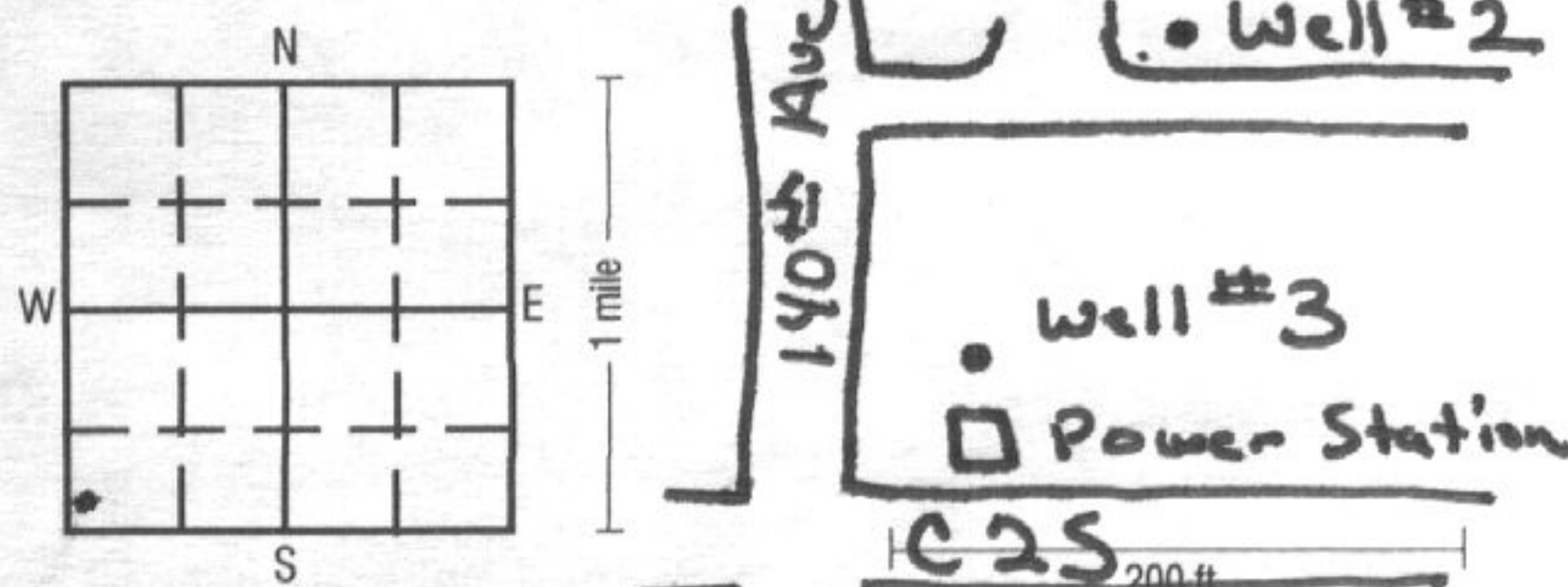


Site identification Layer Site # 3
Property Owner Rembran St Enterprise Well Number 3
Address Blacktop C25 - 1 mile east of HWY 71
Tenant None
Well Depth 452 ft Date completed 1 / 8 / 02

Location County Buena Vista
400' N and 1 mi. E of intersection of HWY 71 and C25
SW 1/4 of the SW 1/4 of the SW 1/4 of Sec 32 TWP 93 RNG 36 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) _____

Formation log				
From	To	Color	Hardness	Formation description
0	2			Top soil
2	5			Yellow Clay
5	21			Sandy
21	48			Blue Clay
48	62			Green Clay
62	110			Blue Clay
110	122			Green Clay
122	140			Yellow Clay
140	205			Blue Clay
205	243			Blue Shale
243	380			Shales / White / Sand
380	390			Gray Shale
390	420			Sandstone / Shale
420	452			Good Sandstone
452	453			Shale
453	460			Sandstone
460	473			Red Shale

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)
Draw down 150' after 3 Hrs @ 280 gpm
Recovery 130'-6" after 1 minute shutdown

Well use
☐ Domestic ☐ Municipal ☐ Commercial
☒ Livestock ☐ Public supply ☐ Monitoring
☐ Test well ☐ Irrigation ☐ Other _____ (explain)

Drill method ☒ rotary ☐ auger ☐ cable other _____
Hole size
13 inch from 0 ft to 420 ft
7 7/8 inch from 420 ft to 452 ft

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

Casing		Drive shoe (yes/no)	Pitless adapter (yes/no)		
Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)	
8" ID	Steel / 30#	18'4"	420'	421'	
5" ID	PVC / 250	404'-6"	420'	16'	

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

Casing grouted? (yes/no) no Placement method Trimme
Type Depth Top Depth bottom Amount (vol/wt)
Bentonite Surface 400' 1400 gallons

Well screen? (yes/no) no
Diameter Slot size Depth Top Depth Bottom Length Material
5" tele 0.018 420 452 32' Stainless Steel

Bottom capped (yes/no) no with S.S. Bail Bottom
Seals / Packers (yes/no) no kind _____ depth _____ ft
Gravel packed (yes/no) no from 404 ft to 452 ft
type 16/30 silica amount 1300#

Well developed? (yes/no) no
Explain Bailed
(pumped, airlifted, bailed) for 5 hrs at 30 GPM.

Pump installed? (yes/no) 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 420 ft to 453 ft ☐ seepage well
Static water level 129'-6" (below / above) GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
Pumping water level 150' ft below GL; ☐ tape ☐ airline ☒ E-line ☐ estimate
At yield of 280 GPM; ☐ orifice ☒ volumetric ☐ estimate
Measurements taken at 1:45 (AM/PM) PM Date 10/31/01

Water quality test? (yes/no) no Date tested _____ / _____ / _____
Tested by Mangold Environmental

Contractor Middendorff Well Co
Address Sioux Rapids IA
Driller Larry Steece Certification no. 40492