

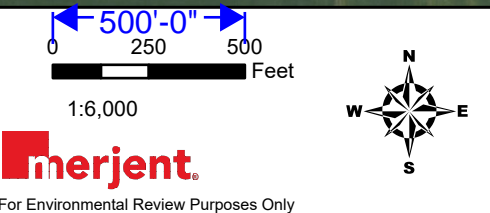
CF Discharge:
 Primary - discharge permit (new)
 Secondary - City of Goldfield

EP Discharge:
 NPDES Permit 9937101 valid through 8/31/2027; authorizes discharge of COOLING TOWER BLOWDOWN, REVERSE OSMOSIS REJECT WATER AND WATER FROM WATER SOFTENER REGENERATION to UNNAMED CREEK TO BUTTERMILK CREEK.

Outfall:
 Outfall location approximated from NDPES permit; pathway to outfall unknown/to be confirmed

Corn LP property

Well Location



Aerial Facility and Outfall Map
Corn LP
 Summit Carbon Solutions
 Goldfield, Wright County, Iowa

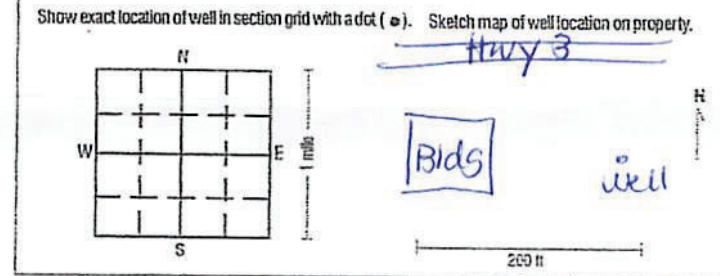
- Facility Boundary
- Municipal Boundary
- Impaired Stream (2016)
- Capture Facility Location
- NHD Waterbody (Flowline)
- Outfall Location
- Designated River

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

PWTS Well No. _____

Site identification 216444
 Property Owner Centurion Poultry Other ID _____
 Address _____
 Tenant _____
 Well Depth 255 ft Date completed 8/14/12

Location County Wright
 _____ mi. ^N and _____ mi. ^E of intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ R_{NG} _____ E _____ W _____
 GPS Coordinates (NAD83 datum only) decimal degrees:
 _____ N. Latitude _____ W. Longitude.



Drill method rotary auger cable other _____
Hole size
9 7/8 inch from 0 ft to 243 ft hole size continued _____ inch from _____ ft to _____ ft
5 7/8 inch from 243 ft to 255 ft _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.
Casing Drive shoe (yes/no) _____ Pileless adapter (yes/no) _____

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
<u>6 1/4</u>	<u>PVC</u>	<u>+2</u>	<u>243</u>	<u>245</u>

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 (vol/wt)
<u>Benseal</u>	<u>0</u>	<u>243</u>	<u>22 bags</u>

upland hillside valley level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	2	Black	S	Topsoil
2	12	yellow	S	Clay
12	14	brown	S	Clay
14	42	blue	S	Clay
42	45	dark blue	S	Shale & Sand
45	77	blue	S	Clay
77	110	blue	S	Sandy clay
110	119	green	S	Shale
119	132	dark gray	S	Clay
132	135	yellow	S	Clay
135	162	yellow orange	S	Sand & Gravel
162	164	gray	S	Clay
164	165	red	S	Sand
165	166	gray	S	Clay

use additional sheets as needed

Well screen? (yes/no)

Diameter	Slot size	Depth top	Depth bottom	Length	Material
0	0				
0	0				

 Bottom capped (yes/no) with _____
 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 _____ hrs at _____ 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 245 ft to 394 ft seepage well
 Static water level 46 ft (below/above) GL; tape airline E-line estimate
 Pumping water level 80 ft below GL; tape airline E-line estimate
 At yield of 40 GPM; orifice volumetric estimate for 3 hours
 Measurements taken at 3:00 (AM/PM) Date 8/14/12

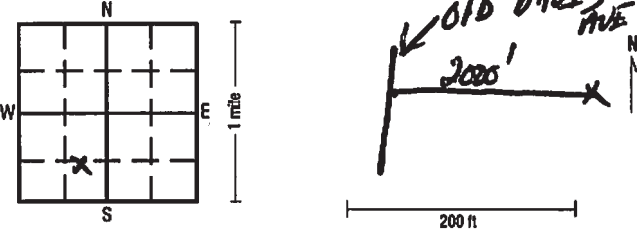
Remarks (including depth of lost drilling fluids, materials, or tools)

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

Well use
 Domestic Heat pump Commercial Monitoring
 Livestock Municipal Public supply Other
 Test well Irrigation
 By _____

Contractor Schumacher Well Drilling
 Address 2201 Slagle Dr. Algona
 Driller Jeremy Walker Certification no. 6087

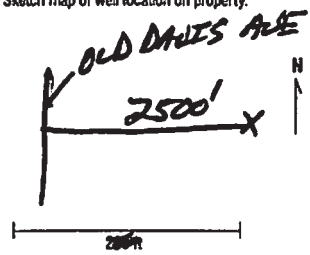
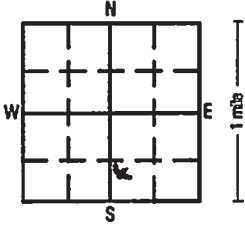
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Contractor Company <u>Schumacher Well Drilling</u> Address _____ Driller <u>J Walker</u> Certification no. <u>6087</u>																																																																																																								
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Site identification Property Owner <u>Central Jr Removable</u> Well Number <u>2109222</u> Address <u>PO 280 Goldfield Jr</u> Tenant <u>None</u> <u>50542</u> Well Depth <u>387</u> ft Date completed <u>6/21/05</u>					Drill method <input checked="" type="checkbox"/> rotary <input type="checkbox"/> auger <input type="checkbox"/> cable other _____ Hole size <u>12 1/4</u> inch from <u>0</u> ft to <u>158</u> ft <u>7 1/8</u> inch from <u>158</u> ft to <u>387</u> ft hole size continued _____ inch from _____ ft to _____ ft																																																																																												
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<u>165</u>	<u>180</u>	<u>BRN</u>	<u>"</u>	<u>"</u>																																																																																													
<u>180</u>	<u>185</u>	<u>BRN</u>	<u>"</u>	<u>"</u>																																																																																													
<u>185</u>	<u>189</u>	<u>BRN</u>	<u>"</u>	<u>"</u>																																																																																													
<u>189</u>	<u>191</u>	<u>BLK</u>	<u>"</u>	<u>"</u>																																																																																													
<u>191</u>	<u>338</u>	<u>BRN</u>	<u>"</u>	<u>"</u>																																																																																													
<u>338</u>	<u>386</u>	<u>GRY</u>	<u>"</u>	<u>"</u>																																																																																													
Diameter	Slot size	Depth Top	Depth Bottom	Length	Material																																																																																												
<u>0</u>	<u>---</u>																																																																																																
<u>0</u>	<u>---</u>																																																																																																
Elevation (if known) _____ Dupland <input type="checkbox"/> hillside <input type="checkbox"/> valley					Well developed? (yes/no) <input checked="" type="checkbox"/> Explain _____ (pumped, shifted, bailed) for <u>3</u> hrs at <u>350</u> GPM.																																																																																												
Remarks (including depth of lost drilling fluids, materials, or tools)					Pump installed? (yes/no) <input checked="" type="checkbox"/> Date ____/____/____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM																																																																																												
use additional sheets as needed					Water information Aquifer: <input type="checkbox"/> sand / gravel <input checked="" type="checkbox"/> limestone <input type="checkbox"/> sandstone Main water-supply zone from <u>340</u> ft to <u>387</u> ft <input type="checkbox"/> seepage well Static water level <u>31</u> ft (below/above) GL: <input checked="" type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input type="checkbox"/> estimate Pumping water level <u>100</u> ft below GL: <input type="checkbox"/> tape <input type="checkbox"/> airline <input type="checkbox"/> E-line <input checked="" type="checkbox"/> estimate At yield of <u>350</u> GPM; <input type="checkbox"/> orifice <input checked="" type="checkbox"/> volumetric <input type="checkbox"/> estimate Measurements taken at <u>10:00</u> (AM/PM) Date <u>6/21/05</u>																																																																																												
Well use <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Public supply <input type="checkbox"/> Monitoring <input type="checkbox"/> Test well <input type="checkbox"/> Irrigation <input type="checkbox"/> Other _____ (explain)					Water quality test? (yes/no) <input checked="" type="checkbox"/> Date tested ____/____/____ Tested by <u>MORP'S WELL CO.</u> Contractor <u>BOX 715</u> Address <u>LATIMER IA 50452</u> Driller <u>[Signature]</u> Certification no. <u>1887</u>																																																																																												

WELL #4
 61067

Site identification LEWIS IA REVENUE 2110863
 Property Owner CORN LP Well Number _____
 Address PO 280 BOLD FIELD, IA
 Tenant SAME
 Well Depth 270 ft Date completed 8/14/05

Location County WRIGHT
1/4 and 5/8 of intersection of DMS and HWY 3
NE 1/4 of the SW 1/4 of the SE 1/4 of Sec 34 TWP 92 RNG 26 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	4	BLK	SOFT	TOPSOIL
4	15	BRN	"	SANDY CLAY
15	60	GRY	"	"
60	79	GRY	"	SANDY CLAY
79	135	GRY	"	SANDY CLAY
135	178	GRY	"	SANDY CLAY
178	185	BRN	HARD	LIMESTONE
185	187	BRN	MED	SAND
187	188	BRN	"	BROKEN LIMESTONE
188	226	"	"	LIMESTONE
226	230	"	"	BROKEN LIMESTONE
230	249	TAN	HARD	LIMESTONE
249	252	BRN	"	BROKEN LIMESTONE
252	257			VOID
257	265	BRN	MED	BROKEN LIMESTONE
265	270		HARD	LIMESTONE

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

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

Drill method rotary auger cable other _____
 Hole size 1 3/4 inch from 0 ft to 189 ft
7/8 inch from 189 ft to 270 ft

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

Casing Size (I.D.)	Type / Wt	Drive shoe (yes/no)		Pitress adapter (yes/no)		Amount (length)
		Depth top	Depth bottom	Depth top	Depth bottom	
8"	.332 wpt STEEL	72	189			191

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

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

Type	Depth Top	Depth bottom	Amount (vol/wt)
BRN SEAL	0	189	48 BARS 1440 GAL

Well screen? (yes/no) _____

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
0					
0					

Bottom capped (yes/no) _____ with _____
 Seals / Packers (yes/no) _____ kind _____ depth _____ ft
 Gravel packed (yes/no) _____ from _____ ft to _____ ft
 type _____ amount _____

Well developed? (yes/no) _____
 Explain (pumped, airlifted, balled) for 24 hrs at 350 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 226 ft to 270 ft seepage well
 Static water level 36 ft (below/above) GL; tape airline E-line estimate
 Pumping water level 100 ft below GL; tape airline E-line estimate
 At yield of 350+ GPM; orifice volumetric estimate
 Measurements taken at 4 (AM/PM) Date 8/14/05

Water quality test? (yes/no) _____ Date tested ____/____/____
 Tested by MORT'S WELL CO.

Contractor BOX 715
 Address LATIMER IA 50452
 Driller Joe Certification no. 1887