Well Registration or Area Permit

Fee Paid: $110.00 HHSS Fee: $70.00
DNR Cash Fund: $18.50 WWDF: 21.50
Billing ID: 37235

Source:	Nebraska On Line	Import Status:	Accepted	Use:	Irrigation	Owner ID:	122164
Import ID:	135524068325492	Status:	Active Registered Well	Decommission Date:	__	Registration Number:	G-165091
Well ID:	220323	NRD:	Lower Big Blue			Registration Date:	12/12/2012
Last Change User:	hsparks	Call Up Code:	__	Call Up Date:	__	Last Change Date:	12/12/2012

Owner:

Select Contact

Contact ID	Type	SeqNum	Begin Date	End Date	Name
Edit Display 122164	Owner	1	12/12/2012		Maschman Ag Inc, Delete

Contractor:

Certificate ID	FirstName	LastName
3919403	Loren C.	Taylor

Drilling Firm:

EmployerID	Employer
Delete 397913	Charles Sargent Irrigation Inc - Geneva

A. Well Location: NW1/4SE1/4 of Section 20
Township 4 North, Range 2 (East E/W), Jefferson County
B. Natural Resource District: Lower Big Blue

	Latitude	Longitude	
Well GPS Coordinates:	40° 17' 43.50''	-097° 13' 20.90''	GPS Required
Lat/Long DD	40.29542	-97.22247	

C. The well is: 1362 feet from the S Section line and 1381 feet from the E section line.
D. Street address or block, lot and subdivision: Addr/Sub Div __ Block No __ Lot __
E. Location of water use, if applicable (give legal description): SE S20 T4 R2E
G. Well reference letter(s) if applicable: __

Well In A Series

Well Part of a Series with Site Plan: No

Series	# of Wells	Reg Total # Wells	Acres	Acres Cert	NRD Appr	StartDate	EndDate	Comment	Series Reg Num (External Source)	Code	Description	Wells in the Series
219120		135	No	No	12/4/2012					PRO	Single Project	WellID RegCD StartDate EndDate: 220323 G-165091 12/4/2012

Permits

			Aprvd Date(s)			Aprvd Date(s)
Area Permit	LBB-	771	9/26/2012	SWater App Code	__ __	__
GeoPermit	__	__	__	Industrial	__ __	__
MWF	__	__	__	Transfer	__ __	__
WSP	__	__	__	Swater Conduct Code	__ __	__
HHSS		__		Other	__	__
HHSS PWS ID		__		ITN	__	__
NDEQ		__				

5. Purpose of Well Irrigation
Other Use __
Notes __

7. Replacement well information.

Well Considered a replacement by NRD(WellID, RegCD)

A. Is this well a Replacement well? No Repl No __ NRD Approval Date __ Well Replacement Reg CD
B. Registration number of abandoned well: __ If not registered, date abandoned well was constructed __
C. Abandoned well last operated __ D. Replacement well is __ feet from abandoned well.
E. Original well pump column size: __ inches.

F. [ ] Original water well decommissioned __
[ ] I hereby certify that the original water well will be decommissioned within 180 days after such construction of the replacement water well.
[ ] I hereby certify that the original water well will be modified and equipped to pump 50 gallons per minute or less within 180 days after such construction of the replacement water well.
[ ] Livestock
[ ] Monitoring
[ ] Observation
[ ] Nonconsumptive or de minimus use approved by the applicable natural resources district. __
[ ] Decommission/Modification certification form is submitted by landowner (Must be submitted before registering well)

G. Location of water use of original well: __

Decommission Information

Decommission Date: __ By

8. Pump Information.

A. Is Pump installed at this time? Yes

Pump present but Well Inactive: No

Free Flowing Well: No

Well active, no pump installed: No

B. License No.

CertificateID	FirstName	LastName	Employer
39454	Nathan R	Jacobson	Charles Sargent Irrigation, Inc

C. Pumping Rate 1000 gallons per minute.

D. Pumping water level 104 feet.

E. Drop pipe diameter 8 inches.

F. Length of pipe 160 in feet.

G. Pump equipment installed: 12/4/2012

H. Pump Brand/Type Sargent Pipe Company

I. This well wll be used to pump less than 50 gpm? No

9. Well Construction Information

A. Total well depth: 271 feet.

B. Static water level 96 feet.

C. Well Construction began: 11/27/2012

D. Well Construction Completed: 12/4/2012

E. Bore hole diameter in inches. Top 30 Bottom 30

F. Casing and Screen Joints are: Glued

Other Joints description: __

H. Total Estimate Capacity of Well 1000 gallons per minute.

I. Pumping water level at capacity: 104 feet.

10. Well Construction (Casing & Screen) - c, d, e & f measurements should be in inches to three decimal places

Record Count = 2

WellID	FromDepth*	ToDepth*	Case/Screen	InsideDiam	OutsideDiam	CaseThickness	ScrnSlotSize	Material	ScreenTname
220323	0	191	casing	14.75	16	0.625		Plastic	PVC
220323	191	271	screen	14.75	16	0.625	0.05	Plastic	PVC

* are in Feet, all else is in inches

11. Grout and Gravel Pack

Record Count = 4

WellID	FromDepth	ToDepth	Grout/Gravel	Material Description[1]	Quantity Gravel[2]	Volume &Type Grout[3]
220323	5	10	grout	Bentonite Seal		.5 Super Sack
220323	10	95	gravel	Gravel Well Pack	17 Cubic Yards	
220323	95	100	grout	Bentonite Seal		.5 Super Sack
220323	100	271	gravel	Gravel Well Pack	37 Cubic Yards	

* are in Feet, all else is in inches

[1]Description of gravel pack, i.e. engineered gravel pack, or gravel pit description (1/4 down) or brand name (best sand) natural formation, drilling cuttings, soil backfill

[2]Quantity #cubic yards, #Tons, #Sacks - (for drilling cuttings and soil backfill estimate quantity) Calculation assistance available on web

[3]Volume & Type: #gallons of a slurry, #Barrels of a slurry, #sacks used in the slurry, #Bags of non-slurry bentonite (chip-pellet-granular)

12. Well Geologic Materials Logged

WellID	FromDepth*	ToDepth*	Type	Hardness	Color	Other/Drilling Action
220323	0	20	Top Soil	Loose	Brown	brown clay
220323	20	40	Clay	Loose	Brown	& tan
220323	40	55	Clay	Dense/Stiff	Brown	
220323	55	60	Sandy Clay	Dense/Stiff	Brown	
220323	60	80	Fine Sand	Loose	Tan	clay layers
220323	80	88	Fine Sand	Loose	Tan	
220323	88	98	Clay	Dense/Stiff	Tan	& blue
220323	98	100	Sand fine-med	Dense/Stiff	Tan	
220323	100	108	Fine Sand	Dense/Stiff	Tan	
220323	108	120	Sand med-coarse	Dense/Stiff	Tan	medium gravel
220323	120	140	Sand med-coarse	Dense/Stiff	Tan	fine gravel
220323	140	160	Sand med-coarse	Dense/Stiff	Tan	fine sand layer
220323	160	180	Sand med-coarse	Dense/Stiff	Tan	medium gravel
220323	180	200	Sand med-coarse	Dense/Stiff	Tan	brown clay strip
220323	200	220	Sand fine-med	Dense/Stiff	Tan	trace of gravel
220323	220	240	Sand fine-med	Dense/Stiff	Tan	clay strips
220323	240	260	Sand fine-med	Dense/Stiff	Tan	fine gravel
220323	260	280	Sand fine-med	Dense/Stiff	Tan	medium gravel
220323	280	300	Sand med-coarse	Dense/Stiff	Tan	clay strip

* are in Feet.