WATER WELL RECORD Form WWC-5

☐ Original Record ☐ Correction ☐ Change in Well Use

Division of Water Resources App. No. ____ Well ID ____

1 LOCATION OF WATER WELL: County: Russell

Fraction	Section Number	Township Number	Range Number
SE ¼ ¼ ¼ ¼	18	T 12 S	R 13 ☐ E ☒ W

2 WELL OWNER: Last Name: Beran First: craig
Business:
Address: 1350 NE 100th Ave
Address:
City: claflin State: KS ZIP: 67525

Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: ☐
188th & mallard Rd
(1 1/3 mi N on west side Rd)

3 LOCATE WELL WITH "X" IN SECTION BOX:

N
NW | NE
W | E
SW | SE X
S
|---------1 mile---------|

4 DEPTH OF COMPLETED WELL: 75 ft.
Depth(s) Groundwater Encountered: 1) 65 ft. 2) ..... ft. 3) ..... ft., or 4) ☐ Dry Well
WELL'S STATIC WATER LEVEL: 45 ft.
☐ below land surface, measured on (mo-day-yr).....
☐ above land surface, measured on (mo-day-yr).....
Pump test data: Well water was ..... ft. after..... hours pumping ..... gpm
Well water was ..... ft. after..... hours pumping ..... gpm
Estimated Yield: 15 gpm
Bore Hole Diameter: 8 in. to 75 ft. and ..... in. to ..... ft.

5 Latitude: .....(decimal degrees)
Longitude: .....(decimal degrees)
Datum: ☐ WGS 84 ☐ NAD 83 ☐ NAD 27
Source for Latitude/Longitude:
☐ GPS (unit make/model: .....)
(WAAS enabled? ☐ Yes ☐ No)
☐ Land Survey ☐ Topographic Map
☐ Online Mapper: .....

6 Elevation: .....ft. ☐ Ground Level ☐ TOC
Source: ☐ Land Survey ☐ GPS ☐ Topographic Map
☐ Other .....

7 WELL WATER TO BE USED AS:
1. Domestic: ☐ Household ☐ Lawn & Garden ☒ Livestock
2. ☐ Irrigation
3. ☐ Feedlot
4. ☐ Industrial
5. ☐ Public Water Supply: well ID .....
6. ☐ Dewatering: how many wells? .....
7. ☐ Aquifer Recharge: well ID .....
8. ☐ Monitoring: well ID .....
9. Environmental Remediation: well ID ..... ☐ Air Sparge ☐ Soil Vapor Extraction ☐ Recovery ☐ Injection
10. ☐ Oil Field Water Supply: lease .....
11. Test Hole: well ID ..... ☐ Cased ☐ Uncased ☐ Geotechnical
12. Geothermal: how many bores? ..... a) Closed Loop ☐ Horizontal ☐ Vertical b) Open Loop ☐ Surface Discharge ☐ Inj. of Water
13. ☐ Other (specify): .....

Was a chemical/bacteriological sample submitted to KDHE? ☐ Yes ☐ No If yes, date sample was submitted: .....
Water well disinfected? ☒ Yes ☐ No

8 TYPE OF CASING USED: ☐ Steel ☐ PVC ☐ Other ..... CASING JOINTS: ☒ Glued ☐ Clamped ☐ Welded ☐ Threaded
Casing diameter 5 in. to 75 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface ..... in. Weight ..... lbs./ft. Wall thickness or gauge No. #200
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☐ Fiberglass ☒ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ Concrete tile ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous Slot ☐ Mill Slot ☐ Gauze Wrapped ☐ Torch Cut ☐ Drilled Holes ☐ Other (Specify) factory perf
☐ Louvered Shutter ☐ Key Punched ☐ Wire Wrapped ☐ Saw Cut ☐ None (Open Hole)
SCREEN-PERFORATED INTERVALS: From 75 ft. to 55 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 75 ft. to 54 ft., From 40 ft. to 20 ft., From ..... ft. to ..... ft.

9 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☒ Bentonite ☐ Other .....
Grout Intervals: From 54 ft. to 40 ft., From 20 ft. to 0 ft., From ..... ft. to ..... ft.
Nearest source of possible contamination:
☐ Septic Tank ☐ Lateral Lines ☐ Pit Privy ☐ Livestock Pens ☐ Insecticide Storage
☐ Sewer Lines ☐ Cess Pool ☐ Sewage Lagoon ☐ Fuel Storage ☐ Abandoned Water Well
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well
☐ Other (Specify) none
Direction from well? ..... Distance from well? ..... ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
			75	3	cement plug
			3	0	top soil dirt slope
					to the west
			Notes:		13 bags cement - free fall method

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☐ constructed, ☐ reconstructed, or ☒ plugged under my jurisdiction and was completed on (mo-day-year) 9-9-13 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 870 This Water Well Record was completed on (mo-day-year) 9-12-13 under the business name of Bushell Water Well Service

INSTRUCTIONS: Send one copy to WATER WELL OWNER and retain one copy for your records. Submit fee of $5.00 for each constructed well along with one (white) copy to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone (785) 296-3565.

Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 9/10/2012

13-240-2101

DATE REPORTED:
08/28/13

Midwest Laboratories Inc.®

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DATE RECEIVED: 08/22/13

LIVESTOCK WATER ANALYSIS

17539

AGCO
ALLEN WEIMASTER/RON FRITSCHEN
PO BOX 668
RUSSELL KS 67665-

WATER ANALYSIS

ANALYTICAL RESULTS

SAMPLE ID: WATER SAMPLE
LABORATORY NUMBER: 2173603

PARAMETER	SODIUM	CALCIUM	MAGNESIUM	pH	NITRATE	SULFATE	CONDUCTIVITY	TOTAL DISSOLVED SOLIDS	HARDNESS	TOTAL COLIFORM	IRON	MANGANESE	CHLORIDE	COPPER
METHOD	EPA 200.7	EPA 200.7	EPA 200.7	EPA 150.1	EPA 300.0	EPA 300.0	EPA 120.1		SM 2340B	SM 9223B	EPA 200.7	EPA 200.7	EPA 300.0	EPA200.7
UNITS	Na ppm	Ca ppm	Mg ppm		NO_3-N ppm	SO_4 ppm	mmhos / cm	TDS ppm	gr / gallon	MPN / 100 mL	Fe ppm	Mn ppm	Cl ppm	Cu ppm
LEVEL FOUND	2814	134	144	7.17	n.d.	1230	12.74	8281		2282	4.46		3600	0.01
CAUTION LEVEL	150	150	80	6.5/9.0	25	300	1.50	1000		0	0.3		500	0.3

INTERPRETATION

PARAMETER	SODIUM	CALCIUM	MAGNESIUM	pH	NITRATE	SULFATE	CONDUCTIVITY	TOTAL DISSOLVED SOLIDS	HARDNESS	TOTAL COLIFORM	IRON	MANGANESE	CHLORIDE	COPPER
METHOD	EPA 200.7	EPA 200.7	EPA 200.7	EPA 150.1	EPA 300.0	EPA 300.0	EPA 120.1		SM 2340B	SM 9223B	EPA 200.7	EPA 200.7	EPA 300.0	EPA200.7
UNITS	Na ppm	Ca ppm	Mg ppm		NO_3-N ppm	SO_4 ppm	mmhos / cm	TDS ppm	gr / gallon	MPN / 100 mL	Fe ppm	Mn ppm	Cl ppm	Cu ppm
GRAPHIC														

No Apparent Problems
Potenial Problems
Problems Likely
Level Exceeds EPA Limits

ADDITIONAL PARAMETERS

PARAMETER							
METHOD							
UNITS							
LEVEL FOUND							

Heather Ramig
Client Service Representative
heather@midwestlabs.com (402) 829-9891

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

For applicable test parameters, Midwest Laboratories is in compliance with NELAC requirements.

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U.S. EPA WATER QUALITY GUIDELINES FOR HUMAN CONSUMPTION

Sodium (Na)	Less than 20 ppm: No adverse effects	20-80 ppm: Persons on restricted sodium diets should consult a physician concerning use.	More than 80 ppm: Should be used sparingly by persons on low-sodium diets.
Calcium (Ca)	Less than 80 ppm: No adverse effects	80-150 ppm: Hard water problems such as scale formation can be expected.	More than 150 ppm: May be associated with high levels of sulfate (see sulfate below). Extreme hardness is undesirable for household use.
Magnesium (Mg)	Less than 30 ppm: No adverse effects	30-80 ppm: Contributes to hardness when associated with high calcium levels.	More than 80 ppm: When associated with high sulfate, is likely to have a laxative effect (magnesium sulfate is Epsom Salts).
pH	Less than 6.5: Corrosive to metal	6.5-8.5: No adverse effects	Higher than 8.5: Possible bitter taste, and germicidal activity of chlorine is reduced, corrosive to pipes.
Nitrate Nitrogen (NO_3-N)	Less than 2 ppm: No adverse effects	2-10 ppm: No acute toxicity. Could have some negative health effects in young children.	More than 10 ppm: Increasing probability of health effect in children under 6 months of age due to reduced oxygen carrying capacity of the blood.
Sulfate (SO_4)	Less than 250 ppm: No adverse effects	250-500 ppm: Likely to have a laxative effect, especially when first introduced. Diarrhea may or may not persist.	More than 500 ppm: Strongly laxative.
Conductivity	Less than 0.30: Extremely pure water can be corrosive to metal.	0.30-1.50: No adverse effects	Greater than 1.50: High levels of dissolved solids (see below).
Total Dissolved Solids (TDS)	Less than 200 ppm: No adverse health or nutritional effects. May be corrosive if extremely pure.	200-1000 ppm: No adverse effects	More than 1000 ppm: Increasingly adverse effects, especially diarrhea. Water loses esthetic effect.
Hardness	Less than 6 gr/gal: No adverse effects (17.1 mg/L CaCO3 = (1 gr/gal)	6-12 gr/gal: Some scale may form in pipes and water heaters. Softening may be desirable.	More than 12 gr/gal: Scale will form rapidly and laundry will not come clean. Softening for household use is desirable.
Total Coliform*	Negative: No coliform bacteria present in 100 mL of water.		Positive: Water is contaminated with coliforms (sewage) bacteria. Disease transmission is possible if unpurified water is used. EPA restrictions on coliforms is less than 1 colony forming unit (cfu) per 100 mL of water.
Iron (Fe)	Less than 0.3 ppm: No adverse effects	0.3-1.0 ppm: Some staining will occur	More than 1.0 ppm: Iron oxide (rust) will cause extensive staining and will precipitate out, forming a red sludge. Taste will be bitter.
Manganese (Mn)	Less than 0.05 ppm: No adverse effects	0.05-0.50 ppm: May cause black or brown staining of pipes, sinks, and laundry.	More than 0.50 ppm: Besides the staining effect, will cause a metallic taste.
Chloride (Cl)	Less than 200 ppm: No adverse effects	200-500 ppm: Increasingly salty taste.	More than 500 ppm: Very salty taste.

*Holding/Transit time between sampling and analysis cannot exceed 48 hours. If this time has been exceeded, the results might be invalid.
N.D. = Not Detected
EPA Guidelines suggest less than 0.015 ppm (mg/L) for Lead (Pb) and 1.30 ppm (mg/L) for Copper (Cu).

02/2004