

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: Nemaha

Fraction
SW 1/4 NW 1/4 NE 1/4

Section Number
4

Township Number
T 2 S

Range Number
R 14 E ☒ W

2 WELL OWNER: Last Name: Beyer First: Koertland

Business:
Address: 2152 192 Rd

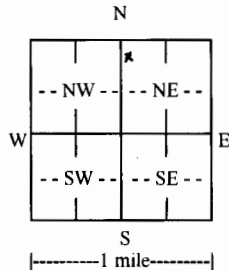
Address:

City: Sabetha

State: KS ZIP: 66534

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: ☒

3 LOCATE WELL WITH "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: 147 ft.

Depth(s) Groundwater Encountered: 1) 22-29 ft.

2) 128-131 ft. 3) ft., or 4) ☐ Dry Well

WELL'S STATIC WATER LEVEL: 100-5 ft.

☒ below land surface, measured on (mo-day-yr) 10-16-18

☐ 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: 3-4 gpm

Bore Hole Diameter: 8 in. to 147 ft. and

..... in. to ft.

5 Latitude: (decimal degrees)

Longitude: (decimal degrees)

Horizontal 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 diameter in. to 147 ft. Diameter in. to ft. Diameter in. to ft.

Casing height above land surface 20 in. Weight lbs./ft. Wall thickness or gauge No. SAR 21

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)

☐ Louvered Shutter

☐ Key Punched

☐ Wire Wrapped

☐ Saw Cut

☐ None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 117 ft. to 147 ft. From ft. to ft. From ft. to ft.

GRAVEL PACK INTERVALS: From 21 ft. to 47 ft. From ft. to ft. From ft. to ft.

9 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☒ Bentonite ☐ Other Compacted clay

Grout Intervals: From 0 ft. to 8 ft. From 8 ft. to 21 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 known

Direction from well? Distance from well? ft.

10 FROM TO LITHOLOGIC LOG FROM TO LITHO. LOG (cont.) or PLUGGING INTERVALS

0 1 Topsoil - black 103 112 Shale with chert - tan to gray

1 15 Silty clay - tan - unstable 112 118 Shale - red to gray

15 22 Clay - lt. gray 118 125 Shaley limestone with chert, gravel - gray - unstable

22 61 Sandy, gravelly clay - yellow - unstable 125 131 Shale with chert - gray to tan

61 64 Clay, some small gravel - yellow 131 143 Shale - multi-colored

64 73 Shale - tan 143 147 Shaley limestone - lt. gray

73 77 Shaley limestone, some chert - tan Notes:

77 90 Shale, chert - multi-colored - hard

90 103 Shale - red

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) 10-16-18 and this record is true to the best of my knowledge and belief.

Kansas Water Well Contractor's License No. 951 This Water Well Record was completed on (mo-day-year) 10-19-18

under the business name of Meyer Well Drilling Signature Steven E. Meyer

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, GWTS Section,

1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524.

Visit us at <http://www.kdheks.gov/waterwell/index.html>

KSA 82a-1212

Revised 7/10/2015

Berwick Co-op Oil Co.

1111 South Old Hwy 75 • Sabetha, KS 66534
785-284-2227 • 800-930-2227 • Fax 785-284-2060

~ UNLEADED ~ DIESEL ~ ETHANOL ~ PROPANE ~ BULK OIL ~

This was a very unstable formation, especially from the 8 ft. to 29 ft. zone. Because of groundwater encountered at the 22 ft. to 29 ft. zone and the low yield at the 120 ft. to 121 ft. zone, the homeowner wanted to be able to utilize the flow coming from the upper zone also.

Surface casing was driven to 61 ft. 6". As it was pulled, the annulus was gravel packed up to 21 ft. with the intention to seal with grout from 1 ft. to 21 ft. When the last section of surface casing above 21 ft. was pulled, the hole collapsed and filled up to the 8 ft. level with presumably clay & silty clay, preventing the annulus to be grouted as intended. It was then grouted from ground level to 8 ft.

This well was drilled with a cable tool rig. Due to the extended time required with this method, delays due to extreme rainy weather conditions, and a very unstable formation in several zones, this was a difficult well to drill.

RECEIVED

OCT 24 2018

BUREAU OF WATER

Steven Meyer / ^{Meyer} Well Drilling

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The Homeowner has been instructed by Steve Meyer as requested by Pam Chaffee, KDHE, Bureau of Water, GWTS Section, that extreme caution needs to be exercised to avoid any potential contaminants to come within the immediate area of this well, such as fuels, herbicides, pesticides, livestock, etc. and to potentially percolate down through the top ground strata formations and infiltrate the groundwater zone of saturation. Homeowner was also made aware that fine sand or silt from the 22 ft. to 29 ft. zone may or may not be an infiltration potential into the screened area of the well casing and the pumped water.

Steve Meyer / Meyer Well Drilling