

WATER WELL RECORD Form WWC-5

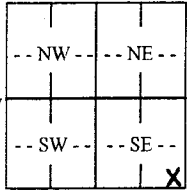
Division of Water Resources App. No.

Well ID MW3

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Gove	Fraction SE ¼ SE ¼ SE ¼ SE ¼	Section Number 3	Township Number T 11 S	Range Number R 30 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: First: Business: Frontier Aq., Inc. Address: PO Box 248, 415 W. 2nd Address: City: Oakley State: KS ZIP: 67748	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: <input type="checkbox"/> 100 Railroad Ave., Grinnell, KS
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3 LOCATE WELL WITH "X" IN SECTION BOX: N  W E S 1 mile	4 DEPTH OF COMPLETED WELL: 113.5 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 99.66 ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) 9/15-16/15 <input type="checkbox"/> 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: gpm Bore Hole Diameter: in. to ft. and in. to ft.	5 Latitude: 39.11903 (decimal degrees) Longitude: 100.62749 (decimal degrees) Horizontal Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper: 6 Elevation: 2904.66 ft. <input type="checkbox"/> Ground Level <input checked="" type="checkbox"/> TOC Source: <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other
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7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2. <input type="checkbox"/> Irrigation 3. <input type="checkbox"/> Feedlot 4. <input type="checkbox"/> Industrial	5. <input type="checkbox"/> Public Water Supply: well ID 6. <input type="checkbox"/> Dewatering: how many wells? 7. <input type="checkbox"/> Aquifer Recharge: well ID 8. <input checked="" type="checkbox"/> Monitoring: well ID MW3 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	10. <input type="checkbox"/> Oil Field Water Supply: lease 11. Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water 13. <input type="checkbox"/> Other (specify):
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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 4 in. to 83.5 ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface 0.49 in. Weight lbs./ft. Wall thickness or gauge No.

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 83.5 ft. to 113.5 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 80 ft. to 114.05 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete: 0-1'

Grout Intervals: From 1 ft. to 80 ft., From ft. to 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)

Direction from well? N Distance from well? ~60' ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Gravel			
0.5	5	Organic clay			
5	30	Clayey silt			
30	35	Silty sand			
35	45	Silty sand w/ gravel & clay			
45	70	Sand coarse to fine			
70	75	Clayey sand			
75	114.05	Silty gravel with clay & chalk w/ layers of cemented sand			
			Notes: KDHE ID: Frontier Ag, Inc (Grinnell); U6-032-14725		

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) 6/11/15 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 757 This Water Well Record was completed on (mo-day-year) 10/7/15 under the business name of Larsen & Associates, Inc. Signature

TRITERRA

LAND SERVICES

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SURVEYING OF MONITORING WELLS FRONTIER AG, INC. GRINNELL, KANSAS

The above site is in Section 3, Township 11 South, Range 30 West of the Sixth Principal Meridian, Gove County, Kansas. The Southeast corner of Section 3 was assigned coordinates of 00.00 North and 00.00 West.

The vertical control was an NGS benchmark located in the northwest corner of the intersection of Oak Street and Old Hwy 40 and described as a disk set in the top of the west end of a north headwall of a concrete culvert, 17' north of the Hwy centerline and 45' west of the center of Oak Street. A control point was established as a chiseled 'X' on the northwest corner of the Grinnell Community sign base at the southeast corner of the site.

The Latitude and Longitude were recorded from a GPS unit. The site is located on the 7.5' quad map titled "GRINNELL SOUTH".

ID	NORTH	WEST	LATITUDE	LONGITUDE	ELEVATION
SE Corner Sec 3-T11S-R30W	00.00	00.00			
CP	40.46	54.88	39.11895	100.62745	2905.32
MW-1 SE SE SE SE	151.94	48.39	39.11927	100.62743	RIM 2905.34 TOC 2905.05
MW-2 SE SE SE SE	60.05	156.61	39.11901	100.62779	RIM 2905.77 TOC 2905.42
MW-3 SE SE SE SE	81.92	29.13	39.11903	100.62749	RIM 2905.15 TOC 2904.66
MW-4 SE SE SE SE	169.60	272.16	39.11931	100.62823	RIM 2906.22 TOC 2905.99
MW-5 (Sec 2) SW SW SW SW	59.62	-49.39	39.11900	100.62707	RIM 2905.71 TOC 2905.13
MW-6 (Sec 2) SW SW SW SW	177.29	-50.14	39.11934	100.62708	RIM 2905.56 TOC 2905.03
MW-7 SE SE SE SE	181.52	132.74	39.11934	100.62772	RIM 2905.93 TOC 2905.55

