

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID

MW-7

1 LOCATION OF WATER WELL: County: <u>Seward</u>	Fraction <u>SW 1/4 SW 1/4 SW 1/4 SW 1/4</u>	Section Number <u>29</u>	Township Number <u>T 34 S</u>	Range Number <u>R 33</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: <u>Frontier Fuel</u> Business: <u>Frontier Fuel</u> Address: <u>P.O. Box 148</u> Address: City: <u>Liberal</u> State: <u>KS</u> ZIP: <u>67905</u>	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"/> <u>1502 Tucker Ct., Liberal, KS</u>
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3 LOCATE WELL WITH "X" IN SECTION BOX: N <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">NW</td> <td style="border: 1px solid black; padding: 2px;">NE</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">SW</td> <td style="border: 1px solid black; padding: 2px;">SE</td> </tr> </table> W E S -----1 mile-----	NW	NE	SW	SE	4 DEPTH OF COMPLETED WELL: <u>205</u> ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: <u>179.98</u> ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) <u>6/20/17</u> <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: <u>8.5</u> in. to ft. and in. to ft.	5 Latitude: <u>37.054432</u> (decimal degrees) Longitude: <u>100.939757</u> (decimal degrees) Horizontal Datum: <input type="checkbox"/> WGS 84 <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model: <u>EPOCH</u>) (WAAS enabled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper: 6 Elevation: <u>2861.76</u> 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
NW	NE					
SW	SE					

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Feedlot <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 <u>MW-7</u> 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 165 ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface 6 in. Weight lbs./ft. Wall thickness or gauge No. Sch 40

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 165 ft. to 205 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 162 ft. to 205 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other concrete 0-1ft

Grout Intervals: From 1 ft. to 162 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)

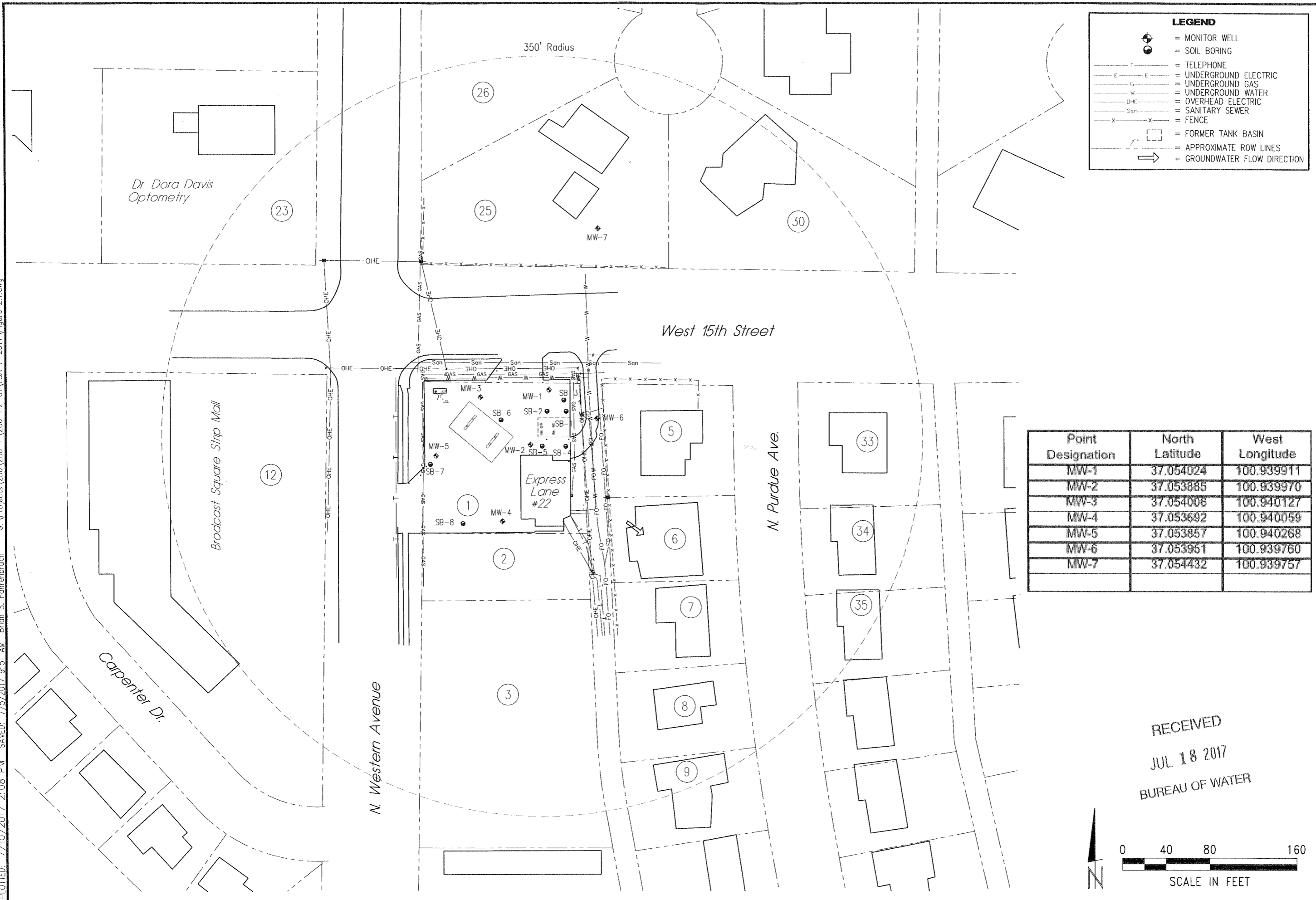
Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Concrete			
0.5	8	Clayey Silt with sand			
8	27	Sand with clay			
27	38	Clayey Silt with caliche and sandy clay			
38	47	Sand with clay			
47	92	Clayey silt and caliche with sandy clay			
92	108	Sandy clay with caliche			
108	179	Clay and caliche with sand and gravel			
179	207	Sand with gravel, clay and caliche			

Notes: Express Lane #22 site; KDHE project code: U1-088-14879

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) 6/16/17 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 881. This Water Well Record was completed on (mo-day-year) 7/11/17 under the business name of Wootter Pump and Well. Signature: _____

PLOTTED: 7/10/2017 2:08 PM SAVED: 7/5/2017 9:51 AM Brian S. Fahrenbruch G:\Projects\286\286-P2-01\LSA 7-2017\Figure 2.1.dwg



LEGEND

- = MONITOR WELL
- = SOIL BORING
- = TELEPHONE
- = UNDERGROUND ELECTRIC
- = UNDERGROUND GAS
- = UNDERGROUND WATER
- = OVERHEAD ELECTRIC
- = SANITARY SEWER
- = FENCE
- = FORMER TANK BASIN
- = APPROXIMATE ROW LINES
- = GROUNDWATER FLOW DIRECTION

Point Designation	North Latitude	West Longitude
MW-1	37.054024	100.939911
MW-2	37.053885	100.939970
MW-3	37.054006	100.940127
MW-4	37.053692	100.940059
MW-5	37.053857	100.940268
MW-6	37.053951	100.939760
MW-7	37.054432	100.939757

RECEIVED
 JUL 18 2017
 BUREAU OF WATER

0 40 80 160
 SCALE IN FEET

REVISIONS	BY
MILCO Environmental Services, Inc. Kearney, NE (308) 237-5923 McCook, NE (308) 345-4741	
EXPRESS LANE #22 SITE BASE MAP - 350' RADIUS 1421 N. WESTERN AVENUE - LIBERAL, KANSAS U1-088-14879	
<small>This document and the data and designs incorporated herein, as an instrument of professional service, is the property of MILCO and is not to be used in whole or in part, for any other project without the written authorization of MILCO.</small>	
SCALE: AS SHOWN	PROJECT NO. M286-P2-01
DATE: JULY, 2017	FIELD BOOK M&A DWG NO.
DRAWN BY: BSF	APRVD BY:
SHEET	

FIGURE 2.1