

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Well ID MW-1

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: <u>Seward</u>	Fraction <u>NW 1/4 NW 1/4 NW 1/4 NW 1/4</u>	Section Number <u>32</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> City: <u>Liberal</u> State: <u>KS</u> ZIP: <u>67905</u>	First: _____ 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>1421 N Western Ave, 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; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 25px; height: 25px; text-align: center;">X</td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> <td style="border: 1px solid black; width: 25px; height: 25px;"></td> </tr> </table> W _____ E S ----- 1 mile -----					X												4 DEPTH OF COMPLETED WELL: <u>194</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>179.00</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>37.054024</u> (decimal degrees) Longitude: <u>100.93991</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: _____
X																		
6 Elevation: <u>2860.56</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 _____																		

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-1</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 154 ft., Diameter _____ in. to _____ ft., Diameter _____ in. to _____ ft.
 Casing height above land surface 4 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 154 ft. to 194 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
GRAVEL PACK INTERVALS: From 152 ft. to 194 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.

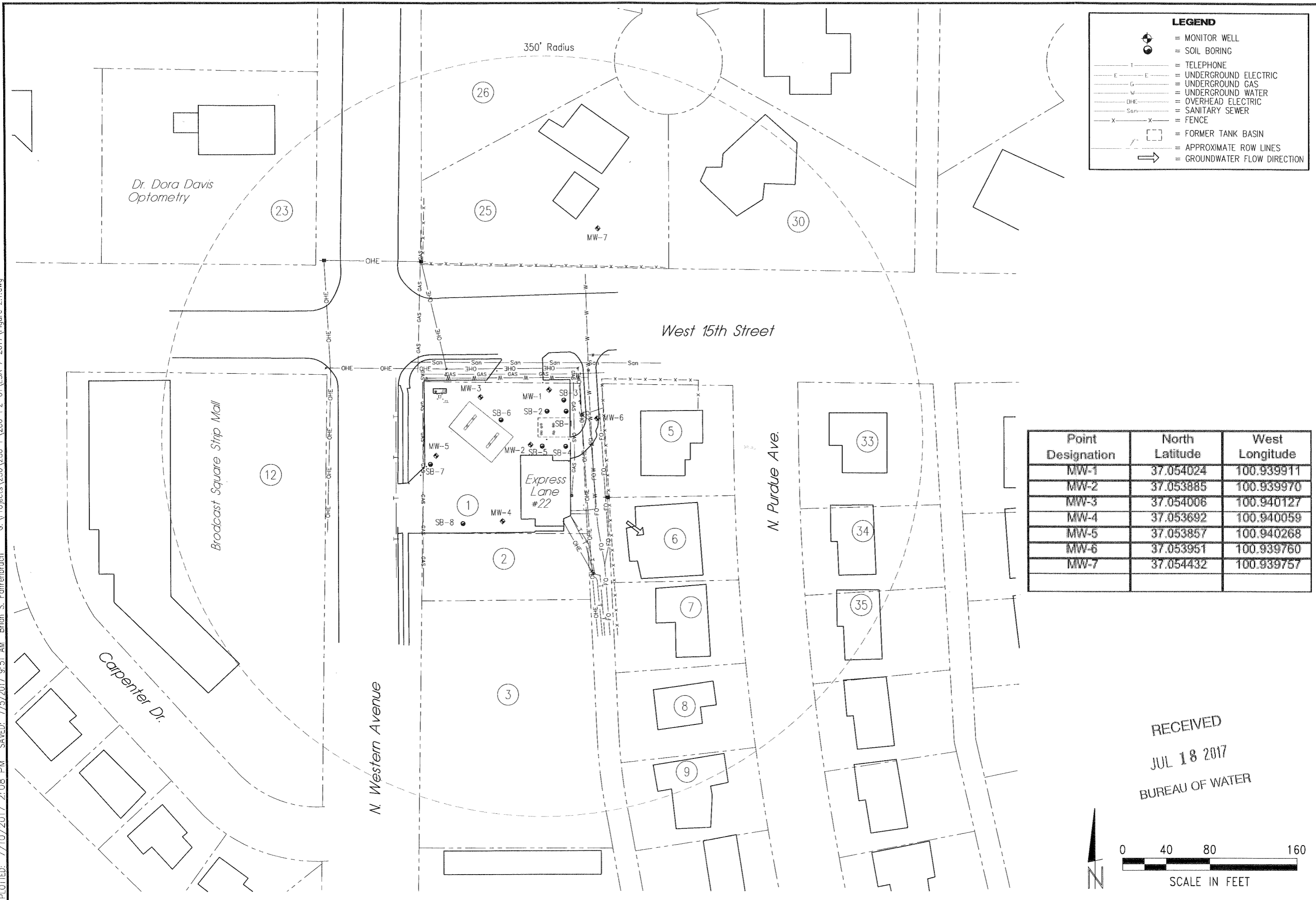
9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other concrete 0-1ft
 Grout Intervals: From 1 ft. to 152 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess 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	112	182	Clay and caliche with sand
0.5	12	Clayey Silt	182	197	Sand with caliche and clay
12	25	Sand with clay and caliche			
25	36	Clayey Silt with caliche and sand			
36	46	Sand			
46	67	Clayey Silt and caliche with clay			
67	77	Sandy Clay			
77	104	Clay and caliche with sand			
104	112	Sandy Clay			

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 Woolter Pump and Well. Signature: _____

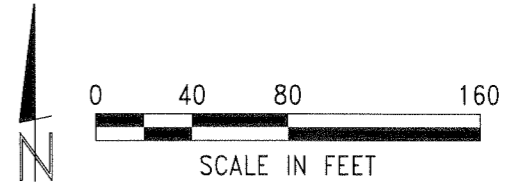
PLOTTED: 7/10/2017 2:08 PM SAVED: 7/5/2017 9:51 AM Brian S. Fahrenbruch G:\Projects\286\286-P2-01\LSA 7-2017\Figure 2.1.dwg



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



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BUREAU OF WATER

REVISIONS	BY
<p>MILCO Environmental Services, Inc. Kearney, NE (308) 237-5923 McCook, NE (308) 345-4741</p>	
<p>EXPRESS LANE #22 SITE BASE MAP - 350' RADIUS 1421 N. WESTERN AVENUE - LIBERAL, KANSAS U1-088-14879</p>	
<p>SCALE: AS SHOWN PROJECT NO. M286-P2-01 DATE: JULY, 2017 FIELD BOOK M&A DWG NO. DRAWN BY: BSF APRVD BY: SHEET</p>	
<p>FIGURE 2.1</p>	

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