

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID

MW-5

1 LOCATION OF WATER WELL: County: **Seward** Fraction **NW ¼ NW ¼ NW ¼ NW ¼** Section Number **32** Township Number **T 34 S** Range Number **R 33** E W

2 WELL OWNER: Last Name: **Frontier Fuel** 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:
 Business: **Frontier Fuel** Address: **P.O. Box 148** **1421 N Western Ave, Liberal, KS**
 Address: City: **Liberal** State: **KS** ZIP: **67905**

3 LOCATE WELL WITH "X" IN SECTION BOX:

N	
X	
S	
-----1 mile-----	

4 DEPTH OF COMPLETED WELL: **194** ft.
 Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) Dry Well
 WELL'S STATIC WATER LEVEL: **178.97** ft.
 below land surface, measured on (mo-day-yr) **6/16/17**
 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: **8.5** in. to ft. and in. to ft.

5 Latitude: **37.053857** (decimal degrees)
Longitude: **100.940268** (decimal degrees)
 Horizontal Datum: WGS 84 NAD 83 NAD 27
 Source for Latitude/Longitude: GPS (unit make/model: **EPOCH**) (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: **2860.58** ft. Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	5. <input type="checkbox"/> Public Water Supply: well ID 	10. <input type="checkbox"/> Oil Field Water Supply: lease
2. <input type="checkbox"/> Irrigation	6. <input type="checkbox"/> Dewatering: how many wells? 	11. Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical
3. <input type="checkbox"/> Feedlot	7. <input type="checkbox"/> Aquifer Recharge: well ID 	12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical
4. <input type="checkbox"/> Industrial	8. <input checked="" type="checkbox"/> Monitoring: well ID MW-5	b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water
	9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction	13. <input type="checkbox"/> Other (specify):
	<input type="checkbox"/> Recovery <input type="checkbox"/> Injection	

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 **151** ft. to **194** ft., From ft. to ft., From ft. to ft.

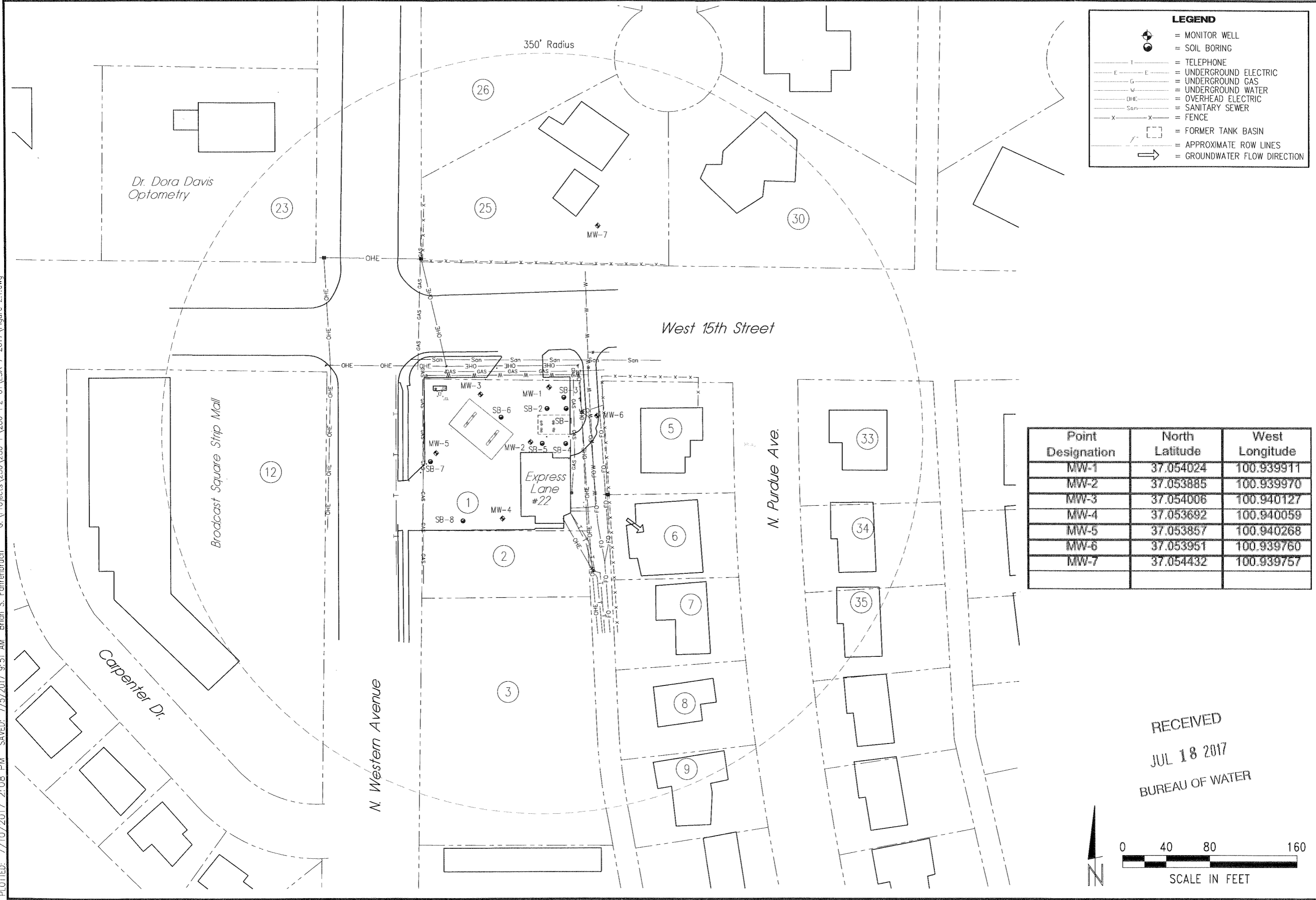
9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other **concrete 0-1ft**
 Grout intervals: From **1** ft. to **151** ft., From ft. to ft., From ft. to ft.
 Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage 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	122	131	Sand with gravel, clay and caliche
0.5	14	Clay silt with sand	131	183	Clay and caliche with sandy clay
14	33	Sandy Clay with sand and caliche	183	197	Sand with gravel, clay and caliche
33	46	Sand with clay and caliche			
46	65	Clayey Silt and caliche with sand			
65	76	Sand with clay and caliche			
76	88	Clay and caliche with sand			
88	106	Sandy Clay with caliche and sand			
106	122	Clay and caliche with sand			

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) **6/6/17** 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 **Woofer Pump and Well**. Signature: *[Signature]*

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



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

SCALE IN FEET

MILCO Environmental Services, Inc. <small>Kearney, NE (308) 237-5923 McCook, NE (308) 345-4741</small>	EXPRESS LANE #22 SITE BASE MAP - 350' RADIUS 1421 N. WESTERN AVENUE - LIBERAL, KANSAS U1-088-14879
FIGURE 2.1	