

WATER WELL RECORD Form WWC-5

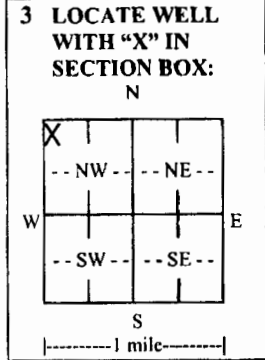
Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID MW-6

1 LOCATION OF WATER WELL:
 County: **Seward** Fraction: **NW 1/4 NW 1/4 NW 1/4 NW 1/4** Section Number: **32** Township Number: **T 34 S** Range Number: **R 33 E W**

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



4 DEPTH OF COMPLETED WELL: **205** ft.
 Depth(s) Groundwater Encountered: 1) **205** ft.
 2) **179.00** ft. 3) **179.00** ft., or 4) Dry Well
 WELL'S STATIC WATER LEVEL: **179.00** ft.
 below land surface, measured on (mo-day-yr) **6/20/17**
 above land surface, measured on (mo-day-yr) **6/20/17**
 Pump test data: Well water was **179.00** ft. after **0** hours pumping **0** gpm
 Well water was **179.00** ft. after **0** hours pumping **0** gpm
 Estimated Yield: **0** gpm
 Bore Hole Diameter: **8.5** in. to **8.5** ft. and **8.5** in. to **8.5** ft.

5 Latitude: **37.053951** (decimal degrees)
Longitude: **100.939756** (decimal degrees)
 Horizontal Datum: WGS 84 NAD 83 NAD 27
 Source for Latitude/Longitude: GPS (unit make/model: **EPOCH**)
 Land Survey Topographic Map
 Online Mapper: **WAAS enabled? Yes No**

6 Elevation: **2860.45** ft. Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other

7 WELL WATER TO BE USED AS:

1. Domestic: Household Lawn & Garden Livestock
 Irrigation Feedlot Industrial

2. Public Water Supply: well ID **MW-6**
 Dewatering: how many wells? **1**
 Aquifer Recharge: well ID **MW-6**
 Monitoring: well ID **MW-6**
 Environmental Remediation: well ID **MW-6**
 Air Sparge Soil Vapor Extraction Recovery Injection

10. Oil Field Water Supply: lease **0**
 11. Test Hole: well ID **0**
 Cased Uncased Geotechnical
 12. Geothermal: how many bores? **0**
 a) Closed Loop Horizontal Vertical
 b) Open Loop Surface Discharge Inj. of Water
 13. Other (specify): **0**

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: **6/20/17**
 Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other **0** CASING JOINTS: Glued Clamped Welded Threaded
 Casing diameter **4** in. to **165** ft., Diameter **4** in. to **165** ft., Diameter **4** in. to **165** ft.
 Casing height above land surface **-6** in. Weight **0** lbs./ft. Wall thickness or gauge No. **Sch. 40**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify) **0**
 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) **0**
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From **165** ft. to **205** ft., From **0** ft. to **0** ft., From **0** ft. to **0** ft.
 GRAVEL PACK INTERVALS: From **162** ft. to **205** ft., From **0** ft. to **0** ft., From **0** ft. to **0** ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other **concrete 0-1ft**
 Grout Intervals: From **1** ft. to **162** ft., From **0** ft. to **0** ft., From **0** ft. to **0** ft.

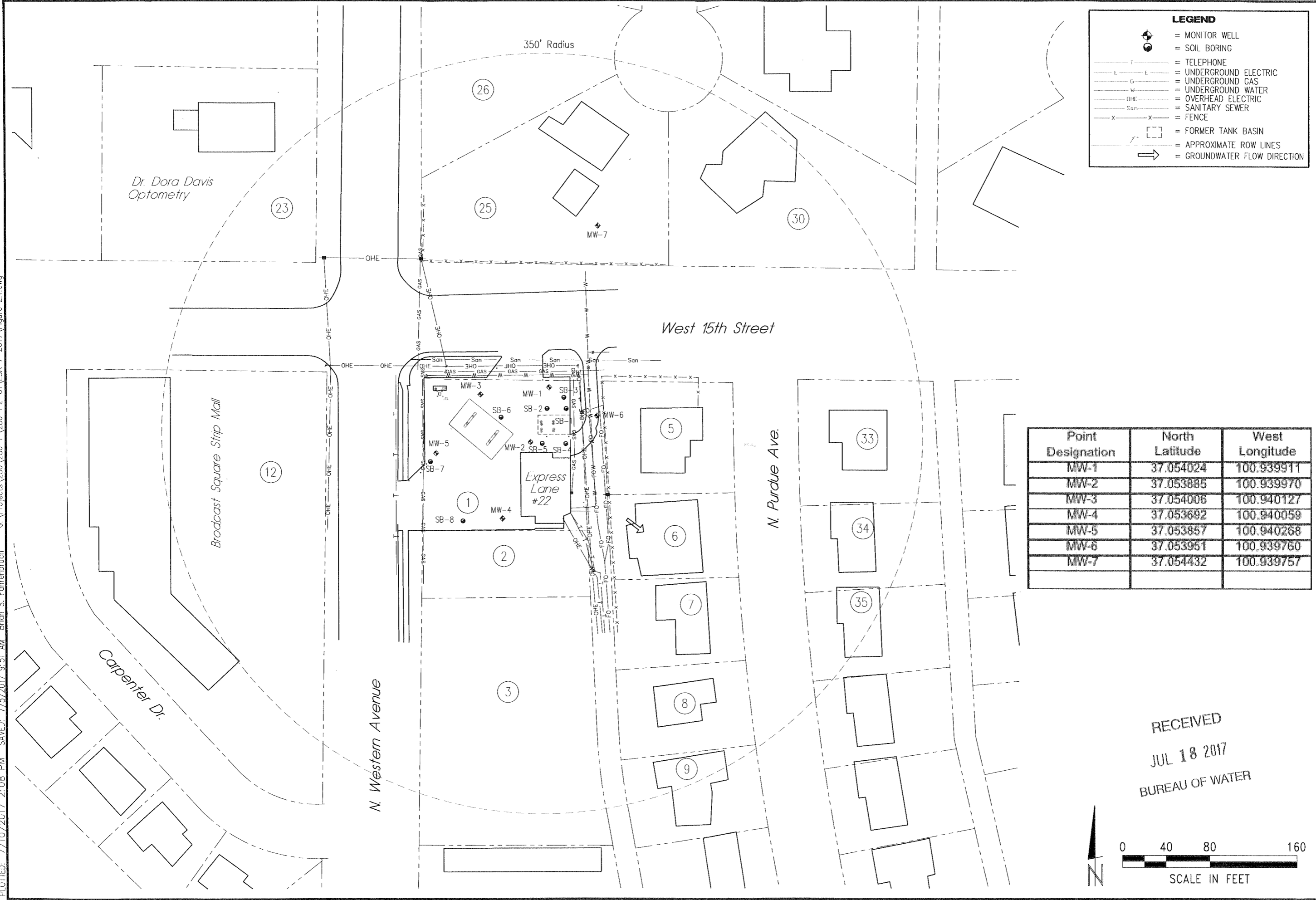
Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify) **0**
 Direction from well? **0** Distance from well? **0** ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Concrete	133	177	Clay and caliche with sand clay and gravel
0.5	5	Clayey Silt	177	205	Sand with gravel, clay and caliche
5	21	Sand with clay			
21	35	Sandy Clay with caliche			
35	46	Sand with clay and caliche			
46	61	Clayey Silt and caliche with sandy clay			
61	72	Sand with clay and caliche			
72	124	Clay and caliche with sandy clay			
124	133	Sand with 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 **Wopfer Pump and Well** Signature: *[Signature]*

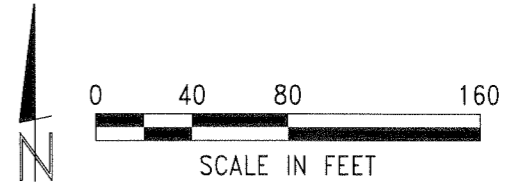
PLOTTED: 7/10/2017 2:08 PM SAVED: 7/5/2017 9:51 AM Brian S. Fahrenbruch G:\Projects\286\286-P2-01\LSA 7-2017\Figure 2.1.dwg



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

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	
<p>RECEIVED JUL 18 2017 BUREAU OF WATER</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>	
FIGURE 2.1	

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