

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Well ID MW-8

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Seward	Fraction NE ¼ NW ¼ NW ¼ NW ¼	Section Number 32	Township Number T 34 S	Range Number R 33 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: Norman First: Jeremy & Elizabeth Business: Address: 1411 N. Purdue Ave Address: City: 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: <input checked="" type="checkbox"/>
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3 LOCATE WELL WITH "X" IN SECTION BOX: <div style="text-align: center;"> <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">X</td><td style="text-align: center;"> </td></tr> <tr><td style="text-align: center;">--NW--</td><td style="text-align: center;">--NE--</td></tr> <tr><td style="text-align: center;">W</td><td style="text-align: center;">E</td></tr> <tr><td style="text-align: center;">--SW--</td><td style="text-align: center;">--SE--</td></tr> <tr><td style="text-align: center;">S</td><td style="text-align: center;"> </td></tr> </table> <p style="text-align: center;">1 mile</p> </div>	X		--NW--	--NE--	W	E	--SW--	--SE--	S		4 DEPTH OF COMPLETED WELL: 194 ft. Depth(s) Groundwater Encountered: 1) 177.55 ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr)..... <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: 8.5 in. to 197 ft. and in. to ft.	5 Latitude: 37.053611 (decimal degrees) Longitude: 100.939167 (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 checked="" type="checkbox"/> GPS (unit make/model: Epoch) (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												
--NW--	--NE--											
W	E											
--SW--	--SE--											
S												
6 Elevation: 2858.41 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 MW-8 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.

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

Grout Intervals: From **0.5** 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.

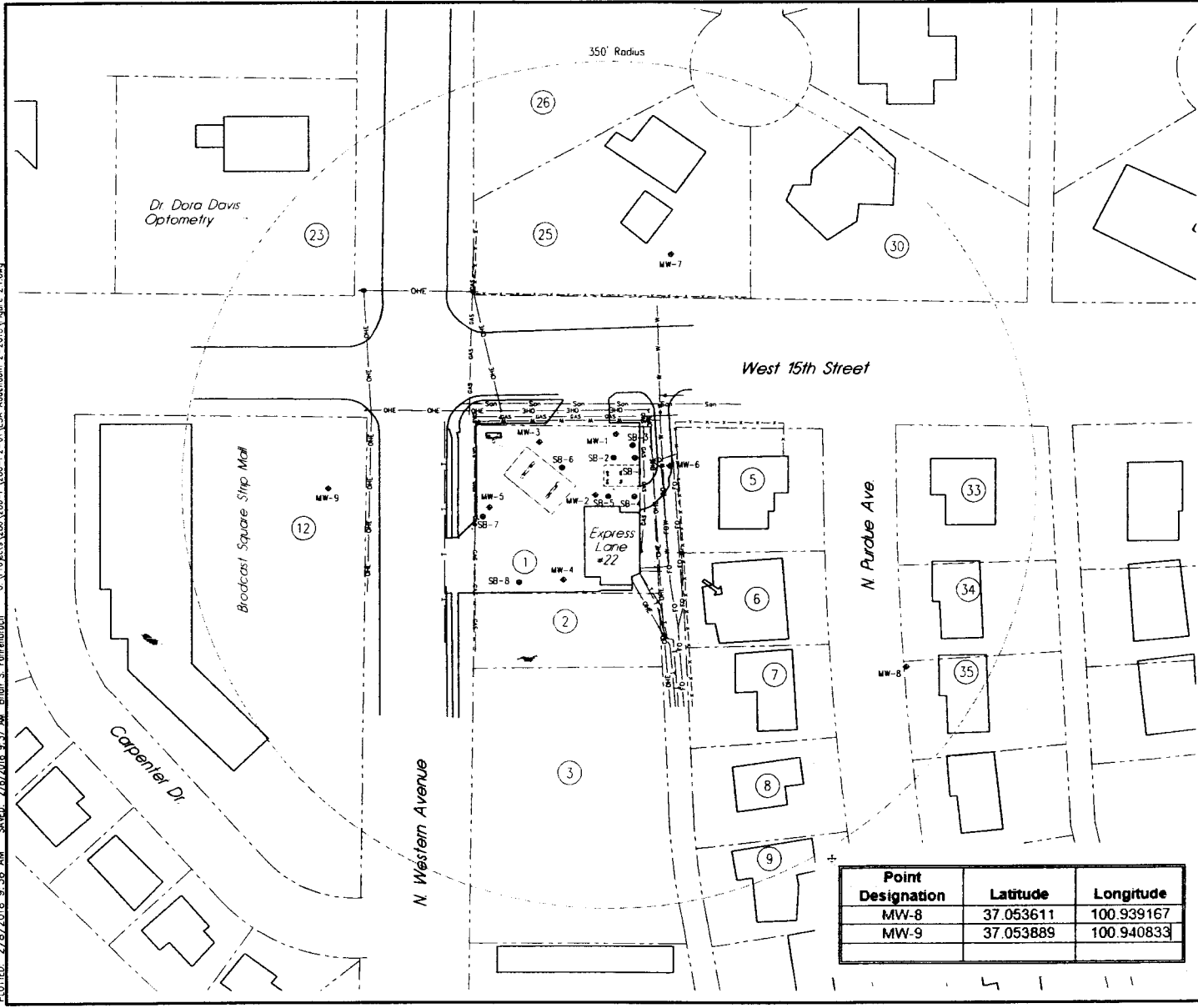
10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Concrete	176	197	Sand with clay, trace caliche
0.5	24	Sand with trace clay			
24	36	Silty Clay with sand			
36	45	Sand with trace clay			
45	57	Sandy Clay and caliche			
57	69	Sand with sandy clay			
69	127	Clay, caliche and sandy clay			
127	134	Sand			
134	176	Clay and caliche, with sandy clay, sand			

Notes: Express Lane #22; 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) **1/19/18** 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) **2/13/18** under the business name of **Wopler Pump and Well** Signature *[Signature]*

NE NW NW NW S32 T34 R33W

PLOTTED: 2/8/2018 9:38 AM SAJED: 2/8/2018 9:37 AM Brown, S. Ehrenbreuch C:\Projects\206\206-P2-01\USA_Aerialnum 2-2018\Figure 2.1.dwg



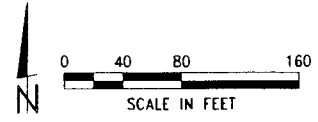
LEGEND

- = 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

PROPERTIES ARE RESIDENTIAL UNLESS OTHERWISE NOTED.

- Property owners:
1. JM-AM Properties LLC
 2. AM Rentals
 3. Brown, J. Courtney & Margaret Patricia
 4. Crawford, Jeffrey L. & Carol Diane
 5. Payton, Tray L. & Pamela G. - full
 6. Roy, JD & Lovesta Jean
 7. King, Kirby & Loretta
 8. Ratson, John A. & Karen L. - full
 9. Phelps, Willie Max & Ruth Louise
 10. Donovan, Kevin E. & Celeste M. - full
 11. Carrasco, Ricardo; Valverde, Diana Paola
 12. Seward County Broadcasting Co. Inc.
 13. Coleman, Jay S; Stegman, Katie - full
 14. Phan, Tuan Anh; Le, Anh - partial
 15. Trevizo, Felipe & Lourdes - full
 16. Holland, William F. & Kyoja D. - partial
 17. Meuten, John J. & Sue E. - full
 18. Ruiz, Mercedes Ruiz - crowd space
 19. McClurg, Patrick L. & Kimberly D. - partial
 20. Dominguez, Raul & Luz Maria - full
 21. Burt, Duane - full
 22. BET Enterprises
 23. Davis, Dora & Ernest
 24. Southwest Rehabilitation
 25. Gresson, Todd - partial
 26. Andrews, Gary & Charlo
 27. Herbal, Dick & Pense - full
 28. Boler, Brandi L. - full
 29. Coriie, Robert Todd; Coriie, Kelly S
 30. Francis, Carol F. - partial
 31. Farrar, Ryan R. & Norma I. - partial
 32. Coriie, Danita Buchman - full
 33. Fox, Wanda - full
 34. Classen, Allan L. & Charlene A. - full
 35. Norman, Jeremy & Elizabeth - full
 36. Ode, David E. & Lora A. - full
 37. Rede-Lozaya, Sergio, Ruiz, Maria D. - partial
 38. Spikes, Leslie & Corey - full
 39. Tran, Cuong Huu; Ly, Trong Tan Nguyen
 40. Fatman, Isaac - full
 41. Contreras, Gilberto; Gomez, Paola - full
 42. Moreno, Nancy P. & Luis - full

Point Designation	Latitude	Longitude
MW-8	37.053611	100.939167
MW-9	37.053889	100.940833



REVISIONS BY

MILCO
Environmental Services, Inc.
Kearney, NE (308) 237-5823
McCook, NE (308) 348-4741

EXPRESS LANE #22

SITE BASE MAP - 350' RADIUS

1421 N. WESTERN AVENUE - LIBERAL, KANSAS U1-088-14879

SCALE AS SHOWN

PROJECT NO. #206-P2-01

DATE FEBRUARY 2018

FIELD BOOK MAA DNG NO.

DRAWN BY: BSF

APPROVED BY:

SHEET

FIGURE 2.1