

**WATER WELL RECORD Form WWC-5**

Division of Water Resources App. No.

Well ID MW-12

Original Record  Correction  Change in Well Use

<b>1 LOCATION OF WATER WELL:</b> County: <b>Stevens</b>	Fraction SW ¼ SE ¼ NW ¼ NW ¼	Section Number <b>16</b>	Township Number <b>T 33 S</b>	Range Number <b>R 37</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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<b>2 WELL OWNER: Last Name:</b> First: Business: <b>Halliburton Energy Services</b> Address: <b>3000 N Sam Houston Pkwy E</b> Address: City: <b>Houston</b> State: <b>TX</b> ZIP: <b>77032</b>	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"/> <b>210 S. Polk Street, Hugoton, KS 67951</b>
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<b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b> 	<b>4 DEPTH OF COMPLETED WELL:</b> ..... <b>195</b> ..... ft. Depth(s) Groundwater Encountered: 1) ..... ft. 2) ..... ft. 3) ..... ft., or 4) <input type="checkbox"/> Dry Well <b>WELL'S STATIC WATER LEVEL:</b> ..... <b>171.60</b> ..... ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) ..... <b>3/27/18</b> ..... <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: ..... <b>8.5</b> ..... in. to ..... <b>198</b> ..... ft. and ..... in. to ..... ft.	<b>5 Latitude:</b> ..... <b>37.18155</b> ..... (decimal degrees) <b>Longitude:</b> ..... <b>101.35399</b> ..... (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: .....) (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: .....
<b>6 Elevation:</b> <b>3107.08</b> ..... 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 <b>MW-12</b> 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 ..... **155** ..... 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 ..... **155** ..... ft. to ..... **195** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
**GRAVEL PACK INTERVALS:** From ..... **152** ..... ft. to ..... **195** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

**9 GROUT MATERIAL:**  Neat cement  Cement grout  Bentonite  Other .....  
 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	Asphalt			
0.5	27	Clay with trace caliche			
27	56	Sand with clay			
56	63	Gravelly sand with clay			
63	78	Sand with clay, trace gravel			
78	86	Caliche and clay with sand			
86	164	Caliche with sandy clay			
164	180	Clay and caliche with sand			
180	198	Gravelly sand with clay			

**Notes:**  
KDHE Project Code: U1-095-11019

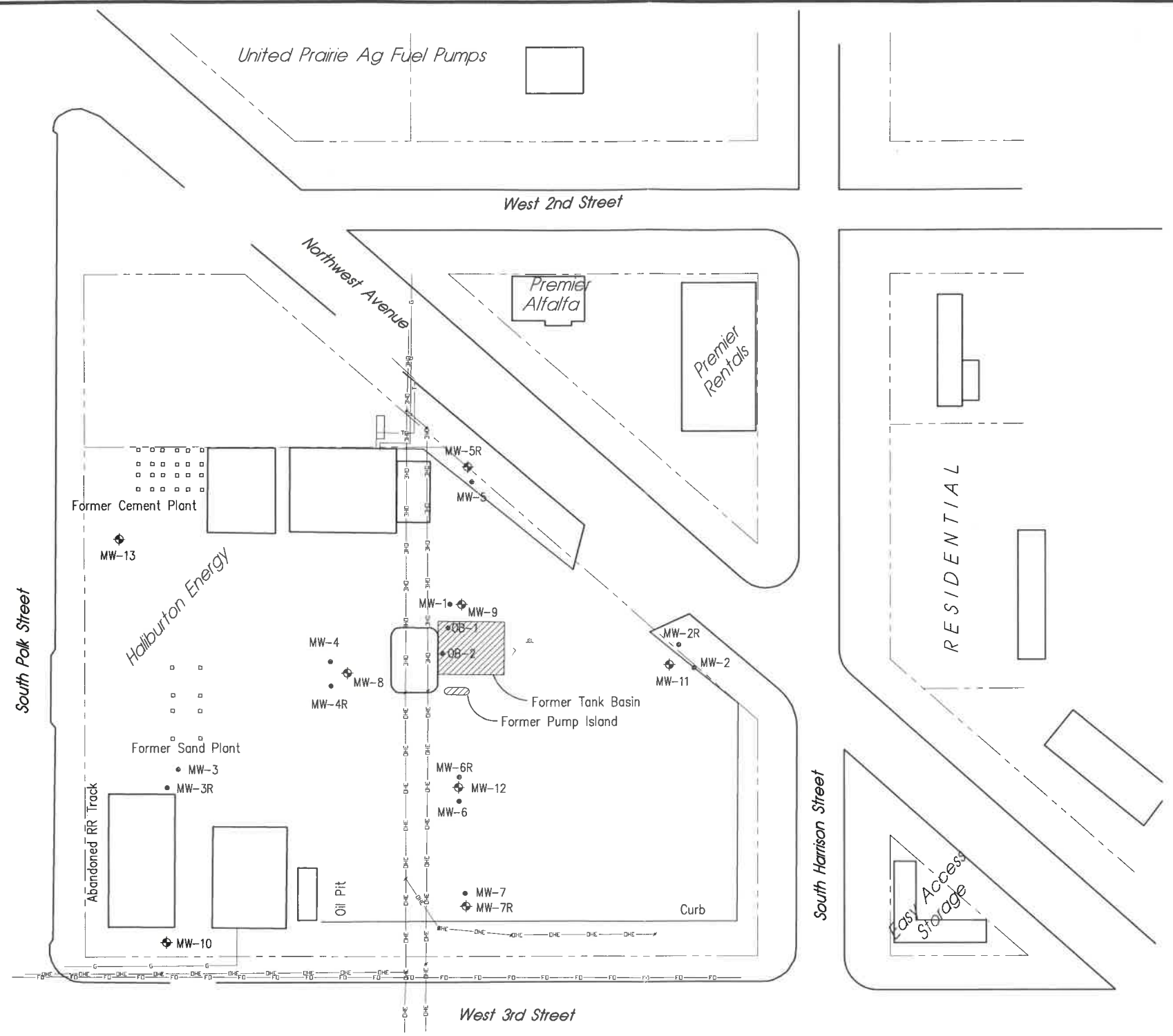
**11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo-day-year) **3/23/18** ..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **881** ..... This Water Well Record was completed on (mo-day-year) **4/30/18** ..... under the business name of **Wootter Pump and Well** ..... Signature: *[Signature]*

STEVENS

SE NW NW

16-33-37W

PLOTTED: 5/1/2018 5:52 AM SAVED: 5/1/2018 5:52 AM Brian S. Fahrenbruch G:\Projects\435-P2-02\Quarterly\Figure A.dwg

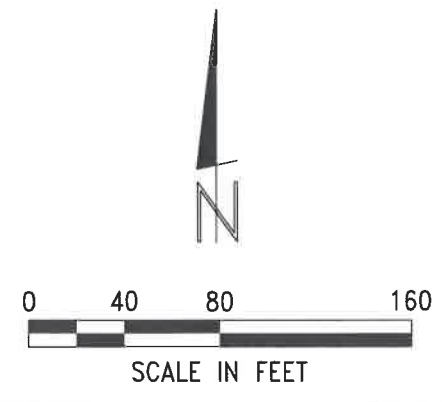


**LEGEND**

- ◆ = MONITORING WELL
- = PLUGGED WELL
- FO—FO— = FIBER OPTIC
- OHE— = OVERHEAD ELECTRIC
- G— = UNDERGROUND GAS
- T— = UNDERGROUND TELEPHONE

NOTE:  
FORMER PRODUCT LINE  
LOCATIONS ARE UNKNOWN.

RECEIVED  
MAY 07 2018  
BUREAU OF WATER



Point Designation	Latitude	Longitude
MW-11	37.18176	101.35356
MW-12	37.18155	101.35399
MW-13	37.18196	101.35469

REVISIONS	BY
<p><b>MILCO Environmental Services, Inc.</b>          Kearney, NE (308) 237-5923          MoCook, NE (308) 345-4741          Colby, KS (785) 460-1956</p>	
<p>HALIBURTON ENERGY SERVICES  <b>SITE MAP</b>          210 SOUTH POLK STREET. - HUGOTON, KANSAS U1-095-11019</p>	
<p>SCALE: _____          PROJECT NO. M435-P2-02          DATE: MAY, 2018          FIELD BOOK _____ M&amp;A DWG NO. _____          DRAWN BY: BSF APRVD BY: _____          SHEET _____</p>	
<p><b>FIGURE A</b></p>	