

## WATER WELL RECORD

Form WWC-5

Division of Water

Resources App. No.

Well ID

MW12

☒ Original Record ☐ Correction ☐ Change in Well Use

<b>1 LOCATION OF WATER WELL:</b> County Douglas		Fraction NE ¼ NW ¼ NE ¼ SW ¼	Section Number 6	Township Number T 13 S	Range Number R 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
<b>2 WELL OWNER: Last Name:</b> Business: KDHE (Continental Oil Co.) Address: 1000 SW Jackson Address: City Topeka State: KS ZIP: 66612		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"/> 1903 Massachusetts St, Lawrence, KS			
<b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b> <div style="text-align: center;"> </div>	<b>4 DEPTH OF COMPLETED WELL:</b> 20 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 4.40 ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) 5/5/20 <input type="checkbox"/> above land surface, measured on (mo-day-yr) _____ Pump test data: Well water was _____ ft after _____ hours pumping _____ gpm Water well was _____ ft after _____ hours pumping _____ gpm Estimated Yield: _____ gpm Bore Hole Diameter: 7.25 in to _____ ft, and _____ in to _____ ft	<b>5 Latitude:</b> 38.94938 (decimal degrees) <b>Longitude:</b> 95.23650 (decimal degrees) Horizontal Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model: _____) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper			
		<b>6 Elevation:</b> 870.11 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:<br><input type="checkbox"/> Household<br><input type="checkbox"/> Lawn & Garden<br><input type="checkbox"/> Livestock<br>2 <input type="checkbox"/> Irrigation<br>3 <input type="checkbox"/> Feedlot<br>4 <input type="checkbox"/> Industrial | 5 <input type="checkbox"/> Public Water Supply: well ID<br>6 <input type="checkbox"/> Dewatering: how many wells?<br>7 <input type="checkbox"/> Aquifer Recharge: well ID<br>8 <input checked="" type="checkbox"/> Monitoring: well ID MW12<br>9 Environmental Remediation: well ID<br><input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extractor<br><input type="checkbox"/> Recovery <input type="checkbox"/> Injection | 10 <input type="checkbox"/> Oil Field Water Supply: lease<br>11 Test Hole: well ID<br><input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical<br>12 Geothermal: How many bores?<br>a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical<br>b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water<br><input type="checkbox"/> Other (specify): _____ |
|---|--|--|

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 2 in. to 10 ft. Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft.

Casing height above land surface -0.39 in. Weight \_\_\_\_\_ lbs./ft. Well 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 10 ft. to 20 ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**GRAVEL PACK INTERVALS:** From 8 ft. to 20 ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**9 GROUT MATERIAL:** ☐ Neat cement ☐ Cement grout ☒ Bentonite ☒ Other Concrete: 0-0.5'

Grout intervals: From 0.5 ft. to 8 ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Nearest source of possible contamination:**

- |   |  |  |  |   |
|---|--|--|--|---|
| <input type="checkbox"/> Septic Tank            | <input type="checkbox"/> Lateral Lines | <input type="checkbox"/> Pit Privy     | <input type="checkbox"/> Livestock Pens          | <input type="checkbox"/> Insecticide Storage  |
| <input type="checkbox"/> Sewer Lines            | <input type="checkbox"/> Cess Pool     | <input type="checkbox"/> Sewage Lagoon | <input checked="" type="checkbox"/> Fuel Storage | <input type="checkbox"/> Abandoned Water Well |
| <input type="checkbox"/> Watertight Sewer Lines | <input type="checkbox"/> Seepage Pit   | <input type="checkbox"/> Feedyard      | <input type="checkbox"/> Fertilizer Storage      | <input type="checkbox"/> Oil Well / Gas Well  |
| <input type="checkbox"/> Other (Specify) _____  |  |  |  |   |

Direction from well? ~315 ft Distance from well? N \_\_\_\_\_ ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Asphalt			
0.5	2	Silty clay, some gravel			
2	20	Silty clay			

Notes: KDHE ID: Continental Oil Co.; U4-023-15188  
 Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE.

**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) 4/21/20 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 757 This Water Well Record was completed on (mo-day-year) 6/2/20 under the business name of Larsen & Associates, Inc. Signature \_\_\_\_\_

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, CWES Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524.

Visit us at <http://www.kdheks.gov/waterwell/index.html>

KS 82a-1212

Revised 7/10/2015

NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.

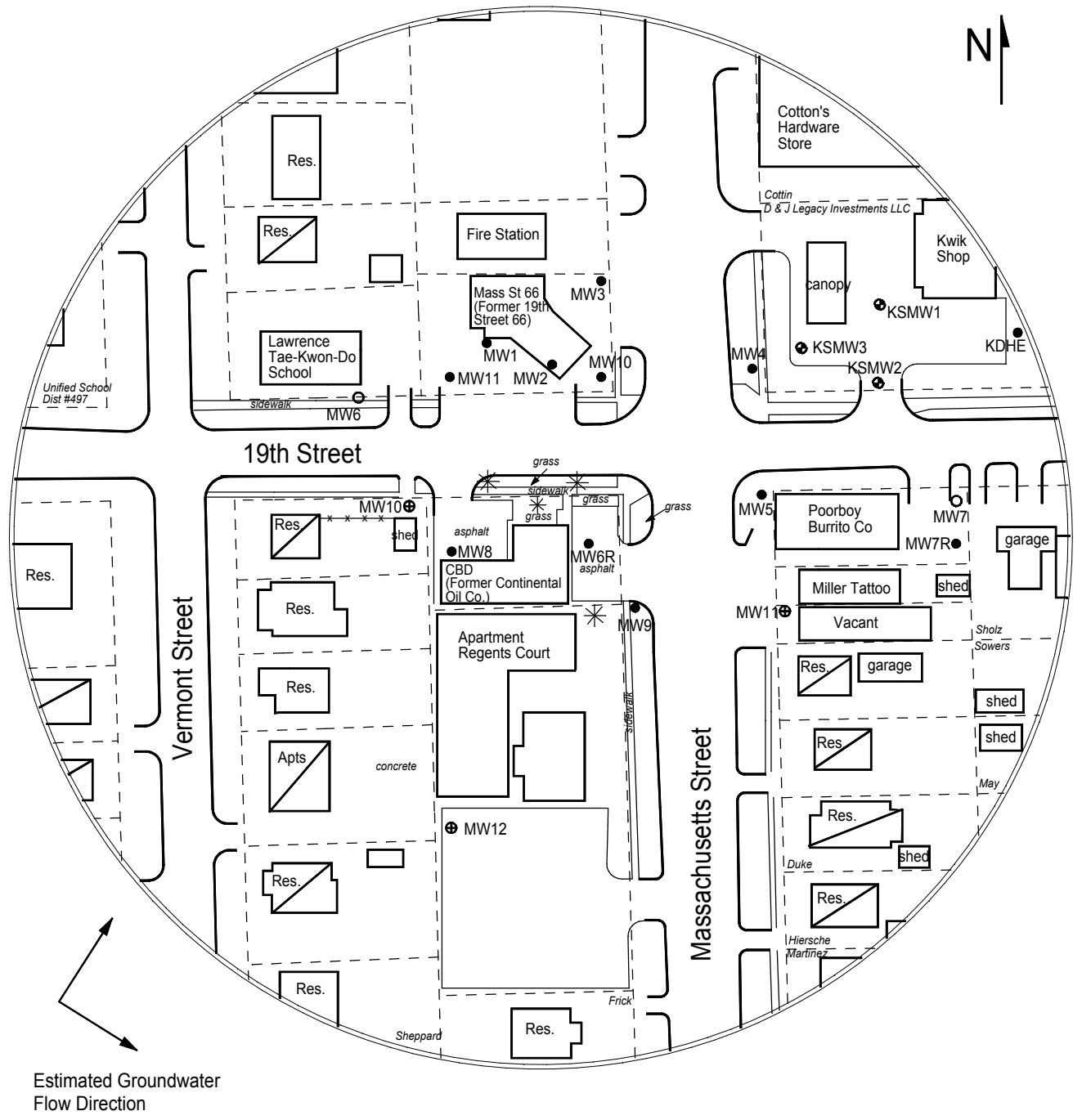


FIGURE 2.1 - 350 FT RADIUS AREA BASE MAP



1311 E 25th St. Suite B 785-841-8707 office  
Lawrence, KS 66046 785-865-4282 fax

### PROJECT:

Continental Oil Co.  
1901 Massachusetts  
Lawrence, KS  
KDHE ID: U4-023-15188  
Date: 5/5/20

0 100 ft

### LEGEND:

- Approximate Location of Former UST Basin, Product Lines & Pump Islands
- Approximate Location of Active UST Basin & Pump Islands
- Building with Basement
- Approximate Location of Property Line
- Monitoring Well from nearby site 19th Street 66 (U4-023-01681)
- Monitoring Well from nearby site Kwik Shop #702 (U4-023-11798)
- Plugged Well
- Monitoring Well (Installed 4/20-21/20)
- Soil Boring (Drilled 4/20/20)
- Fire Hydrant
- Electric Lines (1.5 - 3 ft bgs)
- Gas Lines (1.5 - 3 ft bgs)
- Sewer Lines (2 - 6 ft bgs)
- Overhead Lines (25'-40' high)
- Telephone Lines (2 - 6 ft bgs)
- Water Lines (1.5 - 3 ft bgs)

NOTE: SB5 & SB6 were drilled to collect hydrologic samples.  
NOTE: Utility depths, heights and locations are approximate.

Douglas

6 - T13 - R20E

**DENNIS L HANDKE**

1820 NW 59th Terrace  
TOPEKA, KANSAS 66618  
785-286-4047 Home

Jess Chapman  
Larsen & Assoc.  
1311 E. 25<sup>th</sup> St., Suite B  
Topeka, Kansas 66046

May 1, 2020

RE: Monitor Well Elevation Survey  
1901 Massachusetta, Lawrence, Kansas

Proj. 20-00T  
Continental Oil Co.  
KDHE ID U4-023-15188

Bench Mark: Chisled square on Southwest corner of signal light base the SW corner of property.  
Elev.: 869.52      North 2687.27      West 3611.87      (from SE Cor. Sec. 6-13-20E)

MW-10	rim	870.36	North	2676.61	NE1/4,NW1/4,NE1/4,SW1/4
	top pipe	870.00	West	3729.63	Lat = 38.94998      Long = 95.23656
MW-11	rim	868.43	North	2602.55	NE1/4,NW1/4,NE1/4,SW1/4
	top pipe	868.04	West	3485.08	Lat = 38.94978      Long = 95.23570
MW-12	rim	870.50	South	2459.84	NE1/4,NW1/4,NE1/4,SW1/4
	top pipe	870.11	West	3711.40	Lat = 38.94938      Long = 95.23650

Lat & Long derived from Lawrence East 7.5' quad map. WGS84.

Elevation derived from existing project. NAVD 88.

If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you.

Dennis L Handke RLS

