

Revision

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

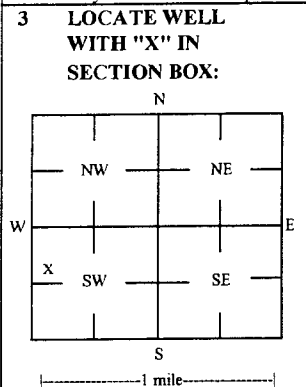
Well ID

MW16

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Harvey Fraction SE 1/4 SW 1/4 NW 1/4 SW 1/4 Section Number 18 Township Number T 23 S Range Number R 1 E W

2 WELL OWNER: Last Name: 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: 420 N Meridian Rd., Newton, KS 67114



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 25 ft Depth(s) Groundwater Encountered: 1) \_\_\_\_\_ ft 2) \_\_\_\_\_ ft 3) \_\_\_\_\_ ft, or 4) Dry Well

5 Latitude: 38.04731 (decimal degrees) Longitude: 97.37172 (decimal degrees) Horizontal Datum: X WGS 84 NAD 83 NAD 27

6 Elevation: 1440.82 ft Ground Level: X TOC Source: X Land Survey GPS Topographic Map

7 WELL WATER TO BE USED AS: 1 Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5 Public Water Supply: well ID 6 Dewatering: how many wells? 7 Aquifer Recharge: well ID 8 X Monitoring: well ID MW16 9 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor Recovery Injection 10 Oil Field Water Supply: lease 11 Test Hole: well ID Cased Uncased Geotechnical 12 Geothermal: How many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water Other (specify):

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

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 10 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface 0.40 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 X 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 25 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 8 ft. to 25 ft. From ft. to ft. From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout X Bentonite X 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: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon X Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specify) Direction from well? S Distance from well? ~200 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows show depth intervals and lithology: 0-0.4 Concrete, 0.4-2 Silty clay, w/ sand, 2-13 Silty clay, 13-23 Silty clay, w/ sand, 23-25 Coarse sand.

Notes: KDHE ID: Taylor Petroleum #613; U2-040-13913 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 X constructed, reconstructed or plugged under my jurisdiction and was completed on (mo-day-year) 9/5/17 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) 9/27/17 under the business name of Larsen & Associates, Inc. Signature

# DENNIS L HANDKE

1820 NW 59th Terrace  
TOPEKA, KANSAS 66618  
785-286-4047 Home  
785-286-1990 Fax

Jessica Chapman  
Larsen & Associates  
1311 E. 25<sup>th</sup> Street, Suite B  
Lawrence, Kansas, 66046

September 22, 2017

RE: Monitor Well Elevation Survey  
1804 W. 4<sup>th</sup> St., Newton, Kansas

Proj. 17-00CC  
Taylor Petroleum #613  
U2-040-13913

Bench Mark: Chisled X on sidewalk at the SW corner of the building.  
Elev: 1440.48      North 1407.27      West 4843.75      (from SE Cor. Sec. 18-23-1E)

MW-13	rim	1442.06	North	1598.13	SE1/4,SW1/4,NW1/4,SW1/4
	top pipe	1441.72	West	4328.96	Lat= 38.04742    Long = 97.37164
MW-14	rim	1440.35	North	1644.00	SE1/4,SE1/4,NE1/4,SE1/4 (Sec. 13-23-1W)
	top pipe	1440.02	West	4979.32	Lat= 38.04755    Long = 97.37215
MW-15	rim	1440.94	North	1709.87	NE1/4,SW1/4,NW1/4,SW1/4
	top pipe	1440.54	West	4835.23	Lat= 38.04773    Long = 97.37165
MW-16	rim	1441.22	North	1557.53	SE1/4,SW1/4,NW1/4,SW1/4
	top pipe	1440.82	West	4851.60	Lat= 38.04731    Long = 97.37172
MW-17	rim	1440.31	North	1607.00	SE1/4,SW1/4,NW1/4,SW1/4
	top pipe	1440.04	West	4626.57	Lat= 38.04716    Long = 97.37095

Lat & Long derived existing Newton 7.5' quad map. WGS 84.

Elevation established from existing well project.

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OCT 12 2017

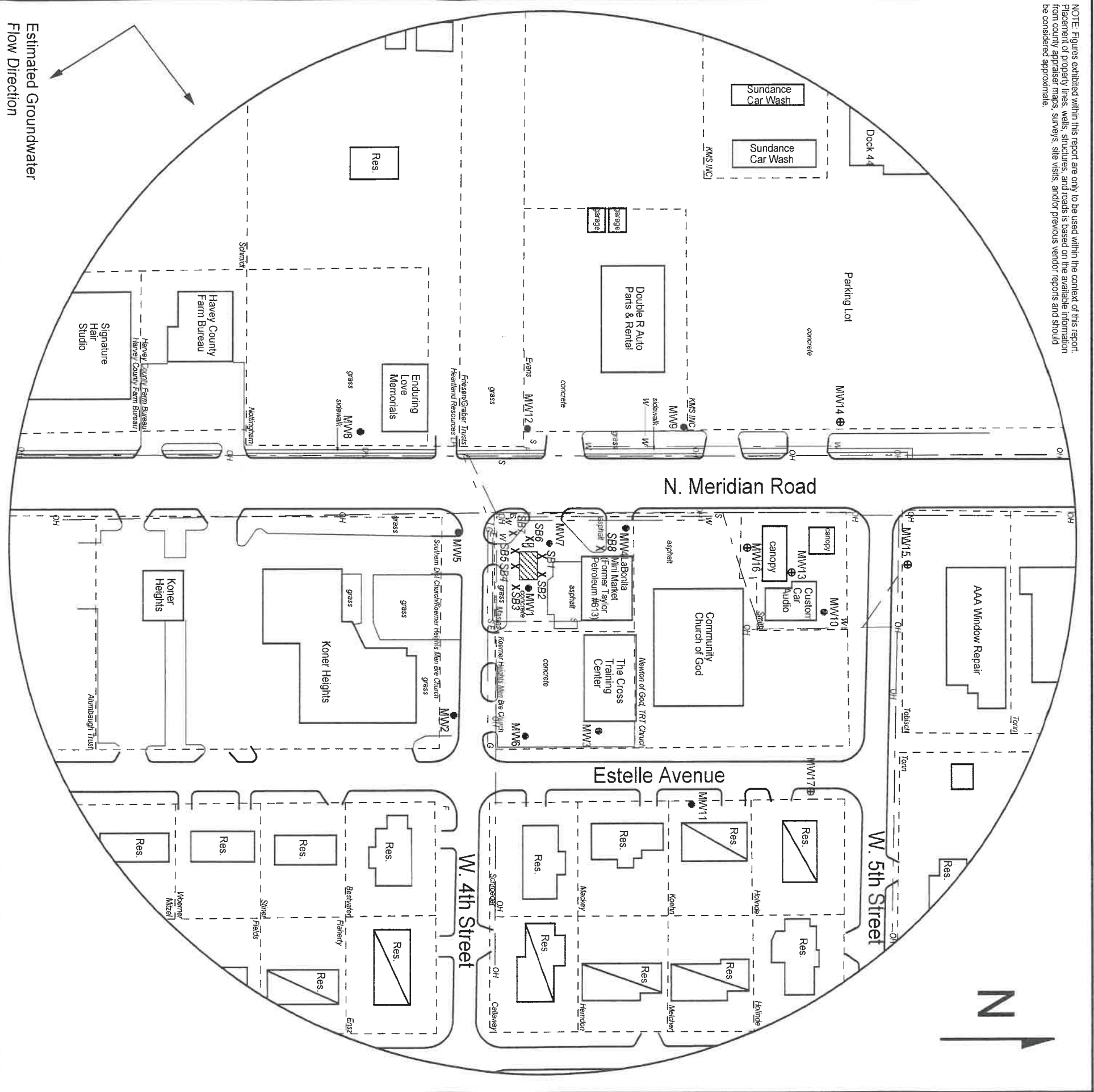
BUREAU OF WATER

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

September 22, 2017  
Dennis L Handke RLS

*Dennis L Handke*  
KANSAS  
LAND SURVEYOR

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 2.2 - 500 FT RADIUS AREA BASE MAP**

1311 E 25th St., Suite B  
Lawrence, KS 66046

785-841-8707 office  
785-865-4282 fax

**PROJECT:**  
Taylor Petroleum #613  
1804 W. 4th  
Newton, KS  
KDHEID: U2-040-13913  
Date: 9/14/17

**RECEIVED**

OCT 12 2017

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**LEGEND**

- Approximate Location of Former UST Basin
- Building with Basement
- Approximate Location of Property Line
- Existing Monitoring Well
- Monitoring Well (Installed 9/5-6/17)
- Soil Boring (Drilled 8/30-31/16)
- Fire Hydrant
- Electric Lines (1.5 - 3 ft bgs)
- Gas Lines (1.5 - 3 ft bgs)
- Overhead Lines (25-40' high)
- Sewer Inlet (2 - 6 ft bgs)
- Telephone Lines (2 - 6 ft bgs)
- Water Lines (2 - 6 ft bgs)

NOTE: Data for SB1-SB6 and MW7 was collected on 8/29-31/16.  
Data for MW13 and MW16 was collected on 9/5/17.  
NOTE: Utility depths, heights and locations are approximate.  
NOTE: Approximate location of pump islands and product lines is unknown.