

Revision

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

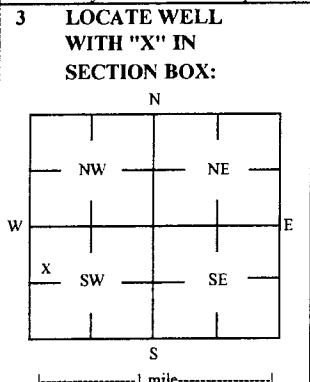
Well ID

MW17

Original Record [] Correction [X] Change in Well Use []

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: []



4 DEPTH OF COMPLETED WELL: 20.5 ft, Depth(s) Groundwater Encountered: 1) _____ ft, 2) _____ ft, 3) _____ ft, or 4) [] Dry Well, WELL'S STATIC WATER LEVEL: 17.5 ft.

5 Latitude: 38.04716 (decimal degrees), Longitude: 97.37095 (decimal degrees), Horizontal Datum [X] WGS 84 [] NAD 83 [] NAD 27, Source for Latitude/Longitude: [] GPS (unit make/model: _____) (WAAS enabled? [] Yes [] No) [X] Land Survey [] Topographic Map [] Online Mapper

6 Elevation 1440.04 ft [] Ground Level [X] TOC, Source [X] Land Survey [] GPS [] Topographic Map [] Other _____

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 MW17, 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 [X] No, If yes, date sample was submitted: _____, Water well disinfected? [] Yes [X] No

8 TYPE OF CASING USED: [] Steel [X] PVC [] Other, CASING JOINTS: [] Glued [] Clamped [] Welded [X] Threaded, Casing diameter 2 in. to 10.5 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft, Casing height above land surface -0.27 in. Weight _____ lbs./ft. Well thickness or gauge No _____

TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] 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 10.5 ft. to 20.5 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft, GRAVEL PACK INTERVALS: From 8 ft. to 20.5 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? SW Distance from well? ~330 ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: 0, 0.5, Grass & topsoil, Row 2: 0.5, 20.5, Silty clay

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) 9/6/17 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. 25th Street, Suite B
Lawrence, Kansas, 66046

September 22, 2017

RE: Monitor Well Elevation Survey
1804 W. 4th 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

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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.

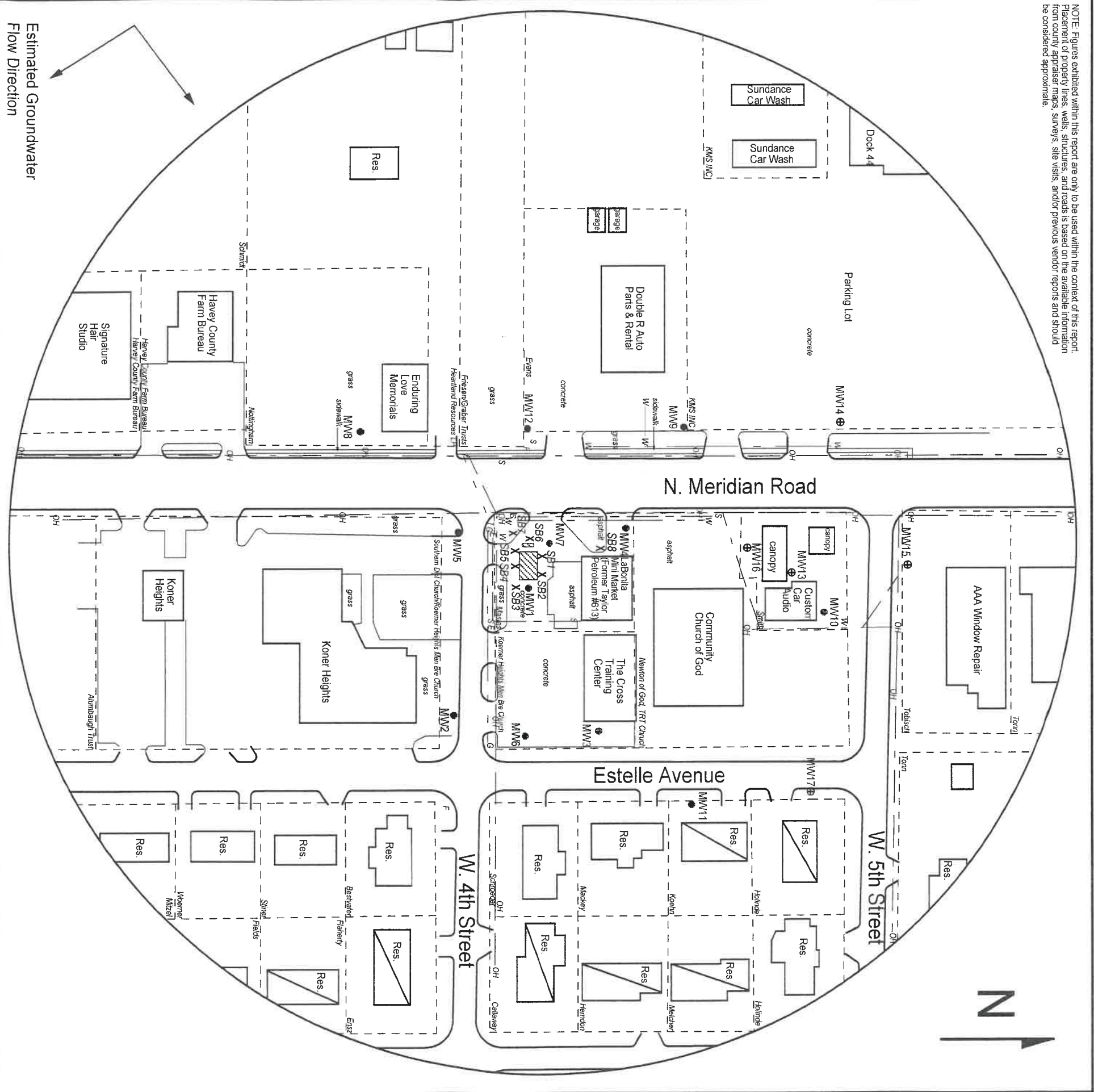















FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP


larsen
 & ASSOCIATES, INC.

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

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

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.

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