

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

Well ID

MW8

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

1 LOCATION OF WATER WELL: County Miami Fraction NW 1/4 NW 1/4 SW 1/4 NW 1/4 Section Number 12 Township Number T 18 S Range Number R 22 [X] 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: [] Business: Casey's Retail Co. Address: PO Box 3004 City Ankeny State IA ZIP: 50021

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram showing a 3x3 grid with 'X' in the NW cell and 'W' on the left side]

4 DEPTH OF COMPLETED WELL: 19 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) [] Dry Well WELLS STATIC WATER LEVEL: 12.22 ft. [X] below land surface, measured on (mo-day-yr) 3/19/18

5 Latitude: 38.49995 (decimal degrees) Longitude: 94.93622 (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: 854.98 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 2 [] Public Water Supply: well ID 3 [] Dewatering: how many wells? 4 [] Aquifer Recharge: well ID 5 [X] Monitoring: well ID MW8 6 [] Environmental Remediation: well ID 7 [] Air Sparge [] Soil Vapor Extractor 8 [] Recovery [] Injection 9 [] Oil Field Water Supply: lease 10 [] Test Hole: well ID [] Cased [] Uncased [] Geotechnical 11 [] 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 9 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft, Casing height above land surface -0.26 in. Weight _____ lbs./ft. Well thickness or gauge No _____ TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] PVC [] 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 9 ft. to 19 ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From 7 ft. to 19 ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [X] Other Concrete: 0-1' Grout intervals: From 1 ft. to 7 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? ~70 ft

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: 0, 0.5, Topsoil, silty clay. Row 2: 0.5, 15, Silty clay. Row 3: 15, 19, Silty clay w/ increasing silt.

Notes: KDHE ID: Casey's #3560; U4-061-14982 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) 3/6/18 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) 4/4/18 under the business name of Larsen & Associates, Inc. Signature _____

DENNIS L HANDKE

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TOPEKA, KANSAS 66618
785-286-4047 Home
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Jessica Chapman
Larsen & Associates
1311 E. 25th Street, Suite B
Lawrence, Kansas, 66046

April 2, 2018,

RE: Monitor Well Elevation Survey
503 E. Main, Osawatomie, Kansas

Proj. 18-00H
Casey's #3560
U4-061-14982

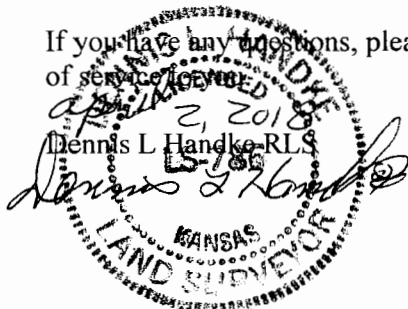
Bench Mark Square cut on Southwest corner of concrete sign base near NW corner of property.
Elev: 859.07 North 3306 West 5298 (from SE Cor. Sec. 12-18-22E)

MW-1	rim	860.51	North	3253	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	860.25	West	5171	Lat= 38.49981 Long = 94.93635
MW-2	rim	861.31	North	3274	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	860.92	West	5220	Lat= 38.49987 Long = 94.93652
MW3	rim	859.84	North	3306	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	859.43	West	5272	Lat= 38.49996 Long = 94.93560
MW-4	rim	859.39	North	3262	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	859.14	West	5309	Lat= 38.49984 Long = 94.93683
MW-5	rim	861.03	North	3138	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	860.66	West	5292	Lat= 38.49950 Long = 94.93678
MW-6	rim	856.63	North	3158	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	856.30	West	5131	Lat= 38.49955 Long = 94.93521
MW-7	rim	861.93	North	3014	SW1/4,NW1/4,SW1/4,NW1/4
	top pipe	861.60	West	5270	Lat= 38.49915 Long = 94.93670
MW-8	rim	855.24	North	3305	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	854.98	West	5135	Lat= 38.49995 Long = 94.93622
MW-9	rim	855.31	North	3260	NW1/4,NW1/4,SW1/4,NW1/4
	top pipe	854.97	West	4995	Lat= 38.49982 Long = 94.93573

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

Elevation established from USGS BM P 221, NAVD 88.

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



Miami
12-18-22E

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.

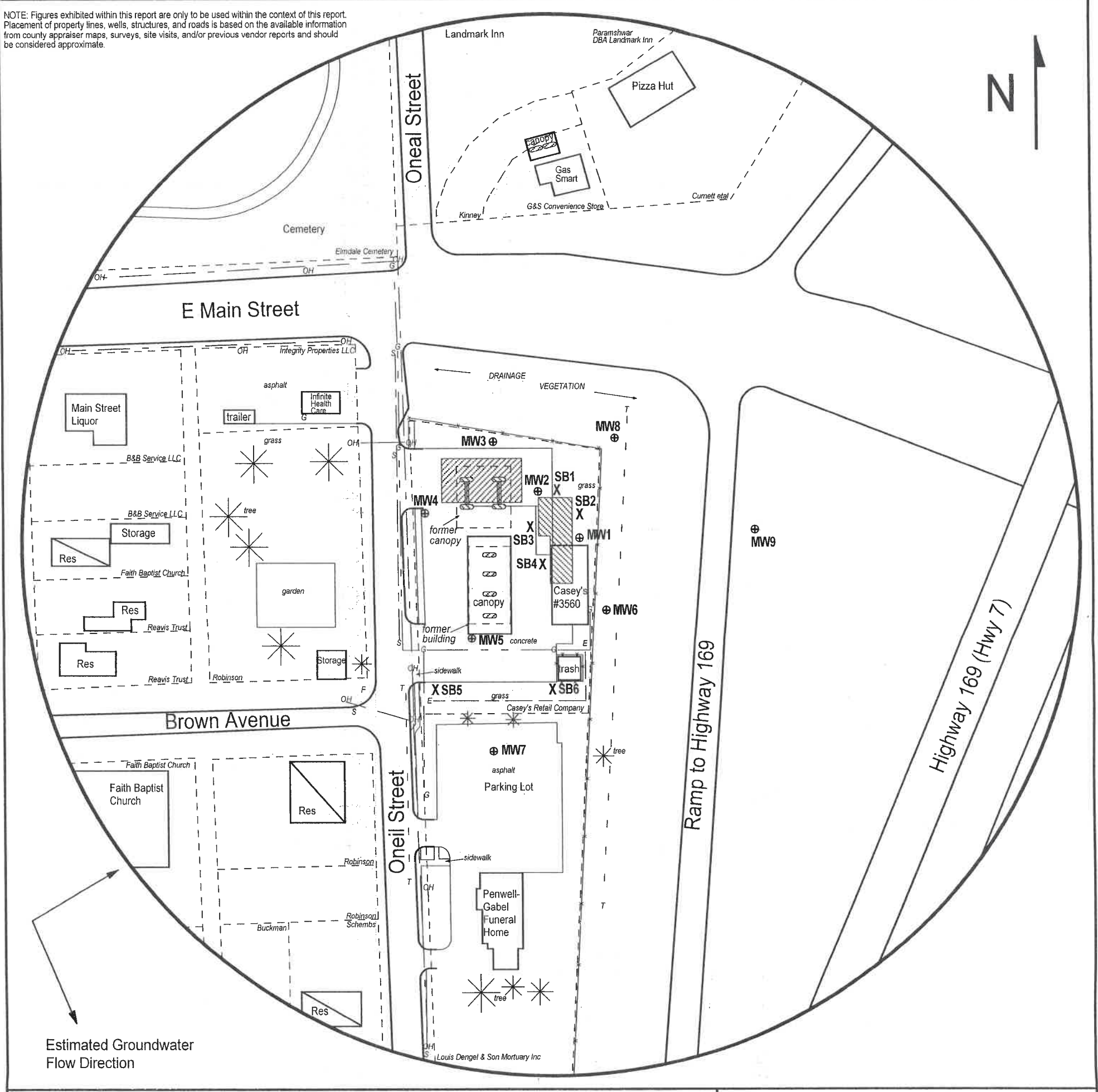


FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP

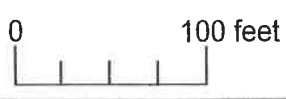
LEGEND:

- Approximate Location of Active UST Basin and Pump Islands
- Approximate Location of Former UST Basin, Product Lines and Pump Islands
- Building with Basement
- Approximate Location of Property Line
- Monitoring Well (Installed 3/5-6/18; 3/16/18)
- Soil Boring (Drilled 3/15-16/18)
- Fire Hydrant
- Electric Lines (2 - 6 ft BGS)
- Gas Lines (2 - 6 ft BGS)
- Overhead Lines (25-40 ft high)
- Sewer Lines (2 - 6 ft BGS)
- Telephone Lines (2 - 6 ft BGS)

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



PROJECT:
Casey's #3560
503 E Main
Osawatomie, KS
KDHE ID: U4-061-14982
Date: 3/19/18



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BUREAU OF WATER