

WATER WELL RECORD

Form WWC-5

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

Division of Water Resources App. No. [ ]

Well ID

MW7

1 LOCATION OF WATER WELL: County Lyon Fraction NE 1/4 NE 1/4 NE 1/4 SW 1/4 Section Number 10 Township Number T 19 S Range Number R 11 E W

2 WELL OWNER: Last Name: Shepard First: Jim 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: [ ] -40' W of 1102 Commercial, Emporia, KS

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram showing a 4x4 grid with 'X' in the center square]

4 DEPTH OF COMPLETED WELL: 50.5 ft Depth(s) Groundwater Encountered: 1) [ ] ft 2) [ ] ft 3) [ ] ft, or 4) [ ] Dry Well WELLS STATIC WATER LEVEL: 36.55 ft. [X] below land surface, measured on (mo-day-yr) 3/23/2017

5 Latitude: 38.41139 (decimal degrees) Longitude: 96.18025 (decimal degrees) Horizontal Datum: [ ] 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 1161.26 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 [ ] Monitoring: well ID MW7 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? 12 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 35.5 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.31 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) [ ] Other (Specify) 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 35.5 ft. to 50.5 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 33 ft. to 50.5 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 33 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? E Distance from well? ~80 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows show depth intervals and lithology: 0-0.7 Concrete, 0.7-12.5 Silty clay, 12.5-17.5 Silty clay w/ chert gravel, 17.5-20.5 Silty clay, 20.5-25 Silty clay w/ fine gravel and coarse sand, 25-34 Clayey silt w/ fine sand, 34-50.5 Clayey silt w/ coarse sand and chert gravel

Notes: KDHE ID: S&S Oil - Downtown: U3-056-14869 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) 3/20/17 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) 4/31/17 under the business name of Larsen & Associates, Inc. Signature [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, GWTS 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.

# 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

March 30, 2017

RE: Monitor Well Elevation Survey  
1102 Commercial, Emporia, Kansas

Proj. 17-00M  
S & S Oil - Downtown  
U3-056-14869

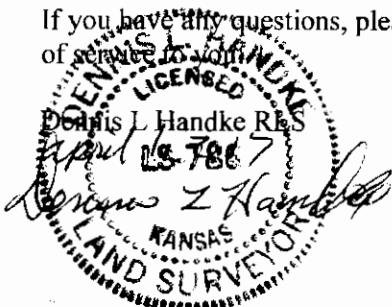
Bench Mark: Chisled Square on South center of concrete pump island West of the building.  
Elev: 1163.12      North 2297      West 2586      (from SE Cor. Sec. 10-19-11E)

MW-1	rim	1162.46	North	2266	NW1/4,NW1/4,NW1/4,SE1/4
	top pipe	1162.19	West	2566	Lat= 38.41122   Long = 96.17985
MW-2	rim	1162.60	North	2306	NW1/4,NW1/4,NW1/4,SE1/4
	top pipe	1162.35	West	2592	Lat= 38.41133   Long = 96.17994
MW-3	rim	1162.92	North	2284	NW1/4,NW1/4,NW1/4,SE1/4
	top pipe	1162.57	West	2470	Lat= 38.41127   Long = 96.17952
MW-4	rim	1163.69	North	2425	NW1/4,NW1/4,NW1/4,SE1/4
	top pipe	1163.41	West	2507	Lat= 38.41165   Long = 96.17964
MW-5	rim	1160.52	North	2199	SW1/4,NW1/4,NW1/4,SE1/4
	top pipe	1160.27	West	2551	Lat= 38.41103   Long = 96.17980
MW-6	rim	1160.53	North	2168	SE1/4,NE1/4,NE1/4,SW1/4
	top pipe	1160.23	West	2700	Lat= 38. 41095   Long = 96.18032
MW-7	rim	1161.57	North	2328	NE1/4,NE1/4,NE1/4,SW1/4
	top pipe	1161.26	West	2680	Lat= 38. 41139   Long = 96.18025

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

Elevation established from USGS BM V222 NAVD 83.

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



RECEIVED  
MAY 30 2017  
BUREAU OF WATER