

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

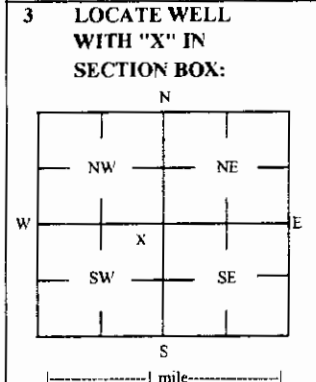
Well ID

MW6

Original Record Correction Change in Well List

1 LOCATION OF WATER WELL: County Lyon	Fraction SE ¼ NE ¼ NE ¼ SW ¼	Section Number 10	Township Number T 19 S	Range Number R 11 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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2 WELL OWNER: Last Name: Shepard First: Jim Business: S & S Oil - Downtown Address: 1102 Commercial Address: City Emporia State: KS ZIP:	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"/> ~100' SW of 1102 Commercial, Emporia, KS
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4 DEPTH OF COMPLETED WELL: 45.5 ft
 Depth(s) Groundwater Encountered: 1) _____ ft
 2) _____ ft 3) _____ ft, or 4) Dry Well
 WELL'S STATIC WATER LEVEL: 35.59 ft
 below land surface, measured on (mo-day-yr) 3/23/2017
 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

5 Latitude: 38.41095 (decimal degrees)
Longitude: 96.18032 (decimal degrees)
 Horizontal Datum: WGS 84 NAD 83 NAD 27
 Source for Latitude/Longitude:
 GPS (unit make/model: _____)
 (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper

6 Elevation: 1160.23 ft Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other

7 WELL WATER TO BE USED AS:

1 Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2 Irrigation 3 Feedlot 4 Industrial	5 <input type="checkbox"/> Public Water Supply: well ID 6 <input type="checkbox"/> Dewatering: how many wells? 7 <input type="checkbox"/> Aquifer Recharge: well ID 8 <input checked="" type="checkbox"/> Monitoring: well ID MW6 9 Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extractor <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	10 <input type="checkbox"/> Oil Field Water Supply: lease 11 Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12 Geothermal: How many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water <input type="checkbox"/> Other (specify): _____
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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 30.5 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft,
 Casing height above land surface -0.30 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 30.5 ft to 45.5 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft,
GRAVEL PACK INTERVALS: From 28 ft. to 45.5 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 28 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? NE Distance from well? ~170 ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.3	Concrete			
0.3	15.5	Silty clay			
15.5	17.5	Chert gravel w/ clay			
17.5	20.5	Silty clay w/ gravel and sand			
20.5	22	Chert gravel w/ clay and sand			
22	38.5	Clavey silt w/ sand grading to silt			
38.5	40	Cher gravel w/ coarse sand			
40	45.5	Shale			

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 constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 3/22/17 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) 4/11/17 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

March 30, 2017

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

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

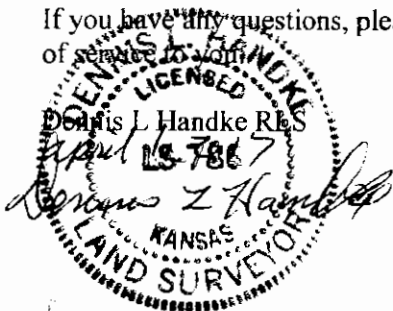
Bench Mark: Chisled Square on South center of concrete pump island West of the building.
Elev: 1163.12 North 2297 West 2586 (from SE Cor. Sec. 10-19-11E)

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