

County: Douglas Fraction NE NE SE SW Sec. 19 T 12 S R 20 E/W

CORRECTION(S) TO WATER WELL COMPLETION RECORD (WWC-5)
(to rectify lacking or incorrect information)

Owner: ELR, LLC

Location was listed as:	Location changed to:
Section-Township-Range: <u>19-12-20 E</u>	<u>19-12-20 E</u>
Fraction (1/4 1/4 1/4): <u>NW SW SE</u>	<u>NE NE SE SW</u>

Other changes: Initial statements: No Datum recorded

Changed to: Datum established as WGS84

Comments: _____

Verification method: Latitude & longitude, wellsite address & city street map, and mapping tool on KGS website.

Submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 660473726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.
initials: DRL date: 2/16/2016

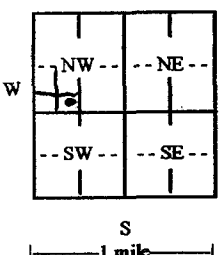
WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

AS-1

1 LOCATION OF WATER WELL: County: Douglas	Fraction NW ¼ SW ¼ SE ¼ ¼	Section Number 19	Township No. T 12 S	Range Number R 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here <input type="checkbox"/> 1010 N. 3rd Street, Lawrence, KS		Global Positioning System (GPS) information: Latitude: 38.988851 (in decimal degrees) Longitude: 95.232979 (in decimal degrees) Elevation: Datum: <input type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27 Collection Method: <input type="checkbox"/> GPS unit (Make/Model: Google Earth) <input type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input type="checkbox"/> Land Survey Est. Accuracy: <input type="checkbox"/> <3 m, <input checked="" type="checkbox"/> 3-5 m, <input type="checkbox"/> 5-15 m, <input type="checkbox"/> >15 m		
2 WATER WELL OWNER: ELR, LLC RR#, Street Address, Box #: 5590 Havana Street City, State, ZIP Code : Denver, CO 80239				

3 LOCATE WELL WITH AN "X" IN SECTION BOX: N  S 1 mile	4 DEPTH OF COMPLETED WELL 22.0' ft. Depth(s) Groundwater Encountered (1) ft. (2) ft. (3) ft. WELL'S STATIC WATER LEVEL 7.5 ft. below land surface measured on mo/day/yr. 8/21/15 Pump test data: Well water was ft. after hours pumping gpm EST. YIELD gpm. Well water was ft. after hours pumping gpm Bore Hole Diameter 8.50" in. to 22.0' ft. and in. to ft. WELL WATER TO BE USED AS: <input type="checkbox"/> Public water supply <input type="checkbox"/> Geothermal <input type="checkbox"/> Injection well <input type="checkbox"/> Domestic <input type="checkbox"/> Feedlot <input type="checkbox"/> Oil field water supply <input type="checkbox"/> Dewatering <input type="checkbox"/> Other (Specify below) <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Domestic-lawn & garden <input checked="" type="checkbox"/> Monitoring well Was a chemical/bacteriological sample submitted to Department? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, mo/day/yr sample was submitted..... Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5 TYPE OF CASING USED: Steel PVC Other

CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter 2.0" in. to 20.0' ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface Flush in., Weight lbs./ft., Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)

SCREEN-PERFORATED INTERVALS: From 20.0' ft. to 22.0' ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From 18.0' ft. to 22.0' ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete

Grout Intervals: From 0 ft. to 1.0' ft., From 1.0' ft. to 18.0' ft., From ft. to ft.

What is the nearest source of possible contamination:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Seepage pit Feedyard Fertilizer storage Oil well/gas well

Direction from well Distance from well

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
		See Boring Log			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) 07/27/2015 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 606. This Water Well Record was completed on (mo/day/year) 10/27/2015 under the business name of PSA Environmental Services, LLC by (signature) _____

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.

Project: Lawrence Stop 2 Shop Owner: CST Brands Boring No: SB-4
 Location: 1010 N 3rd Street Lawrence, KS EMR Proj. No: E239-001 Monitoring Well No: (4) Wells
→ SPE-1, AS-1, VORW-1, ORW-1

Date Drilled: May 22, 2015 Screen Dia: _____ Drilling Co: PSA
 Total Depth: 15' Length: _____ Method: Geoprobe
 Hole Diameter: _____ Slot Size: _____ Driller: Rober Tieman
 Elev. G.L.: _____ TOC: _____ Casing Dia: _____ Geologist: Kaitlin Adkisson
 Water elev: Initial: _____ Static: _____ Length: _____ Sampling Method(s): Continuous
 Type: _____ Analysis Equip: MiniRae 2000

Sample Depth	Headspace (ppm)	Depth (feet)	Graph Symbol	Lithologic Description ²	Observations/Remarks ³
		2		0'-2' No Recovery	GP-6620 Drill Rig
		4		2'-4.5' Red Silt	
5'	63.4	6		4.5'-5' Gray medium sand with mild odor	
		8		5'-7' No Recovery 7'-8' Hard Red Silt	
10'	52.4	10		8'-8.5' Moist red silt 8.5'-10' gray sand with mild odor	<div style="border: 1px solid black; padding: 5px;"> <p>Legend</p> <p> Casing</p> <p> Screen</p> <p> Grout</p> <p> Sand</p> <p> Bentonite</p> <p> Concrete</p> <p>▼ Static Water Level</p> </div>
11'	1785.0	12		10'-12' Moist gray clay, odor	
		14		12'-13' Grayish Red sand, medium grain, no odor	
		16		13'-15' no recovery	
		18			
		20			
		22		Total Depth = 15.0'	
		24			
		26			
		28			
		30			

Well logged by Kaitlin Adkisson, Project Geologist
 EMR Infrastructure and Environment, Lawrence, Kansas (785) 842-9013