

County: Douglas Fraction NE NE SE SW Sec. 19 T 12 S R 20 EW

CORRECTION(S) TO WATER WELL COMPLETION RECORD (WWC-5)

(to rectify lacking or incorrect information)

Owner: ELR, LLC

Location was listed as:

Section-Township-Range: 19-12S-20E

Fraction (1/4 1/4 1/4): NW SW SE

Location changed to:

19-12S-20E

NE NE SE SW

Other changes: Initial statements: No Datum recorded

Changed to: Datum established as WGS 84

Comments: _____

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

Submitted by: _____ initials: DR date: 2/16/2016
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.

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

OBW-1

1 LOCATION OF WATER WELL: County: **Douglas** Fraction **NW 1/4 SW 1/4 SE 1/4 1/4** Section Number **19** Township No. **T 12 S** Range Number **R 20** E W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here **1010 N. 3rd Street, Lawrence, KS**

2 WATER WELL OWNER: **ELR, LLC**
RR#, Street Address, Box #: **5590 Havana Street**
City, State, ZIP Code : **Denver, CO 80239**

Global Positioning System (GPS) information:
Latitude: **38.988828** (in decimal degrees)
Longitude: **95.232980** (in decimal degrees)
Elevation:
Datum: WGS 84, NAD 83, NAD 27
Collection Method:
 GPS unit (Make/Model: **Google Earth**)
 Digital Map/Photo, Topographic Map, Land Survey
Est. Accuracy: <3 m, 3-5 m, 5-15 m, >15 m

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

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: Public water supply Geothermal Injection well
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Domestic-lawn & garden Monitoring well

Was a chemical/bacteriological sample submitted to Department? Yes No
If yes, mo/day/yr sample was submitted.....
Water well disinfected? Yes No

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) **10/21/2015** 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, OBW-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