MW-26

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

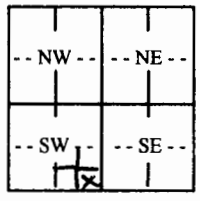
1 LOCATION OF WATER WELL: County: Sedgwick | Fraction: SW ¼ SE ¼ SE ¼ SW ¼ | Section Number: 27 | Township No.: T 26 S | Range Number: R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
2100 East 37th Street North Wichita, KS 67219

Global Positioning System (GPS) information:
Latitude: 37.45.10.22 (in decimal degrees)
Longitude: 97.18.35.97 (in decimal degrees)
Elevation:
Datum: ☐ WGS 84, ☐ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin GPS 12)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☐ 3-5 m, ☑ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Chevron Env. Management Company
RR#, Street Address, Box #: 6111 Bollinger Canyon Road
City, State, ZIP Code : San Ramon, CA 94583

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



4 DEPTH OF COMPLETED WELL 20.0' ft.
Depth(s) Groundwater Encountered (1) ft. (2) ft. (3) ft.
WELL'S STATIC WATER LEVEL 6.88' ft. below land surface measured on mo/day/yr. 5/27/09
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 20.0' 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" in. to 5.0' ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface 3.0' 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 5.0' ft. to 20.0' ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 3.0' ft. to 20.0' ft., From ft. to ft.
From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other
Grout Intervals: From 0 ft. to 3.0' ft., From ft. to 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 North Distance from well 1500'

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) 4-28-09 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) 7-17-09 under the business name of PSA Environmental 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.

KSA 82a-1212 Check: ☑ White Copy, ☐ Blue Copy, ☐ Pink Copy

URS Austin, Texas

MONITOR WELL LOG

Well ID: MW-26

Total Depth: 20 ft bgs

PROJECT INFORMATION	DRILLING INFORMATION
Project Name: Former Unocal Chemical Distribution Facility	**Drilling Company:** PSA Environmental
Location: Wichita, KS	**Driller:** Aaron Butler
Logged By: Kim Nguyen	**Drilling Equipment:** Geoprobe 6620 DT
Project Manager: Derek Peacock	**Drilling Method:** Hollow Stem Auger
Ground Surface Elevation (ft, MSL): 1349.17	**Sampling Method:** DPT
Top of Casing Elevation (ft, MSL): 1352.20	**Borehole Diameter:** 8.5 inch
Coordinates: N 1710027.08 E 1656362.34	**Dates Drilled:** 4/27/09-4/28/09

Elevation (ft MSL)	Depth (ft bgl)	Recovery	PID (ppmv)	USCS	Symbol	Lithologic Description and Notes	Well Completion	Well Description
1350	-2							STEEL PROTECTIVE CASING
	-1							
	0		N/A	CH		FILL: 0-2 ft, SANDY CLAY, dark grayish brown (10YR 4/2), medium stiff, medium to high plasticity, very moist to wet, medium to coarse sand, with roots and grass		CONCRETE WELL PAD: 2 ft x 2 ft
	1							BENTONITE SEAL: 1 to 3 ft
	2			CH		SILTY CLAY: 2-3.5 ft, with trace medium SAND, grayish brown (10YR 5/2), medium stiff, high plasticity, very moist, manganese inclusions, minor iron staining, no odor		CASING: 2-inch, Schedule 40 PVC
	3							FILTER PACK: 3 to 20 ft, 10/20 Silica Sand
1345	4			–		NO RECOVERY: 3.5-5 ft		
	5			SW		SAND: 5-5.75 ft, with CLAY, loose to medium dense, wet, medium to very coarse		SCREEN: 5 to 20 ft, 2-inch PVC, 0.010-inch slot
	6			CL		SILTY CLAY: 5.75-8.5 ft, with trace GRAVEL up to 0.75 inches in diameter, olive yellow (2.5Y 6/6), stiff to very stiff, very moist to wet 6-6.25 ft, SAND lens, fragmented SHALE, very coarse, very moist to wet, slight hydrocarbon odor		
	7							
	8					7.5-7.75 ft, SAND lens, fragmented SHALE, gray (2.5Y 5/1), very coarse, wet, hydrocarbon odor		
1340	9			ML		CLAYEY SILT: 8.5-10 ft, light olive brown (2.5Y 5/4), medium stiff, friable, dry to moist, hydrocarbon odor		
	10			SW		SAND: 10-11.5 ft, with CLAY, medium dense, medium to very coarse, slight hydrocarbon odor		
	11							
	12			ML		CLAYEY SILT: 11.5-19 ft, light yellowish brown (2.5Y 6/4), stiff to very stiff, low to medium plasticity, dry to damp, manganese inclusions, iron staining, slight hydrocarbon odor		
	13							
1335	14					14-15 ft, grades very stiff to hard		

Elevation (ft MSL)	Depth (ft bgl)	Recovery	PID (ppmv)	USCS	Symbol	Lithologic Description and Notes	Well Completion	Well Description
	15			MH		15 ft, pale olive (5Y 6/4), very stiff to hard, high plasticity, moist		
	16							
	17							
	18					18 ft, grades with decrease in CLAY, light yellowish brown (10YR 6/4), hard, friable, dry to damp 18.75 ft, grades pale olive (5Y 6/3), hard, dry 19 ft, refusal		
1330	19					Borehole Total Depth = 19 ft bgs Well Total Depth = 20 ft bgs *Sample was stuck in sampler and extracted from 15-20 ft. The 15-20 ft sample description is general and approximate.* * PID was not functioning properly.*		
	20							
	21							