

WATER WELL RECORD

Form WWC-5

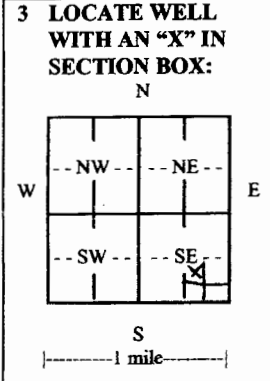
Division of Water Resources App. No.

MW-9

1 LOCATION OF WATER WELL: County: COWLEY Fraction SE 1/4 SE 1/4 NW 1/4 1/4 Section Number 28 Township No. T 32 S Range Number R 4 [X]E []W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: 1110 Main Street, Winfield, KS 67156 Global Positioning System (GPS) information: Latitude: 37.2379 Longitude: 96.9973 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, [X] 3-5 m, [] 5-15 m, [] >15 m

2 WATER WELL OWNER: BP/Amoco RR#, Street Address, Box #: 1701 Summit Avenue City, State, ZIP Code : Plano, TX 75074



3 LOCATE WELL WITH AN 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL 24.0' ft. Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL 16.32' ft. below land surface measured on mo/day/yr. 2/5/15 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 24.0' 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 [X] Monitoring well Was a chemical/bacteriological sample submitted to Department? [] Yes [X] No If yes, mo/day/yr sample was submitted..... Water well disinfected? [] Yes [X] No

5 TYPE OF CASING USED: [] Steel [X] PVC [] Other CASING JOINTS: [] Glued [] Clamped [] Welded [X] Threaded Casing diameter 2.0" in. to 14.0' 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 [X] PVC [] Other (Specify) [] Brass [] Galvanized Steel [] None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: [] Continuous slot [X] 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 14.0' ft. to 24.0' ft., From..... ft. to..... ft. GRAVEL PACK INTERVALS: From 12.0' ft. to 24.0' ft., From..... ft. to..... ft.

6 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [X] Other Concrete Grout Intervals: From 0 ft. to 1.0' ft., From 1.0' ft. to 12.0' 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) [X] 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.....

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: FROM, TO, See Boring Log, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS

7 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) 02/04/2015 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) 02/23/2015 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.

SCS AQUATERRA

7311 West 130th, Overland Park, KS 66213

LOG OF BORING NO.: **MW-9**

SHEET NUMBER 1 of 2

WELL ID TAG:

DRILLING CONTRACTOR: PSA Environmental

WELL CONSTRUCTION DETAILS

CLIENT: KDHE-BER

DRILLER: Aaron Butler

MATERIAL: PVC

PROJECT NAME: Former Standard Site

DRILLING RIG: Geoprobe 6610 DT

DIAMETER: 2 IN

KDHE PROJECT NO: U2-018-14413

DRILLING METHOD: Dual Tube Macro

WELL TOTAL DEPTH: 24 FT BGS

PROJECT LOCATION: 1110 Main Street, Winfield, KS

SAMPLING METHOD: 5' Continuous Sampler

SCREEN LENGTH: 10 FT

BORING LOCATION: Northeast corner of the Bank of the West property

BORING DIAMETER: ~8.5"

RISER LENGTH: 14 FT

WELL DIAMETER: 2"

TOP OF SCREEN: 14 FT BGS

PROJECT NUMBER: 27213266.10

SURFACE ELEVATION:

BOTTOM OF SCREEN: 24 FT BGS

GEOLOGIST: Adam Parris

TOC ELEVATION:

SCREEN SLOT: 0.01 IN

START DATE: 2/4/2015 FINISH DATE: 2/4/2015

WATER LEVEL:

TOP OF FILTER PACK: 12 FT BGS

START TIME: 12:35 FINISH TIME: 13:50

WATER ELEVATION: 0.00

TOP OF SEAL: 1.5 FT BGS

TYPE OF SEAL: Bentonite Chips

DATE:

TYPE OF FILTER PACK: Silica Sand

SAMPLE TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY (INCHES)	DEPTH IN FEET	USCS CLASS	C I
	0-5	0		1	CL	
	5-10	1		7		
	10-15	2		13		
	15-20	8		18		
				19	SP	

SOIL DESCRIPTION AND DRILLING CONDITIONS

NOTES AND WELL CONSTRUCTION

Grass, Topsoil
Silty CLAY, Dark Brown, Moist, Medium Stiff, Plastic

Flush-mount completion

CLAY, Reddish Brown, Moist, Stiff, Highly Plastic

Bentonite chips 0.5 to 10'

~ soft, very moist

CLAY, stained light gray, saturated, with coarse SAND

Petro Odor and Staining

V Gravel Pack 10 to 22'

LEGEND:

PID - Photoionization Detector
 SS - Split Spoon
 CS - 5 foot CME Sampler
 ST - Shelby Tube
 HA - Hand Auger
 PP - Pocket Penetrometer
 HSA - Hollow Stem Augers
 WB - Wash Bore
 RB - Rock Bit
 NX - Rock Core

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: ACTUAL TRANSITIONS MAY BE GRADUAL.