MW-13

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

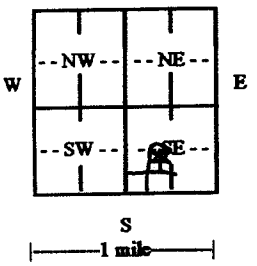
1 LOCATION OF WATER WELL: County: Comanche | Fraction: SE ¼ SW ¼ NE ¼ NW ¼ | Section Number: 3 | Township No.: T 33 S | Range Number: R 20 ☐E ☑W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
401 N. Broadway Avenue, Protection, KS 67127

Global Positioning System (GPS) information:
Latitude: 37.2038 (in decimal degrees)
Longitude: 99.4840 (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

2 WATER WELL OWNER: Farmers Coop
RR#, Street Address, Box #: 401 N. Broadwav Avenue
City, State, ZIP Code : Protection, KS 67127

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



4 DEPTH OF COMPLETED WELL 26.0' ft.
Depth(s) Groundwater Encountered (1) ft. (2) ft. (3) ft.
WELL'S STATIC WATER LEVEL 18.06' ft. below land surface measured on mo/day/yr. 2/17/15
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 26.0' 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 11.0' 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 11.0' ft. to 26.0' ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 9.0' ft. to 26.0' 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 9.0' 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 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) 01/21/2015 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) 04/01/2015 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

KSA 82a-1212

Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

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7311 West 130th Street, Suite 100, Overland Park, KS, 66213

CLIENT:	Farmers Coop
PROJECT NAME:	Former Protection Coop Supply
PROJECT NUMBER:	U1-017-00242
PROJECT LOCATION:	401 North Broadway, Protection, Kansas
BORING LOCATION:	Southeast corner of Broadway and Chestnut
PROJECT NUMBER:	27214275.00
GEOLOGIST:	Adam Parris
START DATE:	1/21/2015 FINISH DATE: 1/21/2015
START TIME:	14:45 FINISH TIME: 16:10

LOG OF BORING NO.: **MW-13**

KDHE ID TAG: 0051140

DRILLING CONTRACTOR:	PSA Environmental
DRILLER:	Aaron Butler
DRILLING RIG:	Geoprobe 6620 DT
DRILLING METHOD:	Direct Push
SAMPLING METHOD:	4' Continous Dual Tube
BORING DIAMETER:	8"
WELL DIAMETER:	2"
WELL COMPLETION:	Flush Mount
SURFACE ELEVATION:	
TOC ELEVATION:	
WATER LEVEL:	
WATER ELEVATION:	0.00
DATE:	

SHEET NUMBER 1 of 2

WELL CONSTRUCTION DETAILS

MATERIAL:	PVC	
DIAMETER:	2	IN
WELL TOTAL DEPTH:	26	FT BGS
SCREEN LENGTH:	15	FT
RISER LENGTH:	11	FT
TOP OF SCREEN:	11	FT BGS
BOTTOM OF SCREEN:	26	FT BGS
SCREEN SLOT:	0.01	IN
TOP OF FILTER PACK:	9	FT BGS
TOP OF SEAL:	1.5	FT BGS
TYPE OF SEAL:	3/8" Bentonite Chips	
TYPE OF FILTER PACK:	10/20 Silica Sand	

SAMPLER TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY	DEPTH (FEET)	USCS CLASS	C I	SOIL DESCRIPTION AND DRILLING CONDITIONS	NOTES AND WELL CONSTRUCTION
DT	0-4'	3	24"	1-4			GRASS, TOPSOIL, SILT, SAND SILT, clayey, dark brown, slightly moist, medium stiff	
DT	4-8'	2	30"	4-8			CLAY, silty, brown, slightly moist, stiff, plastic	
DT	8-12'	6	40"	8-12			SILT, clayey, brown, moist, medium stiff, medium plastic to trace plasticity	
DT	12-16'	12	30"	12-16				Petro odor and staining
DT	16-20'	148	42"	16-20			SILT, clayey, stained dark gray, saturated, soft, trace plasticity	

LEGEND:

SS - Split Spoon
CS - 5 foot CME Sampler
ST - Shelby Tube
PID - Photoionization Detector
PP - Pocket Penetrometer
HSA - Hollow Stem Augers
DT - Dual Tube Sampler
HA - Hand Auger
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.

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LOG OF BORING NO.: **MW-13**

KDHE ID TAG: 0051140

SHEET NUMBER 2 of 2

7311 West 130th Street, Suite 100, Overland Park, KS, 66213

GEOLOGIST: Adam Parris

CLIENT: Farmers Coop

DATE: 1/21/2015

PROJECT NAME: Former Protection Coop Supply

PROJECT NUMBER: U1-017-00242

SAMPLER TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY	DEPTH (FEET)	USCS CLASS	C I	SOIL DESCRIPTION AND DRILLING CONDITIONS	NOTES AND WELL CONSTRUCTION
DT	20-24'	2164	48"	21			SILT, stained dark gray, saturated, trace CLAY	High petro odor and staining
				22			SAND, silty, fine grain, stained black, saturated	
				23				
				24				
				25				
				26			*Boring Terminated at 26'*	V
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LEGEND:

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CS - 5 foot CME Sampler
ST - Shelby Tube

PID - Photoionization Detector
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HSA - Hollow Stem Augers
DT - Dual Tube Sampler

HA - Hand Auger
WB - Wash Bore
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