WATER WELL RECORD **Form WWC-5** Division of Water Resources App. No. AMW-11

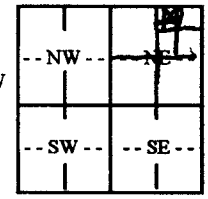
1 LOCATION OF WATER WELL: County: Meade | Fraction: NE ¼ NE ¼ NW ¼ NE ¼ | Section Number: 11 | Township No.: T 32 S | Range Number: R 28 ☐E ☑W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Carthage & State Street

2 WATER WELL OWNER: City of Meade
RR#, Street Address, Box #: 132 S. Fowler
City, State, ZIP Code : Meade, KS 67864

Global Positioning System (GPS) information:
Latitude: 37.285359 (in decimal degrees)
Longitude: 100.331991 (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 35.0' ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL 17.21' ft. below land surface measured on mo/day/yr. 12/15
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 8.5' in. to 35.0' 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 10.0' 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 10.0' ft. to 35.0' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 8.0' ft. to 35.0' 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 1.0' ft., From 1.0' ft. to 8.0' 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) 12/16/2015 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) 01/27/2016 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.

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

SCS AQUATERRA

LOG OF BORING NO.: **AMW-11**

SHEET NUMBER 1 of 2

7311 West 130th St, Overland Park, KS 66213

CLIENT:	City of Meade
PROJECT NAME:	Former Alley Oil
PROJECT NUMBER:	27215218.00
PROJECT LOCATION:	Carthage and State Street
BORING LOCATION:	NW Corner of Property
AES PROJECT NO:	27215218.00
AES GEOLOGIST:	Alex McCormick
START DATE:	12/16/15
FINISH DATE:	12/16/15
START TIME:	1345
FINISH TIME:	1515

DRILLING CONTRACTOR:	PSA
DRILLER:	
DRILLING RIG:	GeoProbe
DRILLING METHOD:	Hollow Stem Augers
SAMPLING METHOD:	Dual Tube
BORING DIAMETER:	8.5"
WELL DIAMETER:	2"
WELL COMPLETION:	Flushmount
SURFACE ELEVATION:	2444.40
TOC ELEVATION:	2443.02
WATER LEVEL:	17.21
WATER ELEVATION:	2425.81
DATE:	

WELL CONSTRUCTION DETAILS

MATERIAL:	PVC	
DIAMETER:	2	IN
WELL TOTAL DEPTH:	35	FT BGS
SCREEN LENGTH:	25	FT
RISER LENGTH:	10	FT
TOP OF SCREEN:	10	FT BGS
BOTTOM OF SCREEN:	35	FT BGS
SCREEN SLOT:	0.010	IN
TOP OF FILTER PACK:	8	FT BGS
TOP OF SEAL:	6	FT BGS
TYPE OF SEAL:	Bentonite Chips	
TYPE OF FILTER PACK:	Silica Sand	

SAMPLE TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY (INCHES)	DEPTH IN FEET	USCS CLASS	C I	SOIL DESCRIPTION AND DRILLING CONDITIONS	NOTES AND WELL CONSTRUCTION
	0-5	0.7		1			Concrete, gravel	
				2				
				3			CLAY, sandy, brown to dark brown, soft, mois	
				4				
				5				
	5-10	1.3		6				
				7				
				8			Moisture increasing with depth	
				9				
				10				
	10-15	2.5		11				
				12				
				13				
				14				
				15				
	15-20	8.8		16				
				17			SAND, gray, wet, coarse grained	Petro Odor
				18				
				19				
				20				

LEGEND:

SS - Split Spoon
CS - 5 foot CME Sampler
ST - Shelby Tube

PID - Photoionization Detector
PP - Pocket Penetrometer
HSA - Hollow Stem Augers

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.

SCS AQUATERRA

7311 West 130th, Overland Park, KS 66213

LOG OF BORING NO.: **AMW-11**

SHEET NUMBER 2 of 2

CLIENT: City of Meade

GEOLOGIST: Alex McCormick

PROJECT NAME: Former Alley Oil

DATE:

PROJECT NUMBER: 27215218.00

SAMPLER TYPE	SAMPLE DEPTH	PID (PPM)	RECOVERY (INCHES)	DEPTH IN FEET	USCS CLASS	C I	SOIL DESCRIPTION AND DRILLING CONDITIONS	NOTES AND WELL CONSTRUCTION
	20-25	57.1		21 22 23 24 25			SAND, gray, wet, coarse grained	Petro Odor
	25-30	44.2		26 27 28 29 30				
	30-35	35.7		31 32 33 34 35				
				36 37 38 39 40 41 42 43 44 45			End of Boring at 35'	

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