

**WATER WELL RECORD**

**Form WWC-5**

Division of Water Resources App. No.

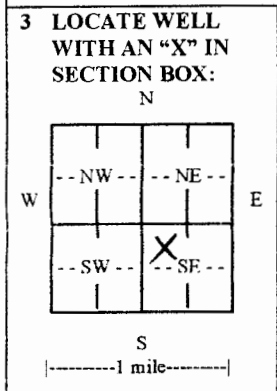
PMW-1

<b>1 LOCATION OF WATER WELL:</b> County: Crawford	Fraction SE ¼ NW ¼ ¼ ¼	Section Number 29	Township No. T 30 S	Range Number R 25 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here .  
305 South Joplin Street, Pittsburg, KS 66762

**Global Positioning System (GPS) information:**  
 Latitude: 37.7063 (in decimal degrees)  
 Longitude: 94.6997 (in decimal degrees)  
 Elevation: .....  
 Datum:  WGS 84,  NAD 83,  NAD 27  
 Collection Method:  
 GPS unit (Make/Model: Garmin 12)  
 Digital Map/Photo,  Topographic Map,  Land Survey  
 Est. Accuracy:  <3 m,  3-5 m,  5-15 m,  >15 m

**2 WATER WELL OWNER:** Red Giant Oil Company  
 RR#, Street Address, Box #: 305 South Joplin Street  
 City, State, ZIP Code : Pittsburg, KS 66762



**4 DEPTH OF COMPLETED WELL 15.0'** ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.  
 WELL'S STATIC WATER LEVEL 7.58' ft. below land surface measured on mo/day/yr. 1/16/14  
 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 6.50 in. to 15.0' 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 7.0' 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 7.0' ft. to 15.0' ft., From..... ft. to..... ft.  
 GRAVEL PACK INTERVALS: From 5.0' ft. to 15.0' 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 5.0 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) 1/16/2014 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) 3/13/2014 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>.

29-30-25E

# WELL LOG NO. PMW-1

**PROJECT:** Red Giant Oil VC Company

**CLIENT:** Red Giant Oil Co Searle Petroleum Co

**SITE:** 305 South Joplin Street  
Pittsburg, Kansas

GRAPHIC LOG	LOCATION <small>see Exhibit 2</small>	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	FIELD VAPOR TEST (ppm)	SOIL SAMPLE SENT TO LABORATORY
	DEPTH	MATERIAL DESCRIPTION						
		<b>SILTY CLAY</b> , gravel (crushed limestone) at surface, reddish brown	5	▽		92	<1	-
	12.0	<b>SILTY CLAY</b> , dark brown, with shale chunks				100	<1	-
	14.5	<b>SHALE</b>						
	15.0	<b>Boring Terminated at 15 Feet</b>	15					

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Hollow Stem Auger

Abandonment Method:  
Hydrated Bentonite

Notes:

**WATER LEVEL OBSERVATIONS**

▽ 7.58'

## Terracon

764 N. Miller Ave., Suite 100  
Springfield, Missouri

Well Started: 1/16/2014

Well Completed: 1/16/2014

Drill Rig: GEOPROBE

Driller:

Project No.: 02127042

Exhibit: PMW-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 02127042.GPJ TERRACON2012.GDT 2/25/14