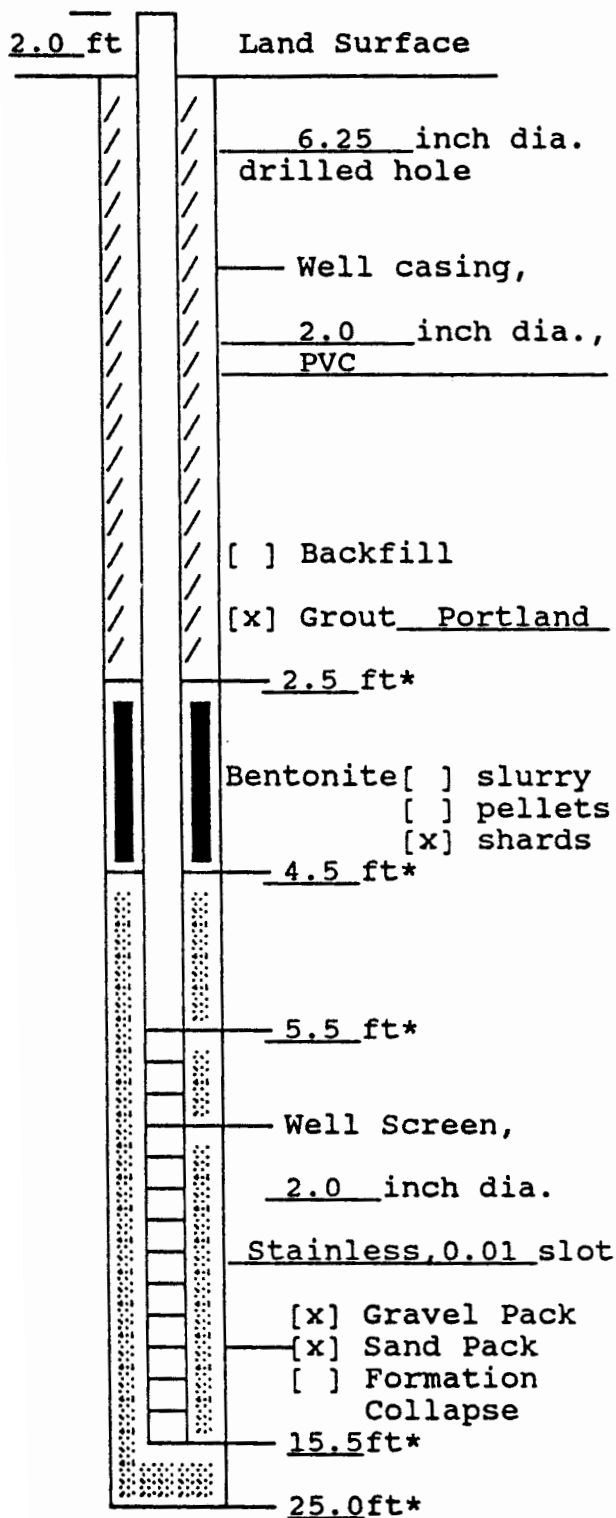


1 LOCATION OF WATER WELL: County: <u>Barton</u>		Fraction: <u>NE 1/4 SW 1/4 SE 1/4</u>		Section Number: <u>27</u>		Township Number: <u>T 27</u>		Range Number: <u>S 4 R 4</u>	
2 WATER WELL OWNER: <u>Williams Pipeline Co.</u> RR#, St. Address, Box #: <u>2nd 900K</u> City, State, ZIP Code: <u>Augusta, KS.</u>									
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: 									
4 DEPTH OF COMPLETED WELL: <u>15.5</u> ft. ELEVATION: <u>5-5-89</u> Depth(s) Groundwater Encountered: 1. <u>14.62</u> ft. below land surface measured on mo/day/yr WELL'S STATIC WATER LEVEL: <u>14.62</u> ft. below land surface measured on mo/day/yr 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: <u>8</u> in. to _____ ft. and _____ in. to _____ ft. WELL WATER TO BE USED AS: 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Observation well Was a chemical/bacteriological sample submitted to Department? Yes _____ No <u>X</u> ; If yes, mo/day/yr sample was submitted _____ Water Well Disinfected? Yes _____ No <u>X</u>									
5 TYPE OF BLANK CASING USED: 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____ 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____ Blank casing diameter: <u>2</u> in. to _____ ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft. Casing height above land surface: <u>24</u> in., weight _____ lbs./ft. Wall thickness or gauge No. <u>SCH 40</u> TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) _____ 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes 10 Other (specify) _____ SCREEN-PERFORATED INTERVALS: From <u>5.5</u> ft. to <u>15.5</u> ft., From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From <u>4.5</u> ft. to <u>25</u> ft., From _____ ft. to _____ ft.									
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____ Grout intervals: From <u>0</u> ft. to <u>2.5</u> ft., From <u>2.5</u> ft. to <u>4.5</u> ft., From _____ ft. to _____ ft. What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below) Direction from well? <u>All</u> How many feet? <u>0</u>									
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>5-2-89</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>468</u> This Water Well Record was completed on (mo/day/yr) <u>8-1-89</u> under the business name of <u>J & R Drilling Services Inc.</u> by (signature) <u>Ray Coors</u> INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water Protection, Topeka, Kansas 66620-7320, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.									

WELL CONSTRUCTION LOG



Measuring Point is Top of Well Casing Unless Otherwise Noted.

NA = Not Applicable

* = Depth below land surface

Project OK1333RC01 Well GM5S

Town/City Augusta

County Butler State KS

Permit No. NA

Measuring Point(*) Elevation

[x] surveyed
ft AMSL [] estimated
(*) Measuring Point is top of casing

Installation Dates(s) 5/2/89

Drilling Method Hollow Stem Auger

Drilling Contractor J&R Drilling

Drilling Fluid NA

Development Techniques(s) and Dates(s)

Bailing; 5/5/89

Fluid Loss During Drilling NA gal

Water Removed During Dev. 4.5 gal

Static Depth to Water 14.62 ft below MP

Pumping Depth to Water NA ft below MP

Pumping Duration NA hours

Yield NA gpm Date

Specific Capacity NA gpm/ft

Well Purpose Ground-water monitoring

Remarks

Bentonite plug hydrated w/ distilled water.

Prepared by JPS

SAMPLE/CORE LOG

Boring/Well GM5S Project/No. OK1333RC01 Page 1 of 1

Site Location Augusta, KS Drilling Started 3:10 Drilling Completed 4:30

Total Depth Drilled 24.0 feet Hole Diameter 6.25 inches Type of Sample/
Coring Device Split Spoon

Length and Diameter of Coring Device 5'x 3.75" Sampling Interval Continuous feet

Land-Surface Elev. feet ☒ Surveyed ☐ Estimated Datum AMSL

Drilling Fluid Used None Drilling Method H.S. Auger

Drilling Contractor J&R Drilling Driller John Coons Helper Greg

Prepared By JPS Hammer Weight NA Hammer Drop NA inches

Smpl/Core Depth (ft BLS) From To Core Rec. (ft) Time/Hydraulic Press. or Blows/6 in.

Sample/Core Description

0.0	2.0	1.8	03	SILTY CLAY- (topsoil fill), drk. brn.-blk.,
				abund. roots, sl. damp, no odor.
2.0	4.0	2.0	01	CLAY- drk. brn., silty, mottled w/ Fe oxide
				stains, dense, no odor.
4.0	9.0	5.0		CLAY- drk. grey, silty, dense, Fe oxide stains,
				sl. damp, sl. hydrocarbon odor.
9.0	14.0	3.8		CLAY- drk. grey, silty, sl. pliable, sl. damp
				w/ hydrocarbons, hydrocarbon odor, <HNU = 20 ppm>
14.0	19.0	5.0		SILTY CLAY- drk. grey-grnish grey, sl. pliable,
				few gravel clasts, sl. damp, sl. hydrocarbon
				odor, coarsens downward into silt.
19.0	23.0	4.0	03	CLAYEY SILT- grey to grnish-grey, sandy, few
				gravel clasts, sl. damp, sl. hydrocarbon odor.
23.0	24.0	1.0	05	SAND- grey to grnish-grey, v.f.-f. grained,
				silty, clayey, sparse gravel clasts, wet w/
				water and hydrocarbons.