

County: HARVEY Fraction: SE SE SE Sec. 19 T 22 S R 3 E/W

**CORRECTION(S) TO WATER WELL COMPLETION RECORD (WWC-5)**

(to rectify lacking or incorrect information)

Owner: Equis Beds GMD 2

Location was listed as:

Location changed to:

Section-Township-Range: \_\_\_\_\_

Fraction ( $\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$ ): \_\_\_\_\_

Other changes: Initial statements: Well use listed as 'dewatering'  
(lithologic log also corrected, see attachment)

Changed to: Well use was Environmental Remediation-  
Recovery

Comments: well was used to withdraw contaminated water.

Verification method: previous Equis Beds GMD 2 Manager, Mike Realy

initials: MS date: 2/27/2013

Submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence KS 66047-3726

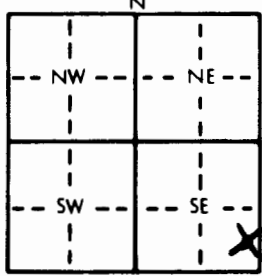
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

1 LOCATION OF WATER WELL: County: <u>Harvey</u>	Fraction <u>SE</u> $\frac{1}{4}$ <u>SE</u> $\frac{1}{4}$ <u>SE</u> $\frac{1}{4}$	Section Number <u>19</u>	Township Number <u>T 22 S</u>	Range Number <u>R 3</u>
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Distance and direction from nearest town or city street address of well if located within city?

6 miles &amp; 1 mile West of Burrton, KS

2 WATER WELL OWNER: <u>Equus Beds GWD #2</u> RR#, St. Address, Box # : <u>313 Spruce</u> City, State, ZIP Code : <u>Halstead, KS 67056</u>	Board of Agriculture, Division of Water Resources Application Number:
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3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: 	4 DEPTH OF COMPLETED WELL: <u>226</u> ft. ELEVATION: Depth(s) Groundwater Encountered 1. <u>21</u> ft. 2. _____ ft. 3. _____ ft. WELL'S STATIC WATER LEVEL <u>21</u> ft. below land surface measured on mo/day/yr <u>9/18/19/21/89</u> Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm Est. Yield <u>100</u> gpm: Well water was _____ ft. after _____ hours pumping _____ gpm Bore Hole Diameter <u>10</u> in. to <u>226</u> ft., and _____ in. to _____ ft. WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 <u>Dewatering</u> 12 Other (Specify below) <u>Salt water</u> 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring 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 <u>X</u> No _____
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5 TYPE OF BLANK CASING USED: 1 Steel 3 RMP (SR) <u>2 PVC</u> 4 ABS Blank casing diameter <u>6</u> in. to <u>220</u> ft., Dia. _____ in. to _____ ft., Dia. _____ in. to _____ ft. Casing height above land surface <u>12</u> in., weight <u>3.55</u> lbs./ft. Wall thickness or gauge No. <u>.255</u>	5 Wrought iron 8 Concrete tile CASING JOINTS: Glued <u>X</u> Clamped _____ 6 Asbestos-Cement 9 Other (specify below) Welded _____ 7 Fiberglass Threaded _____
TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 <u>Stainless steel</u> 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 <u>.030</u> 7 Torch cut 10 Other (specify) _____
SCREEN-PERFORATED INTERVALS: From <u>220</u> ft. to <u>226</u> ft., From _____ ft. to _____ ft. From _____ ft. to _____ ft., From _____ ft. to _____ ft.	GRAVEL PACK INTERVALS: From <u>206</u> ft. to <u>226</u> ft., From _____ ft. to _____ ft. From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 <u>Bentonite</u> 4 Other _____ Grout Intervals: From <u>0</u> ft. to <u>206</u> ft., From _____ ft. to _____ 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) <u>Oil field disposal</u> Direction from well? <u>Northwest</u> How many feet? <u>250ft</u> well
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FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	2	Top Soil	219	221	Clay
2	34	Brown Clay	221	224	Sand - <u>SALT WATER</u>
34	37	Fine Sand	224	226	Conglomerate
37	42	Gray Clay with small sand layers			
42	105	Sands			
105	107	Gray Clay			
107	135	Sand with small clay layers			
135	138	Clay			
138	147	Sand			
147	155	Sand with small clay layers			
155	201	Sand			
201	202	Conglomerate			
202	205	Clay			
205	219	Sand - <u>SALT WATER</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>9/21/89</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>138</u> This Water Well Record was completed on (mo/day/yr) <u>9-29-89</u> under the business name of <u>Peterson Irrigation, Inc.</u> by (signature) <u>Mike Peterson</u>
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GMD2 had a research grant from KDHE for groundwater remediation. The well was used to pump oil field brine contaminated groundwater from the aquifer in the Hollow-Nikkel oil field.

The use category that best fits would be 'Recovery Environmental Remediation'.

The well construction record and the plugging record are for the same well.

Replace the Sandstone interval from 201' to 202' with 'sandy clay' and the interval from 224' to 226' with Shale.

<b>Lithologic Log ( [REDACTED] 1/18/2012)</b> (log data not edited or checked by the KGS.)		
	<b>From: 0 ft. to 34 ft.</b>	<b>Type: CLAY</b>
	<b>From: 34 ft. to 37 ft.</b>	<b>Type: FINE SAND</b>
	<b>From: 37 ft. to 42 ft.</b>	<b>Type: SANDY CLAY</b>
	<b>From: 42 ft. to 105 ft.</b>	<b>Type: SAND</b>
	<b>From: 105 ft. to 107 ft.</b>	<b>Type: CLAY</b>
	<b>From: 107 ft. to 135 ft.</b>	<b>Type: SANDY CLAY</b>
	<b>From: 135 ft. to 138 ft.</b>	<b>Type: CLAY</b>
	<b>From: 138 ft. to 147 ft.</b>	<b>Type: SAND</b>
	<b>From: 147 ft. to 155 ft.</b>	<b>Type: SANDY CLAY</b>
	<b>From: 155 ft. to 201 ft.</b>	<b>Type: SAND</b>
	<b>From: 201 ft. to 202 ft.</b>	<b>Type: [REDACTED]</b>
	<b>From: 202 ft. to 205 ft.</b>	<b>Type: CLAY</b>
	<b>From: 205 ft. to 219 ft.</b>	<b>Type: SAND</b>
	<b>From: 219 ft. to 221 ft.</b>	<b>Type: CLAY</b>
	<b>From: 221 ft. to 224 ft.</b>	<b>Type: SAND</b>
	<b>From: 224 ft. to 226 ft.</b>	<b>Type: [REDACTED]</b>

Mike Dealy, L.G., (prior Manager Equus Beds GMD2)  
 Manager Wichita Operations  
 Kansas Geological Survey  
 Wichita, Kansas 67209