County: Hodgeman Fraction SE SE SE Sec. 20 T 23 S R 22 E(W)

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

(to rectify lacking or incorrect information)

Owner: Tug Hill Operating, LLC

Location was listed as:	**Location changed to:**
Section-Township-Range: 20-23S-22W	20-23S-22W
Fraction (¼ ¼ ¼): None Given	SE SE SE

Other changes: Initial statements: Written description on form is for a different well several miles NW done by same driller about the same time.

Changed to: From Jetmore: 7 mi. E. on Hwy 156, 5.5 mi. S. on NE 225 Rd, 2 mi. E. on SE H Rd, 1 mi. N. on SE 227 Rd., 1 mi. W. on SE I Rd., NW into.

Comments:

Verification method: Legal description, location of associated oil well listed in KGS database, and mapping tool on KGS website.

initials: DRL date: 12/10/2013

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.

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No. _____

1 LOCATION OF WATER WELL: County: HODGEMAN,COUNTY | Fraction: ¼ ¼ ¼ ¼ | Section Number: 20 | Township No.: T 23 S | Range Number: R 22 ☐E ☑W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
JETMORE,KS E ON HWY 156, 3 MILES N ON RD 221, 4 MILES E ON RD Q 3/4 MILE, LOC ON SIDE

2 WATER WELL OWNER: RR#, Street Address, Box #: TUG HILL OPER LLC 126 S MAIN ST
City, State, ZIP Code : PRATT KS 67124

Global Positioning System (GPS) information:
Latitude: ..... (in decimal degrees)
Longitude: ..... (in decimal degrees)
Elevation: .....
Datum: ☐ WGS 84, ☐ NAD 83, ☐ NAD 27
Collection Method:
☐ GPS unit (Make/Model: .....)
☐ 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:

N / W / E / S; NW, NE, SW, SE; |---------1 mile---------|

4 DEPTH OF COMPLETED WELL 300 ft.
Depth(s) Groundwater Encountered (1) 42 ft. (2) ..... ft. (3) ..... ft.
WELL'S STATIC WATER LEVEL 42 ft. below land surface measured on mo/day/yr. 10-23-12
Pump test data: Well water was 283 ft. after 1 hours pumping 12 gpm
EST. YIELD 12 gpm. Well water was ..... ft. after ..... hours pumping ..... gpm
Bore Hole Diameter 10 3/4 in. to 300 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 6 in. to 300 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 24 in., Weight 4.074 lbs./ft., Wall thickness or gauge No. SDR 21-316
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 100 ft. to 180 ft., From ..... ft. to ..... ft.
From 280 ft. to 300 ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 50 ft. to 300 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 1 ft. to 25 ft., From ..... 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
0	2	SURFACE			
2	16	CALICHE			
16	46	TAN CLAY			
46	77	BLUE CLAY			
77	107	GRAY CLAY			
107	122	CLAY,GRAVEL/SAND			
122	138	SAND			
138	154	CLAY			
154	159	SAND			
159	300	RED CLAY			

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) 10-23-12 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 430 This Water Well Record was completed on (mo/day/year) .....
under the business name of HowardDing Co Box 806 Beaver Ok 73932 by (signature) Phil Howard

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 785-296-5524. 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