

Bureau of Water  
Geology Section  
1000 SW Jackson St, Ste 420  
Topeka, KS 66612-1367



Phone: 785-296-3565  
Fax: 785-296-5509  
rharper@kdheks.gov  
www.kdheks.gov/geo

Robert Moser, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

July 13, 2012

ROSENCRANTZ-BEMIS  
PO BOX 713  
GREAT BEND, KS 67530

Re: Appropriation of Water, Application Number 20120055 00

Dear Sir/Madam:

The Division of Water Resources, Kansas Department of Agriculture (DWR) has notified the Kansas Department of Health and Environment (KDHE) the above described Temporary Permit has been issued. The Temporary Permit originally authorized the use of groundwater to be withdrawn by means of the water supply well located as described below:

1 well located in the NC E2 NW NE of SECT 33, T18S, R10W, Rice County, Kansas.

Temporary Permits are issued for a duration of 6 months by the DWR. After the Temporary Permit expires KDHE considers the water well abandoned and Kansas Administrative Regulation (K.A.R.) 28-30-7(a) requires abandoned water wells to be plugged or caused to be plugged by the landowner. Once a water well has been plugged, K.A.R. 28-30-4 requires a plugging report (Form WWC-5 or WWC-5 AP@) to be completed and returned to KDHE.

Please answer the following question concerning the water well. Sign on the signature line and return this letter to: KDHE, Attn: Geology Section, Bureau of Water, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367 within two weeks from the date of this letter. If this form is not returned within two weeks, this may result in a follow-up by KDHE to determine the status of the well. If you have questions or need assistance with the form please contact Richard Harper at \_\_\_\_\_ or by e-mail at \_\_\_\_\_.

Sincerely,

Richard Harper, LG  
Water Well Unit Chief  
Geology Section/Bureau of Water

cc: KDHE  
NCDO  
Rice 09

RECEIVED

JUL 25 2012

BUREAU OF WATER

**WATER WELL RECORD**

**Form WWC-5**

Division of Water Resources App. No.

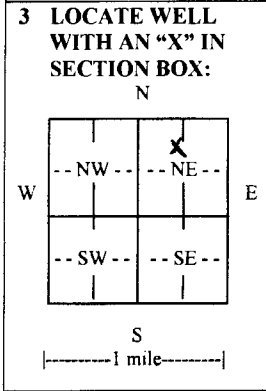
20120055

<b>1 LOCATION OF WATER WELL:</b> County: Rice	Fraction C ¼ E2 ¼ NW ¼ NE ¼	Section Number 33	Township No. T 18 S	Range Number R 10 <input type="checkbox"/> E <input checked="" 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 .  
4 1/4 South, 2 West of Bushton

**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

**2 WATER WELL OWNER:** Vahalla Exploration  
 RR#, Street Address, Box #: 133 N. Glendale  
 City, State, ZIP Code : Wichita, Ks. 67208



**4 DEPTH OF COMPLETED WELL** 135 ..... ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.  
 WELL'S STATIC WATER LEVEL 20 .....ft. below land surface measured on mo/day/yr. 1-28-12.....  
 Pump test data: Well water was .....ft. after ..... hours pumping ..... gpm  
 EST. YIELD N/A .....gpm. Well water was .....ft. after ..... hours pumping ..... gpm  
 Bore Hole Diameter 10 .....in. to 135 .....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 .5 ..... in. to 135 ..... ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.  
 Casing height above land surface 18 ..... in., Weight SDR-26 .....lbs./ft., Wall thickness or gauge No. ....  
**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 135 ..... ft. to 95 ..... ft., From ..... ft. to ..... ft.  
 From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
**GRAVEL PACK INTERVALS:** From 135 ..... ft. to 20 ..... 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 ..... ft. to ..... ft., From 20 ..... ft. to 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  
 None .....  
 Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	3	Top soil			
3	90	Tan clay			
90	129	Sandstone			
129	135	Dark gray shale with streaks of very hard shale			

**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) 1-28-12 ..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 134 ..... This Water Well Record was completed on (mo/day/year) 2-12-12 ..... under the business name of Rosencrantz-Bemis ..... by (signature) *[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 785-296-5524. 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>

**ASSIGNMENT OF WATER WELL TO LANDOWNER**

PERMIT NO.- 20120055

This agreement between Valhalla Exploration, LLC  
(Operator name and address)

and Cross Reach Farms 655 3rd Road Ellinwood, 67526  
(Landowner name and address)

certifies that said Landowner hereby accepts the water well drilled as a temporary source of water for an oil well drilled for Operator located approximately 660 F/L 1700 F/L in Section 33 Township 18 Range 10 of Rice, County County, Kansas. Landowner hereby agrees that said water well will be for domestic use only and when no longer needed, agrees to plug the water well in accordance with the State Regulation KAR 28-30-7.

Signed this 20<sup>th</sup> day of July, 2012

OPERATOR:  
Valhalla Exploration

By: [Signature]  
Agent

LANDOWNER:  
[Signature]

Michel Ringrow  
Signature