

Revised

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

| 1 LOCATION OF WATER WELL: | | Fraction SW 1/4 SE 1/4 NW 1/4 SW 1/4 | Section Number 27 | Township No. T 3 S | Range Number R 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|---|----------------------|-----------------------|---|---|----|----------------|------|----|--|---|---|--|----|------|-----------------------------|---|---|----------------------------|------|----|---------------------|---|----|----------------------------------|--|--|--|----|----|---|--|--|--|
| County: Doniphan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here <input type="checkbox"/> . Fastgas N Snax 2214 US Highway 36 66090 <i>Wathams, KS 66090</i> | | Global Positioning System (GPS) information: Latitude: 39.752058 <i>92.0</i> (in decimal degrees) Longitude: 94.942636 <i>359</i> (in decimal degrees) Elevation: <i>827.16</i> Datum: <input checked="" type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27 Collection Method: <input type="checkbox"/> GPS unit (Make/Model: _____) <input checked="" type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input checked="" type="checkbox"/> Land Survey Est. Accuracy: <input checked="" type="checkbox"/> <3 m, <input type="checkbox"/> 3-5 m, <input type="checkbox"/> 5-15 m, <input type="checkbox"/> >15 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 WATER WELL OWNER: St. Joe Petroleum Co. RR#, Street Address, Box #: PO Box 3067 City, State, ZIP Code : St. Joseph, MO 64503 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 LOCATE WELL WITH AN "X" IN SECTION BOX: <div style="text-align: center;">N</div> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">NW</td> <td style="padding: 5px;">NE</td> </tr> <tr> <td style="padding: 5px; text-align: center;">X SW</td> <td style="padding: 5px;">SE</td> </tr> </table> <div style="text-align: center;">S</div> <div style="text-align: center;">1 mile</div> | | NW | NE | X SW | SE | 4 DEPTH OF COMPLETED WELL 20 ft. Depth(s) Groundwater Encountered (1) <i>14</i> ft. (2) <i>N/A</i> ft. (3) <i>N/A</i> ft. WELL'S STATIC WATER LEVEL <i>15.86</i> ft. below land surface measured on mo/day/yr <i>11/21/12</i> Pump test data: Well water was <i>N/A</i> ft. after <i>N/A</i> hours pumping <i>N/A</i> gpm EST. YIELD <i>N/A</i> gpm. Well water was <i>N/A</i> ft. after <i>N/A</i> hours pumping <i>N/A</i> gpm Bore Hole Diameter <i>8.25</i> in. to <i>20</i> ft., and <i>N/A</i> in. to <i>N/A</i> ft. WELL WATER TO BE USED AS: <input type="checkbox"/> Public water supply <input type="checkbox"/> Geothermal <input type="checkbox"/> Injection well <input type="checkbox"/> Domestic <input type="checkbox"/> Feedlot <input type="checkbox"/> Oil field water supply <input type="checkbox"/> Dewatering <input type="checkbox"/> Other (Specify below) <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Domestic-lawn & garden <input checked="" type="checkbox"/> Monitoring well <i>MW-13</i> Was a chemical/bacteriological sample submitted to Department? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, mo/day/yr sample was submitted <i>N/A</i> Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NW | NE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X SW | SE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 TYPE OF CASING USED: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other _____ CASING JOINTS: <input type="checkbox"/> Glued <input type="checkbox"/> Clamped <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded Casing diameter <i>2</i> in. to <i>20</i> ft., Diameter <i>N/A</i> in. to <i>N/A</i> ft., Diameter <i>N/A</i> in. to <i>N/A</i> ft. Casing height above land surface <i>0</i> in., Weight <i>N/A</i> lbs./ft., Wall thickness or gauge No. <i>Schedule 40</i> TYPE OF SCREEN OR PERFORATION MATERIAL: <input type="checkbox"/> Steel <input type="checkbox"/> Stainless Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Brass <input type="checkbox"/> Galvanized Steel <input type="checkbox"/> None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: <input type="checkbox"/> Continuous slot <input checked="" type="checkbox"/> Mill slot <input type="checkbox"/> Gauze wrapped <input type="checkbox"/> Torch cut <input type="checkbox"/> Drilled holes <input type="checkbox"/> None (open hole) <input type="checkbox"/> Louvered shutter <input type="checkbox"/> Key punched <input type="checkbox"/> Wire wrapped <input type="checkbox"/> Saw cut <input type="checkbox"/> Other (specify) _____ SCREEN-PERFORATED INTERVALS: From <i>10</i> ft. to <i>20</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft. From <i>N/A</i> ft. to <i>N/A</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft. GRAVEL PACK INTERVALS: From <i>8</i> ft. to <i>20</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft. From <i>N/A</i> ft. to <i>N/A</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 GROUT MATERIAL: <input type="checkbox"/> Neat cement <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ Grout Intervals: From <i>2</i> ft. to <i>8</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft., From <i>N/A</i> ft. to <i>N/A</i> ft. What is the nearest source of possible contamination: <input type="checkbox"/> Septic tank <input type="checkbox"/> Lateral lines <input type="checkbox"/> Pit privy <input type="checkbox"/> Livestock pens <input type="checkbox"/> Insecticide storage <input type="checkbox"/> Other (specify below) <input type="checkbox"/> Sewer lines <input type="checkbox"/> Cesspool <input type="checkbox"/> Sewage lagoon <input checked="" type="checkbox"/> Fuel storage <input type="checkbox"/> Abandoned water well <input type="checkbox"/> Watertight sewer lines <input type="checkbox"/> Seepage pit <input type="checkbox"/> Feedyard <input type="checkbox"/> Fertilizer storage <input type="checkbox"/> Oil well/gas well Direction from well <i>South</i> Distance from well <i><10 feet</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">FROM</th> <th style="width: 10%;">TO</th> <th style="width: 40%;">LITHOLOGIC LOG</th> <th style="width: 10%;">FROM</th> <th style="width: 10%;">TO</th> <th style="width: 20%;">LITHO. LOG (cont.) or PLUGGING INTERVALS</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>5</td> <td>brown, dry silty/sandy clay w/ gravel (fill)</td> <td>15</td> <td>16.5</td> <td>gray red brown mottled clay</td> </tr> <tr> <td>5</td> <td>9</td> <td>gray-brown damp sandy clay</td> <td>16.5</td> <td>20</td> <td>wet gray sandy clay</td> </tr> <tr> <td>9</td> <td>10</td> <td>brown damp fine-med grained sand</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>15</td> <td>brown damp fine-medium grained sand saturated</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | FROM | TO | LITHOLOGIC LOG | FROM | TO | LITHO. LOG (cont.) or PLUGGING INTERVALS | 0 | 5 | brown, dry silty/sandy clay w/ gravel (fill) | 15 | 16.5 | gray red brown mottled clay | 5 | 9 | gray-brown damp sandy clay | 16.5 | 20 | wet gray sandy clay | 9 | 10 | brown damp fine-med grained sand | | | | 10 | 15 | brown damp fine-medium grained sand saturated | | | |
| FROM | TO | LITHOLOGIC LOG | FROM | TO | LITHO. LOG (cont.) or PLUGGING INTERVALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | brown, dry silty/sandy clay w/ gravel (fill) | 15 | 16.5 | gray red brown mottled clay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 9 | gray-brown damp sandy clay | 16.5 | 20 | wet gray sandy clay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 10 | brown damp fine-med grained sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 15 | brown damp fine-medium grained sand saturated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <input checked="" type="checkbox"/> constructed, <input type="checkbox"/> reconstructed, or <input type="checkbox"/> plugged under my jurisdiction and was completed on (mo/day/year) <i>11/21/2012</i> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <i>759</i> This Water Well Record was completed on (mo/day/year) <i>12/2/2012</i> under the business name of <i>RAZEK Environmental, LLC</i> by (signature) <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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. I include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.

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



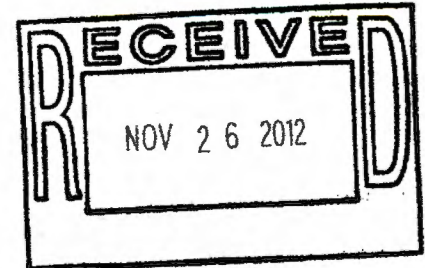
Phone: 785-296-3565
Fax: 785-296-5509
rharper@kdheks.gov
www.kdheks.gov/geo

Robert Moser, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

November 19, 2012



Williams & Company Consulting, Inc.
Katie Williams
9237 Ward Parkway
Suite 220
Kansas City, MO 64114

Re: Waiver request for flush mount monitoring wells for the **Fastgas N Snax, E. Hwy 36, Wathena, Kansas**. Located in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 27, Township 3 South, Range 22 East, Doniphan County, Kansas.

Dear Ms. Williams:

In accordance with Kansas Administrative Regulations (K.A.R.) 28-30-9, appealing regulations as stated in Article 30, your request for an exception to **K.A.R. 28-30-6(b)(1) & (e)** for authorization of 5 monitoring well to be constructed less than 12 inches above the **finished ground level**, at the above-mentioned site is hereby granted subject to the following stipulations:

1. Monitoring wells included in this request will be grouted from a maximum of two feet below ground surface to within one foot above the screened section.
2. The wellhead will be encased in an approved water resistant/proof manhole. The manhole will be encased in cement, which is to be domed or sloped to allow drainage away from the manhole, (refer to the attached diagram page 2).
3. The casing of the monitoring well will be sealed with an approved watertight lockable monitoring well caps (refer to the attached diagram).
4. A copy of this KDHE letter, approving your request for waiver of **K.A.R. 28-30-6(b)(1) & (e)**, will be sent to KDHE attached to the water well record (WWC-5 Form) of the first well drilled under the granted waiver.

If you have any questions, please do not hesitate in giving us a call.

Sincerely,



Tim Sloan, L.S.
SMH CONSULTANTS