WATER WELL RECORD — Form WWC-5

Division of Water Resources App. No. _____

1 LOCATION OF WATER WELL: County: Doniphan | Fraction: SW ¼ SE ¼ NW ¼ SW ¼ | Section Number: 27 | Township No.: T 3 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 ☐.

Fastgas N Snax
East Highway 36, Wathena, KS 66090

Global Positioning System (GPS) information:
Latitude: N39.75891 (in decimal degrees)
Longitude: W94.94253 (in decimal degrees)
Elevation: .....
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin Nuvi 760)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☑ <3 m, ☐ 3-5 m, ☐ 5-15 m, ☐ >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:

N
W | NW | NE | E
| SW (X) | SE
S
|---1 mile---|

4 DEPTH OF COMPLETED WELL 20 ft.
Depth(s) Groundwater Encountered (1) 12 ft. (2) N/A ft. (3) N/A ft.
WELL'S STATIC WATER LEVEL 12 ft. below land surface measured on mo/day/yr 3/12/12
Pump test data: Well water was N/A ft. after N/A hours pumping N/A gpm
EST. YIELD N/A gpm. Well water was N/A ft. after N/A hours pumping N/A gpm
Bore Hole Diameter 8.25 in. to 20 ft., and N/A in. to N/A 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 MW-7
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted N/A
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2 in. to 10 ft., Diameter N/A in. to N/A ft., Diameter N/A in. to N/A ft.
Casing height above land surface 0 in., Weight N/A lbs./ft., Wall thickness or gauge No. Schedule 40
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 10 ft. to 20 ft., From N/A ft. to N/A ft.
From N/A ft. to N/A ft., From N/A ft. to N/A ft.
GRAVEL PACK INTERVALS: From 8 ft. to 20 ft., From N/A ft. to N/A ft.
From N/A ft. to N/A ft., From N/A ft. to N/A ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☑ Other Concrete from 0 to 2-feet
Grout Intervals: From 2 ft. to 8 ft., From N/A ft. to N/A ft., From N/A ft. to N/A 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 Northeast Distance from well 10 feet

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Grass			
0.5	2.5	Dk brn sand w/gravel moist			
2.5	5.0	Lt tan sandy high plast clay w/			
		gravel damp			
5.0	6.5	Med brn high plast clay damp			
6.5	9.5	Lt grayish brn high plast clay			
9.5	13.0	Lt brn fine to med grained sand			
		moist			
13.0	20.0	Grayish brown high plast clay wet			

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) 3-12-12 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 759 This Water Well Record was completed on (mo/day/year) 4-3-12 under the business name of RAZEK Environmental, LLC 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.

Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

KSA 82a-1212

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

Kansas

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

RECEIVED
NOV 26 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 ¼ of the SE ¼ of the NW ¼ of the SW ¼ 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