

Kansas Department of Agriculture
Division of Water Resources
PERMIT OF NEW APPLICATION WORKSHEET

1. File Number: <p style="text-align: center; font-size: 1.2em;">49,866</p>	2. Status Change Date: <p style="text-align: center; font-size: 1.2em;">9/15/2017</p>	3. Field Office: <p style="text-align: center; font-size: 1.2em;">1</p>	4. GMD: <p style="text-align: center; font-size: 1.2em;">0</p>
5. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return			
6. Enclosures: <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N of C Form <input type="checkbox"/> Water Tube <input type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> Meter			
<p>7a. Applicant(s) Person ID <u>64465</u> New to system <input type="checkbox"/> Add Seq# _____</p> <p>J-SIX ENTERPRISES LLC JENNIFER GERETY PO BOX 170 604 NEMAHA ST SENECA KS 66538</p>	<p>7c. Landowner(s) Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p>		
<p>7b. Landowner(s) Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p> <p>7a.</p>	<p>7d. Misc. Person ID _____ New to system <input type="checkbox"/> Add Seq# _____</p>		
<p>8. WUR Correspondent Person ID _____ New to system <input type="checkbox"/> Add Seq# _____ Overlap File (s) WUC Notarized WUC Form <input type="checkbox"/> Agree <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>7a.</p>	<p>9. Use of Water: Changing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water</p> <p><input type="checkbox"/> IRR <input type="checkbox"/> REC <input type="checkbox"/> DEW <input type="checkbox"/> MUN</p> <p><input checked="" type="checkbox"/> STK <input type="checkbox"/> SED <input type="checkbox"/> DOM <input type="checkbox"/> CON</p> <p><input type="checkbox"/> HYD DRG <input type="checkbox"/> WTR PWR <input type="checkbox"/> ART RECHRG</p> <p><input type="checkbox"/> IND SIC: _____ <input type="checkbox"/> OTHER: _____</p>		
10. Completion Date: <u>12/31/2018</u> 11. Perfection Date: <u>12/31/2022</u> 12. Exp Date: _____			
13. Conservation Plan Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date Required: _____ Date Approved: _____ Date to Comply: _____			
14. Water Level Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date to Comply: _____ Date WLMD Installed: _____			
<p>Date Prepared: 8/17/2017 By: DWS Date Entered: 9/18/2017 By: UM</p>			

340 - confined Dakota → please change senior file 46859

File No. **49,866** 15. Formation Code: ~~390~~ Drainage Basin: **REPUBLICAN RIVER** County: WS Special Use: Stream:

16. Points of Diversion										17. Rate and Quantity					
MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Authorized		Additional		
											Rate gpm	Quantity mgy	Rate gpm	Quantity mgy	Overlap PD Files
MOD			74777	SW SW NW	23	4S	1E	1	3040	5251	99	7.56	99	7.56	46,859
✓															

18. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

19. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

20. Meter Required? Yes No To be installed by **12/31/2018** Date Acceptable Meter Installed _____

21. Place of Use							NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg? NO	Overlap Files		
MOD	DEL	ENT	PUSE	S	T	R	ID	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼					
✓			58990	23	4	1E	1	SWINE FACILITY (SW NW)																	7a	NO	46,859	

Comments:

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources
M E M O R A N D U M

TO: Files

DATE: August 17, 2017

FROM: Doug Schemm

RE: Application, File No. 49,866

J-Six Enterprises LLC has filed the referenced application to appropriate 7.56 million gallons (23.2 acre-feet) of groundwater from a single well, at a rate of diversion of 99 gallons per minute for stockwatering use at a swine facility located in the Northwest Quarter of Section 23, in Township 4 South, Range 1 East, Washington County. This is within the drainage basin of the Republican River. The proposed place of use is wholly owned by the applicant, and the application form has been signed by a representative of the applicant (Jennifer Gerety), stating they have access to the point of diversion. Water Right, File No. 46,859 overlaps in point of diversion and place of use. The additional quantity of water requested under the new application will prevent the applicant from exceeding their authorized quantity of water.

A review of the senior file well log, and area well logs indicate that the source of water is the **confined** Dakota aquifer system. Please note that the senior file was processed as sourcing the unconfined Dakota aquifer system based on the regulatory definition of this aquifer when the application was assigned a priority (September 12, 2007). No specific safe yield evaluation has been adopted by the chief engineer for the confined Dakota aquifer system, although it is likely that the confined Dakota aquifer system would receive significantly less recharge than a near-surface, unconfined aquifer. Therefore, in order to better represent the potential recharge to this confined aquifer, it was determined that the saturated thickness of the aquifer and the thickness of the confining unit are critical factors. Limited saturated thickness with a significant confining unit would get less recharge (0.3 times the "standard" K.A.R. 5-3-11 value), while significant saturated thickness with a limited confining unit would get more recharge (0.5 times the "standard" K.A.R. 5-3-11 value). For this application, the saturated thickness is less than the confining unit thickness, which results in a factor of less than 1. A factor less than 1 gets 0.3 times the "normal" recharge. The K.A.R. 5-3-11 safe yield recharge value was determined to be 2.6 inches. Multiplying 2.6 inches x 0.3 results in a recharge of 0.78 inches. This application is located near the boundary of the unconfined/confined Dakota aquifer system, with the eastern portion of the circle sourcing the unconfined Dakota aquifer system (see safe yield map). The area of consideration was determined to be 4,430 acres. Therefore, 4,430 acres x 0.78 inches x 100% recharge available / 12 provides a safe yield of 287.95 acre-feet. Existing appropriations total 254.44 acre-feet, leaving 33.51 acre-feet of water available, and there is water available for this pending application requesting 23.2 acre-feet, and safe yield criteria have been met.

The requested quantity of water of 7.56 million gallons was based on providing an adequate supply of water for 2,490 head of hogs. The applicant provided an estimate for drinking water, as follows: 2,490 head of hogs x 5 gallons per head per day x 365 days = 4.54 million gallons. The additional 3.02 million gallons is for barn cleaning, flushing, and cooling. The requested quantity of water and rate of diversion appear to be reasonable for the intended use, with no proposed limitations. File No. 46,859 was recently certified for only 0.495 million gallons at a diversion rate of 14 gallons per minute. This new application essentially allows the applicant to "make-up" what was not perfected under the senior file.

The applicant did not identify any wells of any kind within one-half mile of the proposed point of diversion for this groundwater file. The nearest permitted well is over 4,700 feet away, and it is sourcing the unconfined Dakota aquifer system. The nearest permitted well sourcing the confined Dakota aquifer system is over 5,700 feet away. Per K.A.R. 5-4-4, wells sourcing the confined Dakota aquifer system are to meet 4 mile spacing between wells. However, the definition notes they must have a "common source of supply". For some of these wells, there is insufficient information to determine if they are in the same, common aquifer. With the proposed low pumping rate, and relatively low quantity of water, it appears that a spacing of over a mile should be adequate to prevent direct impairment to the nearest water right. Therefore, per K.A.R. 5-4-4, the required minimum well spacing criteria to non-domestic wells of 4 miles, is not necessary to prevent direct impairment in this specific instance, and the proposed well spacing is sufficient to prevent direct impairment and to protect the public interest.

In accordance with K.S.A. 82a-706c, the Chief Engineer retains full authority to require any water user to install meters, gages, or other measuring devices, which devices he or she or his or her agents may read at any time. Water flowmeter requirements are further described in K.A.R. 5-1-4 through K.A.R. 5-1-12. If any chemical or foreign substance is injected into the water pumped under this permit, a check valve will also need to be installed.

In an August 16, 2017 discussion, Katie Tietsort, Water Commissioner, Topeka Field Office, recommended approval of the referenced application. Based on the above discussion, well spacing and safe yield criteria are met, approval gives the applicant adequate water for this facility, and approval of the application will not impair senior water rights nor prejudicially or unreasonably affect the public interest, it is recommended that the referenced application be approved.

Douglas W. Schemm
Environmental Scientist
Topeka Field Office

1320 Research Park Drive
Manhattan, Kansas 66502
(785) 564-6700



900 SW Jackson, Room 456
Topeka, Kansas 66612
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

September 19, 2017

FILE COPY

J-SIX ENTERPRISES LLC
% JENNIFER GERETY
PO BOX 170 604 NEMAHA ST
SENECA KS 66538

RE: Appropriation of Water, File No. 49,866

Dear Ms. Gerety:

There is enclosed a permit to appropriate water authorizing you to proceed with construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a), to divert such unappropriated water as may be available from the source and at the location specified in the permit, and to use it for the purpose and at the location described in the permit.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approval documents. A water meter is required on the proposed diversion works and you must install it prior to water being put to beneficial use in order for you to maintain accurate records of water use. The meter should be used to provide the information required on the annual water use report.

Failure to notify the Chief Engineer of the Division of Water Resources of the completion of the diversion works within the time allowed, or within any authorized extension of time thereof, will result in the dismissal of this permit. Enclosed is a form which may be used to notify the Chief Engineer that the proposed diversion works have been completed.

All requests for extensions of time to complete diversion works, or to perfect appropriations, must be submitted to the Chief Engineer before the expiration of time originally set forth in the permit to complete diversion works or to perfect an appropriation. If for any reason, you require an extension of time, you must request it before the expiration of time set forth in this permit. Failure to comply with this regulation will result in the dismissal of your permit or your water right. Any request for an extension of time shall be accompanied by the required statutory fee, which is currently \$100.00.

There is also enclosed an information sheet setting forth the procedure to obtain a Certificate of Appropriation which will establish the extent of your water right. If you have any questions, please contact our office. If you wish to discuss this specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Kristen A. Baum
New Application Unit Supervisor
Water Appropriation Program

KAB:dws

Enclosures

pc: Topeka Field Office



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION
and
PERMIT TO PROCEED**

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application, **File No. 49,866** of the applicant

**J-SIX ENTERPRISES LLC
JENNIFER GERETY
PO BOX 170 604 NEMAHA ST
SENECA KS 66538**

for a permit to appropriate water for beneficial use, together with the maps, plans and other submitted data, and that the application is hereby approved and the applicant is hereby authorized, subject to vested rights and prior appropriations, to proceed with the construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a, as amended), and to proceed with all steps necessary for the application of the water to the approved and proposed beneficial use and otherwise perfect the proposed appropriation subject to the following terms, conditions and limitations:

1. That the priority date assigned to such application is **July 3, 2017**.
2. That the water sought to be appropriated shall be used for stockwatering use at a swine facility located in the Southwest Quarter of the Northwest Quarter (SW $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 23, in Township 4 South, Range 1 East, Washington County, Kansas.
3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of one (1) well located in the Southwest Quarter of the Southwest Quarter of the Northwest Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 23, more particularly described as being near a point 3,040 feet North and 5,251 feet West of the Southeast corner of said section, in Township 4 South, Range 1 East, Washington County, Kansas, located substantially as shown on the topographic map accompanying the application.
4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **99 gallons per minute (0.22 c.f.s.)** and to a quantity not to exceed **7.56 million gallons** (23.2 acre-feet) of water for any calendar year.
5. That installation of works for diversion of water shall be completed on or before **December 31, 2018** or within any authorized extension thereof. The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works has been completed. Failure to timely submit the notice and the fee will result in revocation of the permit. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.
6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before **December 31, 2022** or any authorized extension thereof. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.

7. That the applicant shall not be deemed to have acquired a water appropriation for a quantity in excess of the amount approved herein nor in excess of the amount found by the Chief Engineer to have been actually used for the approved purpose during one calendar year subsequent to approval of the application and within the time specified for perfection or any authorized extension thereof.

8. That the use of water herein authorized shall not be made so as to impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.

9. That the right of the appropriator shall relate to a specific quantity of water and such right must allow for a reasonable raising or lowering of the static water level and for the reasonable increase or decrease of the streamflow at the appropriator's point of diversion.

10. That this permit does not constitute authority under K.S.A. 82a-301 through 305a to construct any dam or other obstruction; nor does it grant any right-of-way, or authorize entry upon or injury to, public or private property.

11. That all diversion works constructed under the authority of this permit into which any type of chemical or other foreign substance will be injected into the water pumped from the diversion works shall be equipped with an in-line, automatic quick-closing, check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.

12. That all wells with a diversion rate of 100 gallons per minute or more drilled under the authority of this permit shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by, the Chief Engineer. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.

13. That an acceptable water flow meter shall be installed and maintained on the diversion works authorized by this permit in accordance with Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. This water flow meter shall be used to provide an accurate quantity of water diverted as required for the annual water use report (including the meter reading at the beginning and end of the report year).

14. That the applicant shall maintain accurate and complete records from which the quantity of water diverted during each calendar year may be readily determined and the applicant shall file an annual water use report with the Chief Engineer by March 1 following the end of each calendar year. Failure to file the annual water use report by the due date shall cause the applicant to be subject to a civil penalty.

15. That no water user shall engage in nor allow the waste of any water diverted under the authority of this permit.

16. That failure without cause to comply with provisions of the permit and its terms, conditions and limitations will result in the forfeiture of the priority date, revocation of the permit and dismissal of the application.

17. That the right to appropriate water under authority of this permit is subject to any minimum desirable streamflow requirements identified and established pursuant to K.S.A. 82a-703c for the source of supply to which this water right applies.

RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW

If you are aggrieved by this Order, then pursuant to K.S.A. 82a-1901, you may:

- 1) request an evidentiary hearing before the Chief Engineer, or
- 2) request administrative review by the Secretary of Agriculture.

Failure to request an evidentiary hearing before the Chief Engineer does not preclude your right to administrative review by the Secretary.

To obtain an evidentiary hearing before the Chief Engineer, a written request for hearing must be filed within 15 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 18 days after this Order was mailed to you**), with: Kansas Department of Agriculture, Attn: Legal Section, 1320 Research Park Drive, Manhattan, Kansas 66502, FAX (785) 564-6777.

If you do not file a request for an evidentiary hearing before the Chief Engineer, you may petition for administrative review of the Order by the Secretary of Agriculture. A petition for review shall be in writing and state the basis for requesting administrative review. The request for hearing may be denied if the request fails to clearly establish factual or legal issues for review. See K.S.A. 77-527. The petition must be filed within 30 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 33 days after this Order was mailed to you**), and be filed with: Secretary of Agriculture, Attn: Legal Division, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502, FAX (785) 564-6777.

If neither a request for an evidentiary hearing nor a petition for administrative review is filed as set forth above, then this Order shall be effective and become a final agency action as defined in K.S.A. 77-607(b). Failure to timely request either an evidentiary hearing or administrative review may preclude further judicial review under the Kansas Judicial Review Act.

Ordered this 15th day of September, 2017, in Topeka, Shawnee County, Kansas.

Lane P. Letourneau

Lane P. Letourneau, P.G.
Program Manager
Water Appropriation Program
Division of Water Resources
Kansas Department of Agriculture

State of Kansas)
) SS
County of Riley)

The foregoing instrument was acknowledged before me this 15th day of September, 2017, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Danielle Wilson

Notary Public

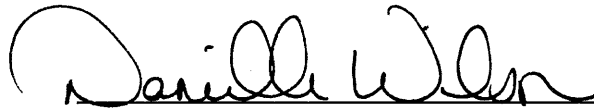
CERTIFICATE OF SERVICE

On this 19th day of September, 2017, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,866, dated September 15, 2017 was mailed postage prepaid, first class, US mail to the following:

J-SIX ENTERPRISES LLC
JENNIFER GERETY
PO BOX 170 604 NEMAHA ST
SENECA KS 66538

With photocopies to:

Topeka Field Office



Division of Water Resources

APPLICATION COMPLETE

7/3/2017

Reviewer DWS

THE



STATE

OF KANSAS

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 47,866
This item to be completed by the Division of Water Resources.

WATER RESOURCES
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**APPLICATION FOR PERMIT TO
APPROPRIATE WATER FOR BENEFICIAL USE**

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

JUL 03 2017
12:56
KS DEPT OF AGRICULTURE

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture,
1320 Research Park Drive, Manhattan, KS 66502:

1. Name of Applicant (Please Print): J-SIX ENTERPRISES LLC %JENNIFER GERETY
Address: PO BOX 170 604 NEMAHA ST
City: SENECA State KS Zip Code: 66538
Telephone Number: (785) 336-2148

2. The source of water is: surface water in _____ (stream)
OR groundwater in REPUBLICAN RIVER _____ (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is 23.2 acre-feet OR 7.56 million gallons per calendar year, to be diverted at a maximum rate of 99 gallons per minute OR _____ cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended):
(a) Artificial Recharge (b) Irrigation (c) Recreational (d) Water Power
(e) Industrial (f) Municipal (g) Stockwatering (h) Sediment Control
(i) Domestic (j) Dewatering (k) Hydraulic Dredging (l) Fire Protection
(m) Thermal Exchange (n) Contamination Remediation

YOU **MUST** COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:
F.O. 1 GMD _____ Meets K.A.R. 5-3-1 (YES/NO) Use STK Source G/S County WA By AW Date 7-3-17
Code REG Fee 200 TR# _____ Check # 018704

7/5/17 DWS

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.

- (A) One in the SW of the SW quarter of the NW quarter of Section 23, more particularly described as being near a point 3,040 feet North and 5,251 feet West of the Southeast corner of said section, in Township 4 South, Range 1 EAST, WASHINGTON County, Kansas.
- (B) One in the ___ quarter of the ___ quarter of the ___ quarter of Section ___, more particularly described as being near a point ___ feet North and ___ feet West of the Southeast corner of said section, in Township ___ South, Range ___ East/West (circle one), _____ County, Kansas.
- (C) One in the ___ quarter of the ___ quarter of the ___ quarter of Section ___, more particularly described as being near a point ___ feet North and ___ feet West of the Southeast corner of said section, in Township ___ South, Range ___ East/West (circle one), _____ County, Kansas.
- (D) One in the ___ quarter of the ___ quarter of the ___ quarter of Section ___, more particularly described as being near a point ___ feet North and ___ feet West of the Southeast corner of said section, in Township ___ South, Range ___ East/West (circle one), _____ County, Kansas.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

APPLICANT
(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:

I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.

Executed on June 29, 2017.


Applicant's Signature

7. The proposed project for diversion of water will consist of ONE WELL
(number of wells, pumps or dams, etc.)

and (was)(will be) completed (by) EXISTING
(Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be Summer 2017
(Mo/Day/Year)

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JUL 03 2017

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?

Yes No If "yes", a check valve shall be required.

All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources? Yes No

- If yes, show the Water Structures permit number here _____
- If no, explain here why a Water Structures permit is not required _____

Not building impoundment.

11. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, please show the following information:

- (a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
- (b) If the application is for groundwater, please show the location of any existing water wells of any kind within ½ mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within ½ mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines must be shown.
- (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
- (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.

12. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.

Water Right File No. 46,859 overlaps in Place of Use and Point of Diversion.

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JUL 03 2017

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: Test holes Well as completed Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	<u>9/28/2006</u>	—	—	—
Total depth of well	<u>160 feet</u>	—	—	—
Depth to water bearing formation	<u>138 feet</u>	—	—	—
Depth to static water level	<u>70.6 feet</u>	—	—	—
Depth to bottom of pump intake pipe	—	—	—	—

14. The relationship of the applicant to the proposed place where the water will be used is that of

Owner
(owner, tenant, agent or otherwise)

15. The owner(s) of the property where the water is used, if other than the applicant, is (please print):

Same
(name, address and telephone number)

(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at Seneca, Kansas, this 29 day of June, 2017.
(month) (year)


(Applicant Signature)

By
(Agent or Officer Signature)

(Agent or Officer - Please Print)

APPLICANT(S) SOCIAL SECURITY IDENTIFICATION NUMBER(S)
46-4333649
and/or
APPLICANT(S) TAXPAYER I.D. NO.(S)

Assisted by DWS TOPEKA FO Date: 6/13/2017
(office/title)

WATER RESOURCES RECEIVED

JUL 03 2017

**STOCKWATER USE
SUPPLEMENTAL SHEET**

File No. 49,866

Name of Applicant (Please Print): J-SIX ENTERPRISES LLC

1. Please indicate type of livestock (cattle, hogs, etc.) HOGS
2. Please complete the following table showing past and present water requirements:

PAST NUMBER OF HEAD AND WATER DIVERTED, IF APPLICABLE

LAST 5 YEARS	NUMBER OF HEAD	WATER DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
5 years ago			
Last year			
Present Year			

3. Please complete the following table showing estimated future water requirements:

ESTIMATED FUTURE NUMBER OF HEAD AND WATER DIVERTED

NEXT 5 YEARS	NUMBER OF HEAD	WATER TO BE DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
Year 1	2490	7.56 MILLION GALS	5 gals Drinking + Cooling & Sanitation, etc.
Year 2			
Year 3			
Year 4			
Year 5	2490	7.56 MILLION GALS	5 gals Drinking + Cooling & Sanitation, etc.

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used. Show in the space provided below the Section (S), Township (T), and Range (R), and the number of acres in each forty acre tract or fractional portion thereof.

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
23	4S	1E	SWINE FACILITY (SW NW)																

WATER RESOURCES
RECEIVED

5. Show quantities of water used and all associated water uses at the feedlot such as water used in feed mills, cooling of animals, washing, flushing of wastes, etc.:

DRINKING

2490 head of FINISHING HOGS x 5 gallons/head (avg.) x 365 days = 4.54 Million gallons
_____ head of _____ x _____ gallons/head (avg.) x _____ days = _____ gallons
_____ head of _____ x _____ gallons/head (avg.) x _____ days = _____ gallons

COOLING

20 g.p.m. x 60 min/hr x 8 hour/day x 120 days = 1.15 Million gallons

SANITATION

20 g.p.m. x 60 min/hr x 14 hr/wk x 52 wks/yr = 0.87 M gallons

OTHER USE (Explain) Dust Control, prevent waterers from freezing, etc. = 1.0 million gallons

TOTAL ----- = **7.56 MILLION (23.2 AF)** gallons

6. Show location of present and future location of confinement pens on your attached maps or photographs.

7. Total feed bunk space for cattle or livestock is _____ linear feet.

8. Total size of stock pens for confinement area of cattle, hogs, etc. is _____ square feet.

You may attach any additional information you believe will assist in informing the Division of Water Resources of the need for your request.

WATER RESOURCES
RECEIVED

JUL 03 2017

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER A 49866 00

#####

AMOUNT STATISTICS REPORT FOR POINTS OF DIVERSION UNDER A 49866 00 STK

All > 1/2 mile

Water Right and Points of Diversion Within 2.00 miles of point defined as:

3118 Feet North and 5263 Feet West of the Southeast Corner of Section 23 T 4S R 1E

GROUNDWATER ONLY

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__ 26791 00	IRR	NK	G	7912	--	SE	NE	NW	4045	2672	24	4	1E	2		76.00	76.00	AF
A__ 27654 01	STK	NK	G	4723	--	SW	SE	SE	234	1189	14	4	1E	1		16.80	16.80	AF
A__ 41533 00	IRR	NK	G	6997	--	--	NC	W2	2640	3960	27	4	1E	1		73.00	73.00	AF
A__ 43730 00	IRR	NK	G	7704	--	NE	NE	NW	4751	2990	24	4	1E	3		40.00	19.00	AF
A__ 44177 00	IRR	NK	G	9852	--	SE	NW	SE	1369	1330	13	4	1E	3		202.00	202.00	AF
A__ 44407 00	IRR	NK	G	5785	--	SW	SW	SW	160	4950	22	4	1E	1		168.00	168.00	AF
A__ 45168 00	IRR	NK	G	9852	--	SE	NW	SE	1369	1330	13	4	1E	3		335.00	133.00	AF
A__ 46859 00	STK	MM	G	0	--	SW	SW	NW	3118	5263	23	4	1E	1		13.44	13.44	AF
A__ 47673 00	IRR	KK	G	8947	--	--	NC	NW	3960	3960	13	4	1E	4		400.00	400.00	AF
A__ 48526 00	IRR	KE	G	8947	--	--	NC	NW	3960	3960	13	4	1E	4		57.00	57.00	AF
A__ 48838 00	IRR	KE	G	9960	--	--	NC	N2	3960	2640	13	4	1E	5		315.30	315.30	AF
A__ 49866 00	STK	AY	G	0	--	SW	SW	NW	3118	5263	23	4	1E	1		23.20	23.20	AF

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	23.20	.00
Total Permitted Amount (AF) =	772.30	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	13.44	.00
Total Certified Amount (AF) =	687.80	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	1496.75	.00

An * after the source of supply indicates a pending application for change under the file number.
 An * after the ID indicates a 15 AF exemption was granted under the file number.
 A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.
 The number in the Batt column is the number of wells in the battery.

Water Rights and Points of Diversion Within 2.00 miles of point defined as:

3118 Feet North and 5263 Feet West of the Southeast Corner of Section 23 T 4S R 1E

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 26791 00	IRR	NK	G
>	JOHN & BARBARA LEISZLER		
>	417 DEER RD		
>	CLIFTON KS 66937		
A__ 27654 01	STK	NK	G
>	J-SIX ENTERPRISES LLC		
>	JENNIFER GERETY		
>	PO BOX 170 604 NEMAHA ST		
>	SENECA KS 66538		

A__ 41533 00 IRR NK G
> CALDERHEAD FARMS INC
>
> 307 E 10TH ST LOT 13
> MINNEAPOLIS KS 67467

A__ 43730 00 IRR NK G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD
> CLIFTON KS 66937

A__ 44177 00 IRR NK G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD
> CLIFTON KS 66937

A__ 44407 00 IRR NK G
> WAYNE JEARDOE
>
> 1411 VALE RD
> CONCORDIA KS 66901

A__ 45168 00 IRR NK G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD
> CLIFTON KS 66937

A__ 46859 00 STK MM G
> J-SIX ENTERPRISES LLC
> JENNIFER GERETY
> PO BOX 170 604 NEMAHA ST
> SENECA KS 66538

A__ 47673 00 IRR KK G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD
> CLIFTON KS 66937

A__ 48526 00 IRR KE G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD
> CLIFTON KS 66937

A__ 48838 00 IRR KE G
> JOHN & BARBARA LEISZLER
>
> 417 DEER RD

49,866
 meets safe yield
 Confined DAKOTA
 Aquifer
 (0.3x recharge)

Analysis Results

The selected PD is in an area to new appropriations.
 The safe yield, based on the variables listed below is ~~959.83~~ AF.
 Total prior appropriation in the circle is 277.64 AF. - ~~23.2~~ = 254.44 AF
 Total quantity of water available for appropriation is ~~682.19~~ AF.

287.95 AF
 254.44 AF

33.51 AF

Safe Yield Variables

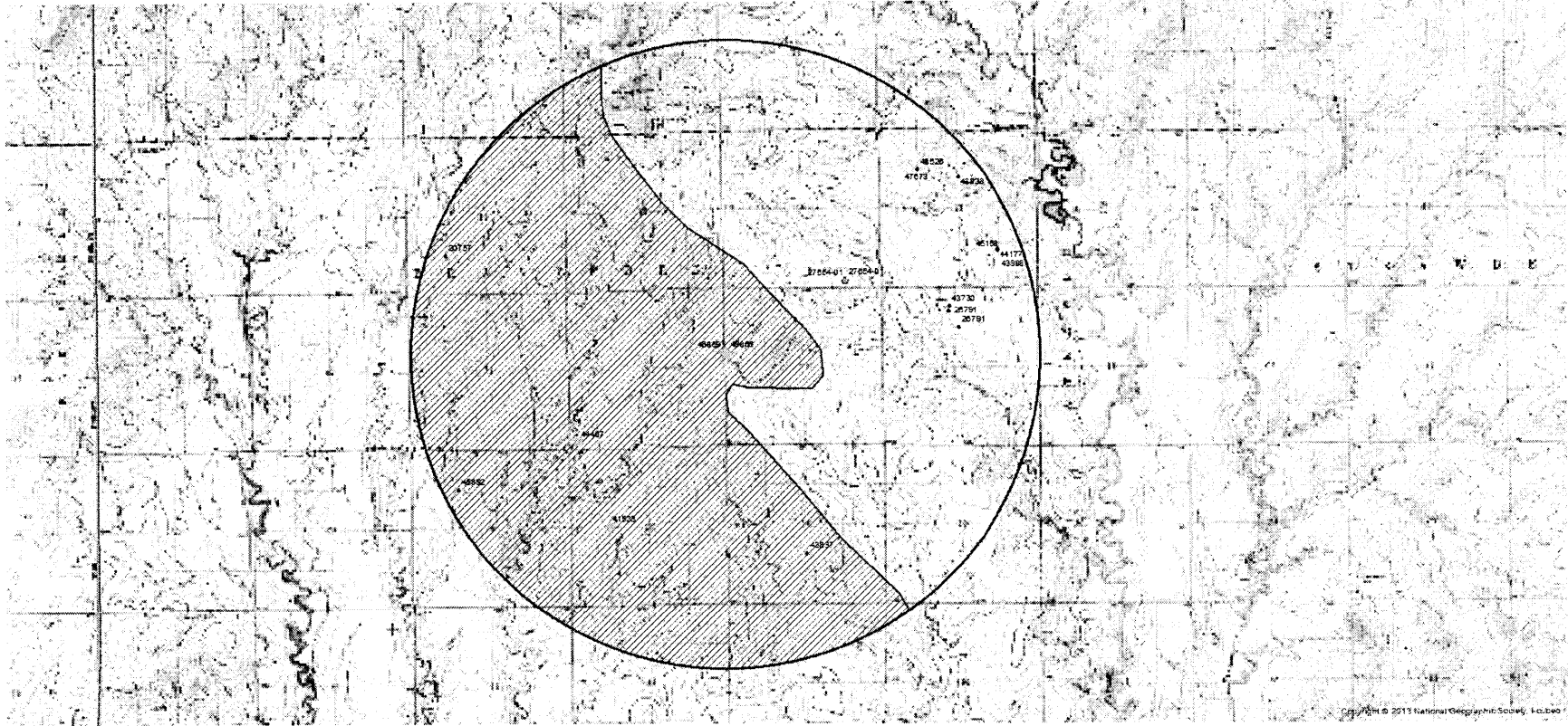
The area used for the analysis is set at 4430 acres.
 Potential annual recharge of the area is estimated to be 2.6 inches. $\times 0.3 = 0.78$
 The percent of recharge available for appropriation is 100%.

Authorized Quantity values are as of 03-AUG-2017 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 4 water right(s) and 3 point(s) of diversion within the circle.

File Number	Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres		
A	41533	00	IRR	NK	G		NC	W2	2640	3960	27	04	01E	1	WR	73.00	73.00	57.00	57.00	
A	44407	00	IRR	NK	G		SW	SW	SW	160	4950	22	04	01E	1	WR	168.00	168.00	140.00	140.00
A	46859	00	STK	MM	G		SW	SW	NW	3118	5263	23	04	01E	1	WR	13.44	13.44		
A	49866	00	STK	AY	G		SW	SW	NW	3118	5263	23	04	01E	1	WR	23.20	23.20		

Safe Yield Report Sheet
Water Right- A4986600
Point of Diversion in NWSWSW 23-4S-1E 1 (74777)



CONFINED DAKOTA AQUIFER SYSTEM SAFE YIELD EVALUATION

FILE NUMBER: **49,866**

<u>Safe Yield Calculation</u>				
Thickness of Saturated Aquifer (in feet)	divided by	Thickness of Confining Unit (in feet)	=	A Factor
22		138	=	0.16
If Factor < 1		Multiply Normal Recharge by 0.3 to get Confined Aquifer Recharge (in inches)		
If Factor is between 1 and 2		Multiply Normal Recharge by 0.4 to get Confined Aquifer Recharge (in inches)		
If Factor > 2		Multiply Normal Recharge by 0.5 to get Confined Aquifer Recharge (in inches)		
Normal Recharge (per 5-3-11) = 2.6 inches		2.6 inches x 0.3 = 0.78 inches of recharge		
Area of consideration =	4430 acres			
Annual Recharge =	0.78 inches			
Percent Recharge =	1	100%		
Confined Dakota Aquifer Safe Yield =	287.95 acre-feet			

This would provide more recharge to a well that has a thinner confining unit and greater saturated thickness (i.e. a higher factor score).

Further review indicates that saturated thickness of the aquifer and thickness of confining unit are the 2 key variables that would most likely influence well production and recharge, respectively. Therefore, a weighted system was designed to account for this by dividing the saturated thickness by the thickness of the confining unit. The less confining unit you have the higher the recharge potential and the greater the saturated thickness the better production you will get from the well. This ratio provides a factor which can be used to evaluate the percentage of safe yield to consider as reasonable. Saturated thickness is pertinent to safe yield since per definition it is "long-term sustainable yield of the source".

Senior File

46,859

DRAFT

THE STATE



OF KANSAS

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**CERTIFICATE OF APPROPRIATION
FOR BENEFICIAL USE OF WATER**

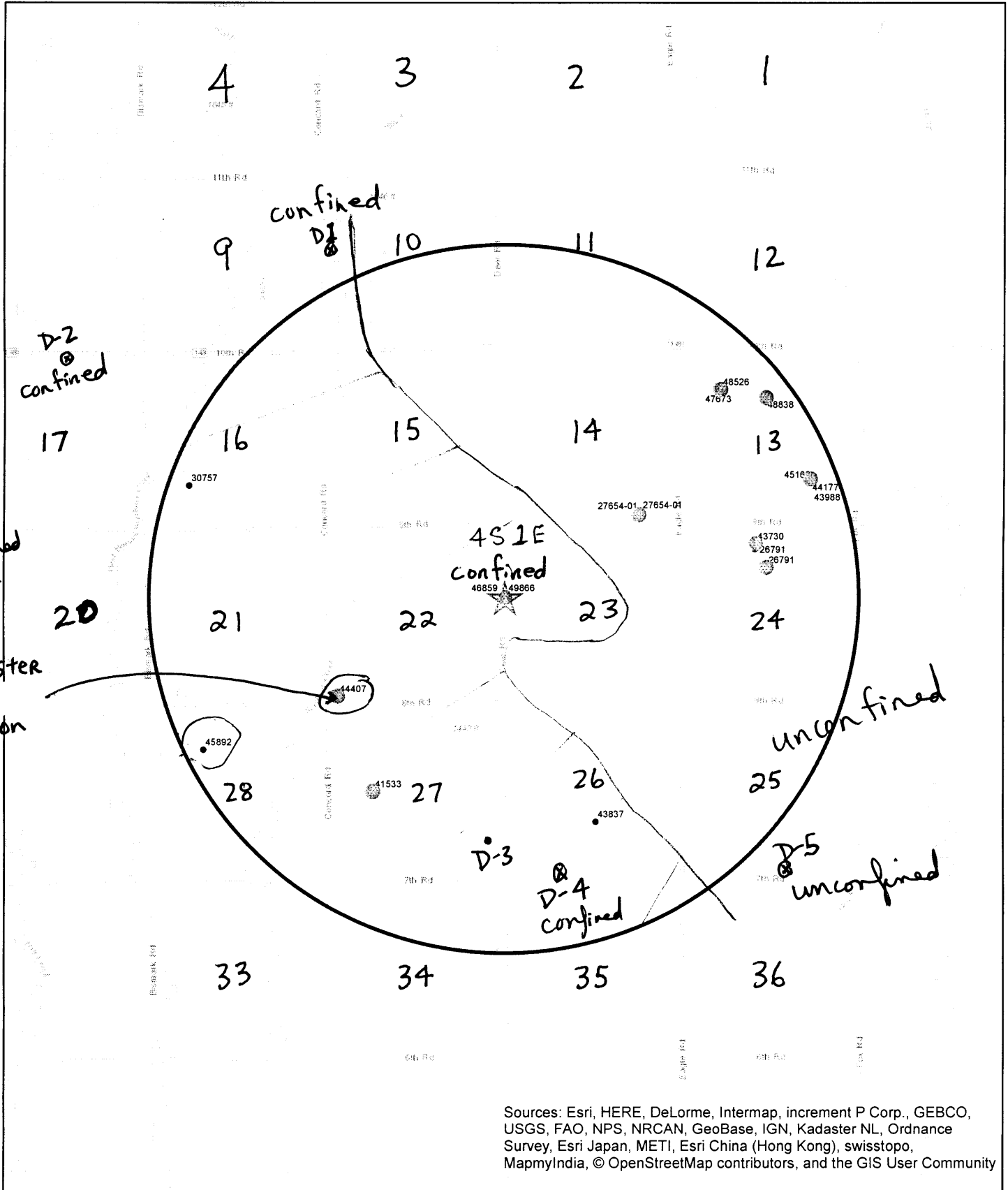
WATER RIGHT, File No. 46,859

PRIORITY DATE September 12, 2007

WHEREAS, It has been determined by the undersigned that construction of the appropriation diversion works has been completed, that water has been used for beneficial purposes and that the appropriation right has been perfected, all in conformity with the conditions of approval of the application pursuant to the water right referred to above and in conformity with the laws of the State of Kansas.

NOW, THEREFORE, Be It Known that DAVID W. BARFIELD, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas Department of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater to be withdrawn by means of a well located in the Southwest Quarter of the Southwest Quarter of the Northwest Quarter (SW¹/₄ SW¹/₄ NW¹/₄) of Section 23, more particularly described as being near a point 3,040 feet North and 5,251 feet West of the Southeast corner of said section, in Township 4 South, Range 1 East, Washington County, Kansas, at a diversion rate not in excess of **14 gallons per minute (0.031 c.f.s.)** and a quantity not to exceed **0.495 million gallons (1.52 acre-feet)** of water per calendar year for **stockwatering use** in the Southwest Quarter of the Northwest Quarter (SW¹/₄ NW¹/₄) of Section 23, Township 4 South, Range 1 East, Washington County, Kansas.

(over)



1:48,000

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





confined

D1

WATER WELL RECORD Form WWC-5 1081603

Division of Water Resources App. No.

[]

Well ID

[]

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Washington	Fraction NW 1/4 SW 1/4 SW 1/4 NW 1/4	Section Number 10	Township Number T 4 S	Range Number R 1 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
--	---	----------------------	--------------------------	--

2 WELL OWNER: Last Name: Hawley First: Dale Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:

Business:
Address: 1609 Beechwood Terrace
Address:
City: Manhattan State: KS ZIP: 66502

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

-- NW --	-- NE --	
X		E
-- SW --	-- SE --	
		S

W

-----1 mile-----

4 DEPTH OF COMPLETED WELL: 200 ft.

Depth(s) Groundwater Encountered: 1) 170 ft.
2) ft. 3) ft., or 4) Dry Well

WELL'S STATIC WATER LEVEL: 125 ft.

below land surface, measured on (mo-day-yr) 3/30/2012
 above land surface, measured on (mo-day-yr)

Pump test data: Well water was ft.
after hours pumping gpm
Well water was ft.
after hours pumping gpm

Estimated Yield: 5 gpm
Bore Hole Diameter: 10 in. to 200 ft. and in. to ft.

5 Latitude: 39.72030 (decimal degrees)
Longitude: 97.31238 (decimal degrees)
Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model:)
(WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: 1597 ft. Ground Level TOC
Source: Land Survey GPS Topographic Map
 Other KOLAR

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input checked="" type="checkbox"/> Livestock	2. <input type="checkbox"/> Irrigation	3. <input type="checkbox"/> Feedlot	4. <input type="checkbox"/> Industrial	5. <input type="checkbox"/> Public Water Supply: well ID	6. <input type="checkbox"/> Dewatering: how many wells?	7. <input type="checkbox"/> Aquifer Recharge: well ID	8. <input type="checkbox"/> Monitoring: well ID	9. Environmental Remediation: well ID	10. <input type="checkbox"/> Oil Field Water Supply: lease	11. Test Hole: well ID	12. Geothermal: how many bores?	13. <input type="checkbox"/> Other (specify):
---	--	-------------------------------------	--	--	---	---	---	---	--	------------------------------	---------------------------------------	---

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted:

Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter in. to 200 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface in. Weight lbs./ft. Wall thickness or gauge No. SDR32

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 160 ft. to 180 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 20 ft. to 200 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify) Creek

Direction from well? N Distance from well? 150 ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	Topsoil			
2	18	Tan Shale			
18	55	Grev Shale			
55	65	Sandstone			
65	150	Grev Shale			
150	170	Red Shale			
170	178	Sandstone			Notes:
178	182	Red Shale			
182	200	Tan Shale			

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 3/30/2012 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 5/17/2012 under the business name of Associated Drilling, Inc.



confined

D-2

WATER WELL RECORD Form WWC-5 1254409

Division of Water Resources App. No. Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Washington	Fraction NW¼ NW¼ NE¼	Section Number 17	Township Number T 4 S	Range Number R 1 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
--	-------------------------	----------------------	--------------------------	--

2 WELL OWNER: Last Name: J-Six Farms Business: J-Six Farms Address: 604 Nemaha St City: Seneca State: KS ZIP: 66538	Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/> .5 miles West of Hwy 148 and Bismark Rd intersection
---	---

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

NW	X	NE
SW	SE	

S

-----1 mile-----

4 DEPTH OF COMPLETED WELL: 116 ft.

Depth(s) Groundwater Encountered: 1) 65 ft
2) ft. 3) ft., or 4) Dry Well

WELL'S STATIC WATER LEVEL: 38 ft.

below land surface, measured on (mo-day-yr) 05/29/2015
 above land surface, measured on (mo-day-yr)

Pump test data: Well water was ft.
after..... hours pumping gpm
Well water was ft.
after..... hours pumping gpm

Estimated Yield: ... 50 ... gpm

Bore Hole Diameter: 10 in. to 116 ft. and
..... in. to ft.

5 Latitude: 39.711967 (decimal degrees)
Longitude: 97.339951 (decimal degrees)
Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model:)
(WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: 1459 ft. Ground Level TOC
Source: Land Survey GPS Topographic Map
 Other KOLAR

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input checked="" type="checkbox"/> Livestock	5. <input type="checkbox"/> Public Water Supply: well ID	10. <input type="checkbox"/> Oil Field Water Supply: lease
2. <input type="checkbox"/> Irrigation	6. <input type="checkbox"/> Dewatering: how many wells?	11. Test Hole: well ID
3. <input type="checkbox"/> Feedlot	7. <input type="checkbox"/> Aquifer Recharge: well ID	<input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical
4. <input type="checkbox"/> Industrial	8. <input type="checkbox"/> Monitoring: well ID	12. Geothermal: how many bores?
	9. Environmental Remediation: well ID	a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical
	<input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction	b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water
	<input type="checkbox"/> Recovery <input type="checkbox"/> Injection	13. <input type="checkbox"/> Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted:

Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter 6 in. to 116 ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface 18 in. Weight lbs./ft. Wall thickness or gauge No. SDR26

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 60 ft. to 100 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 20 ft. to 116 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify)

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	topsoil			
2	15	brown clay			
15	35	red shale			
35	65	greyshale			
65	82	sandstone			
82	116	grey shale			
Notes:					

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 05/29/2015..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760..... This Water Well Record was completed on (mo-day-year) 05/29/2015..... under the business name of Associated Drilling, Inc.....

1] LOCATION OF WATER WELL: County: Washington	Fraction NE 1/4 SE 1/4 SE 1/4	Section Number 27	Township Number T 4 S	Range Number R E EW
---	---	-----------------------------	---------------------------------	--

Distance and direction from nearest town or city street address of well if located within city?

7 miles north, 1 mile west of Clifton

2] WATER WELL OWNER: **Delbert Rusco, Jr.**
 RR#, St. Address, Box # :
 City, State, ZIP Code : **Clifton, KS 66937**

Board of Agriculture, Division of Water Resources
Application Number:

3] LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

4] DEPTH OF COMPLETED WELL... **200** ft. ELEVATION: **1412**

Depth(s) Groundwater Encountered 1. **80** ft. 2. ft. 3. ft.

WELL'S STATIC WATER LEVEL **80** ft. below land surface measured on **mo/day/yr 3-15-88**

Pump test data: Well water was **190** ft. after **3/4** hours pumping **30** gpm

Est. Yield **30** gpm: Well water was ft. after hours pumping gpm

Bore Hole Diameter **8"** in. to **200** 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
2 Irrigation	4 Industrial	7 Lawn and garden only
6 Oil field water supply	9 Dewatering	12 Other (Specify below)

Was a chemical/bacteriological sample submitted to Department? Yes No **X**; If yes, mo/day/yr sample was submitted

Water Well Disinfected? Yes **X** No

5] TYPE OF BLANK CASING USED:

1 Steel	3 RMP (SR)	6 Asbestos-Cement	9 Other (specify below)	CASING JOINTS: Glued X Clamped
2 PVC	4 ABS	7 Fiberglass		Welded
				Threaded

Blank casing diameter **5"** in. to **180** ft., Dia. in. to ft., Dia. in. to ft.

Casing height above land surface **12** in., weight **3** lbs./ft. Wall thickness or gauge No. **258**

TYPE OF SCREEN OR PERFORATION MATERIAL:

1 Steel	3 Stainless steel	5 Fiberglass	7 PVC	10 Asbestos-cement
2 Brass	4 Galvanized steel	6 Concrete tile	8 RMP (SR)	11 Other (specify)
			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	
		7 Torch cut	10 Other (specify)	

SCREEN-PERFORATED INTERVALS: From **180** ft. to **200** ft., From ft. to ft., From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **20** ft. to **200** ft., From ft. to ft., From ft. to ft., From ft. to ft.

6] GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other

Grout Intervals: From **0** ft. to **20** ft., From ft. to ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination: **NONE**

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)
			13 Insecticide storage	NONE

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	80	Clay			
80	90	Sandrock			
90	160	Clay			
160	200	Sandrock			

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) **3-15-88** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **361** This Water Well Record was completed on (mo/day/yr) **6-29-89** under the business name of **Cox-Beswick Irrigation Service, Inc.** by (signature) *Genie Beswick*

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks. underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water Protection, Topeka, Kansas 66620-7320, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY

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Confined D-4

WATER WELL RECORD Form WWC-5 1295662

Division of Water Resources App. No.

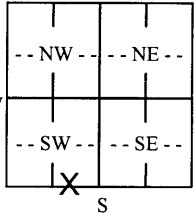
Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Washington Fraction SE 1/4 SW 1/4 SE 1/4 SW 1/4 Section Number 26 Township Number T 4 S Range Number R 1 E W

2 WELL OWNER: Last Name: CARLSON First: TED Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: [X]

3 LOCATE WELL WITH "X" IN SECTION BOX: N W E S



4 DEPTH OF COMPLETED WELL: 148 ft. Depth(s) Groundwater Encountered: 1) 122 ft. 2) ... ft. 3) ... ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: 42 ft. [X] below land surface, measured on (mo-day-yr) 02/22/2016

5 Latitude: 39.668987 (decimal degrees) Longitude: 97.287491 (decimal degrees) Datum: [X] WGS 84 [] NAD 83 [] NAD 27 Source for Latitude/Longitude: [] GPS (unit make/model: ...) (WAAS enabled? [] Yes [] No) [] Land Survey [] Topographic Map [] Online Mapper:

6 Elevation: 1398 ft. [X] Ground Level [] TOC Source: [] Land Survey [] GPS [] Topographic Map [X] Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: [X] Household [X] Lawn & Garden [] Livestock 2. [] Irrigation 3. [] Feedlot 4. [] Industrial 5. [] Public Water Supply: well ID 6. [] Dewatering: how many wells? 7. [] Aquifer Recharge: well ID 8. [] Monitoring: well ID 9. Environmental Remediation: well ID [] Air Sparge [] Soil Vapor Extraction [] Recovery [] Injection 10. [] Oil Field Water Supply: lease 11. Test Hole: well ID [] Cased [] Uncased [] Geotechnical 12. Geothermal: how many bores? a) Closed Loop [] Horizontal [] Vertical b) Open Loop [] Surface Discharge [] Inj. of Water 13. [] Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? [] Yes [X] No If yes, date sample was submitted: Water well disinfected? [X] Yes [] No

8 TYPE OF CASING USED: [] Steel [X] PVC [] Other CASING JOINTS: [X] Glued [] Clamped [] Welded [] Threaded Casing diameter 6 in. to 148 ft., Diameter in. to 24 in. Weight lbs./ft. Wall thickness or gauge No. SDR26

TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] PVC [] Other (Specify) [] Brass [] Galvanized Steel [] Concrete tile [] None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: [] Continuous Slot [X] Mill Slot [] Gauze Wrapped [] Torch Cut [] Drilled Holes [] Other (Specify) [] Louvered Shutter [] Key Punched [] Wire Wrapped [] Saw Cut [] None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 108 ft. to 148 ft., From 20 ft. to 148 ft., From 148 ft. to 148 ft., From 148 ft. to 148 ft. GRAVEL PACK INTERVALS: From 20 ft. to 148 ft., From 148 ft. to 148 ft., From 148 ft. to 148 ft.

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [] Other Grout Intervals: From 0 ft. to 20 ft., From 20 ft. to 20 ft., From 20 ft. to 20 ft., From 20 ft. to 20 ft.

Nearest source of possible contamination: [] Septic Tank [] Lateral Lines [] Pit Privy [] Livestock Pens [] Insecticide Storage [] Sewer Lines [] Cess Pool [] Sewage Lagoon [] Fuel Storage [X] Abandoned Water Well [] Watertight Sewer Lines [] Seepage Pit [] Feedyard [] Fertilizer Storage [] Oil Well/Gas Well [] Other (Specify) Direction from well? EAST Distance from well? 40 ft.

Table with columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-2 TOP SOIL, 2-7 BROWN CLAY, 7-18 RED CLAY, 18-45 RED SHALE, 45-50 GREY SHALE, 50-57 SANDSTONE, 57-60 TAN SHALE, 60-85 RED SHALE, 85-122 GREY SHALE. Notes: Notes: (blank)

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [X] constructed, [] reconstructed, or [] plugged under my jurisdiction and was completed on (mo-day-year) 02/22/2016 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 02/22/2016 under the business name of Associated Drilling, Inc.

Unconfined D-5

WATER WELL RECORD Form WWC-5

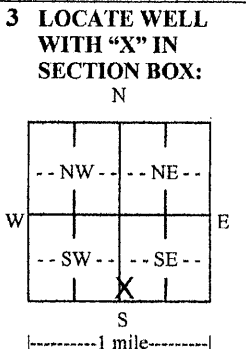
Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID

1 LOCATION OF WATER WELL: County: Washington Fraction NW 1/4 SW 1/4 SW 1/4 SE 1/4 Section Number 25 Township Number T 4 S Range Number R 1 E Q W

2 WELL OWNER: Last Name: Peterson First: Don Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: City: Clifton State: KS ZIP: 66937



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 95 ft. Depth(s) Groundwater Encountered: 1) 33 ft. 2) ... ft. 3) ... ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: 33 ft. below land surface, measured on (mo-day-yr) 09/30/2014 above land surface, measured on (mo-day-yr) ... Pump test data: Well water was ... ft. after ... hours pumping ... gpm Well water was ... ft. after ... hours pumping ... gpm Estimated Yield: 25 gpm Bore Hole Diameter: 9 in. to 95 ft. and ... in. to ... ft.

5 Latitude: 39.669423 (decimal degrees) Longitude: 97.264357 (decimal degrees) Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model) (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper

6 Elevation: 1374 ft. Ground Level TOC Source: Land Survey GPS Topographic Map Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 2. Public Water Supply: well ID 3. Dewatering: how many wells? 4. Aquifer Recharge: well ID 5. Monitoring: well ID 6. Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection 7. Oil Field Water Supply: lease 8. Test Hole: well ID Cased Uncased Geotechnical 9. Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water 10. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 5 in. to 7.5 ft., Diameter in. to ... ft., Diameter in. to ... ft. Casing height above land surface 12 in. Weight 2.37 lbs./ft. Wall thickness or gauge No. 214 TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 7.5 ft. to 95 ft., From ... ft. to ... ft., From ... ft. to ... ft. GRAVEL PACK INTERVALS: From 22 ft. to 95 ft., From ... ft. to ... ft., From ... ft. to ... ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Grout Intervals: From 0 ft. to 22 ft., From ... ft. to ... ft., From ... ft. to ... ft.

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) Direction from well? Distance from well? ft.

Table with columns: 10 FROM TO LITHOLOGIC LOG FROM TO LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-3 Topsoil, 3-10 Clay, 10-19 Sandstone, 19-25 Shale, gray, 25-95 Sandstone, soft w/small layers of coal & r...

Notes: No contamination within 1/8 mile

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 09/30/2014 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 138 This Water Well Record was completed on (mo-day-year) 10/03/2014 under the business name of Peterson Irrigation, Inc.

#49,866

J-Six Farms

46,859

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: Washington	Fraction SW 1/4 SW 1/4 NW 1/4	Section Number 23	Township Number T 4 S	Range Number R 1 E
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Distance and direction from nearest town or city street address of well if located within city? **3.5 miles East & 1.5 miles South of Brantford, KS.**

Global Positioning Systems (decimal degrees, min. of 4 digits)
 Latitude: _____
 Longitude: _____
 Elevation: _____
 Datum: _____
 Data Collection Method: _____

2 WATER WELL OWNER: **J Six Farms**
 RR#, St. Address, Box # : **506 N. 4th**
 City, State, ZIP Code : **Seneca, Ks. 66538**

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

N

	X		

W E

S

4 DEPTH OF COMPLETED WELL **160** ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
 WELL'S STATIC WATER LEVEL **70' 6"** ft. below land surface measured on mo/day/yr. **9/28/06**
 Pump test data: Well water was..... ft. after..... hours pumping..... gpm
 Est. Yield **30-35** gpm: Well water was..... ft. after..... hours pumping..... gpm

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 Dewatering **X** 2 Other (Specify below)
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well **stock well**

Was a chemical/bacteriological sample submitted to Department? Yes No **X**.....; If yes, mo/day/yr
 Sample was submitted..... Water well disinfected? Yes **X**..... No

5 TYPE OF CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued **X** Clamped.....
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded.....
X PVC 4 ABS 7 Fiberglass Threaded.....

Blank casing diameter **5** in. to **140** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface..... **12** in., Weight..... **2.37** lbs./ft. Wall thickness or gauge No. **214**.....

TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless Steel 5 Fiberglass **X** PVC 9 ABS 11 Other (Specify)
 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot **X** Mill slot 5 Guazed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify)

SCREEN-PERFORATED INTERVALS: From **140** ft. to **160** ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **30** ft. to **160** ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout **X** Bentonite 4 Other

Grout Intervals: From **4** ft. to **30** 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 **X** Livestock pens 13 Insecticide Storage 16 Other (specify below)
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well

Direction from well? **Southeast** How many feet? **200 ft.**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	4	Topsoil			
4	7	Shale, red & gray			
7	75	Iron pyrite			
75	138	Shale, gray			
138	160	Sandstone, white- soft			

RECEIVED
 OCT 12 2006
 BUREAU OF WATER

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **X** constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) .. **9/28/06**... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **138**..... This Water Well Record was completed on (mo/day/year) **10/4/06**..... under the business name of **Peterson Irrigation, Inc.** by (signature) *Mike Peterson*

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at <http://www.kdhe.state.ks.us/geo/waterwells>.

CORRECTION(S) TO WATER WELL RECORD (WWC-5)
(to rectify lacking or incorrect information)

County: Washington

Location listed as:

Location changed to:

Section-Township-Range: 23-45-1W

23-45-1E

Fraction (1/4 1/4 1/4): SW SW NW

SW SW NW

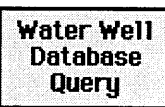
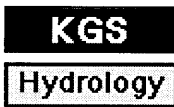
Other changes: Initial statements: _____

Changed to: _____

Comments: _____

verification method: written & legal descriptions, position on plat map,
other well record for same owner at same location, and
mapping tool on KGS website. initials: DRB date: 11/8/2006

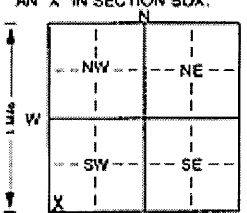
submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.



Scan of WWC5 Form

44,407

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. _____

1 LOCATION OF WATER WELL: Fraction _____ Section Number _____ Township Number _____ Range Number _____	
County: <u>Washington</u> SW % _____ SE % _____ Section <u>22</u> T <u>4</u> S R <u>1</u> E/W	
Distance and direction from nearest town or city street address of well if located within city? <u>8 north, 2 west of Clifton, KS</u>	
2 WATER WELL OWNER: <u>Chester G. Nelson</u> RR#, St. Address, Box # : <u>3009 Ocean Drive</u> Board of Agriculture, Division of Water Resources City, State, ZIP Code : <u>Corpus Christi, TX 78404-1613</u> Application Number: <u>44,407</u>	
3 LOCATE WELLS LOCATION WITH AN "X" IN SECTION BOX: 	4 DEPTH OF COMPLETED WELL: <u>278</u> ft. ELEVATION: _____ Depth(s) Groundwater Encountered 1. _____ ft. 2. _____ ft. 3. _____ ft. WELL'S STATIC WATER LEVEL: <u>108</u> ft. below land surface measured on (mo/day/yr) <u>9-27-00</u> Pump test data: Well water was <u>145</u> ft. after <u>4</u> hours pumping <u>700</u> gpm Est. Yield <u>1000</u> gpm; Well water was <u>157</u> ft. after <u>6</u> hours pumping <u>900</u> gpm Bore Hole Diameter: <u>28</u> in. to <u>277</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 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 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 _____ No <u>X</u>
5 TYPE OF BLANK CASING USED: 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued, <u>X</u> , Clamped, _____ 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____ 7 Fiberglass Threaded _____ Blank casing diameter: <u>16</u> in. to <u>218</u> ft. Dia _____ in. to _____ ft. Dia _____ in. to _____ ft. Casing height above land surface: <u>12</u> in. weight <u>schedule 40</u> lbs./ft. Wall thickness or gauge No. _____ TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement 1 Steel 3 Stainless steel 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: 5 Gauzed wrapped 8 Saw cut 11 None (open hole) 1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) _____ ft. SCREEN-PERFORATED INTERVALS: From <u>218</u> ft. to <u>278</u> ft. From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From <u>278</u> ft. to <u>20</u> ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.	
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other <u>hole plug</u> Grout Intervals: From <u>20</u> ft. to <u>0</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) 13 Insecticide storage <u>none</u> Direction from well? _____ How many feet? _____	
FROM TO LITHOLOGIC LOG FROM TO PLUGGING INTERVALS	
0 3 Top soil	216 225 Coal, shale, sand rock shales
3 15 Light brown clay	225 277 Good sand rock, loose
15 45 Brown clay	
45 75 Good sand rock	
75 95 Red & light gray shale	
95 117 Blue gray shale	
117 122 Coal, iron pyrate, & sand rock	
122 133 Blue gray shale	
133 162 Coal, iron pyrate, sand rock	
162 172 light blue gray shale	
172 175 Sand rock, sandy gray shale	
175 200 Clay	
200 212 Blue gray shale	
212 216 Sand rock & coal	
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>6-19-01</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No. <u>134</u> This Water Well Record was completed on (mo/day/yr) <u>6-20-01</u> under the business name of <u>Rosenkrantz-Bemis</u> by (signature) <u>Freddie Rosen</u>	
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRINT CLEARLY and DON'T create. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0901. Telephone 785-296-5624. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each completed well.	

Kansas Geological Survey
Comments to webadmin@kgs.ku.edu



WATER WELL RECORD Form WWC-5 1244680

Division of Water Resources App. No.

48665

Well ID

confined

- Original Record
- Correction
- Change in Well Use

1 LOCATION OF WATER WELL: County: Washington Fraction: SE 1/4 NW 1/4 SW 1/4 NW 1/4 Section Number: 30 Township Number: T 4 S Range Number: R 1 E W

2 WELL OWNER: Last Name: Livingston First: Brian Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:
 Business: Address: PO Box 136 .32 miles S of 8th Rd and
 Address: City: Reynolds State: NE ZIP: 68429 .06 miles E of Meridian Rd

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

X			

S

|-----1 mile-----|

4 DEPTH OF COMPLETED WELL: 175 ft.
 Depth(s) Groundwater Encountered: 1) 78 ft.
 2) ft. 3) ft., or 4) Dry Well
 WELL'S STATIC WATER LEVEL: 62.7 ft.
 below land surface, measured on (mo-day-yr) 02/04/2015
 above land surface, measured on (mo-day-yr)
 Pump test data: Well water was ft.
 after hours pumping gpm
 Well water was ft.
 after hours pumping gpm
 Estimated Yield: .. 200 gpm
 Bore Hole Diameter: 14.75 in. to 175 ft. and
 in. to ft.

5 Latitude: 39.67831 (decimal degrees)
Longitude: 97.36750 (decimal degrees)
 Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model: android)
 (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: 1411 ft. Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other KOLAR

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	5. <input type="checkbox"/> Public Water Supply: well ID	10. <input type="checkbox"/> Oil Field Water Supply: lease
2. <input checked="" type="checkbox"/> Irrigation	6. <input type="checkbox"/> Dewatering: how many wells?	11. Test Hole: well ID
3. <input type="checkbox"/> Feedlot	7. <input type="checkbox"/> Aquifer Recharge: well ID	<input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical
4. <input type="checkbox"/> Industrial	8. <input type="checkbox"/> Monitoring: well ID	12. Geothermal: how many bores?
	9. Environmental Remediation: well ID	a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical
	<input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction	b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water
	<input type="checkbox"/> Recovery <input type="checkbox"/> Injection	13. <input type="checkbox"/> Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted:
 Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded
 Casing diameter 10 in. to 175 ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface 24 in. Weight lbs./ft. Wall thickness or gauge No. SDR26

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify)
 Brass Galvanized Steel Concrete tile None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify)
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)
SCREEN-PERFORATED INTERVALS: From 100 ft. to 160 ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 20 ft. to 175 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other
 Grout Intervals: From 0 ft. to 20 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify)
 Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	30	brown clay			
30	46	sandstone			
46	60	red shale			
60	78	grey shale			
78	157	sandstone			
157	175	grey shale			
Notes:					

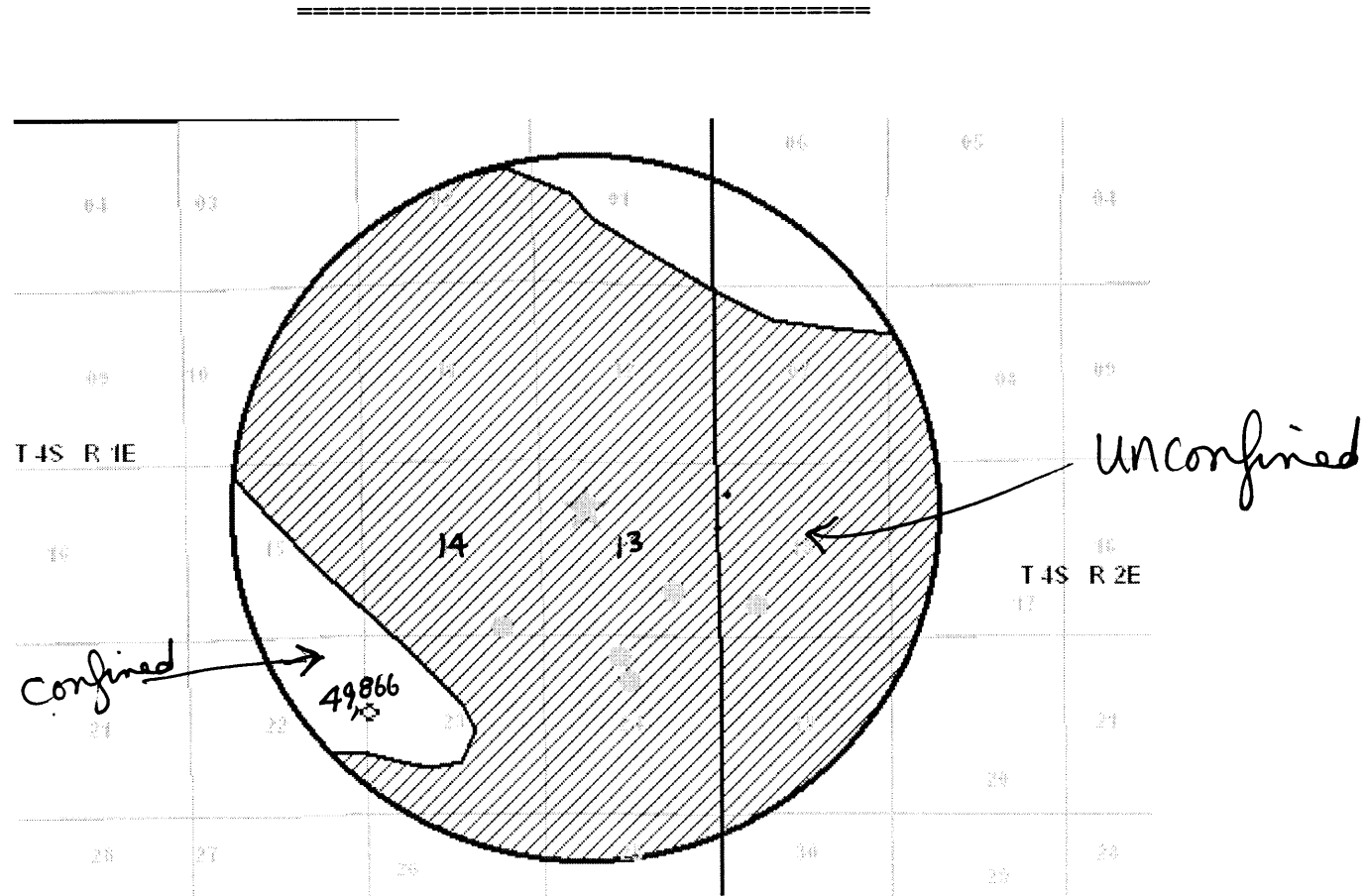
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 01/20/2015 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 760 This Water Well Record was completed on (mo-day-year) 03/02/2015 under the business name of Associated Drilling, Inc.

Nearly Safe Yield
Leiszler

Safe Yield Report Sheet

Water Right A4767300

Point of Diversion in NWNC 13-4S-1E 4 (78093)



Analysis Results

The selected PD is in an area OPEN to new appropriations.
The safe yield, based on the variables listed below is 1,153.58 AF.
Total prior appropriation in the circle is 1,087.80 AF.
Total quantity of water available for appropriation is 65.78 AF.

Safe Yield Variables

The area used for the analysis is set at 6836 acres.
Potential annual recharge of the area is estimated to be 2.7 inches.
The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 01-AUG-2011 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 7 water right(s) and 6 point(s) of diversion within the circle.

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File Number      Use ST SR Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID  Qind Auth_Quant  Add_Quant  Tacres  Nacres
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A      26791 00 IRR NK G      SE NE NW 4045 2672 24 04 01E 2  WR      76.00      76.00 118.00 118.00
A      27654 01 STK NK G      SW SE SE  234 1189 14 04 01E 1  WR      16.80      16.80
A      43730 00 IRR NK G      NE NE NW 4751 2990 24 04 01E 3  WR      40.00      19.00 118.00  0.00
A      44177 00 IRR LO G      SE NW SE 1358 1334 13 04 01E 3  WR     240.00     240.00 480.00 480.00
A      45168 00 IRR LO G      SE NW SE 1358 1334 13 04 01E 3  WR     336.00     336.00 480.00  0.00
A      46202 00 IRR LO G      NW SE SW 1050 3850 18 04 02E 3  WR     333.60       0.00 278.00  0.00
A      47673 00 IRR AY G      NC NW 3960 3960 13 04 01E 4  WR     400.00     400.00 614.00 134.00
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KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: January 27, 2011

FROM: Doug Schemm

RE: Application – File No. 46,859

J-Six Farms Inc. has filed the above referenced application proposing to appropriate a total of 4.38 million gallons (13.44 acre-feet) of groundwater per calendar year at a diversion rate not to exceed 50 gallons per minute (gpm) for stockwatering use at a confined hog facility. The proposed appropriation is located in the Republican River drainage basin. The application is proposing to authorize an existing well located in the Southwest Quarter of the Southwest Quarter of the Northwest Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 23, Township 04 South, Range 01 East, in Washington County, Kansas. The place of use is owned by the applicant. This application has no overlaps in point of diversion or place of use.

However the applicant has another hog facility located approximately 4700 feet to the Northeast of this new application, which is currently authorized under Domestic Water Right, File No. 27,654.01. File No. 27,654.01 will be converted to Stockwatering Use in conjunction with the approval of this pending new application.

Please note, the source of the groundwater is the Unconfined Dakota aquifer system, based on the regulatory definition of the unconfined Dakota aquifer system when the application was assigned a priority (September 12, 2007). To be consistent with previous files in this area, per K.A.R. 5-3-11, an evaluation of safe yield includes the entire 2-mile area of consideration around the point of diversion within the limits of the unconfined aquifer. For this specific file, this results in an area of consideration of the full two mile circle (8,042 acres), a recharge of 2.6 inches, and 75% available for appropriation, resulting in a safe yield of 1,306.83 acre-feet. This safe yield calculation is based on the extent of the unconfined Dakota aquifer in this area and is consistent with K.A.R. 5-3-11 criteria for determination of safe yield, and the previous determination of safe yield for other area files, prior to the October 31, 2008 definition change for this aquifer. There are seven senior water rights within the two-mile circle that have appropriated 952.8 acre-feet. In addition, the conversion of Domestic Water Right, File No. 27,654.01 to stockwatering use will appropriate another 16.8 acre-feet within the area of consideration. Therefore, the remaining quantity of water available is 337.23 acre-feet, and there is water available for this pending application requesting 13.44 acre-feet, and safe yield criteria have been met.

The requested quantity of 4.38 million gallons was based on providing an adequate supply of water for a 2,400-head hog facility. The applicant did not request any water for cooling or sanitation purposes. The applicant provided an estimate for drinking water quantity as follows:

2,400 head of hogs x 5 gallons per head per day x 365 days = 4,380,000 gallons.

K.A.R. 5-3-22 provides for a maximum of 5 gallons of drinking water per head per day for finishing hogs. The requested quantity and rate of diversion appear to be reasonable for the intended use.

There are no previous appropriations located within one-half ($\frac{1}{2}$) mile of the proposed point of diversion. The applicant did not identify any domestic wells located within one-half ($\frac{1}{2}$) mile of the proposed point of diversion. A search of the KGS WWC-5 well database indicates only one (1) other domestic well owned by the applicant within this area. Based on the source of supply (unconfined Dakota aquifer system), K.A.R. 5-4-4 requires minimum well spacing of 2,640 feet (1/2-mile) to non-domestic wells and 1,320 feet (1/4-mile) to domestic wells. The proposed point of diversion meets these minimum well spacing criteria. The nearest non-domestic well is located over one mile away.

* File #46,859 was filed prior to change in
 Definition for confined/unconfined DAKOTA Aquifer.
 DWS/DWR

Meets Safe
 Yield

Analysis Results

The selected PD is in an area OPEN to new appropriations.
 The safe yield, based on the variables listed below is 1,306.83 AF.
 Total prior appropriation in the circle is 1,366.24 AF. - 413.44 = 952.80 AF
 Total quantity of water available for appropriation is ~~0.00~~ AF.

354.03 AF

Safe Yield Variables

The area used for the analysis is set at 8,042 acres.
 Potential annual recharge of the area is estimated to be 2.6 inches.
 The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 27-JAN-2011 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 9 water right(s) and 8 point(s) of diversion within the circle.

File Number	Use	ST	SR	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Qind	Auth_Quant	Add_Quant	Tacres	Nacres	
A	26791	00	IRR	NK	G	SE	NE	NW	4045	2672	24	04	01E	2	WR	76.00	76.00	118.00	118.00
A	27654	01	DOM	NK	G	SW	SE	SE	234	1189	14	04	01E	1	WR	16.80	16.80		
A	41533	00	IRR	NK	G		NC	W2	2640	3960	27	04	01E	1	WR	73.00	73.00	57.00	57.00
A	43730	00	IRR	NK	G	NE	NE	NW	4751	2990	24	04	01E	3	WR	40.00	19.00	118.00	0.00
A	44177	00	IRR	LO	G	SE	NW	SE	1358	1334	13	04	01E	3	WR	240.00	240.00	480.00	480.00
A	44407	00	IRR	LR	G	SW	SW	SW	137	4983	22	04	01E	1	WR	192.00	192.00	160.00	160.00
A	45168	00	IRR	LO	G	SE	NW	SE	1358	1334	13	04	01E	3	WR	336.00	336.00	480.00	0.00
A	46859	00	STK	AY	G	SW	SW	NW	3118	5263	23	04	01E	1	WR	13.44	13.44		
A	47673	00	IRR	AY	G		NC	NW	3960	3960	13	04	01E	4	WR	400.00	400.00	614.00	134.00

*x Conversion of File #27,654.01 to STK from Domestic
 will result in another 16.8 AF appropriated in circle,
 but new App will still meet safe yield. DWS/DWR



1320 Research Park Drive
Manhattan, Kansas 66502

Jackie McClaskey, Secretary

Phone: (785) 564-6700
Fax: (785) 564-6777
Email: ksag@kda.ks.gov
www.agriculture.ks.gov
Sam Brownback, Governor

July 3, 2017

J-SIX ENTERPRISES, LLC
JENNIFER GERETY
PO BOX 170 604 NEMAHA ST
SENECA KS 66538

FILE COPY

RE: Application
File No. 49866

Dear Sir or Madam:

Your application for permit to appropriate water in 23-4S-1E in Washington County, was received and has been assigned the file number noted above.

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor . . .

A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Kristen A. Baum
New Applications Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: TOPEKA Field Office
GMD

SCANNED

J-SIX ENTERPRISES, LLC - NEW APPLICATION
Overlaps in Point of Diversion and
Place of Use with File No. 46,859

49,866



1:12,000

- Proposed Point of Diversion
- ▨ Proposed Place of Use

June 29, 2017

There are no known wells within one-half mile of the proposed point of diversion.

JUL 03 2017

SCANNED

KS DEPT OF AGRICULTURE