

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

1. File Number: <p style="text-align: center;">49712</p>	2. Status Change Date: <p style="text-align: center;"><i>6/14/2017</i></p>	3. Field Office: <p style="text-align: center;">02</p>	4. GMD:
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5. Status: Approved Denied by DWR/GMD Dismiss by Request/Failure to Return

6. Enclosures: Check Valve N of C Form Water Tube Driller Copy Meter

<p>7a. Applicant(s) Person ID <u>65192</u> New to system <input type="checkbox"/> Add Seq# _____</p> <p>J S BROUSSARD FARMS LLC ← <i>name change</i> 1301 COMMON ST LAKE CHARLES LA 70601</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 checked="" type="checkbox"/> IRR <input type="checkbox"/> REC <input type="checkbox"/> DEW <input type="checkbox"/> MUN</p> <p><input 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>
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10. Completion Date: **12/31/2018** 11. Perfection Date: **12/31/2022** 12. Exp Date: _____

13. Conservation Plan Required? Yes No Date Required: _____ Date Approved: _____ Date to Comply: _____

14. Water Level Measuring Device? Yes No Date to Comply: _____ Date WLMD Installed: _____

Date Prepared: **5/26/17** By: **MJM**
Date Entered: *6/15/2017* By: *UM*

Bluff Creek (Cimarron)

File No. **49,712** 15. Formation Code: **100** Drainage Basin: ~~Cimarron River~~ County: **CM** Special Use: Stream:

16. Points of Diversion								
MOD	PDIV	Qualifier	S	T	R	ID	'N	'W
√		85649 SESWNE	11	32S	19W	2	2730	1400

17. Rate and Quantity				
Authorized		Additional		Overlap PD Files
Rate gpm/cfs	Quantity af/mgy	Rate gpm/cfs	Quantity af/mgy	
50	5	50	5	None

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	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					
√	68059	12	32S	19W	2																	

Comments: **Requested quantity and rate were reduced during processing of application**

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

MEMORANDUM

TO: Files

DATE: May 26, 2017

FROM: Matt Meier

RE: Application, File No. 49,712

Steve Broussard of J.S. Broussard Farms, LLC has filed the referenced application to appropriate groundwater for irrigation use, requesting one (1) well, a quantity of 5 acre-feet, and a diversion rate of 50 gallons per minute. The proposed well is to be located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 2730 feet North and 1400 feet West of the Southeast corner of said section, in Township 32 South, Range 19 West, Comanche County, in the ~~Cimarron River~~ ^{Blue Creek (Cimarron)} drainage basin within the boundaries of South-Central Kansas Designated Unit Area-BLC65. There are no other water rights overlapping the proposed place of use and point of diversion. The proposed place of use is owned by the applicant. The applicant has signed the application form stating that he has legal access to the point of diversion. This application was filed to cover currently illegal irrigation use which was found after a complaint. The applicant is putting in a new well as the original illegal well was located too close to Municipal Water Right File No. 114 and would have failed spacing. The application was reduced at the applicant's request from 15 acre-feet to 5 acre-feet at a rate of diversion of 50 gallons per minute to qualify for K.A.R. 5-3-16a, an exemption of up to five acre-feet of groundwater in closed areas.

The applicant identified three domestic wells (two of which are owned by applicant) within one-half mile of the proposed wells and one non-domestic wells, which WRIS confirmed. Nearby well notification letters were sent out on March 21, 2017. Domestic well owner Betty Long (from Long Ranch) called in to discuss the application and gain more information on it. According to the WRIS database, the nearest non-domestic point of diversion (File No. 114) is located 1,752 feet away. The nearest domestic well (not owned by the applicant and in use) appears to be 1,640 feet away. The proposed point of diversion meets minimum well spacing to all existing wells. Per the requirements in K.A.R. 5-4-4 for all other aquifers, the minimum well spacing should be one-quarter mile to all other non-domestic wells and 660 feet to domestic wells.

A nearby well log submitted with the application shows sand from 0 to 20 feet, clay from 25 to 30 feet, sand from 30 to 60 feet, sand & clay mix from 60 to 100 feet, sand from 100 to 160 feet, and red shale mixed with clay from 160 to 175 feet below ground. Static water level was at 20 feet below ground which provides a saturated thickness of 140 feet for that particular well.

The point of diversion is located within South Central Kansas Designated Unit Area BLC65. Per the requirements in K.A.R. 5-3-11, safe yield is determined by the extent of the unconfined aquifer within a two-mile circle radius of the point of diversion, which establishes the area of consideration. However, for points of diversion located within a Designated Unit Area, safe yield evaluation is a two-step approach. The first step is to determine that water is available in the specific Designated Unit Area, and then the 2-mile area of consideration is reviewed. For this application, it was determined that Designated Unit Area BLC65 has zero acre-feet of water available for appropriation (based on the DUA tracking spreadsheet currently 850 acre-feet over). Per K.A.R. 5-3-16a, an exemption of up to five acre-feet of groundwater can be granted for closed areas which the applicant is requesting.

* The requested quantity of water, 5 acre-feet, is to irrigate the proposed 10 acres identified in the application. This is 0.5 acre-feet per acre, which is less than the maximum allowable of 1.5 acre-feet per acre for Comanche County, Kansas and less than the minimum reasonable of 1.27 acre-feet per acre. There are multiple pending applications in this general area of the state, and they are being worked in priority order to ensure that senior applications are provided the available water.

* See 6-8-17 email for more justification

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. A water level measurement tube is required because this is a proposed new well exceeding 100 gpm.

Jeff Lanterman, Water Commissioner Stafford Field Office, reviewed and recommended the application for approval on May 24, 2017. Based on the above discussion, well spacing and safe yield criteria are met with the small use exemption, 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.

Matthew J. Meier
Environmental Scientist
Water Appropriations Unit



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

June 16, 2017

FILE COPY

J S BROUSSARD FARMS LLC
1301 COMMON ST
LAKE CHARLES LA 70601

RE: Application, File No. 49,712

Dear Mr. Broussard:

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 this permit. A water meter is required 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

Enclosures

pc: Stafford 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. 49,712** of the applicant

**J S BROUSSARD FARMS LLC
 1301 COMMON ST
 LAKE CHARLES LA 70601**

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 **September 29, 2016**.
2. That the water sought to be appropriated shall be used for irrigation use on land described in the application, as follows:

Sec. Twp. Range	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTAL	
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$		
12 32S 19W						10												10

3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of a one (1) well, which is to located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 2,730 feet North and 1,400 feet West of the Southeast corner of said section, in Township 32 South, Range 19 West, Comanche County, located substantially as shown on the map accompanying the application.

4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **50 gallons per minute (0.111 c.f.s.)** and to a quantity not to exceed **5 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 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).

13. 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.

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

15. 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.

This Order shall become a final agency action, as defined by K.S.A. 77-607(b), without further notice to the parties, if a request for hearing or a petition for administrative review is not filed as set forth below.

Request for Hearing. According to K.A.R. 5-14-3(c), any party who desires a hearing must submit a request within 15 days after the date shown on the Certificate of Service attached to this Order. Filing a request for a hearing will give you the opportunity to submit additional facts for consideration, contest any findings made by the Chief Engineer, or present any other information you believe should be considered in this matter. A timely-filed request for hearing will stay the deadline for requesting administrative review of this Order pending the outcome of the hearing.

Petition for Review. The applicant, if aggrieved by this Order, may petition for administrative review, pursuant to K.S.A. 82a-711(c) and K.S.A. 82a-1901(a). The petition must be filed within 30 days after the date shown on the Certificate of Service attached to this Order and must set forth the basis for the review, unless stayed by the timely filing of a request for hearing.

Any request for hearing or petition for administrative review shall be in writing and shall be submitted to the attention of: Chief Legal Counsel, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502, Fax: (785) 564 - 6777.

Ordered this 14th day of June, 2017, in Topeka, Shawnee County, Kansas.

Lane P. Letourneau

Lane P. Letourneau, L.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 14th day of June, 2017, by Lane P. Letourneau, L.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Danielle Wilson

Notary Public

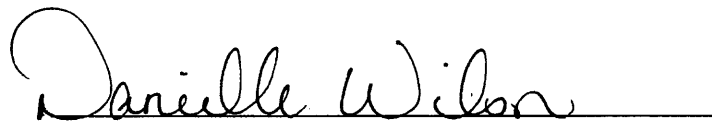
CERTIFICATE OF SERVICE

On this 16th day of June, 2017, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 49,712, dated June 14, 2017 was mailed postage prepaid, first class, US mail to the following:

J S BROUSSARD FARMS LLC
1301 COMMON ST
LAKE CHARLES LA 70601

With photocopies to:

Stafford Field Office

A handwritten signature in cursive script that reads "Danielle Wilson". The signature is written in black ink and is positioned above a solid horizontal line.

Division of Water Resources

THE STATE OF KANSAS



APPLICATION COMPLETE
6/18/17
Reviewer KAB

APPLICATION COMPLETE
9/29/16
Reviewer MJM

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

WATER RESOURCES RECEIVED
SEP 29 2016
11:43
KS DEPT OF AGRICULTURE

File Number 49,712
This item to be completed by the Division of Water Resources.

WATER RESOURCES RECEIVED
UNACCEPTABLE FOR PRIORITY
SEP 29 2016
KS DEPT OF AGRICULTURE

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.)

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

1. Name of Applicant (Please Print): Steve Broussard, sole member J.S. Broussard Farms, LLC
Address: 1301 Common St.
City: Lake Charles State LA Zip Code 70601
Telephone Number: (337) 496-7383

2. The source of water is: surface water in Bluff Creek (Cimarron)
OR groundwater in Cimarron Basin (S-C. KS DUA-15LC65)
(stream) (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 553 acre-feet OR _____ gallons per calendar year, to be diverted at a maximum rate of 50 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. <u>2</u>	GMD <u>0</u>	Meets K.A.R. 5-3-1	(<u>YES</u>) NO	Use <u>F2R</u>	Source <u>G/S</u>	County <u>CM</u>	By <u>ADW</u> Date <u>9/29/16</u>
Code <u>RF6</u>	Fee \$ <u>200</u>	TR # _____	Receipt Date <u>9/29/16</u>	Check # <u>31008</u>			

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 SE quarter of the SW quarter of the ~~NW~~ ^{NE *} quarter of Section 11, more particularly described as being near a point 2730 feet North and 1400 feet West of the Southeast corner of said section, in Township 32 South, Range 19 East/West (circle one), Comanche 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):

(name, address and telephone number)

(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 Sept. 19, 2016. Steven Beaudet
Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

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) 10/1/2016
(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 3/15/2017
(Mo/Day/Year)

* AJW/DWR

WATER RESOURCES RECEIVED

WATER RESOURCES RECEIVED

SEP 29 2016

UNACCEPTABLE FOR PRIORITY

SCANNED

- 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 _____

Will not be impounding water, not constructing dam or reservoir

- 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 1/2 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 1/2 mile, please advise us.
- (c) If the application is for surface water, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 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 RESOURCES
RECEIVED

WATER RESOURCES
RECEIVED

SEP 08 2016
UNACCEPTABLE FOR PRIORITY

SEP 29 2016

KS DEPT OF AGRICULTURE

KS DEPT OF AGRICULTURE

SCANNED

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	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____
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, tenant, agent or otherwise)

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

(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 Pratt, Kansas, this 19th day of September, 2016.
(month) (year)

Steven Biello
(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Josh U.C. Nicolai Attorney/Stafford Ewing, LLC Date: 9/19/2016
(office/title)

WATER RESOURCES
RECEIVED

SEP 29 2016

SCANNED

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	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____
Depth to water bearing formation	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____
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):

(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 Pratt, Kansas, this 25th day of August, 2016.
(month) (year)

Steven Brumand
(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Josh V.C. Nicolay Attorney Date: 8/25/2016
#25-119 (office/title)

WATER RESOURCES RECEIVED
SEP 29 2016
KS DEPT OF AGRICULTURE

WATER RESOURCES RECEIVED
SEP 06 2016
UNACCEPTABLE FOR PRIORITY
KS DEPT OF AGRICULTURE
SCANNED

J.S. BROUSSARD FARMS, LLC AERIAL MAP LEGEND

- 1. J.S. Broussard Farms, LLC
1301 Common St.
Lake Charles, LA 70601
Well is currently unpermitted/unused

- 2. City of Coldwater
239 E. Main
Coldwater, KS 67029
Water right # CM 1-00

- 3. J.S. Broussard Farms, LLC
1301 Common St.
Lake Charles, LA 70601
Domestic well – currently unused

- 4. Long Ranch
c/o Marilyn Long
RR 1, Box 150
Gate, OK 73844

WATER RESOURCES
RECEIVED

WATER RESOURCES
RECEIVED

SEP 29 2016

KS DEPT OF AGRICULTURE

SEP 06 2016
UNACCEPTABLE FOR PRIORITY
KS DEPT OF AGRICULTURE
SCANNED

**IRRIGATION USE
SUPPLEMENTAL SHEET**

File No. 49,712

Name of Applicant (Please Print): Broussard Farms, LLC

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: Broussard Farms, LLC
ADDRESS: 1301 Common St. Lake Charles, LA 70601

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12	32	19	W					X											10

Landowner of Record NAME: _____
ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record NAME: _____
ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Waldeck Fine Sandy Loam	100%	4.0	9
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

b. Estimate the average land slope in the field(s): 0-1 %

Estimate the maximum land slope in the field(s): 0-1 %

c. Type of irrigation system you propose to use (check one):

- Center pivot
- Center pivot - LEPA
- "Big gun" sprinkler
- Gravity system (furrows)
- Gravity system (borders)
- Sideroll sprinkler

Other, please describe: _____

d. System design features:

i. Describe how you will control tailwater:

See attached

ii. For sprinkler systems:

- (1) Estimate the operating pressure at the distribution system: 90-100 psi
- (2) What is the sprinkler package design rate? 50-100 gpm
- (3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? 240 feet
- (4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

See attached

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

See attached

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

WATER RESOURCES RECEIVED

WATER RESOURCES RECEIVED

SEP 29 2016

UNACCEPTABLE FOR PRIORITY

SEP 06 2016

KS DEPT OF AGRICULTURE

KS DEPT OF AGRICULTURE

SCANNED

Baum, Kristen

From: Meier, Matt
Sent: Thursday, June 8, 2017 11:58 AM
To: Baum, Kristen
Subject: RE: 49712 Approval Docs

Kristen,

Can do, would you prefer it in memo or would email suffice? Basically when I discussed it with Jeff the main reason we decided to allow it to go forward with less AF/Acre than the normal minimum reasonable was that the applicant was proposing to use the water to supplement rain on a 10 acre patch of grass used for forage for hunting. Since he wasn't planning on harvesting the grass, using grass for ascetics, or anything else that would likely lead to high use once the grass patch was established, which I think might already be the case as this was an illegal operation that was discovered due to a complaint, it decided to allow application to go forward as is. The limited quantity was explained to the applicant and a representative of his via letter, phone, and in person (the representative) and they agreed that they would make the reduced quantity work instead of dismissing the application.

Hopefully this helps explain the reasoning behind it and I meant to add it into the memo before sending it out but apparently forgot to. I'll actually be out of the office this afternoon and Friday but if you want I can put a more formal memo together if needed on Monday. Let me know if you have any other questions.

Matt

From: Baum, Kristen
Sent: Thursday, June 8, 2017 11:37 AM
To: Meier, Matt <Matt.Meier@ks.gov>
Subject: RE: 49712 Approval Docs

Hi Matt,

I'm getting this one ready for Lane's signature. It looks like you guys discussed why the 5AF would be reasonable for 10 ac in this case. Can you send me a quick note for the file that explains the justification?

Thanks,
Kristen

From: Meier, Matt
Sent: Friday, May 26, 2017 3:28 PM
To: Baum, Kristen <Kristen.Baum@ks.gov>
Subject: 49712 Approval Docs

Hello Kristen,

Attached are the approval documents for File No. 49,712 which is a small use exemption for irrigation use. Let me know if you have any questions or need anything modified.

Have a great holiday weekend,

Matt

Draft

**KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources**

M E M O R A N D U M

TO: Files

DATE: May 24, 2017

FROM: Matt Meier

RE: Application, File No. 48,845 ⁴⁹⁷¹²

Steve Broussard of J.S. Broussard Farms, LLC has filed the referenced application to appropriate groundwater for irrigation use, requesting one (1) well, a quantity of 5 acre-feet, and a diversion rate of 50 gallons per minute. The proposed well is to be located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 2730 feet North and 1400 feet West of the Southeast corner of said section, in Township 32 South, Range 19 West, Comanche County, in the Cimarron River drainage basin within the boundaries of South-Central Kansas Designated Unit Area-BLC65. There are no other water rights overlapping the proposed place of use and point of diversion. The proposed place of use is owned by the applicant. The applicant has signed the application form stating that he has legal access to the point of diversion. This application was filed to cover currently illegal irrigation use which was found after a complaint. The applicant is putting in a new well as the original illegal well was located too close to Municipal Water Right File No. 114 and would have failed spacing. The application was reduced at the applicant's request from 15 acre-feet to 5 acre-feet at a rate of diversion of 50 gallons per minute to qualify for K.A.R. 5-3-16a, an exemption of up to five acre-feet of groundwater in closed areas.

The applicant identified three domestic wells (two of which are owned by applicant) within one-half mile of the proposed wells and one non-domestic wells, which WRIS confirmed. Nearby well notification letters were sent out on March 21, 2017. Domestic well owner Betty Long (from Long Ranch) called in to discuss the application and gain more information on it. According to the WRIS database, the nearest non-domestic point of diversion (File No. 114) is located 1,752 feet away. The nearest domestic well (not owned by the applicant and in use) appears to be 1,640 feet away. The proposed point of diversion meets minimum well spacing to all existing wells. Per the requirements in K.A.R. 5-4-4 for all other aquifers, the minimum well spacing should be one-quarter mile to all other non-domestic wells and 660 feet to domestic wells.

A nearby well log submitted with the application shows sand from 0 to 20 feet, clay from 25 to 30 feet, sand from 30 to 60 feet, sand & clay mix from 60 to 100 feet, sand from 100 to 160 feet, and red shale mixed with clay from 160 to 175 feet below ground. Static water level was at 20 feet below ground which provides a saturated thickness of 140 feet for that particular well.

The point of diversion is located within South Central Kansas Designated Unit Area BLC65. Per the requirements in K.A.R. 5-3-11, safe yield is determined by the extent of the unconfined aquifer within a two-mile circle radius of the point of diversion, which establishes the area of consideration. However, for points of diversion located within a Designated Unit Area, safe yield evaluation is a two-step approach. The first step is to determine that water is available in the specific Designated Unit Area, and then the 2-mile area of consideration is reviewed. For this application, it was determined that Designated Unit Area BLC65 has zero acre-feet of water available for appropriation (based on the DUA tracking spreadsheet currently 850 acre-feet over). Per K.A.R. 5-3-16a, an exemption of up to five acre-feet of groundwater can be granted for closed areas which the applicant is requesting.

The requested quantity of water, 5 acre-feet, is to irrigate the proposed 10 acres identified in the application. This is 0.5 acre-feet per acre, which is less than the maximum allowable of 1.5 acre-feet per acre for Comanche County, Kansas and less than the minimum reasonable of 1.27 acre-feet per acre. There are multiple pending applications in this general area of the state, and they are being worked in priority order to ensure that senior applications are provided the available water.

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. A water level measurement tube is required because this is a proposed new well exceeding 100 gpm.

Based on the above discussion, well spacing and safe yield criteria are met with the small use exemption, 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.

Matthew J. Meier
Environmental Scientist
Water Appropriations Unit

*Approve this.
Add to the memo RE: reasons we felt 10 acres were OK*
JMM

49712

Summary Report Sheet

Total Authorized Quantity in Acre-Feet

Appropriated quantities are as of 6/8/2017 and are based on non-dismissed, active water rights and unapproved water right applications. There are 20 water right(s) and 19 point(s) of diversions selected.

Authorized quantity values are in acre-feet (AF).

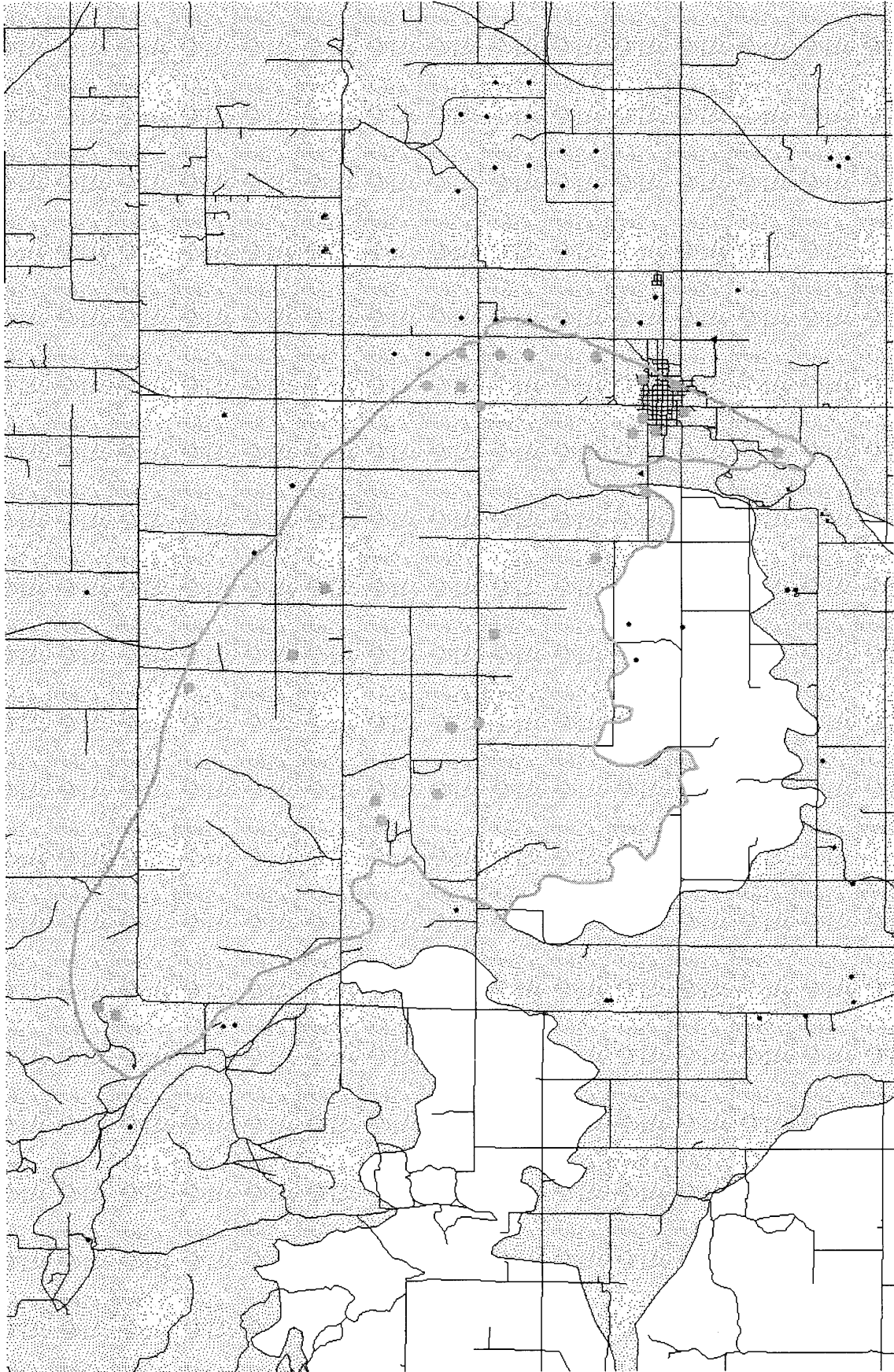
Water Source and Use Made of Water Matrix:

	DOM	IND	IRR	MUN	REC	STK	OTHER	TOTAL
	---	---	---	---	---	---	-----	-----
SURFACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GROUND	0.00	0.00	2,636.00	175.00	0.00	0.00	0.00	2,811.00
TOTAL	0.00	0.00	2,636.00	175.00	0.00	0.00	0.00	2,811.00

Irrigated Acres by Source:

Surface: 0.00 Ground: 2,090.60 Total: 2,090.60

1946 AF
allowed



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

2730 ft N and 1400 ft W of the SE Corner of Section 11, T 32S, R 19W

Located at: 99.350728 West Longitude and 37.273321 North Latitude

GROUNDWATER ONLY

#49712

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A__ 114	00	MUN	NK	G	1752	--	SW	SW	NW	-----	-----	12	32	19W	4	242.00	242.00	AF	
A__ 4051	00	MUN	NK	G	9236	--	SE	SE	SW	-----	-----	7	32	18W	1	39.00	.00	AF	
A__ 19071	00	MUN	NK	G	8731	--	--	--	--	2966	3102	7	32	18W	2	91.68	.00	AF	
A__ 30331	00	IRR	NK	G	10255	--	SW	NE	NE	4115	1015	9	32	19W	1	195.00	195.00	AF	
A__ 34849	00	IRR	NK	G	6490	--	--	NC	SE	1320	1330	3	32	19W	1	195.00	195.00	AF	
A__ 49712	00	IRR	AY	G	0	--	SE	SW	NE	2730	1400	11	32	19W	2	15.00	15.00	AF	
VCM	1	00	MUN	AA	G	4652	--	NW	SW	NE	3750	2150	12	32	19W	2	175.00	175.00	AF

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	15.00	.00
Total Permitted Amount (AF) =	.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	632.00	.00
Total Vested Amount (AF) =	175.00	.00
TOTAL AMOUNT (AF) =	822.00	.00

An * after the source of supply indicates a pending application for change for the file number.
 An * after the ID indicates a 15 AF exemption was granted for 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:

99.350728 West Longitude and 37.273321 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 114	00	MUN	NK G
> CITY OF COLDWATER			
>			
> 239 E MAIN BOX 743			
> COLDWATER KS 67029			
>-----			
A__ 4051	00	MUN	NK G
> CITY OF COLDWATER			
>			
> 239 E MAIN BOX 743			
> COLDWATER KS 67029			
>-----			
A__ 19071	00	MUN	NK G
> CITY OF COLDWATER			
>			
> 239 E MAIN BOX 743			
> COLDWATER KS 67029			
>-----			
A__ 30331	00	IRR	NK G

> TIMOTHY & MARILYN RIETZKE TRUSTS

>
> 901 AVENUE J
> COLDWATER KS 67029

>-----
A__ 34849 00 IRR NK G

> CLARK BIBB
>
> PO BOX 72
> COLDWATER KS 67029

>-----
A__ 49712 00 IRR AY G

> BROUSSARD FARMS LLC
>
> 1301 COMMON ST
> LAKE CHARLES LA 70601

>-----
VCM 1 00 MUN AA G

> CITY OF COLDWATER
>
> 239 E MAIN BOX 743
> COLDWATER KS 67029

>-----
=====


Kansas
Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

March 21, 2017

City of Coldwater
239 E. Main
Coldwater, KS 67029

Re: Pending Application, File No. 49,712

Dear Sir or Madam:

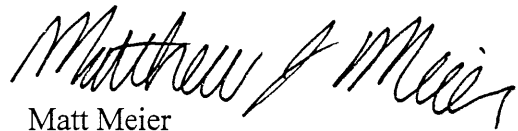
This is to advise you that Steve Broussard has filed the application referred to above for a permit to appropriate 5 acre-feet of groundwater per calendar year for industrial use to be diverted at a maximum rate of 50 gallons per minute. The proposed point of diversion for 49,712 is one (1) well located as follows:

In the Southeast Quarter of the Southwest Quarter of the Northeast Quarter of Section 11, Township 32 South, Range 19 West, Comanche County, Kansas.

A map is enclosed indicating the location of the proposed well. Records in this office indicate that you may have a well or wells in this vicinity and you are notified of receipt of this application in order that you may be fully informed of the proposed location of the applicant's point of diversion and proposed use of water. Consideration will be given to comments or other information which you desire to submit to this office **within 15 days** from the date of this letter.

If you have any questions or comments, you may also contact me at (620) 234-5311. If you call, please reference the file number so I can help you more efficiently. Mailed comments can be sent to the Stafford Field Office at 300 S. Main St. Stafford, KS 67578-1521.

Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

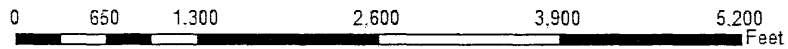
Kansas

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Stafford, Kansas 67578-1521

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Sam Brownback, Governor



Legend

- Section Corners
- Section Lines

MJM-DWR 3/21/17

Proposed Water Appropriation, File No. 49,712
11-32S-19W
Comanche County



Kansas

Department of Agriculture
Division of Water Resources

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

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www.agriculture.ks.gov
Sam Brownback, Governor

March 21, 2017

Long Ranch
C/O Marilyn Long
RR1, Box 150
Gate, OK 73844

Re: Pending Application, File No. 49,712

Dear Sir or Madam:

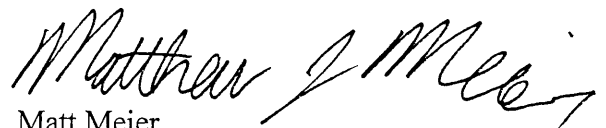
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Sincerely,



Matt Meier
Environmental Scientist
Water Appropriations Program

Enclosure

pc:

SCANNED

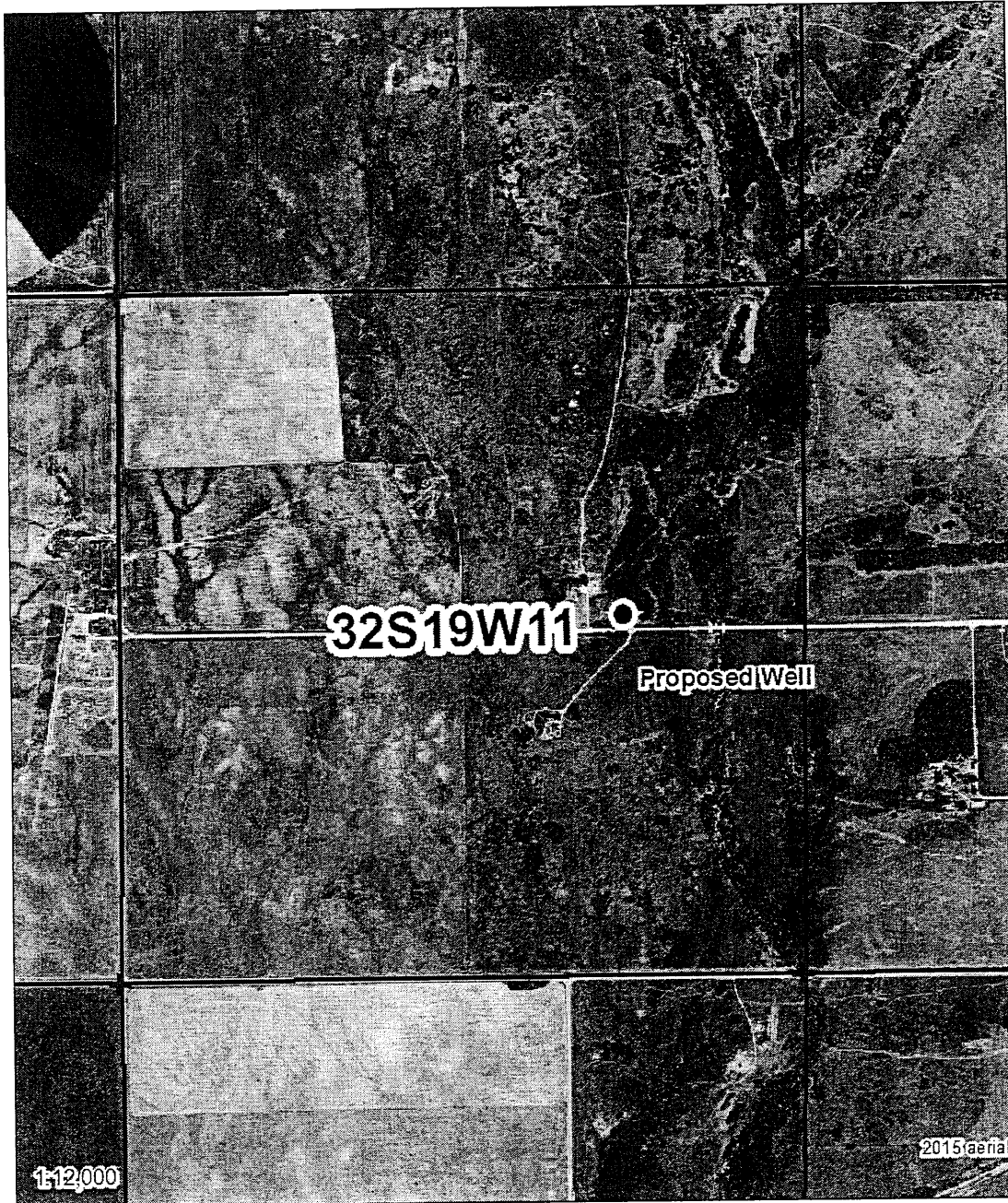
Kansas

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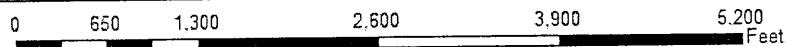
Jackie McClaskey, Secretary
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Legend

- Section Corners
- Section Lines

MJM-DWR 3/21/17



Proposed Water Appropriation, File No. 49,712
11-32S-19W
Comanche County



Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner


Kansas
Department of Agriculture
Division of Water Resources

Phone: (620) 234-5311
Fax: (620) 234-6900
www.agriculture.ks.gov
Sam Brownback, Governor

March 3, 2017

Steve Broussard
1301 Common St.
Lake Charles, LA 70601

RE: Pending Application, File No. 49,712

Dear Mr. Broussard:

We have conducted further review of your application referenced above. Based on this information, the proposed well would be located in the Southeast Quarter of the Southwest Quarter of the Northeast Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 11, more particularly described as being near a point 2,730 feet North and 1,400 feet West of the Southeast corner of said section, in Township 32 South, Range 19 West, Comanche County, Kansas. The application is requesting to appropriate 15 acre-feet of groundwater for irrigation use.

The review of the application determined that the proposed point of diversion is located in South Central Kansas Designated Unit Area BLC 65; which has been determined to be fully appropriated and is closed to new appropriations.

Therefore, it will be recommended to the Chief Engineer that pending application, File No. 49,712 be denied and dismissed to meet failure to meet K.A.R. 5-3-11(d)(4).

✓ Per K.A.R. 5-3-16(a) an application can be made for a small use exemption of five acre-feet of groundwater in a closed area. Should you wish to continue the processing of the application you will need to reduce the requested quantity to five acre-feet. After reducing the quantity please initial and date next to the reduced quantity and return the application to the Stafford Field office.

✓ Additionally, if wish continue the processing of the application the requested rate of diversion will need to be reduced to 50 gallons per minute, as required by K.A.R. 5-3-16 for small use exemptions.

We are advising you of this recommendation in order to allow you an opportunity to submit additional information to show why our evaluation should be reconsidered. You have a period of 15 days (until **March 18, 2017**) to either (1) submit additional information to our office or (2) request additional time beyond the 15 days to submit additional information. If you wish to request additional time, you must do so **in writing**, before the 15 day period expires. Such a request should state what steps are being taken to obtain the information and the amount of time you will need to supply the information to our office. If you do not request more time within the 15 day period, or if your request is not granted, the above- referenced application will be submitted to the Chief Engineer for final decision based on the recommendation stated above. Any relevant credible information submitted within the time allowed will be given due consideration, prior to final action on the application. If you have any questions, please contact me at (620) 234-5311 or at Matt.Meier@ks.gov. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,


Matt Meier
New Application Unit
Water Appropriation Program

Enclosure

pc:

Stafford Field Office
300 S. Main Street
Stafford, Kansas 67578-1521

Jackie McClaskey, Secretary
David W. Barfield, Chief Engineer
Jeff Lanterman, Water Commissioner

Kansas
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Division of Water Resources

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Sam Brownback, Governor

March 3, 2017

Steve Broussard
1301 Common St.
Lake Charles, LA 70601

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Sincerely,

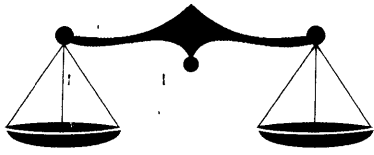


Matt Meier
New Application Unit
Water Appropriation Program

Enclosure

SCANNED

pc:



STULL, BEVERLIN, NICOLAY & HAAS, LLC

Gordon B. Stull
John D. Beverlin II
Josh V. C. Nicolay
Julie M. Haas

1320 E. First, Pratt, KS 67124
101 S. Main, STE 205, Greensburg, KS 67054
620-672-9446 FAX: 620-672-3228
www.stull-law.com lawoffice@stull-law.com

August 25, 2016

Kansas Department of Agriculture
Division of Water Resources
c/o Chief Engineer David Barfield
1320 Research Park Drive
Manhattan, KS 66502

Re: Water appropriation application – J.S. Broussard Farms, LLC

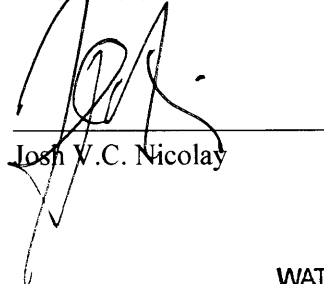
Dear Mr. Barfield,

I am the attorney for J.S. Broussard Farms, LLC and have assisted in completing the enclosed application for permit to appropriate water in Comanche County, Kansas. Enclosed with this application is the required aerial map with attached legend, an irrigation use supplement sheet and the \$200.00 application fee.

I have also included a Form WWC-5 from an unpermitted well that was recently drilled in the vicinity of requested point of diversion. Broussard Farms, LLC drilled this well in March 2016, but has not used the well since receiving notice from the Division of Water Resources to cease unpermitted operations. The enclosed application seeks a permit for a new well located roughly 1500 feet west of the unpermitted well. Broussard Farms, LLC has not drilled any test holes for the new location and thus does not have specific information for Paragraph 13 of the application. However, given the proximity of the new proposed well to the unpermitted well, my hope is that the WWC-5 will have sufficient information for the Division of Water Resources to perform its analysis.

Should you have any questions on this application or need any additional information, please do not hesitate to contact my office. I look forward to hearing from you in the future.

Very truly yours,



Josh V.C. Nicolay

/jvcn

ENCL

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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: Comanche Fraction SE 1/4 NE 1/4 SE 1/4 NE 1/4 Section Number 11 Township Number T 32 S Range Number R 19 E W

2 WELL OWNER: Last Name: Broussard First: Steve Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 183 in Coldwater 1 mile west on Ave H then North into

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

4 DEPTH OF COMPLETED WELL: 175 ft. Depth(s) Groundwater Encountered: 1) 20 ft. 2) ft. 3) ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: 20 ft.

5 Latitude: 37.275249 (decimal degrees) Longitude: 99.346503 (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: Elevation: 2041 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 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 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 8 in. to 175 ft. Diameter in. to ft. Diameter in. to ft. Casing height above land surface 36 in. Weight lbs./ft. Wall thickness or gauge No. #80

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 135 ft. to 175 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 30 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 30 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: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-20 Sand, 25-30 Clay, 30-60 Sand, 60-100 Sand & Clay mix, 100-160 Sand, 160-175 Red shale with clay mixed in. Includes stamps: WATER RESOURCES RECEIVED, SEP 29 2016, UNACCEPTABLE FOR PRIORITY, SEP 06 2016, KS DEPT OF AGRICULTURE.

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) 09/17/2016 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 665. This Water Well Record was completed on (mo-day-year) 04/19/2016 under the business name of Pratt Well Service.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-3565. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212

BROUSSARD FARMS, LLC IRRIGATION USE SUPPLEMENT

- 2(d)(i) Not anticipating tailwater with proposed use. Will have 200-300 gallons of water drainage for system winterization that will drain into soil.
- 2(d)(ii)(4) See attached literature on Nelson Big Gun 100 series sprinkler
- 2(e) Perennial forage crops for wildlife, primarily alfalfa and sainfoin. Will possibly rotate in chicory, clover and turnip.
- 2(f) - Anticipate heavy irrigation initially to establish alfalfa/sainfoin foodplot, with multiple weekly waterings. Once foodplot is established, will irrigate 1-2 times/week to supplement monthly rainfall, and will determine need to irrigate based on actual rainfall of the prior month. Will only mow/harvest as needed to encourage animal foraging, not seeking to regularly harvest irrigated crop for cattle/domestic forage.

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Northeast Quarter (NE/4) of Section Twelve (12), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas LESS Cade's Addition to the City of Coldwater, Kansas, and EXCEPT the following described 4 tracts:

A Part of the NE/4 12-32-19 described as follows: Beginning at a point on a line with the south side and a distance of 66.8 feet West of the Southwest corner of Block 10 in Cade's First Addition to the City of Coldwater, Kansas, at a concrete monument; thence North parallel to the West line of said Block 10 a distance of 150 feet to a concrete monument; thence West at right angles with the West line of said Block 10 a distance of 118.5 feet to a concrete monument; thence South parallel to said West line of said Block 10 a distance of 150 feet to a concrete monument; thence East a distance of 118.5 feet to the point of beginning;

A tract of land in the NE/4 12-32-19 described as follows: Beginning at a point on the South line of said NE/4 of Section 12 at the Southeast corner of the Coldwater City Power House site, and running North along the East side of said power house site 150 feet, thence East at right angles 50 feet, thence South at right angles 150 feet to the South line of said NE/4 of Section 12; thence West along the South side of said NE/4 of Section 12 for 50 feet to the place of beginning;

A tract of land out of the W/2 of the NE/4 of Section 12-32-19 described as follows: Commencing at a point 1302.5 feet East and 72.50 feet North of the Southwest corner of the said W/2 NE/4; thence Northerly 50 feet; thence West with an inside angle of 90°22' a distance of 50 feet; thence South with an inside angle 89°38' a distance of 50 feet; thence East with an inside angle of 90°22' a distance of 50 feet to the point of beginning;

A part of the E/2 of the NE/4 of Section 12-32-19 described as follows: Beginning at the northeast corner of Cade's First Addition to the City of Coldwater; thence West along the North line of said Cade's First Addition to the West line of the East half of the Northeast Quarter of the Northeast Quarter (E/2 NE/4 NE/4) of Section 12; thence North along said West line to the North line of said Section 12; thence East to the East line of said Section 12; thence South to the place of beginning.

For the sum of: Ten Dollars and Other Valuable Consideration

EXCEPT AND SUBJECT TO: Easements, rights of way, oil and gas leases, mineral reservations and restrictions of record, if any.

Dated this 1st day of May, 2012.

Kansas TEC Holdings LLC
By Title Exchange Company LLC
Its sole member

By: Sandra B. McMorris
Sandra B. McMorris, Authorized Agent

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COPY

Entered in transfer record this
7 day of May, 2012
Alise Smith Lull
Comanche County Clerk

20120754
STATE OF KANSAS, COMANCHE COUNTY
This instrument was filed for Record on
5/7/2012 at 1:55 PM and duly recorded
Book 59 Page 909 Fees \$16.00
Guyneth Snyder, Register of Deeds_{gs}

WARRANTY DEED
Kansas Statutory Form

GRANTOR/SELLER: Kansas TEC Holdings LLC, a Louisiana limited liability company

CONVEY AND WARRANT TO:

GRANTEE/BUYER: J. S. Broussard Farms, LLC

All the following described Real Estate in the County of Comanche and the State of Kansas, to-wit:

SURFACE AND SURFACE INTEREST ONLY IN AND TO THE FOLLOWING DESCRIBED PROPERTY:

Southeast Quarter (SE/4) of Section One (1), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas, EXCEPT a tract in said SE/4 1-32-19 described as follows: Beginning at a point 44.0 feet West of the Southeast corner of Section 1, Township 32 South, Range 19 West on the West right-of-way line of U.S. Highway 183, thence North along said right-of-way 350.0 feet, thence West 250.0 feet, thence South 350.0 feet, thence East 250.0 feet to point of beginning;

Southwest Quarter (SW/4) of Section One (1), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas;

Lots One (1), Two (2), Three (3) and Four (4) and the South Half of the North Half (S/2 N/2) also described as the North Half (N/2) of Section Two (2), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas;

Southeast Quarter (SE/4) of Section Two (2), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas;

Northeast Quarter (NE/4) of Section Eleven (11), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas;

Northwest Quarter (NW/4) of Section Twelve (12), Township Thirty-two (32) South, Range Nineteen (19) West of the 6th P.M., Comanche County, Kansas;

The West Half (W/2) of Block One (1) and All of Blocks Two (2), Three (3), Four (4) and Five (5) and Lots Thirteen (13) through Twenty-four (24), inclusive in Block Eight (8), and All of Blocks Nine (9), and Ten (10) all in Cades Addition to the City of Coldwater, Comanche County, Kansas;

Pursuant to K.S.A. 79-1437e(a)
A real estate validation questionnaire is
not required due to exemption # 3

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State of Louisiana, ~~County~~ ^{Parish} of East Baton Rouge

BE IT REMEMBERED, That on this 1st day of May, 2012, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Sandra B. McMorris, authorized agent for Title Exchange Company LLC sole member of Kansas TEC Holdings LLC, who is personally known to me to be the same person who executed the foregoing deed, and duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal on the day and year last above written.


Notary Public **LISA K. HAZLIP**
NOTARY ID NO. 8996

My appt. expires: At Death

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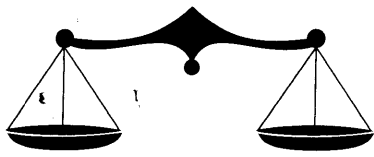
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911.

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Gordon B. Stull
John D. Beverlin II
Josh V. C. Nicolay
Julie M. Haas

1320 E. First, Pratt, KS 67124
101 S. Main, STE 205, Greensburg, KS 67054
620-672-9446 FAX: 620-672-3228
www.stull-law.com lawoffice@stull-law.com

September 23, 2016

Kansas Department of Agriculture
Division of Water Resources
c/o Chief Engineer David Barfield
1320 Research Park Drive
Manhattan, KS 66502

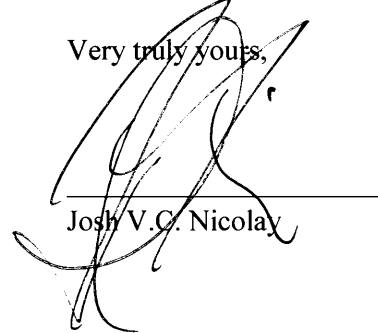
Re: Water appropriation application – J.S. Broussard Farms, LLC

Dear Mr. Barfield,

Enclosed is the application of J.S. Broussard Farms, LLC for re-filing with the original signature page, along with a WWC-5 for a P/A domestic well that was drilled within 300 of the proposed well application.

Should you have any questions on this application or need any additional information, please do not hesitate to contact my office. I look forward to hearing from you in the future.

Very truly yours,

A handwritten signature in black ink, appearing to read "Josh V.C. Nicolay", written over a horizontal line.

Josh V.C. Nicolay

/jvcn

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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

September 30, 2016

STEVE BROUSSARD
1301 COMMON ST
LAKE CHARLES LA 70601

FILE COPY

RE: Application
File No. 49712

Dear Sir or Madam:

Your application for permit to appropriate water in 11-32S-19W in Comanche 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,

A handwritten signature in cursive script that reads "Brent A. Turney".

Brent A Turney, P.G.
Change Application Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: STAFFORD Field Office
GMD

SCANNED

DATA ENTRY SYSTEM ID NUMBER SHEET

FILE NUMBER 49712

APPLICANT		PDIV ID	BATTERY ID
PERSON ID & SEQ #		<u>85649</u>	
<u>65192</u>	<u>1</u>		

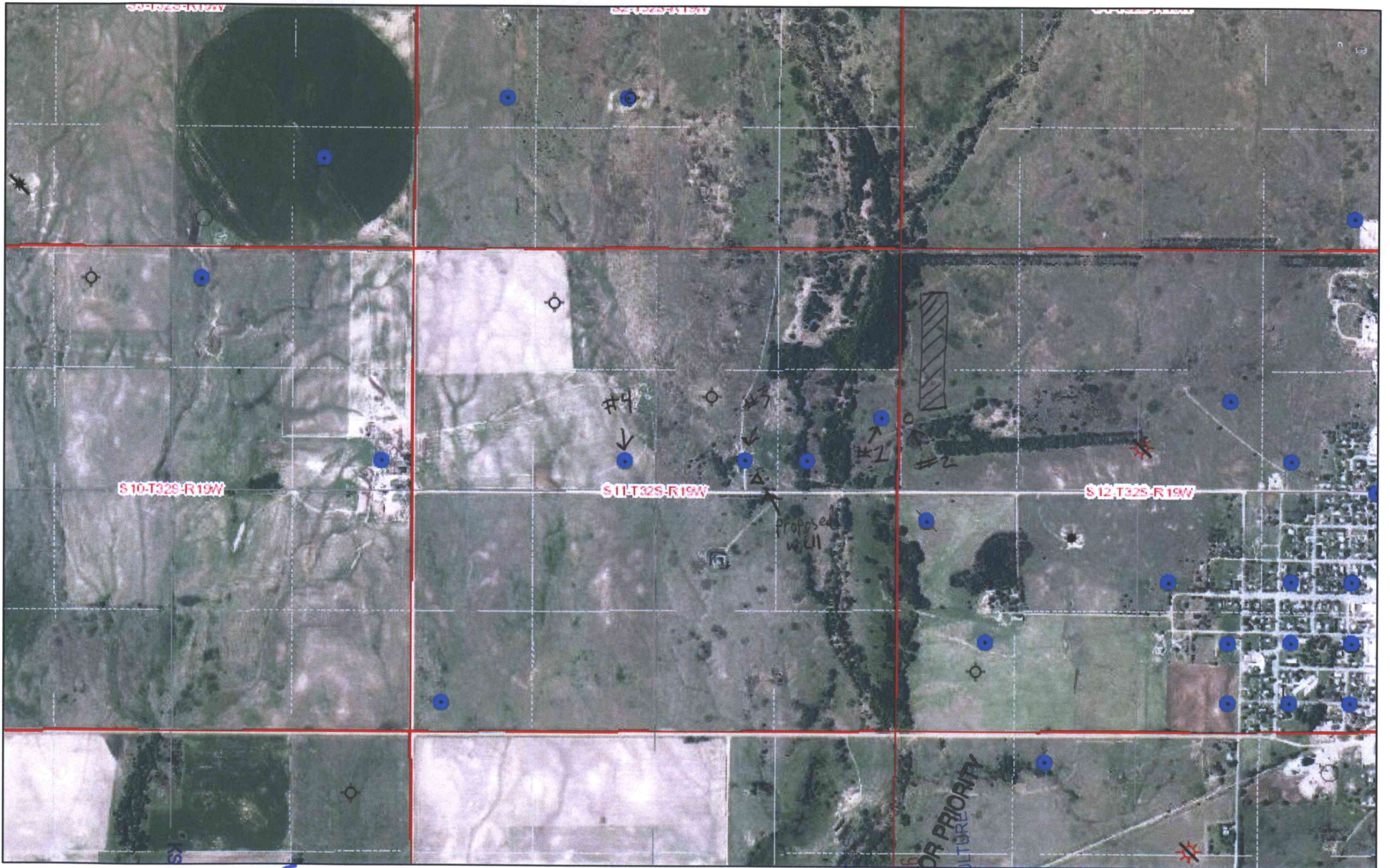
LANDOWNER		PUSE ID
PERSON ID & SEQ #		<u>68059</u>
<u>65192</u>	<u>1</u>	

WATER USE CORRESPONDENT

PERSON ID & SEQ #

65192 1

Broussard Farms, LLC



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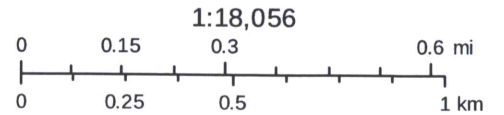
September 1, 16

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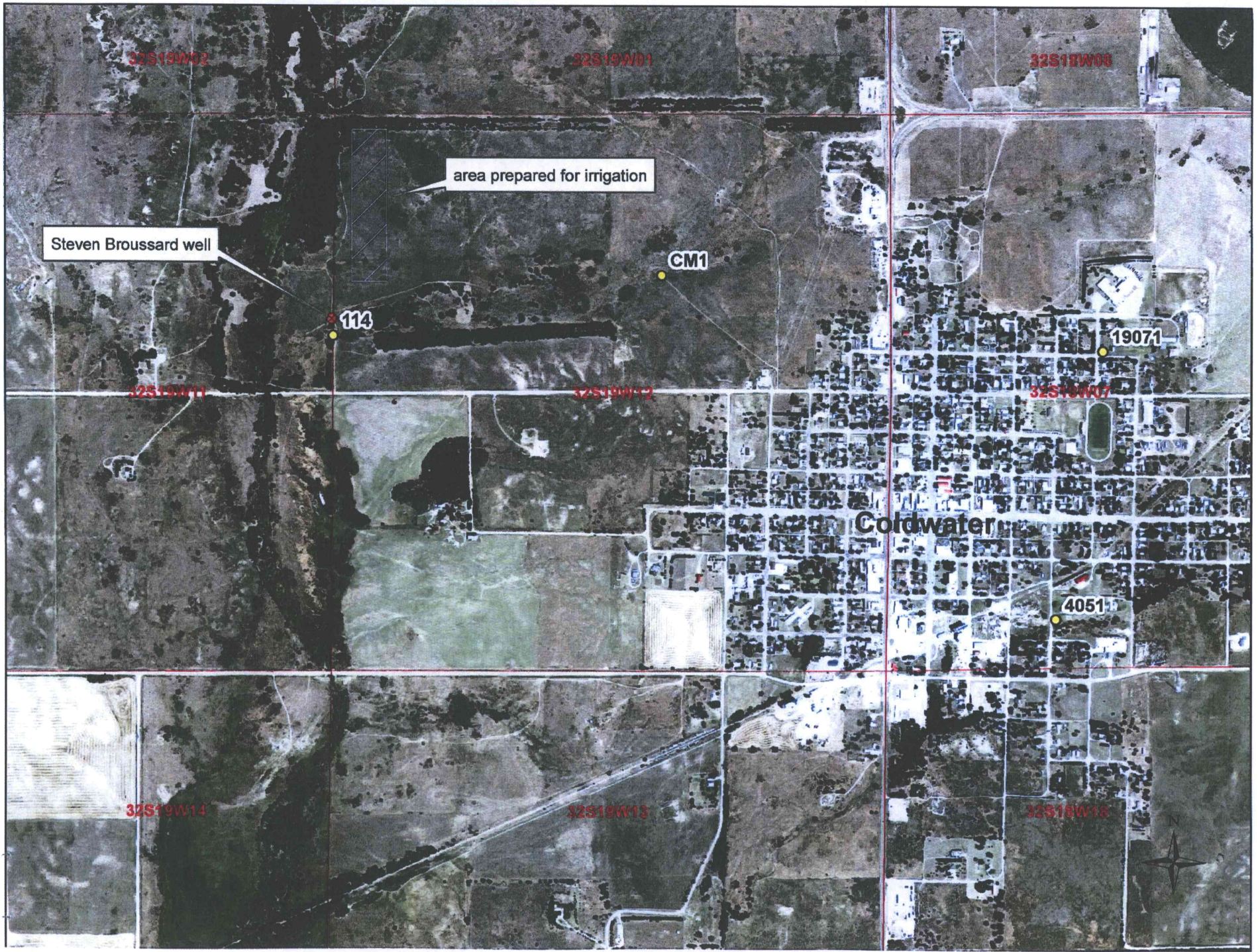
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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

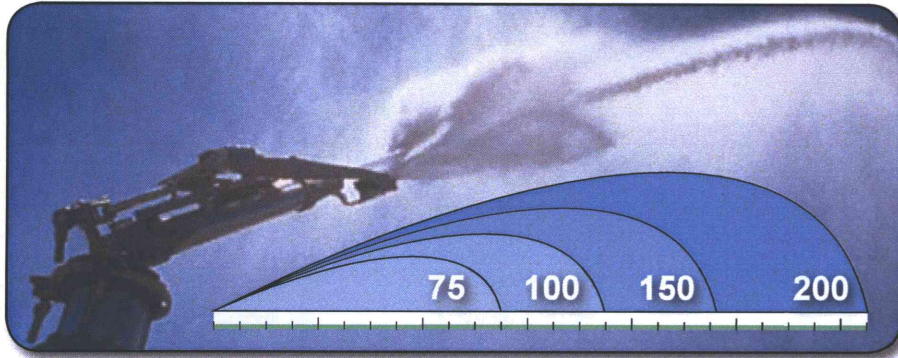
Kansas Geological Survey
<http://maps.kgs.ku.edu/otgas>

49/42







49,712

BIG GUN® OPTIONS AVAILABLE



TO ORDER BIG GUNS® SPECIFY THE FOLLOWING:
 Model No., Trajectory, Connection Size & Type, Nozzle Size & Type, Optional Coatings (Anodized or Anodized and Powder Coated) NOTE: Extended lead time may be necessary for large quantities of anodized or anodized and powder coated products.
 Specification Example:
 SR100 (24°), 2" FNPT, 100T-0.8"

	75 SERIES		100 SERIES			150 SERIES			200 SERIES	
PERFORMANCE	30-160 GPM (6.8-36.3 M ³ /H)  25-80 PSI (1.75-6 Kg/cm ²)		50-300 GPM (10-70 M ³ /H)  40-110 PSI (3.5-8 Kg/cm ²)			100-630 GPM (23-150 M ³ /H)  50-120 PSI (3.5-9 Kg/cm ²)			250-1200 GPM (55-275 M ³ /H)  60-130 PSI (4-9 Kg/cm ²)	
MODEL & TRAJECTORY	Full Circle F75	Part Circle SR75	Full Circle F100	Part Circle SR100	Part Circle SRA100	Full Circle F150	Part Circle SR150	Part Circle SRA150	Full Circle F200	Part Circle SR200
	21°, 24°	18°, 21°, 24°, 43°	18°, 21°, 24°, 43°	15-45° Adjustable		21°, 24°	21°, 24°, 27°, 43°	15-45° Adjustable	21°, 24°, 27°	
NOZZLE OPTIONS	Not Available		100T (Specify Size)			150T (Specify Size)			200T (Specify Size)	
	TR75 (Specify Size)		100TR (Specify Size)		NA for SRNV	150TR (Specify Size)			Not Available	
	Not Available		100R (Includes Set of Rings)		NA for SRNV	150R (Includes Set of Rings)			200R (Includes Set of Rings)	
SPECIAL OPTIONS	Not Available		Anodized & Powder Coated, Vaneless Range Tube*			Anodized & Powder Coated, Stainless Steel (SRA150 N/A), Vaneless Range Tube			Anodized & Powder Coated	
ADD-ON KITS	HD Lower Bearing, 12° Wedge Kit, Counterbalance Kit, Stream Straightener Vane		Low-Pressure Drive Vane Kit, Counterbalance Kit, Secondary Nozzle Kit, 12° Wedge Kit, Stream Straightener Vane			Counterbalance Kit, Secondary Nozzle Kit, Stream Straightener Vane			Secondary Nozzle Kit (standard), 12° Wedge Kit (SR200 only)	
MOUNTING DETAILS	Fits QC** & 2" 800 Series Valve		Fits QC** & 2" 800 Series Valve (QC NA for SRNV100)			Substantial thrust on riser, use 3" valve minimum			Substantial thrust on riser, use 4" valve minimum	
CONNECTION OPTIONS	1 1/2" or 2" FNPT or FBSP ANSI/DIN Nelson or Euro Flange		2" FNPT or FBSP, 2 1/2" FNPT ANSI/DIN, Nelson or Euro Flange		2" FNPT or FBSP for SRNV	Nelson, Euro or ANSI/DIN Flange Also, Nelson Flange to Female Adapters			Nelson, Euro or ANSI/DIN Flange Also, Nelson Flange to Female Adapters	

*Vaneless Range Tube option is for wastewater applications containing hair, straw, etc.

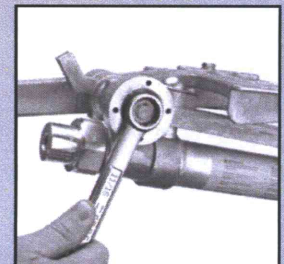
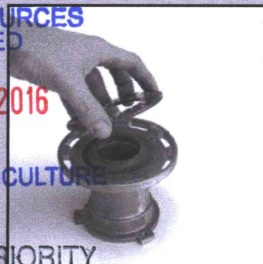
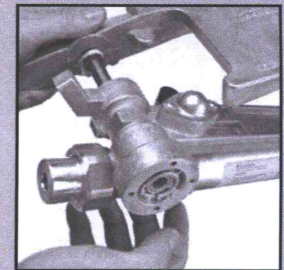
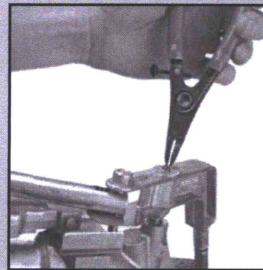
** The "Quick Coupling Valve" inlet is available in both 2" and 3" FNPT and FBSP for connection to the piping system. The "Quick Coupling Key" outlet is available in 2" FNPT, 2" FBSP, and Nelson Flange Connection for connection to the Big Gun.

BIG GUN® FLANGE DETAILS

	75 & 100 SERIES	150 SERIES	200 SERIES
NELSON FLANGE	<p>5/16-18 UNC 2B Threaded Through</p> <p>Use 5/16-18 Bolts Connects to 2" Nelson Flange Bolt Pattern</p>	<p>.406" (10.3mm) Hole Drilled Through</p> <p>Use 3/8-16 Bolts & Nuts or M10 Bolts & Nuts Connects to 3" Nelson Flange Bolt Pattern</p>	<p>3/8-16 UNC Thread .75" (19mm) Deep</p> <p>Use 3/8-16 Bolts & Nuts Connects to 4" Nelson Flange Bolt Pattern (F200 has same bolt pattern as SR150.)</p>
ANSI/DIN COMPATIBLE FLANGE	<p>1/2-13 UNC 2B Threaded Through</p> <p>Use 1/2-13 Bolts Connects to 2" ANSI or 50mm DIN Flanges</p>	<p>1/2-13 UNC 2B Threaded Through</p> <p>Use 1/2-13 Bolts Connects to 3" ANSI or 80mm DIN Flanges</p>	<p>1/2-13 UNC 2B Threaded Through</p> <p>Use 1/2-13 Bolts Connects to 4" ANSI or 100mm DIN Flanges</p>
EURO FLANGE	<p>9.1mm Hole Drilled Through</p> <p>Use M8 Bolts & Nuts Connects to European Traveler Flange</p>	<p>M8 x 1.25 - 6H Threaded Through</p> <p>Use M8 x 1.25 Bolts Connects to European Traveler Flange</p>	<p>M8 x 1.25 - 6H Thread .75" (19mm) Deep</p> <p>Use M8 x 1.25 Bolts Connects to European Traveler Flange</p>

Contact the factory or go to www.nelsonirrigation.com for Parts Lists, Operation & Maintenance Guides, Repair Kits, Dimensional Drawings, Add-on Kit literature & Thrust Force information.

Nelson Big Guns
are easy to repair
with readily
available parts.



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the original BIG GUN® SPRINKLER

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BIG GUN® PERFORMANCE (U.S. UNITS)

Flow and diameter (feet) information at various pressures with different nozzle sizes. (See information at bottom of page 11.)

75 TAPER RING NOZZLE — 24° TRAJECTORY

PSI	0.4"		0.45"		0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
25*	—	—	—	—	—	—	42	146	50	155	59	161	69	167	80	174	91	182
30*	—	—	—	—	37	158	45	158	55	165	64	172	75	182	87	187	99	192
35	—	—	32	154	40	164	49	172	59	178	69	191	81	196	93	202	106	208
40	27	149	35	160	43	171	52	180	63	190	74	198	87	204	98	213	112	221
45	29	155	37	167	46	180	56	189	67	198	79	206	91	214	104	223	118	230
50	30	161	39	174	48	186	59	195	70	203	83	212	95	220	109	230	123	237
55	32	165	41	179	50	193	62	203	74	213	87	221	100	230	115	239	130	247
60	33	169	42	184	53	198	64	208	77	220	91	228	104	237	120	245	136	254
65	35	172	44	189	55	205	67	216	80	227	95	237	109	247	125	254	142	263
70	36	175	45	194	57	210	69	221	83	232	98	243	113	254	129	260	147	270
75	37	179	47	201	59	217	72	228	86	239	101	250	117	261	134	268	153	277
80	39	182	49	207	61	222	74	234	89	244	105	256	121	266	138	274	158	283

*Operating at pressures above 30 PSI provides better performance.

100 TAPER BORE NOZZLE — 24° TRAJECTORY

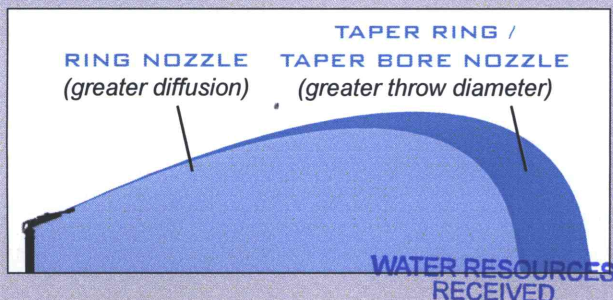
PSI	0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"		0.85"		0.9"		1.0"	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
40	47	191	57	202	66	213	78	222	91	230	103	240	118	250	134	256	152	262	—	—
50	50	205	64	215	74	225	87	235	100	245	115	256	130	265	150	273	165	280	204	300
60	55	215	69	227	81	240	96	250	110	260	126	270	143	280	164	288	182	295	224	316
70	60	225	75	238	88	250	103	263	120	275	136	283	155	295	177	302	197	310	243	338
80	64	235	79	248	94	260	110	273	128	285	146	295	165	305	189	314	210	325	258	354
90	68	245	83	258	100	270	117	283	135	295	155	306	175	315	201	326	223	335	274	362
100	72	255	87	268	106	280	123	293	143	305	163	316	185	325	212	336	235	345	289	372
110	76	265	92	278	111	290	129	303	150	315	171	324	195	335	222	344	247	355	304	380

150 TAPER BORE NOZZLE — 24° TRAJECTORY

PSI	0.7"		0.8"		0.9"		1.0"		1.1"		1.2"		1.3"		1.4"	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
50	100	250	130	270	165	290	205	310	255	330	300	345	350	360	408	373
60	110	265	143	285	182	305	225	325	275	345	330	365	385	380	446	396
70	120	280	155	300	197	320	245	340	295	360	355	380	415	395	483	412
80	128	290	165	310	210	335	260	355	315	375	380	395	445	410	516	427
90	135	300	175	320	223	345	275	365	335	390	405	410	475	425	547	442
100	143	310	185	330	235	355	290	375	355	400	425	420	500	440	577	458
110	150	320	195	340	247	365	305	385	370	410	445	430	525	450	605	471
120	157	330	204	350	258	375	320	395	385	420	465	440	545	460	632	481

200 TAPER BORE NOZZLE — 27° TRAJECTORY

PSI	1.05"		1.1"		1.2"		1.3"		1.4"		1.5"		1.6"		1.75"		1.9"	
	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.	GPM	DIAM. FT.
60	250	345	285	355	330	375	385	390	445	410	515	430	585	445	695	470	825	495
70	270	360	310	380	355	395	415	410	480	430	555	450	630	465	755	495	890	515
80	290	375	330	395	380	410	445	430	515	450	590	470	675	485	805	515	950	535
90	310	390	350	410	405	425	475	445	545	465	625	485	715	505	855	535	1005	555
100	325	400	370	420	425	440	500	460	575	480	660	500	755	520	900	550	1060	575
110	340	410	390	430	445	450	525	470	605	495	695	515	790	535	945	565	1110	590
120	355	420	405	440	465	460	545	480	630	505	725	530	825	550	985	580	1160	605
130	370	425	425	445	485	465	565	485	655	515	755	540	860	560	1025	590	1210	620



See opposite page for nozzle descriptions.

RING NOZZLE TAPER BORE NOZZLE TAPER/RING NOZZLE



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