

NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

THE STATE  OF KANSAS

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

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11:43
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File Number 49,712
This item to be completed by the Division of Water Resources.

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SEP 26 2016
2:00
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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.)

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 _____ (stream)
OR groundwater in Cimarron Basin (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 | (YES) <input checked="" type="checkbox"/> (NO) <input type="checkbox"/> | Use <u>FR</u> | Source <u>S</u> | County <u>CM</u> | By <u>AW</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. 14, 2016.

[Handwritten Signature]
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

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- 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 constucting 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.

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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)

[Signature]
(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Josh U.C. Nicolay Attorney/Gulland Eveston, LLC Date: 9/19/2016
(office/title)

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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 7th day of August, 2016.
(month) (year)


(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by Josh V.C. Nicolay Attorney Date: 8/25/2016
#25119 (office/title)

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SCANNER

WATER WELL RECORD Form WWC-5

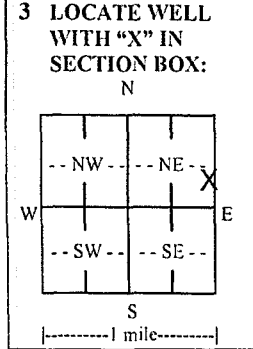
Original Record Correction Change in Well Use

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: Brousard First: Steve Street or Rural Address where well is located: 183 in Coldwater 1 mile west on Ave H then North into



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 175 ft. WELL'S STATIC WATER LEVEL: 20 ft.

5 Latitude: 37.275249 Longitude: 99.346503 Datum: NAD 27 Source for Latitude/Longitude: GPS

7 WELL WATER TO BE USED AS: 1. Domestic: Livestock 2. Irrigation 3. Feedlot 4. Industrial 5. Public Water Supply 6. Dewatering 7. Aquifer Recharge 8. Monitoring 9. Environmental Remediation 10. Oil Field Water Supply 11. Test Hole 12. Geothermal 13. Other

Was a chemical/bacteriological sample submitted to KDHE? No Water well disinfected? Yes

8 TYPE OF CASING USED: PVC CASING JOINTS: Glued Casing diameter: 8 in. to 175 ft. Diameter: 36 in. to 175 ft. Weight: 36 lbs./ft. Wall thickness or gauge No. 580

9 GROUT MATERIAL: Bentonite Grout Intervals: From 0 ft. to 30 ft. Nearest source of possible contamination: Other (Specify)

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows show depth intervals from 0 to 175 ft with lithology like Sand, Clay, Sand & Clay mix, Red shale with clay mixed in.

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) 03/17/2016 and this record is true to the best of my knowledge and belief.

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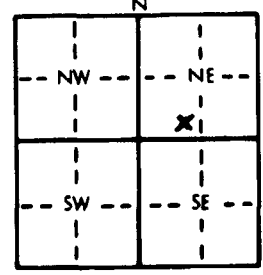
WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: Fraction SE 1/4 SW 1/4 NE 1/4 Section Number 11 Township Number T 32 S Range Number R 19 E/W

Distance and direction from nearest town or city street address of well if located within city?
From Coldwater, 3/4 WEST

2 WATER WELL OWNER: RUSSELL HARNISS
RR#, St. Address, Box #: Coldwater, Ks
City, State, ZIP Code: 75
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: 75 ft. ELEVATION: _____ ft.
 Depth(s) Groundwater Encountered 1. _____ ft. 2. _____ ft. 3. _____ ft.
 WELL'S STATIC WATER LEVEL: 30 ft. below land surface measured on mo/day/yr _____ ft.
 Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
 Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 Bore Hole Diameter _____ in. to _____ ft., and _____ in. to _____ ft.
 WELL WATER TO BE USED AS:
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No _____; If yes, mo/day/yr sample was submitted _____
 Water Well Disinfected? Yes No _____

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 7 Fiberglass Threaded _____
 Blank casing diameter 5 in. to 7.5 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface -48 in., weight _____ lbs./ft. Wall thickness or gauge No. _____
 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) _____
 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 _____ ft. to _____ ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From _____ ft. to _____ 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 4 ft. to 12 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
 Direction from well? South How many feet? 50'

| FROM | TO | LITHOLOGIC LOG | FROM | TO | PLUGGING INTERVALS |
|------|----|----------------|------|----|--------------------|
| 0 | 4 | CEMENT PIT | | | |
| 4 | 12 | BENTONITE | | | |
| 12 | 75 | C/OLO SAND | | | |

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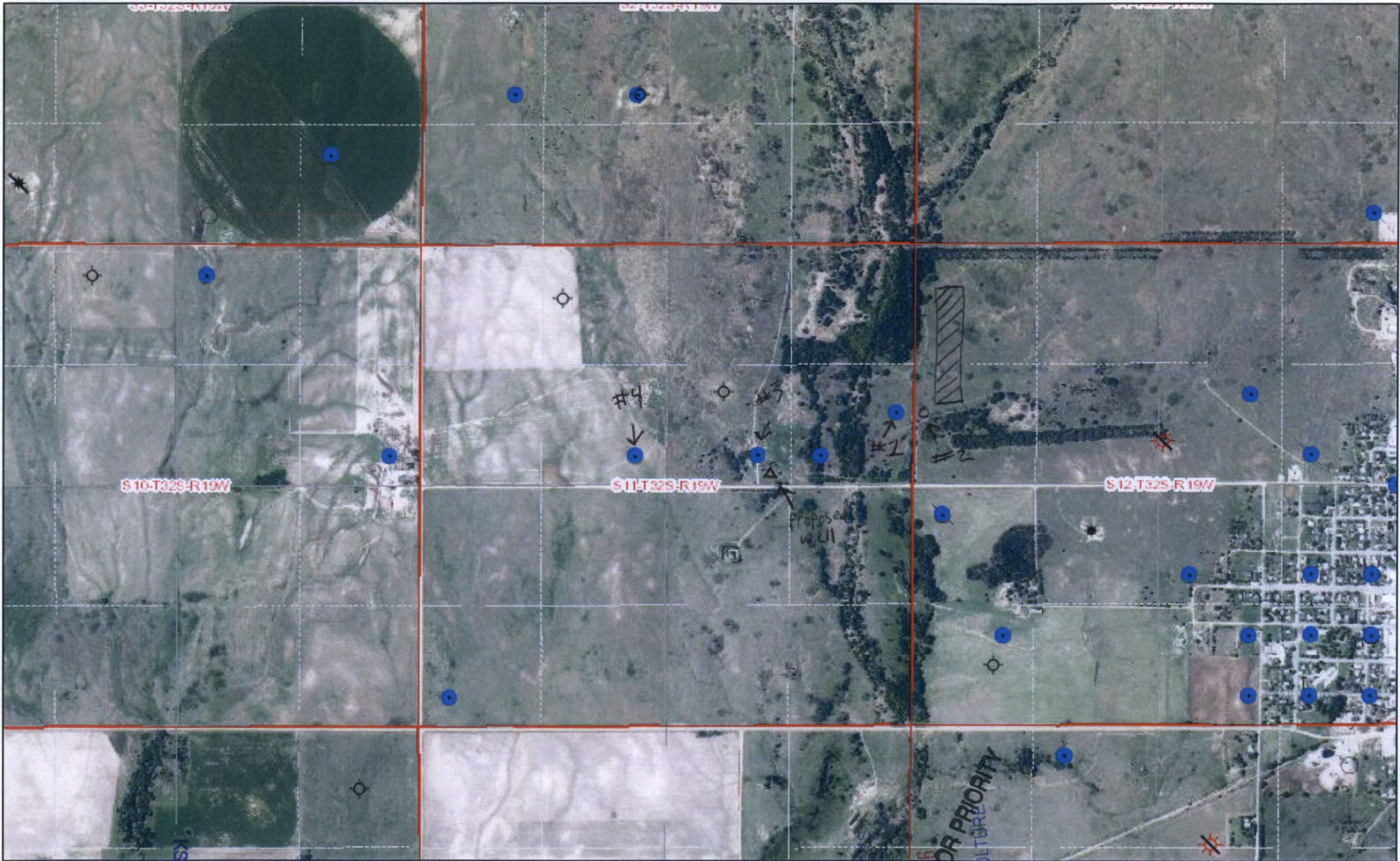
PLUGGED

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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) 6-20-95 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 411 This Water Well Record was completed on (mo/day/yr) 6-26-95 under the business name of LEH'S WATER WELL by (signature) Ron Loh

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, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

Broussard Farms, LLC



September 1, 16

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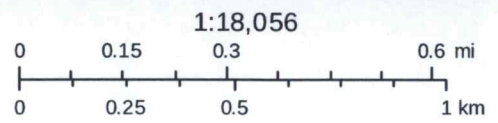
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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

2/1/16

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

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**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 | | | | | | 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 | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

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.

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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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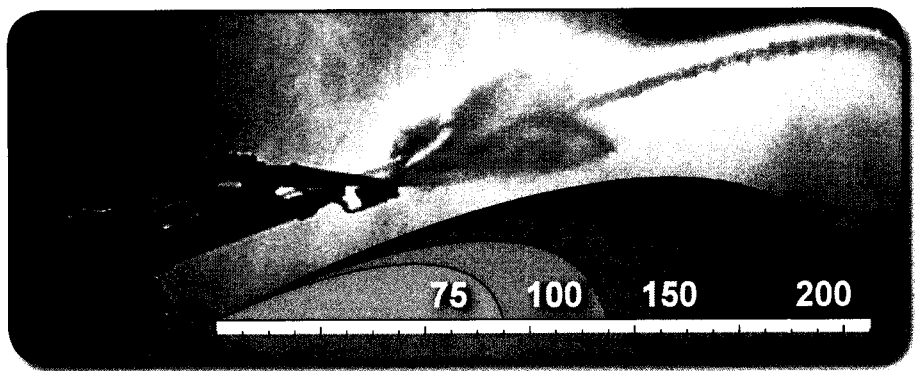
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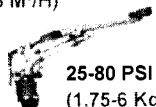
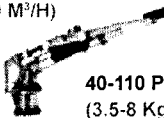
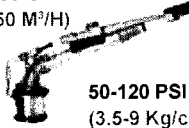
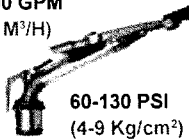
SCANNED

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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 Application to the Big Gun.

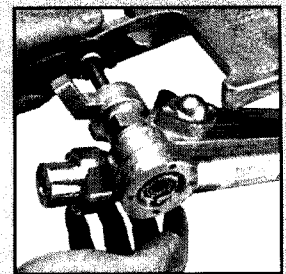
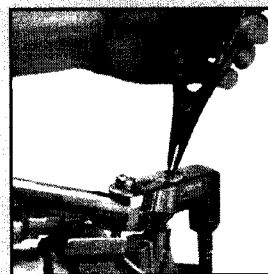
WATER RESOURCES RECEIVED

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> |
| ANSIDIN 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> |

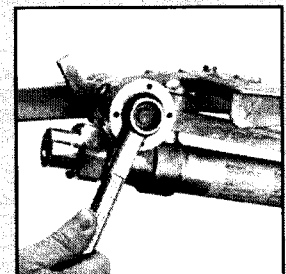
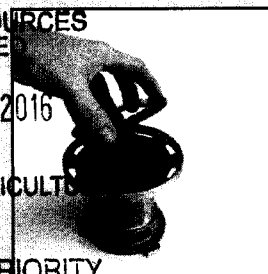
Contact the factory or go to www.nelsonirrigation.com for Parts Lists, Operation & Maintenance Guides, Repair Kits, Dimensional Drawings, Add-on Kit literature & Thrust Force information.

Nelson Big Guns
are easy to repair
with readily
available parts



WATER RESOURCES
RECEIVED

SEP 29 2016



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

KS DEPT OF AGRICULTURE

the original **BIG GUN® SPRINKLER**

SCANNED

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

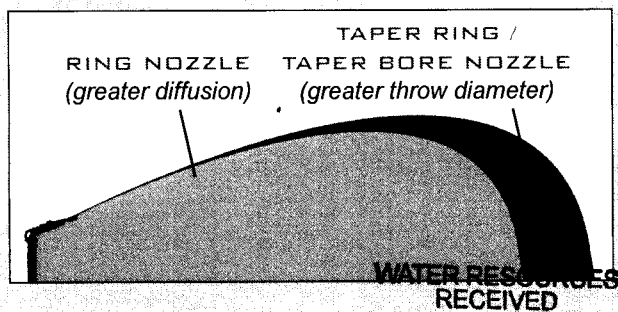
| PSI | 0.5" | | 0.55" | | 0.6" | | 0.65" | | 0.7" | | 0.75" | | 0.8" | | 0.85" | | 0.9" | | 1.0" | |
|-----|------|-----------|-------|-----------|------|-----------|-------|-----------|------|-----------|-------|-----------|------|-----------|-------|-----------|------|-----------|------|-----------|
| | 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

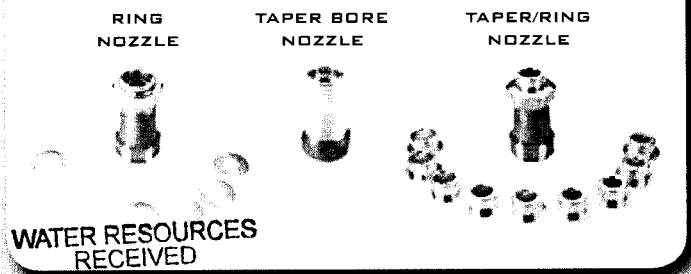
| PSI | 0.7" | | 0.8" | | 0.9" | | 1.0" | | 1.1" | | 1.2" | | 1.3" | | 1.4" | |
|-----|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|
| | GPM | DIAM. FT. | GPM | DIAM. FT. | GPM | DIAM. FT. | GPM | 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 | 365 | 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.



BIG GUN® PERFORMANCE (METRIC)

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

75 TAPER RING NOZZLE TR75 — 24° TRAJECTORY

| Kg/cm² | 10.2 mm | | | 11.4 mm | | | 12.7 mm | | | 14.0 mm | | | 15.2 mm | | | 16.5 mm | | | 17.8 mm | | | 19.1 mm | | | 20.3 mm | | |
|--------|---------|-----|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|
| | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M |
| 1.75* | — | — | — | — | — | — | — | — | 2.64 | 9.5 | 44 | 3.17 | 11.4 | 48 | 3.72 | 13.4 | 49 | 4.30 | 15.5 | 51 | 4.91 | 17.7 | 54 | 5.59 | 20.1 | 56 | |
| 2.00* | — | — | — | — | — | — | 2.33 | 8.4 | 48 | 2.82 | 10.2 | 48 | 3.39 | 12.2 | 51 | 3.98 | 14.3 | 52 | 4.59 | 16.5 | 56 | 5.25 | 18.9 | 58 | 5.97 | 21.5 | 59 |
| 2.50 | — | — | — | 2.11 | 7.6 | 47 | 2.61 | 9.4 | 50 | 3.16 | 11.4 | 53 | 3.79 | 13.6 | 55 | 4.45 | 16.0 | 58 | 5.14 | 18.5 | 60 | 5.87 | 21.1 | 62 | 6.68 | 24.0 | 64 |
| 3.00 | 1.83 | 6.6 | 47 | 2.32 | 8.3 | 50 | 2.86 | 10.3 | 53 | 3.46 | 12.4 | 57 | 4.15 | 14.9 | 59 | 4.88 | 17.6 | 61 | 5.63 | 20.3 | 63 | 6.43 | 23.1 | 66 | 7.32 | 26.3 | 69 |
| 3.50 | 1.98 | 7.1 | 49 | 2.50 | 9.0 | 52 | 3.09 | 11.1 | 57 | 3.74 | 13.4 | 60 | 4.48 | 16.1 | 62 | 5.27 | 19.0 | 64 | 6.08 | 21.9 | 67 | 6.95 | 25.0 | 70 | 7.90 | 28.4 | 73 |
| 4.00 | 2.11 | 7.6 | 50 | 2.67 | 9.6 | 54 | 3.30 | 11.9 | 59 | 3.99 | 14.4 | 62 | 4.79 | 17.2 | 65 | 5.63 | 20.3 | 67 | 6.50 | 23.4 | 71 | 7.43 | 26.7 | 73 | 8.45 | 30.4 | 76 |
| 4.50 | 2.24 | 8.1 | 52 | 2.84 | 10.2 | 57 | 3.50 | 12.6 | 62 | 4.24 | 15.2 | 66 | 5.08 | 18.3 | 68 | 5.97 | 21.5 | 71 | 6.89 | 24.8 | 75 | 7.88 | 28.4 | 78 | 8.96 | 32.3 | 80 |
| 5.00 | 2.36 | 8.5 | 53 | 2.99 | 10.8 | 60 | 3.69 | 13.3 | 64 | 4.46 | 16.1 | 68 | 5.35 | 19.3 | 70 | 6.30 | 22.7 | 74 | 7.26 | 26.1 | 78 | 8.30 | 29.9 | 80 | 9.45 | 34.0 | 84 |
| 5.50 | 2.48 | 8.9 | 55 | 3.13 | 11.3 | 62 | 3.87 | 13.9 | 66 | 4.68 | 16.9 | 70 | 5.61 | 20.2 | 73 | 6.60 | 23.8 | 77 | 7.62 | 27.4 | 81 | 8.71 | 31.3 | 83 | 9.90 | 35.7 | 86 |
| 6.00 | 2.59 | 9.3 | 56 | 3.27 | 11.8 | 63 | 4.04 | 14.6 | 68 | 4.89 | 17.6 | 72 | 5.86 | 21.1 | 74 | 6.90 | 24.8 | 79 | 7.96 | 28.6 | 84 | 9.09 | 32.7 | 85 | 10.3 | 37.2 | 87 |

*Operating at pressures above 2 Kg/cm² provides better performance.

100 TAPER BORE NOZZLE — 24° TRAJECTORY

| Kg/cm² | 12.7 mm | | | 14.0 mm | | | 15.2 mm | | | 16.5 mm | | | 17.8 mm | | | 19.1 mm | | | 20.3 mm | | | 21.5 mm | | | 22.9 mm | | | 25.4 mm | | |
|--------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|
| | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M |
| 3.0 | 3.00 | 10.8 | 59.5 | 3.73 | 13.4 | 62.6 | 4.33 | 15.6 | 66.1 | 5.09 | 18.3 | 66.8 | 5.84 | 21.0 | 71.4 | 6.71 | 24.1 | 74.5 | 7.64 | 27.5 | 77.5 | 8.74 | 31.5 | 79.5 | 9.67 | 34.8 | 81.4 | 11.9 | 42.8 | 88.1 |
| 4.0 | 3.40 | 12.2 | 64.3 | 4.25 | 15.3 | 67.8 | 5.00 | 18.0 | 71.8 | 5.86 | 21.1 | 74.8 | 6.82 | 24.6 | 77.8 | 7.73 | 27.8 | 81.0 | 8.66 | 31.2 | 82.8 | 10.1 | 36.2 | 86.4 | 11.2 | 40.4 | 88.6 | 13.8 | 49.5 | 94.8 |
| 5.0 | 3.79 | 13.6 | 69.0 | 4.72 | 17.0 | 72.7 | 5.59 | 20.1 | 76.4 | 6.56 | 23.6 | 80.2 | 7.62 | 27.5 | 84.4 | 8.66 | 31.2 | 86.7 | 9.91 | 34.9 | 90.4 | 11.3 | 40.5 | 92.5 | 12.5 | 45.2 | 94.7 | 15.5 | 55.6 | 103 |
| 6.0 | 4.17 | 15.0 | 73.4 | 5.14 | 18.5 | 77.3 | 6.12 | 22.1 | 80.7 | 7.19 | 25.9 | 85.0 | 8.35 | 30.1 | 88.7 | 9.51 | 34.3 | 91.8 | 10.9 | 38.2 | 94.7 | 12.4 | 44.5 | 97.7 | 13.7 | 49.5 | 101 | 16.8 | 60.5 | 109 |
| 7.0 | 4.53 | 16.3 | 77.6 | 5.52 | 19.9 | 81.6 | 6.61 | 23.8 | 85.0 | 7.75 | 27.9 | 89.3 | 9.02 | 32.5 | 93.0 | 10.3 | 37.0 | 96.1 | 11.7 | 41.3 | 99.0 | 13.3 | 48.0 | 102.2 | 14.8 | 53.5 | 105 | 18.2 | 65.5 | 113 |
| 8.0 | 4.89 | 17.6 | 81.7 | 5.84 | 21.0 | 85.7 | 7.07 | 25.5 | 89.3 | 8.25 | 29.7 | 93.1 | 9.64 | 34.8 | 97.3 | 11.0 | 39.4 | 99.7 | 12.5 | 44.1 | 103 | 14.2 | 51.2 | 105.8 | 15.9 | 57.2 | 109 | 19.5 | 70.2 | 116 |

150 TAPER BORE NOZZLE — 24° TRAJECTORY

| Kg/cm² | 17.8 mm | | | 20.3 mm | | | 22.9 mm | | | 25.4 mm | | | 27.9 mm | | | 30.5 mm | | | 33.0 mm | | | 35.6 mm | | | | |
|--------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|-----|-----|
| | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH |
| 3.5 | 6.39 | 23.0 | 76.0 | 8.29 | 29.8 | 82.0 | 10.5 | 37.8 | 88.0 | 13.0 | 46.9 | 95.0 | 15.9 | 57.1 | 101 | 19.0 | 68.3 | 105 | 22.3 | 80.1 | 110 | 25.8 | 92.9 | 114 | | |
| 4.0 | 6.83 | 24.6 | 79.6 | 8.86 | 31.9 | 85.6 | 11.2 | 40.4 | 91.6 | 13.9 | 50.1 | 97.8 | 16.9 | 61.0 | 104 | 20.3 | 73.0 | 109 | 23.8 | 85.7 | 114 | 27.4 | 98.6 | 118 | | |
| 5.0 | 7.63 | 27.5 | 85.4 | 9.91 | 35.7 | 91.6 | 12.6 | 45.2 | 98.6 | 15.6 | 56.0 | 105 | 18.9 | 68.2 | 111 | 22.7 | 81.7 | 117 | 26.6 | 95.8 | 121 | 30.8 | 111 | 126 | | |
| 6.0 | 8.36 | 30.1 | 89.7 | 10.9 | 39.1 | 96.7 | 13.8 | 49.5 | 104 | 17.0 | 61.3 | 110 | 20.8 | 74.7 | 117 | 24.9 | 89.5 | 123 | 29.1 | 105 | 128 | 33.6 | 121 | 133 | | |
| 7.0 | 9.03 | 32.5 | 95.0 | 11.7 | 42.2 | 101 | 14.9 | 53.5 | 108 | 18.4 | 66.3 | 114 | 22.4 | 80.7 | 122 | 26.8 | 96.6 | 128 | 31.5 | 113 | 134 | 36.4 | 131 | 139 | | |
| 8.0 | 9.66 | 34.8 | 99.3 | 12.5 | 45.1 | 105 | 15.9 | 57.2 | 112 | 19.7 | 70.8 | 118 | 24.0 | 86.3 | 126 | 28.7 | 103 | 132 | 33.7 | 121 | 138 | 38.9 | 140 | 145 | | |
| 9.0 | 10.2 | 36.9 | 104 | 13.3 | 47.9 | 110 | 16.8 | 60.6 | 117 | 20.9 | 75.1 | 123 | 25.4 | 91.5 | 131 | 30.4 | 110 | 137 | 35.7 | 129 | 143 | 41.1 | 148 | 149 | | |

200 TAPER BORE NOZZLE — 27° TRAJECTORY

| Kg/cm² | 26.7 mm | | | 27.9 mm | | | 30.5 mm | | | 33.0 mm | | | 35.6 mm | | | 38.1 mm | | | 40.6 mm | | | 44.5 mm | | | 48.3 mm | | |
|--------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|-----|---------|---------|-----|---------|---------|-----|---------|---------|-----|---------|
| | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M | L/S | MPH | DIAM. M |
| 4.0 | 15.5 | 55.7 | 104 | 17.8 | 63.9 | 106 | 20.3 | 73.1 | 112 | 23.8 | 85.8 | 117 | 27.5 | 98.9 | 123 | 32.2 | 116 | 129 | 36.1 | 130 | 134 | 42.9 | 154 | 141 | 50.7 | 183 | 149 |
| 5.0 | 17.3 | 62.3 | 111 | 19.9 | 71.5 | 117 | 22.7 | 81.7 | 121 | 26.7 | 96.0 | 126 | 30.7 | 111 | 132 | 36.0 | 130 | 138 | 40.3 | 145 | 143 | 48.0 | 173 | 152 | 56.7 | 204 | 158 |
| 6.0 | 19.0 | 68.2 | 115 | 21.8 | 78.3 | 121 | 24.9 | 89.5 | 126 | 29.2 | 105 | 132 | 33.7 | 121 | 138 | 39.4 | 142 | 144 | 44.2 | 159 | 149 | 52.6 | 189 | 158 | 62.1 | 224 | 164 |
| 7.0 | 20.5 | 73.7 | 122 | 23.5 | 84.6 | 128 | 26.9 | 96.7 | 134 | 31.5 | 114 | 140 | 36.3 | 131 | 146 | 42.6 | 153 | 152 | 47.7 | 172 | 159 | 56.8 | 204 | 168 | 67.1 | 241 | 175 |
| 8.0 | 21.9 | 78.8 | 126 | 25.1 | 90.4 | 132 | 28.7 | 103 | 138 | 33.7 | 121 | 144 | 38.9 | 140 | 152 | 45.5 | 164 | 159 | 51.0 | 184 | 165 | 60.7 | 218 | 174 | 71.7 | 258 | 182 |
| 9.0 | 23.2 | 83.6 | 130 | 26.6 | 95.9 | 136 | 30.4 | 110 | 142 | 35.8 | 129 | 148 | 41.2 | 148 | 157 | 48.3 | 174 | 164 | 54.1 | 195 | 170 | 64.4 | 232 | 180 | 76.0 | 274 | 188 |

Diameters are based on a 24° trajectory for the 75, 100 and 150 Series and a 27° trajectory for the 200 Series. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Use of the wedge insert to modify trajectory will affect distance. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein.

Additional nozzle options and sizes available. Go to www.nelsonirrigation.com or contact the factory for nozzle performance.

TAPER BORE NOZZLE. Most common nozzle type. Used where the available water flow and pressure are consistent. A nozzle size must be specified when ordering a Big Gun with a Taper Bore Nozzle. *The Nozzle Valve End Gun requires a Taper Bore Nozzle.*

RING NOZZLE SET. The Ring Nozzle Set is an easy and economic way of changing nozzles to match the available water flow and pressure. These are commonly used where the available water flow and pressure are variable and or when the Big Gun is shifted between various water sources with different capacities. The abrupt orifice of the nozzle is less efficient so the radius of throw is less than that achieved with an equivalent diameter Taper Bore nozzle. The abrupt orifice of the Ring Nozzle does break the stream of water up more, which can be an advantage in low pressure applications. The Ring Nozzle comes with a set of rings. *The Ring Nozzle should not be used with the Nozzle Valve End Gun.*

TAPER RING NOZZLE. This nozzle combines the changeability of a Ring Nozzle with some of the efficiency of a Taper Bore Nozzle. When ordering the Taper Ring Nozzle specify the size as only one Taper Ring comes with the nozzle body and cap. Additional taper ring sizes can be purchased. *The Taper Ring Nozzle should not be used with the Nozzle Valve End Gun.*



THE BEST PRODUCT SUPPORT IN THE INDUSTRY.

Nelson is proud of its reputation for quality and integrity. We work hard to make our products the best, and we stand behind them with a one-year warranty.

Nelson Irrigation Corporation's worldwide network of professional dealers provides customized water application solutions.



Nelson Irrigation Corporation 848 Airport Rd., Walla Walla, WA 99362 USA
Tel: 509.525.7660 Fax: 509.525.7907 info@nelsonirrigation.com

Nelson Irrigation Corporation of Australia 35 Sudbury Street, Darra QLD 4074
Tel: +61 7 3715 8555 Fax: +61 7 3715 8666 info@nelsonirrigation.com.au

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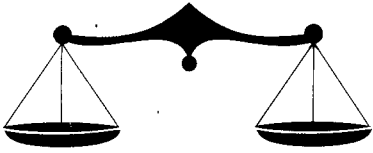
WARRANTY AND DISCLAIMER: Nelson Big Gun® Sprinklers are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein.

This product may be covered by one or more of the following U.S. Patent Nos. D297,453, 3,559,887, 3,744,720, 4,193,548, 4,669,663 and other U.S. Patents pending or corresponding issued or pending foreign patents.

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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

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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
Alice Smith Lyell
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

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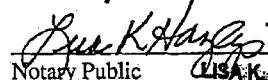
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State of ~~Louisiana~~, ^{Parish} ~~County~~ of East Baton Rouge

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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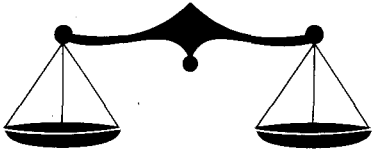
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STULL, BEVERLIN, NICOLAY & HAAS, LLC

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www.stull-law.com lawoffice@stull-law.com

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

September 23, 2016

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

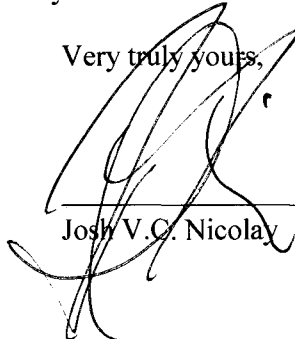
Re: Water appropriation application – J.S. Broussard Farms, LLC

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,



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 black ink that reads "Brent A. Turney". The signature is written in a cursive style.

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

BAT: dlw
pc: STAFFORD Field Office
GMD

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