

THE STATE OF KANSAS



WATER RESOURCES RECEIVED
 APR 23 2024
 13:06
 KS Dept. of Agriculture

KANSAS DEPARTMENT OF AGRICULTURE
 Mike Beam, Secretary of Agriculture

DIVISION OF WATER RESOURCES
 Earl D. Lewis Jr., Chief Engineer

File Number **51229**
 This item to be completed by the Division of Water Resources.

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): Full Buck Moon Farms LLC, C/O Farmers National Company
 Address: P.O. Box 40
 City: Kechi State KS Zip Code 67067
 Telephone Number: (785) 672-8672

2. The source of water is: surface water in _____ (stream)
 OR groundwater in Arkansas River Basin - Equus Beds Aquifer (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 72.8 acre-feet OR _____ gallons per calendar year, to be diverted at a maximum rate of 800 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>2</u>	Meets K.A.R. 5-3-1	(YES/NO)	Use	<u>IRR</u>
Code	<u>REG</u>	Fee \$	<u>200</u>	TR #		Source	<u>G/S</u>
						County	<u>RN</u>
						By	<u>KJN</u>
						Date	<u>4/23/24</u>
						Receipt Date	<u>3-23-24</u>
						Check #	<u>788045</u>

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

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

- (A) One in the SW quarter of the SW quarter of the NE quarter of Section 5, more particularly described as being near a point 3064 feet North and 2273 feet West of the Southeast corner of said section, in Township 23 South, Range 6W East/West (circle one), Reno 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):

Full Buck Moon Farms LLC, P.O. Box 6428, Westlake Village, CA 91359

(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 Apr 18, 2024.



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 1 well
(number of wells, pumps or dams, etc.)

and (was)(will be) completed (by) As soon as possible
(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 as soon as possible
(Mo/Day/Year)

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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 NA
- If no, explain here why a Water Structures permit is not required NA

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

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

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

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

Change in Place of Use application will be submitted to change Place of Use on WR #30808,

so there is no overlap on the place of use with 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	1/24/2024	_____	_____	_____
Total depth of well	70 ft	_____	_____	_____
Depth to water bearing formation	7 ft	_____	_____	_____
Depth to static water level	12 ft	_____	_____	_____
Depth to bottom of pump intake pipe	N/A	_____	_____	_____

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

Owner / Agent
(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):

Full Buck Moon Farms LLC, P.O. Box 6428, Westlake Village, CA 91359
(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 Halstead, Kansas, this 18 day of April, 2024.
(month) (year)



(Applicant Signature)

By _____
(Agent or Officer Signature)

(Agent or Officer - Please Print)

Assisted by B. Barton

GMD2/Hydrogeologist
(office/title)

Date: 4/18/2024 - BB
3/26/2024

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FEE SCHEDULE

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250	\$200.00
More than 250	\$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

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IRRIGATION USE SUPPLEMENTAL SHEET

File No. _____

Name of Applicant (Please Print): Full Buck Moon Farms, LLC c/o Farmers National Company

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: Full Buck Moon Farms, LLC

ADDRESS: P.O. Box 6428 Westlake Village, CA 91359

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4	23S	6W						23	29									52	

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
<u>Nickerson loamy fine sand</u>	<u>90</u>	<u>0.60-2.00</u>	<u>9</u>
<u>Tivin Willowbrook complex</u>	<u>10</u>	<u>0.60-6.00</u>	<u>?</u>
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

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

Estimate the maximum land slope in the field(s): 2 %

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: Center Pivot with cornering system

d. System design features:

i. Describe how you will control tailwater: Will schedule and apply irrigation to eliminate run-off

ii. For sprinkler systems: Not Available

(1) Estimate the operating pressure at the distribution system: _____ psi

(2) What is the sprinkler package design rate? _____ 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? _____ 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: Wheat, Soybeans, Corn, Alfalfa

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). Owner will check soil moisture and crop needs

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

Application Map - File No. _____

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I declare that all water wells or diversion sites using the same source of supply and within 1/2 mile of the proposed point of diversion have been plotted on the application map.

[Signature]
Signature

4/18/2024
Date

New Application

Application No. _____ To Change:

- Point of Diversion
- Place of Use
- Use Made of Water
- Proposed Point of Diversion
- Existing Points of Diversion
- Proposed Place of Use
- Authorized Place of Use

Water wells within 1/2 mile of proposed point of diversion include: (type use, owner, address)

- 1) See attached sheet for details
- 2)
- 3)

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Wells Within ½ Mile

1. Irrigation Well - Water Right No. 36918 – Applicant's
Full Buck Moon Farms, LLC c/o Farmers National Company
P.O. Box 40
Kechi, KS 67067
2. Irrigation Well - Water Permit No. 50040 – Applicant's
Full Buck Moon Farms, LLC
P.O. Box 6428
Westlake Village, CA 91359
3. Irrigation Well - Water Right No. 45812
A.) Morgan Family Trust c/o David & Sharon Morgan
A.) 2004 N. Wilson Rd.
A.) Hutchinson, KS 67502-9709
B.) City of Hutchinson Attn: Brian Clennan
B.) P.O. Box 1567
B.) Hutchinson, KS 67504-1567
4. Domestic Well
Timothy S. Ayres
2314 N. Wilson Rd.
Hutchinson, KS 67501
5. Domestic Well
Rex G. & Michelle D. Mathias
2216 N. Wilson Rd.
Hutchinson, KS 67501
6. Domestic Well
Morgan Family Trust c/o David & Sharon Morgan
2004 N. Wilson Rd.
Hutchinson, KS 67502-9709



1000 Corey Road
 P.O. Box 886
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-665-0559
 TOLL FREE: 877-464-0623
 www.sdklabs.com

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Sample # 340.24
 Sample: Water
 Other ID: 5-23-6W/Ostmeyer

Date Received: 01/24/2024 **KS Dept. of Agriculture**
 Date/Time Sampled: 1/24/2024 11:45:00
 Date Reported: 01/26/2024
 Total Fee: \$55.00

DARLING DRILLING
 3916 WEST 56TH
 HUTCHINSON, KS 67502

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B	7.95	s.u.	1/24/2024 08:32	SE
++Chloride - SM 4500-Cl B	205	mg/L	1/26/2024 10:00	SE
++Total Hardness - SM 2340B	410	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D	19.3	mg/L	1/24/2024 14:35	SE
++Calcium - SM 3111B	126	mg/L	1/25/2024 16:09	JC
++Magnesium - SM 3111B	23.10	mg/L	1/25/2024 16:09	JC
++Sodium - SM 3111B	169	mg/L	1/25/2024 16:09	JC
++Sulfate - SM 4500 SO4 E	141	mg/L	1/25/2024 12:30	SE
% Sodium	53.10	%		
SAR-Sodium Absorption Ratio	3.623	s.u.		
++Electrical Conductivity - SM 2510B	1560	umhos/cm	1/24/2024 15:20	SE
TDS-Total Dissolved Solids - Calculated	1106	mg/L		
Irrigation Quality Rating	AS FOLLOWS			
Light Soil -Salinity Hazard	Medium			
Light Soil - Sodium Hazard	Medium			
Medium Soil -Salinity Hazard	Medium			
Medium Soil -Sodium Hazard	High			
Heavy Soil -Salinity Hazard	Medium			
Heavy Soil -Sodium Hazard	Very High			
General Comment:	Permissible/Doubt			

**Sample receipt temperature = 18.4 degrees C.
 **Sample beyond hold time for pH.
 * Analysis was subcontracted to another laboratory for state compliance - see attached.
 ++Denotes NELAP/KDHE Accredited Method. Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.
 Methods of analysis per EPA-800 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Approved By: M. H. Morgan Quality Assurance Officer
 mau morgan





1000 Corey Road
 P.O. Box 886
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-665-0559
 TOLL FREE: 877-464-0623
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Sample # 340.24
 Sample: Water
 Other ID: 5-23-6W/Ostmeyer

Date Received: 01/24/2024
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 Date Reported: 01/26/2024
 Total Fee: \$55.00

DARLING DRILLING
 3916 WEST 56TH
 HUTCHINSON, KS 67502

ANALYSIS

Result	Units	Date/Time Analyzed	Analyst
--------	-------	--------------------	---------

SDK LABORATORIES
 GENERAL WATER REPORT GUIDELINES

- pH: Normal range 6.5 – 8.5 with Reverse Osmosis/Distilled Water having a range of 5.0 – 6.0.
- Chloride: Levels above 250 mg/L may cause a "salty taste". Levels above 1000 mg/L are not recommended for livestock.
- Fluoride: Levels above 2.0 mg/L are not recommended.
- Total Hardness:
 - "Soft Water": 0 – 85 mg/L (0 – 5 grains/gallon)
 - "Moderately Hard Water": 85 – 150 mg/L (5 – 9 grains/gallon)
 - "Hard Water": 150 – 300 mg/L (9 – 18 grains/gallon)
 - "Very Hard Water": 300 – 500 mg/L (18 – 30 grains/gallon)
 - Levels above 2000 mg/L are not recommended for livestock.
- Nitrate-Nitrogen:
 - Levels between 0 – 10 mg/L are acceptable.
 - Livestock Levels:
 - Levels between 20 – 40 mg/L may pose a risk to some livestock.
 - Levels above 40 mg/L are not recommended for livestock.
- Calcium and Magnesium: Cause the "Hardness" of the water.
- Sodium: Levels above 100 mg/L are considered to be high. Water softeners recharged with sodium chloride (salt) increase the sodium level.
- Sulfate: Levels above 250 mg/L may cause a mild taste and levels above 500 mg/L may cause diarrhea in both humans and livestock.
- Iron: Levels above 0.3 mg/L may cause taste, odor and staining on fixtures and laundry.
- Manganese: Levels above 0.05 mg/L may cause taste and black/grey staining on fixtures and laundry.
- Electrical Conductivity: A measurement of the conductivity of the water. Typically, the higher the electrical conductivity of the water, the higher the dissolved salts/solids.
- TDS-Total Dissolved Solids: Levels above 1000 mg/L may cause taste. Shortened water heater life may be caused by levels above 400 mg/L. Levels above 7000 mg/L are not recommended for livestock.

Source: Michael H. Bradshaw, and G. Morgan Powell, Understanding your Water Test Report, Kansas State University, October 2004
 Standard Methods for the Examination of Water and Wastewater, 18th edition, 1992

Approved By:  Quality Assurance Officer
 matt.morgan



4/18/2024
(Date)

Kansas Department of Agriculture
Division of Water Resources
Earl D. Lewis, Jr., Chief Engineer
1320 Research Park Drive
Manhattan, Kansas 66502

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KS Dept. of Agriculture

Re: Application
File No. _____

Minimum Desirable Streamflow

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

[Signature]
Signature of Applicant

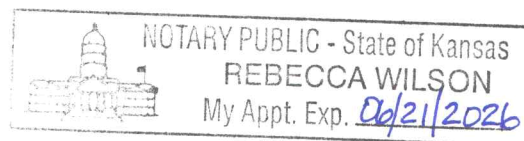
State of Kansas)
County of HARVEY) ss

Chris Ostmeier
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 18th day of APRIL, 20 24.

Rebecca Wilson
Notary Public

My Commission Expires: 06/21/2026



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**MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN
APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT
TO APPROPRIATE WATER FOR BENEFICIAL USE**

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River