

Technical Document BA24005



Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

NRCB USE ONLY <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	Application number	Legal land description
	BA24005	NE 4-58-27 W4M

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

Feb. 14/24
Date of signing


Signature

Vandenberg Farms Ltd
Corporate name (if applicable)

Dan Vandenberg
Print name

GENERAL INFORMATION REQUIREMENTS

Proposed facilities: list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, width, and depth)
NEW LAYER BARN	13.7 x 64
EGG COLLECTION ROOM (ancillary)	15 x 6

Existing facilities: list ALL existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
BARN 4 (PULLETS)	12.19m x 42.7	
BARN 8 (LAYERS)	12.19 x 61	

NRCB USE ONLY

Confirmed existing CFO

Part 2 – Technical Requirements



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If a new facility is replacing an old facility, please explain what will happen to the old facility and when. N/A

Construction completion date for proposed facilities DEC 31, 2026

Additional information

NEW BARN WILL BE BUILT ON SIMILAR FOOTPRINT AS A NON OPERATIONAL FACILITY, WHICH HAS BEEN TORN DOWN.

Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
LAYERS	15298	19712	35000
PULLETS	18500	0	18500

Part 2 – Technical Requirements



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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO) *Date and sign one of the following four options*

OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I **DO** want my water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water licence application number(s) _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

Part 2 – Technical Requirements



Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

OPTION 4: Uncertain if *Water Act* licence is needed; acknowledgement of risk (for existing CFOs only)

1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this 13 day of FEBRUARY, 2024.

Signature of Applicant or Agent

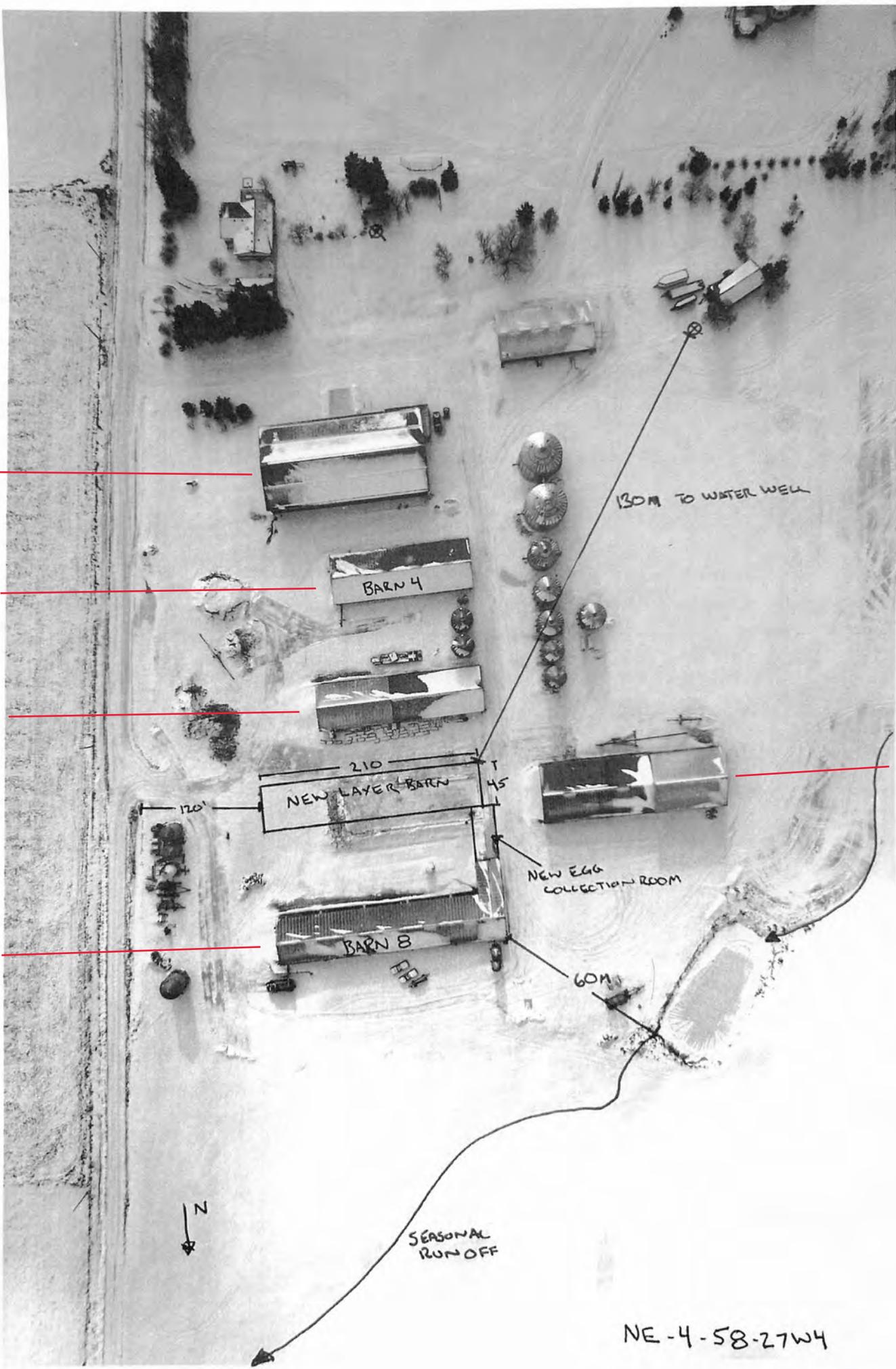
shop

pullets

old barn

layers

old barn



Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)



GENERAL ENVIRONMENTAL INFORMATION

(Complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: BARN 8

Proposed 1: NEW LAYER BARN

Proposed 2: _____

Proposed 3: _____

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Not in flood plain
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None known
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	60m	70m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	45 m to seasonal drainage
Groundwater information	What is the depth to the water table?		>5m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the depth to the groundwater resource/aquifer you draw water from?	30m	30m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Shale at 5.5 m ID1630308. depth of draw is 32 m

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1630308
GoA Well Tag No. A0706
Drilling Company Well ID
Date Report Received 2019/11/19

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name		Address			Town		Province		Country	Postal Code	
VANDENBORN, FARMS		P.O. BOX 120			BUSBY		ALBERTA		CANADA	TOG 0H0	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	9	4	58	27	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
_____ ft from					Latitude <u>53.985657</u> Longitude <u>-113.944750</u>					<u>2400.00</u> ft	
_____ ft from					How Location Obtained					How Elevation Obtained	
					Map					Differential corrected handheld GPS 5-10m	

Drilling Information		Type of Work
Method of Drilling Combination		New Well
Proposed Well Use Domestic & Stock		

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
5.00		Brown Clay
18.00		Light Clay
22.00		Gray Soft Shale
28.00		Dark Gray Shale
30.00		Greenish Gray Soft Shale
32.00		Green Shale
35.00		Sandy Shale
38.00		Dark Shale
44.00		Green Shale
48.00		Sandy Shale
59.00		Dark Hard Shale
60.00		Sandstone & Rocks
72.00		Dark Shale
76.00		Greenish Gray Shale
77.00		Brown Hard Sandstone
80.00		Dark Gray Shale
81.00		Sandy Shale
82.50		Dark Shale
83.00		Sandstone
92.00		Dark Shale
97.00		Gray Shale
98.00		Bentonite
100.00		Greenish Gray Shale
102.00		Bentonite
106.00		Gray Shale
108.00	Yes	Coal
112.00		Gray Shale
114.00		Brown Hard Sandstone
119.00		Light Shale
121.00		Greenish Gray Shale
122.00		Dark Gray Shale
124.00	Yes	Coal

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate		13.30 igpm	
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
2019/11/06	13.30	56.80	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
140.00 ft	135.00 ft	2019/10/30	2019/11/01	

Borehole		
Diameter (in)	From (ft)	To (ft)
8.00	0.00	50.00
5.13	50.00	140.00

Surface Casing (if applicable)		Well Casing/Liner	
Steel	Plastic	Size OD	4.50 in
Size OD	5.56 in	Wall Thickness	0.237 in
Wall Thickness	0.188 in	Bottom at	15.00 ft
Bottom at	53.00 ft	Bottom at	135.00 ft

Perforations				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
105.00	110.00	0.020	4.00	0.25
120.00	125.00	0.020	4.00	0.25
130.00	135.00	0.020	4.00	0.25

Perforated by Machine

Annular Seal Bentonite Chips
Placed from 0.00 ft to 50.00 ft
Amount 400.00 Pounds

Other Seals		At (ft)
Type	Driven	53.00
Type	Driven	50.00

Screen Type		
Size OD	_____ in	
From (ft)	To (ft)	Slot Size (in)

Attachment _____

Top Fittings _____ Bottom Fittings _____

Pack
Type Frac Sand Grain Size 10-20
Amount 500.00 Pounds

Contractor Certification		Certification No
Name of Journeyman responsible for drilling/construction of well RENE ARTS		VC7442
Company Name RENE ARTS WATERWELL LTD.		Copy of Well report provided to owner Yes
		Date approval holder signed 2019/11/06



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 1630308
GoA Well Tag No. A0706
Drilling Company Well ID
Date Report Received 2019/11/19

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name		Address			Town		Province	Country	Postal Code		
VANDENBORN, FARMS		P.O. BOX 120			BUSBY		ALBERTA	CANADA	T0G 0H0		
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	9	4	58	27	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation			
_____ ft from					Latitude 53.985657			2400.00 ft			
_____ ft from					Longitude -113.944750			How Elevation Obtained			
					How Location Obtained			Differential corrected handheld GPS 5-10m			
					Map						

Depth from ground level (ft)	Water Bearing	Lithology Description
129.00		Dark Shale
130.00		Green Shale
131.00		Sandstone
131.00	Yes	Sandstone
133.00		Green Shale
133.00		Green Shale
135.00		Fractured Sandstone
136.00		Gray Shale
140.00		Bentonite

Contractor Certification		Certification No	
Name of Journeyman responsible for drilling/construction of well		VC7442	
RENE ARTS		Copy of Well report provided to owner	
Company Name		Date approval holder signed	
RENE ARTS WATERWELL LTD.		Yes 2019/11/06	



Water Well Drilling Report

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GIC Well ID 1630308
GoA Well Tag No. A0706
Drilling Company Well ID
Date Report Received 2019/11/19

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GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name	Address			Town			Province	Country	Postal Code		
VANDEBORN, FARMS	P.O. BOX 120			BUSBY			ALBERTA	CANADA	TOG 0H0		
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	9	4	58	27	4						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation			
_____ ft from				Latitude <u>53.985657</u> Longitude <u>-113.944750</u>				<u>2400.00 ft</u>			
_____ ft from				How Location Obtained				How Elevation Obtained			
				Map				Differential corrected handheld GPS 5-10m			

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level <u>24.00 in</u>											
Is Artesian Flow _____										Is Flow Control Installed _____	
Rate _____ igpm										Describe _____	
Recommended Pump Rate <u>13.30 igpm</u>										Pump Installed <u>Yes</u>	
Recommended Pump Intake Depth (From TOC) <u>100.00 ft</u>										Depth <u>100.00 ft</u>	
										Type <u>Submersible</u>	
										Make <u>GRUNDFOS</u>	
										H.P. <u>1</u>	
										Model (Output Rating) <u>15SQE10-250</u>	
										<u>240VOLT</u>	
Did you Encounter Saline Water (>4000 ppm TDS) _____										Depth _____ ft	
Gas _____										Well Disinfected Upon Completion <u>Yes</u>	
Remedial Action Taken _____										Geophysical Log Taken _____	
										Submitted to ESRD _____	
										Sample Collected for Potability _____	
										Submitted to ESRD _____	
Additional Comments on Well											
VERMIN PROOF CAP INSTALLED											

Yield Test			Taken From Top of Casing			Measurement in Imperial	
Test Date	Start Time	Static Water Level	Depth to water level				
2019/11/06	3:00 PM	56.80 ft	Pumping (ft)	Elapsed Time	Recovery (ft)		
				Minutes:Sec			
Method of Water Removal			56.80	0:00	74.20		
Type <u>Pump</u>			68.70	1:00	60.20		
Removal Rate <u>13.30 igpm</u>			70.70	2:00	58.25		
Depth Withdrawn From <u>100.00 ft</u>			71.08	3:00	58.02		
			71.41	4:00	57.89		
			71.68	5:00	57.18		
			71.88	6:00			
			71.99	7:00			
			72.12	8:00			
			72.26	9:00			
			72.32	10:00			
			72.36	12:00			
			72.45	14:00			
			72.55	16:00			
			72.60	18:00			
			72.64	20:00			
			72.83	25:00			
			73.02	30:00			
			73.08	35:00			
			73.18	40:00			
			73.43	50:00			
			73.69	60:00			
			73.84	75:00			
			73.98	90:00			
			74.11	105:00			
			74.20	120:00			

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
SW-15-60-26-W4	2000.00 ig	2019/10/29 10:00 AM

Contractor Certification		
Name of Journeyman responsible for drilling/construction of well	Certification No	
RENE ARTS	VC7442	
Company Name	Copy of Well report provided to owner	Date approval holder signed
RENE ARTS WATERWELL LTD.	Yes	2019/11/06



Water Well Drilling Report

View in Metric **Export to Excel**

GIC Well ID 152195
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1990/01/15

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial		
Owner Name VANDERBORN, JOHN		Address P.O. BOX 38 BUSBY			Town		Province		Country		Postal Code T0G 0H0	
Location	1/4 or LSD NE	SEC 4	TWP 58	RGE 27	W of MER 4	Lot	Block	Plan	Additional Description			
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ ft		
_____ ft from _____					Latitude <u>53.988918</u> Longitude <u>-113.948470</u>					How Elevation Obtained _____		
_____ ft from _____					How Location Obtained _____					Not Obtained		
Map												

Drilling Information	
Method of Drilling Rotary	Type of Work New Well
Proposed Well Use Domestic	

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
29.00		Brown Sandy Clay
30.00		Sandstone
35.00		Sandy Shale
41.00		Gray Shale
58.00		Dark Shale
59.00		Sandstone
63.00		Sandy Shale & Sandstone
70.00		Gray Shale
80.00		Dark Shale
86.00		Sandy Shale & Sandstone
91.00		Dark Shale
92.00		Coal
98.00		Dark Shale
108.00		Green Shale
110.00		Dark Shale
112.00		Coal
115.00		Brown Shale
120.00		Sandy Shale
126.00		Brown Shale
127.00		Coal
131.00		Dark Shale
137.00		Sandy Shale & Sandstone
140.00		Gray Shale

Yield Test Summary		Measurement in Imperial
Recommended Pump Rate	<u>9.00</u> igpm	
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)
1989/11/16	9.00	60.00

Well Completion		Measurement in Imperial	
Total Depth Drilled	Finished Well Depth	Start Date	End Date
140.00 ft		1989/11/12	1989/11/16
Borehole			
Diameter (in)	From (ft)	To (ft)	
0.00	0.00	140.00	
Surface Casing (if applicable)		Well Casing/Liner	
Steel		Plastic	
Size OD : <u>5.56</u> in		Size OD : <u>4.50</u> in	
Wall Thickness : <u>0.188</u> in		Wall Thickness : <u>0.214</u> in	
Bottom at : <u>40.00</u> ft		Top at : <u>17.00</u> ft	
		Bottom at : <u>140.00</u> ft	
Perforations			
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)
80.00	85.00	0.020	3.00
110.00	140.00	0.000	0.00
Performed by Machine			
Annular Seal Driven			
Placed from <u>35.00</u> ft to <u>40.00</u> ft			
Amount _____			
Other Seals			
Type _____		At (ft) _____	
Screen Type			
Size OD : <u>0.00</u> in			
From (ft)	To (ft)	Slot Size (in)	
Attachment _____			
Top Fittings _____		Bottom Fittings _____	
Pack			
Type _____		Grain Size _____	
Amount <u>0.00</u>			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name RENE ARTS WATERWELL LTD.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 152195
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1990/01/15

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial		
Owner Name VANDERBORN, JOHN		Address P.O. BOX 38 BUSBY			Town		Province		Country		Postal Code TOG 0H0	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description			
	NE	4	58	27	4							
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ ft		
_____ ft from					Latitude <u>53.988919</u> Longitude <u>-113.948470</u>					How Elevation Obtained		
_____ ft from					How Location Obtained					Not Obtained		
					Map							

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ igpm					Describe _____						
Recommended Pump Rate _____ 9.00 igpm					Pump Installed <u>Yes</u>		Depth _____ ft				
Recommended Pump Intake Depth (From TOC) _____ 0.00 ft					Type <u>SUB</u>		Make _____		H.P. _____		Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft		Well Disinfected Upon Completion _____				
Remedial Action Taken _____					Gas _____		Depth _____ ft		Geophysical Log Taken _____		
					Submitted to ESRD _____						
Additional Comments on Well _____					Sample Collected for Potability _____					Submitted to ESRD _____	

Yield Test			Taken From Ground Level		Measurement in Imperial	
			Depth to water level			
Test Date 1989/11/16	Start Time 12:00 AM	Static Water Level 60.00 ft	Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)	
Method of Water Removal						
Type <u>Pump</u>						
Removal Rate <u>9.00 igpm</u>						
Depth Withdrawn From <u>100.00 ft</u>						
If water removal period was < 2 hours, explain why _____						

Water Diverted for Drilling		
Water Source	Amount Taken ig	Diversion Date & Time

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name RENE ARTS WATERWELL LTD.	Copy of Well report provided to owner Date approval holder signed

NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
See DS Section 8			

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Layer barn (barn 8)	Low	Low	BA24005

ERST related comments:

NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: ID 1630308 ID 152195 _____

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:

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Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

			NRCB USE ONLY				
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
1 TERRY ROSS	NW-3-58-27W4	690	Ag	Cat 1	676 m	N/A	Yes
2 BRENDAN GERIG	SW-3-58-27W4	890	Ag	Cat 1	863 m		Yes
3 DARYL HUNTER	NW-34-57-27W4	1150	Ag	Cat 1	1098 m		Yes
4 MITCH	NE-33-57-27W4	1130	Ag	Cat 1	1070 m		Yes
5 PETER JORDAN	SW-4-58-27W4	1460	Ag	Cat 1	1374 m		Yes

LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

				NRCB USE ONLY	
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
DAN VANDEW BORN	SE-9-58-27W4	140 ac	GREY WOODED		
↓	SW-9-58-27W4	150 ac	↓		
	NE-4-58-27W4	150 ac			
	SW-3-58-27W4	160 ac	↓		
Total				600 ac	

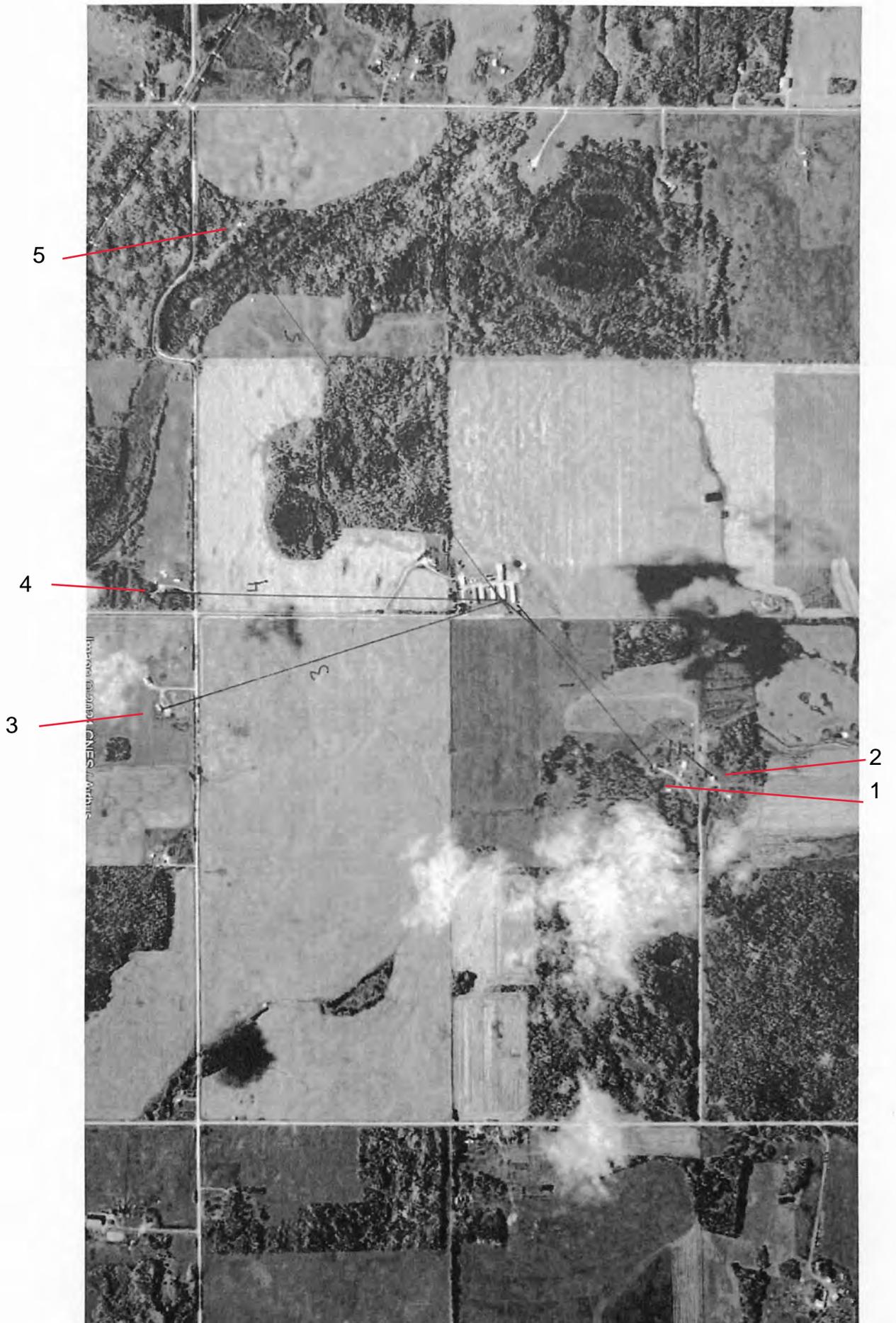
* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

MDS map



NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google Earth

Margin of error (if applicable): N/A

Requirements (m): Category 1: 371 m Category 2: 495 m Category 3: 619 m Category 4: 991 m

Technology factor: YES NO

Expansion factor: YES NO

MDS related concerns from directly affected parties or referral agencies: YES NO

LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 157 ha (386 ac)

Land base listed: 600 ac

Area not suitable: Applicant has provided adequate land base

Available area: _____ Requirement met: YES NO

Land spreading agreements required: YES NO

Manure management plan: YES NO If yes, plan is attached:

PLANS

Submitted and attached construction plans: YES NO

Submitted aerial photos: YES NO

Submitted photos: YES NO

GRANDFATHERING

Already completed: YES NO N/A

If already completed, see See Decision Summary BA24005

NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

February 12, 2024	
February 28, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: March 5, 2024

Municipality: Westlock County

letter sent response received written/email verbal no comments received

Alberta Health Services: N/A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for EACH barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) 1. NEW BARN
2. _____

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	64	13.7	0	
2.				

TOTAL CAPACITY

Adequate storage for solid manure on site

I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

Surface water control systems

Describe the run-on and runoff control system

Under roof.
direct water away from barns.

Liner protection

Describe how the physical integrity of the liner will be maintained

monitor for cracks.

NRCB USE ONLY

Requirements met: YES NO

Part 2 – Technical Requirements



Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details

Concrete thickness 6"	Method of sulphate protection: Type 50 or Similar
Concrete strength 25mpa.	Concrete reinforcement size and spacing 18" oc

Concrete requirements can be found in Technical Guideline Agdex 096-93
 Guideline minimums:
 Solid manure: 25MPa (D)
 Solid manure (wet): 30MPa (C)
 Method of sulphate protection:
 Type 50 or Type 10 with fly ash or equivalent

NRCB USE ONLY

Requirements met: YES NO
 Condition required: YES NO
 Report attached: YES NO

Additional information (attach as required)

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Nine month manure storage volume requirements met YES NO YES With STMS NO

Depth to water table: >5 m Requirements met: YES NO

Depth to Uppermost groundwater resource: Shale at 5.5 m ID1630308 Requirements met: YES NO

ERST completed: see ERST page for details

Surface water control systems

Requirements met: YES NO Details/comments:

Under roof facility, manure hauled away to STMS sites each week

Concrete liner details

Applicant to provide documentation confirming concrete information

Leakage detection system required: YES NO If yes, please explain why.

