Part 2 — Technical Requirements

NRCB Natural Resources Conservation Board

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

NRCB USE ONLY	Application number	Legal land description
☒ Approval ☐ Registration ☐ Authorization ☐ Amendment	BA25010	W1/2 28-61-26 W4M, NE 29-61-26 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.

8/3/25
Date of signing

[redacted]
Signature

HB of Pibroch
Corporate name (if applicable)

Eli Tschetter
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)
layer barn changed to 91 m x 30 m on June 3	140 x 30
egg collecting / office	18 x 14
manure pad	18 x 10

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
See attached		

NRCB USE ONLY

Confirmed existing CFO

Last updated September 11, 2023

Part 2 — Technical Requirements

NRCB Natural Resources Conservation Board

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

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
hog barns F-F	135m x 18m & 23m x 55m	
hog finishing barn	125m x 40m	
hog lagoon new	90m x 100m 20' deep	
hog lagoon	35m x 44m & 30m x 65m 15' deep	
layer barn	46m x 15 m & 46m x 15m	
Pullet barn	40m x 15 m	
broiler barn	29m x 14m	
turkey/duck/goose barn	29m x 38m pen and shelter	
dairy barn	50 m x 20 m & 80 m x 30 m	
dairy pens	70 m x 38 m & 74 m x 30 m	
calf barn	40 m x 14 m	

Part 2 — Technical Requirements

NRCB Natural Resources Conservation Board

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

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

repurpose old barns for pullets

Existing finisher barn to be rconverted to a sheep barn including filling pits.
Existing layer barn will be used for pullets.

Construction completion date for proposed facilities 2028

Additional information

Increase layers (plus associated pullets) to 30,000 and 450 sheep (ewes with lambs).

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**

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

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 18 day of March, 2025. [redacted]

Signature of Applicant or Agent


existing Layer barn
44
44
Proposed

Part 2 — Technical Requirements

NRCB Natural Resources Conservation Board

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: dairy barn **Proposed 1:** 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?	☑ >1 m ☐ ≤ 1 m	☑ >1 m ☐ ≤ 1 m	☐ >1 m ☐ ≤ 1 m	☐ > 1 m ☐ ≤ 1 m	☑ YES ☐ NO ☐ YES with exemption	Not in flood plain
Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			☑ YES ☐ NO ☐ YES with exemption	None known
	How many water wells are within 100 m of the manure storage facility or manure collection area?	1	0			☑ YES ☐ NO ☐ YES with exemption	1 well near dairy pens, 1 near feedlot, none near proposed.
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	100	300 m			☑ YES ☐ NO ☐ YES with exemption	Dapp Creek runs through Pibroch. Hog EMS adjacent to creek.
Groundwater information	What is the depth to the water table?		>6m			☑ YES ☐ NO ☐ YES with exemption	No water table observed around site previously.
	What is the depth to the groundwater resource/aquifer you draw water from?	250'				☑ YES ☐ NO ☐ YES with exemption	37.2 m ID1630086

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

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

ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
See Decision Summary BA25010			

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
Manure pit	Low	Low	BA20015
Old lagoon	Low	Low	BA20015
New lagoon	Low	Low	BA20015

ERST related comments:

Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain and have a large berm on side next to creek.

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

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: ID 1630086 ID 1630088 _____

ID 250397 ID 250404 _____

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

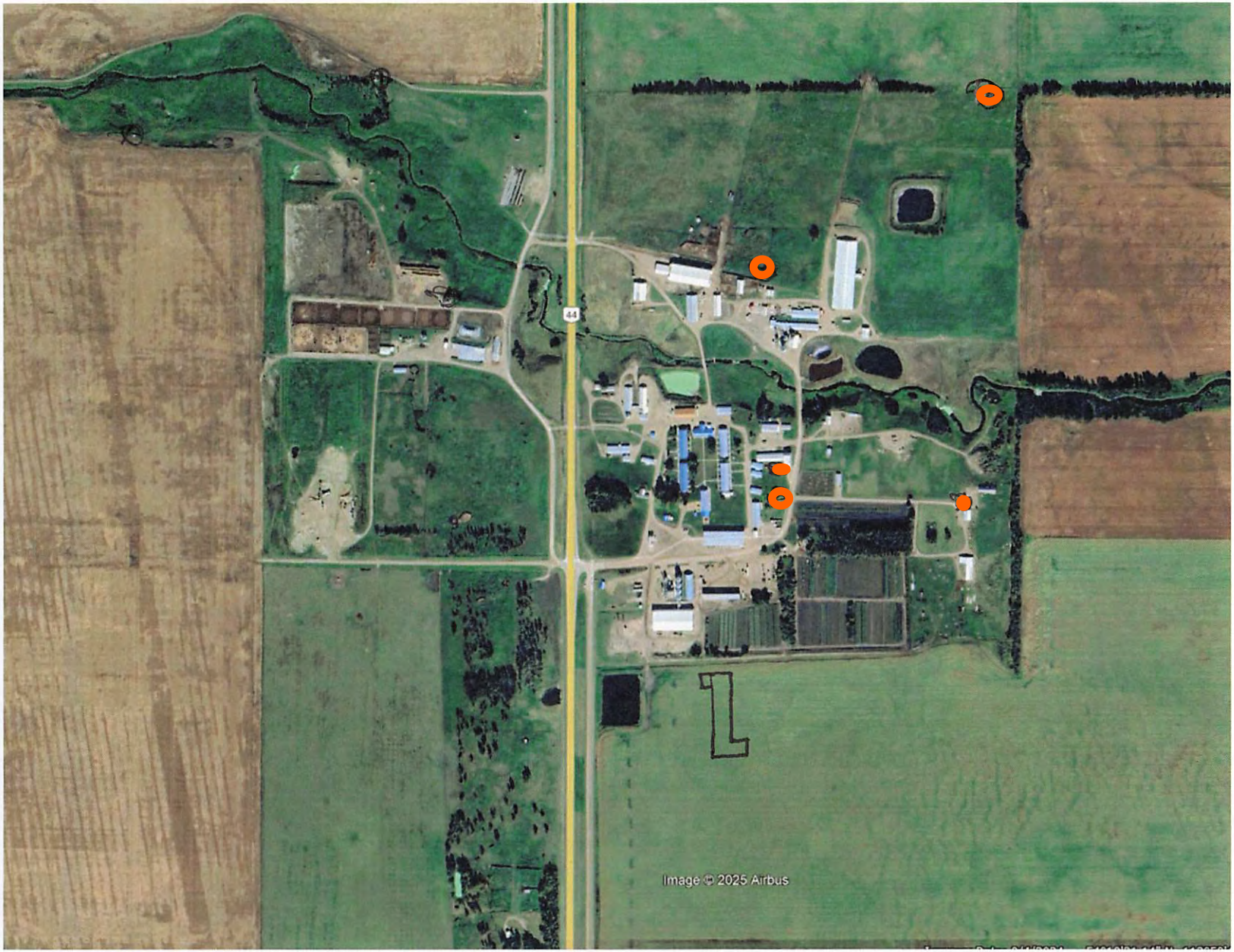
If applicable, exemption for 30 m distance requirements applied: ☐ YES ☐ NO Condition required: ☐ YES ☐ NO

Water Well Exemption Screening Tool ☑ N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:

water wells



wells

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 291152
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1999/02/03

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	16	29	61	26	4				

Measured from Boundary of
609.60 m from South
182.88 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.310431 Longitude -113.853361
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Domestic

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
6.10		Brown Clay
21.34		Soft Clay & Sand
26.82		Gray Clay
29.87		Green Shale
30.48		Brown Shale
31.39		Brown Shale
33.53		Gray Shale
35.05		Sandy Shale
36.27		Gray Shale
40.84		Sandy Shale
41.15		Coal
47.85		Greenish Gray Shale
49.38		Sandy Shale
51.82		Gray Shale
52.43		Sandy Shale
53.95		Greenish Gray Shale
59.74		Coarse Grained Shale & Sandstone
62.18		Gray Shale
62.79		Sandstone
64.01		Gray Shale
64.92		Dark Shale
65.23		Hard Sandstone
66.45		Gray Shale
67.06		Coal
70.10		Greenish Gray Shale
73.15		Gray Shale
74.07		Gray Sand
79.25		Gray Shale
80.77		Gray Sand
85.34		Greenish Gray Shale
96.01		Gray Sand & Sandstone
97.23		Gray Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 45.46 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1995/11/02	45.28	14.63

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
100.58 m		1995/10/26	1995/11/02

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	100.58

Surface Casing (if applicable)
Steel
Size OD : 14.12 cm
Wall Thickness : 0.478 cm
Bottom at : 29.26 m

Well Casing/Liner
Plastic
Size OD : 11.43 cm
Wall Thickness : 0.602 cm
Top at : 6.10 m
Bottom at : 97.54 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
54.86	60.96	0.051		7.62
67.06	73.15	0.000		0.00
79.25	97.54	0.000		0.00

Perforated by Machine

Annular Seal Driven
Placed from 25.91 m to 29.26 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type Artificial
Grain Size 10-20
Amount 1000.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Company Name
RENE ARTS WATERWELL LTD.

Certification No
1

Copy of Well report provided to owner *Date approval holder signed*

Alberta Water Well Drilling Report

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.

View in Imperial | Export to Excel

GOWN ID

GIC Well ID 291152
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1999/02/03

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	16	29	61	26	4				

Measured from Boundary of
609.60 m from South
182.88 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.310431 Longitude -113.853361
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Depth from ground level (m)	Water Bearing	Lithology Description
99.06		Sandy Sandstone
100.58		Gray Shale

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

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 1630003
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 5330	WESTLOCK	AB	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NE	29	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308600 Longitude -113.857000
How Location Obtained
Not Verified

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
6.10		Brown Clay
18.29		Gray Clay & Rocks
27.43		Gray Hard Clay
32.00		Greenish Gray Shale
33.53		Green Sandy Shale
34.44		Soft Sandstone
35.05		Sandstone
36.58		Sandy Shale
36.88		Brown Shale & Coal
40.23		Greenish Gray Shale
43.89		Coarse Grained Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 36.37 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
2006/10/13	54.55	9.14

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
43.89 m		2006/10/09	2006/10/12

Borehole

Diameter (cm)	From (m)	To (m)
17.15	0.00	43.89

Surface Casing (if applicable)
Steel
Size OD : 14.13 cm
Wall Thickness : 0.478 cm
Bottom at : 28.96 m

Well Casing/Liner
Plastic
Size OD : 11.43 cm
Wall Thickness : 0.546 cm
Top at : 0.00 m
Bottom at : 42.67 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
33.53	42.67	0.051		7.62

Perforated by Machine

Annular Seal Driven & Cuttings
Placed from 0.00 m to 33.53 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type Artificial
Grain Size 10/20
Amount 550.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 1630003
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 5330	WESTLOCK	AB	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NE	29	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308600 Longitude -113.857000
How Location Obtained
Not Verified

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level 60.96 cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 36.37 L/min
Recommended Pump Intake Depth (From TOC) 30.48 m
Pump Installed Yes Depth m
Type SUB @ 100 FT. Make H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Remedial Action Taken
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well

TRACE COAL AT 121 FT BELOW GROUND. ALSO FRAC SAND USED FOR SEAL FROM 0 TO 110 FT.

Yield Test

Measurement in Metric

Test Date	Start Time	Static Water Level
2006/10/13	12:00 AM	9.14 m

Taken From Ground Level
Depth to water level

Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
9.14	0:00	
	40:00	10.06
	50:00	9.75

Method of Water Removal
Type Air
Removal Rate 54.55 L/min
Depth Withdrawn From 30.48 m

If water removal period was < 2 hours, explain why
WATER LEVEL RECOVERED TO 90% OF STATIC WATER LEVEL.

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner
Date approval holder signed

Printed on 3/24/2025 11:42:00 AM

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 1630006
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 5330	WESTLOCK	AB	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
762.00 m from North
30.48 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.306790 Longitude -113.842190
How Location Obtained
Not Verified

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
1.22		Organic Matter
2.44		Gravel
7.62		Gray Sandy Clay
39.62		Gray Stoney Clay
44.81		Gray Shale
45.11		Coal
45.72		Sandy Shale
48.16		Gray Shale
49.07		Sandy Shale
51.82		Green Shale
54.86		Gray Shale
56.69		Sandy Shale
57.61		Gray Sandstone
64.62		Gray Shale
67.06		Sandy Shale
69.49		Brown Shale
70.10		Coal
73.15		Brown Shale
73.76		Coal
81.69		Gray Shale
82.30		Sandstone
85.34		Sandy Shale
88.39		Gray Shale
89.00		Sandstone
106.68		Sandy Shale & Sandstone
109.73		Gray Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
2001/10/09	11.37	10.88

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
109.73 m		2001/10/04	2001/10/08

Borehole

Diameter (cm)	From (m)	To (m)
17.15	0.00	109.73

Surface Casing (if applicable)
Steel
Size OD : 14.13 cm
Wall Thickness : 0.478 cm
Bottom at : 42.67 m

Well Casing/Liner
Plastic
Size OD : 11.43 cm
Wall Thickness : 0.602 cm
Top at : 3.05 m
Bottom at : 106.68 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
88.39	106.68			

Perforated by Machine

Annular Seal Driven & Cuttings
Placed from 0.00 m to 42.67 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings Bottom Fittings

Pack
Type Artificial Grain Size 10/20
Amount 1200.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner Date approval holder signed

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 1630006
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 5330	WESTLOCK	AB	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
762.00 m from North
30.48 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.306790 Longitude -113.842190
How Location Obtained
Not Verified

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level 60.96 cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate L/min
Recommended Pump Intake Depth (From TOC) m
Pump Installed Depth m
Type Make H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD
Additional Comments on Well

LINER BOREHOLE DIAMETER=5.125 IN. AIR TESTED FOR 4 HRS. WITH A 3 HR RETURN. DRILL PIPE WAS USED AT 350 FT.

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date	Start Time	Static Water Level	Depth to water level Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
2001/10/09	12:00 AM	10.88 m			

Method of Water Removal
Type Air
Removal Rate 11.37 L/min
Depth Withdrawn From m

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner
Date approval holder signed

Alberta Water Well Drilling Report

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.

View in Imperial | **Export to Excel**

GOWN ID

GIC Well ID 250394
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1981/09/21

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN COLONY	PIBROCH				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.306755 Longitude -113.841025
How Location Obtained
Map

Elevation 624.84 m
How Elevation Obtained
Estimated

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
6.10		Yellow Clay
12.19		Blue Clay
15.24		Sand
21.34		Blue Clay
24.38		Sand
25.91		Blue Clay
28.96		Gray Sandstone
42.67		Gray Shale
43.28		Coal
45.11		Brown Shale
50.29		Green Shale
51.82		Gray Sandstone
54.86		Gray Shale
57.91		Gray Sandstone
70.10		Gray Shale
70.71		Coal
76.20		Brown Shale
80.77		Gray Shale
83.82		Gray Sandstone
94.49		Gray Shale
97.54		Gray Sandstone
100.58		Gray Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 13.64 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1981/06/09	18.18	30.48

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
100.58 m		1981/06/04	1981/06/09

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	100.58

Surface Casing (if applicable)
Galvanized Steel
Size OD : 11.58 cm
Wall Thickness : 0.358 cm
Bottom at : 76.81 m

Well Casing/Liner
Size OD : 0.00 cm
Wall Thickness : 0.000 cm
Top at : 0.00 m
Bottom at : 0.00 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)

Perforated by

Annular Seal Driven
Placed from 0.00 m to 76.81 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings Bottom Fittings

Pack
Type Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MEASURES, CLARK DRILLING

Copy of Well report provided to owner Date approval holder signed

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 250394
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1981/09/21

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN COLONY	PIBROCH				

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.306755 Longitude -113.841025
How Location Obtained
Map

Elevation 624.84 m
How Elevation Obtained
Estimated

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 13.64 L/min
Recommended Pump Intake Depth (From TOC) 74.68 m
Pump Installed
Depth m
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth m
Gas
Depth m
Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD
Additional Comments on Well
DRILLER REPORTS WATER IS SOFT

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date	Start Time	Static Water Level	Depth to water level Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
1981/06/09	12:00 AM	30.48 m			

Method of Water Removal
Type Air
Removal Rate 18.18 L/min
Depth Withdrawn From 53.34 m

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MEASURES, CLARK DRILLING

Copy of Well report provided to owner
Date approval holder signed

Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 291151
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1999/02/03

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
304.80 m from South
121.92 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.307687 Longitude -113.839807
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Domestic

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
6.10		Brown Clay & Rocks
18.29		Gray Clay & Rocks
22.86		Gray Clay
24.38		Gray Shale
27.43		Greenish Gray Shale
28.96		Gray Shale
30.48		Sandy Shale
30.78		Sandstone
41.45		Greenish Gray Shale
42.37		Sandy Shale
45.42		Greenish Gray Shale
46.63		Sandstone
49.07		Sandy Shale
54.56		Greenish Gray Shale
54.86		Sandstone
56.39		Sandy Shale
65.53		Greenish Gray Shale
67.06		Brown Shale
71.32		Greenish Gray Shale
72.24		Coal
74.37		Sandy Shale & Sandstone
78.03		Greenish Gray Shale
78.64		Coal
79.55		Greenish Gray Shale
82.30		Fine Grained Shale
91.44		Gray Sand & Sandstone
94.49		Gray Shale
97.54		Gray Sandy Sand & Shale
99.06		Greenish Gray Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 18.18 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1995/10/26	18.18	22.43

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
99.06 m		1995/10/23	1995/10/26

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	99.06

Surface Casing (if applicable)
Steel
Size OD : 14.12 cm
Wall Thickness : 0.478 cm
Bottom at : 25.30 m

Well Casing/Liner
Plastic
Size OD : 11.43 cm
Wall Thickness : 0.602 cm
Top at : 6.10 m
Bottom at : 99.06 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
73.15	79.25	0.051		7.62
85.34	97.54	0.000		0.00

Perforated by Machine

Annular Seal Driven
Placed from 22.86 m to 25.30 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type Artificial
Grain Size 10-20
Amount 1000.00 Pounds

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*

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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GOWN ID

GIC Well ID 291151
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1999/02/03

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	11	28	61	26	4				

Measured from Boundary of
304.80 m from South
121.92 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.307687 Longitude -113.839807
How Location Obtained: Map

Elevation m
How Elevation Obtained: Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 18.18 L/min
Recommended Pump Intake Depth (From TOC) 82.30 m
Pump Installed Yes Depth m
Type SUB Make H.P. .75
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well
DRILLER REPORTS DISTANCE FROM TOP OF CASING TO GROUND LEVEL: 2'.

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date 1995/10/26
Start Time 12:00 AM
Static Water Level 22.43 m

Method of Water Removal
Type Pump
Removal Rate 18.18 L/min
Depth Withdrawn From 83.82 m

If water removal period was < 2 hours, explain why

Depth to water level Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
22.43	0:00	
24.36	1:00	
26.24	2:00	71.32
28.25	3:00	69.59
30.02	4:00	68.07
31.72	5:00	66.65
33.73	6:00	65.18
35.81	7:00	63.91
38.05	8:00	62.51
39.72	9:00	61.39
41.50	10:00	60.27
44.71	12:00	58.22
47.50	14:00	56.31
50.01	16:00	54.66
54.35	20:00	51.82
58.45	25:00	48.67
61.52	30:00	46.33
63.96	35:00	44.58
65.81	40:00	43.13
68.45	50:00	40.90
70.10	60:00	39.45
71.80	75:00	37.90
72.62	90:00	36.83
72.62	105:00	35.97
	120:00	35.38

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

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 Imperial | Export to Excel

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

GIC Well ID 1630088
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2007/09/19

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH HUTTERITE COLONY	P.O. BOX 5330	WESTLOCK	ALBERTA	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	14	28	61	26	4				

Measured from Boundary of
6.10 m from North
60.96 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.310410 Longitude -113.842190
How Location Obtained: Not Verified

Elevation m
How Elevation Obtained: Not Obtained

Drilling Information

Method of Drilling: Rotary

Proposed Well Use: Domestic & Stock

Type of Work: New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
1.22		Organic Matter
1.83		Topsoil
6.71		Brown Clay
25.91		Gray Clay & Rocks
29.57		Gray Clay
33.53		Silty Sand
36.58		Greenish Gray Shale
38.10		Brown Shale
38.40		Brown Sandstone
40.23		Sandy Shale
43.28		Gray Shale
44.20		Coal
45.11		Gray Shale
48.46		Greenish Gray Shale
49.68		Sandstone & Shale Ledges
53.95		Gray Shale
57.30		Sandy Shale & Coal
59.44		Sandstone & Shale Ledges
60.96		Gray Shale
64.01		Shale & Sandstone
68.88		Gray Shale
69.49		Coal
71.93		Dark Shale
73.15		Black Shale & Coal
77.42		Gray Sandy Shale
85.34		Gray Shale
87.78		Sandy Shale
95.10		Gray Shale
101.80		Gray Sandstone
103.63		Gray Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 81.83 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1999/05/20	81.83	35.54

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
103.63 m	103.63 m	1999/02/08	1999/02/14

Borehole

Diameter (cm)	From (m)	To (m)
17.15	0.00	36.58

Surface Casing (if applicable): Steel
Size OD : 14.12 cm
Wall Thickness : 0.478 cm
Bottom at : 36.58 m

Well Casing/Liner: Plastic
Size OD : 11.43 cm
Wall Thickness : 0.602 cm
Top at : 0.00 m
Bottom at : 103.63 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
95.10	101.19	0.051		7.62

Perforated by: Machine

Annular Seal
Placed from m to m
Amount

Other Seals

Type	At (m)
Driven	33.53
Driven	36.58

Screen Type
Size OD : cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type: Artificial
Grain Size: 10/20
Amount: 900.00 Pounds

Contractor Certification

Name of Journeyman responsible for drilling/construction of well: RENE ARTS
Certification No: VC7442
Company Name: RENE ARTS WATERWELL LTD.
Copy of Well report provided to owner
Date approval holder signed: 1999/02/08

Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 1630088
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2007/09/19

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH HUTTERITE COLONY	P.O. BOX 5330	WESTLOCK	ALBERTA	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	14	28	61	26	4				

Measured from Boundary of
6.10 m from North
60.96 m from East

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.310410 Longitude -113.842190
How Location Obtained
Not Verified

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level 60.96 cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 81.83 L/min
Recommended Pump Intake Depth (From TOC) 85.34 m
Pump Installed Yes Depth 85.34 m
Type Submersible Make H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taken
Submitted to ESRD
Sample Collected for Potability Submitted to ESRD

Additional Comments on Well
PURPOSE ALSO = FEEDLOT.

Yield Test

Taken From Ground Level
Depth to water level
Measurement in Metric

Test Date	Start Time	Static Water Level
1999/05/20	8:00 AM	35.54 m

Method of Water Removal
Type Pump
Removal Rate 81.83 L/min
Depth Withdrawn From 85.34 m

If water removal period was < 2 hours, explain why

Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
35.54	0:00	65.78
45.72	1:00	59.74
51.21	2:00	54.62
54.56	3:00	50.14
56.39	4:00	47.34
57.58	5:00	45.57
58.46	6:00	44.32
59.13	7:00	43.43
59.65	8:00	42.73
60.08	9:00	42.25
60.41	10:00	41.85
60.99	12:00	41.21
61.42	14:00	40.72
61.75	16:00	40.36
62.24	20:00	39.81
62.73	25:00	39.30
63.12	30:00	38.92
63.40	35:00	38.65
63.73	40:00	38.40
64.43	50:00	38.04
64.50	60:00	37.76
64.89	75:00	37.46
65.26	90:00	37.25
65.53	105:00	36.91
65.78	120:00	36.73

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner

Date approval holder signed
1999/02/08

Alberta Water Well Drilling Report

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.

View in Imperial | Export to Excel

GOWN ID

GIC Well ID 250397
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1983/06/27

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Unknown

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
14.33		Clay
14.63		Boulders
17.68		Sand
18.29		Boulders
26.21		Soft Clay
36.58		Gray Shale
41.15		Sandy Shale
42.67		Gray Shale
43.89		Green Shale
46.63		Gray Shale & Coal
67.06		Gray Shale
68.28		Coal
78.64		Gray Shale
82.30	Yes	Water Bearing Sandstone
86.56		Gray Shale
88.09	Yes	Water Bearing Sandstone
89.61		Gray Shale
91.44		Brown Shale & Coal

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 0.00 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1983/04/11	68.19	7.01

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
91.44 m		1983/04/06	1983/04/11

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	91.44

Surface Casing (if applicable)
Steel
Size OD : 14.12 cm
Wall Thickness : 0.396 cm
Bottom at : 45.72 m

Well Casing/Liner
Steel
Size OD : 11.58 cm
Wall Thickness : 0.000 cm
Top at : 0.00 m
Bottom at : 91.44 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
79.25	91.44	0.318		30.48

Perforated by Torch

Annular Seal Driven
Placed from 0.00 m to 45.72 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings Bottom Fittings

Pack
Type Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
BIG IRON DRILLING LTD.

Copy of Well report provided to owner *Date approval holder signed*

Water Well Drilling Report

View in Imperial | Export to Excel

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GOWN ID

GIC Well ID 250397
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1983/06/27

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH COLONY	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 0.00 L/min
Recommended Pump Intake Depth (From TOC) 79.25 m
Pump Installed Yes Depth m
Type SUB Make H.P. 1
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Remedial Action Taken
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well
DRILLER REPORTS WATER IS SOFT

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date	Start Time	Static Water Level	Depth to water level Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
1983/04/11	12:00 AM	7.01 m			

Method of Water Removal
Type Pump
Removal Rate 68.19 L/min
Depth Withdrawn From 91.44 m

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
BIG IRON DRILLING LTD.

Copy of Well report provided to owner
Date approval holder signed

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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GOWN ID

GIC Well ID 250404
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/08/15

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN#WELL 2	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
19.81		Soft Clay
63.40		Clay
74.68		Sandstone
80.16		Shale
91.44		Sandstone
94.49		Fractured Shale
99.97		Sandstone
103.63		Shale

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 68.19 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1988/06/22	27.28	3.66

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
103.63 m		1988/06/22	1988/06/22

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	103.63

Surface Casing (if applicable)
Steel
Size OD : 14.12 cm
Wall Thickness : 0.478 cm
Bottom at : 24.38 m

Well Casing/Liner
Plastic
Size OD : 11.58 cm
Wall Thickness : 0.635 cm
Top at : 21.34 m
Bottom at : 103.63 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
73.15	103.63	0.318		7.62

Perforated by Machine

Annular Seal Driven & Welded Ring
Placed from 0.00 m to 24.38 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type
Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MAHAR, VERN DRILLING SERVICES

Copy of Well report provided to owner *Date approval holder signed*

Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 250404
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/08/15

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN#WELL 2	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level cm
Is Artesian Flow
Rate L/min
Is Flow Control Installed
Describe

Recommended Pump Rate 68.19 L/min
Recommended Pump Intake Depth (From TOC) 91.44 m
Pump Installed Depth m
Type Make H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS) Depth m
Gas Depth m
Remedial Action Taken
Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD
Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well
WATER AT 300-328'

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date	Start Time	Static Water Level
1988/06/22	12:00 AM	3.66 m

Depth to water level

Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)

Method of Water Removal
Type Pump
Removal Rate 27.28 L/min
Depth Withdrawn From 13.72 m

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MAHAR, VERN DRILLING SERVICES

Copy of Well report provided to owner | Date approval holder signed

Printed on 3/24/2025 11:43:42 AM

Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 250401
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/08/15

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN#WELL 1	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Proposed Well Use
Stock

Type of Work
New Well

Formation Log

Measurement in Metric

Depth from ground level (m)	Water Bearing	Lithology Description
19.81		Soft Clay & Sand
52.43		Hard Clay
53.64	Yes	Water Bearing Coal
64.01		Hard Clay
97.54		Shale & Sandstone

Yield Test Summary

Measurement in Metric

Recommended Pump Rate 0.00 L/min

Test Date	Water Removal Rate (L/min)	Static Water Level (m)
1988/06/21	13.64	0.00

Well Completion

Measurement in Metric

Total Depth Drilled	Finished Well Depth	Start Date	End Date
97.54 m		1988/06/21	1988/06/21

Borehole

Diameter (cm)	From (m)	To (m)
0.00	0.00	97.54

Surface Casing (if applicable)
Steel
Size OD : 14.12 cm
Wall Thickness : 0.478 cm
Bottom at : 24.38 m

Well Casing/Liner
Size OD : 0.00 cm
Wall Thickness : 0.000 cm
Top at : 0.00 m
Bottom at : 0.00 m

Perforations

From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)

Perforated by

Annular Seal Driven & Welded Ring
Placed from 0.00 m to 24.38 m
Amount

Other Seals

Type	At (m)

Screen Type
Size OD : 0.00 cm

From (m)	To (m)	Slot Size (cm)

Attachment
Top Fittings
Bottom Fittings

Pack
Type
Grain Size
Amount

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MAHAR, VERN DRILLING SERVICES

Copy of Well report provided to owner
Date approval holder signed

Alberta Water Well Drilling Report

View in Imperial | Export to Excel

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

GIC Well ID 250401
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1988/08/15

Well Identification and Location

Measurement in Metric

Owner Name	Address	Town	Province	Country	Postal Code
HUTTERIAN BRETHREN#WELL 1	P.O. BOX 1544 WESTLOCK				T0G 2L0

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
m from
m from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308563 Longitude -113.844117
How Location Obtained
Map

Elevation m
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Metric

Distance From Top of Casing to Ground Level cm
Is Artesian Flow
Rate L/min

Is Flow Control Installed
Describe

Recommended Pump Rate 0.00 L/min
Recommended Pump Intake Depth (From TOC) 0.00 m

Pump Installed
Depth m
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth m
Gas
Depth m

Well Disinfected Upon Completion
Geophysical Log Taken
Remedial Action Taken
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well
DRILLER REPORTS WATER QUANTITY IS INSUFFICIENT FOR PROPOSED USE

Yield Test

Taken From Ground Level
Measurement in Metric

Test Date	Start Time	Static Water Level	Depth to water level Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
1988/06/21	12:00 AM	0.00 m			

Method of Water Removal
Type Air
Removal Rate 13.64 L/min
Depth Withdrawn From 12.19 m

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
UNKNOWN NA DRILLER

Certification No
1

Company Name
MAHAR, VERN DRILLING SERVICES

Copy of Well report provided to owner
Date approval holder signed

Alberta Water Well Drilling Report

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.

View in Metric | Export to Excel

GOWN ID

GIC Well ID 1630086
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2007/09/19

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH HUTTERITE COLONY	P.O. BOX 5330	WESTLOCK	ALBERTA	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308600 Longitude -113.844000
How Location Obtained
Not Verified

Elevation ft
How Elevation Obtained
Not Obtained

Drilling Information

Method of Drilling
Rotary

Type of Work
New Well

Proposed Well Use
Co-ops (Colonies)

Formation Log

Measurement in Imperial

Depth from ground level (ft)	Water Bearing	Lithology Description
30.00		Brown Clay
80.00		Gray Clay & Rocks
98.00		Sandy Clay
110.00		Gray Clay
120.00		Sandy Clay
122.00		Gray Clay
140.00		Coarse Grained Sand & Gravel

Yield Test Summary

Measurement in Imperial

Recommended Pump Rate igpm

Test Date	Water Removal Rate (igpm)	Static Water Level (ft)
1999/06/27		0.00

Well Completion

Measurement in Imperial

Total Depth Drilled	Finished Well Depth	Start Date	End Date
140.00 ft	140.00 ft	1999/06/24	1999/06/27

Borehole

Diameter (in)	From (ft)	To (ft)
6.25	0.00	121.00
5.13	121.00	140.00

Surface Casing (if applicable)
Steel
Size OD : 5.56 in
Wall Thickness : 0.188 in
Bottom at : 121.00 ft

Well Casing/Liner
Plastic
Size OD : 4.50 in
Wall Thickness : 0.237 in
Top at : 0.00 ft
Bottom at : 121.00 ft

Perforations

From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)

Perforated by Unknown

Annular Seal
Placed from ft to ft
Amount

Other Seals

Type	At (ft)
Driven	80.00
Driven	121.00

Screen Type
Size OD : in

From (ft)	To (ft)	Slot Size (in)

Attachment
Top Fittings
Bottom Fittings

Pack
Type Unknown
Grain Size
Amount Unknown

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner
Yes

Date approval holder signed
1999/06/27

Alberta Water Well Drilling Report

View in Metric | Export to Excel

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

GIC Well ID 1630086
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2007/09/19

Well Identification and Location

Measurement in Imperial

Owner Name	Address	Town	Province	Country	Postal Code
PIBROCH HUTTERITE COLONY	P.O. BOX 5330	WESTLOCK	ALBERTA	CA	T7P 2P5

Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description
	NW	28	61	26	4				

Measured from Boundary of
ft from
ft from

GPS Coordinates in Decimal Degrees (NAD 83)
Latitude 54.308600 Longitude -113.844000
How Location Obtained
Not Verified

Elevation ft
How Elevation Obtained
Not Obtained

Additional Information

Measurement in Imperial

Distance From Top of Casing to Ground Level 30.00 in
Is Artesian Flow Yes
Rate 2.00 igpm

Is Flow Control Installed
Describe

Recommended Pump Rate igpm
Recommended Pump Intake Depth (From TOC) ft

Pump Installed
Depth ft
Type
Make
H.P.
Model (Output Rating)

Did you Encounter Saline Water (>4000 ppm TDS)
Depth ft
Gas
Depth ft
Remedial Action Taken

Well Disinfected Upon Completion
Geophysical Log Taken
Submitted to ESRD

Sample Collected for Potability
Submitted to ESRD

Additional Comments on Well

LOCATION NOT PROVIDED BY DRILLER. LEGAL ASSIGNED BY GIC DEC. 2008 AS PER OTHER WELLS IN SAME AREA.

Yield Test

Taken From Ground Level
Measurement in Imperial

Test Date	Start Time	Static Water Level	Depth to water level: Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
1999/06/27	12:00 AM	0.00 ft			

Method of Water Removal

Type Unknown
Removal Rate igpm
Depth Withdrawn From ft

If water removal period was < 2 hours, explain why

Water Diverted for Drilling

Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well
RENE ARTS

Certification No
VC7442

Company Name
RENE ARTS WATERWELL LTD.

Copy of Well report provided to owner
Yes

Date approval holder signed
1999/06/27

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 Natural Resources Conservation Board

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

	Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY: Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
1	Cory Hamilton	NE 25 61 26 W4		Ag	Cat 1	865 m	N/A	Yes
2	Tymtow	NW 34 61 26 W4		Ag	Cat 1	1995 m	N/A	Yes
3	Dale	NE 30 61 26 W4		Ag	Cat 1	1202 m	N/A	Yes

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

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY: Usable area (ha)	Agreement attached (if required)
	See attached.				
	Total			>2880 ac provided	

* 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)

ROW

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

ALL SIGNATURES IN FILE ☑ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

March 12, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: April 1, 2025

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: Pembina River Natural Gas Co-Op Ltd. ☐ 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

spreading lands

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

MINIMUM DISTANCE SEPARATION

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

Margin of error (if applicable): N/A

Requirements (m): Category 1: 638 m Category 2: 851 m Category 3: 1064 m Category 4: 1702 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: 539 ha

Land base listed: >2880 ac (1165 ha)

Area not suitable: _____

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 Appendix C, Decision Summary BA25010

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. Layer Barn
2. Manure pad

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.	140	30	0	
2.	18	10	0	
			TOTAL CAPACITY	Adequate capacity

☐ 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

All under roof the roof guthers into neaby runoff.

Liner protection

Describe how the physical integrity of the liner will be maintained

Monitor for cracks fix as needed.

NRCB USE ONLY

Requirements met: ☑ YES ☐ NO

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

Concrete liner details

Concrete thickness	Method of sulphate protection:
6"	T50
Concrete strength	**Concrete reinforcement size and spacing**
25 MPA	18" O/C

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)*

NRCB USE ONLY

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

Depth to water table: >6 m Requirements met: ☑ YES ☐ NO

Depth to Uppermost groundwater resource: 37.2 m Requirements met: ☑ YES ☐ NO

ERST completed: ☑ see ERST page for details

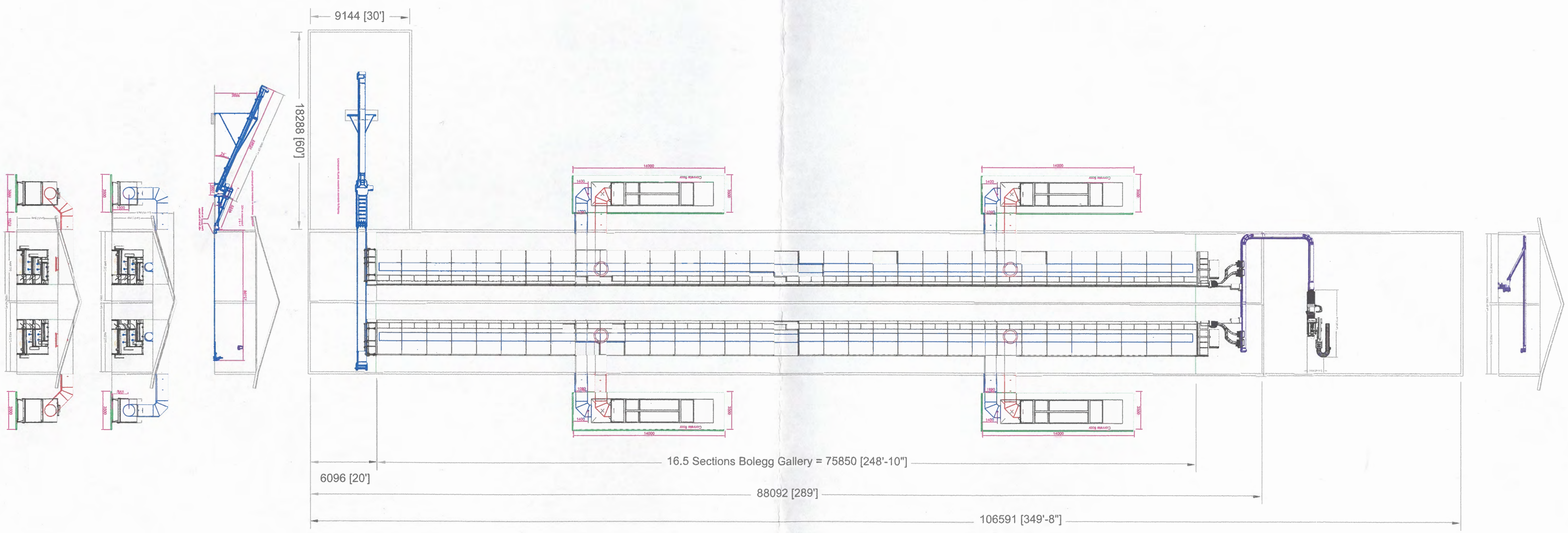
Surface water control systems

Requirements met: ☑ YES ☐ NO Details/comments:

Applicant to provide documentation confirming concrete information.

Concrete liner details

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

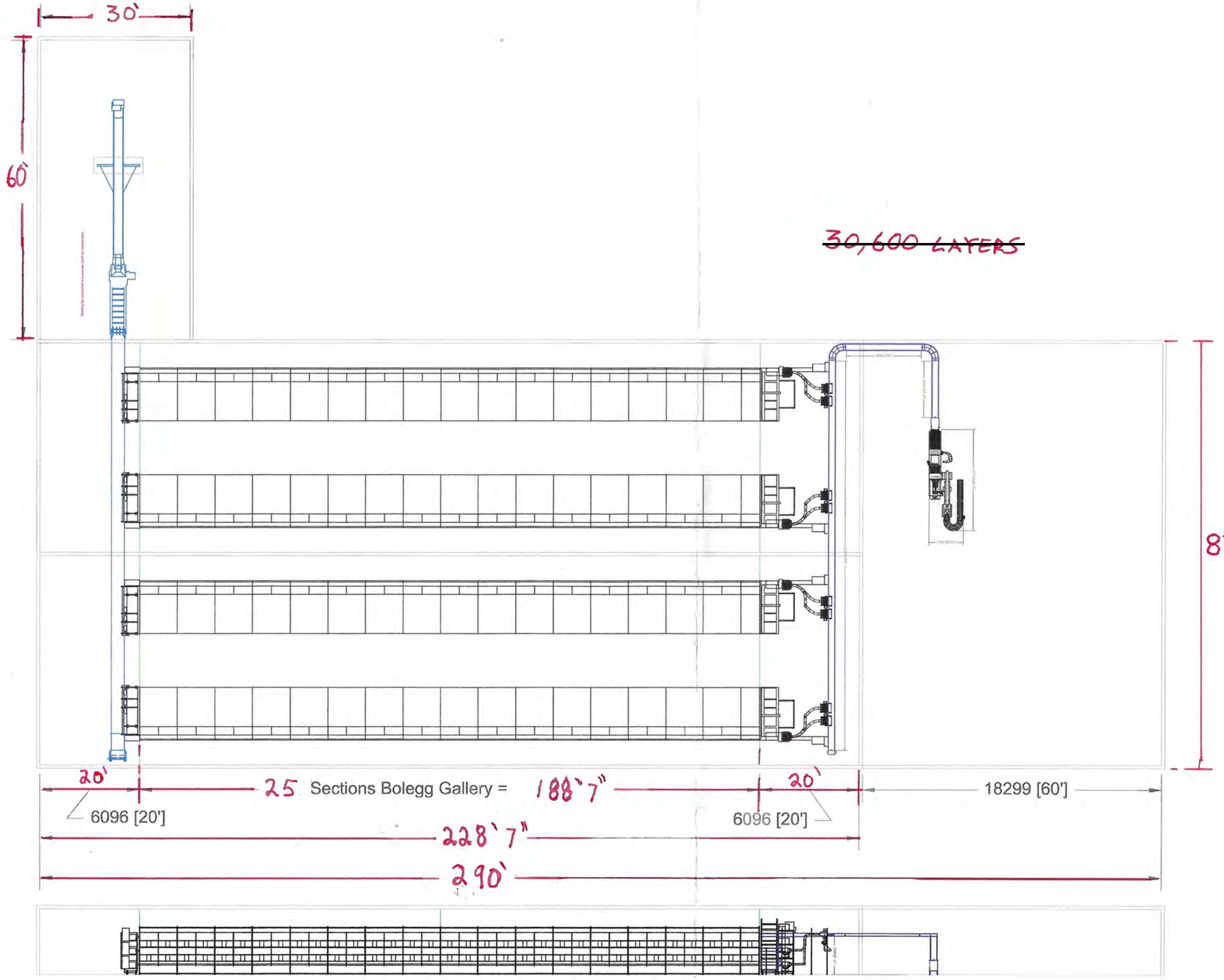


Quote nr.: VEN2401276-1-2

Vencomatic Group
Agro Supply – Prinzen – Vencomatic

Drw.nr.: Pibroch Colony 24-05-31

UPDATED DRAWING JUNE 3, 2025



Quote nr.: VEN2401276-1-1

Vencomatic Group
Agro Supply – Prinzen – Vencomatic

Drw.nr.: Pibroch Colony 24-04-04