

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	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<u>BA25010</u>	<u>W1/2 28-61-26 W4M, NE 29-61-26 W4M</u>

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.

18/3/25
Date of signing

HB of Pibroch
Corporate name (if applicable)

Signature

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	140 x 30
egg collectory / 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

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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 bar	40m x 15 m	
broiler barn	29m x 14m	
turkey/duck/goose barn	29m x 38m pen and shelter	
dairy barn		
dairy pens		
calf barn		

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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

repurpose old barns for pullets

Construction completion date for proposed facilities 2028

Additional information

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

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)

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

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.

Signature of Applicant or Agent



existing Layer barn

Proposed

Part 2 – Technical Requirements

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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?	<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 type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	1	0			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	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			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	Groundwater information	What is the depth to the water table?		>6m		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Groundwater information	What is the depth to the groundwater resource/aquifer you draw water from?	250'			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption		

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



• wells



Water Well Drilling Report

View in Imperial **Export to Excel**

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

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 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					GPS Coordinates in Decimal Degrees (NAD 83)							
609.60 m from South					Latitude 54.310431					Longitude -113.853361		Elevation _____ m
182.88 m from East					How Location Obtained					How Elevation Obtained		
					Map					Not Obtained		

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

Formation Log	Measurement in Metric
Depth from ground level (m)	Water Bearing
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)		Well Casing/Liner		
Steel		Plastic		
Size OD :	14.12 cm	Size OD : 11.43 cm		
Wall Thickness :	0.478 cm	Wall Thickness : 0.602 cm		
Bottom at :	29.26 m	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	Certification No 1
Company Name RENE ARTS WATERWELL LTD.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

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GIC Well ID 291152

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1999/02/03

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 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						GPS Coordinates in Decimal Degrees (NAD 83)						Elevation _____ m	
609.60 m from South						Latitude 54.310431		Longitude -113.853361		How Elevation Obtained			
182.88 m from East						How Location Obtained						Not Obtained	
						Map							

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	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
RENE ARTS WATERWELL LTD.	



Water Well Drilling Report

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

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 Metric	
Owner Name PIBROCH COLONY		Address P.O. BOX 5330			Town WESTLOCK		Province AB	Country CA	Postal Code 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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.308600</u> Longitude <u>-113.857000</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
					Not Verified						

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

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	<u>36.37 L/min</u>		
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)		Well Casing/Liner		
Steel		Plastic		
Size OD :	<u>14.13 cm</u>	Size OD : <u>11.43 cm</u>		
Wall Thickness :	<u>0.478 cm</u>	Wall Thickness : <u>0.546 cm</u>		
Bottom at :	<u>28.96 m</u>	Top at : <u>0.00 m</u>		
		Bottom at : <u>42.67 m</u>		
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 <u>0.00 m</u> to <u>33.53 m</u>				
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 <u>Artificial</u>		Grain Size <u>10/20</u>		
Amount <u>550.00 Pounds</u>				

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**

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

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 Metric
Owner Name PIBROCH COLONY		Address P.O. BOX 5330			Town WESTLOCK		Province AB	Country CA	Postal Code T7P 2P5	
Location	1/4 or LSD NE	SEC 29	TWP 61	RGE 26	W of MER 4	Lot	Block	Plan	Additional Description	
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ m		
_____ m from					Latitude <u>54.308600</u> Longitude <u>-113.857000</u>			How Elevation Obtained		
_____ m from					How Location Obtained			Not Obtained		
					Not Verified					

Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____					60.96 cm					
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____					36.37 L/min		Pump Installed <u>Yes</u>		Depth _____ m	
Recommended Pump Intake Depth (From TOC) _____					30.48 m		Type <u>SUB @ 100 FT.</u>		Make _____ H.P. _____	
					Model (Output Rating) _____					
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____ Depth _____ m		Geophysical Log Taken _____			
					Submitted to ESRD _____					
Additional Comments on Well					Sample Collected for Potability _____			Submitted to ESRD _____		
TRACE COAL AT 121 FT BELOW GROUND. ALSO FRAC SAND USED FOR SEAL FROM 0 TO 110 FT.										

Yield Test			Taken From Ground Level		Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level		Recovery (m)
2006/10/13	12:00 AM	9.14 m	Pumping (m)	Elapsed Time	
			9.14	Minutes:Sec	
Method of Water Removal				0:00	
Type <u>Air</u>				40:00	10.06
Removal Rate _____				50:00	9.75
Depth Withdrawn From _____					
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



Water Well Drilling Report

View in Imperial **Export to Excel**

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

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 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					GPS Coordinates in Decimal Degrees (NAD 83)							
762.00 m from North					Latitude		54.306790		Longitude		-113.842190	
30.48 m from East					Elevation				How Elevation Obtained		Not Obtained	
					How Location Obtained				Not Obtained			

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

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)		Well Casing/Liner	
Steel		Plastic	
Size OD :	14.13 cm	Size OD :	11.43 cm
Wall Thickness :	0.478 cm	Wall Thickness :	0.602 cm
Bottom at :	42.67 m	Top at :	3.05 m
		Bottom at :	106.68 m
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (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



Water Well Drilling Report

View in Imperial **Export to Excel**

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

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 Metric
Owner Name PIBROCH COLONY		Address P.O. BOX 5330			Town WESTLOCK		Province AB	Country CA	Postal Code T7P 2P5	
Location	1/4 or LSD 11	SEC 28	TWP 61	RGE 26	W of MER 4	Lot	Block	Plan	Additional Description	
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ m		
_____ 762.00 m from North					Latitude <u>54.306790</u> Longitude <u>-113.842190</u>			How Elevation Obtained		
_____ 30.48 m from East					How Location Obtained			Not Obtained		
					Not Verified					

Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____					60.96 cm					
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____					L/min		Pump Installed _____		Depth _____ m	
Recommended Pump Intake Depth (From TOC) _____					m		Type _____		Make _____ H.P. _____	
					Model (Output Rating) _____					
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____ Depth _____ m		Geophysical Log Taken _____			
					Submitted to ESRD _____					
Additional Comments on Well					Sample Collected for Potability _____			Submitted to ESRD _____		
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		
2001/10/09	12:00 AM	10.88 m	Pumping (m)	Elapsed Time	Recovery (m)
			Minutes:Sec		
Method of Water Removal					
Type <u>Air</u>					
Removal Rate <u>11.37</u> 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



Water Well Drilling Report

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

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

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 Metric		
Owner Name HUTTERIAN BRETHREN COLONY		Address PIBROCH			Town		Province		Country		Postal Code	
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					GPS Coordinates in Decimal Degrees (NAD 83)							
_____ m from					Latitude 54.306755		Longitude -113.841025		Elevation 624.84 m			
_____ m from					How Location Obtained					How Elevation Obtained		
					Map					Estimated		

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

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)			Well Casing/Liner		
Galvanized Steel					
Size OD :	11.58 cm	Size OD :	0.00 cm		
Wall Thickness :	0.358 cm	Wall Thickness :	0.000 cm		
Bottom at :	76.81 m	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)	
Performed 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



Water Well Drilling Report

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

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GOWN ID

Well Identification and Location										Measurement in Metric
Owner Name HUTTERIAN BRETHREN COLONY	Address PIBROCH			Town			Province		Country	Postal Code
Location	1/4 or LSD 11	SEC 28	TWP 61	RGE 26	W of MER 4	Lot	Block	Plan	Additional Description	
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)				Elevation	
_____ m from					Latitude 54.306755		Longitude -113.841025		624.84 m	
_____ m from					How Location Obtained				How Elevation Obtained	
					Map				Estimated	
Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____ cm										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____					13.64 L/min		Pump Installed _____		Depth _____ m	
Recommended Pump Intake Depth (From TOC) _____					74.68 m		Type _____		Make _____ H.P. _____	
										Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____	
										Submitted to ESRD _____
Additional Comments on Well										Sample Collected for Potability _____
DRILLER REPORTS WATER IS SOFT										Submitted to ESRD _____

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

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

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 Metric	
Owner Name PIBROCH COLONY		Address P.O. BOX 1544 WESTLOCK		Town	Province	Country	Postal Code T0G 2L0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block
	11	28	61	26	4		
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ m
304.80 m from South				Latitude 54.307687	Longitude -113.839807	How Elevation Obtained	
121.92 m from East				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 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)		Well Casing/Liner	
Steel		Plastic	
Size OD :	14.12 cm	Size OD :	11.43 cm
Wall Thickness :	0.478 cm	Wall Thickness :	0.602 cm
Bottom at :	25.30 m	Top at :	6.10 m
		Bottom at :	99.06 m
Perforations			
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (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



Water Well Drilling Report

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GIC Well ID 291151

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1999/02/03

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GOWN ID

Well Identification and Location										Measurement in Metric		
Owner Name PIBROCH COLONY		Address P.O. BOX 1544 WESTLOCK			Town		Province		Country		Postal Code 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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
304.80 m from South					Latitude 54.307687 Longitude -113.839807					How Elevation Obtained		
121.92 m from East					How Location Obtained					Not Obtained		
					Map							

Additional Information										Measurement in Metric			
Distance From Top of Casing to Ground Level _____ cm													
Is Artesian Flow _____					Is Flow Control Installed _____								
Rate _____ L/min					Describe _____								
Recommended Pump Rate _____ 18.18 L/min					Pump Installed Yes		Depth _____ m						
Recommended Pump Intake Depth (From TOC) _____ 82.30 m					Type SUB		Make _____		H.P. .75				
Model (Output Rating) _____													
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____						
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____				
Submitted to ESRD _____													
Additional Comments on Well										Sample Collected for Potability _____		Submitted to ESRD _____	
DRILLER REPORTS DISTANCE FROM TOP OF CASING TO GROUND LEVEL: 2'													

Yield Test			Taken From Ground Level		Measurement in Metric	
Test Date	Start Time	Static Water Level	Depth to water level		Recovery (m)	
1995/10/26	12:00 AM	22.43 m	Pumping (m)	Elapsed Time		
				Minutes:Sec		
Method of Water Removal			22.43	0:00		
Type Pump _____			24.36	1:00		
Removal Rate _____ 18.18 L/min			26.24	2:00	71.32	
Depth Withdrawn From _____ 83.82 m			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

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

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GOWN ID

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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
6.10 m from North					Latitude 54.310410 Longitude -113.842190					How Elevation Obtained	
60.96 m from East					How Location Obtained					Not Obtained	
					Not Verified						

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

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)		Well Casing/Liner		
Steel	Plastic			
Size OD : 14.12 cm	Size OD : 11.43 cm			
Wall Thickness : 0.478 cm	Wall Thickness : 0.602 cm			
Bottom at : 36.58 m	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

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GIC Well ID 1630088

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 2007/09/19

GOWN ID

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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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m		
<u> </u> 6.10 m from North					Latitude <u>54.310410</u> Longitude <u>-113.842190</u>					How Elevation Obtained		
<u> </u> 60.96 m from East					How Location Obtained					Not Obtained		
					Not Verified							

Additional Information										Measurement in Metric			
Distance From Top of Casing to Ground Level _____										60.96 cm			
Is Artesian Flow _____					Is Flow Control Installed _____								
Rate _____ L/min					Describe _____								
Recommended Pump Rate _____					81.83 L/min		Pump Installed <u>Yes</u>		Depth _____			85.34 m	
Recommended Pump Intake Depth (From TOC) _____					85.34 m		Type <u>Submersible</u>		Make _____		H.P. _____		
Model (Output Rating) _____													
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____						
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____				
Submitted to ESRD _____													
Additional Comments on Well					Sample Collected for Potability _____				Submitted to ESRD _____				
PURPOSE ALSO = FEEDLOT.													

Yield Test			Taken From Ground Level			Measurement in Metric	
Test Date	Start Time	Static Water Level	Depth to water level				
1999/05/20	8:00 AM	35.54 m	Pumping (m)	Elapsed Time	Recovery (m)		
				Minutes:Sec			
Method of Water Removal			35.54	0:00	65.78		
Type <u>Pump</u>			45.72	1:00	59.74		
Removal Rate <u>81.83 L/min</u>			51.21	2:00	54.62		
Depth Withdrawn From <u>85.34 m</u>			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		Certification No	
RENE ARTS		VC7442	
Company Name		Copy of Well report provided to owner Date approval holder signed	
RENE ARTS WATERWELL LTD.		1999/02/08	



Water Well Drilling Report

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

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 Metric					
Owner Name PIBROCH COLONY		Address P.O. BOX 1544 WESTLOCK		Town		Province		Country		Postal Code 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						GPS Coordinates in Decimal Degrees (NAD 83)				Elevation _____ m	
_____ m from						Latitude <u>54.308563</u> Longitude <u>-113.844117</u>				How Elevation Obtained	
_____ m from						How Location Obtained				Not Obtained	
_____ Map											

Drilling Information	
Method of Drilling Unknown	Type of Work New Well
Proposed Well Use Stock	

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	<u>0.00 L/min</u>		
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)			Well Casing/Liner		
Steel	Size OD : <u>14.12 cm</u>	Steel	Size OD : <u>11.58 cm</u>		
Wall Thickness : <u>0.396 cm</u>	Bottom at : <u>45.72 m</u>	Wall Thickness : <u>0.000 cm</u>	Top at : <u>0.00 m</u>	Bottom at : <u>91.44 m</u>	
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 <u>Torch</u>					
Annular Seal Driven					
Placed from <u>0.00 m</u> to <u>45.72 m</u>					
Amount _____					
Other Seals					
Type _____				At (m) _____	
Screen Type					
Size OD : <u>0.00 cm</u>					
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**

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

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name PIBROCH COLONY		Address P.O. BOX 1544 WESTLOCK			Town		Province		Country		Postal Code T0G 2L0
Location	1/4 or LSD NW	SEC 28	TWP 61	RGE 26	W of MER 4	Lot	Block	Plan	Additional Description		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ m	
_____ m from					Latitude <u>54.308563</u> Longitude <u>-113.844117</u>					How Elevation Obtained	
_____ m from					How Location Obtained					Not Obtained	
_____ m from					Map						

Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____ cm										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____ 0.00 L/min					Pump Installed <u>Yes</u>		Depth _____ m			
Recommended Pump Intake Depth (From TOC) _____ 79.25 m					Type <u>SUB</u>		Make _____		H.P. <u>1</u>	
										Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____	
										Submitted to ESRD _____
Additional Comments on Well										Sample Collected for Potability _____
DRILLER REPORTS WATER IS SOFT										Submitted to ESRD _____

Yield Test			Taken From Ground Level		Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level		
1983/04/11	12:00 AM	7.01 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water Removal					
Type <u>Pump</u>					
Removal Rate <u>68.19 L/min</u>					
Depth Withdrawn From <u>91.44 m</u>					
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



Water Well Drilling Report

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

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 Metric		
Owner Name HUTTERIAN BROTHERS#WELL 2		Address P.O. BOX 1544 WESTLOCK		Town	Province	Country	Postal Code 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				GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ m		
_____ m from				Latitude <u>54.308563</u> Longitude <u>-113.844117</u>			How Elevation Obtained _____		
_____ m from				How Location Obtained _____			Not Obtained		
_____ m from				Map					

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

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	<u>68.19 L/min</u>	
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)		Well Casing/Liner		
Steel		Plastic		
Size OD :	<u>14.12 cm</u>	Size OD :	<u>11.58 cm</u>	
Wall Thickness :	<u>0.478 cm</u>	Wall Thickness :	<u>0.635 cm</u>	
Bottom at :	<u>24.38 m</u>	Top at :	<u>21.34 m</u>	
		Bottom at :	<u>103.63 m</u>	
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
Performed by Machine				
Annular Seal Driven & Welded Ring				
Placed from <u>0.00 m</u> to <u>24.38 m</u>				
Amount _____				
Other Seals				
Type				At (m)

Screen Type				
Size OD : <u>0.00 cm</u>				
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**

GIC Well ID 250404

GoA Well Tag No.

Drilling Company Well ID

Date Report Received 1988/08/15

GOWN ID

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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					GPS Coordinates in Decimal Degrees (NAD 83)				Elevation _____ m		
_____ m from					Latitude <u>54.308563</u> Longitude <u>-113.844117</u>				How Elevation Obtained		
_____ m from					Map				Not Obtained		

Additional Information										Measurement in Metric
Distance From Top of Casing to Ground Level _____ cm										
Is Artesian Flow _____					Is Flow Control Installed _____					
Rate _____ L/min					Describe _____					
Recommended Pump Rate _____ 68.19 L/min					Pump Installed _____		Depth _____ m			
Recommended Pump Intake Depth (From TOC) _____ 91.44 m					Type _____		Make _____		H.P. _____	
										Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____			
Remedial Action Taken _____					Gas _____		Depth _____ m		Geophysical Log Taken _____	
										Submitted to ESRD _____
Additional Comments on Well										Sample Collected for Potability _____
WATER AT 300-328'										Submitted to ESRD _____

Yield Test			Taken From Ground Level			Measurement in Metric
Test Date	Start Time	Static Water Level	Depth to water level			
1988/06/22	12:00 AM	3.66 m	Pumping (m)	Elapsed Time	Recovery (m)	
				Minutes:Sec		
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	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
MAHAR, VERN DRILLING SERVICES	



Water Well Drilling Report

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

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GOWN ID

Well Identification and Location							Measurement in Metric		
Owner Name HUTTERIAN BRETHREN#WELL 1		Address P.O. BOX 1544 WESTLOCK		Town	Province	Country	Postal Code T0G 2L0		
Location	1/4 or LSD NW	SEC 28	TWP 61	RGE 26	W of MER 4	Lot	Block	Plan	Additional Description
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)			Elevation _____ m		
_____ m from				Latitude <u>54.308563</u> Longitude <u>-113.844117</u>			How Elevation Obtained		
_____ m from				How Location Obtained			Not Obtained		
Map									

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

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)		Well Casing/Liner		
Steel		Steel		
Size OD :	14.12 cm	Size OD :	0.00 cm	
Wall Thickness :	0.478 cm	Wall Thickness :	0.000 cm	
Bottom at :	24.38 m	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



Water Well Drilling Report

View in Imperial **Export to Excel**

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

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GOWN ID

Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country		Postal Code
HUTTERIAN BRETHREN#WELL 1		P.O. BOX 1544 WESTLOCK									TOG 2LO
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				GPS Coordinates in Decimal Degrees (NAD 83)				Elevation _____ m			
_____ m from				Latitude <u>54.308563</u> Longitude <u>-113.844117</u>				How Elevation Obtained			
_____ m from				How Location Obtained				Not Obtained			
_____ m from				Map							

Additional Information										Measurement in Metric	
Distance From Top of Casing to Ground Level _____ cm											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ L/min					Describe _____						
Recommended Pump Rate _____ 0.00 L/min					Pump Installed _____		Depth _____ m				
Recommended Pump Intake Depth (From TOC) _____ 0.00 m					Type _____		Make _____		H.P. _____		
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ m		Well Disinfected Upon Completion _____				
					Gas _____		Depth _____ m		Geophysical Log Taken _____		
Remedial Action Taken					Submitted to ESRD						
Additional Comments on Well					Sample Collected for Potability _____			Submitted to ESRD _____			
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		
1988/06/21	12:00 AM	0.00 m	Pumping (m)	Elapsed Time	Recovery (m)
				Minutes:Sec	
Method of Water Removal					
Type <u>Air</u>					
Removal Rate <u>13.64</u> L/min					
Depth Withdrawn From <u>12.19</u> 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	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
MAHAR, VERN DRILLING SERVICES	



Water Well Drilling Report

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

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GOWN ID

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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ ft	
_____ ft from					Latitude <u>54.308600</u> Longitude <u>-113.844000</u>					How Elevation Obtained	
_____ ft from					How Location Obtained					Not Obtained	
					Not Verified						

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)		Well Casing/Liner		
Steel		Plastic		
Size OD : _____	5.56 in	Size OD : _____		
		4.50 in		
Wall Thickness : _____	0.188 in	Wall Thickness : _____		
		0.237 in		
Bottom at : _____	121.00 ft	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



Water Well Drilling Report

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

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GOWN ID

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					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation _____ ft	
_____ ft from					Latitude <u>54.308600</u> Longitude <u>-113.844000</u>					How Elevation Obtained	
_____ ft from					How Location Obtained					Not Obtained	
					Not Verified						

Additional Information										Measurement in Imperial			
Distance From Top of Casing to Ground Level _____ 30.00 in					Is Artesian Flow <u>Yes</u>							Is Flow Control Installed _____	
Rate _____ 2.00 igpm					Describe _____								
Recommended Pump Rate _____ igpm					Pump Installed _____					Depth _____ ft			
Recommended Pump Intake Depth (From TOC) _____ ft					Type _____					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 _____	
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		Recovery (ft)	
1999/06/27	12:00 AM	0.00 ft	Pumping (ft)	Elapsed Time	Minutes:Sec	
Method of Water Removal						
Type <u>Unknown</u>						
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		Certification No	
RENE ARTS		VC7442	
Company Name		Copy of Well report provided to owner	Date approval holder signed
RENE ARTS WATERWELL LTD.		Yes	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)

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 28 61 264						
② Tymkow	NW 34 61 26 44						
③ Dale	NE 30 61 26 44						

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

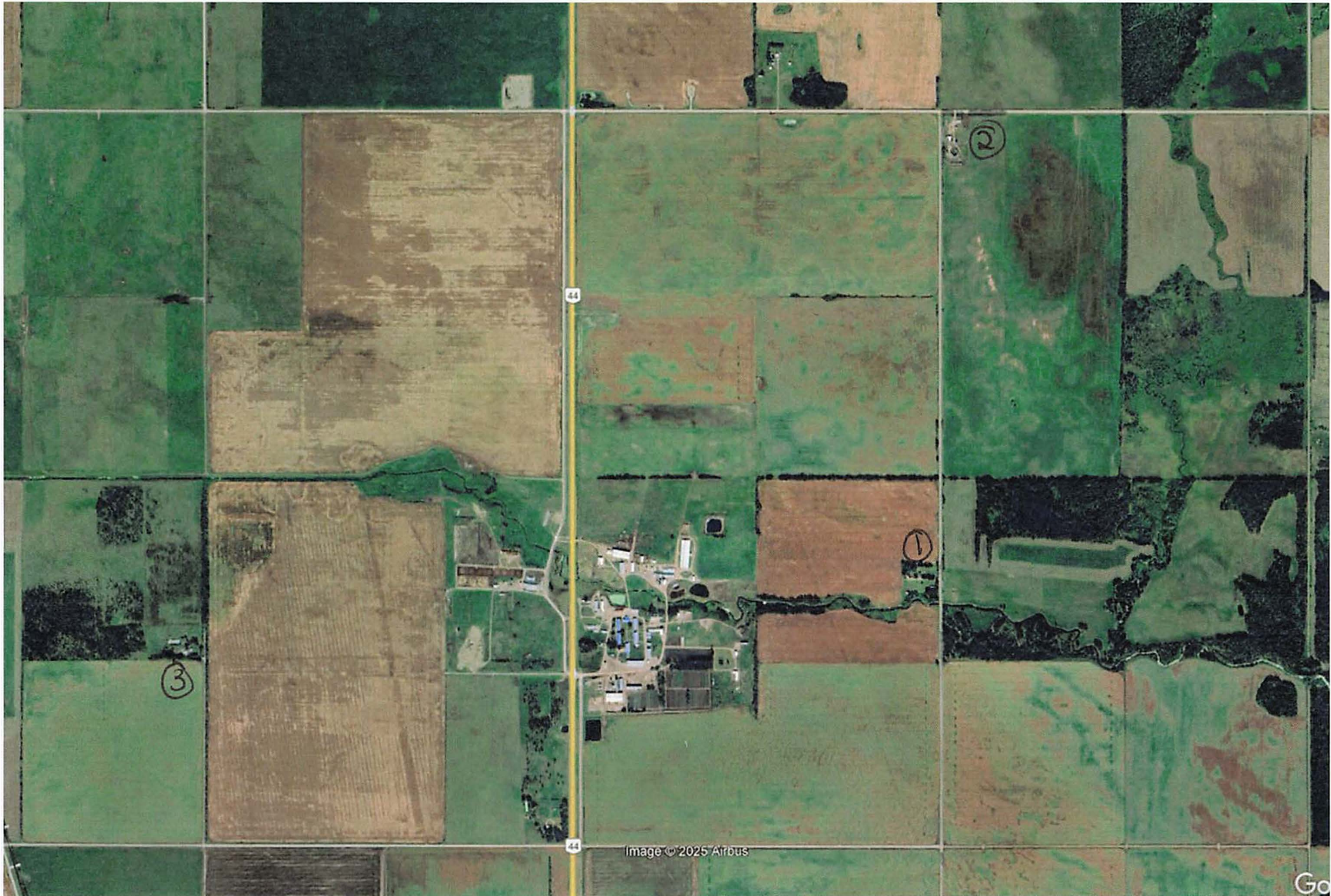
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY	
				Usable area (ha)	Agreement attached (if required)
	See attached.				
Total					

* 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)



SOW

Spreading lands

All Fields 



500 m
1000 ft

 Print  Recentre

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. 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				

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

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: T50
Concrete strength 25 MPa	Concrete reinforcement size and spacing 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: _____ Requirements met: YES NO

Depth to Uppermost groundwater resource: _____ Requirements met: YES NO

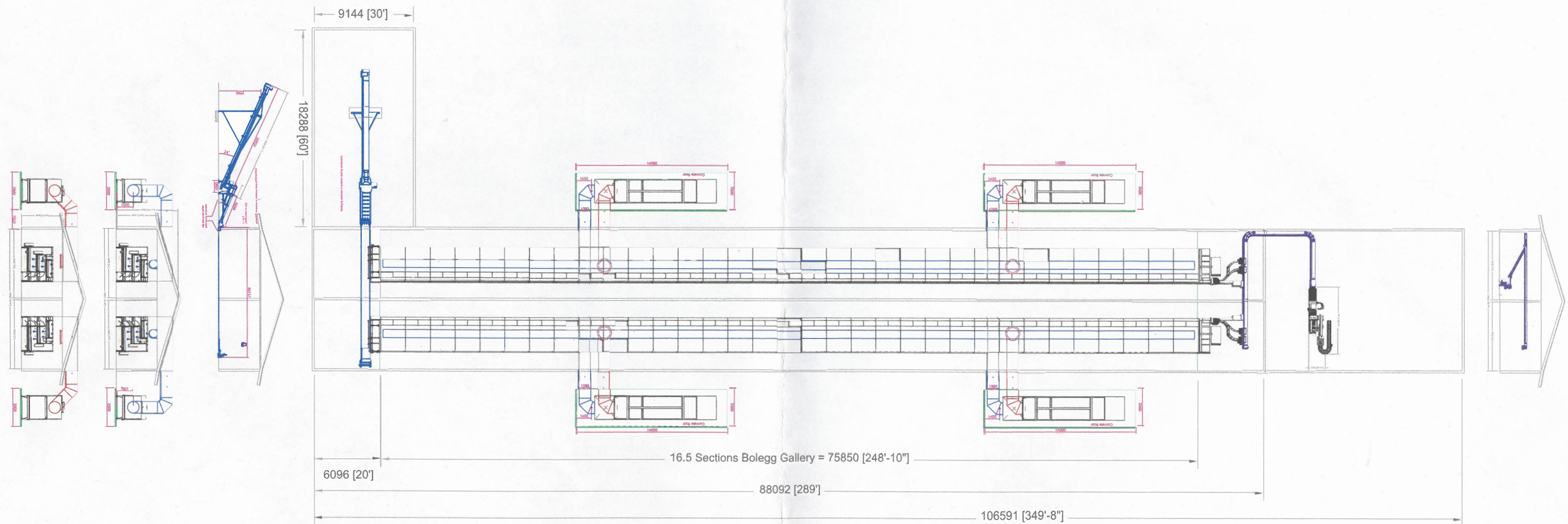
ERST completed: see ERST page for details

Surface water control systems

Requirements met: YES NO Details/comments:

Concrete liner details

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



Quote nr.: VEN2401276-1-2



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