Technical Document BA25010

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 lar	nd description
■ Approval □ Registration □ Authorization	BA25010	W1/2 28	-61-26 W4M,
Amendment			1-26 W4M
APPLICATION DISCLOSURE			
This information is collected under the authority of the Agree provisions of the Freedom of Information and Protection written request that certain sections remain private.			
Any construction prior to obtaining an NRCB permit prosecution.	t is an offence and is subject to	enforcement a	ction, including
I, the applicant, or applicant's agent, have read and under provided in this application is true to the best of my know	erstand the statements above, and viedge.	I acknowledge ti	hat the information
18/3/25			
Date of signing HR of Pibroch	Signature ELi TSC	hetter	
Corporate name (if applicable)	Print name	1001101	
GENERAL INFORMATION REQUIREMENTS			
Proposed facilities: list all proposed confined feeding	operation facilities and their dimen	sions. Indicate w	hether any of the
proposed facilities are additions to existing facilities. (at	ttach additional pages if needed)	Din	nensions (m)
Proposed facilities			width, and depth)
layer bern changed to 9°	1 m x 30 m on June 3	140 X	30
egg collectry /office		18 x	14
manure pad		18 x	19
Existing facilities: list ALL existing confined feeding of	pperation facilities and their dimens	ions	
Existing facilities	Dimension (length, width, a	s (m)	NRCB USE ONLY
See attached			
NRCB USE ONLY			
Confirmed existing CFO			



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 burns F-F	135m x 18m & 23m x 55m	
hog burns F-F hog finishing burn	125m x 40m	
hog lagour nem	90m x 100m کو' م	0
hou lagoon	35m × 44m & 30m x 65m 15 dog	
layer barn	46m x 15 m & 46m x 15m	
Pullet ber	40m x 15 m	
broiler bern	29m x 14m	
tukey/duck/goose born	29m x 38m pen and shelter	
dairy barn	50 m x 20 m & 80 m x 30	0 m
dury pers	70 m x 38 m & 74 m x 30	m
calf burn	40 m x 14 m	
		Militaria de la constante de l

Last updated: 31 Mar 2020		No. La. 2
	NRCB USE ONLY	



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

burns for pull	ets	
be rconverted to a be used for pullets	sheep barn including	filling pits.
ties	28	
, a new Part 1 application r	nust be submitted which may r	pplication. Note: i esult in a loss of
Downsitted number	Proposed increase or	Total
Permitted number	decrease in number (if applicable)	Total
Permitted number	decrease in number	Total
Permitted number	decrease in number	Total
Permitted number	decrease in number	Total
Permitted number	decrease in number	Total
Permitted number	decrease in number	Total
	be rconverted to a be used for pullets ties	be roonverted to a sheep barn including be used for pullets. ties

Last updated September 11, 2023



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

	I DO want my water licence	ce application coupled to my	AOPA permit application.
Sig	ned thisday of	, 20	/ <u></u>
			Signature of Applicant or Agent
<u>OP</u>	TION 2: Processing the A	OPA permit and Water A	ct licence separately
1.		ne CFO will need a new wate oposed in this AOPA applicat	er licence from EPA under the Water Act for the tion.
2.		CB process the AOPA applica	ation independently of EPA's processing of the
3.	() : 이 생일 시설에 하는 얼마나 가득 들어 들었다. 얼마나 되었다면 없었다면 하지만 하는 마음이다.	considered by EPA as impre	OPA application is granted by the NRCB, the oving or enhancing the CFO's eligibility for a
4.		e of a Water Act licence will	populate the CFO with livestock pursuant to ar not be relevant to EPA's consideration of
5.	I (we) acknowledge that are the <i>Water Act</i> licence application of the <i>Water Act</i> .	ny such construction or lives cation is denied or if the ope This risk includes being rec	stock populating will be at the CFO's sole risk if eration of the CFO is otherwise deemed to be in uired to depopulate the CFO and/or to cease kings" (as defined in the Water Act).
6.	and that, pursuant to the E	Bow, Oldman and South Sas	cated in the South Saskatchewan River Basin katchewan River Basin Water Allocation Order new surface water allocations.
7.	Provide: Water licence app		
Sig	ned this day of	, 20	Signature of Applicant or Agent
_			Signature of Applicant or Agent
	TION 3: Additional water		
1.		D will not need a new licence oposed in this AOPA applicat	e from EPA under the <i>Water Act</i> for the gion.
	development of decivity pro	sposed in this norn applicat	

Last updated September 11, 2023

Signed this _____ day of ______, 20_

Signature of Applicant or Agent



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

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

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

7.	Provide : Water license number(s)	or water conveya	ance agreemen	t details	_
Sigi	ned this <u>March</u> day of <u>March</u>	, 20 <u>25</u> .		Signature of Applicant or Agent	



(e.g., lake, creek, slough, seasonal)

facility to a surface water body?

What is the depth to the water

groundwater resource/aquifer you

What is the depth to the

draw water from?



100

(complete Facility de Existing	this section for the worst case of the exist escription / name (as indicated on site):	sting facility who plan)		Propose	d 1:	d for each of the pro	
Facil	ity and environmental risk		Faci	lities			NRCB USE ONLY
racii	information	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
_	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
Surface water information	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.
Surf	What is the shortest distance from the manure collection or storage facility to a surface water body?	100	300			YES NO	Dapp Creek runs through Pibroch. Hog EMS adjacent

YES with

YES with

☐ YES with

exemption

exemption YES NO

YES NO

exemption

to creek.

No water table observed

around site previously.

37.2 m ID1630086

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

>6m

table?

Groundwater information



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

for existing facilities Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015	See Decision Summary BA25010 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 Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p	for proposed facilities			
Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 I Low BA20015 New lagoon Low Low BA20015 Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	for existing facilities Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 Telated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood process.	Facility	Groundwater score	Surface water score	File number
Facility Groundwater score Surface water score File number Manure pit Low Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Facility Groundwater score Surface water score File number Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 New lagoon Low Cow BA20015 Pelated comments:	See Decision Summa	ary BA25010		
Facility Groundwater score Surface water score File number Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 New lagoon Low BA20015 Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Facility Groundwater score Surface water score File number Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 New lagoon Low Comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood process.				
Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood process.				
Facility Groundwater score Surface water score File number Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 New lagoon Companies Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Facility Groundwater score Surface water score File number Manure pit Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood process.				
Manure pit Low Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Facility Groundwater score Surface water score File number Low BA20015 Old lagoon Low Low BA20015 New lagoon Low Low BA20015 New lagoon Companies Frelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood process.				
Manure pit Low Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Manure pit Low Low BA20015 Old lagoon Low Low BA20015 New lagoon Low BA20015 Trelated comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood page of the comments of the	for <u>existing</u> facilities			
Old lagoon Low Low BA20015 New lagoon Low Low BA20015 T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	Old lagoon Low Low BA20015 New lagoon Low Low BA20015 T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p	Facility	Groundwater score	Surface water score	File number
New lagoon Low Low BA20015 T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	New lagoon Low Low BA20015 T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p	Manure pit	Low	Low	BA20015
T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plain	T related comments: Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p	Old lagoon	Low	Low	BA20015
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p	New lagoon	Low	Low	BA20015
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p				
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p				
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p				
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood phave a large berm on side next to creek.				
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood p				
Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood plai have a large berm on side next to creek.	Old swine lagoons are adjacent to Dapp Creek. They are not located in a flood phave a large berm on side next to creek.	T related comments:			
have a large berm on side next to creek.	have a large berm on side next to creek.	Old swine lago	ons are adjacent to Dapp	Creek. They are not	located in a flood plair
		have a large b	erm on side next to creek.		



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 2504	404					
Surface water re	lated concerns from di	rectly affected par	ties or refe	erral agencies:		□ yes ☑ no			
Groundwater rela	ated concerns from dir	ectly affected part	ies or refe	rral agencies:		☐ YES ☑ NO			
Water wells	₩ N/A			_					
If applicable, exe	emption for 100 m dist	ance requirements	s applied:	YES NO Condition	required:	YES NO			
If applicable, exe	emption for 30 m dista	nce requirements	applied:	YES NO Condition	required:	☐ YES ☐ NO			
Water Well Exe	emption Screening T	ool 🗹 N/A							
Wat	er Well ID	Preliminary Sci	reening	Secondary Screening		Facility			
		Score		Score					
Groundwater or surface water related comments:									

water wells





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View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. 291152

Drilling Company Well ID

	_	,						C	ate Report Received	1999/02/03
tification and l	_ocation									Measurement in Metric
ne COLONY		Address P.O. BOX	1544 WES	TLOCK	Town			Province	Country	Postal Code T0G 2L0
1/4 or LSD 16	SEC 29	<i>TWP</i> 61	RGE 26	W of MER 4	Lot	Block	Plan	Additiona	l Description	
609.60	m from So			Latitude <u>5</u> How Location	4.310431	•	•	353361	How Elevation Obtain	m
	TOURD TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	COLONY 1/4 or LSD SEC 16 29 from Boundary of 609.60 m from S	me Address COLONY P.O. BOX 1/4 or LSD SEC TWP 16 29 61	### Address COLONY P.O. BOX 1544 WES 1/4 or LSD SEC TWP RGE 16 29 61 26 from Boundary of 609.60 m from South	Address COLONY P.O. BOX 1544 WESTLOCK	Address	Address Town	Address Town	tification and Location me	Address Town Province Country

Drilling Information Type of Work Method of Drilling Rotary New Well Proposed Well Use Measurement in Metric

Formation Log		Measu	rement in Metric
Depth from Warrend Ground level (m) B	/ater earing	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 Rate45.46 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							
100.58 m	1995/10/26 1995/11/02						
Borehole							
Diameter (cm) From 0.00 0.0	(m) To (m) 0 100.58						
Steel	Weil Casing/Liner Plastic						
Size OD : 14.12 cm	Size OD : 11.43 cm						
Wall Thickness : 0.478 cm	Size OD : 11.43 cm Wall Thickness : 0.602 cm						
Bottom at : 29.26 m	Top at : 6.10 m						
Perforations	Bottom at : 97.54 m						
Diameter or							
Slot Width	Slot Length Hole or Slot						
From (m) To (m) (cm) 54.86 60.96 0.051	(cm) Interval(cm)						
67.06 73.15 0.000	7.62 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							
Туре	At (m)						
Screen Type							
Size OD : 0.00 cm							
From (m) To (i	m) Slot Size (cm)						
Attachment							
Top Fittings	Bottom Fittings						
Pack							
Type Artificial	Grain Size 10-20						
Amount 1000.00 Pounds							

Conti	actor	Ce	rtific	ation

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name RENE ARTS WATERWELL LTD. Certification No



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View in Imperial Export to Excel

291152

GIC Well ID GoA Well Tag No. **Drilling Company Well ID**

1999/02/03

GOWN ID **Date Report Received** Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code PIBROCH COLONY P.O. BOX 1544 WESTLOCK **TOG 2L0** TWP RGE Location 1/4 or LSD SEC W of MER Lot Block Plan Additional Description 16 29 61 26 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 54.310431 Longitude -113.853361 Elevation 609.60 m from South How Location Obtained How Elevation Obtained 182.88 m from East Not Obtained

		Map	
Depth from Water ground level (m) 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

Company Name RENE ARTS WATERWELL LTD. Certification No



View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

1630003

Proposed Well Use

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Well Iden	tification and L	ocation									Measurement in Metric
Owner Nat PIBROCH			Address P.O. BOX	5330		Town WES	TLOCK		Province AB	Country CA	Postal Code T7P 2P5
Location	1/4 or LSD NE	SEC 29	<i>TWP</i> 61	RGE 26	W of MER 4	Lot	Block	Plan	Additio	nal Description	
Measured	from Boundary o	of m from m from			GPS Coordin Latitude 5 How Location Not Verified	4.308600	•	es (NAD 83 tude <u>-113.</u>	· .	Elevation How Elevation Obtain Not Obtained	m ned
Drilling In Method of Rotary	formation Drilling				Type of Wor	rk				-	

Stock		
Formation Log		Measurement in Metric
Depth from Water ground level (m) 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 Rate36.37	<u>Umin</u>
Test Date Water Removal Rate (L.	/min) Static Water Level (m)
2006/10/13 54.55	
Well Completion	Measurement in Metric
Total Depth Drilled Finished Well Depth	
43.89 m	2006/10/09 2006/10/12
Borehole	
Diameter (cm) From (17.15 0.00	(m) <u>To (m)</u> D 43.89
Surface Casing (if applicable) Steel	<i>Nell Casing/Liner</i> Plastic
	Size OD : 11.43 cm
Wall Thickness : 0.478 cm	Wall Thickness : 0.546 cm
Bottom at : 28.96 m	Top at : 0.00 m
	Bottom at : 42.67 m
Perforations	
Diameter or	Slot Length Hole or Slot
From (m) To (m) (cm) 33.53 42.67 0.051	(cm) Interval(cm)
33.53 42.67 0 <u>.0</u> 51	7.62
Perforated by Machine	
Annular Seal Driven & Cuttings	
Placed from 0.00 m to	
Amount	
Other Seals	AL /\
Туре	At (m)
Screen Type	
Size OD : cm	
From (m) To (r	n) Slot Size (cm)
Attachment	
Top Fittings	Bottom Fittings
Pack	
Type Artificial	Grain Size 10/20
Amount 550.00 Pounds	

Contractor		

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name RENE ARTS WATERWELL LTD. Certification No

VC7442



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View in Imperial Export to Excel

1630003

GIC Well ID GoA Well Tag No. Drilling Company Well ID

							•					
Well Ident	ification and L	_ocation				-					Measu	ement in Met
Owner Name PIBROCH COLONY		Address P.O. BOX 5330							Province AB	Country CA	у	Postal Code T7P 2P5
Location	1/4 or LSD NE	SEC 29	<i>TWP</i> 61	RGE 26	W of MER 4	Lot		Plan		nal Description		
Measured f	rom Boundary o	of m from m from	_		GPS Coordin Latitude 5 How Location Not Verified	4.308600	•	es (NAD 83 lude <u>-113.</u> 8	, I	Elevation How Elevation O Not Obtained		
Additional	Information									 . ,,	Measur	ement in Met
	rom Top of Cas n Flow Rate		d Level		60.96 cm	ls	s Flow Cont	rol Installed Describe	d			
Recommer	nded Pump Rat				36.37 L/min	. Pump	Installed Y			Depth	m	
	nded Pump Inta		om TOC)		30.48 m		SUB @ 10		Make		H.P.	-
						•				Model (Output	Rating)	
Did you F							m	Well Disir	fected Upon	Completion		
Dia you L	Encounter Salin	e Water (>40	00 ppm Tl	DS)	Depth				opo			
	ncounter Salin I Action Taken	e Water (>40		OS) Gas						Taken		
Remedia Additiona	l Action Taken al Comments of	n Well	C	Gas		-	m Sample Co	Ged llected for i	ophysical Log	Taken ESRD		RD
Remedia Additiona	l Action Taken al Comments of	n Well	C	Gas	Depth	-	m Sample Co	Ged llected for i	Submitted to Submitted to Potability ken From G	TakenSut	bmitted to ES	
Additiona TRACE CO Yield Test Test Date	I Action Taken al Comments of DAL AT 121 FT	n Well BELOW GRO Start Time	C	SO FRAC S	Depth AND USED FO	-	M Sample Co	Ged llected for to 10 FT.	ophysical Log Submitted to Potability ken From G Depti	TakenSut	bmitted to ES	ement in Met
Additiona TRACE CO	I Action Taken al Comments of DAL AT 121 FT	n Well BELOW GRO	C	SO FRAC S	Depth	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Sut Fround Level to water level lapsed Time dinutes:Sec	bmitted to ES	
Additions TRACE CO Yield Test Test Date 2006/10/13	I Action Taken al Comments of DAL AT 121 FT	n Well BELOW GRO Start Time 12:00 AM	C	SO FRAC S	Depth AND USED FO	-	m Sample Co ROM 0 TO 1	Ged llected for to 10 FT.	ophysical Log Submitted to Potability ken From G Depti	Substitution of the second sec	Measur Recov	ement in Met
Additional TRACE CO Yield Test Test Date 2006/10/13 Method of	Action Taken al Comments of DAL AT 121 FT Water Remove Type A	n Well BELOW GRO Start Time 12:00 AM	DUND. AL	SO FRAC S	Depth AND USED FO	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Sut Fround Level to water level lapsed Time dinutes:Sec 0:00	Measur Recov	ement in Met
Additional TRACE CO Yield Test Date 2006/10/13	I Action Taken al Comments or DAL AT 121 FT Water Remove Type A emoval Rate	n Well BELOW GRO Start Time 12:00 AM al	DUND. AL:	SO FRAC S	Depth AND USED FO	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Substitution of the second sec	Measur Recov	ement in Metery (m)
Additional TRACE CO Yield Test Test Date 2006/10/13 Method of	Action Taken al Comments of DAL AT 121 FT Water Remove Type A	n Well BELOW GRO Start Time 12:00 AM al	DUND. AL:	SO FRAC S	Depth AND USED FO	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Substitution of the second sec	Measur Recov	ement in Met ery (m)
Additional TRACE CO Yield Test Test Date 2006/10/13 Method of R Depth With	I Action Taken al Comments or DAL AT 121 FT Water Remove Type A emoval Rate	n Well BELOW GRO Start Time 12:00 AM al sir 54.: 30.:	DUND. AL:	SO FRAC S Static	Depth SAND USED FO	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Substitution of the second sec	Measur Recov	ement in Met ery (m)
Additional TRACE CO Yield Test Test Date 2006/10/13 Method of R Depth With If water ren WATER LE	Water Remove Emoval Rate	start Time 12:00 AM al ir 54: 30: s < 2 hours, 6 RED TO 90%	DUND. AL:	SO FRAC S Static	Depth SAND USED FO	-	m Sample Co ROM 0 TO 1	Geolegical Grant G	ophysical Log Submitted to Potability ken From G Depti	Substitution of the second sec	Measur Recov	ement in Metrery (m)

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name

RENE ARTS WATERWELL LTD.

Certification No VC7442



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GOWN ID

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

Well Identification and L	ocation				Measurement in Metric
Owner Name PIBROCH COLONY	Address P.O. BOX 5330	Town W ES	TLOCK	Province Count AB CA	ry Postal Code T7P 2P5
Location 1/4 or LSD 11	SEC TWP RGE 28 61 26	W of MER Lot 4	Block Plan	Additional Description	
	f m from North m from East	GPS Coordinates in De Latitude 54.306790 How Location Obtained Not Verified	cimal Degrees (NAD 83, Longitude <u>-113.8</u>		m Obtained
Drilling Information Method of Drilling Rotary Proposed Well Use		Type of Work New Well			
Stock Formation Log	Mr.	easurement in Metric	Yield Test Summa	rv	Measurement in Metric
ground level (m) Bearing 1.22 2.44 7.62 39.62 44.81 45.11 45.72 48.16 49.07 51.82 54.86 56.69 57.61 64.62 67.06 69.49 70.10 73.15 73.76 81.69 82.30 85.34 88.39	Organic Matter Gravel Gray Sandy Clay Gray Stoney Clay Gray Shale Coal Sandy Shale Gray Shale Sandy Shale Green Shale Gray Shale Gray Shale Gray Shale Sandy Shale Gray Shale Sandy Shale Brown Shale Coal Brown Shale Coal Gray Shale Sandstone Sandy Shale Sandy Shale Sandy Shale		Well Completion Total Depth Drilled It 109.73 m Borehole Diameter (cm) 17.15 Surface Casing (if a Size OD: Wall Thickness: Bottom at: Perforations From (m) To (m 88.39 106.6 Perforated by M Annular Seal Placed from Amount Other Seals Typ	Prom (m) 0.00 pplicable) Well Casi Plastic 14.13 cm Si 0.478 cm Wall This 42.67 m Diameter or Slot Width Slot Leng (cm) 8 achine in & Cuttings 0.00 m to 42.67 in	To (m) 109.73 Ing/Liner IZE OD: 11.43 cm ckness: 0.602 cm Top at: 3.05 m Itom at: 106.68 m Hole or Slot Interval(cm)
89.00 106.68 109.73	Sandstone Sandy Shale & Sandstone Gray Shale		Size OD : From (m) Attachment Top Fittings Pack Type Artificial Amount 1200.	To (m)	Slot Size (cm) Fittings ze _10/20
Contractor Certification Name of Journeyman responses	nsible for drilling/construction of	well	Certificatio	n No	

RENE ARTS WATERWELL LTD.

Company Name



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1630006

GoA Weil Tag No.

GIC Well ID **Drilling Company Well ID**

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** Date Report Received Well Identification and Location Measurement in Metric Country Owner Name Postal Code Address Province Town PIBROCH COLONY P.O. BOX 5330 WESTLOCK T7P 2P5 AR CA TWP Additional Description 1/4 or LSD SEC RGE W of MER Lot Block Plan Location 26 11 28 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Longitude -113.842190 Latitude 54.306790 Elevation 762.00 m from North How Location Obtained How Elevation Obtained 30.48 m from East Not Verified Not Obtained Additional Information Measurement in Metric Distance From Top of Casing to Ground Level 60.96 cm Is Artesian Flow Is Flow Control Installed L∕min Rate Describe Recommended Pump Rate **L/min** Pump Installed Recommended Pump Intake Depth (From TOC) m Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth m Well Disinfected Upon Completion Depth Geophysical Log Taken m 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 Death to water level Test Date Start Time Static Water Level Pumping (m) Elapsed Time 2001/10/09 12:00 AM 10.88 m Recovery (m) Minutes:Sec Method of Water Removal Type Air 11.37 L/min Removal Rate Depth Withdrawn From 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

Company Name

RENE ARTS WATERWELL LTD.

Certification No VC7442



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GOWN ID

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

Well Identificat	on and Lo	ocation		-							Measurement in Metric
Owner Name HUTTERIAN BR COLONY	ETHREN		Address PIBROCH			Town			Province	Country	Postal Code
Location 1/4	or LSD	SEC 28	<i>TWP</i> 61	RGE 26	W of MER 4	Lot	Block	Plan	Addition	nal Description	
Measured from E	Boundary of	f			GPS Coordin		-		1025	Elevation	624.84 m
	-	m from			Latitude <u>5</u> How Location	4.306755 Obtained	_ Longii	tude <u>-113.84</u>	1025	How Elevation Obta	
		m from			Мар					Estimated	
Drilling Informa	ition										
Method of Drillia Rotary	ng				Type of Wor New Well	k					
Proposed Well (Stock	Use										
Formation Log				Me	asurement in I	Metric	Yield Te	st Summary	,		Measurement in Metric
Depth from ground level (m)	Water Bearing	Litholog	y Description				Recomme Test D	ended Pump ate Wat	Rate er Removal	13.64 L/min Rate (L/min) S	tatic Water Level (m)
6.10		Yellow	Clay			l L	1981/0	5/09	18.1	8	30.48
12.19		Blue C	ay				Well Cor	•			Measurement in Metric
15.24		Sand					Total Dep 100.58 m		nished Well	Depth Start Date 1981/06/04	End Date 1981/06/09
21.34		Blue C	ay				Borehole			1951/00/04	1501/00/05
24.38		Sand						neter (cm)		From (m)	To (m)
25.91		Blue C					. 2141	0.00		0.00	100.58
28.96	<u>:</u>		andstone			41	Surface (Galvanize	Casing (if ap	piicabie)	Well Casing/L	iner
42.67 43.28		Gray S Coal	naie	-		11		ize OD :	11.58 cm	n Size C	D: 0.00 cm
45.11		Brown	Shale			- 1	Wall Thi	ckness :	0.358 cm	Mall Thicknes	ss: 0.000 cm
50.29		Green					Во	ttom at :	76.81 m	Тор	at : 0.00 m
51.82			andstone			-11	Perforation			Bottom	at : 0.00 m
54.86		Gray S				* 1	renorau	ons	Diamete	er or	
57.91		Gray S	andstone	-		11	E () To ()	Slot Wi	dth Slot Length	Hole or Slot
70.10		Gray S	hale				From (m	i) To (m)	(cm) (cm)	Interval(cm)
70.71		Coal					Perforate	d bv			
76.20		Brown	Shale					s <i>eai</i> Driven			
80.77		Gray S	hale				Placed		0.00 m t	o <u>76.81 m</u>	
83.82			andstone			- 11	An	nount			
94.49		Gray S				11	Other Sea				
97.54			andstone			11		Туре			At (m)
100.58		Gray S	nale			- 11	Screen T				
								ур в ize OD :	0.00 cn	n	
								rom (m)	0.00	To (m)	Slot Size (cm)
								chment		5.4	
								Fittings		Bottom Fittin	gs
							Pack			Crain Sina	
							Type _ Amoun			Grain Size	
						-	rouir			·	
Contractor Cer	tification										

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MEASURES, CLARK DRILLING Certification No



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GIC Well ID 250394 GoA Well Tag No.

Drilling Company Well (D Date Report Received 1981/09/21

GOWN ID	maion on this report will be retained	u iii a pubiic dalabase.	Date Report Rec	
Well Identification and Location	-			Measurement in Metric
Owner Name Address HUTTERIAN BRETHREN PIBROCH COLONY		Town	Province Count	ry Postal Code
Location 1/4 or LSD SEC TWP 11 28 61	26 4	t Block Plan	Additional Description	
Measured from Boundary of m from m from		in Decimal Degrees (NAD 8: 6755 Longitude <u>-113.</u> ained	•	
Additional Information				Measurement in Metri
Distance From Top of Casing to Ground Level Is Artesian Flow RateUmin		ls Flow Control Installe Describ	d	
Recommended Pump Rate	13.64 L/min	Pump Installed	Death	m
Recommended Pump Intake Depth (From TOC)	74.68 m	Type		н.р
· · · · · · · · · · · · · · · ·			Model (Output	Rating)
Did you Encounter Saline Water (>4000 ррт TDS Ga Remedial Action Taken	s Depth		niected Upon Completion ophysical Log Taken Submitted to ESRD	
Additional Comments on Well DRILLER REPORTS WATER IS SOFT		Sample Collected for	Potability Su	Ibmitted to ESRD
Yield Test		Та	ken From Ground Level Depth to water level	Measurement in Metric
Test Date Start Time 1981/06/09 12:00 AM	Static Water Level 30.48 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (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 L		Diversion Date & Time	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MEASURES, CLARK DRILLING Certification No



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GIC Well ID GoA Well Tag No.

291151

GOWN ID

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Drilling Company Well ID Date Report Received 1999/02/03

Well Identification and L	ocation			Measurement in Metric
Owner Name PIBROCH COLONY	Address P.O. BOX 1544 WES	Town	Province	Country Postal Code T0G 2L0
Location 1/4 or LSD 11	SEC TWP RGE 28 61 26	W of MER Lot 4	Block Plan Addition	onal Description
	m from Scuth m from East	GPS Coordinates in Dec Latitude 54.307687 How Location Obtained	imal Degrees (NAD 83) Longitude113.839807	Elevation m How Elevation Obtained Not Obtained
304.80	m from South m from East	Latitude <u>54.307687</u>	Yield Test Summary Recommended Pump Rate Test Date Water Remova 1995/10/26 18. Well Completion Total Depth Drilled Finished We 99.06 m Borehole Diameter (cm) 0.00 Surface Casing (if applicable) Steel Size OD: 14.12 c Wall Thickness: 0.478 c Bottom at: 25.30 n Perforations Perforations Diameter Stot V From (m) To (m) (cr 73.15 79.25 0.0 85.34 97.54 0.0 Perforated by Machine Annular Seal Placed from 22.86 m Amount Other Seals Type	Measurement in Metric 18.18 L/min Static Water Level (m) 18 22.43 Measurement in Metric 18 22.43 Measurement in Metric 1995/10/23 1995/10/26 From (m)
79.55 82.30 91.44 94.49	Greenish Gray Shale Fine Grained Shale Gray Sand & Sandstone Gray Shale		Size OD : 0.00 c From (m) Attachment	To (m) Slot Size (cm)
97.54 99.06	Gray Sandy Sand & Shale Greenish Gray Shale		Pack Type Artificial Amount 1000.00 Pounds	Bottom Fittings Grain Size 10-20

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name

RENE ARTS WATERWELL LTD.

Certification No



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GIC Well ID GoA Well Tag No.

1999/02/03

GOWN ID

Drilling Company Well ID
Date Report Received Well Identification and Location Measurement in Metric Address P.O. BOX 1544 WESTLOCK Owner Name Province Country Postal Code Town PIBROCH COLONY T0G 2L0

Location	1/4 or LSD St	<i>EC TWP</i> 3 61	RGE 26	W of MER 4	Lot Block	Plan	Additional Description	
Measured fi	304.80 m from 121.92 m from 12			GPS Coordinate Latitude 54.: How Location C Map		rees (NAD 83) agitude113.83		n Obtained
Additional	Information							Measurement in Metri
	rom Top of Casing to			cm	la Elavi Ci			
is Anesiai	n Flow	l /min			IS Flow Co	Describe.		
Passer	nded Pump Rate	<u> </u>		49 49 1/	Duma Installa		Depth	
	nded Pump Intake D	enth (Emm TOC)		18.18 L/min 82.30 m	Pump Installed Type SUB	108	Make	m H.P. <u>.75</u>
110001111101	nada r amp mano b	_		02.00 111	,,po <u>coo</u>		Model (Outr	out Rating)
Did you f	Encounter Saline Wa	ster (>4000 nom TD	S)	Death		Wall Disinf	ected Upon Completion	
Dio you L	Lincoamer Samme VV		as				physical Log Taken	
Remedia	l Action Taken	•				-	Submitted to ESRD	
					Sample	Collected for Po	otability	Submitted to ESRD
	al Comments on We		34 GING T		EL . 61			
DRILLER	REPORTS DISTANC	E FROM TOP OF C	SASING I	O GROUND LEVE	EL: Z.			
Yield Test						Tak	en From Ground Level	Measurement in Metri
Test Date	Sta	rt Time	Static	Water Level	_		Depth to water level	
1995/10/26	3 12:0	00 AM		22.43 m	PL	ımping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of	Water Removal					22.43	0:00	
modiod or	Type Pump					24.36 26.24	1:00 2:00	71.32
R	Removal Rate				-	28.25	3:00	69.59
	hdrawn From					30.02	4:00	68.07
- Dopin vini		00.02 111				31.72 33.73	5:00 6:00	66.65 65.18
if water ren	noval period was < 2	? hours, explain why				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 50.01	14:00 16:00	56.31 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 72.62	75:00 90:00	37.90 36.83
						72.62 72.62	105:00	35.97
							120:00	35.38
Mater Dive	adad for Delline							

Water Diverted for Drilling		
Water Source Amo	unt Taken L	Diversion Date & Time

1

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER Company Name

RENE ARTS WATERWELL LTD.

Certification No



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GIC Well ID 1630088 GoA Well Tag No.
Drilling Company Well ID

GOWN ID										Date Report Receive	ed 2007/09/19
Well Ide	ntification and I	ocation									Measurement in Metric
Owner Na PIBROCH	ime I HUTTERITE CO	DLONY	Address P.O. BOX	5330		Town WES	LOCK		Province ALBERTA	Country CA	Postal Code T7P 2P5
Location	1/4 or LSD 14	SEC 28	<i>TWP</i> 61	RGE 26	W of MER 4	Lot	Block	Plan	Addition	al Description	
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 -113.8 How Location Obtained Not Verified				'	Elevation How Elevation Obtained	m_ ained

Drilling Information Type of Work New Weil Method of Drilling Rotary Proposed Well Use Yield Test Summary Measurement in Metric

Formation Log	Measurement in Metric
Depth from Water ground level (m) 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 Rate81.8	
Test Date Water Removal Rate (L/min) Static Water Level (m)
1999/05/20 81.83	35.54
Weil 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 17.15 0.0	n (m) <u>To (m)</u> 00 36.58
	Plastic
Size OD : 14.12 cm	Size OD : 11.43 cm
Wall Thickness : 0.478 cm	Size OD: 11.43 cm Wall Thickness: 0.602 cm
Bottom at : 36.58 m	Top at : 0.00 m
1	Bottom at : 103.63 m
Perforations	
Diameter or Slot Width	Slot Length Hole or Slot
From (m) To (m) (cm)	Slot Length Hole or Slot (cm) Interval(cm)
95.10 101.19 0.051	7.62
Perforated by Machine	
Annular Seal	
Placed fromto	m
Amount	_
Other Seals	
Туре	At (m)
Driven Driven	33.53 36.58
Driven	20.30
Screen Type	
Size OD :cm	
From (m) To	(m) Slot Size (cm)
Attachment	
Top Fittings	Bottom Fittings
Pack	
Type Artificial	Grain Size <u>10/20</u>
Amount 900.00 Pounds	•

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name RENE ARTS WATERWELL LTD. Certification No

VC7442

Copy of Well report provided to owner

Date approval holder signed 1999/02/08



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GIC Well ID GoA Well Tag No. 1630088 **Drilling Company Well ID**

GOWN ID										Date Re	port Receive	d 2007/	09/19
Well Identifi	cation and L	ocation										Measure	ment in Metric
Owner Name	1		Address			Town			Province		Country		Postal Code
PIBROCH HI	JTTERITE CO	LONY	P.O. BOX	5330		WESTL	OCK		ALBERT	Ά	CA		T7P 2P5
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additio	nal Desc	ription		
	14	28	61	26	4						•		
Measured fro	m Boundary o	f			GPS Coordinate	es in Decim	al Degree	es (NAD 83)				
	•	m from N	lorth	1	Latitude 54.	310410	Longit	tude <u>-113.</u>	342190	Elevat	іоп	m	 ,
		m from E			How Location C	Obtained				How E	levation Obta	ined	
					Not Verified					Not Ot	tained		
				·					<u> </u>				
Additional I	nformation											Measurer	ment in Metric
Distance Em	om Top of Casi	ina to Ga	ound Level		60.96 cm								
ls Artesian	Flow	ing to ort	-		00.00 0111	le l	Flow Cont	mi installe	1				
			I /min			75 7	1011 00111						
	Rate		L/min					Describe	·				
Recommend	led Pump Rate	9			81.83 L/min	Pump II	nstalled 🗎	/es		Depth	85.3	34_m	
Recommend	ied Pump Intal	ke Depth	(From TOC)		85.34 m	Type \$	Submersil	ole	Make			H.P.	
										Mode	el (Output Ra	tina)	
Did you Er	ncounter Saline	e Water (tion	_	
				Gas	Depth _		m	Ge	ophysical Lo	g Taken _			
Remedial .	Action Taken								Submitted t	o ESRD			
						s	ample Co	llected for	Potability		Submi	tted to ESRL)
Additional	Comments on	Well					•		´-				
	LSO = FEEDI												
Yield Test								Ta	ken From (Ground I	_evel	Measurer	nent in Metric
T4 D-4-		04 Ti		G4-4	t- 144-4 1 1				Dep	th to wate	r level		
Test Date 1999/05/20		Start Tin 8:00 AM		Stat	ic Water Level 35.54 m		Pum	ping (m)		Elapsed T	lme	Recover	rv (m)
1599103120		0.00 AIV			30.34 111					Minutes:	Sec		7 ()
40-4b461	Matas Bassass	.,						15.54		0:00		65.7	
Method of V	Vater Remova							5.72		1:00		59.7	
	Туре <u>Р</u>					-		1.21		2:00 3:00		<u>54.0</u>	
Re	moval Rate		81.83 L/min	I				6.39		4:00		50.1 47.3	
Depth Witho	drawn From		85.34 m					7.58		5:00		45.	
						_		8.46		6:00		44.:	
If water remo	oval period was	s < 2 hou	rs, explain w	hy				9.13		7:00		43.4	43
								9.65		8:00		42.7	
								0.08		9:00		42.2	
								0.41 0.99		10:00 12:00		41.8 41.2	
								i1.42		14:00		40.7	
								1.75		16:00		40.3	
							E	2.24		20:00		39.8	31
								2.73		25:00		39.3	
								3.12		30:00		38.9	
								i3.40 i3.73		35:00 40:00		38.6 38.4	
								i4.43		50:00		38.0)4
								4.50		60:00		37.7	
							6	4.89		75:00		37.4	16
								5.26		90:00		37.2	
								5.53		105:00		36.9	
						_		5.78		120:00)	36.7	/3
Water Disease	ted for Drillin	0		_									
		9											
Water Source	•			Am	ount Taken				Diversio	on Date &	Time		
					L								
Contractor													

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

Company Name

RENE ARTS WATERWELL LTD.

Certification No VC7442

Copy of Well report provided to owner

Date approval holder signed 1999/02/08



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GIC Well ID GoA Well Tag No. Drilling Company Well ID

WN ID	additady. The information of	Talle Topolt will be totalice in a	pablic database.	1	Date Report Received	1983/06/27
Well Identification and L	ocation				N	deasurement in Met
Owner Name PIBROCH COLONY	Address P.O. BOX 1544 WES	Tow. TLOCK	n	Province	Country	Postal Code T0G 2L0
Location 1/4 or LSD NW	SEC TWP RGE 28 61 26	W of MER Lot 4	Block Plan	Addition	al Description	
feasured from Boundary o			ocimal Degrees (NAD 83		Elevation	
	m from	Latitude 54.308563 How Location Obtained		044117	Elevation How Elevation Obtains	<u>m</u>
	m from	Map	,		Not Obtained	
rilling Information						
fethod of Drilling Inknown	1	Type of Work New Well				
Proposed Well Use Nock					<u> </u>	
ormation Log	Me	asurement in Metric	Yield Test Summa	•		leasurement in Met
Depth from Water round level (m) Bearing	Lithology Description		Recommended Pum Test Date W	p Rate ater Removal I	0.00 L/min Rate (L/min) Sta	tic Water Level (m)
14.33	Clay	. , , , , , , ,	1983/04/11	68.19	<u> </u>	7.01
14.63	Boulders		Well Completion		V	deasurement in Met
17.68	Sand		Total Depth Drilled	Finished Well	•	End Date
18.29	Boulders		91.44 m		1983/04/06	1983/04/11
26.21	Soft Clay		Borehole			
36.58	Gray Shale		Diameter (cm) 0.00		From (m) 0.00	To (m) 91.44
41.15	Sandy Shale		Surface Casing (if a	applicable)	Well Casing/Lin	-
42.67	Gray Shale		Steel		Steel	
43.89	Green Shale		Size OD : _	14.12 cm		
46.63	Gray Shale & Coal		Wall Thickness :	0.396 cm 45.72 m	_	
67.06	Gray Shale		Bottom at :	45.72 111	Top at Bottom at	
68.28	Coal		Perforations		Dollom at	
78.64	Gray Shale			Diameter		
82.30 Yes	Water Bearing Sandstone		From (m) To (n	Slot Wid n) (cm)	-	Hole or Slot Interval(cm)
86.56	Gray Shale		79.25 91.4			30.48
88.09 Yes	Water Bearing Sandstone		Perforated by T	orch		
89.61	Gray Shale		Annular Seal Drive			
91.44	Brown Shale & Coal	j	Placed from	0.00 m to	o 45.72 m	
			Amount			
			Other Seals			
			Туг	pe		At (m)
			Screen Type			
		ì	Size OD :	0.00 cm	<u>_</u>	
			From (m)		To (m)	Slot Size (cm)
		ł	Attachment			
		ļ	Top Fittings		Bottom Fittings	
		j	Pack			
			Туре		Grain Size	
			Amount			
			···-			
ntractor Certification	onsible for drilling/construction of	well	Certification	on No		
no or gourneyman respu	missione for arming/construction of	TT	Commicant	J., 140		

UNKNOWN NA DRILLER Company Name

BIG IRON DRILLING LTD.



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GIC Well ID

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GoA Well Tag No. **Drilling Company Well ID**

1983/06/27

GOWN ID Date Report Received Well Identification and Location Measurement in Metric Owner Name Province Postal Code Address Town Country P.O. BOX 1544 WESTLOCK PIBROCH COLONY T0G 2L0 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan Additional Description Location NW 28 26 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude <u>54.308563</u> Longitude -113.844117 Elevation m from How Location Obtained How Elevation Obtained m from Not Obtained Additional Information Measurement in Metric Distance From Top of Casing to Ground Level Is Artesian Flow Is Flow Control Installed L/min Rate Describe Recommended Pump Rate 0.00 L/min Pump Installed Yes Recommended Pump Intake Depth (From TOC) 79.25 m Type SUB H.P. 1 Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth m Well Disinfected Upon Completion Depth 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 Depth to water level Test Date Start Time Static Water Level Elapsed Time Pumping (m) Recovery (m) 1983/04/11 12:00 AM 7.01 m Minutes:Sec Method of Water Removal Type Pump 68.19 L/min Removal Rate 91.44 m Depth Withdrawn From If water removal period was < 2 hours, explain why Water Diverted for Drilling Water Source Amount Taken Diversion Date & Time

Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name BIG IRON DRILLING LTD. Certification No



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GIC Well ID GoA Well Tag No.

250404

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Drilling Company Well ID

OWN ID	•						Date Report Received	1988/08/15
Well Identification and L	ocation							Measurement in Metric
Owner Name HUTTERIAN BRETHREN#	Address WELL 2 P.O. BO	; X 1544 WES1	rlock	Town		Province	Country	Postal Code T0G 2L0
Location 1/4 or LSD NW	SEC TWP 28 61	RGE 26	W of MER	Lot	Block Plan	Additio	nal Description	
	m from			54.308563	mel Degrees (NAD Longitude11		Elevation How Elevation Obtain Not Obtained	m_ed
Drilling Information								
Method of Drilling Rotary Proposed Well Use			Type of Wo New Well	ork				
Stock Formation Log		Me	asurement in	Metric	Yield Test Sum	mary		Measurement in Metric
Depth from Water ground level (m) Bearing	Lithology Descrip				Recommended Po	ump Rate Water Removal	68.19 L/min Sta	atic Water Level (m)
19.81	Soft Clay			 	1988/06/22	27.2		3.66
63.40	Clay				Well Completion Total Depth Drilled		-	Measurement in Metric End Date
74.68	Sandstone				103.63 m	u riiisiiau vvai	1988/06/22	1988/06/22
80.16	Shale	B-11			Borehoie			
91.44 94.49	Sandstone Fractured Shale	-		-	Diameter (c	m)	From (m)	To (m)
99.97	Sandstone				0.00		0.00	103.63
103.63	Shale				73.15 10 Perforated by Annular Seal Di Placed from Amount Other Seals Screen Type Size OD : From (m)	14.12 cr 0.478 cr 24.38 m Diametr Slot W (m) (cm 3.63 0.31 Machine riven & Welded 0.00 m	m Wall Thickness Top al Bottom al er or fldth Slot Length (cm) 8 Ring to 24.38 m	11.58 cm 0.635 cm 21.34 m 103.63 m Hole or Slot Interval(cm) 7.62 At (m)

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No



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GIC Well ID GoA Well Tag No. **Drilling Company Well ID**

250404

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GOWN ID				Date Report Received	1988/08/15
Well Identification and Location					Measurement in Metric
Owner Name Address HUTTERIAN BRETHREN#WELL 2 P.O. BOX 1544	WESTLOCK	Town	Province	Country	Postal Code T0G 2L0
Location 1/4 or LSD SEC TWP RG NW 28 61 26	4			al Description	
Measured from Boundary of m from m from	GPS Coordinates Latitude 54.30 How Location Ob Map		IAD 83) -113.844117	Elevation How Elevation Obtain Not Obtained	
Additional Information					Measurement in Metric
Distance From Top of Casing to Ground Level Is Artesian Flow	cm	Is Flow Control Ir	nstalled		
Rate L/min		D	escribe		
Recommended Pump Rate	68.19 L/min	Pump Installed		Depth	m
Recommended Pump Intake Depth (From TOC)	91,44 m	Туре	Make	Н.	P
		<u> </u>		Model (Output Ratin	g)
Did you Encounter Saline Water (>4000 ppm TDS)	Depth	m We	all Disinfected Upon	Completion	
	Depth	m			
Remedial Action Taken			Submitted to	ESRD	
		Sample Collect	ed for Potability	Submitte	ed to ESRD
Additional Comments on Well		Sample Collecti	ed for Foldomity		
WATER AT 300-328'					
VI11 74			T-1 F 0		
Yield Test Test Date Start Time	Static Water Level		Taken From G Depth	round Level to water level	Measurement in Metric
1988/06/22 12:00 AM	3.66 m	Pumping 		apsed Time finutes: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	n Date & Time	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No

Copy of Well report provided to owner Date approval holder signed

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GIC Well ID GoA Well Tag No. **Drilling Company Well ID**

30WN ID			Date Report Received 1988/08/15
Well Identification and Location			Measurement in Metric
Owner Name Address HUTTERIAN BRETHREN#WELL 1 P.O. BOX 1544 WE	Town	Provinc	e Country Postal Code T0G 2L0
Location 1/4 or LSD SEC TWP RGE NW 28 61 26	W of MER Lot 4	Block Plan Addit	ional Description
Measured from Boundary of m from m from	GPS Coordinates in De- Latitude <u>54.308563</u> How Location Obtained Map	cimal Degrees (NAD 83) Longitude113.844117	Elevation m How Elevation Obtained Not Obtained
Drilling Information			
Drilling Information Method of Drilling Rotary	Type of Work New Well		
Proposed Well Use Stock		_	
Formation Log N	leasurement in Metric	Yield Test Summary	Measurement in Metric
Depth from Ground level (m) Water Lithology Description Bearing		Recommended Pump Rate Test Date Water Remov	0.00 L/min al Rate (L/min) Static Water Level (m)
19.81 Soft Clay & Sand		1988/06/21 13	3.64 0.00
52.43 Hard Clay	i l	Well Completion	Measurement in Metric
53.64 Yes Water Bearing Coal	· · · · · · · · · · · · · · · · · · ·	Total Depth Drilled Finished W	ell Depth Start Date End Date
64.01 Hard Clay	· · · · 1 	97.54 m	1988/06/21 1988/06/21
97.54 Shale & Sandstone	11	Borehole	
		Diameter (cm) 0.00	From (m) To (m) 0.00 97.54
		Surface Casing (if applicable)	Well Casing/Liner
		Steel Size CO	Siza 00 / 0.00 am
		Size OD : 14.12 Wall Thickness : 0.478	
		Bottom at : 24.38	
		Bollom 81	Bottom at : 0.00 m
		Perforations	201077 41 2
			eter or
			Width Slot Length Hole or Slot m) (cm) Interval(cm)
		Perforated by	·
		Annular Seal Driven & Welder	•
		Placed from 0.00 m	to24.38 m
		Amount	
		Other Seals	Ab ()
		Туре	At (m)
	[]	Carnon Tuno	
	[]	Screen Type	om.
		Size OD : 0.00 From (m)	
		rivin (III)	To (m) Slot Size (cm)
		Attachment	
		Top Fittings	Bottom Fittings
		Pack	
		Туре	Grain Size
	[Amount	
Contractor Certification			

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name

MAHAR, VERN DRILLING SERVICES

Certification No



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250401

GIC Well ID GoA Well Tag No. **Drilling Company Well ID**

GOWN ID Date Report Received 1988/08/15 Well Identification and Location Measurement in Metric Postal Code Owner Name Address Province Country Town **HUTTERIAN BRETHREN#WELL 1** P.O. BOX 1544 WESTLOCK T0G 2L0 Additional Description 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan Location NW GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude <u>54.308563</u> Longitude -113.844117 Elevation m from How Location Obtained How Elevation Obtained m from Not Obtained Additional Information Measurement in Metric Distance From Top of Casing to Ground Level Is Artesian Flow is Flow Control Installed I /min Rate Describe Recommended Pump Rate 0.00 L/min Pump Installed Recommended Pump Intake Depth (From TOC) 0.00 m Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth m Well Disinfected Upon Completion Depth_ m 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 Depth to water level Test Date Start Time Static Water Level Flansed Time Pumping (m) 1988/06/21 12:00 AM 0.00 m Recovery (m) Minutes:Sec Method of Water Removal Type Air 13.64 L/min Removal Rate 12<u>.19</u> m Depth Withdrawn From If water removal period was < 2 hours, explain why Water Diverted for Drilling Water Source Amount Taken Diversion Date & Time

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name MAHAR, VERN DRILLING SERVICES Certification No



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GIC Weil ID GoA Weil Tag No.

1630086

GOWN ID	on this report will be retained in a	ı public database.		Date Report Received	2007/09/19
Well Identification and Location	· ·				asurement in Imperial
Owner Name Address PIBROCH HUTTERITE COLONY P.O. BOX 5330	Tow WES	n STLOCK	Province ALBERTA	Country CA	Postal Code T7P 2P5
Location 1/4 or LSD SEC TWP RGE NW 28 61 26	W of MER Lot 4	Block Plan	Additiona	al Description	
Measured from Boundary of		ecimal Degrees (NAD 8			·
ft from	Latitude <u>54.308600</u>			Elevation	ft
ft from	How Location Obtained	1	i	How Elevation Obtaine	od .
	Not Verified		<u> </u>	Not Obtained	
Drilling Information		· · · · · · · · · · · · · · · · · · ·			
Method of Drilling	Type of Work				
Rotary	New Well				
Proposed Well Use Co-ops (Colonies)					
Formation Log Me	easurement in Imperial	Yield Test Summa	агу	Me	asurement in Imperial
Depth from Water Lithology Description		Recommended Purr			
ground level (ft) Bearing			Vater Removal R	Rate (igpm) Stal	tic Water Level (ft)
30.00 Brown Clay		1999/06/27		· · · · · · · · · · · · · · · · · · ·	0.00
80.00 Gray Clay & Rocks		Well Completion			asurement in Imperial
98.00 Sandy Clay		Total Depth Drilled 140.00 ft	Finished Well E	Depth Start Date 1999/06/24	End Date 1999/06/27
110.00 Gray Clay		Borehole	140.00 10	1555100124	1999/00/21
120.00 Sandy Clay		Diameter (in)		From (ft)	To (ft)
122.00 Gray Clay	·	6.25		0.00	121.00
140.00 Coarse Grained Sand & Gra	vel	5.13		121.00	140.00
	1	Surface Casing (if a	applicable)	Well Casing/Line Plastic	er e
	ľ	Size OD :	5.56 in		: 4.50 in
	1	Wall Thickness :		- Wall Thickness	————
		Bottom at :	121.00 ft	Top at	: 0.00 ft
		_		Bottom at	: 121.00 ft
		Perforations			
		From (ft) To (f	Diameter ft) Slot Width		Hole or Slot Interval(in)
	1	Perforated by	Jnknown		
		Annular Seal			
	Ì	Placed from	ft_to	<u>ft</u>	
		Amount			
		Other Seals			
		Tyj Driv			At (ft) 80.00
		Driv			21.00
		Screen Type			
		Size OD :	in	_	
		From (ft)		To (ft)	Slot Size (in)
		Attachment			
		_		Bottom Fittings	
		Pack			
		Type Unknown	14-1	Grain Size	
		Amount	Unknown		
Contractor Certification					
Name of Journeyman responsible for drilling/construction of RENE ARTS	of well	Certification VC7442	on No		

RENE ARTS WATERWELL LTD.

Company Name

Date approval holder signed 1999/06/27

Copy of Well report provided to owner Yes



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GIC Well ID GoA Well Tag No.

1630086

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GOWNID				Date	в кероп кесеічеа	2007/09/19
Well Identification and Loc	ation			-	Me	asurement in Imperial
Owner Name	Address		own	Province	Country	Postal Code
PIBROCH HUTTERITE COLO			VESTLOCK	ALBERTA	CA	T7P 2P5
	SEC TWP RGE 28 61 26	4	Block Plan		escription	
	from	GPS Coordinates in Latitude 54.3086 How Location Obtain		13.844000 Ele	evation w Elevation Obtaine	
	idii	Not Verified			t Obtained	
A deltale and the forms of the		·				
Additional Information					Ме	asurement in Imperial
Distance From Top of Casing	to Ground Level	30.00 in	la Flanc Cantan I mat	- U d		
Is Artesian Flow Yes	2.00 igpm		is Flow Control Insti	alled		
	2.00 lgpm			cribe		
Recommended Pump Rate			Pump Installed			<u>ft</u>
Recommended Pump Intake	Depth (From TOC)	<u> </u>	Туре	Make		
					lodel (Output Rating	<u>"</u>
Did you Encounter Saline V	Vater (>4000 ppm TDS)		ft Well L			
Remedial Action Taken	Gas	Depth	ft	Geophysical Log Tak		
1 10 110 110 110 110 110 110 110 110 11				Submitted to ESF	RD	
			Sample Collected	for Potability	Submitte	to ESRD
Additional Comments on V	Vell		,		_	
LOCATION NOT PROVIDED	BY DRILLER. LEGAL ASS	GNED BY GIC DEC. 200	8 AS PER OTHER WE	LLS IN SAME AREA.		
Yield Test				Taken From Group	ad Lovel Mo	asurement in Imperial
	= 0.				vater level	asurement in impenar
	tart Time Sta 2:00 AM	tic Water Level 0.00 ft	Pumping (ft		ed Time es:Sec	Recovery (ft)
Method of Water Removal						
Type Unk	nown					
Removal Rate	igpm					
Depth Withdrawn From	ft					
If water removal period was <	2 hours, explain why					
Water Diverted for Drilling						
Water Source	A	nount Taken		Diversion Da	te & Time	
	~1	ig		Divoloidii Da		j

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name RENE ARTS WATERWELL LTD.

Certification No VC7442

Copy of Well report provided to owner

Date approval holder signed 1999/06/27



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

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

						NRCB USE ONL	Υ.	
	Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
(1)	Cory Hamilton	NE 28 61 264		Ag	Cat 1	865 m	N/A	Yes
0	Tymkow	NW 34 61 26 64		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)

				NRCB US	SE ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
	Sec attached.				
			Total	>2880 ac prov	ided

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

Additional information (attach any additional information as required)

^{**} 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





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 [lno				
DATES OF APPROV	AL OFFICER SITE V	ISITS					
March 12	, 2025						
	E WITH MUNICIPAL		ID REFERR	AL A	AGEN	CIES	
Date deeming letters sen	t: April 1,	2025			-		
	Westlock Coun				_		
✓ letter sent	response received	✓ writter	/email		verbal		no comments received
Alberta Health Services	s: n/a						
☐ letter sent	☐ response received	☐ writter	/email		verbal		no comments received
Alberta Environment a	nd Parks:						
✓ letter sent	response received	☐ writter	ı/email		verbal		no comments received
Alberta Transportation	:						
letter sent	response received	✓ writter	ı/email		verbal		no comments received
Alberta Regulatory Ser	vices: V/A						
☐ letter sent	response received	☐ writter	ı/email		verbal		no comments received
Pembina F	River Natural Gas Co	-Op Ltd.				□ N/A	
	✓ response received	V .urittor	·/amail				no comments received
₽ letter sent	response received	writter	леттан		verbai		no comments received
Other:						□ N/A	
☐ letter sent	response received	☐ writter	ı/email		verbal		no comments received

spreading lands





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):
Requirements (m): Category 1: 638 m Category 2: 851 m Category 3: 1064 m Category 4: 1702 m
Technology factor:
Expansion factor:
MDS related concerns from directly affected parties or referral agencies:
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: XYES \(\square{1}\) NO
Land spreading agreements required:
Manure management plan: ☐ YES ☑ NO If yes, plan is attached: ☐
PLANS
Submitted and attached construction plans: YES \(\square\) NO
Submitted aerial photos: YES NO
Submitted photos:
GRANDFATHERING
Already completed: ☐ YES ☑ NO ☐ N/A
If already completed, see
See Appendix C, Decision Summary BA25010



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

cility description / name		1 100 h	17
	e (as indicated on site plan)	1. Layer Dar	
		2. Manure pa	O .
nure storage capacity			
Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
140	30	0	
18	10	0	
		TOTAL CAPACITY	Adequate capacity
All			
All	o neaby 1		
int	ntegrity of the liner will be main	Tunoff.	
int		Tunoff.	
ner protection escribe how the physical in	ntegrity of the liner will be mair	Tunoff.	
ner protection escribe how the physical in	ntegrity of the liner will be mair	ntained	

Concrete liner details



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 thickness	Method of sulphate protection:					
('/	TC					
	150					
Concrete strength	Concrete reinforcement size and spacing					
2						
25 MPA	18" 0/C					
Concrete requirements can be found in Technical Guideline A 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	Requirements met: Condition required: Report attached: YES NO NO NO NO NO NO NO NO NO NO					
Additional information (attach as required)						
NRCB USE ONLY						
Nine month manure storage volume requirements met $f M$	YES YES With STMS NO					
Depth to water table: >6 m	Requirements met: YZ YES 🗆 NO					
Ponth to Unperment groundwater recourses 37.2 m	Requirements met: YES 🗆 NO					
Depth to Uppermost groundwater resource: 37.2 m	Requirements met: MYES NO					
ERST completed: See ERST page for details						
ERST completed: LM see ERST page for details						
Surface water control systems						
Requirements met: YES \(\subseteq NO \) Details/comments:						
Applicant to provide docu	mentation confirming concrete information.					
Concrete liner details						
Leakage detection system required: TYES V NO If ye	es, please explain why.					



