

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 la	nd description
■ Approval    □ Registration    □ Authorization    □	BA25010	W1/2 2	8-61-26 W4M,
Amendment		NE 29-6	61-26 W4M
APPLICATION DISCLOSURE			
This information is collected under the authority of the Agrovisions of the Freedom of Information and Protection of written request that certain sections remain private.			
Any construction prior to obtaining an NRCB permit prosecution.	is an offence and is subject to	enforcement a	action, including
<ul><li>i, the applicant, or applicant's agent, have read and under provided in this application is true to the best of my know</li></ul>		I acknowledge	that the information
18/3/25			
Date of signing	Signature	-	
HR of Pibroch	ELI TSO	heller	
Corporate name (if applicable)	Print name		X-1-2
GENERAL INFORMATION REQUIREMENTS			
Proposed facilities: list all proposed confined feeding of	pperation facilities and their dime	nsions. Indicate	whether any of the
proposed facilities are additions to existing facilities. (att	tach additional pages if needed)	D:	
Proposed facilities		100	mensions (m) , width, and depth)
layer burn		140 >	( 30
ess collectory /office		18 x	14
manure pad		18 x	10
	÷ 13		
Existing facilities: list ALL existing confined feeding op	peration facilities and their dimens	sions	
Existing facilities	Dimensior (length, width,	- 12.00	NRCB USE ONLY
See attachel			
NRCB USE ONLY			

#### ${\bf Part~2-Technical~Requirements}$

NRCB Natural Resources
Conservation Board

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

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
hog 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 20'dee	,
hou lagoon	35m × 44m & 30m × 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		The Company
dury pers		
calf burn		
		HARRING
		The Control of the
		A CONTRACTOR OF THE PARTY OF TH
-		

Last updated: 31 Mar 2020		Palaz
	NRCB USE ONLY	



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

repurpose old	burns for pulli	ets	
	202	00	
nstruction completion date for proposed facilit	ties	40	The second second
ditional information	I harri a com		Clare and real
in a tank numbers. Complete only if livesteck numb	hers are different from wh	at was identified in the Part 1	application, Note:
ivestock numbers: Complete only if livestock numbers increase in your Part 2 application,	bers are different from wha a new Part 1 application r	at was identified in the Part 1 nust be submitted which may	application. Note:
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).	bers are different from wha a new Part 1 application r	nust be submitted which may	. application. Note: y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type	a new Part 1 application r	Proposed increase or	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	bers are different from what a new Part 1 application representation of the permitted number	nust be submitted which may	application. Note: y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	Permitted number	Proposed increase or decrease in number	Total
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	y result in a loss of
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	Permitted number	Proposed increase or decrease in number	Total
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	Total
restock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	Total
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).  Livestock category and type (Available in the Schedule 2 of the Part 2 Matters	a new Part 1 application r	Proposed increase or decrease in number	Total



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

<u>OP</u>	I DO want my water licence application coupled to my AOPA permit application.
Cia	ned thisday of, 20
Jig	Signature of Applicant or Agent
<u>OP</u>	TION 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 <b>independently of</b> 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 <i>Water Act</i> .
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 <i>Water Act</i> licence will <b>not</b> be relevant to EPA's consideration of whether to grant the <i>Water Act</i> licence application.
5.	I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the <i>Water Act</i> licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the <i>Water Act</i> . 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 <i>Water Act</i> ).
	<b>AS RELEVANT:</b> I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the <i>Bow, Oldman and South Saskatchewan River Basin Water Allocation Order</i> [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
	Provide: Water licence application number(s)
Sigi	ned this day of, 20 Signature of Applicant or Agent
<u>OP</u>	TION 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
Sia	ned 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. <b>Provide</b> : Water license number(s) or	water convey	ance agreement	t details	_
Signed this March	_, 2025.		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)

xisting	AND A SECOND CONTRACT OF STREET STREET, STREET STREET, STREET STREET,					ayer barn	
ropose	d 2:			Propose	d 3:		
Facili	ty and environmental risk	1 3 TO 1	Faci	lities		NRC	B USE ONLY
ı dem	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	All and the second of	YES NO YES with exemption	
e c	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO 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	11.7	150	YES NO YES with exemption	
Su ir	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	100	300 M			YES NO YES with exemption	
Groundwater	What is the depth to the water table?		>6m			YES NO YES with exemption	
Groundwate	What is the depth to the groundwater resource/aquifer you	250'				☐ YES ☐ NO ☐ YES with	

exemption

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

draw water from?



· wells



View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. 291152

GOWN 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.

Drilling Company Well ID

Date Report Received 1999/02/03

Well Identification and L	ocation		·-	Meas	urement in Metric
Owner Name PIBROCH COLONY	Address P.O. BOX 1544 W	Tow ESTLOCK	n Pro	vince Country	Postal Code T0G 2L0
Location 1/4 or LSD 16	SEC TWP RGE 29 61 26	4		dditional Description	
Measured from Boundary of	of		ecimal Degrees (NAD 83)	Elavadia -	_
	m from South	Latitude 54.310431 How Location Obtained		Elevation  How Elevation Obtained	<u>m</u>
182.88	m from East	Map	9	Not Obtained	
*		I Mah		1 Not Obtained	
Drilling Information				•	
Method of Drilling Rotary		Type of Work New Well			
Proposed Well Use Domestic				1000 m	
Formation Log		Measurement in Metric	Yield Test Summary	Meas	urement in Metric
Depth from Water ground level (m) Bearing	Lithology Description		Recommended Pump Rate Test Date Water Re		ater Level (m)
6.10	Brown Clay	*** . **	1995/11/02		14.63
21.34	Soft Clay & Sand		Well Completion	Meas	urement in Metric
26.82	Gray Clay		Total Depth Drilled Finishe	d Well Depth Start Date	End Date
29.87	Green Shale		100.58 m	1995/10/26	1995/11/02
30.48	Brown Shale		Borehole		
31.39	Brown Shale		Diameter (cm)	From (m) 0.00	To (m) 100.58
33.53	Gray Shale	· · · · ·	0.00 Surface Casing (if applica		100.36
35.05	Sandy Shale		Steel Steel	Plastic	
36.27	Gray Shale		Size OD : 14		11.43 cm
40.84	Sandy Shale			78 cm Wall Thickness :	0.602 cm
41.15	Coal	-	Bottom at : 29	26 m Top at : Bottom at :	6.10 m 97.54 m
47.85	Greenish Gray Shale		Perforations	Bollom at .	97.54 III
49.38	Sandy Shale			iameter or	
51.82	Gray Shale			Slot Width Slot Length Ho	le or Slot terval(cm)
52.43	Sandy Shale		From (m) To (m) 54.86 60.96	(cm) (cm) Int 0.051	7.62
53.95	Greenish Gray Shale		67.06 73.15 79.25 97.54	0.000	0.00
59.74	Coarse Grained Shale & Sa	ndstone		0.000	0.00
62.18	Gray Shale		Perforated by Machine		
62.79	Sandstone		Annular Seal Driven		
64.01	Gray Shale			m_to29.26 m_	
64.92	Dark Shale	ł	Amount Other Seals	<del></del>	
65.23	Hard Sandstone		Type	At (m	,
66.45	Gray Shale				
67.06	Coal		Screen Type		
70.10	Greenish Gray Shale	. ]	1	.00 cm	
73.15	Gray Shale		From (m)		ot Size (cm)
74.07	Gray Sand				_
79.25	Gray Shale		Attachment	D. H FINI	
80.77	Gray Sand		Top Fittings	Bottom Fittings	

**Contractor Certification** 

80.77

85.34

96.01

97.23

Name of Journeyman responsible for drilling/construction of well

Gray Sand Greenish Gray Shale

Gray Shale

Gray Sand & Sandstone

UNKNOWN NA DRILLER

Company Name RENE ARTS WATERWELL LTD. Certification No

Type Artificial

Amount

Pack

Copy of Well report provided to owner Date approval holder signed

1000.00 Pounds

Grain Size 10-20



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

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

Drilling Company Well ID

GOWN ID					•				Dat	e Report Receive	d 1999/02/03
Well Iden	ification and l	ocation									Measurement in Metric
Owner Nar PIBROCH			Address P.O. BOX	1544 WES	TLOCK	Town			Province	Country	Postal Code T0G 2L0
Location	1/4 or LSD 16	SEC 29	<i>TWP</i> 61	RGE <b>26</b>	W of MER 4	Lot	Block	Plan	Additional L	Description	
Measured		of m from So m from Ea			GPS Coordir Latitude 5 How Location	4.310431	•	es (NAD 83 tude <u>-113.</u> 8	353361 Ek	evation  w Elevation Obta	m nined

	102.00	III IIOIII East	Мар		Not Obtained
Depth from ground level (m)	Water	Lithology Description		1	
	Bearing				
99.06	·	Sandy Sandstone			
100.58		Gray Shale			
,					
				ł	
				l l	

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

1630003

GOWN 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.

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 WES	TLOCK	Province AB	Country CA	Postal Code T7P 2P5
Location 1/4 or LSD NE	SEC TWP RGE 29 61 26	W of MER Lot 4	Block Plan		Description	
	f m from m from	GPS Coordinates in Dec Latitude 54.308600 How Location Obtained Not Verified	Longitude113.8	357000 E	Elevation fow Elevation Obtain lot Obtained	m red
Drilling Information Method of Drilling Rotary Proposed Well Use Stock		Type of Work New Well				
Formation Log Depth from Water ground level (m) Bearing 6.10	Lithology Description  Brown Clay	easurement in Metric	2006/10/13	•	36.37 L/min	Measurement in Metric atic Water Level (m) 9.14
6.10 18.29 27.43 32.00 33.53 34.44 35.05 36.58 36.88 40.23 43.89	Brown Clay Gray Clay & Rocks Gray Hard Clay Greenish Gray Shale Green Sandy Shale Soft Sandstone Sandstone Sandy Shale Brown Shale & Coal Greenish Gray Shale Coarse Grained Shale		Well Completion Total Depth Drilled 43.89 m Borehole Diameter (cm) 17.15 Surface Casing (if a Steel Size OD: Wall Thickness: Bottom at: Perforations  From (m) To (m 33.53 42.6: Perforated by M Annular Seal Placed from Amount Other Seals  Type	Pipplicable)  14.13 cm 0.478 cm 28.96 m  Diameter of Slot Width (cm) 7 0.051 dachine en & Cuttings 0.00 m to	opth Start Date 2006/10/09  from (m) 0.00  Well Casing/Lir Plastic  Size OD  Wall Thickness Top a Bottom a	Measurement in Metric  End Date 2006/10/12  To (m) 43.89  Det 11.43 cm 0.546 cm t: 0.00 m t: 42.67 m  Hole or Slot Interval(cm) 7.62  At (m)

**Contractor Certification** 

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name

RENE ARTS WATERWELL LTD.

Certification No

VC7442



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

View in Imperial Export to Excel

1630003

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

14/ 11/												
well iden	tification and L	ocation.									Measurement	in Metric
Owner Nar PIBROCH	ne COLONY		Address P.O. BOX 9	5330		Town WEST	LOCK		Province AB	Country CA	Posta T7P 2	al Code 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 i		m from m from	_				•	es (NAD 83) tude113.8		Elevation How Elevation Ob Not Obtained		
Additional	Information										Measurement	in Metric
	From Top of Cas on Flow Rate				60.96 cm	Is	s Flow Cont		<del>-</del>			
	nded Pump Rate	е			36.37 L/mi	•	Installed 1	es	Make	Depth	т Н.Р.	
		5 0,5 (1				,,,,,	000 @ 10			Model (Output R	Rating)	
	Encounter Salin	e water (>40				לי 		Geo	ohysical Log	Taken		
Remedia Addition	al Action Taken hal Comments or OAL AT 121 FT	n Well	(	Gas	Depti	לי	m Sample Co	Geo <sub>l</sub>	ohysical Log Submitted to	Taken ESRD	mitted to ESRD	
Remedia Addition	al Action Taken nal Comments or OAL AT 121 FT	n Well	(	Gas	Depti	לי	m Sample Co	Geo	ohysical Log Submitted to otability	Taken ESRD Subr	mitted to ESRD	
Remedia Addition TRACE CO	al Action Taken hal Comments or DAL AT 121 FT	n Well	(	SO FRAC	Depti	לי	M Sample Co	Geo	ohysical Log Submitted to otability  en From G Depti	Subn		in Metric
Addition TRACE CO Yield Test Test Date 2006/10/1: Method of	al Action Taken hal Comments or DAL AT 121 FT	n Well BELOW GRO Start Time 12:00 AM al	DUND. AL	SO FRAC	SAND USED Fo	לי	Sample Co	Georgian Georgia Georgian Georgian Georgia Georgian Georgian Georgian Georgian Georgian Georgian Georg	ohysical Log Submitted to otability  en From G Depti	Subn	mitted to ESRD	in Metric
Addition TRACE CO Yield Test Test Date 2006/10/13 Method of Depth With	al Action Taken  al Comments or  OAL AT 121 FT  3  F Water Remove  Type A  Removal Rate	start Time 12:00 AM  al ir 54. 30.	DUND. AL 55 L/min 48 m	SO FRAC	SAND USED Fo	לי	Sample Co	Georgian Georgia Georgian Georgian Georgia Georgian Georgian Georgian Georgian Georgia Georgia Georgia	ohysical Log Submitted to otability  en From G Depti	Subrational Level in to water level lapsed Time Minutes:Sec 0:00 40:00	Measurement Recovery (m)	in Metric

Contractor Certification

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

Company Name

RENE ARTS WATERWELL LTD.

Certification No

VC7442



View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

1630006

GOWN 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.

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 WEST	LOCK	Province AB	Country CA	Postal Code T7P 2P5
Location 1/4 or LSD 11	SEC         TWP         RGE           28         61         26	W of MER Lot 4	Block Plan		al Description	
Measured from Boundary o	f	GPS Coordinates in Dec			Planata.	
_	m from North	Latitude 54.306790  How Location Obtained	Longitude113.8	842190	Elevation How Elevation Obtain	m
30.48	m from East	Not Verified			Not Obtained	leu l
-		THOS TOTALISM		<u> </u>	1101 001011100	
Drilling Information						
Method of Drilling Rotary		<i>Type of Work</i> New Well				
Proposed Well Use Stock						
Formation Log	M	easurement in Metric	Yield Test Summa	iry		Measurement in Metric
Depth from Water ground level (m) Bearing	Lithology Description		Recommended Pum	-	L/min Rate (L/min) Sta	atic Water Level (m)
1.22	Organic Matter		2001/10/09	11.37		10.88
2,44	Gravel	· · · · · · · · · · · · · · · · · · ·	Well Completion			Measurement in Metric
7.62	Gray Sandy Clay		Total Depth Drilled	Finished Well		End Date
39.62	Gray Stoney Clay		109.73 m		2001/10/04	2001/10/08
44.81	Gray Shale	• 11	Borehole			
45.11	Coal	1 1	Diameter (cm)		From (m)	To (m)
45.72	Sandy Shale		17.15		0.00 Well Casing/Lir	109.73
48.16	Gray Shale	11	Surface Casing (if a Steel	ippiicabie)	Plastic	ner
49.07	Sandy Shale		Size OD :	14.13 cm	_ Size OE	D: <u>11.43 cm</u>
51.82	Green Shale		Wall Thickness :	0.478 cm	Wall Thickness	
54.86	Gray Shale		Bottom at :	42.67 m	-	
56.69	Sandy Shale		Perforations		Bottom a	t: 106.68 m
57.61	Gray Sandstone		renorations	Diameter	or	
64.62	Gray Shale			Slot Wid	ith Slot Length	Hale or Slot
67.06	Sandy Shale		From (m) To (n 88.39 106.6		(cm)	Interval(cm)
69.49	Brown Shale			lachine		•
70.10	Coal		•			
73.15	Brown Shale		Annular Seal Drive Placed from	on & Cuttings 0.00 m to	42.67 m	
73.76	Coal	. ] [	Amount	<u> </u>	74,07 111	
81.69	Gray Shale	11	Other Seals			
82.30	Sandstone	[ ]	Тур	æ		At (m)
85.34	Sandy Shale	11				
88.39	Gray Shale	11	Screen Type			
89.00	Sandstone	1	Size OD :	cm	_	
106.68	Sandy Shale & Sandstone	11	From (m)		To (m)	Slot Size (cm)
109.73	Gray Shale		Attachment			
,		11	Attachment Top Fittings		Bottom Fitting	<u> </u>
						<u> </u>
			Pack Type Artificial		Grain Size 10	1/20
		11		.00 Pounds		
		-				

**Contractor Certification** 

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name

RENE ARTS WATERWELL LTD.

Certification No

VC7442



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

View in Imperial Export to Excel

1630006

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

GOWN ID

Well Identification	n and L	ocation									Meas	urement in Metric
Owner Name PIBROCH COLON	ΙΥ		Address P.O. BOX	5330			ewn ESTLOCK		Province AB	Cou CA	ntry	Postal Code T7P 2P5
Location 1/4 o	r LSD	SEC <b>28</b>		RGE 26	W of MER 4					nal Description		
Measured from Bo	762.00	f m from No m from Ea			Latitude	54.30679 ntion Obtain	Decimal Degi 10Lon ed	•	•	Elevation How Elevatio Not Obtained	n Obtained	<u>m</u>
Additional Information  Distance From Touristance Flow	p of Casi				60.96 cm		Is Flow Co	entrol installe				urement in Metric
Recommended P	ump Rate		L/min				ump Installed			Depth _	m	
	<b>-</b>				***		,,,,,	<del></del> -		Model (Out	out Rating)	
Did you Encoun Remedial Action Additional Com	n Taken ments on	ı Well		Gas	De	pth	m Sample (	Geo	ophysical Log Submitted to Potability	ESRD		ESRD
Yield Test								Та		Fround Level	Meas	urement in Metric
Test Date 2001/10/09		Start Time 12:00 AM		Stati	ic Water Leve 10.88 m		Pu	mping (m)	E	lapsed Time Minutes:Sec	Rec	covery (m)
Method of Water  Remova  Depth Withdrawn  If water removal p	Type <u>Ai</u> I Rate From	ir 1										
Water Diverted f	or Drillin	g										
Water Source				Am	ount Taken	L			Diversio	n Date & Time		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

Company Name RENE ARTS WATERWELL LTD.

Certification No VC7442



View in Imperial Export to Excel

GIC Well ID 250394 GoA Well Tag No. **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** 1981/09/21 Measurement in Metric Well Identification and Location Owner Name Address Town Province Country Postal Code **HUTTERIAN BRETHREN** PIBROCH COLONY TWP Additional Description SEC RGE W of MER Block Plan Location 1/4 or LSD Lot 28 61 26 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 54.306755 Longitude -113.841025 Elevation 624.84 m m from How Location Obtained How Elevation Obtained m from Estimated Мар **Drilling Information** Type of Work Method of Drilling New Well Rotary Proposed Well Use

Stock	
Formation Log	Measurement in Metric
Depth from Wa ground level (m) Bea	
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

ı	Yield Test Summary	Measurement in Metric
	Recommended Pump Rate 13.64 Test Date Water Removal Rate (L	
	1981/06/09 18.18	30.48
İ	well Completion	weasurement in wetric
	Total Depth Drilled Finished Well Depth	Start Date End Date 1981/06/04 1981/06/09
	100.58 m	1981/06/04 1981/06/09
	Borehole	() To ()
	Diameter (cm) From 0.00 0.0	(m) <u>To (m)</u> 0 100.58
		Well Casing/Liner
	Galvanized Steel	Sizz OD
	Size OD : 11.58 cm Wall Thickness : 0.358 cm	Size OD: 0.00 cm
	Bottom at : 76.81 m	Top at : 0.00 m
	Bottom at	Bottom at : 0.00 m
	Perforations	Dollom ut
	Diameter or Slot Width From (m) To (m) (cm)	Slot Length Hole or Slot (cm) Interval(cm)
	Perforated by	
	Annular Seal Driven	76.04
	Placed from 0.00 m to	76.61 M
ı	Amount Other Seals	-
	Туре	At (m)
	Screen Type	
	Size OD : 0.00 cm_	
		m) Slot Size (cm)
	Attachment	
	Top Fittings	Bottom Fittings
	Pack	·=
	Туре	Grain Size
	Amount	<del></del>

C	contractor	Certification

100.58

Name of Journeyman responsible for drilling/construction of well

Gray Shale

**UNKNOWN NA DRILLER** 

Company Name MEASURES, CLARK DRILLING Certification No



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

View in Imperial Export to Excel

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

250394

Well Identification and Location	
weil identification and Location	Measurement in Metric
Owner Name Address Town Province HUTTERIAN BRETHREN PIBROCH COLONY	Country Postal Code
11 28 61 26 4	nal Description
Measured from Boundary of GPS Coordinates in Decimal Degrees (NAD 83)  m from 54.306755 Longitude -113.841025  How Location Obtained  Map	Elevation 624.84 m  How Elevation Obtained Estimated
Additional Information	Measurement in Metric
Distance From Top of Casing to Ground Level Is Flow Control Installed	
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  Gas Depth m Geophysical Log  Remedial Action Taken Submitted to	g Taken
Sample Collected for Potability Additional Comments on Well DRILLER REPORTS WATER IS SOFT	Submitted to ESRD
Yield Test Taken From G  Test Date Start Time Static Water Level	Ground Level Measurement in Metric h to water level
1981/06/09 12:00 AM 30,48 m Pumping (m) E	Elapsed Time Recovery (m) 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	n Date & Time

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

**UNKNOWN NA DRILLER** 

Company Name MEASURES, CLARK DRILLING Certification No



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

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

291151

Drilling Company Well ID Date Report Received

GOWN ID		E.	ccuracy. The ini	iomizuon on	una report will	oe retained in a p	udiic dalabas	ы.		Date Report Receiv	red 1999/02/03
Well Identific	ation and L	ocation							*****		Measurement in Metric
Owner Name PIBROCH CO	LONY		Address P.O. BOX 1	1544 WEST	TLOCK_	Town			Province	Country	Postal Code T0G 2L0
	1/4 or LSD 11	SEC 28	<i>TWP</i> 61	RGE 26	W of MER		Block	Plan		nal Description	
Measured from	n Boundary o	f				dinates in Dec	-	•			
_	304.80	m from So	cuth	1		54.307687	Longit	tude <u>-113.</u>	839807	Elevation	<u>m</u>
_	121.92	m from Ea	ast			tion Obtained				How Elevation Obt	ained
		_		<u> </u>	Мар					Not Obtained	
Drilling Infor	nation					<del> </del>					
Method of Dr. Rotary	illing				Type of V New Well	Vork					
Proposed We Domestic	ll Use										
Formation L	og			Me	asurement	in Metric	Yield Tes	st Summa	ıry		Measurement in Metric
Depth from ground level (	Water m) Bearing	Litholog	gy Description	1			Recomme Test Da	nded Pum ate W		18.18 L/min Rate (L/min)	Static Water Level (m)
6.10	TI A A T	Brown	Clay & Rocks	;		11	1995/10	)/26	18.1	18	22.43
18.29		Gray C	lay & Rocks	na Au		1 7	Well Con	noletion			Measurement in Metric
22.86		Gray C	Jay					•	Finished Wel	l Depth Start Date	End Date
24.38		Gray S	hale			- 1	99.06 m			1995/10/23	3 1995/10/26
27.43		Greenis	sh Gray Shale	• · · · · • · · · · · · · · · · · · · ·		11	Borehole				
28.96		Gray S	ihale			11	Dian	neter (cm) 0.00		From (m)	To (m) 99.06
30.48		Sandy	Shale				Surface C		applicable)	Well Casing	
30.78		Sands	stone			1	Steel	ruomy (ii c	.pp://dubic/	Plastic	
41.45		Greenis	sh Gray Shale	<b>:</b>		11	Si	ize OD : _	14.12 cr	_	OD : 11.43 cm
42.37		Sandy	Shale			11	Wall Thi	_	0.478 cr		
45.42		Greenis	sh Gray Shale	2		11	Boi	ttom at : _	25.30 m		p at : 6.10 m
46.63		Sands	stone			11	Perforation	nne		Botton	m at : 99.06 m
49.07		Sandy	Shale			11	7 07707000	J.1.5	Diamete	er or	
54.56		Greenis	sh Gray Shale	•					Slot W	idth Slot Length	
54.86		Sands	stone				From (m 73.15	) To (n 79.2			Interval(cm) 7.62
56.39	. = / - /	Sandy	Shale				85.34	97.5			0.00
65.53		Greenis	sh Gray Shale	2		•	Perforated	dby N	fachine		
67.06		Brown	Shale				Annular S	Seal Drive	an .		
71.32		Greenis	sh Gray Shale	•			Placed		22.86 m	to 25.30 m	
72.24		Coal				11	Am	ount			•
74.37		Sandy	Shale & Sand	istone		11	Other Sea	als			
78.03		Greenis	sh Gray Shale	· · · · ·		11		Тур	oe e		At (m)
78.64		Coal				-					
79.55		Greenis	sh Gray Shale	•			Screen T	ype			
82.30			rained Shale				S	ize OD : _	0.00 cr	<del></del>	
91.44	'		Sand & Sandst	tone		11	Fi	rom (m)		To (m)	Slot Size (cm)
94.49		Gray S					Atta	chment			
97.54			andy Sand & S	Shale				Fittings		Bottom Fitt	ings
99.06			sh Gray Shale				Pack	J- <u> </u>			
								Artificial		Grain Size	10-20
l							Amount		00 Pounds		

**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

291151

GIC Well ID GoA Well Tag No.

1999/02/03

**GOWN 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. Drilling Company Well ID
Date Report Received Well Identification and Location Measurement in Metric Owner Name Country Postal Code Address Town Province P.O. BOX 1544 WESTLOCK PIBROCH COLONY T0G 2L0 4/4 ac LCD | CEC Additional Description Plack

11 11	28 61	26 4	LOI BIOCK	Plan Ad	ditional Description	
	dary of 4.80 m from South 1.92 m from East	GPS Coordinate Latitude 54.3 How Location C Map		ees (NAD 83) pitude113.839807	Elevation How Elevation C Not Obtained	
Additional Informati	on					Measurement in Metric
le Artesian Flow	f Casing to Ground Level		is Flow Cor	ntrol Installed		
Recommended Pump		18.18 L/min	Pump Installed		Depth	m
•	o Intake Depth (From TOC)		Type <u>SUB</u>		)	
, recommended r um,		02,00 111	.,po <u>000</u>		Model (Output	Rating)
Did you Encounter	Saline Water (>4000 ppm TDS		<u>m</u>		Ipon Completion	
Domenial Action To	Ga	s Depth _	m			
Remedial Action Ta	aken			Submitt	ed to ESRD	
Additional Comme	nts on Well DISTANCE FROM TOP OF C	ASING TO GROUND LEVE		collected for Potability	sut	omitted to ESRD
Yield Test				Taken Fro	m Ground Level	Measurement in Metric
Test Date	Start Time	Static Water Level		ı	Depth to water level	
1995/10/26	12:00 AM	22.43 m	Риг 	nping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water Re	movel			22.43	0:00	
	pe Pump			24.36 26.24	1:00 2:00	71.32
	ate 18.18 L/min		•	28.25	3:00	69.59
Reliioval Ra	10.16 ()			30.02	4:00	68.07
Depth Withdrawn Fro	om 83.82 m			31.72	5:00	66.65
If water removal perio	od was < 2 hours, explain why			33.73	6:00 7:00	65.18
ii water removal pend	oo was < 2 nours, explain why			35. <u>81</u> 38.05	7: <u>00</u> 8:00	63.9 <u>1</u> 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 58.45	20:00 25:00	51.82
				61.52	30:00	<u>48.67</u> 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	105:00 120:00	35.97 35.38
					120.00	33,30
Water Diverted for I	Drilling					

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

RENE ARTS WATERWELL LTD.

Certification No



View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. 1630088

GOWN 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.

Drilling Company Well ID 2007/09/19

Well Identification and Lo	ocation				Measurement in Metric
Owner Name	Address	Town	1	Province	Country Postal Code
PIBROCH HUTTERITE COL	LONY P.O. BOX 5330	WES	TLOCK	ALBERTA	CA T7P 2P5
Location 1/4 or LSD 14	SEC TWP RGE 28 61 26	W of MER Lot 4	Block Plan	Additional Descrip	tion
Measured from Boundary of	,		cimal Degrees (NAD 83)	<b>I</b>	
	n from North	Latitude 54.310410	Longitude <u>-113.8</u>	<del></del>	
60.96 r	n from East	How Location Obtained Not Verified	1	Not Obtai	vation Obtained
		140t Actimon		1 1101 0012	uicu
Drilling Information				<del></del>	
Method of Drilling		Type of Work			
Rotary		New Weil			
Proposed Well Use Domestic & Stock					1
Formation Log	Me	asurement in Metric	Yield Test Summar	ν	Measurement in Metric
Depth from Water	Lithology Description		Recommended Pump		1
ground level (m) Bearing	Littology Description	i i	•	ter Removal Rate (L/mi	
1.22	Organic Matter		1999/05/20	81.83	35.54
1.83	Topsoil		Weil Completion		Measurement in Metric
6.71	Brown Clay		•	inished Well Depth S	Start Date End Date
25.91	Gray Clay & Rocks		103.63 m 1	03.63 m 19	999/02/08 1999/02/14
29.57	Gray Clay		Borehole		
33.53	Silty Sand		Diameter (cm)	From (m)	
36.58	Greenish Gray Shale		17.15 Surface Casing (if a	0.00 onlicable) Wei	36.58 Il Casing/Liner
38.10	Brown Shale		Steel	Plas	
38.40	Brown Sandstone		Size OD :		Size OD : 11.43 cm
40.23	Sandy Shale		Wall Thickness :		'all Thickness : 0.602 cm
43.28	Gray Shale		Bottom at :	36.58 m	Top at : 0.00 m
44,20	Coal		Perforations		Bottom at : 103.63 m
45.11	Gray Shale		7 071010000	Diameter or	
48.46	Greenish Gray Shale		From (m) To (m)		ot Length Hole or Slot
49.68	Sandstone & Shale Ledges		From (m) To (m) 95.10 101.19		(cm) Interval(cm) 7.62
53.95	Gray Shale	1	Perforated by Ma	achine	
57.30	Sandy Shale & Coal	]	•	AVA INTO	ŀ
59.44	Sandstone & Shale Ledges		Annular Seal Placed from	to	m
60.96	Gray Shale	]	Amount		<del></del>
64.01	Shale & Sandstone		Other Seals		
68.88	Gray Shale		Туре		At (m)
69.49	Coal		Drive Drive	Contract of the Contract of th	33.53 36.58
71.93	Dark Shale			•••	30.30
73.15	Black Shale & Coal	• 1	Screen Type		
77.42	Gray Sandy Shale	]	Size OD :		
85.34	Gray Shale	1	From (m)	To (m)	Slot Size (cm)
87.78	Sandy Shale	11	Attachment		<u> </u>
95.10	Gray Shale		Top Fittings	Be	ottom Fittings
101.80	Gray Sandstone	· · · · · · · · · · · · · · · · · · ·	Pack	- <del></del>	
103.63	Gray Shale	1	Type Artificial	G	rain Size 10/20
		] [		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



View in Imperial Export to Excel

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

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.

**Date Report Received** 2007/09/19 **GOWN ID** Well Identification and Location Measurement in Metric Postal Code Owner Name Address Province Country Town PIBROCH HUTTERITE COLONY P.O. BOX 5330 **ALBERTA** WESTLOCK T7P 2P5 CA TWP W of MER Additional Description Location 1/4 or LSD SEC RGE Lot Block Plan 28 26 14 61 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Longitude -113.842190 Latitude 54.310410 Elevation m 6.10 m from North How Location Obtained How Elevation Obtained 60.96 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 Umin Rate Describe Recommended Pump Rate 81.83 L/min Pump Installed Yes Depth 85.34 m Recommended Pump Intake Depth (From TOC) 85.34 m Type Submersible H.P. Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth Well Disinfected Upon Completion m Gas \_\_\_ Depth\_ m Geophysical Log Taken Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well PURPOSE ALSO = FEEDLOT. **Yield Test** Taken From Ground Level Measurement in Metric Depth to water level Test Date Start Time Static Water Level Pumping (m) Elapsed Time 1999/05/20 35.54 m Recovery (m) 8:00 AM Minutes:Sec 35.54 65.78 0:00 Method of Water Removal 45.72 1:00 59.74 Type Pump 51.21 2:00 54.62 54.56 3:00 50.14 81.83 L/min Removal Rate 56.39 85.34 m Depth Withdrawn From 57.58 5:00 45.57 58.46 6:00 44.32 If water removal period was < 2 hours, explain why 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 14:00 16:00 20:00 25:00 39.30 30:00 38.92 35:00 38.65 63.73 40:00 38.40 50:00 38.04 64.50 60:00 37.76 64.89 75:00 37.46 90:00 37.25 105:00 36.91 120:00 36.73 Water Diverted for Drilling Diversion Date & Time Water Source Amount Taken L

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



View in Imperial Export to Excel

250397

GOWN 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.

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

1983/06/27

Well Identification and Lo	cation		Measurement in Me	tric
Owner Name PIBROCH COLONY	Address P.O. BOX 1544 WE	Town ESTLOCK	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 Additional Description	
	n from	GPS Coordinates in Dec Latitude <u>54.308563</u> How Location Obtained Map	Longitude -113.844117 Elevation m How Elevation Obtained Not Obtained	
Drilling Information Method of Drilling Unknown Proposed Well Use Stock		<i>Type of Work</i> New Well		
Formation Log		Measurement in Metric	Yield Test Summary Measurement in Me	tric
Depth from Water ground level (m) Bearing	Lithology Description		Recommended Pump Rate 0.00 L/min Test Date Water Removal Rate (L/min) Static Water Level (m)	
14.33	Clay	1 [	1983/04/11 68.19 7.01	
14.63 17.68	Boulders Sand		Well Completion  Total Depth Drilled Finished Well Depth Start Date 91.44 m 1983/04/06 1983/04/11	tric
18.29	Boulders			
26.21	Soft Clay		Borehole Diameter (cm) From (m) To (m)	- 1
36.58	Gray Shale		Diameter (cm) From (m) To (m) 0.00 0.00 91,44	-
41.15	Sandy Shale		Surface Casing (if applicable) Well Casing/Liner	
42.67	Gray Shale		Steel         Steel           Size OD:         14.12 cm         Size OD:         11.58 cm	
43.89	Green Shale		Size OD :         14.12 cm         Size OD :         11.58 cm           Wall Thickness :         0.396 cm         Wall Thickness :         0.000 cm	
46.63	Gray Shale & Coal		Bottom at : 45.72 m Top at : 0.00 m	- 1
67.06	Gray Shale		Bottom at : 91.44 m	
68.28	Coal	11	Perforations	
78.64	Gray Shale		Diameter or	- 1
82.30 Yes	Water Bearing Sandstone	.	Slot Width Slot Length Hole or Slot From (m) To (m) (cm) (cm) Interval(cm)	- 1
86.56	Gray Shale		79.25 91.44 0.318 30.48	- 1
88.09 Yes	Water Bearing Sandstone		Perforated by Torch	1
89.61	Gray Shale		·	
91.44	Brown Shale & Coal	1 1	Annular Seal Driven Placed from 0.00 m to 45.72 m	
		1 1	Amount	
			Other Seals	
		[ ]	Type At (m)	
		<b>!</b>	Screen Type	
		i I	Size OD : 0.00 cm	- 1
			From (m) To (m) Slot Size (cm)	-
			Attachment	
		[ ]	Top Fittings Bottom Fittings	
			Pack	
			Type Grain Size	
		[ [	Amount	
		1		-
0-1-1-6 "0 "				
Contractor Certification				

Certification No

UNKNOWN NA DRILLER Company Name

Name of Journeyman responsible for drilling/construction of well



View in Imperial Export to Excel 250397

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

GOWN 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		au	curacy. The in	IOINIGUON ON	uns report will be	rotation in a pr	uviit talava			Date Report Red	eived	1983/06/27
Well Identif	fication and Lo	cation						,	-		M	easurement in Metric
Owner Name PIBROCH C	_		Address P.O. BOX	1544 WES	<b>FLOCK</b>	Town			Province	e Count	ry	Postal Code T0G 2L0
Location	1/4 or LSD NW	SEC 28	<i>TWP</i> 61	RGE 26	W of MER 4	Lot	Block	Plan		onal Description		
Measured fr		n from n from			GPS Coordii Latitude <u>!</u> How Locatio Map		•	•	83) 13.844117	Elevation How Elevation Not Obtained		
Additional I	nformation										Me	easurement in Metric
Is Artesian	om Top of Casir Flow Rate				cm	Is	Flow Cor		illed			
	ded Pump Rate				0.00 L/mi	n <i>Pump</i>	Installed	Yes		Depth	п	
	ded Pump Intak		From TOC)			•	SUB		Make			1
							-			Model (Output	t Rating)	
Did you E	ncounter Saline	Water (>4	4000 ppm Tl	DS)	Depti	7	m	Well D	isinfected Upo	n Completion og Taken		
				Gas	Depti	·	m	(	Geophysical Lo	og Taken		
Remedial	Action Taken								Submitted			
	I Comments on EPORTS WATE		<del>-</del> T				Sample C	ollected f	or Potability	Su	ubmitted	to ESRD
Yield Test								-		Ground Level	Me	easurement in Metric
Test Date 1983/04/11		Start Time		Statio	: Water Level 7.01 m		Pun	nping (m)	-	th to water level Elapsed Time		Recovery (m)
Re Depth With	Water Removal Type Pu emoval Rate drawn From oval period was	6 9	8.19 L/min 1.44 m s, explain wh	у						Minutes:Sec		
Water Dive	rted for Drilling	3										
Water Sourc	e			Amo	ount Taken L	-			Diversi	on Date & Time		

**Contractor Certification** 

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name BIG IRON DRILLING LTD. Certification No



# Abertan Water Well Drilling Report View in Imperial Export to Excel 250404

GOWN ID		The driller supplie accuracy. The inf	es the data contained in formation on this report	n this report. The Pro will be retained in a	vince disclaims responsibili public database.	ty for its	GoA Well Tag No. Drilling Company Well ID Date Report Received	1988/08/15
Well Identi	fication and L	ocation					Me	easurement in Metric
Owner Nam HUTTERIAN	e N BRETHREN#	Address WELL 2 P.O. BOX 1	544 WESTLOCK	Town		Province	Country	Postal Code T0G 2L0
Location	1/4 or LSD NW	SEC TWP 28 61	RGE W of I 26 4		Block Plan		al Description	
Measured fr	om Boundary o	f			cimal Degrees (NAD 83)			
i		m from	Latitud		Longitude113.8	44117	Elevation	m
		m from	How L Map	ocation Obtained			How Elevation Obtained Not Obtained	
Drilling Info	ormation							
Method of L Rotary	Drilling		Type New V	o <i>f Work</i> Vell				
Proposed V Stock	Vell Use							
Formation	Log		Measureme	ent in Metric	Yield Test Summa	ry	Me	easurement in Metric
Depth from ground leve	Water (m) Bearing	Lithology Description			Recommended Pump Test Date Wa	Rate	68.19 L/min  Rate (L/min) Statio	: Water Level (m)
19.81		Soft Clay			1988/06/22	27.2	8	3.66
63.40		Clay			Well Completion		Me	easurement in Metric
74.68		Sandstone			Total Depth Drilled I	Finished Well	Depth Start Date	End Date
80.16	•	Shale			103.63 m		1988/06/22	1988/06/22
91.44	* - * - * - *	Sandstone			Borehole			
94.49		Fractured Shale			Diameter (cm) 0.00		From (m) 0.00	To (m) 103.63
99.97		Sandstone			Surface Casing (if a	pplicable)	Well Casing/Liner	•
103.63		Shale			Steel	4440	Plastic	44.50
i					Size OD :	14.12 cm	_	11.58 cm
1					Wall Thickness :	0.478 cm	Wall Thickness:	0.635 cm

<u> </u>	
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) <u>To (m)</u>
0.00 0.0	00 103.63
	Well Casing/Liner Plastic
Size OD : 14.12 cm	Size OD : 11.58 cm
Wall Thickness : 0.478 cm	Wall Thickness : 0.635 cm
Bottom at : 24.38 m	Top at : 21.34 m
	Bottom at : 103.63 m
Perforations	
	Slot Length Hole or Slot (cm) Interval(cm) 7.62
Perforated by Machine	
Annular Seal Driven & Welded Ring Placed from 0.00 m to	24.38 m
Amount	
Other Seals	-
Туре	<u>At (m)</u>
_	
Screen Type	
Size OD : 0.00 cm	
From (m) To (	(m) Slot Size (cm)
Attachment	
Top Fittings	Bottom Fittings
Pack	
Туре	Grain Size
Amount	<del></del>

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well

**UNKNOWN NA DRILLER** 

Company Name

MAHAR, VERN DRILLING SERVICES

Certification No



View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. **Drilling Company Well ID**  250404

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** 1988/08/15 Well Identification and Location Measurement in Metric Town Province Postal Code Owner Name Address Country **HUTTERIAN BRETHREN#WELL 2** P.O. BOX 1544 WESTLOCK **TOG 2L0** TWP RGE W of MER Additional Description Location 1/4 or LSD SEC Lot Block Plan NW 28 61 26 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude <u>54.308563</u> Longitude -113.844117 Elevation m m from How Elevation Obtained How Location Obtained m from Not Obtained Map Measurement in Metric Additional Information Distance From Top of Casing to Ground Level cm Is Artesian Flow Is Flow Control Installed Umin Describe Rate Recommended Pump Rate 68.19 L/min Pump Installed Depth Recommended Pump Intake Depth (From TOC) 91.44 m H.P. Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) \_\_\_ Depth Well Disinfected Upon Completion m Gas Depth m Geophysical Log Taken Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well **WATER AT 300-328** Yield Test Taken From Ground Level Measurement in Metric Depth to water level Test Date Start Time Static Water Level Pumping (m) Elapsed Time Recovery (m) 1988/06/22 12:00 AM 3.66 m Minutes:Sec Method of Water Removal Type Pump 27.28 L/min Removal Rate Depth Withdrawn From 13.72 m

<u> </u>		- <del></del>	
Water Diverted for Drilling			
Water Source	Amount Taken	Diversion Date & Time	
	L		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

If water removal period was < 2 hours, explain why

**UNKNOWN NA DRILLER** 

Company Name MAHAR, VERN DRILLING SERVICES Certification No



View in Imperial Export to Excel

GOWN 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.

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

Well Identification and Location			Management in Matria
	<del>-</del>		Measurement in Metric
Owner Name Address HUTTERIAN BRETHREN#WELL 1 P.O. BOX 1544 WI	ESTLOCK	n Provinc	e Country Postal Code T0G 2L0
Location         1/4 or LSD         SEC         TWP         RGE           NW         28         61         26	4		ional Description
Measured from Boundary of	l e	cimal Degrees (NAD 83)	Elevation
m from	Latitude 54.308563 How Location Obtained	Longitude <u>-113.844117</u>	Elevation m  How Elevation Obtained
m from	Map	•	Not Obtained
	· map		e
Drilling Information			
Method of Drilling Rotary	Type of Work New Well		
Proposed Well Use Stock			
Formation Log	Measurement in Metric	Yield Test Summary	Measurement in Metric
Depth from Water Lithology Description		Recommended Pump Rate	0.00 L/min
ground level (m) Bearing		Test Date Water Remov	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	<u> </u>	Well Completion	Measurement in Metric
53.64 Yes Water Bearing Coal	1	Total Depth Drilled Finished W	7
64.01 Hard Clay	<b>ii</b>	97.54 m	1988/06/21 1988/06/21
97.54 Shale & Sandstone	1	Borehole	
		Diameter (cm) 0.00	From (m) To (m) 0.00 97.54
		Surface Casing (if applicable) Steel	Well Casing/Liner
		Size OD : 14.12	cmSize OD :0.00 cm
		Wall Thickness : 0.478	
		Bottom at : 24.38	m Top at : 0.00 m
			Bottom at : 0.00 m
		Perforations	
			eter or Width Slot Length Hole or Slot
			m) (cm) Interval(cm)
		Perforated by	
		Annular Seal Driven & Welde	d Ring
		Placed from 0.00 m	· · · · · · · · · · · · · · · · · · ·
		Amount	
		Other Seals	
		Туре	At (m)
		Screen Type	
		Size OD : 0.00	cm I
		From (m)	To (m) Slot Size (cm)
		Attachment	
		Top 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



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

View in Imperial Export to Excel

250401

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

1988/08/15

GOWN ID Date Report Received Well Identification and Location Measurement in Metric Postal Code Owner Name Province Address Town Country **HUTTERIAN BRETHREN#WELL 1** P.O. BOX 1544 WESTLOCK T0G 2L0 TWP RGE W of MER Lot Block Plan Additional Description Location 1/4 or LSD

NW	28 61	26	4				
Measured from Bound	dary of m from m from			s in Decimal Degre 08563 Long btained	• •	7 Elevation How Elevation Not Obtained	m Obtained
Additional Informati	lon		- "				Measurement in Metr
Distance From Top o	of Casing to Ground Level			Is Flow Cor	ntrol Installed		
Rate	L/min						
Recommended Pump	p Rate		0.00 L/min	Pump Installed		Depth	m
Recommended Pumj	p Intake Depth (From TOC)		0.00 m	Туре	Ma	ake	Н.Р
						Model (Outpu	ut Rating)
Did you Encounter	Saline Water (>4000 ppm TL	DS)	Depth	m	Well Disinfected	d Upon Completion	
Remedial Action Ta	aken	Gas			Geophysic	ical Log Taken	
	ents on Well WATER QUANTITY IS INS	UFFICIENT	FOR PROPOSED				Submitted to ESRD
Yield Test					Taken F	rom Ground Level Depth to water level	Measurement in Metr
Test Date 1988/06/21	Start Time 12:00 AM	Static	Water Level 0.00 m	Pun	nping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Removal Ra	moval //pe Air ale 13.64 L/min //min 12.19 m						
If water removal perio	od was < 2 hours, explain wh	ly		_			
Water Diverted for I	Drilling	Amo	unt Takan			Niversian Date & Time	

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

MAHAR, VERN DRILLING SERVICES

Certification No



View in Metric Export to Excel

GIC Well ID GoA Well Tag No.

1630086

GOWN 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.

Drilling Company Well ID
Date Report Received 2007/09/19

Well Identification and Location				Measurement in Imperial
Owner Name Address PIBROCH HUTTERITE COLONY P.O. BOX 5330	Town WES	ГLОСК		Country Postal Code CA T7P 2P5
NW 28 61 26 4		Block Plan	Additional Descript	tion
weasarea moni boanaary or		cimal Degrees (NAD 83)	4000	
	atitude <u>54.308600</u> low Location Obtained	Longitude113.844		ration Obtained
	ot Verified		Not Obtai	
	ot voimos		1 110. 00	
Drilling Information				
	ype of Work lew Well			
Proposed Well Use Co-ops (Colonies)				
Formation Log Measurer	ment in Imperial	Yield Test Summary		Measurement in Imperial
Depth from Water Lithology Description	11	Recommended Pump F		pm
ground level (ft) Bearing			er Removal Rate (igpm	and the second control of the second
30.00 Brown Clay		1999/06/27		0.00
80.00 Gray Clay & Rocks		Well Completion		Measurement in Imperial
98.00 Sandy Clay		Total Depth Drilled Fin	•	tart Date End Date
110.00 Gray Clay			0.00 ft 19	999/06/24 1999/06/27
120.00 Sandy Clay		Borehole	From (B)	To (A)
122.00 Gray Clay		Diameter (in) 6.25	0.00	<u>To (ft)</u> 121.00
140.00 Coarse Grained Sand & Gravel	11	5.13	121.00	140.00
	11	Surface Casing (if app Steel	olicable) Wel Plas	ll Casing/Liner
	11	Size OD :		Size OD: 4.50 in
	11	Wall Thickness :		all Thickness: 0.237 in
	1 1	Bottom at :	121.00 ft	Top at : 0.00 ft
	11			Bottom at : 121.00 ft
	11	Perforations		
		From (ft) To (ft)	Diameter or Sk Slot Width(in)	ot Length Hole or Slot (in) Interval(in)
		Perforated by Unk	nown	
	11	Annular Seal		
	<b>1</b> 1	Placed from	ft to	<u>ft</u>
	11	Amount		
	1	Other Seals Type		At (ft)
	11	Driven		80.00
	- 11	Driven		121.00
		Screen Type		
		Size OD :		
		From (ft)	To (ft)	Slot Size (in)
		Attachment		<del></del>
	[ ]	Top Fittings	Bo	ottom Fittings
		Pack	_	
	11	Type Unknown		rain Size
		Amount	Unknown	
	1			
Contractor Certification				
Name of Journeyman responsible for drilling/construction of well		Certification I	No	

RENE ARTS

Company Name RENE ARTS WATERWELL LTD.

VC7442

Copy of Well report provided to owner

Date approval holder signed 1999/06/27



View in Metric Export to Excel

GIC Well ID GoA Well Tag No. **Drilling Company Well ID**  1630086

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** 2007/09/19 Well Identification and Location Measurement in Imperial Postal Code Owner Name Address Province Country Town PIBROCH HUTTERITE COLONY P.O. BOX 5330 ALBERTA WESTLOCK CA T7P 2P5 TWP 1/4 or LSD SEC RGE W of MER Lot Block Plan Additional Description Location NW 26 28 **61** GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 54.308600 Longitude -113.844000 Elevation ft from How Location Obtained How Elevation Obtained ft from Not Verified **Not Obtained** Additional Information Measurement in Imperial Distance From Top of Casing to Ground Level 30.00 in Is Artesian Flow Yes Is Flow Control Installed 2.00 igpm Rate Describe Recommended Pump Rate igpm Pump Installed Recommended Pump Intake Depth (From TOC) ft H.P. Туре Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth ft Well Disinfected Upon Completion Depth ft Geophysical Log Taken Gas Remedial Action Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well LOCATION NOT PROVIDED BY DRILLER. LEGAL ASSIGNED BY GIC DEC. 2008 AS PER OTHER WELLS IN SAME AREA. Yield Test Taken From Ground Level Measurement in Imperial Depth to water level Test Date Start Time Static Water Level Pumping (ft) **Elansed Time** 1999/06/27 12:00 AM 0.00 ft Recovery (ft) Minutes:Sec Method of Water Removal Type Unknown Removal Rate igpm Depth Withdrawn From ft If water removal period was < 2 hours, explain why Water Diverted for Drilling Amount Taken Water Source Diversion Date & Time ig

**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 ONI	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						
27	Tymkow	NW 34 61 26 WY						
3)	Dale	NE 30 61 26 w4						
	The second second							

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		

<sup>\*</sup> 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)

<sup>\*\*</sup> 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)

<sup>\*\*\*</sup> Brown, dark brown, black, grey wooded, or irrigated



# spreading lands





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

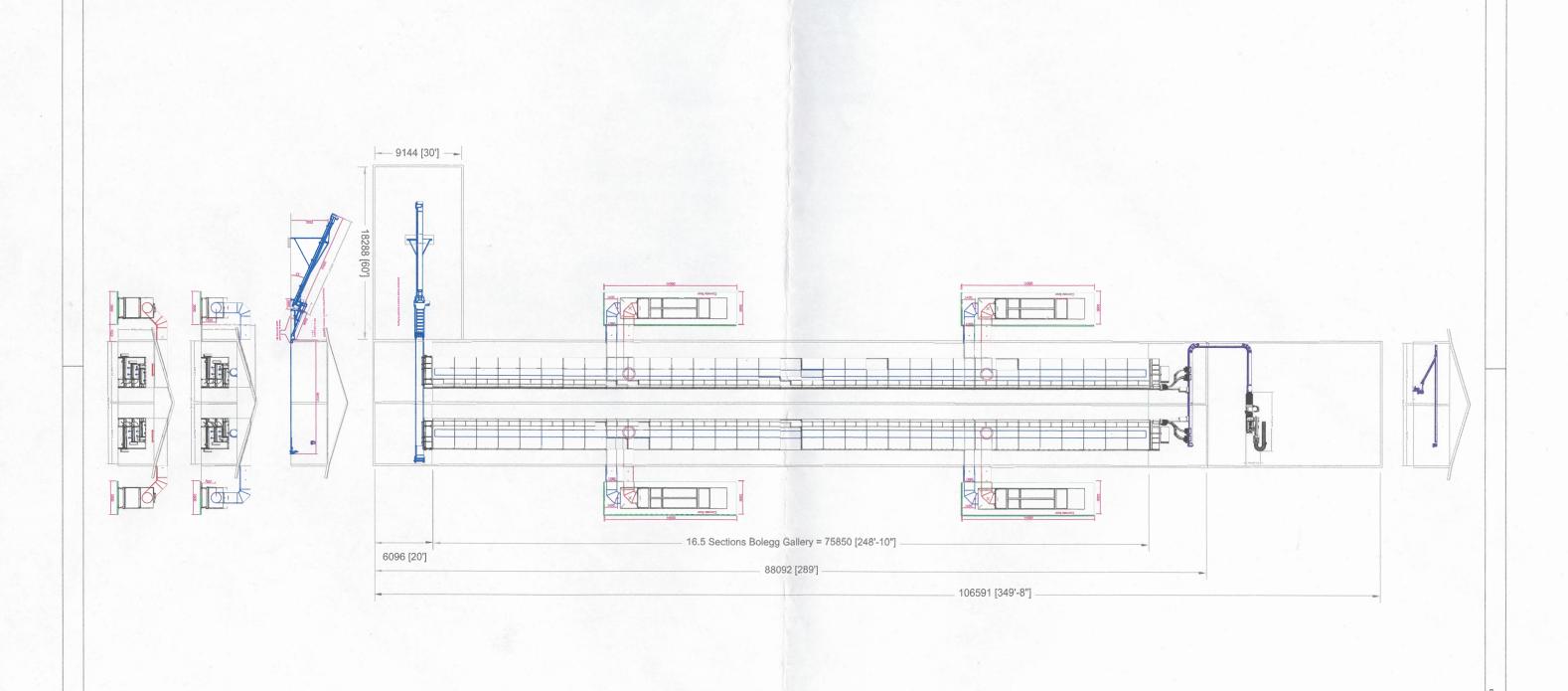
concre	te liner)		1	
cility	description / name (a	s indicated on site plan)	1. Layer bar	n
			2. Manure pa	d
nure	storage capacity	100		
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
	140	30	0	
	18	10	0	
			TOTAL CAPACITY	
		neaby 1	runoff.	
	rotection be how the physical integ	grity of the liner will be mair	ntained	
	Mon	itor for	cracks fix	as needed.
×			NRCB USE ONLY	



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	Method of sulphate protection:				
111					
<u> </u>	150				
Concrete strength	rete strength Concrete reinforcement size and spacing				
26 221	V-11 01				
25 MPA	18 0/6				
Concrete requirements can be found in Technical Guideline A Guideline minimums:	Agdex 096-93 NRCB USE ONLY	1			
Solid manure: 25MPa (D)	Requirer	ments met:	☐ YES ☐ NO		
Solid manure (wet): 30MPa (C) Method of sulphate protection:	Conditio	n required:	☐ YES ☐ NO		
Type 50 or Type 10 with fly ash or equivalent	Report a	ttached:	☐ YES ☐ NO		
		<del></del>			
Additional information (attach as required)					
NRCB USE ONLY					
Nine month manure storage volume requirements met $\ \square$	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 ye	es, please explain why.				



Quote nr.: VEN2401276-1-2



Application BA25010 Page 34 of 34 Drw.nr.: Pibroch Colony 24-05-31