

BA23011	NE 28-61-27 W4M	
nit is an offence and is subject to enf	orcement action, including	
	knowledge that the information	
Signature		
Reint Boelman		
Print name		
q operation facilities and their dimension	s. Indicate whether any of the	
	Dimensions (m) (length, width, and depth)	
	(length, witth, and depth)	
	44x36	
operation facilities and their dimensions		
	MINCE USE ONE	
50x50x4		
108x23		
22x25		
	Reint Boelman Print name g operation facilities and their dimension (attach additional pages if needed) operation facilities and their dimensions Dimensions (n (length, width, and 50x50x4 108x23	



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
dry cow corrals	70x63	
close up corral	50x21	
heifer shed	17x21	
heifer corrals	70x20	
		HE WAS TO SERVE OF
		20
		Text
		为避 为
		(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
**		
		**
		W 100 100 100 100 100 100 100 100 100 10
		39 495

Last updated: 31 Mar 2020		Page of
	NRCB USE ONLY	



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

ne old calf barn will be dismantled and the new b	uilding will be using up	some of that space left by the	e old barn
	- it is a summary of the		
		F-II - £0000	
onstruction completion date for proposed facili	ties weather permitting	Fall of 2026	AT SHEET H
dditional information			
Livestock numbers: Complete only if livestock num	bers are different from wh	at was identified in the Part 1 a	pplication. Note:
livestock numbers increase in your Part 2 application,	bers are different from wh , a new Part 1 application i	at was identified in the Part 1 a must be submitted which may r	pplication. Note: esult in a loss of
Livestock numbers: Complete only if livestock num livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type	bers are different from wh , a new Part 1 application i	must be submitted which may r	pplication. Note: esult in a loss of
livestock numbers increase in your Part 2 application,	bers are different from wh , a new Part 1 application i Permitted number	at was identified in the Part 1 a must be submitted which may reproposed increase or decrease in number (if applicable)	pplication. Note: esult in a loss of Total
livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	, a new Part 1 application i	Proposed increase or decrease in number	esult in a loss of
livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation) milking cows plus associated dries and	Permitted number	Proposed increase or decrease in number (if applicable)	esult in a loss of Total
livestock numbers increase in your Part 2 application, priority 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 (if applicable)	esult in a loss of Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation) nilking cows plus associated dries and	Permitted number	Proposed increase or decrease in number (if applicable)	esult in a loss of Total
livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation) milking cows plus associated dries and	Permitted number	Proposed increase or decrease in number (if applicable)	esult in a loss of Total
ivestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS). Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation) nilking cows plus associated dries and	Permitted number	Proposed increase or decrease in number (if applicable)	esult in a loss of Total

	10 1(2,14)	
st updated: 31 Mar 2020		Page of



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 Parks (AEP) for a confined feeding operation (CFO)

Date and sign one of the following four options

		day of	, 20	
1	u tiii5			Signature of Applicant or Agent
OPTI	ON 2: Pro	cessing the AOP	A permit and Water Act lice	ence separately
1.	I (we) ack		CFO will need a new water lice	ence from AEP under the Water Act for the development or activity
2.	[uest that the NRCE		independently of AEP's processing of the CFO's application for a
3.	In making	this request, I (we		application is granted by the NRCB, the NRCB's decision will not be gibility for a water licence under the <i>Water Act</i> .
				ulate the CFO with livestock pursuant to an AOPA permit in the
				s consideration of whether to grant the Water Act licence application
	application	is denied or if the ired to depopulate	operation of the CFO is other	populating will be at the CFO's sole risk if the Water Act licence wise deemed to be in violation of the Water Act. This risk includes her construction, or to remove "works" or "undertakings" (as define
6.	AS RELEV Bow, Oldm	ANT: I (we) acknowledge	katchewan River Basin Water	d in the South Saskatchewan River Basin and that, pursuant to the Allocation Order [Alta. Reg. 171/2007], this basin is currently closed
Signe	d this	_ day of	, 20	
				Signature of Applicant or Agent
Signe	d this 19	_ day of	per, 20 <mark>23_</mark> .	Signature of Applicant or Agent
OPTI	ON 4: Un	certain if Water	Act licence is needed; ackno	owledgement of risk (for existing CFOs only)
		e, I (we) do not kr oposed in this AOP		ce is needed from AEP under the Water Act for the development or
	processing	of the CFO's appli	ication for a water licence.	ne NRCB process the AOPA application independently of AEP's
	considered	by AEP as improv	ing or enhancing the CFO's eli	application is granted by the NRCB, the NRCB's decision will not be gibility for a water licence under the <i>Water Act</i> .
	in the abse	ence of a Water Ac	t licence will <u>not</u> be relevant to	ulate the CFO with additional livestock pursuant to an AOPA permit o AEP's consideration of whether to grant my Water Act licence
		, if a new water lic		
	application	is denied or if the	e operation of the CFO is other	increase will be at the CFO's sole risk if the Water Act licence wise deemed to be in violation of the Water Act. This risk includes
	being requ in the <i>Wat</i>	The state of the s	the CFO and/or to cease furth	er construction, or to remove "works" or "undertakings" (as define
		ANT. I (wa) ackno	owledge that the CFO is located	d in the South Saskatchewan River Basin and that, pursuant to the
6.	AS RELEV Bow, Oldm	[2015] [1 1] [1] [1] [1] [1] [1] [1]		Allocation Order [Alta. Reg. 171/2007], this basin is currently closed

NRCB USE ONLY





August 22, 2020

Soil Landscape Polygons

Scale 1:36,112 1 inch = 3009.33 feet 1 cm = 361.12 metres Map centre at latitude +54.311°N and longitude -113.985°E Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Alberta Agriculture and Forestry and Agriculture and Agri-Food Canada

Government of Alberta, Alberta Open Government Licence







December 19, 2023

Soil Landscape Polygons

Scale 1:4,514 1 inch = 376.17 feet 1 cm = 45.14 metres Map centre at latitude +54.307°N and longitude -113.979°E Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User

Alberta Agriculture and Forestry and Agriculture and Agri-Food

Government of Alberta, Alberta Open Government Licence





December 19, 2023

Soil Landscape Polygons

Scale 1:4,514 1 inch = 376.17 feet 1 cm = 45.14 metres Map centre at latitude +54.307°N and longitude -113.979°E Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Source: Esri, Maxar, Earthstar Geographics, and the GIS User

Community
Alberta Agriculture and Forestry and Agriculture and Agri-Food
Canada

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

GENERAL	ENVIRONMENTAL	THEODMATTON
GENERAL	EMATICALMENTAL	INCORMALION

	ection for the worst case of the existing facility whotion / name (as indicated on site plan)	ich is the closest to water bodies or water wells and for each of the proposed facilities)
Existing:	dairy barn	Proposed 1: new barns for replacements

Fiopose	Froposeu 5:						
Facility and environmental risk information		Facilities				NRO	CB USE ONLY
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the height 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	
in in	How many springs are within 100 m of the manure storage facility or manure collection area?	none	none			☐ 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?	2 (40m,50m)	2 (40m,50 m)			YES NO YES with exemption	
S ri	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	339 m	319 m			☐ YES ☐ NO ☐ YES with exemption	
Groundwater	What is the depth to the water table?		5m			YES NO YES with exemption	
Ground	What is the depth to the groundwater resource/aquifer you draw water from?	40/67/53	40/67/53			☐ YES ☐ NO ☐ YES with exemption	

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

Last updated: 31 Mar 2020		Page of
	NRCB USE ONLY	



Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID 1630100

Measurement in Imperial

GoA Well Tag No. Drilling Company Well ID

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. Date Report Received 2010/11/29 Well Identification and Location Measurement in Imperial Owner Name Address Country Postal Code YOKE FARM LTD. P.O. BOX 5479 WESTLOCK ALBERTA CANADA T7P 2P5 TWP Block Additional Description Location 1/4 or LSD SEC RGE W of MER Plan NE 28 27 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Quarter Longitude -113.981790 Latitude 54.308718 ft ft from How Elevation Obtained How Location Obtained 300.00 ft from West Not Obtained Not Verified

Yield Test Summary

Drilling Information Method of Drilling Combination Proposed Well Use

Type of Work New Well

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
20.00		Light Brown Clay
60.00		Gray Soft Clay
80.00		Gray Clay
100.00		Gray Soft Clay
125.00		Gray Clay
135.00		Brown Fine Grained Sand
165.00		Gray Soft Clay
175.00		Brown Fine Grained Sand
215.00		Gray Soft Clay
220.00	Yes	Coarse Grained Sand & Gravel
225.00		Gray Soft Clay
230.00	Yes	Coarse Grained Sand & Gravel
238.00		Sandy Shale
250.00		Gray Shale
260.00	Yes	Sandy Shale
275.00		Greenish Gray Shale
280.00	Yes	Sandy Shale & Sandstone
311.00	Yes	Brown Sandstone
335.00	Yes	Sandy Shale
380.00	Yes	Sandstone

Test Date	mp Rate Water Removal Rat	e (igpm)	Static Water Level (ft)	
2010/03/03	6.00		0.00	
Well Completion		iekojn trojenicie	Measurement in Im	
Total Depth Drilled			End Date	
380.00 ft	380.00 ft	2010/02/23	2010/03/01	
Borehole				
Diameter (in) Fr	om (ft)	To (ft)	
6.25		0.00	240.00	
5.13	TOOKS.	240.00	380.00	
Surface Casing (in Steel		Well Casing/I		
Size OD :	5.56 in	Size (0D: 4.50 in 988 : 0.237 in	
Wall Thickness:	0.188 in	Wall Thickne	ess: 0.237 in	
Bottom at :	240.00 ft	Top	at: 12.00 ft	
			at: 380.00 ft	
Perforations				
From (ft) To	Diameter or	Slot Length	Hole or Slot Interval(in)	
	0.020	1) (111)	4.00	
	ntonite Slurry ft to			
T	ype		At (ft)	
Dr	iven		240.00	
Screen Type				
Size OD:				
From (ft)	From (ft)		Slot Size (in)	
Attachment				
			ngs	
Pack				
Type Artificial		Grain Size	10-20	
Amount 140	00.00 Pounds	-		

Contrac	tor Cer	tifica	tion
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Name of Journeyman responsible for drilling/construction of well

RENE ARTS

RENE ARTS WATERWELL LTD.

Certification No

VC7442

Copy of Well report provided to owner

Date approval holder signed 2010/03/03



Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID
GoA Well Tag No.

1630100

GOWN ID

Mall Identificati

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 2010/11/29

TWP 61 uarter	RGE 27	W of MER 4 GPS Coordin	Lot	Block	Plan	Additiona	al Description	
		GPS Coordin						
est					35			
est		Latitude 5	Fig. 121	Longitu	de113.98	31790	Elevation	ft
100000		How Location	Obtained				How Elevation (Obtained
		Not Verified					Not Obtained	
								Measurement in In
und Level _		24.00 in	/s	Flow Contro	ol Installed	Yes		
0 igpm						- DAIRY USE	ES ENOUGH WA	
		6.00 igpm	Pump I	nstalled Ye				40.00 ft
(From TOC)		240.00 ft						H.P. 0.75
								Rating)
4000 ppm T	DS)	Depth		ft	Well Disinfe	ected Upon C		
				ft				
	The state of the s							
			S	ample Colle	ected for Po	otability	Su	bmitted to ESRD
D DRILLING	ROPO	SED WELL USE	- DAIRY FAR	RM, ROCKS	6 @ 97' - 98	8' AND 118' -	119', 250' - 260)' = 1/2 GPM ALSO FINE
1 GPM ALS	O SAND, 3	311' - 335' = 1 GF	PM, 335' - 38	0' = 10+ GF	PM, DRIVE	N FROM 23	5' - 240', FRAC	SAND FROM 20' - 380',
OK DIVILLIN	G - ALSO I	DIVERTED 2000	GALLONS 2	010/02/27 7	.UUPIVI			
					Take			Measurement in In
	Static			Pumpi	na (ft)			Recovery (ft)
		0.00 It			()			recovery (re)
							0:00	104.17
							1:00	93.50
								94.25
6.00 igpm								76.08
CONTRACTOR OF THE PARTY OF THE			-					68.42
+0.00 It								62.25
an employee the four								56.67
s, explain wi	ny							51.58
								47.50
							9:00	43.50
							10:00	40.08
							12:00	34.08
							14:00	29.25
							16:00	24.38
							18:00	22.29
							20:00	19.63
							25:00	15.08
							30:00	12.08
							35:00	11.67
				94.	.50		40:00	11,46
							45:00	10.33
							50:00	
							60:00	
							75:00	
							90:00	
				104	.17		120:00	
	18 17							
	Amo	unt Taken				Diversion I	Date & Time	
-	JD DRILLING 1 GPM ALS OR DRILLIN	(From TOC) A4000 ppm TDS) Gas Yes JD DRILLING, PROPOS 1 GPM ALSO SAND, 3 OR DRILLING - ALSO I 6.00 igpm 40.00 ft rs, explain why	6.00 igpm	Go igpm (From TOC) Continue Continue	Column C	Column	Column C	Describe FLOW @ <.5 GPM, FLOW C

RENE ARTS WATERWELL LTD.

Company Name

Date approval holder signed

2010/03/03

Copy of Well report provided to owner



Albertan Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID GoA Well Tag No.

1630100

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.

SOWN ID							•			Date Report Received	2010/11/29
Well Ident	ification and L	ocation					Waldley's	The state of	10.85	Me	easurement in Imperial
Owner Nam YOKE FAR	STOTE CATE OF		Address P.O. BOX	5479		Town	TLOCK		Province ALBERT		Postal Code T7P 2P5
Location	1/4 or LSD NE	SEC 28	TWP 61	RGE 27	W of MER 4	Lot	Block	Plan	Additi	onal Description	1000
Measured I	from Boundary o	of Qu ft from	arter			4.308718	Longi	es (NAD 83 tude113.	*	Elevation	ft
	300.00	ft from We	est		How Location Not Verified	n Obtained				How Elevation Obtained Not Obtained	ed
TOWN OF	WESTLOCK			200	0.00 ig	9			2010/0	2/23 7:00 PM	

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 2010/03/03



bertan Water Well Drilling Report

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View in Metric Export to Excel

GIC Well ID GoA Well Tag No.

1630275

Drilling Company Well ID Date Report Received

2018/01/28

GOWN ID

Well Ident	ification and L	ocation				AND DESCRIPTION				Me	asurement in Imperia
Owner Nan YOKE FAR			Address P.O. BOX	5479		Town WEST	LOCK		Province ALBERTA	Country CANADA	Postal Code T7P 2P5
Location	1/4 or LSD 16	SEC 28	TWP 61	RGE 27	W of MER	Lot	Block	Plan	Additiona	al Description	718
Measured t	rom Boundary o	of ft from			GPS Coordin Latitude 5	ates in Dec 4.309139		es (NAD 83 tude113.9	V	Elevation	ft
		ft from			How Location Differential co		I - I - O D O	F 40		How Elevation Obtaine Not Obtained	d

Drilling Information Method of Drilling Combination Proposed Well Use Stock

Type of Work New Well

Formation Log		Measurement in Imperia
Depth from ground level (ft)	Water Bearing	Lithology Description
2.00		Topsoil
5.00		Black Clay
18.00		Light Brown Clay
25.00		Brown Sand
30.00		Gray Soft Clay
60.00		Gray See Comments Clay
74.00		Gray See Comments Clay
80.00		Gray Sandy Clay
92.00		Gray Soft Clay
100.00		Gray See Comments Clay
120.00		Gray Soft Clay & Rocks
130.00		Dry Clay & Silt
138.00		Gray Clay
170.00		White Clean Sand
175.00	Yes	Gray Sandy Clay
180.00		Gray Soft Clay

Recommende	ed Pump F	Rate		easurement in Imper
				atic Water Level (ft)
Well Compl	etion	i ene di como se	M	easurement in Imper
Salar Contraction of the Contraction of the Salar Sala		ished Well Depth		End Date
180.00 ft	16	5.00 ft	2017/10/05	2017/10/13
Borehole				
Diamet	er (in)	From	(ft)	To (ft)
7.8			00	125.00
5.3		125		180.00
Steel	Albert Allen Comments	olicable)		ner
Size	OD:	5.56 in	Size OL	4.50 in
Wall Thickn	ess:	0.188 in	Wall Thickness	0.237 in
Botton	n at :	135.00 ft	Тор а	t: 15.00 ft
	1		Bottom a	155.00 ft
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Placed from Amoun	n	ite Chips/Tablets 0.00 ft to 1050.00 Pounds	125.00 ft	
Other Seals	Туре			A+ (4-)
	Driven			At (ft) 135.00
	Driven			125.00
Screen Type Size		5.00 in		
From	(ft)	То		Slot Size (in)
		165	.00	0.010
155				
155 Attachn			D 11 E	
155 Attachn	ngs Coup		Bottom Fitting:	S Washdown
155 Attachn Top Fitti Pack	ngs Coup	ler		
155 Attachn Top Fitti	ngs Coup	ler	Bottom Fitting:	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RENE ARTS

RENE ARTS WATERWELL LTD.

Certification No.

VC7442

Copy of Well report provided to owner Yes

Date approval holder signed 2017/10/13



Albertan Water Well Drilling Report

View in Metric Export to Excel

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

1630275

COL	A	IA	IF

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.

Well Ident	tification and I	ocation									Mea	surement in Impe
Owner Nam YOKE FAR			Address P.O. BOX	5479			Town WESTLOCK		Province ALBERTA	Coun		Postal Code T7P 2P5
Location	1/4 or LSD 16	SEC 28	TWP 61	RGE 27	W of MER 4	29		Plan		al Description		
Measured i	of ft from ft from	700		GPS Coordinates in Decimal Degrees (NAD 83) Latitude 54.309139 Longitude -113.979594 How Location Obtained Differential corrected handheld GPS 5-10m					Elevation How Elevation Not Obtained		ft	
Additional	Information			4131615	win it is	A STATE					Meas	surement in Impe
	From Top of Cas	sing to Grou	ind Level _		30.00 in	-	Is Flow Con	trol Installed	Yes			
	Rate	3.00) igpm					Describe	WELL WILL	TER FLOWING FLOW INTO C V NECESSARY	ISTERN V	AL INSTALLED, VITH NO
	nded Pump Rai						Pump Installed			Depth	ft	
Recomme	nded Pump Inta	ike Depth (F	From TOC)		ft	_	Туре		Make			
										Model (Outpu		
							ft					
	Encounter Salin			Gas	De	pth			Submitted to		41.7	o ESRD
Addition LITHOLOG RINGS.	nal Comments o	n Well 5: 30-60'- G	REY CLAY	WITH STO	NES, 60-74'-	SOFT G	Sample Co	ollected for i	Submitted to Potability GS, 92-100'- H	SHARD GREY CL	ubmitted t	ROCKS & MUD
Addition LITHOLOG RINGS.	al Comments o GY COMMENTS OTES: AIR TES	<i>n Well</i> S: 30-60'- G STED @ OV	REY CLAY	WITH STO	NES, 60-74'- LL WILL FLO	SOFT G	Sample Co	ollected for I	Submitted to Potability GS, 92-100'- H WELL BU	STER FLOWIN	ubmitted t	
Addition LITHOLOG RINGS. OTHER NO WELL FLO	nal Comments of GY COMMENTS OTES: AIR TES	<i>n Well</i> S: 30-60'- G STED @ OV	REY CLAY	WITH STO	NES, 60-74'- LL WILL FLO	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD
Addition LITHOLOG RINGS. OTHER NO WELL FLO	nal Comments of GY COMMENTS OTES: AIR TES	<i>n Well</i> S: 30-60'- G STED @ OV	REY CLAY ER 20 IMP VITH PITLE	WITH STO GPM, WEI	NES, 60-74'- LL WILL FLO	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD
Addition LITHOLOG RINGS. OTHER NO WELL FLO Yield Test Test Date	al Comments of GY COMMENTS OTES: AIR TES OW WILL BE D	n Well S: 30-60'- G STED @ OV IRECTED V Start Time	REY CLAY VER 20 IMP VITH PITLE	WITH STO GPM, WEI	ONES, 60-74'- LE WILL FLOO CISTERN WIT	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD
Addition LITHOLOG RINGS. OTHER NO WELL FLO Yield Test Test Date	of Water Remover Removal Rate	n Well S: 30-60'- G STED @ OV IRECTED V Start Time	REY CLAY VER 20 IMP VITH PITLE	WITH STO GPM, WEI	ONES, 60-74'- LE WILL FLOO CISTERN WIT	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD
Addition LITHOLOG RINGS. OTHER NO WELL FLO Yield Test Test Date Method of	al Comments of GY COMMENTS OTES: AIR TES OW WILL BE D	n Well S: 30-60'- G STED @ OV IRECTED V Start Time	REY CLAY VER 20 IMP VITH PITLE igpm ft	WITH STO GPM, WEL SS INTO C	ONES, 60-74'- LE WILL FLOO CISTERN WIT	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD
Addition LITHOLOG RINGS. OTHER NO WELL FLO Yield Test Test Date Method of	of Water Remover Type Removal Rate Photographic Removal Rate Remover Rate Remover Rate Rate Rate Rate Rate Rate Rate Rate	n Well S: 30-60'- G STED @ OV IRECTED V Start Time al	REY CLAY VER 20 IMP VITH PITLE igpm ft	WITH STO GPM, WEL SS INTO C	ONES, 60-74'- LE WILL FLOO CISTERN WIT	SOFT G	Sample Co	H MUD RING	Submitted to Potability GS, 92-100'- H WELL BU A LATER DA	SHARD GREY CL STER FLOWIN	AY WITH	ROCKS & MUD

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 Yes

Date approval holder signed 2017/10/13

Government Water Well Drilling Report

View in Metric

of Alberta
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 243684 GoA Well Tag No.
Date Report Received

1. Well Identific Owner Name BOELMAN, R		cation		ress ROCH		Town		Prov	rince	Measurement in Imperia Postal Code TOC 1V0
Location	1/4 or LSD NE	SEC 28	TWP 061	RGE 27	W of MER Lo		Plan	Additiona	al Description	
Measured from		from			GPS Coordinates in L Latitude 54.30872 How Location Obtain Map	0 Longitude		Ho	evation 2 ow Elevation Obta stimated	
2. Drilling Infor Method of Dri Unknown				oe of Work emistry				Proposed We	ell Use	
	Water		Lithology	Measu Description	rement in Imperial	4. Well Comp Total Depth E 0.00 ft Borehole		ished Well De _l	oth Start Date	Measurement in Imperia End Date 1980/05/21
level (it)	Bearing		Littlology	Description		Diamet 0.0			om (ft) 0.00	To (ft) 0.00
	-					Surface Casi	ng (if appli	cable)	Well Casing/Li	ner
						Size	OD:	0.00 in	Size C	DD:0.00 in
						Wall Thickn			Wall Thickne	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n at :			at: 0.00 ft
									Bottom	William Control of the Control of th
						Perforations		To (61)	Diameter (i	a) Interval (in)
						From (ft	, ,	To (ft)	Diameter (i	n) Interval (in)
						Perforated by	,			
								0.00 ft to _	0.00 ft	
						1	Type			At (ft)
						Screen Type		0.00 in	- January - Land	
						production and the same beautiful and	(ft)		To (ft)	Slot Size (in)
									Bottom Fittin	gs
						Pack Type			. Grain Size _	

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

of Alberta

Government Water Well Drilling Report

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GIC Well ID GoA Well Tag No. Date Report Received 243684

Well Identificati Owner Name	on and Lo	cation	44	42/5		CARDA PA	T.			Measurement in Imperial
BOELMAN, R				ress ROCH			Town		Province	Postal Code T0C 1V0
Location 1/ NI	4 or LSD E	SEC 28	TWP 061	RGE 27	W of MER 4	Lot	Block	Plan A	Additional Descriptio	n
Measured from Bo	ft f	from from			GPS Coordinate Latitude 54.: How Location C	308720	The second second	s (NAD 83) ude113.981807	Elevation How Elevation Estimated	2006.00 ft n Obtained
Additional Informa	ition									Measurement in Imperial
Distance From To Is Artesian Flow Rate					in	Is F	Flow Contr	ol Installed		
Recommended P	and the second				igpm				Depth	ft -
Recommended P	ump Intake	Depth (Fro	om TOC)		ft	Type		Model	¥ 1	Н.Р.
Did you Encour	nter Saline V	Vater (>40		s			ft	Geophysical Subm	itted to GIC	
Additional Com	nments on V	Vell					Sa	mple Collected for	Potability	Result Attached
5. Yield Test	THE TRAINS			15141			M	leasurement in Ir	nperial	Taken From Ground Level
Test Date	S	tart Time		Static	Water Level ft					
Method of Water	Туре		302							
Depth Withdrawi	al Rate n From									
If water removal p	period was <	2 hours, e	explain why			T				
6. Water Diverted	for Drilling								Profession 2	
Water Source				Amo	unt Taken ig			Dive	rsion Date & Time	

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



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 ON	LY	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Rick and Sandi Johnston	SW 27-61-27-W4	1090					21.00
Arnold Schlayer	NE 21-61-27-W4	1165				ed 12 acres	e die s
Desi Graf	SW 34-61-27-W4	600					
Rick and Matti Graf	NW 34-67-27-W4	1340					
John and Janice Borst	NE 33-61-27-W4	1850					

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

	man and the second seco			NRCB US	SE ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Reint and Maaike Boelman	NE 28-61-27-W4	53	black		
Reint and Maaike Boelman	SE 33-61-27-W4	59	black		
Reint and Maaike Boelman	SW 33-61-27-W4	64	black		
Reint and Maaike Boelman	NW 28-61-27-W4	64	black		
Reint and Kirstin Boelman	SE 28-61-27-W4	62	black		
			Total		

^{*} 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)

Last updated: 31 Mar 2020	Page of	
NRCB USE ONLY		

^{**} 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







August 22, 2020

Soil Landscape Polygons

Scale 1:36,112 1 inch = 3009.33 feet 1 cm = 361.12 metres Map centre at latitude +54.311°N and longitude -114.003°E Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

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

	te a copy of this section f ete liner)	or EACH barn, feedlot, and	storage facility for solid manure, co	omposting materials, or compost w
acility	description / name (as	s indicated on site plan)	1. barn	
			2. see attached plan for detail	ls
lanure	storage capacity			
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³
1.	44	36	0	
2.		MEN TO VE		
			TOTAL CAPACITY	
		<u> 2. 1 3 y</u>		
	rotection			
		rity of the liner will be main	tained	
nonito	or for breaking and crac	king, repair if needed		
			NRCB USE ONLY	
			INCO OSE SILE	



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: type 50 Concrete strength Concrete reinforcement size and spacing 25 mpa 12" spacing

Concrete requirements can be found in Technical Guideline Agdex 096-93 NRCB USE ONLY Guideline minimums: ☐ YES ☐ NO Requirements met: Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C) ☐ YES ☐ NO Condition required: Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent ☐ YES ☐ NO Report attached: Additional information (attach as required) NRCB USE ONLY Nine month manure storage volume requirements met $\ \square$ YES ☐ YES With STMS ☐ NO ☐ YES ☐ NO Depth to water table: Requirements met: 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: \square YES \square NO If yes, please explain why.



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

LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner

(complete a copy of this section for **EACH** proposed in-barn liquid manure storage facility with a concrete liner)

Facility	descri	ption	/ name	(as	indicated	on	site	plan
		P		(40	marcacca	0,,	DILC	Piui

1. receiving pit

2. north alley

3. south alley

Manure storage capacity (use one row in the table for EACH in-barn storage. Attach additional pages if you require more rows)

	Length (m)	Width (m)	Total depth (m)	Depth below ground level (m)	NRCB USE ONLY Calculated storage capacity (m³)
1.	4	4	5	5	
2.	36	3	0	0	
3.	16	3	0	0	
	- FIGURE STATE	HITT		TOTAL CAPACITY	

Concrete liner details

	Concrete thickness		Method of sulp	phate protection
Scrape alleys or inslatted portions of	15 cm (6")		type 50	
barn floors (if applicable)	Concrete strength 32mpa			orcement size and spacing on 12" spacing
	Concrete thickness 6"		Method of sulp type 50	phate protection
In-barn manure pit				
floors	Concrete strength 32 mpa		The second secon	orcement size and spacing on 12 " spacing
	Concrete thickness 8"		Method of sulp type 50	hate protection
In-barn manure pit walls	Concrete strength 32 mpa	Horizontal reinf and spacing 10 mm, 24"	orcement size	Vertical reinforcement size and spacing 10 mm, 16"



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

Describe how the joints at the junction of the pit walls, pit floors ar	nd any other joints will be sealed	
all poured in place, no joints		
Describe sealing practices for piping, etc. that penetrates the liner		
piping goes out the top and doesn't penetrate the liner		
sipling goes out the top and doesn't penetrate the liner		
Concrete requirements can be found in Technical Guideline Agdex 096-93	NRCB USE ONLY	
Guideline minimums: Solid manure: 25MPa (D)	Requirements met:	☐ YES ☐ NO
Solid manure (wet): 30MPa (C) Liquid manure: 32MPa (B)	Condition required:	☐ YES ☐ NO
Category A is required to be engineered Method of sulphate protection:	condition required.	LI ILS LI NO
Type 50 or Type 10 with fly ash or equivalent Additional information		
uditional information		
NRCB USE ONLY		
Liquid manure storage volume calculator attached: \square YES \square NO		
	Requirements met:	☐ YES ☐ NO
Liquid manure storage volume calculator attached: YES NO Depth to water table:		
Liquid manure storage volume calculator attached: \square YES \square NO	Requirements met: Requirements met:	☐ YES ☐ NO
Liquid manure storage volume calculator attached: YES NO Depth to water table:		
Liquid manure storage volume calculator attached: YES NO Depth to water table:		
Liquid manure storage volume calculator attached: YES NO Depth to water table:		
Liquid manure storage volume calculator attached: Depth to water table: Depth to uppermost groundwater resource:		
Liquid manure storage volume calculator attached: YES NO Depth to water table:		
Liquid manure storage volume calculator attached: Depth to water table: Depth to uppermost groundwater resource:		
Liquid manure storage volume calculator attached:		
Liquid manure storage volume calculator attached:	Requirements met:	
Liquid manure storage volume calculator attached:		
Liquid manure storage volume calculator attached:	Requirements met:	
Liquid manure storage volume calculator attached:	Requirements met:	
Liquid manure storage volume calculator attached:	Requirements met:	
Liquid manure storage volume calculator attached:	Requirements met:	
Liquid manure storage volume calculator attached:	Requirements met:	

