

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 numbe		Legal land description
	rization RA04009 D		w al-33-23-4
Amendment			
APPLICATION DISCLOSURE			
This information is collected under the authority provisions of the <i>Freedom of Information and P</i> written request that certain sections remain pri	rotection of Privacy Act. This inform	ices Act (AOPA), lation is public ur	, and is subject to the nless the NRCB grants a
Any construction prior to obtaining an NRC prosecution.	B permit is an offence and is su	bject to enforc	ement action, including
I, the applicant, or applicant's agent, have read provided in this application is true to the best o	and understand the statements ab f my knowledge.	ove, and I ackno	owledge that the information
Apr. 10/19.		Kurl	*
Date of signing	Signature		1
Knievel Farms N	td. De	beiek	Cnievel.
Corporate name <mark>(if applicable)</mark>	Print name	_	
GENERAL INFORMATION REQUIREMEN	NTS		
Proposed facilities. List all proposed confine		eir measuremen	nts, including if it is an addition
a an existing facility (attach additional pages i	f needed)		
Proposed manure collection areas & manure s	torage facilities	Dime	ensions (m)
NIA.			
		55	
Existing facilities. List ALL existing confined	feeding operation facilities and the	ir measurements	s (use additional pages If nee
Existing barns, manure collection areas & man	ure storage facility	Dimensions (m)	NRCB USE ONLY
Layer Barn #1		12.2m	X38.1m.
Layer Barn #2		2.2mX	
Pullet Barn.		11m X 3	No Section 1997
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IT A	new racility	v is reniacin	o an oid tacility.	. What will be done	with the old facility	/ and when/
_, _		y .o . op:adiii	ani ole realistal	***************************************	. With the old racille	MILICA TAILCILL

N/A

Proposed construction completion date:
Additional information:
the or going water well testing condition under registration RA 04009A to be deleted from the permit.

Livestock Numbers: (include all livestock)

Note: Livestock numbers in this table will be used when processing the application)

Livestock type/ category

Existing number

Change in number

(if applicable)

Chicken layers + Assoc.

7600

7600

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1 Water well

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

141619

i ne anilier 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.	GoA Well Tag No. Drilling Company Well ID Date Report Received 1949/08/04
Well Identification and Location	Measurement in Metric
Owner Name Address Town Province KNIEVEL, A. TROCHU	Country Postal Code
SW 21 33 23 4	nal Description
Measured from Boundary of m from m from m from m from Map GPS Coordinates in Decimal Degrees (NAD 83) Latitude 51.841928 Longitude -113.211501 How Location Obtained Map	Elevation 867.16 m How Elevation Obtained Estimated
Drilling Information Method of Drilling Drilled Proposed Well Use Type of Work Federal Well Survey	
Domestic & Stock	
Promation Log Measurement in Metric Yield Test Summary	Measurement in Metric 0.00 L/min
Well Completion Total Depth Drilled Finished Well 18.29 m Borehole Diameter (cm) 0.00 Surface Casing (if applicable) Unknown Size OD: 15.24 cm Wall Thickness: 0.000 cm Bottom at: 0.00 m Perforations Perforated by Annular Seal Placed from 0.00 m Amount Other Seals Type	From (m) To (m) 0.00 18.29 Well Casing/Liner 1 Size OD : 0.00 cm 1 Wall Thickness : 0.000 cm Top at : 0.00 m Bottom at : 0.00 m From the control of the c
Screen Type Size OD: 0.00 cm From (m) Attachment Top Fittings Pack Type Amount	To (m) Slot Size (cm)
Contractor Certification	

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Copy of Well report provided to owner Date approval holder signed

UNKNOWN NA DRILLER Company Name

UNKNOWN DRILLER

Name of Journeyman responsible for drilling/construction of well



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

141619

GOWN ID

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Date Report Received 1949/08/04 Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code KNIEVEL, A. TROCHU Location 1/4 or LSD TWP RGE SEC W of MER Plan Additional Description Lot SW 23 21 33 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 51.841928 Longitude -113.211501 867.16 m How Location Obtained How Elevation Obtained m from Estimated Мар Additional Information Measurement in Metric Distance From Top of Casing to Ground Level Is Artesian Flow Is Flow Control Installed Rate L/min Describe 0.00 L/min Recommended Pump Rate Pump Installed Yes Depth Recommended Pump Intake Depth (From TOC) 0.00 m Type FORCE Model (Output Rating) Did you Encounter Saline Water (>4000 ppm TDS) Depth Well Disinfected Upon Completion Depth m Geophysical Log Taken Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well OWNER REPORTS CLEAR, MED-HARD WATER Taken From Ground Level Yield Test Measurement in Metric Depth to water level Test Date Start Time Static Water Level Elapsed Time Pumping (m) 1949/08/04 12:00 AM 5.49 m Recovery (m) Minutes:Sec Method of Water Removal Type Pump Removal Rate L∕min Depth Withdrawn From 0.00 m If water removal period was < 2 hours, explain why

Water Diverted for Drilling			
Water Source	Amount Taken L	Diversion Date & Time	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER Company Name

UNKNOWN DRILLER

Certification No

Copy of Well report provided to owner Date approval holder signed





Alberta Water Well Drilling Report

Barn original

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View in ImperialExport to ExcelGIC Well ID141621

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

1982/01/18

GOWN ID		d	ccuracy. The ii	normation on	triis report will be r	etailleu iii a p	ublic databas	e.		Date Report Received	1982/01/18
Well Identification	on and L	ocation									Measurement in Metric
Owner Name KNIEVEL, PHILIP		19	Address P.O. BOX	126 TROCH	łU	Town			Province	Country	Postal Code
Location 1/4 SW	or LSD	SEC 21	7WP 33	RGE 23	W of MER	Lot	Block	Plan	Addition	nal Description	
Measured from B		f m from m from			GPS Coordin Latitude 5 How Location Map	1.834654	_	es (NAD 83 ₎ tude <u>-113.2</u>		Elevation How Elevation Obtained	m

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

Formation Log		Measurement in Metric	
Depth from ground level (m)	Water Bearing	Lithology Description	
8.23		Brown Clay & Rocks	
9.45		Blue Clay & Rocks	
17.98		Brown Soft Sandstone	
18.29		Hard Formation	
21.95		Brown Sandstone	
22.25		Hard Formation	
36.58		Gray Sandstone	

Test Date Wate	Rate 45 er Removal Rate		Stati	c Water Level (m)	
1981/11/25		(2,11111)	12.80		
Well Completion	00,127		M	easurement in I	
Total Depth Drilled Fi	nished Well Dep	th Start Da			
36.58 m		1981/11	/23	1981/11/25	
Borehole					
Diameter (cm)	Fro	m (m)		To (m)	
0.00		0.00		36.58	
Surface Casing (if ap	plicable)	Well Casi	ng/Line	r	
Size OD :	0.00 cm	Si	ze OD :	12.70 cm	
Wall Thickness:	0.000 cm	Wall Thic	kness :	0.396 cm	
Bottom at	0.00 m			0.00 m	
		Bot	tom at :	32.31 m	
Perforations			*******		
From (m) To (m) 23.16 32.31	(cm)	Slot Leng		Hole or Slot Interval(cm) 76.20	
Perforated by Tor			te mentral market per men		
Annular Seal Puddle	1.01-				
Placed from		0.00 r			
Amount					
Other Seals					
Туре			Α	t (m)	
Screen Type	ar share the him an example shad and an example of share the emits.		and the second second second second second	umori em producio, per up como upago produce recon persona eq	
Size OD :	0.00 cm				
	To	o (m)		Slot Size (cm)	
Attachment					
Top Fittings			ittings		
Pack					
Туре		Grain Si	ze		

Contractor	Certification
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Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name PRAIRIE TO PINE

Certification No

Copy of Well report provided to owner Date approval holder signed



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GIC Well ID

141621

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

1982/01/18

Well Ident	tification and L	ocation	Service Mills	1 1 10 11	14-11/6			NEW EAR			Measurement in Metric
Owner Nar KNIEVEL,			Address P.O. BOX 1	26 TROCHU		Town			Province	Country	Postal Code
Location	1/4 or LSD SW	SEC 21	TWP 33	23 4						nal Description	
Measured t	from Boundary (of m from m from		La H	PS Coordinat atitude 51. ow Location (lap	834654	Longiti			Elevation How Elevation Ob Not Obtained	
Additional	Information		SAIN HEAD								Measurement in Metric
	From Top of Cas				cm	1.	s Flow Contr	rol Installed			
	Rate		L/min_						1		
	ended Pump Ra		(From TOC)		15.46 L/min 27.43 m	Pump Type	Installed		Make	Depth	H.P
										Model (Output F	Rating)
ORILLER Yield Test		D-HARD W					Sample Col	llected for F	cen From C		Measurement in Metric
Test Date 1981/11/2		Start Tin 12:00 AM		Static Wa	ter Level 12.80 m		Drawo	down (m)	1	Elapsed Time Minutes:Sec	Recovery (m)
Depth Wi	f Water Remov Type <u>I</u> Removal Rate thdrawn From moval period wa	Pump		ny .		-					
Water Div	erted for Drilli	ing									
Water Sou	rce			Amount	Taken L				Diversion	on Date & Time	

Contracto	or Cer	tificat	ion
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Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name PRAIRIÉ TO PINE Certification No

Copy of Well report provided to owner

Date approval holder signed



Aberta Water Well Drilling Report

Bam despened.

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View in ImperialExport to ExcelGIC Well ID141620GoA Well Tag No.

Drilling Company Well ID
Date Report Received

COTTITUD										Date Report Receive	30 1303/02/21
Well Iden	tification and L	ocation.		The State of the S							Measurement in Metric
Owner Nar KNIEVEL,			Address TROCHU			Town			Province	Country	Postal Code
Location	1/4 or LSD SW	SEC 21	TWP 33	RGE 23	W of MER	Lot	Block	Plan	Additio	nal Description	
Measured	from Boundary o	of m from m from			GPS Coordin Latitude 5 How Location Map	1.834654	-	es (NAD 83) itude <u>-113.2</u>		Elevation	m_ ained

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

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
7.62		Brown Sandy Till & Clay	
9.14		Gray Clayey Till	b differenced defendenced defendenced defendence on the contract of the contra
24.99		Brown Sandstone	Permitted by the control of the cont
33.83		Gray Sandstone	
37.19		Gray Shale	
38.40		Gray Sandy Shale	
47.85		Gray Sandy Shale	
49.99		Coal	
51.82		Gray Shale	
54.86		Gray Shale	
68.58		Gray Sandy Shale	
78.94		Gray Sandstone	
81.99		Gray Shale	
96.32		Gray Shale	
96.62		Gray Hard Sandstone	
99.67		Gray Sandy Shale	
100.58		Gray Sandstone	
102.41		Gray Shale	
102.72		Gray Sandstone	
114.91		Gray Sandstone	
115.82		Gray Hard Sandstone	And determine which below the second
119.79		Gray Sandstone	
121.92		Gray Shale	starts depotation of the same

Yield Test Summa			Mea	asurement in Me		
Recommended Pun				Carpornal ha Radina' arranna dha Thairlig a hadhadha Radinna anach adh a dhainn ann an		
		Static Water Level (m)				
1983/01/12	1983/01/12 15.91			15.15		
Well Completion			Mea	asurement in Me		
Total Depth Drilled	Finished Well Dep	th Start Date		End Date		
121.92 m				1983/01/12		
Borehole						
Diameter (cm)	Fro	om (m)		To (m)		
0.00				121.92		
Surface Casing (if Steel	applicable)	Well Casing Plastic	/Liner			
Size OD :	13.97 cm	Size	OD:	11.43 cm		
Wall Thickness:	0.620 cm	Wall Thick	ness:	0.000 cm		
Bottom at :	36.88 m	To	p at :	0.00 m		
		Botto	m at :	121.92 m		
Perforations	all Market spiles poligina has alkalisada dimbagi alamba, mpilanka, apidippi, dimaga pa	and the same of th				
and district and the second	Diameter or Slot Width			loie or Slot		
From (m) To (i 54.86 121.	m) (cm)	(cm)	I	nterval(cm)		
54.86 121.	92 0.635			20.32		
Perforated by	Machine					
Annular Seal Driv						
Placed from	0.00 m to	0.00 m	_			
Amount		_				
Other Seals						
Ту	pe		At (m)		
page-plane it is the foundation of an administration to the state of t	indirektikkir sirmisili elemisili sarasutrililiniskir sarasutrasutrasutrasutrasutrasiskir at			and an extension to demonstrate in the second national and re-		
Screen Type						
Size OD:	0.00 cm					
From (m)	To	o (m)		Slot Size (cm)		
Attachment	an makasa attan a attago ya Et in attang ya ya fana ya ya aya aya a aya aya aya a	**************************************	·			
Top Fittings		Bottom Fit	tings			
Pack						
Туре		Grain Size				
Amount				_		

O	Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

LOUSANA WATER WELLS (1987) LTD.

Certification No

Copy of Well report provided to owner Date approval holder signed



View in Imperial Export to Excel

141620

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

1983/02/21

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Date Report Received Well Identification and Location Measurement in Metric Owner Name Address Province Town Country Postal Code KNIEVEL, PHILIP **TROCHU** TWP Additional Description Location 1/4 or LSD SEC RGE W of MER Lot Block 21 33 23 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Elevation Latitude 51.834654 Longitude -113.211663 m m from How Location Obtained How Elevation Obtained m from Not Obtained Map Additional Information Measurement in Metric Distance From Top of Casing to Ground Level Is Artesian Flow Is Flow Control Installed Rate Describe Recommended Pump Rate 18.18 L/min Pump Installed Depth m Recommended Pump Intake Depth (From TOC) 106.68 m Make H.P. Type _ Model (Output Rating) m Well Disinfected Upon Completion Did you Encounter Saline Water (>4000 ppm TDS) Depth Depth Geophysical Log Taken m Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well DRILLER REPORTS SOFT WATER **Yield Test** Taken From Ground Level Measurement in Metric Depth to water level Test Date Start Time Static Water Level Elapsed Time Drawdown (m) Recovery (m) 1983/01/12 12:00 AM 15.15 m Minutes:Sec Method of Water Removal Type Pump Removal Rate 15.91 L/min Depth Withdrawn From 30.48 m If water removal period was < 2 hours, explain why Water Diverted for Drilling Water Source Amount Taken Diversion Date & Time

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name

LOUSANA WATER WELLS (1987) LTD.

Certification No

Copy of Well report provided to owner

Date approval holder signed



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	ERAL WATER INFORMATION - E	NRCB USE ONLY			
	the existing manure storage facility mon body of water or water well	Comments	Meets regulations		
What manu 1:25 y level?		>5(m)	⊠Estimated □From records		YES NO YES with exemption
Sprin	gs, wells, and surface water information	n			☐ YES ☐ NO
How many springs are within 100 m of manure storage facilities or manure collection areas?			0		YES with exemption
	low many water wells are within 100 m of th torage facilities or manure collection areas?	2		YES NO YES with exemption	
st	What is the shortest distance from an manure torage facility to a surface water body? (ie, lough, seasonal, etc.)	none		YES NO YES with exemption	
Groundwater information			☐Estimated		
			☐Measured	N/A	
a. W	a. What is the depth to bedrock?		☑ Drilling reports		
			☐Estimated		☐ YES ☐ NO
	Vhat is the shallowest depth to the ppermost groundwater resource?	22,25(m)	Measured		☐YES with
	FF		☑Drilling reports		exemption

Additional information: (attach borehole logs and records, as required)

Last updated: 05 Feb 18



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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)

SOLID MANURE, COMPOST & COMPOSTING MATERIALS: Barns, feedlots & storage facilities -

Concrete liner									
(complete a copy of this section concrete liner)	for EACH barn, feedlot and st	torage facility for solid manure, cor	mposting materials or compost with a						
Facility description / name (as indicated on site plan)									
1. Laver Bo		e f Ra Ha							
	1000 ti	2. 0. 60. 1	R-						
Manure storage capacity		3. rubbet Barn.							
Length (m)	Width (m)	Estimated storage capacity (m³)	Depth below grade to the bottom of the liner (m)						
1. 12.2	38.1								
2. 12.2	33.5		0						
3 11.0	31.1		-0						
NRCB USE ONLY									
Depth to water table:		Requirements met:	s 🗆 no						
Depth to UGR:		Requirements met:	s 🗆 no						
ERST completed:	ERST completed:								
Groundwater risk level:		Surface Water risk level	Surface Water risk level:						
UGR: Uppermost Groundwater	Resource as defined under AC	OPA's Standards and Administration	n Regulation.						
Surface water control systems Under roof: Surface water will be controlled by the walls and roof of the building and by the finished landscaping.									
Outdoor: Describe the	run-on and runoff control syste	em proposed for feedlots and outd	oor manure storage facilities						
NRCB USE ONLY									
Requirements met:									

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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)

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

Concrete liner details				
Concrete thickness	Provide details:			
5 "				
<i>></i>				
Concrete strength	Provide details:		····	
25 mpa 28 day.		*		
Method of sulphate () protection	Provide details:			
Type 50				
Concrete reinforcement size	Provide details:			
and spacing				
mesh.				
Additional information:				
NRCB USE ONLY				
Technical guideline requiremen	nts met:	☐ YES ☐ NO		
Construction plans approved b	y professional engineer:	☐ YES ☐ NO	Condition required:	☐ YES ☐ NO
Comments:				
				10 10
Last updated: 05 Feb 18		IDCD LICE CAN'Y		Page 12 of 12
	N	IRCB USE ONLY		