Technical Document BA24007

Part 2 — Technical Requirements



NRCB USE ONLY	Application number	Legal la	nd description		
☐ Approval ☐ Registration ☒ Authorization	BA24007	NE 1-4	19-27 W4		
Amendment			THE PERSON NAMED IN		
APPLICATION DISCLOSURE					
his information is collected under the authority of the Agric rovisions of the Freedom of Information and Protection of ritten request that certain sections remain private.					
ny construction prior to obtaining an NRCB permit is rosecution.	an offence and is subject to	enforcement a	action, including		
the applicant, or applicant's agent, have read and unders rovided in this application is true to the best of my knowle		I acknowledge	that the information		
uly 12, 2024					
ate of signing	Signature				
Peeters Farms Ltd.	Petrus Peeters				
orporate name (if applicable)	Print name				
ENERAL INFORMATION REQUIREMENTS Proposed facilities: list all proposed confined feeding op	eration facilities and their dimen	sions. Indicate	whether any of the		
proposed facilities are additions to existing facilities. (atta	ch additional pages if needed)	Di	mensions (m)		
Proposed facilities	roposed facilities				
Construct Freestall Barn #3		125 x 51			
Construct New Milk House			80 x 25		
Existing facilities: list ALL existing confined feeding ope					
Existing facilities		Dimensions (m) (length, width, and depth)			
Milk house facility	20.5 x 4	6.5			
Free stall barn 1	20.5 x 9	95			
Free stall barn 2	20.5 x 9	95			
NRCB USE ONLY					
Free stall barn 2 NRCB USE ONLY					



Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Shelter	16.5 x 19	
Manure Storage lagoon	80 x 80 x 4.4	
Heifer facility	125 x 25	
Solid Maure Storage #1	25 x 25	
Solid Manure Storage #2	25 x 25	



If a new facility is replacing an old facility, pleas	e explain what will hap	pen to the old facility an	d when. 🗆 N/A
Old facility will be used for equipment storag	e & to house replacer	nents and dries.	
frant of old milkhouse	to stonge		
	November 2026		
Construction completion date for proposed facilit Additional information	ties		
No change in permitted animal numbers or n	лана о роздолог		
Livestock numbers: Complete only if livestock numl livestock numbers increase in your Part 2 application, priority for minimum distance separation (MDS).	pers are different from what a new Part 1 application r	at was identified in the Part nust be submitted which ma	1 application. Note: if ay result in a loss of
Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Milking cows + Dries + Replacements	460	0	460
		 	



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

DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO) Date and sign one of the following four options

	I DO want my water licence app	lication coupled to	my AOPA permit application	on.
Sigi	ned thisday of	, 20		
			Signatu	re of Applicant or Agent
<u>OP</u>	TION 2: Processing the AOPA	permit and Wate	er Act licence separately	1
1.	I (we) acknowledge that the CFG development or activity propose			der the Water Act for the
2.	I (we) request that the NRCB pr CFO's application for a water lice	ocess the AOPA a		of EPA's processing of the
3.	In making this request, I (we) re NRCB's decision will not be cons water licence under the <i>Water A</i>	ecognize that, if th idered by EPA as i		
4.	I (we) acknowledge that any cor AOPA permit in the absence of a whether to grant the <i>Water Act</i>	Water Act licence	will not be relevant to EP.	
5.	I (we) acknowledge that any such the Water Act licence application violation of the Water Act. This further construction, or to remove	n is denied or if the risk includes bein	e operation of the CFO is of g required to depopulate th	therwise deemed to be in ne CFO and/or to cease
	AS RELEVANT: I (we) acknowled and that, pursuant to the <i>Bow</i> , (alta. Reg. 171/2007], this basis	Oldman and South n is currently close	Saskatchewan River Basin	Water Allocation Order
	Provide: Water licence applicat			
Sigi	ned this day of	, 20	Signat	ure of Applicant or Agent
<u>OP</u>	TION 3: Additional water licer	nce not required		
	I (we) declare that the CFO will development or activity propose Provide : Water license number	ed in this AOPA ap	olication.	
	00176369-00-00, 00144749-00-00	, 00144732-00-00		
Sig	ned this 12 day of July	, 2024	124d4c69-1df7-4ba5-b446- c60e6b7bb0b0	Digitally signed by 124d4c69-1df7-4ba5-b446- c80e6b7bb0b0 Date: 2024.07.12 22:29:41-06'00'
			Signat	ure of Applicant or Agent

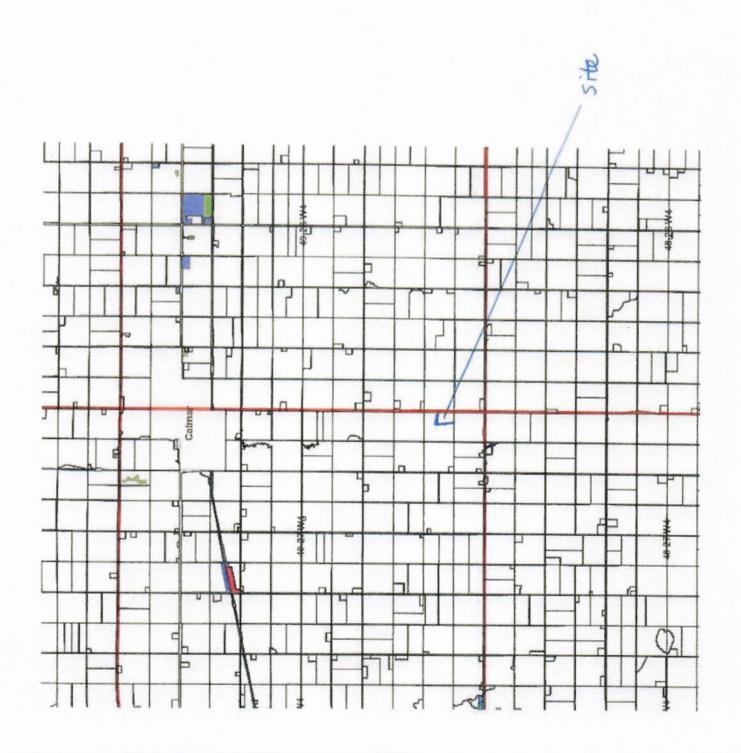


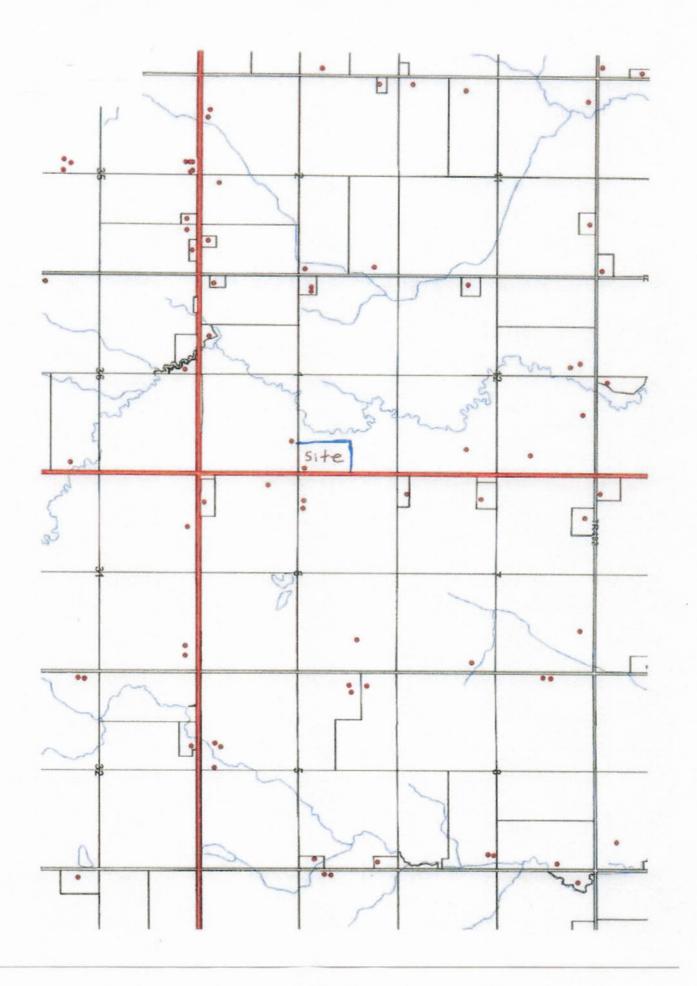
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

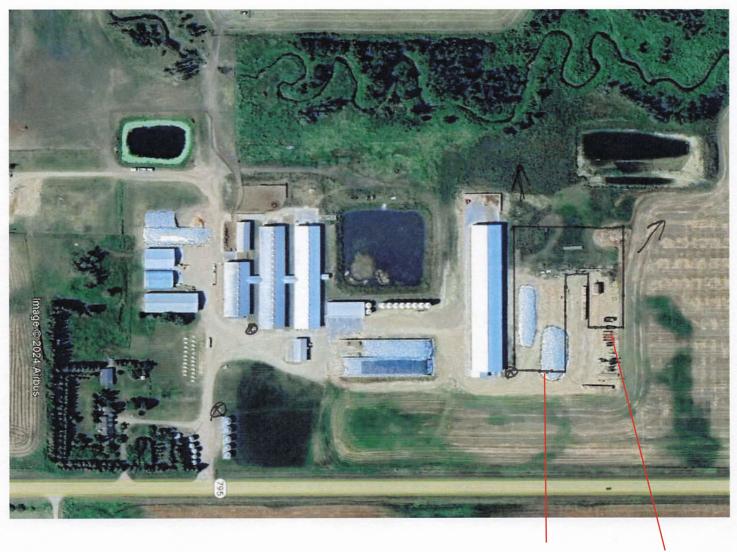
OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

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

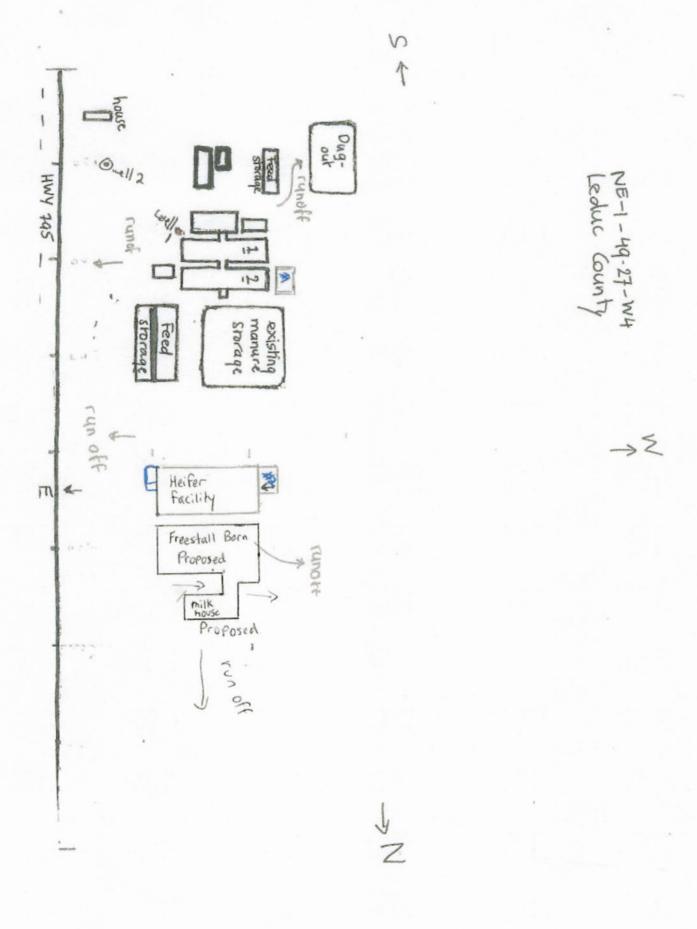
Signed this	day of	, 20	
	- Charle Vines		Signature of Applicant or Agent







dairy barn #3 milk house





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

GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: Existing Fac	Flopt	Proposed 1: Free stall barn				
Proposed 2: milk house	Propo	sed 3:				

Facil	ity and environmental risk		Faci	lities		NRCB USE ONLY		
	information		Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments	
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	■ >1 m □ ≤1 m	■ >1 m □ ≤1 m	■ >1 m □ ≤1 m	□ > 1 m □ ≤ 1 m	YES NO NO YES with exemption	Not in flood plain	
ja c	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0	0		YES NO YES with exemption	None known	
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	2	1	1		YES NO YES with exemption	ID 2086326	
Sur	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	>100	>100	>100		YES NO YES with exemption	67 m to Conjuring creek	
lwater	What is the depth to the water table?	6.3	6.3	6.3		YES NO YES with exemption	Confirmed	
Groundwater	What is the depth to the groundwater resource/aquifer you draw water from?	33	33	33		YES NO YES with exemption	27.48 m	

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

see permit # BA 09004

Part 2 — Technical Requirements Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area.



Facility	Groundwater score	Surface water score	File number
Dairy barn	Low	Low	BA24007
ST for <u>existing</u> facilities			
Facility	Groundwater score	Surface water score	File number
Young stock barn	Low	Low	BA20008
Solid manure storage pad	Low	Low	BA20008
Dairy barn 1	Low	Low	BA20008
Dairy barn 2	Low	Low	BA20008
EMS	Low	Low	BA20008
Shelter and pen	Low	Low	BA20008

Last updated February 26, 2021



NRCB USE ONLY WATER WEL		WATER INFORMATION	ON							
Well IDs:	ID 296950									
Well IDS.	ID 2086326									
Surface water rela	ated concerns from di	irectly affected parties or refe	erral agencies:	☐ YES M NO						
Groundwater related concerns from directly affected parties or referral agencies:										
Water wells										
	If applicable, exemption for 100 m distance requirements applied: V YES NO Condition required: VYES NO Surface water V N/A									
If applicable, exe	mption for 30 m dista	nce requirements applied:	YES NO Condition	required: YES NO						
Water Well Exe	mption Screening T	ool 🗆 N/A								
Wate	er Well ID	Preliminary Screening Score	Secondary Screening Score	Facility						
ID 20	86326	Low exemption likely	N/A	Dairy barn						
Groundwater or	· surface water rela	ted comments:								





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

296950

					contained in this re n this report will be				ty for its	Drilling Company Well I	
GOWN ID			_		•					Date Report Received	2001/08/15
Well iden	tification and I	_ocation									Measurement in Metric
Owner Na. PETERS,			Address P.O. BOX	89 RR4, C	ALMAR	Town			Province	Country	Postal Code T 0C 0V0
Location	1/4 or LSD 9	SEC 1	<i>TWP</i> 49	RGE 27	W of MER 4	Lot	Block	Plan	Additio	nal Description	
Measured		of m from So m from Ea			GPS Coordii Latitude 5 How Locatio Not Verified	3.201281	-	es (NAD 83 itude <u>-113.</u> 8		Elevation How Elevation Obtained	m ed

	n from South n from East	How Location Obtaine		How Elevation Obtaine	ed
	<u> </u>	Not Verified		Not Obtained	
Drilling Information Method of Drilling Rotary Proposed Well Use Domestic		Type of Work New Well			
Formation Log	М	easurement in Metric	Yield Test Summary		leasurement in Metric
Depth from Water ground level (m) Bearing	Lithology Description		Recommended Pump Rate Test Date Water Remova		tic Water Level (m)
0.91	Black Topsoil		2001/02/27 38.	64	17.89
6.10	Clay		Well Completion		leasurement in Metric
8.53	Sandy Clay	i	Total Depth Drilled Finished We	•	End Date
10.67	Sand & Coal		57.91 m	2001/02/18	2001/02/27
11.28	Coal		Borehole	F ()	T- (-)
19.81	Sandy Shale		Diameter (cm) 0.00	From (m) 0.00	To (m) 57.91
24.38	Gray Sandy Shale		Surface Casing (if applicable)	Well Casing/Line	e <i>r</i>
27.43	Shale & Coal	İ	Plastic	Plastic	44.40
33.53	Gray Shale		Size OD : 15.24 of Wall Thickness : 0.991 of		: 11.43 cm : 0.734 cm
35.05	Black Fractured Shale		Bottom at : 29.26 n		
39.01	Shale	j	Bollom at	Bottom at	
40.23	Limestone		Perforations	Dollom at	·
45.72	Green Shale		Diame		
47.24	Coarse Grained Sand & Sand	stone	From (m) To (m) (cr	- · · · · · · · · · · · · · · · · · · ·	Hole or Slot Interval(cm)
50.90	Shale		33.53 39.62 0.1		6.35
52.73	Shale & Sandstone Ledges		Perforated by Saw	•	
57.91	Green Shale		Annular Seal Bentonite Chips/ Placed from 0.00 m Amount Other Seals Type	to 29.26 m	At (m)
			Screen Type Size OD: 0.00 c	m To (m)	Slot Size (cm)
		ł	Attachment		
			Top Fittings	Bottom Fittings	

Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name

SNETLER WATER WELL DRILLING LTD.

Pack Туре

Amount

Copy of Well report provided to owner Date approval holder signed

Grain Size _



View in Imperial Export to Excel

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

296950

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.

OWN ID		_			:- , :	•				Date Report Received	2001/08/15
Well Iden	tification and l	ocation								!	Measurement in Metric
Owner Nar PETERS, I			Address P.O. BOX	89 RR4, C	ALMAR	Town			Province	Country	Postal Code T0C 0V0
Location	1/4 or LSD 9	SEC 1	<i>TWP</i> 49	RGE 27	W of MER 4	Lot	Block	Plan	Additio	nal Description	
Measured		of m from So m from Ea			GPS Coordir Latitude 5 How Location Not Verified	3.201281	•	es (NAD 83) tude <u>-113.8</u>		Elevation How Elevation Obtaine Not Obtained	m ed
	Information									•	Measurement in Metric

106.68 m from East	How Location O Not Verified	btained	How Eleva Not Obtain	ed
Additional Information				Measurement in Metric
Distance From Top of Casing to Ground Level Is Artesian Flow	cm	Is Flow Con	trol Installed	
Rate L/min		10 1 1011 0011	Describe	
Recommended Pump Rate	36.37 L/min	Pump Installed	Depth	m
Recommended Pump Intake Depth (From TOC)	30.48 m	Туре	Make	<u> Н</u> .Р
			Model (C	utput Rating)
Did you Encounter Saline Water (>4000 ppm TDS)	Depth	m	Well Disinfected Upon Completion	
Gas	Depth	m	Geophysical Log Taken	
Remedial Action Taker.		_	Submitted to ESRD	.
		Sample Co	ollected for Potability	Submitted to ESRD
Additional Comments on Well			· 	
DRILLER REPORTS DISTANCE FROM TOP OF CASINO	TO GROUND LEVE	L: 20".		
Yield Test		-	Taken From Ground Leve	el Measurement in Metric
Toot Data Start Time Sta	stin Motor Loval		Depth to water lev	vel

ield Test	Ota et Timo	Otatio Material and	Taken	From Ground Level Depth to water level	Measurement in Met
Test Date 2001/02/27	Start Time 12:00 AM	Static Water Level 17.89 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
			17.88	0:00	19.14
lethod of Water F	Removal		18.42	1:00	19.16
	Type Pump		19.00	2:00	19.19
Removal	Rate 38.64 L/m	in .	19.48	3:00	19.21
		•	19.53	4:00	19.24
Depth Withdrawn I	From 30.48 m	-	19.60	5:00	19.27
	*		19.66	6:00	19.30
f water removal pe	riod was < 2 hours, explain	why	19.72	7:00	19.33
			19.78	8:00	19.35
			19.84	9:00	19.42
			19.93	10:00	19.45
			19.94	12:00	19.49
			19.99	14:00	19.50
			20.02	16:00	19.55
			20.05	20:00	19.59
			20.05	25:00	19.63
			20.08	30:00	19.66
			20.15	35:00	19.69
			20.15	40:00	19.71
			20.16	50:00	19.73
			20.18	60:00	19.75
			20.19	75:00	19.80
			20.19	90:00	19.79
			20.28	105:00	19.81
			20.31	120:00	19.83

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

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name SNETLER WATER WELL DRILLING LTD. Certification No

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davy bias Water Well Drilling Report

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GIC Well ID GoA Well Tag No.

1576065

Drilling Company Well ID

GOWN ID	accuracy. The information on this	report will be recained in a p	ublic database.		Date Report Received	d 2012/12/03
Well Identification and Location	'n					Measurement in Metric
Owner Name PEETERS DAIRY LTD.	Address P.O. BOX 89	Town CALM	AR	Province ALBERTA	Country CANADA	Postal Code T0C 0V0
Location 1/4 or LSD SEC NE 1		W of MER Lot	Block Pla	an Addition	al Description	
Measured from Boundary of		GPS Coordinates in Dec atitude 53.203262	• •	4D 83) -113.811514	Elevation	m
m from m from		How Location Obtained	_		How Elevation Obtain	
		Not Verified		-	Not Obtained	
Drilling Information		<u> </u>				
Method of Drilling Combination		<i>Type of Work</i> New Well				
Proposed Well Use Domestic & Stock			 			
Formation Log	Measu	rement in Metric	Yield Test Sur	-		Measurement in Metric
Depth from Water Litho ground level (m) Bearing	ology Description		Recommended Test Date	Pump Rate Water Removal I	36.37 L/min Rate (L/min) S	Static Water Level (m)
10.67 Cla	iy	} L	2012/09/27	31.82	2	22.12
12.50 Sha	ale		Well Completi			Measurement in Metric
17.07 Sar	ndstone		Total Depth Drii 64.01 m	lled Finished Well 64.01 m	Depth Start Date 2012/09/18	End Date 2012/09/18
17.37 Coa			Borehole	64.01 M	2012/09/16	2012/09/16
	tstone		Diameter	(cm)	From (m)	To (m)
23.77 Coa			20.02	2 .	0.00	30.48
39.93 Sha			13.03		30.48	64.01
	tstone		Plastic	g (if applicable)	Well Casing/L Plastic	iner
46.63 Sha			Size Ol	D: 15.24 cm	Size O	D: 11.43 cm
	ndstone		Wall Thicknes	is: 0.991 cm	Wall Thicknes	ss: 0.699 cm
52.43 Sha			Bottom a	at: 30.48 m	- '	
57,00 Sar 64.01 Sha	ndstone		Perforations		Bottom	at: 64.01 m
04.U1 316	aic		renorations	Diamete	r or	
				Slot Wie	dth Slot Length	Hole or Slot
				To (m) (cm) 57.91 0.160		Interval(cm) 15.24
			Perforated by	Saw		
				Bentonite Chips/Ta		
			Placed from Amount			
			Other Seals	0.00 1	<u>augu</u>	
				Type		At (m)
			c	Driven Shale Trap		30.48 30.48
			Screen Type	maic map		301.0
				D: cm	1	
			From (ı		To (m)	Slot Size (cm)
			Attachmei	nt		
				gs	Bottom Fitting	gs
			Pack			
			Туре		Grain Size	
		[Amount			
						,
Contractor Certification Name of Journeyman responsible	for drilling/construction of well		Certi	fication No		
or occurreyment reopensions			03/11			

DARREN PAPLEY

Company Name PAPLEY DRILLING LTD.

Copy of Well report provided to owner

Date approval holder signed 2012/11/15

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

1576065

GOWN ID

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Date Report Received 2012/12/03

Well Identi	ification and L	ocation									Measurement in Metric
Owner Nam			Address			Town		Provinc		Country	Postal Code
PEETERS I	DAIRY LTD.		P.O. BOX	39		CALMAI	R	ALBER	RTA	CANADA	T0C 0V0
Location	1/4 or LSD	SEC	TWP	RGE		Lot	Block P	Plan Addi	tional Descrip	tion	
	NE	1	49	27	4 GPS Coordinate	no in Dogim	ol Dograda /A	IAD 92)	, 		
Measured fi	rom Boundary o				Latitude 53.2			-113.811514	Elevation		m
		m from			_		_ Longhade	-113.011314		/ation Obtail	
		m from			How Location C	Diamed					neo
					Not Verified				Not Obta	inea	
Additional	Information										Measurement in Metric
Distance E	mm Top of Coo	ina to Cro	und Loval		45 70 am						
Distance r	rom Top of Cas	any to Gro	una Lever _		45.72 cm	lo F	Elow Control I	nstalled			
is Artesiai	n Flow		1 Imin			13 1	וו וטאונט ווייט	nstalled			
	Rate		□/min					escribe			
Recommer	nded Pump Rat	е			36.37 L/min	Pump Ir	nstalled Yes		Depth	47.24	1 m
Recommer	nded Pump Inta	ke Depth	(From TOC)		47.24 m	Туре 5	Submersible	Make _		н	I.P. <u>0.5</u>
									Model (Output Ratio	ng) 7 GPM
Did you F	Encounter Salin	e Water />	4000 oom T	181	Denth	•	m 14/4	all Disinfected Lin	on Completio	r. Voc	
Dia you E	incounter Sami	e water (>						ell Disinfected Up			-
Remedia	l Action Taken		(³⁸⁸ —	Depth		m	Geophysical L	_		
rtemedia	ACCION TAKEN							Submitted	to ESRD		
							I- C-!I4	and for Datability		0	
A dalikia m	al Cammanta a	n 14/n#				5	атрів Соіївст	ed for Potability		Submitt	ed to ESRD
	al Comments or										
COMBINA	TION ROTARY	AIR & MU	D DRILLING	, PROP	OSED WELL USE - F	ARM, AN	NULAR SEAL	- ALSO CUTTIN	GS		
Yield Test								Taken From	Top of Cas	ing	Measurement in Metric
		A —							pth to water I		
Test Date 2012/09/27	,	Start Tim 1:00 PM		Sta	tic Water Level 22.12 m		Pumping	(m)	Elapsed Tim	e	Recovery (m)
2012/03/21	•	1.00 FIVI			22.12 111			,	Minutes:Se		
M-4b-1-6		- 4					22.12		0:00		29.92
wetnoa or	Water Remova						23.19		1:00		27.64
	Type P					-	24.23 25.07		2:00 3:00		26.21 25.17
R	Removal Rate _	;	31.82 L/min				25.70		4:00		24.31
Depth Witl	hdrawn From _		47.24 m				26.06		5:00		23.70
						_	26.44	‡	6:00		23.34
If water ren	noval period wa	ıs < 2 houi	rs, explain wh	y			26.75		7:00		23.06
TESTED @	7 GPM FROM	10 TO 16	MINS AND @	8 GPM	FROM 16 TO 120		27.03		8:00		22.91
MINS							27.23		9:00		22.78
							27.46		10:00		22.71
							27.81		12:00		22.66
							28.04 28.19		14:00 16:00		22.63 22.61
							28.50		18:00		22.58
							28.75		20:00		22.58
							29.11		25:00		22.56
							29.31		30:00		22.48
							29.41		35:00		22.45
							29.59		40:00		22.45
							29.67		50:00		22.43
							29.67		60:00		22.40
							29.74 29.79		75:00 90:00		22.35 22.33
							29.75		105:00		22.33 22.30
							29.92		120:00		22.27
									.=		
Water Dive	erted for Drillin	ng			-						
Water Source	ce			Ai	nount Taken			Divers	sion Date & T	ime	
TOWN					64.53 L				09/18 11:00 A		
									,		
Contractor	Certification										

Name of Journeyman responsible for drilling/construction of well DARREN PAPLEY

Company Name PAPLEY DRILLING LTD. Certification No

5896A

Copy of Well report provided to owner

Date approval holder signed

2012/11/15

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GIC Well ID GoA Well Tag No.

1577059 A7277

Drilling Company Well ID

M-8 1386-4 316	
Well Identification and Location	Measurement in Metric
Owner Name Address Town PEETERS DAIRY LTD. P.O. BOX 89 CALMAR	Province Country Postal Code ALBERTA CANADA TOC 0V0
Location 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan NE 1 49 27 4	Additional Description
Measured from Boundary of m from m from m from Measured from Boundary of m from Mow Location Obtained Not Verified	· 1

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

п					
Ī	Formation Log			Measurement in Metric	
	Depth from ground level (m)	Water Bearing	Lithology Description		
	17.07		Clay		
	17.37		Coal		
	21.64		Shale		
	24.38		Sandstone		
	40.54		Shale		
	56.39		Interbedded Shale & Sand	istone	
1	57.91		Shale		

Yield Test Summary	Measurement in Metric						
Recommended Pump Rate45.46 L/min_							
Test Date Water Removal Rate (L,	/min) Static Water Level (m)						
2023/11/23 45.46	24.26						
Well Completion	Measurement in Metric						
Total Depth Drilled Finished Well Depth	Start Date End Date 2023/10/11 2023/10/11						
57.91 m 57.91 m	2023/10/11 2023/10/11						
Borehole							
Diameter (cm) From							
20.00 0.00 13.02 22.8	7						
Surface Casing (if applicable)	Well Casing/Liner						
	Size OD : 11.43 cm						
Wall Thickness: 0.991 cm	Size OD : 11.43 cm Wall Thickness : 0.554 cm						
Bottom at : 22.86 m	Top at : 21.34 m						
	Bottom at : 57.91 m						
Perforations							
Diameter or Slot Width	Slot Length Hole or Slot						
From (m) To (m) (cm)	(cm) Interval(cm)						
39.62 57.91 0.159	15.24						
Perforated by Saw							
Annular Seal Bentonite Chips							
Placed from 0.00 m to							
Amount 50.00 Pounds							
Other Seals							
Type Driven	At (m) 22.86						
Shale Trap	22.86						
Screen Type							
Size OD :cm_	:						
From (m) To (r	m) Slot Size (cm)						
Attachment							
Top Fittings	Bottom Fittings						
Pack							
Туре	Grain Size						
Amount							

Contractor	Certifica	tior
------------	-----------	------

Name of Journeyman responsible for drilling/construction of well

DARREN PAPLEY

Company Name PAPLEY DRILLING LTD. Certification No

Copy of Well report provided to owner Yes

Date approval holder signed

2023/11/30



View in Imperial Export to Excel

1577059

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

A7277

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. 2024/01/05 Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code PEETERS DAIRY LTD. P.O. BOX 89 CALMAR **ALBERTA** CANADA T0C 0V0 TWP 1/4 or LSD SEC RGE W of MER Block Plan Additional Description Location Lot ΝE 49 27 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 53.203271 Longitude -113.811531 Elevation m

m from	How Location O. Not Verified	btained		Elevation Obtained otained	
Additional Information				Measurement	in Metric
Distance From Top of Casing to Ground Level Is Artesian Flow Rate L/min	45.72 cm	Is Flow Control I	nstalled	-	
Recommended Pump Rate Recommended Pump Intake Depth (From TOC)	45.46 L/min 33.53 m	Pump Installed Yes Type Submersible	Depth Make Mode	33.53 m H.P. 0.5 el (Output Rating) 10 GPM	
Did you Encounter Saline Water (>4000 ppm TDS)	Depth	<u>m</u> W	ell Disinfected Upon Comple	tion Yes	
Gas Remedial Action Taker:	Depth	m	Geophysical Log Taken Submitted to ESRD		
Additional Comments on Well ANNULAR SEAL ALSO CONTAINS CUTTINGS.		Sample Collect	ted for Potability	Submitted to ESRD	
Viold Test		- "	Taken From Top of Co	asing Measurement	in Metric

Test Date	Start Time	Static Water Level	Taken	From Top of Casing Depth to water level	Measurement in Met
7 est Date 2023/11/23	1:00 PM	24.26 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
			24.75	1:00	24.66
Method of Water R	Removal		24.93	2:00	24.57
-	Type Pump		25.05	3:00	24.51
Removal i		n	25.05	4:00	24.51
		•	25.12	5:00	24.44
Depth Withdrawn F	From 33.53 m	•	25.12	6:00	24.44
	-		25.18	7:00	24.44
f water removal pe	riod was < 2 hours, explain	why	25.18	8:00	24.44
			25.18	9:00	24.44
			25.21	10:00	24.44
			25.21	12:00	24.38
			25.24	14:00	24.38
			25.24	16:00	24.38
			25.27	18:00	24.38
			25.27	20:00	24.35
			25.33	25:00	24.35
			25.36	30:00	24.35
			25.36	35:00	24.32
			25.42	40:00	24.32
			25.45	50:00	24.29
			25.48	60:00	24.29
			25.48	75:00	24.26
			25.51	90:00	24.26
			25.51	105:00	24.26
			25.54	120:00	24.26

Water Diverted for Drilling			
Water Source	Amount Taken	Diversion Date & Time	
TOWN	7273.75 L	2023/10/11 8:00 AM	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

DARREN PAPLEY Company Name

PAPLEY DRILLING LTD.

Certification No

5896A

Copy of Well report provided to owner

Date approval holder signed

2023/11/30



GIC Well ID

View in Imperial Export to Excel 1576815

GoA Well Tag No. **Drilling Company Well ID** A4696

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.

OWN ID			•		•		•			Date Report Received	d 2021/10/29	
Well Iden	tification and L	ocation									Measurement in I	Metric
Owner Name PETE PETERS DAIRY		Address P.O. BOX	89	<i>Town</i> CALMAR				Province ALBERTA	Country CANADA	Postal Co T0C 0V0		
Location	1/4 or LSD NE	SEC 1	TWP 49	RGE 27	W of MER 4	Lot	Block	Plan	Additio	nal Description		
Measured from Boundary of m from				GPS Coordin	ates in De	cimal Degre	es (NAD 83)			\neg	
			Latitude 5	3.203271	Longi	tude <u>-113.8</u>	311531	Elevation	m			
		m from			How Location	n Obtained				How Elevation Obtain	ined	
				1	Not Verified]	Not Obtained		
	•											

		Not vermed	I Not Obtained	
Drilling Information		1		
Method of Drilling Combination		Type of Work New Well		
Proposed Well Use Domestic & Stock		1		
Formation Log		Measurement in Metric	Yield Test Summary Measurement in M	etric
Depth from Water ground level (m) Bearing	Lithology Description		Recommended Pump Rate	
14.63	Clay		2021/07/28 54.55 23.41	
16.76	Sand & Coal	Ì	Well Completion Measurement in M	etric
23.47	Shale	1	Total Depth Drilled Finished Well Depth Start Date End Date	
24.08	Coal		57.91 m 57.91 m 2021/07/26 2021/07/26	
32.92	Shale & Sandstone		Borehole	
39.93	Shale		Diameter (cm) From (m) To (m) 20.00 0.00 23.16	
43.89	Sandstone		13.02 23.16 57.91	
47.24	Shale	1	Surface Casing (if applicable) Well Casing/Liner Plastic Plastic	
56.39	Sandstone		Size OD: 15.24 cm Size OD: 11.43 cm	
57.91	Shale		Wall Thickness: 0.991 cm Wall Thickness: 0.544 cm	
			Bottom at : 23.16 m Top at : 21.34 m	
			Bottom at : 57.91 m	
			Perforations	
			Diameter or Slot Width Slot Length Hole or Slot	
			From (m) To (m) (cm) (cm) Interval(cm)	
			39.62 57.91 0.159 15.24	
			Perforated by Saw	
			Annular Seal Bentonite Chips	
			Placed from 0.00 m to 23.16 m	
			Amount 100.00 Pounds	
			Other Seals	
			Type At (m) Driven 23.16	
			Shale Trap 23.16	
			Screen Type	
			Size OD :	
		1	From (m) To (m) Slot Size (cm)	

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well

DARREN PAPLEY

Company Name PAPLEY DRILLING LTD. Certification No

5896A

Attachment

Top Fittings

Pack

Type Amount

Copy of Well report provided to owner

Date approval holder signed

2021/08/23

Bottom Fittings

Grain Size _



GOWN ID

Water Well Drilling Report

View in Imperial

Export to Excel

GIC Well ID GoA Well Tag No. 1576815 A4696

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

2021/10/29

Well Identification and	Location					Measurement in Metric
Owner Name PETE PETERS DAIRY	Address P.O. BOX 8	9	Town CALMAR	Provine ALBEF	•	
Location 1/4 or LSD NE	SEC TWP 1 49	RGE W of MER 27 4	Lot Block	Plan Addi	itional Description	
Measured from Boundary	of		nates in Decimal Degree	, ,		
	m from	Latitude	53.203271 Longi	tude <u>-113.811531</u>	Elevation	m
	m from	How Location	n Obtained		How Elevation Of	btained
		Not Verified			Not Obtained	
Additional Information						Measurement in Metric
Distance From Top of Ca	seina to Ground Lavel	45.72 cm			•	
Is Artesian Flow		40.72 GH	Is Flow Con	rol Installed		
Rate			70.7.1011 0011			
			- Duna Indalla d N	Describe	0	0.40
Recommended Pump Ra	•	54.55 L/mi	-			0.48 m
Recommended Pump Int	ake Depth (From TOC)	30.48 m	Type Submersil	ole Make		
					Model (Output F	Rating) 10 GPM
Did you Encounter Sali	ne Water (>4000 ppm TE	DS) Depti	n	Well Disinfected Up	on Completion Yes	
			m		Log Taken	
Remedial Action Taker					d to ESRD	
			Sample Co	llected for Potability	Sub	mitted to ESRD
Additional Comments	on Well	,	·	-		
CUTTINGS INCLUDED I	N ANNULAR SEAL. COM	NFIRMED WELL DISINFE	CTED UPON COMPLE	TION WITH DRILLER	R 2021-12-02.	
			··-·			
Yield Test					Top of Casing	Measurement in Metric
Test Date	Start Time	Static Water Level	D		Elapsed Time	Danes ()
2021/07/28	1:00 PM	23.41 m	rum	ping (m)	Minutes:Sec	Recovery (m)
				24.51	1:00	24.60
Method of Water Remo	ral .		7	24.78	2:00	24.38
Туре	Pump			24.93	3:00	24.23
Removal Rate	54.55 L/min			25.02	4:00	24.14
Depth Withdrawn From				25.12	5:00	24.14
Depth Withdrawn From	30.40 111			25.18	6:00	24.08
If water as maked as a ried w	an e O bourn oundain sub			25.21	7:00	24.05
If water removal period w	as < z nours, explain wn	у		25.27	8:00	24.02
				25.30	9:00	23.99
				25.30	10:00	23.96
				25.33 25.39	12:00 14:00	23.90 23.84
				25.45	16:00	23.80
				25.48	18:00	23.77
				25.48	20:00	23.74
ı				25.54	25:00	23.68
				25.57	30:00	23.62
				25.57	35:00	23.59
				25.60	40:00	23.56
				25.63	50:00	23.50
			2	25.66	60:00	23.50
			7	25.69	75:00	23.47
			7	25.69	90:00	23.44
				25.73	105:00	23.41
				25.76	120:00	23.41
Water Diverted for Drill	ing					
Water Source	-	Amount Taken		Dhear	sion Date & Time	
TOWN		7273.75 L	_		07/26 9:00 AM	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

DARREN PAPLEY

Company Name PAPLEY DRILLING LTD. Certification No

5896A

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2021/08/23

Date approval holder signed

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

2086326

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.

	Location					Measurement in Me
Owner Name	Address		own	Province	Country	Postal Code
PEETERS DAIRY	P.O. BOX 89		ALMAR	ALBERTA	CANADA	T0C 0V0
Location 1/4 or LSD 9	SEC TWP RGE 1 49 27	W of MER Lot 4	Block Plan	Additional De	escription	
Measured from Boundary	· · · · · · · · · · · · · · · · · · ·		Decimal Degrees (NAD 8	3)		
	m from	Latitude 53.2031	30 Longitude <u>-113</u> .	807340 Ele	vation74	7.37 m
	m from	How Location Obtain			w Elevation Obtaine	
		Hand held autonome	ous GPS 20-30m	Har	nd held autonomou	s GPS 20-30m
Orilling Information				 		
Method of Drilling	1	Type of Work				
Rotary - Air		New Well				
Proposed Well Use						
Oomestic			1			
ormation Log		easurement in Metric	1 1	•		Measurement in Met
Pepth from Water ground level (m) Bearing	Lithology Description		Recommended Pun Test Date W	np Rate68 later Removal Rate	.19 L/min (L/min) Sta	itic Water Level (m)
11.58	Clay		2020/09/22	136.38		25.39
12.80	Gray Sandstone		Well Completion		N	Measurement in Me
15.24	Gray Shale		Total Depth Drilled	Finished Well Dep		End Date
17.68	Coal		60.96 m	60.96 m	2020/09/22	2020/09/22
22.25	Gray Sandstone		Borehole			
28.96	Gray Shale		Diameter (cm)		m (m)	To (m)
50.60	Gray Shale & Sandstone Ledg	es	22.23 12.70).00 3.47	23.47 60.96
53.64 Yes	Gray Sandstone		Surface Casing (if		Well Casing/Lin	
60.96	Gray Shale		Plastic		Plastic	44
			I I -	15.24 cm	Size OD	
			Wall Thickness :	0.993 cm 23.47 m	Wall Thickness Top at	
			Bottom at : _	23.47 111	Bottom at	
			Perforations		D OROTH BE	. 00.30 111
				Diameter or		
			From (m) To (i	Slot Width n) (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
			48.77 53.3		(Citi)	30.48
			Perforated by	Drill		
			Annular Seal Ben			
			Placed from	0.00 m to	23.47 m	
			Amount	200.00 Pound		
			Other Seals		_	
			Ty			At (m)
			Drive	310 0		23.47
			Screen Type			
			Size OD : _			
			From (m)	To	(m)	Slot Size (cm)
			Attachment			
			Top Fittings		Bottom Fittings	
			Pack			
			Туре		Grain Size	
			Amount			
			l			

Company Name BLACK DOG DRILLING & ENV SERV. LTD.

Copy of Well report provided to owner

Date approval holder signed

2020/09/22



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GIC Well ID GoA Well Tag No. 2086326

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 2020/11/05

Owner Name										Measurement in Metric
		Address P.O. BOX 8	20		Town CALM	AD		Province ALBERTA	Country CANAD	
PEETERS DAIRY Location 1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan		nal Description	A 100 000
9	1	49	27	4						
Measured from Boundary of			ļ			•	es (NAD 83) itude113.80		Elevation	747 37 m
	m from		- 1	How Location			110.00	,,,,,,,	How Elevation O	
	m from			Hand held at		SPS 20-30	m			omous GPS 20-30m
Additional Information										Measurement in Metric
Distance From Top of Cas	ing to Gro	und Level		91.44 cm						
Is Artesian Flow					Is	s Flow Con	troi Installed			
Rate		L/min					Describe			
Recommended Pump Rate				68.19 L/mir	Pump	Installed			Depth	<u>m</u>
Recommended Pump Inta	ke Depth ((From TOC)		48.77 m				Make		H.P.
							•		Model (Output I	Rating)
Did you Encounter Salin	e Water (>	4000 ppm Tl	DS)	Depth		m	Well Disinfe	ected Upon	Completion Yes	
•	·		Gas	 Depth		m	Geop		Taken	
Remedial Action Taken						•		Submitted to	ESRD	
						Sample Co	ollected for Po	otability	Sub	mitted to ESRD
Additional Comments or	ı Well									
Yield Test							Take		p of Casing	Measurement in Metric
Test Date	Start Tim	e	Stati	c Water Level		Deco	(m)	•	to water level	Dansun (m)
2020/09/22	2:20 PM			25.39 m		Puit	nping (m)		apsed Time Iinutes:Sec	Recovery (m)
Method of Water Remova	·								0:00	60.96
									1:00 2:00	45.26 27.64
Type A			-		_				3:00	37.64 33.99
Removal Rate									4:00	32.19
Depth Withdrawn From	6	60.96 m							5:00	31.09
									6:00	30.27
If water removal period wa	s < 2 hour	s exnlain wh	W.						7:00	29.69
" Water removal period wa	2 11041	o, oxpiain ini	,							
									8:00	29.26
									9:00	28.90
									10:00	28.62
									12:00	27.98
									14:00	27. 4 0
									16:00	26.70
									18:00	26.24
									20:00	25.88
									25:00	25.66
									30:00	25.51
									35:00	25.45
									40:00	25.42
									50:00	25.39
									60:00	25.39
									75:00	25.39 25.39
									120:00	25.39 25.39
14(· B) · · · C B · · · ·	ng .									
Water Diverted for Drilling										
Water Diverted for Drilling Water Source SHOP				ount Taken 2.18 L					Date & Time 21 3:00 PM	

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

RILEY PEARSON

Company Name BLACK DOG DRILLING & ENV SERV. LTD. Certification No

83061A

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Date approval holder signed 2020/09/22

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GIC Well ID GoA Well Tag No. Drilling Company Well ID 100318

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 1983/06/06 Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code **IWANIKA** CALMAR TWP Location 1/4 or LSD SEC RGE W of MER Lot Block Plan Additional Description 49 27 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Longitude _-113.811522 Latitude <u>53.203253</u> m m from How Elevation Obtained How Location Obtained m from Not Verified Not Obtained

Drilling Information		
Method of Drilling Rotary	Type of Work New Well	:
Proposed Well Use		
Stock	1	

ı	Stock			
ĺ	Formation Log		<u> </u>	Measurement in Metric
	Depth from \ ground level (m) I	Water Bearing	Lithology Description	
	9.14		Clay	
	10.67		Sand	
i	14.63		Shale	
	15.24		Coal	
	19.81		Shale	
	20.73		Sandstone	
	28.04		Shale	
	28.65		Sandstone	
	35.97		Shale	
	37.19		Sandstone	
	38.40		Shale	
	39.32		Sandstone	
	40.23		Shale	
	i			

Yield Test Summary	M	easurement in Metric
Recommended Pump Rate 0.00		2-14f-411-f2
Test Date Water Removal Rate (L	/min) Stati	3.96
1982/11/25 27.28		*
Well Completion		easurement in Metric
Total Depth Drilled Finished Well Depth	Start Date 1982/11/25	End Date 1982/11/25
40.23 m	1902/11/25	1962/11/25
Borehole		
Diameter (cm) From		To (m) 40.23
	u Well Casing/Line	
Galvanized Steel	Sime OD	0.00
Size OD : 11.43 cm		0.00 cm
Wall Thickness: 0.000 cm		
Bottom at : 40.23 m		0.00 m
Bartanations	Bottom at :	0.00 m
Perforations Diameter or		
	Slot Length	Hole or Slot
From (m) To (m) (cm)	Slot Length (cm)	Interval(cm)
Perforated by		
Annular Seal Formation Packer		
Placed from 0.00 m to	12.80 m	
Amount		
Other Seals	•	
Туре	A	t (m)
Screen Type		
Size OD : 0.00 cm_		
From (m) To (m)	Slot Size (cm)
Attachment		
Top Fittings	Bottom Fittings	
Pack	•	
Туре	Grain Size	
Amount		

Contractor	Certification	1

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name

BURGESS, GEORGE WELL DRILLING LTD.

Certification No

Copy of Well report provided to owner Date approval holder signed



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GIC Well ID GoA Well Tag No. 100318

GOWN ID		Ti ac	he driller supplie ccuracy. The inf	s the data ormation or	contained in this re n this report will be	port. The Prov retained in a p	rince disclaim public databas	s responsibilit se.	y for its	Drilling Company Date Report Rec	Well ID	1983/06/06
Well Identif	ication and L	ocation									Me	asurement in Metric
Owner Name IWANIKA	•		Address CALMAR			Town			Province	Countr	y	Postal Code
Location	1/4 or LSD NE	SEC 1	TWP 49	RGE 27	W of MER 4	Lot	Block	Plan		nal Description		
Measured fro		n from m from			GPS Coordii Latitude <u>t</u> How Locatio Not Verified	53.203253	•	. ,		Elevation How Elevation (Not Obtained		m
Additional I	nformation										Ме	asurement in Metric
Distance Fr Is Artesian	om Top of Cas Flow	ing to Gro	und Level		cm	l:	s Flow Con	trol Installed				
	Rate		L/min									
Recommen	ded Pump Rate	9			0.00 L/mir	n Pump	Installed `	Yes		Depth	m	
Recommen	ded Pump Inta	ke Depth ((From TOC)		12.19 m	Туре	SUB		Make	Model (Output	H.P Rating)	1/2
Remedial	ncounter Salind Action Taken I Comments or			(S) (as	Depth	n			Submitted to	o ESRD		o ESRD
Yield Test								Tak	en From C	Ground Level	Me	asurement in Metric
Test Date 1982/11/25		Start Tim 12:00 AM		Stati	c Water Level 3.96 m		Pum	iping (m)		th to water level Elapsed Time Minutes:Sec	F	Recovery (m)
Re Depth With	Water Remova Type B moval Rate drawn From oval period wa	ailer	· ·	,								
Water Dive	rted for Drillir	ıg							•			
Water Source	9			Am	ount Taken				Diversio	on Date & Time		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name BURGESS, GEORGE WELL DRILLING LTD. Certification No

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

					MKCP OSE ON		
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Hammermeister	NW-6-49-26-4	450	Ag	Cat 1	365 m	N/A	Yes*
Fandrick	SW-7-49-26-4	600	Ag	Cat 1	464 m		Yes
Armstrong	SW-7-49-26-4	470	Ag	Cat 1	504 m		Yes
Davidson	SE-12-49-26-4	866	Ag	Cat 1	914 m		Yes

*MDS exemption See Decision Summary Section 9

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)
			Total		SOMETHING IN

iotai

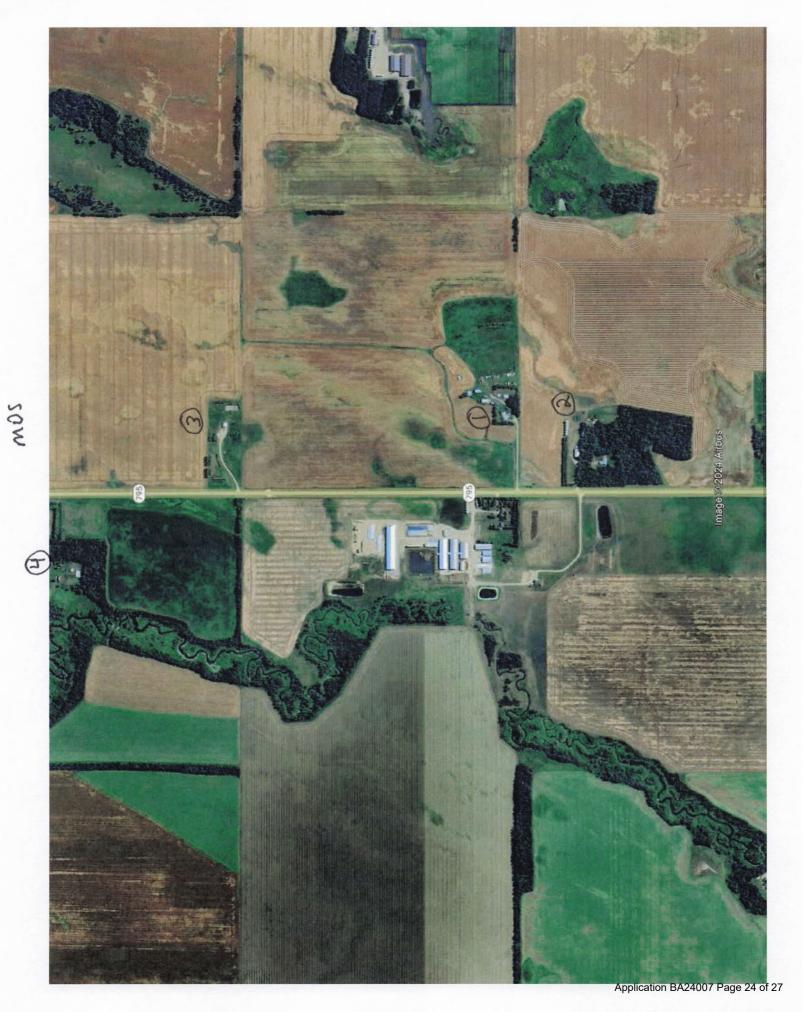
N/A application not for an increase in permitted livestock

Additional information (attach any additional information as required)

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

^{**} Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading Regulations)

^{***} Brown, dark brown, black, grey wooded, or irrigated





NRCB USE ONLY	
MINIMUM DISTANCE SEPARATION	
Trethods used to determine distance (ii deplicable):	ogle earth
Margin of error (if applicable):+/- 3 m	
Requirements (m): Category 1: 473 m Category 2:	630 m Category 3: 788 m Category 4: 1261 m
Technology factor:	☐ YES 📈 NO
Expansion factor:	☐ YES 🗗 NO
MDS related concerns from directly affected parties or referral ag	encies: YES 🗸 NO
MDS exemption (SAR section 5(c)(ii)) as propose existing CFO facilities. See Decision Summary 5	sed dairy barn is located further away than Section 9.
LAND BASE FOR MANURE AND COMPOST APPL	ICATION
Land base required: N/A not for an increase	in permitted livestock
Land base listed:	
Area not suitable:	
Available area	Requirement met:
Land spreading agreements required: \square YES \square NO	
Manure management plan:	If yes, plan is attached: \square
PLANS	
Submitted and attached construction plans: $ abla$ YES $ abla$	l no
Submitted aerial photos:	l no
Submitted photos:	NO
GRANDFATHERING	
Already completed:	I NO □ N/A
If already completed, seeBA03023	



NRCB USE ONLY				
ALL SIGNATURES	IN FILE	YES NO		
DATES OF APPROV	AL OFFICER SITE	/ISITS		
August 8, 2024				
CORRESPONDENC Date deeming letters sen	E WITH MUNICIPAL August 13, 20		RRAL AGENCIE	s
Municipality:	Leduc County			
	response received	written/email	☐ verbal	no comments received
Alberta Health Service	s: N/A			
☐ letter sent	\square response received	☐ written/email	☐ verbal	☐ no comments received
Alberta Environment a	nd Parks:			
✓ letter sent	☐ response received	☐ written/email	☐ verbal	no comments received
Alberta Transportation	ı: 🗆 N/A			
letter sent	☐ response received	☐ written/email	☐ verbal	no comments received
Alberta Regulatory Ser	vices:			
☑ letter sent	☐ response received	☐ written/email	√ verbal	no comments received
Other:			🗆 1	J/A
☐ letter sent	☐ response received	☐ written/email		no comments received
Li letter sent	☐ response received	□ written/email	Li verbai	ino comments received
Other:			D	I/A
☐ letter sent	☐ response received	☐ written/email	□ verbal	no comments received



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 description / name (as indicated on site plan)	1. Freestall Barn
	2
	3

Manure storage capacity (use one row in the table for EACH in-barn storage. Attach additional pages if you require more rows) NRCB USE ONLY Depth below ground Length (m) Width (m) Total depth (m) level (m) Calculated storage capacity (m3) 1. 51 125 cross over pit to 1 manure pit9mx9mx3m 2. 3. TOTAL CAPACITY 243 m3. Manure pit

oncrete liner details				
Scrape alleys or unslatted portions of	Concrete thickness		Method of sulph	T 50 or Similar
barn floors (if applicable)	Concrete strength 30 mpa			rement size and spacing
The second second	Concrete thickness		Method of sulph	ate protection
	6 inch		T :	50
In-barn manure pit floors	Concrete strength		Concrete reinfor	cement size and spacing
	32 mpa		18"	
	Concrete thickness		Method of sulph	ate protection
In-barn manure pit	6 inch		T	50
walls	Concrete strength	Horizontal reinfo	prcement size	Vertical reinforcement size and spacing
	32 mpa	18"		(8)



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 (cont.)

Describe how the joints at the junction of the pit walls, pit floors and any other joints will be sealed

escribe sealing practices for piping, etc. that p	enetrates the liner		
Silkaflex or sin	nilar		
	NF	RCB USE ONLY	
oncrete requirements can be found in Technical Guidelli uideline minimums: olid manure: 25MPa (D) olid manure (wet): 30MPa (C) quid manure: 32MPa (B) ategory A is required to be engineered ethod of sulphate protection: upe 50 or Type 10 with fly ash or equivalent	ne Agdex U96-93	Requirements met: Condition required:	YES NO
ditional information		a market mark	
		and the second second	
quid manure storage volume calculator attach	ed: YES NO	Requirements met	VES I NO
quid manure storage volume calculator attach		Requirements met:	YES NO
quid manure storage volume calculator attach epth to water table: >6 m	ed: ☐ YES ☑ NO 27.48 m	Requirements met:	YES NO
quid manure storage volume calculator attach epth to water table: >6 m			
epth to uppermost groundwater resource:			
quid manure storage volume calculator attach epth to water table: >6 m			
quid manure storage volume calculator attach epth to water table: >6 m epth to uppermost groundwater resource:			
quid manure storage volume calculator attach epth to water table: >6 m epth to uppermost groundwater resource: RST completed: see ERST page for details	27.48 m		

Last updated February 26, 2021

