# Technical Document RA22002 Part 2 — Technical Requirements



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or

	Application number	122	1.12-2.4
★ Approval ☐ Registration ☐ Authorization	RA22002		I land description -45-20 W4M
☐ Amendment		<u> </u>	-4J-2U VV4W
APPLICATION DISCLOSURE			
his information is collected under the authority of the Agrovisions of the Freedom of Information and Protection of Information and Protection of Information and Protection of Information and Protection of Information and Information	or Filvacy Act. This information	is public unless	the NRCB grants a
ny construction prior to obtaining an NRCB permit rosecution.		4 4	
the applicant, or applicant's agent, have read and unde rovided in this application is true to the best of my know	rstand the statements above, a ledge.	and I acknowledg	e that the information
Oct 26,2021			
rate of signing	Signature		
R+T PENNER FARMS L7 orporate name (if applicable)	D. Rylan Print name	Penner	
ENERAL INFORMATION REQUIREMENTS	9		
Proposed facilities: list all proposed confined feeding of	peration facilities and their dir	nensions. Indicat	e whether any of the
proposed facilities are additions to existing facilities. (atternoonsed facilities	ach additional pages if needed	)	Dimensions (m)
Poultry Barn (barn t	:hree)	ft 316 x	f+ 50
		96.3 m	x 15.2 m
			*, ,
	* 12 2 2 2	THE STATE OF THE S	
existing facilities: list ALL existing confined feeding op	eration facilities and their dime	ensions	
existing facilities	Dimensi (length, widtl	h, and depth)	NRCB USE ONLY
	orn and feet to	cet	C4 40 0
- Tourry Barn	200 x 4	0	61 m x 12.2 m
- Tourry Barn	parn two) $\frac{200 \times 400}{316 \times 500}$	Cet Co O	96.3 m x 15.2 m



Existing facilities continued		Dimensions (m) (length, width, and depth)	NRCB USE ONLY
		NA	
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			10.00
7			
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	8 8 8 99		
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	e <sup>4</sup> .		
	e <sub>s</sub>		

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NIDCD	N	atu	re	ıI	Re	SO	urc	es
NRCB	C	ons	eı	·v	ati	on	Bo	arc
	1. 1.							

meet ratemey is	replacing an	old facility, pleas	e explain w	hat will hap	pen to the	old facility	and when.	N/A
i i	· · · · · · · · · · · · · · · · · · ·			1 11 1		r u B		
			v	* ************************************		, i	5	
	a.			D.			65 65	
struction comp	oletion date fo	or proposed facilit	iles	Dec.	26	2024		
itional informa				\$ 20. 20.		3.50		
₽)						18		
0					*			a a
					ali .	8		
					et e			
stock numbers in	ncrease in you	r Part 2 application,	a new Part 1	rent from wh Lapplication r	at was ident nust be subi	ified in the Pa	rt 1 applicat mav result i	tion. Note: if
ority for minimur <b>Livesto</b> c	n distance sep ck category a Schedule 2 of t	r Part 2 application, aration (MDS).	a new Part 1	rent from whit application read number	Proposed decreas	nitted which d increase o	may result i	tion. Note: if n a loss of <b>Total</b>
ority for minimur <b>Livestoc</b>	n distance sepa ck category a	r Part 2 application, aration (MDS). nd type	a new Part 1	Lapplication r	Proposed decreas	nitted which	may result i	n a loss of
ority for minimur <b>Livestoc</b>	n distance septick category a Schedule 2 of the Regulation	r Part 2 application, aration (MDS). nd type	a new Part 1	Lapplication r	Proposed decreas	nitted which d increase o	may result i	n a loss of
Livestoc vailable in the S	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoc vailable in the S	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS). nd type the Part 2 Matters	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See The Part 1 ap	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See The Part 1 ap	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See The Part 1 ap	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Livestoo Available in the S See	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoo Available in the S See	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of
Livestoc Available in the S See The Part 1 ap	n distance sepock category a Schedule 2 of t Regulation)  Part	r Part 2 application, aration (MDS).  nd type the Part 2 Matters  / roposes an incl	Permitte	ed number	Proposed decreas (if ap	nitted which d increase o e in number plicable)	may result i	n a loss of



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

### 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

<u>OP</u>	ION 1: Applying through the	NRCB for both the AO	PA permit and the	Water Act li	cence	
100	I <b>DO</b> want my water licence a		AOPA permit applicat	tion.		. 1
Sigr	ned thisday of	, 20,		Sic	nature of Applic	ant or Agont
-					griature or Applic	ant of Agent
OP	TION 2: Processing the AOPA	permit and Water Act	licence separately	<u> </u>		W
Τ.	I (we) acknowledge that the C proposed in this AOPA applicat	ion.				
2.	I (we) request that the NRCB   water licence.	process the AOPA applicat	tion <b>independently</b>	of AEP's proc	cessing of the CF	O's application for a
3.	In making this request, I (we) considered by AEP as improving	recognize that, if this AO g or enhancing the CFO's	PA application is gra	anted by the N	RCB, the NRCB's	decision will not be
4.	I (we) acknowledge that any c	onstruction or actions to p	populate the CFO wi	th livestock pr	ursuant to an AC	PA permit in the
5.	absence of a <i>Water Act</i> licence I (we) acknowledge that any sapplication is denied or if the control of the co	uch construction or livest peration of the CFO is otl	ock populating will be herwise deemed to b	oe at the CFO's oe in violation	s sole risk if the of the <i>Water Ac</i> i	Water Act licence
	being required to depopulate t in the <i>Water Act</i> ).	ne CFO and/or to cease for	urther construction,	or to remove	"works" or "unde	ertakings" (as defined
6.	<b>AS RELEVANT:</b> I (we) acknow Bow, Oldman and South Saska	ledge that the CFO is locatchewan River Basin Wat	ated in the South Sa er Allocation Order I	skatchewan R	River Basin and t	hat, pursuant to the
	to new surface water allocation	is.		inter Reg. 17.	1/200/ j, tills bus	in is currently closed
Sign	ed this <u>16</u> day of <u>Octob</u>	er, 2021.	-			
					Signature of Ap	plicant or Agent
	I (we) declare that the CFO will in this AOPA application.  The declared this day of		from AEP under the	Water Act for	the developmen	t or activity proposed
5.				:	Signature of Ap	plicant or Agent
<u>OP1</u>	TON 4: Uncertain if Water Ac	t licence is needed; acl	knowledgement o	f risk (for ex	isting CFOs on	<u>(v)</u>
1.	At this time, I (we) do not kno activity proposed in this AOPA	w whether a new water in	cence is needed from	n AEP under t	ne <i>water Act</i> for	the development or
2.	If a new Water Act licence is ne processing of the CFO's applica	eded, I (we) request tha	t the NRCB process	the AOPA app	lication indeper	idently of AEP's
3.	In making this request, I (we) considered by AEP as improvin	recognize that, if this AO	PA application is gra	inted by the N	RCB, the NRCB's	decision will not be
4.	I (we) acknowledge that any c	onstruction or actions to p	populate the CFO wi	th additional li	ivestock pursuar	it to an AOPA permit
	in the absence of a Water Act I application, if a new water lice		nt to AEP's considera	ation of wheth	er to grant my M	Vater Act licence
5.	I (we) acknowledge that any s application is denied or if the obeing required to depopulate to the Water Act).	peration of the CFO is oth	nerwise deemed to b	e in violation	of the Water Act	. This risk includes
6.	AS RELEVANT: I (we) acknow Bow, Oldman and South Saska to new surface water allocation	tchewan River Basin Wate	ated in the South Sa er Allocation Order [	iskatchewan R Alta. Reg. 171	liver Basin and the 1/2007], this bas	hat, pursuant to the sin is currently closed
	to new surface water anocación	<b>3.</b>	4 W 10 1		* *.	
Sign	ed this day of	20				

Signature of Applicant or Agent



NRCB USE ONLY						
ALL SIGNATURES 1	IN FILE	XYES [	ONC			
DATES OF APPROV	AL OFFICER SITE V	ISITS				
October 26, 2021						
CORRESPONDENCE	WITH MUNICIPAL	TTIES AN	ID DEEEDDAL	ACENCI	EC	
	January 18, 2022	TITES AN	ND REFERRAL	AGENCI	ES	
Municipality: Camro	se County			_		
■ letter sent	response received	writter	n/email	   verbal		no comments received
Alberta Health Services	::					
letter sent	I response received	× writter	n/email	verbal		no comments received
Alberta Environment ar	nd Parks:					
letter sent	response received	writter	n/email	verbal		no comments received
Alberta Transportation:	: 🗖 N/A					
☐ letter sent	response received	☐ writter	n/email	verbal		no comments received
Alberta Regulatory Serv	vices: N/A					
☐ letter sent	response received	☐ writter	n/email	verbal		no comments received
Other:				🛚	] N/A	
☐ letter sent	☐ response received	☐ writter	n/email	verbal		no comments received
Other:				X	] N/A	
☐ letter sent	☐ response received	☐ writter	n/email	verbal		no comments received

5W-28-45-20 WH

124

1 North

5w-28-45-20-WH

ww B

ww A

AEP ww 232206

6

[] Manure Storage

Shop

BARNT

AEP ww 295018

NEW BARN 3

BARNZ

ugnols

Google Earth

# NRCB Natural Resources

# Part 2 - Technical Requirements

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

GENERAL ENVIRONMENTAL INFORMATION

Proposed 2:

(complete this section for the Facility description / nar	Existing:
he worst case of the existing facility which is the close (as indicated on site plan).	$B_{arg}$ ( , $\lambda$ (incl manure pad)
est to water bodies or water w	Proposed 1:
vells and for each of the pro	(3000 Z
osed facilities)	

Proposed 1: Proposed 3:

NRCB USE ONLY	Comments	not in known flood plain	none observed or reported	four water wells are on site, see further comments on	Barn three is the closest to the slough west of range ro	204 (aprox 114 m away)	16.5 m based on AEP wws 232205 and 295018
	Meets		X YES NO YES with exemption	J NO h	] NO h	LX YES INO TES with exemption	I NO.
	Proposed 3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Facilities	Proposed 2	\   \   \   \   \					
Facil	Proposed 1	>1 m	()	n	150	3. melers	19,5 metevs
	Existing		0	$\sim$	150 meters	3 melem	19.5 Meters
Facility and environmental risk	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?	How many springs are within 100 m of the manure storage facility or manure collection area?	How many water wells are within 100 m of the manure storage facility or manure collection area?	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	What is the depth to the water table?	What is the depth to the groundwater resource/aquifer you draw water from?
Facilii	·	Flood plain noitsmrothi	· %	irface wa		dwater noiten	

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



**View in Imperial Export to Excel** 

GIC Well ID GoA Well Tag No. 232204

Drilling Company Well ID 1979/01/05

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.

SOWIND										Date Report Rec	civeu 131	3/01/03
Well Ident	ification and L	ocation									Measu	ement in Metric
Owner Nam PENNER, C			Address P.O. BOX	43 NEW N	ORWAY	Town			Province	Countr	У	Postal Code
Location	1/4 or LSD 5	SEC 28	<i>TWP</i> 45	RGE 20	W of MER 4	Lot	Block	Plan	Additio	nal Description		
Measured t	from Boundary o	of			GPS Coordin	ates in Dec	imal Degre	es (NAD 83	)			
		m from			Latitude 5	2.907120	Longi	tude -112.8	355206	Elevation	725.42 m	<u> </u>
		m from			How Location	n Obtained				How Elevation (	Obtained	
					Мар				l	Estimated		

**Drilling Information** Method of Drilling Type of Work New Well Rotary Proposed Well Use Domestic & Stock Yield Test Summary Measurement in Metric

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
12.19		Clay	
18.29		Sand	
22.86		Gravel	
27.43		Shale	
33.53		Sandstone	
45.72		Shale	
57.91		Sandstone	
60.96		Shale	

Recommended F	Recommended Pump Rate0.00 L/min						
Test Date	Water F	Removal Rate (	L/min)	Static Water Level (m)			
1978/10/29	13.64 12.19						
Well Completion					Measureme		1etric
Total Depth Drille	ed Finisi	hed Well Depth					
60.96 m			1978	/10/25	1978/	10/29	
Borehole							
Diameter (	cm)	From 0.0			To (n 60.9		
Surface Casing Steel	(if applic		Well Ca Steel	asing/Li		0	
		14.12 cm			D: 11.4		
Wall Thickness	: (	).396 cm	Wall 7	hicknes	s : 0.60	35 cm	
Bottom at					at : 0.0		
			E	Bottom a	at: 60.9	96 m	
Perforations							
	Diameter or Slot Width From (m) To (m) (cm)			Slot Length (cm)		lot cm)	
42.67	50.96	0.635			12.70		
	Oriven 0.0	00 m to		9 m_			
Other Seals							
	Туре		At (m)				
Screen Type		0.00 cm					
From (m		To	(m)		Slot Size	(cm)	
Trom (m	)	101	(111)		SIUL SIZE	(CIII)	
Attachmen	t						
				m Fitting	gs		_
Pack							
Туре			Grain	Size			
Amount							

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well  ${\tt UNKNOWN\ NA\ DRILLER}$ 

Company Name

SCHMIDT DRILLING LTD.

Certification No

Copy of Well report provided to owner Date approval holder signed



**GOWN ID** 

### **Water Well Drilling Report**

The driller supplies the data contained in this report. The Province disclaims responsibility for its

accuracy. The information on this report will be retained in a public database

**View in Imperial Export to Excel** 

GIC Well ID 232 GoA Well Tag No.

Drilling Company Well ID
Date Report Received

1979/01/05

Well Identification and Location Measurement in Metric Owner Name Address Town Province Country Postal Code PENNER, JAMES P.O. BOX 43 NEW NORWAY 1/4 or LSD TWP W of MER SEC RGE Block Additional Description Location Lot 5 28 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Elevation \_ Latitude 52.907120 Longitude -112.855206 725.42 m m from How Location Obtained How Elevation Obtained m from Estimated Additional Information Measurement in Metric Distance From Top of Casing to Ground Level cm Is Artesian Flow Is Flow Control Installed Rate Describe Recommended Pump Rate 0.00 L/min Pump Installed Depth m Recommended Pump Intake Depth (From TOC) 57.91 m H.P. Model (Output Rating) m Well Disinfected Upon Completion Did you Encounter Saline Water (>4000 ppm TDS) Depth m\_\_\_\_ Depth Geophysical Log Taken Gas \_\_\_\_\_ Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well WATER IS SOFT. Yield Test Taken From Ground Level Measurement in Metric Depth to water level Test Date Start Time Static Water Level Pumping (m) Elapsed Time Recovery (m) 1978/10/29 12:00 AM 12.19 m Minutes:Sec Method of Water Removal Type Air 13.64 L/min Removal Rate 60.96 m Depth Withdrawn From If water removal period was < 2 hours, explain why Water Diverted for Drilling Water Source Amount Taken Diversion Date & Time

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name SCHMIDT DRILLING LTD. Certification No

1

Copy of Well report provided to owner Date approval holder signed



**View in Imperial Export to Excel** 

GIC Well ID GoA Well Tag No.

232205

Drilling Company Well ID 1983/07/15

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.

COWNID										Date Report Receive	eu 1903/01/13
Well Iden	tification and L	ocation									Measurement in Metric
		Address P.O. BOX	Address Town P.O. BOX 97 NEW NORWAY					Province Country		Postal Code T0B 3L0	
Location	1/4 or LSD 5	SEC 28	<i>TWP</i> 45	RGE 20	W of MER 4	Lot	Block	Plan	Additio	nal Description	
Measured	from Boundary o	of			GPS Coordir	nates in Dec	imal Degre	es (NAD 83 <sub>)</sub>	)		
		m from			Latitude 5	2.907120	Long	itude <u>-112.8</u>	355206	Elevation	m
		m from			How Location	n Obtained				How Elevation Obta	ained
					Мар					Not Obtained	

**Drilling Information** Method of Drilling Type of Work New Well Rotary Proposed Well Use Domestic & Stock Yield Test Summary

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
4.57		Sand	
16.46		Clay	
21.34		Gravel	
27.43		Shale	
30.48		Gray Sandstone	
43.28		Shale	
45.72		Gray Sandstone	
51.82		Shale	
54.86		Gray Sandstone	
70.10		Shale	
74.68		Gray Sandstone	
79.25		Shale	

Yield Test Summary Measurement in Metri										
Recommended	d Pump Ra	te 0.0	00 L/min	l						
Test Date	Water I	Removal Rate (	L/min)	St	tatic Water Lev	/el (m)				
1983/05/25		27.28	12.19							
Well Comple	tion				Measureme	nt in Metric				
Total Depth Dr	rilled Finis	hed Well Deptl		Start Date End Date						
79.25 m			1983	/05/24	1983/0	5/25				
Borehole										
	(cm)		n (m)		To (m					
0.00		0.			79.25					
Surface Casing (if applicable) Well Casing/Liner Steel										
Size C	)D :	14.12 cm		Size O	D: 0.0	0 cm				
Wall Thickne	ss: (	0.478 cm	Wall 7	hicknes	s: 0.00	0 cm				
Bottom	at: 2			Тор а	at : 0.0	0 m				
			I	Bottom a	at: 0.0	0 m				
Perforations										
		Diameter or	Class		Hala av Cl					
From (m)	To (m)	Slot Width (cm)		ength n)	Hole or Slo Interval(cr					
		(6)	(6.	,	21110111011	,				
Perforated by										
,										
Annular Seal	0.4	20 /	0.00							
		00 m to		) m						
			_							
Other Seals	T		1		At ()					
	Type				At (m)					
C T										
Screen Type	١٠.	0.00 am								
	D:		, ,		01.0	, ,				
From (	(m)	10	(m)		Slot Size (	(cm)				
Attachme	ent									
			Botto	m Fitting	gs					
Pack										
Туре			Grain	Size						
Amount	0.00									

(	Con	tract	or	Cer	tific	atı	on

Name of Journeyman responsible for drilling/construction of well  ${\bf UNKNOWN\ NA\ DRILLER}$ 

Company Name J & R DRLG

Certification No

Copy of Well report provided to owner Date approval holder signed



**View in Imperial Export to Excel** 

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

232205

GOWN ID	)
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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		а	couracy. The init	Jimation o	it tills report will be i	retaineu iii a p	Jubiic databas			Date Report Recei	ved	1983/07/15
Well Identifica	tion and L	_ocation									Mea	asurement in Metri
Owner Name PENNER, JAME	S		Address P.O. BOX 9	7 NEW N	IORWAY	Town			Province	Country		Postal Code T0B 3L0
Location 1/4	4 or LSD	SEC 28	<i>TWP</i> 45	RGE 20	W of MER 4	Lot	Block	Plan	Additio	nal Description		
Measured from		of m from m from			GPS Coordir Latitude 5 How Location Map	2.907120	•			Elevation How Elevation Ob Not Obtained		m
Additional Info	rmation										Mea	asurement in Metri
Distance From Is Artesian Flo Ra					cm	I	's Flow Con	trol Installed Describe				
Recommended Recommended			(From TOC)		0.00 L/mir 19.81 m					Depth	m H.P.	
Additional Co		n Well	G	as	Depth	1			Submitted to			) ESRD
Yield Test								Tak		Ground Level th to water level	Mea	asurement in Metri
Test Date 1983/05/25		Start Tim 12:00 AN		Stat	tic Water Level 12.19 m		Pum	nping (m)	E	Elapsed Time Minutes:Sec	F	Recovery (m)
Method of Wal Remo Depth Withdra If water remova	Type Foval Rate wn From	Pump		У		_						
Water Diverted	d for Drilli	ng										
Water Source				An	nount Taken L				Diversio	on Date & Time		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name J & R DRLG

Certification No

Copy of Well report provided to owner

Date approval holder signed

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Yield Test Summary

**View in Imperial Export to Excel** 

232206

GIC Well ID GoA Well Tag No. Drilling Company Well ID Data Papart Pagaiyad

1000/00/20

Measurement in Metric

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.

OWN ID										Date Report Received	1986/09/28
Well Ident	ification and L	ocation								M	Measurement in Metri
Owner Name Address PENNER, JAMES P.O. BOX 97 NEW NO				Town ORWAY			Province Country		Postal Code T0B 3L0		
Location	1/4 or LSD SW	SEC 28	<i>TWP</i> 45	RGE 20	W of MER 4	Lot	Block	Plan	Additior	nal Description	
Measured t	Measured from Boundary of m from					GPS Coordinates in Decimal Degrees (NAD 83)  Latitude 52.905312 Longitude -112.852214				Elevation	m
	-	m from			How Location	n Obtained	_			How Elevation Obtaine	ed

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

Formation Log			Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description	
3.66		Sand	
18.90		Clay	
21.03		Gravel	
21.64		Sand	
22.86		Gravel	
23.47		Sand & Shale	

Recommended F	Pump Rate	959.1	0 L/min	_				
Test Date	Water R	emoval Rate (L	_/min)	St	atic Wa	ater Level (m)		
1988/09/14		59.10		12.80				
Well Completion					Meas	urement in N	<b>Metric</b>	
Total Depth Drille	ed Finish	ed Well Depth						
23.47 m			1988/09/14 1988/09/14					
Borehole								
Diameter (0	cm)	From 0.0			To (m) 23.47			
Surface Casing	(if annlic		Well Ca	sina/l i	nor	23.47		
Steel	(п аррпс	abie)	Wen oa	isiriy/Li	Hei			
Size OD	: 1	4.12 cm		Size O	D :	0.00 cm		
Wall Thickness	: 0	.478 cm	Wall T	hicknes	s:	0.000 cm		
Bottom at	: 2	1.64 m		Тор а	at :	0.00 m		
			Ε	Bottom a	at :	0.00 m		
Perforations		n: .						
		Diameter or Slot Width	Slot Le	ength	Но	le or Slot		
From (m) To	o (m)	(cm)	(cn			erval(cm)		
	0.0	e 0 m to		ŀ m_				
Other Seals								
	Type		At (m)					
Screen Type S								
	:							
From (m	)	To (	m)		Slo	ot Size (cm)		
Attachment	Attached	d To Riser						
		ne (Figure	Bottom Fittings Plug					
Pack								
Туре			Grain Size					
Amount	0.00							

1	Con	tract	or (	Cer	tifica	atic	n

Name of Journeyman responsible for drilling/construction of well  ${\tt UNKNOWN\ NA\ DRILLER}$ 

Company Name

SCHMIDT DRILLING LTD.

Certification No

Copy of Well report provided to owner Date approval holder signed



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

### **View in Imperial Export to Excel**

GIC Well ID GoA Well Tag No.

232206

Drilling Company Well ID Date Report Received

OWN ID		ac	curacy. The ini	omation on	i tilis report will be	retained in a j	Jubiic databa			Date Report Rece	eived	1988/09/28
Well Ident	tification and l	Location									Me	easurement in Metri
Owner Nar PENNER,			Address P.O. BOX 9	7 NEW N	ORWAY	Town			Province	Country	/	Postal Code T0B 3L0
Location	1/4 or LSD SW	SEC 28	TWP 45	RGE 20	W of MER 4	Lot	Block	Plan	Additio	nal Description		
Measured i	from Boundary	of m from m from			GPS Coordi Latitude <u>!</u> How Locatio Map	52.905312	•			Elevation How Elevation C		
Additional	Information										Me	easurement in Metri
Distance I Is Artesia	From Top of Cas an Flow Rate				cm	ı	ls Flow Con	trol Installed Describe				
	ended Pump Ra	te	,		59.10 L/mi 17.68 m					Depth	H.P.	
Addition	nal Comments c			OS) Gas		h h	<u>m</u>	Geo	physical Log Submitted to	o ESRD		to ESRD
WATER IS								Tak		Ground Level	Ме	easurement in Metri
Test Date 1988/09/1		Start Time 12:00 AM		Stati	c Water Level 12.80 m		Pun	nping (m)		Elapsed Time Minutes:Sec		Recovery (m)
l Depth Wi	f Water Remov Type 1 Removal Rate 1 thdrawn From 1 moval period wa	Air 5	0.00 m	у		_						
Water Div	erted for Drilli	ing										
Water Sou	rce			$\Delta m$	ount Taken				Diversion	n Date & Time		

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name SCHMIDT DRILLING LTD.

Copy of Well report provided to owner

Certification No

Date approval holder signed



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### **View in Imperial Export to Excel**

GIC Well ID 299 GoA Well Tag No.

295018

Drilling Company Well ID
Date Report Received 2000/09/27

GOWN ID

GOWN ID									Da	te Report Received	2000/09/27
Well Ident	ification and L	ocation									Measurement in Metric
Owner Nan PENNER,			Address P.O. BOX	97 NEW N	ORWAY	Town			Province	Country	Postal Code T0B 3L0
Location	1/4 or LSD SW	SEC 28	<i>TWP</i> 45	RGE 20	W of MER 4	Lot	Block	Plan	Additional	Description	
Measured t		m from m from			GPS Coordin Latitude <u>5</u> How Location	2.905312	•	es (NAD 83 tude112.8	352214 E	levation ow Elevation Obtain	m ned
					Мар				lν	ot Obtained	

Drilling Information

Method of Drilling
Rotary
Proposed Well Use
Domestic

Type of Work
New Well

Yield Test Summary
Measurement in Metric

Formation Log		Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
6.71		Light Brown Till
10.36		Gray Till & Clay
10.97		Gray Very Fine Grained Sand
19.51		Gray Till & Clay
23.77		Gravel

rieid rest Suilli	•				Measur	ement in iv	neti ic
Recommended Pu	ump Rate	45.4	6 L/min				
		moval Rate (I	_/min)	St		er Level (m)	
2000/08/06		45.46			14	.02	
Well Completion	1				Measur	ement in M	/letric
Total Depth Drilled	d Finishe	d Well Depth	Start	Date	E	nd Date	
23.77 m			2000/	08/06	20	000/08/06	
Borehole							
Diameter (cr	n)	From	(m)			o (m)	
0.00		0.0				23.77	
Surface Casing ( Plastic			Well Ca	asing/Li	ner		
Size OD:						0.00 cm	
Wall Thickness:			Wall 7	hicknes	s:	0.000 cm	
Bottom at :	22.	25 m		Тор а	nt :	0.00 m	
			E	Bottom a	nt:	0.00 m	
Perforations							
From (m) To	9	ameter or Slot Width (cm)		ength n)	Hole (	or Slot val(cm)	
Other Seals	0.00		22.25 -	5 m_	At (m)		
	Турс				Αι (111)		
Screen Type St Size OD :	11.	43 cm					
From (m)		To (				Size (cm)	
22.25 Attachment	Tologoon	23.	//			0.038	
Top Fittings			Potto	m Eittina	s Plug		
· · · · · · · · · · · · · · · · · · ·	rackei		DUILUI	ii Filulig	o Flug		-
Pack				0.1			
Type Natural			Grain	Size		_	
Amount							

Contractor	Certification

Name of Journeyman responsible for drilling/construction of well

UNKNOWN NA DRILLER

Company Name SCHMIDT DRILLING LTD. Certification No

1

Copy of Well report provided to owner Date approval holder signed



Well Identification and Location

1/4 or LSD

Type Air

If water removal period was < 2 hours, explain why

Removal Rate

Depth Withdrawn From

SW

Address

TWP

45

45.46 L/min

21.34 m

SEC

28

P.O. BOX 97 NEW NORWAY

RGE

### **Water Well Drilling Report**

**View in Imperial Export to Excel** 

GIC Well ID GoA Well Tag No.

295018

GOWN	IL
Cacavvia	ш

Owner Name

Location

PENNER, JAMES

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.

is report will b	e retained in a pu	blic database	9.	.,	Drilling Company We Date Report Receive	
						Measurement in Metric
WAY	Town			Province	Country	Postal Code T0B 3L0
W of MER	Lot	Block	Plan	Additio	onal Description	
GPS Coor	dinates in Decir	nal Degree	s (NAD 83	3)		
Latitude	52.905312	Longit	ude <u>-112.8</u>	352214	Elevation	m

Measured from Bou	ndary of m from m from		es in Decimal Degre 905312 Long Obtained		4 Elevation How Elevation Not Obtained	
Additional Informa	ation					Measurement in Metric
	of Casing to Ground Level	cm	Is Flow Cor	ntrol Installed		
Recommended Pur	mp Rate	45.46 L/min	Pump Installed			m
Recommended Pui	mp Intake Depth (From TOC)	21.34 m	Туре	Ma	Model (Outpu	H.Pt Rating)
Did you Encounte	er Saline Water (>4000 ppm TDS) Gas		m m	Geophysi	d Upon Completion ical Log Taken nitted to ESRD	
Additional Comm	nents on Well 'S DISTANCE FROM TOP OF CA	ASING TO GROUND LEVE		ollected for Potabl	ility St	ubmitted to ESRD
Yield Test				Taken F	From Ground Level	Measurement in Metric
Test Date	Start Time	Static Water Level			Depth to water level	
2000/08/06	12:00 AM	14.02 m	Pun	nping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water F	Removal				1:00 2:00	18.00 16.00

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

SCHMIDT DRILLING LTD.

Certification No

Copy of Well report provided to owner

3:00

4:00

5:00

Date approval holder signed

15.50

15.32

15.20



NRCB USE ONLY WATER WELL AND SURFACE	WATER INFORMATI	ON	
Well IDs: 232204, 23220	05, 232206 and 29501	8	
I was unable to do	etermine whether the sk screening purposes		nd B on page 7 are 232204 se scenario of both.
Surface water related concerns from di	rectly affected parties or refe	erral agencies:	🗆 yes 🔼 no
Groundwater related concerns from dir	ectly affected parties or refe	rral agencies:	🗆 yes 🔼 no
Water wells			
If applicable, exemption for 100 m dist	ance requirements applied:	X YES NO Condition	required: YES NO
Surface water X N/A			
If applicable, exemption for 30 m dista	nce requirements applied:	YES NO Condition	required: YES NO
Water Well Exemption Screening T	ool 🗆 N/A		
Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility
water well 295018	10, continue	18	Barn 3
water well 293016	TO, CONTINUE	10	Daili 3
A risk score of 18 in the second	nd screening is indica	tive of an exemption	being more likely.
The risk screening result for		discussed Appendix	C of
Decision Summary RA22002			
Groundwater or surface water rela	ted comments:		

**ENVIRONMENTAL RISK SCREENING INFORMATION** 

NRCB USE ONLY



RST related comments: The manure storage pad is manure storage facility sotential risk to surface water and groundwater when the manure storage pad is manure storage facility sotential risk to surface water and groundwater when the manure storage storage and storage facility sotential risk to surface water and groundwater when the manure storage storage and storage facility so the storage storage and storage storage facility so the storage storage and storage storage facility storage stora	Low  Surface water score  Low	File number RA22002
Facility Groundwater score  Manure storage pad Low  RST related comments:  the manure storage pad is manure storage facility otential risk to surface water and groundwater who		
Facility Groundwater score  Manure storage pad Low  RST related comments:  the manure storage pad is manure storage facility otential risk to surface water and groundwater who		
Facility Groundwater score  Manure storage pad Low  RST related comments:  the manure storage pad is manure storage facility otential risk to surface water and groundwater who		
Facility Groundwater score  Manure storage pad Low  RST related comments:  he manure storage pad is manure storage facility otential risk to surface water and groundwater where the storage of the stora		
Facility Groundwater score  Manure storage pad Low  RST related comments:  he manure storage pad is manure storage facility otential risk to surface water and groundwater where the storage of the stora		
Facility Groundwater score  Manure storage pad Low  RST related comments:  he manure storage pad is manure storage facility otential risk to surface water and groundwater where the storage of the stora		
Manure storage pad  Low  RST related comments: The manure storage pad is manure storage facility otential risk to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the storage is to surface water and groundwater where the surface water and groundwater water wa		
RST related comments: The manure storage pad is manure storage facility otential risk to surface water and groundwater wh	Low	RA22002
he manure storage pad is manure storage facility otential risk to surface water and groundwater wh		
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he manure storage pad is manure storage facility otential risk to surface water and groundwater wh		
otential risk to surface water and groundwater wh		
otential risk to surface water and groundwater wh	at this CFO which pre	esents the highest
the manure storage and not beginn a rest such	•	
the manure storage pad not having a roof over i		
omparison have concrete floors and roof cover. T		
sk to both surface water and groundwater, therefo ose a lower potential risk to surface water and gro		
ee the Approvals Policy, section 8.13.		



NRCB USE ONLY					
MINIMUM DISTANC	E SEPARATION				
Methods used to determine	e distance (if applicable	Scaled air p	hoto from Goo	gle Earth (	dated October 2021)
Margin of error (if applicab	le):				
Requirements (m): Catego	ry 1: 198	Category 2: <u>265</u>	Category 3:	331	Category 4: <u>529</u>
Technology factor:				☐ YES 🛚	NO
Expansion factor:				☐ YES 🏻	NO
MDS related concerns from	directly affected partie	es or referral agenci	es:	☐ YES 🛚	NO
LAND BASE FOR MA	NURE AND COME	POST APPLICA	TION		
Land base required:	376.2 ac or 152.3	3 ha (black)			
Land base listed:	430 ac (black)	_			
Area not suitable:	see comments of	n pages 21 an	d 22		
Available area	154 ha	_	Requirement met	t: 🔽 YES 🗆	NO
Land spreading agreement	s required: 🔼 YI	ES 🗆 NO			
Manure management plan:	☐ YI	ES 🛛 NO	If yes, plan is at	tached:	
PLANS					
Submitted and attached co	nstruction plans:	🛚 YES 🗆 NO			
Submitted aerial photos:		X YES NO			
Submitted photos:		☐ YES 🛚 NO			
GRANDFATHERING					
Already completed:		☐ YES 🗵 NO	□ N/A		
If already completed, see _	A determination i	s being made a	as part of this o	decision,	
	see Decision Sur				

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

				INCO COLCI	
Neighbour name(s)	Legal land description	Distance (m)	Zoning MDS (LUB) category (1-4)	Distance Waiver attached (if remining)	Meets   regulations
Harvey Megli	NE 20 45 20	850 m	- T	1,010 n/a	Yes
Scott Keller	NW 21 45 20	900 in	Agricultura 1	e/u 008	Yes
James Penner	SE 28 45 20	NO 900 M	Agricultural 1	820 n/a	Yes

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

				NRCB USE ONLY	
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area Agreement attached (ha) (if required)	
				See comments on previous and	
				following pages	
	Time and the second of the sec				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	and the second s				
		100 mg - 100			
			Total		

<sup>\*</sup> If you are not the registered landowner, you must attach copies of land use agreements signed by all landowners.

Additional information (attach any additional information as required)

<sup>\*\*</sup> Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading Regulations)

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

	Manure Spreadin	g Agreement	
This agreement is between	Rylan Pen	ney	, manure producer, and
James Penner  Length of agreement: This agree  (minimum of one year after a deci	ement is valid for a tir	me period of $2$	1801/5
Legal land location	Soil type <sup>1</sup>	Acres s	suitable for manure
NE 17 45 20	Black		60 ha available
-			
<sup>1</sup> Soil type choices: Dark brown and brow <sup>2</sup> Land within required setbacks from water			uded.
Other comments:			
Manure producer (Confined Feed	ing Operation) Legal	Land Location SW-	29-45-20-W4
Jan 13 Date of signing Signature	Ry Print r	Lan Penney	R+T Penner Farm Corporate name(if appl)
Manure Receiver – Landowner(s)	3		
Jan 13 Date of signing  Agrandation  Agranda	<u>Jan</u> Print r	n <i>es Pennet</i> name	Corporate name(if appl)

Print name

Date of signing

Signature

<sup>3</sup> All registered owners of land, or authorized signing authorities must sign.

Corporate name(if appl)

Ma	nure	Spread	ding A	greemen
----	------	--------	--------	---------

This agreement is between	Mylan ren	NEV	, manure producer, and
O/D			
Rylan Penn	?v	manure receiver.	
langth of agraement: This agrae	omont is valid for a ti	ima pariad of	100 = 6
Length of agreement: This agree (minimum of one year after a dec			YOWI
(minimum of one year after a dec	ision on the applicat	ion is issued).	
Legal land location	Soil type <sup>1</sup>	Acre	es suitable for manure
		ris .	eading <sup>2</sup>
NIW-10-45-20	Black		15O 54.5 ha av
5W-28-45-20	Black		6O 21.5 ha av
541-31 -45-20	Black		60 17 ha avai
<sup>1</sup> Soil type choices: Dark brown and brov	vn, Grey wooded, Black, I	rrigated.	
Other comments:			
	ling Operation) Logo	Lland Location	SU1- 28 -45 -
Manure producer (Confined Feed	ling Operation) Legal	Land Location	SW-28 -45 -
	ding Operation) Legal	l Land Location	SW-28 -45 -
	ding Operation) Legal	I Land Location	
Manure producer (Confined Feed		Rylan	R+T Penna
		l Land Location Rvaa name	
Manure producer (Confined Feed		Rylan	R+T Penna
Manure producer (Confined Feed	Print'	Rylan	R+T Penna
Manure producer (Confined Feed  Jau 13  Date of signing Signature	Print'	Rylan	R+T Penna
Manure producer (Confined Feed  Jau 13  Date of signing Signature	Print'	Rylan	R+T Penna
Manure producer (Confined Feed  San 13  Date of signing Signature  Manure Receiver – Landowner(s	Print	Rylan	R+T Peuna Corporate name(if a
Manure producer (Confined Feed  Jau 13  Date of signing Signature	Print	Rylan	R+T Penna
Manure producer (Confined Feed  San 13  Date of signing Signature  Manure Receiver – Landowner(s	Print	Rylan	R+T Peuna Corporate name(if a
Manure producer (Confined Feed  Jau 13  Date of signing Signature  Manure Receiver – Landowner(s	Print	Rylan	R+T Peuna Corporate name(if a
Manure producer (Confined Feed  San 13  Date of signing Signature  Manure Receiver – Landowner(s	Print	Rylan	R+T Peuna Corporate name(if a



Facility description / name (as	indicated on site plan) 1	Bown 3	New	Build	1	
	2.	•				
Manure storage capacity						
Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)		NRCB L	JSE ONLY age capacity	(m³)
316 f+	50 ft	0	6-8	weeks	per flock	cycle
2.						
-		TOTAL CAPAC	ITY			
reduitements for 21M2 are set of	In the NRCB Short-Term Solid	Manure Storage Requirem	ind handling ents Fact Sh	plan for theet.	his CFO. The	AOPA
Surface water control systems	In the NRCB Short-Term Solid	Manure Storage Requirem	ind handling ents Fact St	g plan for ti	his CFO. The	AOPA
Surface water control systems  Describe the run-on and runoff of	In the NRCB Short-Term Solid	Manure Storage Requirem	ind handling ents Fact St	j plan for ti	his CFO. The	AOPA
Surface water control systems  Describe the run-on and runoff of	In the NRCB Short-Term Solid	Manure Storage Requirem	ind handling ents Fact St	j plan for ti	his CFO. The	AOPA
Surface water control systems  Describe the run-on and runoff of the control systems  Under Roof	ontrol system	Manure Storage Requireme	ind handling ents Fact Sh	plan for theet.	his CFO. The	AOPA
Surface water control systems  Describe the run-on and runoff of the control of t	ontrol system  ty of the liner will be maintaine	Manure Storage Requireme	ind handling ents Fact Sh	plan for theet.	his CFO. The	AOPA
Surface water control systems  Describe the run-on and runoff of the control systems  Under Roof  Liner protection  Describe how the physical integri	ontrol system  ty of the liner will be maintaine	Manure Storage Requireme	and handling ents Fact Sh	plan for theet.	his CFO. The	AOPA
Under Roof  Liner protection  Describe how the physical integri	ontrol system  ty of the liner will be maintaine	Manure Storage Requireme	ind handling ents Fact Sh	g plan for th	his CFO. The	AOPA



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: Concrete requirements can be found in Technical Guideline Agdex 096-93 NRCB USE ONL' Guideline minimums: Solid manure: 25MPa (D) X YES NO Requirements met: Solid manure (wet): 30MPa (C) YES NO Condition required: Method of sulphate protection: Type 50 or Type 10 with fly ash or equivalent YES X NO Report attached: Additional information (attach as required) **NRCB USE ONLY** Nine month manure storage volume requirements met VES X YES With STMS IN NO estimated at 2 m Depth to water table: X YES I NO Requirements met: Depth to Uppermost groundwater resource: 16.5 m X YES NO Requirements met: ERST completed: X see ERST page for details Surface water control systems Requirements met: X YES NO Details/comments: Concrete liner details Leakage detection system required: YES NO If yes, please explain why.

Last updated February 26, 2021