Appendix E

MDH Well Log Reports

227989

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeDir SectionSubsetMWCC PROP.2723W18CDBA		Depth Depth Completed Date Well Completed 8 ft. 05/20/1988
Elevation 722 ft. Elev. Method LiDAR 1m DEM (MNDNR		Method Power Auger Drill Fluid
Address	,	monitor well Status Sealed
Contact 702 POST OFFICE BLDG. ST PAUL MN 5510		Ivdrofractured? Yes No From To g Type Single casing Joint
Stratigraphy Information		Shoe? Yes No X Above/Below 3 ft.
Geological Material From To (ft.) Color	Hardness Casing	g Diameter Weight Hole Diameter
FIBROUS PEAT 0 8 BLACK	SOFT 2 in	n. To 5 ft. lbs./ft. 7 in. To 8 ft.
	Open I Screer	
	Diam 2 ii	eter Slot/Gauze Length Set
	Static	Water Level
	Pump	ing Level (below land surface)
	Wellh	nead Completion
		s adapter manufacturer Model
		Casing Protection I 2 in. above grade At-grade (Environmental Wells and Borings ONLY)
	Grout	ting Information Well Grouted? X Yes No Not Specified
	Mater neat c	rial Amount From To cement ft. 3 ft.
	Neare	est Known Source of Contamination
	<u>20</u> Well	feet South Direction Other Type disinfected upon completion? Yes X No
		ifacturer's name
		el Number HP Volt th of drop pipe ft Capacity g.p. Typ
		doned
		property have any not in use and not sealed well(s)? Yes No
	Varia Was a	a variance granted from the MDH for this well? Yes No
		ellaneous
	Last S	riquitor Qual Water
	Locat	Function
Remarks 40' W. OF NICOLS RD. & 100' N. OF RR.		e Method Digitization (Screen) - Map (1:24,000) (15 meters or
CONTAMINATION: MWCC STATION.	Syste	
WELL SEALED 10-1-1990 BY 27194. ORIGINAL USE MW - MONITOR WELL.		en Number Verification Site Plan Input Date 08/31/2018 Ed Drill Hole
		Contractor
		Geol Survey M0113 ensee Business Lic. or Reg. No. Name of Driller
Minnesota Well Index Report	227989	Printed on 10/25/202 HE-01205-1

277770

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeDir SectionSubsectionOWT-52723W18CADCAC	Well DepthDepth CompletedDate Well Completed7 ft.7 ft.08/22/1989
	Drill Method Hand Auger Drill Fluid
Elevation 716.7 Elev. Method Surveyed Address	Use monitor well Status Active
11011055	
	Well Hydrofractured? Yes No From To Casing Type Single casing Joint
Stratigraphy Information	Casing Type Single casing Joint Drive Shoe? Yes No Above/Below 4.8 ft.
Geological Material From To (ft.) Color Hardness	Casing Diameter Weight
DECOMPOSED PEAT 0 5	2 in. To 3.9 ft. lbs./ft.
SILT, PEAT 5 7	
	Open Hole From ft. To ft.
	Screen? Type Make Diameter Slot/Gauze Length Set
	in. $ft.$ 3.9 $ft.$ 6.9 $ft.$
	Static Water Level
	0 ft. land surface Measure 08/22/1989
	Pumping Level (below land surface)
	Wellhead Completion
	Pitless adapter manufacturer Model
	Casing Protection 12 in. above grade At-grade (Environmental Wells and Borings ONLY)
	Grouting Information Well Grouted? Yes X No Not Specified
	Nearest Known Source of Contamination
	feet Direction Type
	Well disinfected upon completion?
	Pump X Not Installed Date Installed
	Manufacturer's name Model Number HP Volt
	Length of drop pipe ft Capacity g.p. Typ
	Abandoned
	Does property have any not in use and not sealed well(s)?
	Variance Was a variance granted from the MDH for this well? Yes No
	Miscellaneous
	First Bedrock Aquifer Quat. Water
	Last Strat peat, muck Depth to Bedrock ft
Remarks	Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or
THIS NUMBER GIVEN TO DNR-KEYLOR ANDREWS TO TRACK THIS WELL.	Locate MethodDigitization (Screen) - Map (1:24,000) (15 meters orSystemUTM - NAD83, Zone 15, MetersX 482671Y 4963348
	Unique Number Verification Info/GPS from data Input Date 02/25/2017
	Angled Drill Hole
	Well Contractor
	Minnesota DNR M0058 GULLETT, T.
	Licensee Business Lic. or Reg. No. Name of Driller
	277770 Brinted on 10/25/2022
Minnesota Well Index Report	Printed on 10/25/2022 HE-01205-15

277771

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		Township	Range	Dir Section	Subsection	Well Depth	-	Completed		ell Completed	
OWT-3		27	23	W 18	CADACA	8 ft.	8 ft.		08/22/19	989	
Elevation	716.1	Elev. Me	ethod	Surveyed		Drill Method	Hand Auger]	Drill Fluid		
Address						Use monite	or well			Status	Active
						Well Hydrofra	actured? Ye	s 🗌 No	From	То	
						Casing Type			Joint		
Stratigraph				T (0) C		Drive Shoe?	Yes N	0	Above/Below	2.12 ft.	
Geological I DECOMPO			From 0	To (ft.) Co 5	olor Hardness	Casing Diamo	-	(6)			
SILT, PEAT			5	8		2 in. To	5 ft. lt	os./ft.			
, , , , , , , , , , , , , , , , , , , ,			U	0							
						Open Hole Screen?	From C Type		To Make	ft.	
						Diameter	•	ngth	Set		
						in.		ft.	5 ft.	8 ft.	
						Static Water					
						0 ft.	land surface		Measure	08/22/1989	
						Pumping Le	vel (below land sur	face)			
						Wellhead Co	mpletion				
							manufacturer		М	odel	
							Protection		above grade		
							e (Environmental W	ells and Borin	-	- N-+ C-	
						Grouting Inf	ormation we		Yes X N		pecified
						fe	own Source of Cont eet Dir forcted upon completion	ection	Yes	No	Туре
						Pump	X Not Install		e Installed		
						Manufacturer		eu Du	, instance		
						Model Numb		HP	Vo	lt	
						Length of dro	p pipe ft	Capacity	g.p.	Тур	
						Abandoned	y have any not in use a	nd not capiad w	all(c)?	Vas	
						Variance	y have any not in use a	nu not scalcu w	ch(s):	Yes	No
							ce granted from the MI	OH for this well	? [Yes	No
						Miscellaneo	-		L	L	
						First Bedrock				Quat. Water	
						Last Strat	peat,muck		Depth to Be	drock	ft
Remarks						Located by Locate Metho		Geological Su		5 mot	
THIS UNIQU	JE NUMI	BER GIVEN	TO DNR-K	EYLOR ANDREV	VS TO TRACK THIS		UTM - NAD83, Zo		ap (1:24,000) (1 X 4827		3409
WELL.						~	per Verification	Info/GPS fr			25/2017
						Angled Drill	Hole				
						Well Contra	ctor				
						Minnesota	DNR		M0058	GULLET	Т, Т.
						Licensee B	susiness	Lic. of	r Reg. No.	Name of Dr	iller
Minneso	ota W	ell Index	k Repor	rt		277771					n 10/25/2022 HE-01205-15

277772

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name	Townshi		Dir Section		Well Depth	Depth Complete		ell Completed
OWT-4	27	23	W 18	DBCBBC	6 ft.	6 ft.	08/22/19	189
Elevation	712.3 Elev.	Method	Surveyed		Drill Method	Hand Auger	Drill Fluid	
Address					Use monitor	well		Status Active
					Well Hydrofract	ured? Yes No	From	То
					Casing Type	Single casing	Joint	
	y Information		T (b) C		Drive Shoe?	Yes No	Above/Below	1.33 ft.
Geological M DESCOMPC		From 0	To (ft.) C 5	olor Hardness	Casing Diamete	-		
SILT, PEAT		5	6		2 in. To 2	ft. lbs./ft.		
SIL1,1 LA1		5	0					
					Open Hole	From ft.	To Make	ft.
					Screen? X Diameter S	Type lot/Gauze Length	Set	
					in.	ft.	2 ft.	5 ft.
					Static Water L	evel		
					0 ft.	land surface	Measure	08/22/1989
					Pumping Leve	(below land surface)		
					-F8000	,		
					Wellhead Con	nletion		
					Pitless adapter m		м	odel
					Casing Pr		in. above grade	
					Environmental Wells and B	-		
					Grouting Info	mation Well Grouted?	Yes X No	Not Specified
			feet	n Source of Contamination Direction ed upon completion?	Yes	Type No		
					Pump		Date Installed	
					Manufacturer's			
					Model Number	HP	Vol	t
					Length of drop	pipe ft Capacity	g.p.	Тур
					Abandoned	ave any not in use and not sealed	t well(s)?	
					Variance	ave any not in use and not sealed	a well(s):	Yes No
						granted from the MDH for this v	vell?	Yes No
					Miscellaneous	-	L	
					First Bedrock		Aquifer	Quat. Water
					Last Strat	peat,muck	Depth to Bee	drock ft
Remarks					Located by	Minnesota Geological		
THIS UNIQU	E NUMBER GIVE	EN TO DNR-K	EYLOR ANDRE	WS TO TRACK THIS	Locate Method System	Digitization (Screen) - UTM - NAD83, Zone 15, Mete		
WELL.					Unique Number		.020	put Date 02/25/2017
					Angled Drill H	1110, 011		
					Well Contract	or		
					Minnesota D		M0058	GULLETT, T.
					Licensee Bus		c. or Reg. No.	Name of Driller
Minneso	ota Well Ind	ex Repo	rt		277772			Printed on 10/25/20 HE-01205-

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CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name Town	iship Range	Dir Section	Subsection		Well Depth		Depth Complete	ed Dat	e Well Comp	leted
WN1-USGS 27	23	W 18	CADCDA		17.9 ft.		17.9 ft.			
Elevation 719.92 Ele	ev. Method	Surveyed			Drill Method			Drill Fluid		
Address					Use				Sta	tus
					Well Hydrofra	actured?	Yes N	o From		То
					Casing Type			Joint	2.0.0	
Stratigraphy Informatio	n				Drive Shoe? Casing Diame		No Weight	Above/Belo	DW 2.8 f	t.
					1.2 in. To	ft.	lbs./ft.			
					Open Hole	From	ft.	То	ft.	
					Screen?		Туре	Mak	e	
					Static Water	r Level				
					Pumping Lev	evel (below	land surface)			
					Wellhead Co Pitless adapter		er		Model	
						Protection		in. above grade		
							mental Wells and B			
					Grouting Inf	formation	Well Grouted?	Yes	No X	Not Specified
					Noopost Vno	Course	e of Contamination			
						eet	Direction	11		Туре
					Well disinfe	ected upon o	completion?	Yes	No	<i></i>
					Pump Manufacturer		ot Installed	Date Installed		
					Model Numb		HP		Volt	
					Length of dro	op pipe	ft Capacity	g.p.	Тур	
					Abandoned Does property	y have any n	ot in use and not seale	d well(s)?		Yes No
					Variance					
						-	om the MDH for this	well?	Yes	No No
					Miscellaneou First Bedrock				c	
					Last Strat			Aqui Depth t	o Bedrock	ft
Demerik					Located by		innesota Geologica	l Survey		
Remarks THIS UNIQUE NUMBER G	IVEN TO DNR-F	EYLOR ANDREW	S TO TRACK	THIS	Locate Metho System	1	gitization (Screen) AD83, Zone 15, Mete	* ·		or Y 4963325
WELL.					Unique Numb			S from data	Input Date	02/25/2017
					Angled Drill	l Hole				
					Well Contra					
					Minnesota		atural	MNDNR		
					Licensee B			c. or Reg. No.	Name	e of Driller
				~=-		1				
Minnesota Well I	ndex Repo	rt		277	774				Pi	rinted on 10/25/2022 HE-01205-15

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CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name	Township	-	Dir Section	Subsection		Well Depth	
WNS5-USGS Elevation 716.	27 7 Elev. Met		W 18	CADCAC		21.1 ft. Drill Method	21.1 ft. Drill Fluid
Address		unou su	veyed			Use	Status
						Well Hydrofra	
						Casing Type	
Stratigraphy Info	rmation					Drive Shoe?	
						Casing Diamo	-
						1.2 in. To	ft. lbs./ft.
						Open Hole	From ft. To ft.
						Screen?	Type Make
						Static Water	r Level
						Pumping Le	evel (below land surface)
						Wellhead Control Pitless adapted	Completion er manufacturer Model
						Casing	Protection 12 in. above grade
						Grouting In	de (Environmental Wells and Borings ONLY) nformation Well Grouted? Yes No X Not Specified
						Grouting In	
						Nearest Kno	own Source of Contamination
						fe	feet Direction Type
							Sected upon completion? Yes No
						Pump Manufacture	Not Installed Date Installed
						Model Numb	
						Length of dro Abandoned	
							ty have any not in use and not sealed well(s)? Yes No
						Variance	
							nce granted from the MDH for this well? Yes No
						Miscellaneo First Bedrock	
						Last Strat	Depth to Bedrock ft
Remarks						Located by Locate Metho	Minnesota Geological Survey ^{od} Digitization (Screen) - Map (1:24,000) (15 meters or
THIS UNIQUE NUI WELL.	ABER GIVEN T	O DNR-KEY	LOR ANDREW	S TO TRACK	THIS	System	UTM - NAD83, Zone 15, Meters X 482671 Y 4963347
							ber Verification Info/GPS from data Input Date 02/25/2017
						Angled Dril	ll Hole
						Well Contra	actor
						Minnesota	a Dept. of Natural MNDNR
						Licensee E	Business Lic. or Reg. No. Name of Driller
					777	775	
Minnesota V	Vell Index	Report			211	115	Printed on 10/25/2022 HF-01205-15

452922

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeMW - FEN-12723	e Dir Section Subset W 18 DBCI		Well Depth 75 ft.	Depth Completed 73 ft.	Date Well Completed 05/22/1989
Elevation 712.4 Elev. Method		DDC	Drill Method		Drill Fluid Bentonite
Address	Surveyed				
Address			Use monit		Status Active
			Well Hydrofra		From To
			Casing Type		Joint
Stratigraphy Information Geological Material From	To (ft.) Color	Hardness	Drive Shoe?		Above/Below 2.92 ft.
PEAT 0	7 BLACK	Hardness	Casing Diamo	ter Weight 62.4 ft. lbs./ft.	Hole Diameter 6 in. To 74.5 ft.
ORGANIC CLAY 7	12 GRAY	SOFT	2 111. 10	02.4 11. 108./11.	0 III. 10 74.5 II.
M-C SAND LOOSE 12	16 BRN/GRY				
F SAND DENSE V 16	31 BRN/GRY	<i>T</i>			
CLAYEY SAND 31	39 RED/BRN	SFT-MED			
F-M SAND LOOSE 39	42 BROWN		Open Hole		To ft.
FINE SAND V DENSE 42	75 BROWN		Screen? Diameter	C Type plastic Slot/Gauze Length	Make TIMCO Set
			2 in.	10 10 ft.	62.4 ft. 72.4 ft.
			Static Water	Level	
			Pumping Le	vel (below land surface)	
			Wellhead Co Pitless adapter	manufacturer	Model
				e (Environmental Wells and Borin	-
			Grouting In	ormation Well Grouted?	Yes No Not Specified
			Material neat cement	Amou	int From To ft. 50 ft.
			fe	wn Source of Contamination et Direction cted upon completion?	Type Yes No
			Pump Manufacturer	X Not Installed Dat	e Installed
			Model Numb	er HP	Volt
			Abandoned	p pipe ft Capacity	g.p. Typ
				have any not in use and not sealed we	ell(s)? Yes No
			Variance	e granted from the MDH for this well	
			Miscellaneo		
			First Bedrock Last Strat	and brown	Aquifer Depth to Bedrock ft
			Located by	sand-brown Minnesota Geological Su	-
Remarks			Locate Metho		-
LOCATION: 1150" E OF ICOLS RD - N OF	RR RIGHT OF WAY		System	UTM - NAD83, Zone 15, Meters	X 482821 Y 4963450
			Unique Numb	er Verification Tag on well	
			Angled Drill	Hole	
			Well Contra	ctor	
			Gislason, J		M0070 NELSON, T.
			Licensee E		r Reg. No. Name of Driller
Minnesota Well Index Repo	rt	452	2922		Printed on 10/25/20 HE-01205-

452923

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRateMW-FEN-2B2723	-	osection CBBD	Well Depth 15 ft.	Depth Co 15 ft.	ompleted Date W 05/23/1	Vell Completed
		СВВД	Drill Method			909
Elevation 714.7 Elev. Method	Surveyed		_	Power Auger	Drill Fluid	<u> </u>
Address			Use monito			Status Active
			Well Hydrofra	ctured? Yes	No From	То
			Casing Type	Single casing	Joint	
Stratigraphy Information			Drive Shoe?	Yes No	X Above/Below	2 ft.
0	om To (ft.) Color	Hardness	Casing Diame	0		Hole Diameter
NO SAMPLES TAKEN 0		COFT	2 in. To	10 ft. lbs./	′ft.	8 in. To 15 ft
ORGANIC CLAY 10 MED TO COARSE 12		SOFT				
MED TO COARSE 12		X1				
			Open Hole		ft. To	ft.
			Screen?	Type	plastic Make	TIMCO
			Diameter 2 in.	Slot/Gauze Leng 10 5	th Set ft. 10 ft.	15 ft.
			Static Water	Level		
			Pumning Lex	el (below land surfa	ce)	
			- unping DU	(Sere if fund build	,	
			Wellhead Co			
			Pitless adapter			Iodel
			At-grade	e (Environmental Wel	12 in. above grade ls and Borings ONLY)	
			Grouting Inf	ormation Well C	Grouted? X Yes N	
			Material		Amount	From To
			neat cement			ft. 6.8 ft.
			Nearest Kno	wn Source of Contan		
			fe Well disinfe	eted upon completion		Typ
			Pump Manufacturer'	Not Installed	Date Installed	
			Model Numbe		HP Vo	
			Length of drop	pipe ft	Capacity g.p.	Тур
			Abandoned Does property	have any not in use and	not sealed well(s)?	Yes No
			Variance			
				e granted from the MDH	for this well?	Yes N
			Miscellaneou		L	
			First Bedrock		Aquifer	
			Last Strat	sand	Depth to Be	edrock ft
Remarks			Located by		ological Survey	
LOCATION: 1150' E OF NICOLS RD - N	OF RR RIGHT OF WAY		Locate Method System	GPS SA Off (a UTM - NAD83, Zone	averaged) (15 meters)	324 Y 4963447
			Unique Numbe			324 Y 4963447 nput Date 03/08/2018
			Angled Drill			05/06/2016
			Well Contra			
			Gislason, Jo		M0070	MISHLER, T
			Licensee B	isiness	Lic. or Reg. No.	Name of Driller
Minnesota Well Index Re	port	45	2923			Printed on 10/25/2
······································	L ⁻	l I				HE-0120

452924

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

	Section Subsection	Well Depth	Depth Completed Date Well Completed
	18 CADCDA	75 ft.	75 ft. 05/25/1989
Elevation 720.2 Elev. Method Survey	red	Drill Method	Multiple methods used Drill Fluid Bentonite
Address		Use monit	tor well Status Active
		Well Hydrofra	actured? Yes No From To
		Casing Type	
Stratigraphy Information		Drive Shoe?	Yes No X Above/Below 2.2 ft.
č	(ft.) Color Hardness	Casing Diam	eter Weight Hole Diameter
PEAT 0 3	BLACK	2 in. To	64.5 ft. lbs./ft. 6 in. To 74.5 ft.
ORGANIC CLAY DK. 3 15			
FINE SAND LOOSE TO 15 21	BRN/GRY		
CLAY STIFF2124FINE SAND DENSE2448			
SILTY SAND VERY 48 53		Open Hole	From ft. To ft.
FINE SAND VERY 53 75		Screen?	X Type plastic Make TIMCO
	DROWN	Diameter	Slot/Gauze Length Set
		2 in.	10 10 ft. 64.5 ft. 74.5 ft.
		Static Water	r Level
		Pumping Le	evel (below land surface)
			er manufacturer Model
		X Casing At-grad	Protection I2 in. above grade de (Environmental Wells and Borings ONLY)
		Grouting In	formation Well Grouted? X Yes No Not Specified
		Material neat cement	Amount From To ft. 50.2 ft.
		fe	own Source of Contamination Type Geet Direction Type
		Well disinfe	ected upon completion? Yes X No X Not Installed Date Installed Vertical Action of the second sec
		Manufacture	r's name
		Model Numb	
		Length of dro Abandoned	
			ty have any not in use and not sealed well(s)? Yes No
		Variance	
			the granted from the MDH for this well? Yes No
		Miscellaneo	us
		First Bedrock	inquiter indeterminate
		Last Strat	sand-brown Depth to Bedrock ft
Remarks		Located by Locate Metho	Minnesota Geological Survey od GPS SA Off (averaged) (15 meters)
LOCATION: 550'E OF NICOLS RD ON RR RIGHT (DF WAY	System	UTM - NAD83, Zone 15, Meters X 482694 Y 4963326
		-	ber Verification Tag on well Input Date 03/08/2018
		Angled Dril	
		Well Contra	actor
		Gislason, J	
		Licensee E	Business Lic. or Reg. No. Name of Driller
Minnesota Well Index Report	45	2924	Printed on 10/25/202 HE-01205-1

452925

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeDir SectionSubsectionMW-FEN-42723W18CADCDA	Well Depth 21 ft.	Depth CompletedDate Well Completed20 ft.05/26/1989
	Drill Method	Power Auger Drill Fluid
Elevation 721.2 Elev. Method Surveyed	Use monit	*
4001 055		
	Well Hydrofr	
	Casing Type	
Stratigraphy Information Geological Material From To (ft.) Color Hau	rdness Casing Diam	
OG FROM ADJACENT 0 3 BLACK	rdness Casing Diam 2 in. To	eter Weight Hole Diameter 14.6 ft. lbs./ft. 8 in. To 21 ft.
DRGANIC CLAY DK 3 15 VARIED SO		14.0 ft. 105./ft. 8 lii. 10 21 ft.
TINE SAND LOOSE TO 15 21 BRN/GRY		
	Open Hole	From ft. To ft.
	_	Tom Type Plastic Make TIMCO
	Diameter	Slot/Gauze Length Set
	2 in.	10 5 ft. 14.6 ft. 19.6 ft.
	Static Wate	· Level
	Suite Hat	
	Pumping Le	vel (below land surface)
	Wellhead C	
		r manufacturer Model
		Protection I2 in. above grade (Environmental Wells and Borings ONLY)
	Grouting In	-
	Material	
	neat cement	
	Nearest Kn	own Source of Contamination
	f	eet Direction Type
	Well disinf	ected upon completion? Yes X No
	Pump Manufacture	X Not Installed Date Installed
	Model Numb	er HP Volt
	Length of dr	pp pipe ft Capacity g.p. Typ
	Abandoned Does propert	y have any not in use and not sealed well(s)? Yes Ves
	Variance	
		ce granted from the MDH for this well? Yes No
	Miscellaneo	
	First Bedrock Last Strat	Aquifer sand Depth to Bedrock ft
	Located by	Sand Depin to Bedick It
Remarks	Locate Metho	· ·
	System	UTM - NAD83, Zone 15, Meters X 482693 Y 4963326
	Unique Num	ber Verification Tag on well Input Date 03/08/2018
	Angled Dril	Hole
	Well Contra	
	Gislason, Licensee I	
,		
Minnesota Well Index Report	452925	Printed on 10/25/20 HE-01205

462718

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

 Entry Date
 10/31/2013

 Update Date
 09/25/2018

 Received Date
 07/01/2008

Well Name Township OBS-11A 27	RangeDir Sec23W 18	tion Subsecti DBCBD		Well Depth 33 ft.		Depth Completed 22 ft.	Date W 03/23/1	Vell Completed	
			D	Drill Method				990	
	LiDAR Im	DEM (MNDNR)			Power Aug	ger	Drill Fluid	64-4	C - 1 - 1
Address				Use monit				Status	Sealed
Well 3750 PLAN	T RD EAGAN MN 55	122		Well Hydrofra Casing Type		Yes No	Joint	То	
tratigraphy Information				Drive Shoe?	-	No X	Above/Below	2.5 ft.	
Beological Material	From To (ft.)	Color	Hardness	Casing Diamo	eter We	ight		Hole Diamete	er
ORGANIC CLAY	0 4	BLACK	SOFT	2 in. To	27 ft.	lbs./ft.		10 in. To	33 f
RGANIC CLAY	4 12	VARIED	SOFT						
EAN CLAY	12 14	GRAY	SOFT						
RAVEL LOOSE	14 17	BROWN	SOFT						
MEDIUM TO FINE	17 21	BROWN		On on Hala					
INE SAND LOOSE	21 27	BROWN		Open Hole	From	ft. Type plastic	To Make	ft. TIMCO	
MEDIUM TO FINE	27 29	BROWN		Screen?	K Slot/Gauze	Type plastic Length	Set	TIMCO	
TINE SAND VERY	29 33	BROWN		2 in.	10	5 ft.	27 ft.	32 ft.	
				Static Water	Level				
				8.5 ft.	land surfa	ice	Measure	03/23/1990	
				Pumping Le	vel (below la	nd surface)			
				Wellhead Co	-				
					r manufacturer			Aodel	
					Protection le (Environme	ntal Wells and Bo	above grade		
				Grouting Int			-	lo Not S	specified
				Material		Amo			`0
				neat cement		7 1110	Juint	3 ft. 23	
				concrete		0		ft. 3	
				Nearest Kno	own Source o	f Contamination			
					eet	Direction	N		Тур
				Pump		-	Yes ate Installed	No	
				Manufacture	's name				
				Model Numb		HP	Vo		
				Length of dro	op pipe	ft Capacity	g.p.	Тур	
				Abandoned Does property	y have any not i	n use and not sealed	well(s)?	Yes	N
				Variance					_
				Was a varian	ce granted from	the MDH for this we	11? [Yes	□ N
				Miscellaneo	us				
				First Bedrock			-	Quat. Water	
				Last Strat	sand-brow		Depth to Be	edrock	ft
Remarks				Located by		esota Geological S	•		
SEALED 6-6-2008 BY 1404.				Locate Metho	015	SA Off (averaged)		0.65 37.45	co 107
				System	UTM - NAL ber Verification	D83, Zone 15, Meters	.02		63427
				Angled Drill		Tag on we			/08/2018
				Well Contra	ictor				
				Gislason, J			M0070	NELSO	
				Licensee E	susiness	Lic.	or Reg. No.	Name of D	riller
Minnosoto Wall Inda	v Ronant		462	2718				Printed	on 10/25/2
Minnesota Well Inde	x report								HE-0120

462719

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

 Update Date
 09/25/2018

 Received Date
 07/01/2008

Well NameTownshipRangeDir SectionSubsectionOBS-11B2723W18DBCBDB	Well Depth 13 ft.	Depth Completed 12 ft.	Date We 03/22/19	ell Completed	
	Drill Method	Power Auger	Drill Fluid	90	
Elevation 716 ft. Elev. Method LiDAR 1m DEM (MNDNR) Address				Status	Sealed
	Use monit				Sealed
Well 3750 PLANT RD EAGAN MN 55122	Well Hydrofra		From	То	
Stratigraphy Information	Casing Type Drive Shoe?	Single casing Yes No	Joint Above/Below	2.5 ft.	
	rdness Casing Diame		Above/Below	2.3 It.	
		7 ft. lbs./ft.			
ORGANIC CLAY 4 12 VARIED SC	DFT				
LEAN CLAY 12 13 GRAY SO)FT				
	Open Hole	En en A	T-	<i>C</i> ₁	
	Screen?	From ft. Type plastic	То Маке П	ft. TIMCO	
	Diameter	Slot/Gauze Length	Set		
	2 in.	10 5 ft.	7 ft.	12 ft.	
	Static Water				
	8.5 ft.	land surface	Measure	03/22/1990	
	Pumping Le	vel (below land surface)			
	Wellhead Co				
		manufacturer		odel	
		Protection X 12 in e (Environmental Wells and Bor	above grade		
	Grouting Int		X Yes No	Not Si	pecified
	Material	Amo		From To	
	concrete	0		ft. 3	ft.
	N. 417				
		et Direction			Tuna
		cted upon completion?	Yes	No	Туре
	Pump Manufacturer		ate Installed		
	Model Numb		Vol		
	Length of dro	p pipe ft Capacity	g.p.	Гур	
	Abandoned Does property	where any not in use and not sealed	well(s)?	Yes	No No
	Variance				
		ce granted from the MDH for this we	11?	Yes	No
	Miscellaneo		A * * C	o	
	First Bedrock Last Strat	clay-gray	Aquifer Depth to Bed	Quat. Water	ft
	Located by	Minnesota Geological S	-		
Remarks	Locate Metho	d GPS SA Off (averaged)	(15 meters)		
SEALED 60602008 BY 1404.	System	UTM - NAD83, Zone 15, Meters	1020		
	Unique Numb Angled Drill	Per Verification Tag on we	ell Ing	out Date 03/	08/2018
	Angicu Dilli				
	Well Contra	etor			
	Gislason, J		M0070	NELSON	и
	Licensee E		or Reg. No.	Name of Di	
	462710				
Minnesota Well Index Report	462719				on 10/25/202 HE-01205-1

509094

County Dakota Quad

Quad V Quad ID

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

 Entry Date
 04/19/2013

 Update Date
 09/24/2018

 Received Date
 07/12/1996

Well Name	Township	Range	Dir Sectio		ction	Well Depth		pth Completed		Vell Completed	
IW4 METRO	27 Eler Ma	23	W 18	DBC		73 ft. Drill Method	73 Cable Te al	It.	07/02/		
Elevation Address	Elev. Me	etnoa					Cable Tool		Drill Fluid Be	ntonite Status	Sealed
						Use injecti				Status	Sealed
Contact	3752 PLANT		AN MN			Well Hydrofra		Yes No	From	То	
Well Stratigraphy In	SEE REMAR	KS MN				Casing Type Drive Shoe?	·	No	Joint Above/Below		
Geological Mate		From	To (ft.)	Color	Hardness	Casing Diame			Above/ Delow	Hole Diamete	r
CLAY/PEAT		0	11	BLACK	SOFT	8 in. To	28 ft.	lbs./ft.		45 in. To	23 ft.
SAND		11	73			2.5 in. To	22 ft.	lbs./ft.			
						Open Hole	From	ft.	То	ft.	
						Screen? Diameter	Slot/Gauze	T ype Length	Make Set	JOHNSON	
						in.	30	ft.	20 ft.	73 ft.	
						Static Water	Level				
						20 ft.	land surface		Measure	07/10/1990	
						Pumping Le	vel (below land	surface)			
						30 ft.	3 hrs.	Pumping at	100	g.p.m.	
						Wellhead Co					
							r manufacturer Protection	X 12 in	. above grade	Model	
								al Wells and Bor	ings ONLY)		
						Grouting Int	formation	Well Grouted?	X Yes		pecified
						Material neat cement		Amo 3	Cubic yards	From T ft. 28	
						fe	own Source of (Direction			Туре
							ected upon comp		Yes	X No	
						Pump Manufacturer	Not In	stalled Da	ate Installed		
						Model Numb		HP	V	olt	
						Length of dro	op pipe	ft Capacity	g.p.	Тур	
						Abandoned Does propert	v have any not in 1	use and not sealed v	vell(s)?	Yes	No
						Variance	,,,				
						Was a varian	ce granted from th	e MDH for this we	11?	Yes	No
						Miscellaneo First Bedrock			A: 6-		
						Last Strat			Aquife Depth to I		ft
						Located by					
Remarks WELL ADDRESS	: 1500' NE NICO	LAS RD AN	ID C&NW RA	ILROAD		Locate Metho		3, Zone 15, Meters	Х	V	
SEALED 1-17-199	96 BY 27118					System Unique Numb	ber Verification	5, Zolie 15, Meleis		Y Input Date	
						Angled Drill	l Hole				
						Well Contra	ictor				
						Keys Well		.	62012	NI (25	.11
						Licensee E	susiness	Lic.	or Reg. No.	Name of D	riller
Minnesota	Well Index	Report	t		50	9094					on 10/25/2022 HE-01205-15

509095

County Dakota

Quad Quad ID

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

 Entry Date
 04/19/2013

 Update Date
 03/10/2014

 Received Date
 07/12/1996

Well Name IW-3 METRO	Township 27	Range 23	Dir Section W 18	Subsect DBC	tion	Well Depth 77 ft.		epth Completed ft.	Date 07/17	Well Complete	ed
Elevation	Elev. Me		W 18	DBC		Drill Method	Cable Tool	It.	Drill Fluid B		
Address	Liev. Me	tillou				Use inject				Status	Sealed
Well	SEE REMAR	VS MN				Well Hydrofra		V V			
wen	SEE KEWAN					Casing Type		Yes No	Joint	To)
Stratigraphy Inf	ormation					Drive Shoe?		No	Above/Belov	v	
Geological Mater		From	To (ft.) Co	olor	Hardness	Casing Diam	eter Weig	ht			
CLAY/PEAT		6	14			88 in. To	31 ft.	lbs./ft.			
SAND		14	77			24 in. To	25 ft.	lbs./ft.			
						Open Hole	From	ft.	То	ft.	
						_		Туре		JOHNSON	
						Diameter in.	Slot/Gauze 30	Length 45 ft.	Set 31 ft.	76 ft.	
						Static Water					
						7.5 ft.	land surface	e	Measure	07/17/199	90
						Pumping Le	vel (below land	l surface)			
						17.5 ft.	2 hrs.	Pumping at	125	g.p.m.	
						Wellhead C	-				
						_	r manufacturer Protection	X 12 in	. above grade	Model	
								tal Wells and Bor	ings ONLY)		
						Grouting In	formation				t Specified
						Material neat cement		Amo 3	ount Cubic yards	From	To 25 ft.
								, C	cuolo fulus		20 10
						Nearest Kno	own Source of	Contamination			
							eet ected upon com	Direction	Yes	X No	Туре
						Pump Manufacture	Not Ir		ate Installed		
						Model Numb	ber	HP	v	Volt	
						Length of dro	op pipe	ft Capacity	g.p.	Тур	
						Abandoned	v have any not in	use and not sealed v	vell(s)?	Ye	es 🗴 No
						Variance	<i>y</i> nuve uny not m	abe and not seared (.5 📉 110
						Was a varian	ce granted from th	ne MDH for this we	11?	Yes	No No
						Miscellaneo					
						First Bedrock			Aquife Depth to		ft
						Located by			1		
Remarks WELL ADDRESS:	1500' NE NICO	LAS RD AN	JD C&NW RAII	ROAD		Locate Metho					
SEALED 1-17-199						System Unique Numl	UTM - NAD8 ber Verification	33, Zone 15, Meters	Х	Y Input Date	
						Angled Dril					
						W.P.C.					
						Well Contra Keys Well			62012		
						Licensee F		Lic.	or Reg. No.	Name of	Driller
Minnesota	Well Index	Repor	t		50	9095				Printe	ed on 10/25/2022 HE-01205-15

County Dakota

509096 Quad Quad ID

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

 Entry Date
 04/19/2013

 Update Date
 03/10/2014

 Received Date
 07/12/1996

Well Name IW-2 METRO	Township	Range 23	Dir Section W 18	Subsect	ion	Well Depth 73 ft.		pth Completed		Vell Completed	
Elevation	27 Elev. Me		W 18	DBC		Drill Method	73 Cable Tool		07/00/2		
Address	Elev. Mit	tillou				Use injecti			Drill Fluid Ber	Status	Sealed
		VC MN				Well Hydrofra		¥7 🗍			Scaled
Well	SEE REMAR	KS MIN						Yes No	From Joint	То	
Stratigraphy In	formation					Casing Type Drive Shoe?		No	Joint Above/Below		
Geological Mater		From	To (ft.) C	color	Hardness	Casing Diam			110010/201011	Hole Diamete	r
PEAT/CLAY		0	10			20 in. To	20 ft.	lbs./ft.		16 in. To	ft.
SAND		10	73			28 in. To	28 ft.	lbs./ft.			
						Open Hole Screen?	From	ft. Гуре	To	ft. JOHNSON	
						Diameter in.	X Slot/Gauze	Length 0 ft.	Set 28 ft.	73 ft.	
						Static Water 10 ft.	Level land surface	2	Measure	08/06/1990	
						Pumping Le	vel (below land	l surface)			
							r manufacturer			Model	
						At-grad		al Wells and Bor	-		
						Grouting In	formation				pecified
						Material neat cement		Amo 3	Cubic yards	From T ft. 20	
						fe	own Source of (eet ected upon comp	Direction	Yes	X No	Туре
						Pump Manufacturer	X Not In	L	ite Installed	Λ	
						Model Numb	er	HP	V	olt	
						Length of dro	op pipe	ft Capacity	g.p.	Тур	
						Abandoned Does propert	y have any not in	use and not sealed w	vell(s)?	Yes	X No
						Variance Was a varian	ce granted from th	e MDH for this wel	1?	Yes	No
						Miscellaneo First Bedrock			Aquifer		
						Last Strat			Depth to B		ft
Remarks						Located by					
WELL ADDRESS SEALED 1-17-199		LAS RD AN	ID C&NW RAII	LROAD		Locate Metho System	UTM - NAD8	3, Zone 15, Meters	Х	Y	
						Angled Dril	per Verification			Input Date	
						Well Const					
						Well Contra Keys Well			62012		
						Licensee E		Lic. o	or Reg. No.	Name of D	riller
Minnesota	Well Index	x Repor	t		509	096					on 10/25/2022 HE-01205-15

512173

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

 Entry Date
 08/22/1991

 Update Date
 09/24/2018

 Received Date
 04/03/1990

Well Name	Township	Range	Dir Section			Well Depth	Depth Complete		Vell Completed	
NWCC	27	23	W 18	DBC		73 ft.	71 ft.	03/17/	1990	
Elevation	Elev. Me	thod				Drill Method	Power Auger	Drill Fluid W	ater	
Address						Use injecti	on		Status	Sealed
C/W	3752 PLANT	RD MN			1	Well Hydrofra	ctured? Yes N	lo 🗌 From	То	
						Casing Type		Joint	Welded	
Stratigraphy In Geological Mat		From	To (ft.) Co	olor Hard	H	Drive Shoe?	Yes No X	Above/Below		
PEAT	errar	0	8			Casing Diame 8 in. To	ter Weight 15.5 ft. 28 lbs./ft.		Hole Diamete 42 in. To	
CLAY		8	12			o III. 10	15.5 II. 28 IDS./II.		42 in. 10 36 in. To	20 ft. 30 ft.
BOULDERS		12	14						24 in. To	70 ft.
SAND		14	50							
CLAY		50	55		-					
SAND		55	73		L	Open Hole	From ft.	То	ft.	
						Screen? Diameter 8 in.	TypestainlSlot/GauzeLength3055ft.	ess Make Set 15.5 ft.	JOHNSON 70.5 ft.	
					2	Static Water	Level			
						12 ft.	land surface	Measure	03/17/1990	
					I	Pumping Lev	vel (below land surface)			
					-	Wellhead Co	ompletion			
						Pitless adapter			Model	
							Protection X 12 e (Environmental Wells and F	in. above grade Borings ONLY)		
						Grouting Inf	Cormation Well Grouted?	X Yes	No Not S	specified
						Material	А	mount	From T	ò
						neat cement	5	Cubic yards	ft. 10	0 ft.
					-		wn Source of Contaminatio	n		
							cted upon completion?	Yes	X No	Туре
					J	Pump Manufacturer		Date Installed		
						Model Numb	er HP	v	olt	
						Length of dro	p pipe ft Capacity	g.p.	Тур	
					4	Abandoned			_]
					-		have any not in use and not seale	ed well(s)?	Yes	X No
						Variance Was a varianc	e granted from the MDH for this	well?	Yes	No No
					•	Miscellaneou First Bedrock	15	Aquife	•	
						Last Strat		Depth to I	Bedrock	ft
Remarks						Located by				
	01-17-1996 BY 27	118				Locate Metho		N N	V	
THIS IS AN INJE	ECTION WELL - 1		FOR POSSIBLY	MORE		System Unique Numb	UTM - NAD83, Zone 15, Met er Verification		Y Input Date	
INSTALLATION LOCATION: 280	I 10FT SOUTHWES	Г OF 3752 F	LANT RD			Angled Drill				
						g-04 2				
					-	Well Contra	ctor			
						Tri-state W		27118	HICKM	
						Licensee B	usiness Li	c. or Reg. No.	Name of D	Driller
Minnesota	Well Index	Repor	t		512	173			Printed	on 10/25/2022 HE-01205-15

522299

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name Township Range Dir Section Subse	ction	Well Depth	Depth C	Completed	Date W	ell Completed	
MW-1LS 27 23 W 18 CDDC	CAA	10 ft.	8 ft.		02/02/1	993	
Elevation 748.8 Elev. Method Surveyed		Drill Method	Non-specified Rot	ary 1	Drill Fluid		
Address		Use monito	or well			Status	Active
Contact 230 FIFTH ST ST PAUL MN 55101		Well Hydrofra	ctured? Yes	No	From	То	
Well 3800 NICHOLS RD MN		Casing Type	Single casing		Joint		
Stratigraphy Information	ŀ	Drive Shoe?	Yes No		Above/Below	2.05 ft.	
Geological Material From To (ft.) Color	Hardness	Casing Diame	0			Hole Diamete	
PEAT/MUCK 0 10 BLACK	SOFT	2 in. To	3 ft. lbs	./ft.		8 in. To	9 ft.
	-	Open Hole Screen?		plastic		ft. JOHNSON	
		Diameter 2 in.	Slot/Gauze Leng 10 5	gth ft.	Set 3 ft.	8 ft.	
		Static Water 1.3 ft.	Level land surface		Measure	02/05/1993	
		Pumping Lev	vel (below land surfa	ace)			
		Wellhead Co Pitless adapter X Casing	manufacturer Protection		above grade	Iodel	
		Grouting Inf	e (Environmental We formation Well		Yes N	o Not S From T	pecified
		neat cement		1	Sacks	ft. 2	ft.
		fe	wn Source of Conta et Direc cted upon completion	ction	Yes	X No	Туре
		Pump Manufacturer		i Dat HP	e Installed	1.	
		Model Numb Length of dro		Capacity	Vo g.p.	п Тур	
		Abandoned	<u> </u>		81	JT	
			have any not in use and	I not sealed we	ell(s)?	Yes	X No
		Variance	a granted from the MDI	I for this well	, , Г	Yes	NT-
		Miscellaneou First Bedrock	e granted from the MDF	1 IOI UIIS WEII		Quat. Water	No
Remarks		Last Strat Located by Locate Metho	peat-black Minnesota G	-	-		ft
		System	UTM - NAD83, Zone		ap (1:24,000) (1 X 4826 from Ir	574 Y 496	2978 /22/2019
		Angled Drill	Hole				
		Well Contra Twin City			M0122	BRABENI	FR I
		Licensee B			Reg. No.	Name of D	
Minnesota Well Index Report	522	299					on 10/25/2022 HE-01205-15

526701

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeDir SectionSubsectionPZ-1 LN2723W18CDDCA		Well Depth 28 ft.		Depth Completed	Date W	ell Completed	
Elevation 748.8 Elev. Method Surveyed		Drill Method	Driven		Drill Fluid	.,,,	
Address		Use piezor				Status	Active
Well 3800 NICOLS RD MN		Well Hydrofra		Yes No	From	То	
	·	Casing Type	Single ca		Joint	10	
Stratigraphy Information		Drive Shoe?	Yes X	No	Above/Below	3.16 ft.	
5	Hardness	Casing Diame	ter We	ight			
	SOFT	1.2 in. To	26 ft.	lbs./ft.			
SAND LOOSE 18 28 BROWN							
		Open Hole	From	ft.	То	ft.	
		Screen?		Type stainles			
		Diameter 1.2 in.	Slot/Gauze 60	Length 2 ft.	Set 26 ft.	28 ft.	
		Static Water	Level				
		1.1 ft.	land surfa	ice	Measure	02/05/1993	
		Pumping Le	vel (below la	nd surface)			
		Wellhead Co	ompletion				
		Pitless adapter				odel	
			Protection e (Environme	ntal Wells and Bo	n. above grade prings ONLY)		
		Grouting Inf		Well Grouted?	Yes X No	D Not S	pecified
		Nearest Kno	wn Source o	f Contamination			
			et cted upon con	Direction npletion?	Yes	X No	Туре
		Pump Manufacturer		Installed I	Date Installed		
		Model Numb	er	HP	Vol	lt	
		Length of dro	p pipe	ft Capacity	g.p.	Тур	
		Abandoned Does property	have any not i	n use and not sealed	well(s)?	Yes	X No
		Variance	<u> </u>				
		Was a variand	e granted from	the MDH for this w	ell?	Yes	No
		Miscellaneou	15				
		First Bedrock Last Strat	sand-brov	wn	Aquifer Depth to Be	Quat. Water	ft
		Located by		vii iesota Geological	-		11
Remarks		Locate Metho	d Digit	ization (Screen) -	Map (1:24,000) (1		
		System Unique Numb	UTM - NAI er Verification	D83, Zone 15, Meter			
		Angled Drill		Informati		r == 07.	/22/2019
		Well Contra	ctor				
		Twin City	-		M0122	BRABENI	
		Licensee B	usiness	Lic	. or Reg. No.	Name of D	riller
Minnesota Well Index Report	526	701				Printed of	on 10/25/2022
							HE-01205-15

526702

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRPZ-1RN2723	ange Dir Section	on Subsection CDDBDI		Well Depth 36 ft.		Depth Completed 36 ft.	Date W 02/03/19	ell Completed	
Elevation 753.08 Elev. Method		CDDBDL)	Drill Method	Driven	50 ft.	Drill Fluid	993	
Address	Surveyed						Dimiriud	Status	Sealed
				Use piezor Well Hydrofra					Sealeu
Well 3800 NICOLS RE) MN					Yes No		То	
Stratigraphy Information				Casing Type Drive Shoe?	Single c Yes X	No No	Joint Above/Below	1.92 ft.	
	From To (ft.)	Color H	Iardness	Casing Diame		eight	Above/Below	1.92 II.	
PEAT	0 26	BLACK S	OFT	-	34 ft.	lbs./ft.			
SAND LOOSE	26 36	BROWN							
				Open Hole	From	ft.	То	ft.	
				Screen?		Type stainles	s Make		
				Diameter	Slot/Gauze 60	U	Set	26	
				1.2 in.	60	2 ft.	34 ft.	36 ft.	
				Static Water	Level				
				7.3 ft.	land surf	ace	Measure	02/05/1993	
				Dumping Lo	val (balaw la	and surface)			
				Pumping Le		ing surface)			
				Wellhead Co	mnloti				
				Pitless adapter	-		N	Iodel	
				X Casing	Protection	12 ii	n. above grade	louer	
				-		ental Wells and Bo			
				Grouting Inf	formation	Well Grouted?	Yes X N	o Not S	pecified
				fe	own Source of the set and the set of the	of Contamination Direction ompletion?	Yes	No	Туре
				Pump			Date Installed		
				Manufacturer	's name				
				Model Numb		HP	Vo		
				Length of dro Abandoned	pp pipe	ft Capacity	g.p.	Тур	
					y have any not	in use and not sealed	well(s)?	Yes	No
				Variance					
					-	n the MDH for this w	ell?	Yes	No
				Miscellaneou					
				First Bedrock Last Strat	sand-bro	wn	Aquifer Depth to Be	Quat. Water	ft
				Located by		nesota Geological	-		11
Remarks				Locate Metho	od Digi	tization (Screen) -	Map (1:24,000) (1	5 meters or	
SEALED 03-31-1997 BY M0143				System		D83, Zone 15, Meters			
					ber Verification	¹ Informati	on from Ir	nput Date 07/	/22/2019
				Angled Drill	i Hole				
				Well Contra	ictor				
				Twin City		<u> </u>	M0122	NI 07	.11
				Licensee B	Business	Lic.	or Reg. No.	Name of D	niler
Minnesota Well Index Ro	eport		526	5702					on 10/25/2022 HE-01205-15

526703

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name PZ-1 RS	T o 27	ownship	Range 23	Dir Sectio W 18	on Subsec		Well Depth 11 ft.		Depth Completed	Date W 02/03/1	Vell Completed	
Elevation		Elev. Me		Surveyed			Drill Method	Driven		Drill Fluid		
Address				Sarreyeu			Use piezoi				Status	Sealed
Well	380	0 NICOLS	S RD MN				Well Hydrofra		Yes No	From		-
	500						Casing Type			Joint	То	
Stratigraph	y Informa	ation					Drive Shoe?		No	Above/Below	2.58 ft.	
Geological N	Material		From		Color	Hardness	Casing Diamo		eight			
PEAT			0	11	BLACK	SOFT	1.2 in. To	7.5 ft.	lbs./ft.			
							Open Hole Screen?	From	ft. Type stainless	To s Make	ft. TEEL	
							Diameter 1.2 in.	Slot/Gauze		Set 7.5 ft.	10.5 ft.	
							Static Water	·Lovol				
							1.9 ft.	land surfa	ace	Measure	02/05/1993	
							Pumping Le	vel (below la	nd surface)			
							Wellhead Co	omplotie-				
								r manufacturer		Ν	Iodel	
								Protection		above grade		
							Grouting Inf		ental Wells and Bor Well Grouted?	rings ONLY)	Io Not Si	pecified
									of Contamination			
								eet ected upon co	Direction mpletion?	Yes	X No	Туре
							Pump Manufacturer	r's name		ate Installed		
							Model Numb		HP ft Capacity	v v	olt Typ	
							Abandoned	1 1 7 7	n capacity	g.p.	- 7 P	
								y have any not	in use and not sealed	well(s)?	Yes	X No
							Variance Was a varian	ce granted from	n the MDH for this we	211?	Yes	No
							Miscellaneo First Bedrock	-			Quat. Water	¢.
							Last Strat Located by	peat-blac Min	k nesota Geological S	Depth to Be Survey	CUTOCK	ft
Remarks SEALED 03-3	31-1997 BY	M0143					Locate Metho System	od Digi	tization (Screen) - N D83, Zone 15, Meters	Map (1:24,000) (3000
								per Verification				22/2019
							Angled Drill	l Hole				
							Well Contra	nctor				
							Twin City		.	M0122	BRABEND	
							Licensee E	susiness	Lic.	or Reg. No.	Name of D	niler
Minneso	ota Wel	l Index	Repor	t		52	6703					on 10/25/2022 HE-01205-15

526704

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		ownship	Range	Dir Secti			Well Depth		Depth Completed		ell Completed	
PZ 2 LN	2		23	W 18	CDDI	BBB	36 ft. Drill Method		6 ft.	02/02/1	993	
Elevation	/38.9/	Elev. Me	thod S	Surveyed				Driven		Drill Fluid		<u> </u>
Address							Use piezoi				Status	Sealed
Well	380	00 NICOL	S RD MN				Well Hydrofra		Yes No	From	То	
							Casing Type		-	Joint	4.05.6	
Stratigraph Geological I		ation	From	To (ft.)	Color	Hardness	Drive Shoe? Casing Diamo			Above/Below	4.25 ft.	
PEAT			0	26	BLACK	SOFT	1.2 in. To	34 ft.	lbs./ft.			
SAND LOO	SE		26	36	BROWN		1.2 m. 10	54 H.	105./10.			
							Open Hole	From	ft.	То	ft.	
							Screen?	K	Type stainless			
							Diameter 1.2 in.	Slot/Gauze 60	Length 2 ft.	Set 34 ft.	36 ft.	
							Static Water	Level				
							-4.2 ft.	land surfa	ce	Measure	02/05/1993	
							Pumping Le	vel (below laı	nd surface)			
							Wellhead Co					
								r manufacturer			Iodel	
ĺ								Protection le (Environme	ntal Wells and Bo	above grade (ings ONLY)		
							Grouting Int		Well Grouted?	Yes X N	o Not S	pecified
							fe	eet	f Contamination Direction	Ver	V. No	Туре
							Pump	cted upon cor	_	Yes ate Installed	X No	
							Manufacture					
							Model Numb		HP ft Capacity	Vo		
							Abandoned	ip pipe	It Capacity	g.p.	Тур	
								y have any not i	n use and not sealed	well(s)?	Yes	X No
							Variance			110 F	T	
								-	the MDH for this we	ell?	Yes	No
							Miscellaneo First Bedrock			Aquifer	Quat. Water	
							Last Strat	sand-brov	vn	Depth to Be	~	ft
Dow1							Located by		esota Geological S	•		
Remarks STATIC WA	TER LEVI	EL: -4.2 FRO	DZEN				Locate Metho	Digiti	zation (Screen) - N 083, Zone 15, Meters	-		2070
SEALED 03-							System Unique Numb	UIM - NAL ber Verification	Informatio			3070 /22/2019
							Angled Drill		Informatio		0///	
							Well Contra	octor				
							Twin City			M0122	BRANBEN	DER. L
							Licensee E		Lic.	or Reg. No.	Name of D	
Minnag	to Wa	ll Indo-	Donor	4		52	6704				Printed of	on 10/25/2022
Minneso	na we	in maex	report	ι								HE-01205-15

526705

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name PZ 2 LS	TownshipRate2723	nge Dir Section W 18	Subsection CDDBBB	Well Depth 6 ft.		Depth Completed 6 ft.	Date We 02/02/19	ell Completed	
	7 Elev. Method	Surveyed	CDDDDD	Drill Method	Driven	0 H.	Drill Fluid	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Address		Salveyea		Use piezor	neter			Status	Sealed
Well	800 NICOLS RD	MN		Well Hydrofra		Yes No	From	То	
				Casing Type	Single c		Joint	10	
Stratigraphy Info	mation			Drive Shoe?	Yes	No	Above/Below	2.43 ft.	
Geological Materia			olor Hardness	Casing Diame	eter W	eight			
PEAT	0	6 BI	LACK SOFT	1.2 in. To	3 ft.	lbs./ft.			
				Open Hole	From	ft.	To s Make 7	ft.	
				Screen? Diameter 1.2 in.	Slot/Gauze	Type stainless Length 3 ft.	Set 3 ft.	6 ft.	
				Static Water	Level				
				Pumping Le	vel (below la	nd surface)			
				Wellhead Co Pitless adapter	manufacturer		M. above grade	odel	
				Grouting Inf	e (Environm	ental Wells and Bo Well Grouted?	rings ONLY)	D Not S	pecified
					eet	of Contamination Direction mpletion?	Yes	X No	Туре
				Pump Manufacturer	's name		ate Installed		
				Model Numb Length of dro		HP ft Capacity	Vol g.p.	t Typ	
				Abandoned			5·P·	- J P	
				Does property	y have any not	in use and not sealed	well(s)?	Yes	X No
				Variance Was a variance	ce granted from	n the MDH for this we	-11º	Yes	No
				Miscellaneou First Bedrock Last Strat	us peat-bla	:k	Aquifer Depth to Bec	Quat. Water	ft
Remarks STATIC WATER LE SEALED 03-31-1997				Located by Locate Metho System Unique Numb	d Digi UTM - NA	nesota Geological S tization (Screen) - 1 D83, Zone 15, Meters	Map (1:24,000) (1: X 4826	16 Y 496	
				Angled Drill		n Informatio		put Date 07,	/22/2019
				Well Contra Twin City			M0122	BRABENI)FR I
				Licensee B	-	Lic.	or Reg. No.	Name of D	
Minnesota W	ell Index Re	port	52	6705					on 10/25/2022 HE-01205-15

526706

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well NameTownshipRangeDir SectionSubsecPZ 2 RN2723W18CDDBI		Well Depth 37 ft.	Depth Com 37 ft.	pleted Date V 02/01/2	Vell Completed	
		Drill Method	Driven	Drill Fluid	1995	
Elevation /38.82 Elev. Method Surveyed Address				Drin Fiula	Status Seal	lad
	-	Use piezome				leu
Well 3800 NICOLS RD MN		Well Hydrofract		No From	То	
Ctustiquenty Information		Casing Type Drive Shoe?	Single casing Yes X No	Joint Above/Below	7.25 ft.	
Stratigraphy Information Geological Material From To (ft.) Color		Casing Diamete		Above/Below	7.23 It.	
PEAT 0 26 BLACK	SOFT	-	4.8 ft. lbs./ft.			
SAND LOOSE 26 36 BROWN						
	Ċ	Open Hole	From ft.	То	ft.	
	5	Screen? X		tainless Make	TEEL	
			Slot/Gauze Length 50 2	Set ft. 34.8 ft.	36.8 ft.	
		1.2	50 2	n. 54.6 n.	50.0 11.	
	:	Static Water I	evel			
		-3.1 ft.	land surface	Measure	02/05/1993	
]	Pumping Leve	l (below land surface)			
			,			
	-	Wellhead Con	pletion			
		Pitless adapter n	-	1	Model	
		X Casing Pr		12 in. above grade		
	-	Grouting Info	(Environmental Wells a rmation Well Grou	-	No Not Specifie	əd
		orouting mio				u
			~ ~ ~ ~ ~			
		Nearest Know fee	n Source of Contamin Direction		T	L
			ed upon completion?	Yes	X No	ype
	Ī	Pump	X Not Installed	Date Installed		
		Manufacturer's				
		Model Number			olt	
	-	Length of drop Abandoned	pipe ft Cap	pacity g.p.	Тур	
			ave any not in use and not	sealed well(s)?	Yes X	No
	-	Variance				
			granted from the MDH for	this well?	Yes	No
		Miscellaneous First Bedrock			0	
		First Bedrock Last Strat	sand-brown	Aquifer Depth to B	Quat. Water edrock f	ft
		Located by	Minnesota Geolo	•	1	
Remarks SEALED 03-31-1997 BY M0143		Locate Method	Digitization (Scre	een) - Map (1:24,000) (
		System Unique Number	UTM - NAD83, Zone 15, Verification		644 Y 4963080 Input Date 07/22/20	10
		Angled Drill H		ormation from	07/22/20	17
		ingreu Di mi I				
	-					
		Well Contract		M0122		
		Twin City Te Licensee Bu		M0122 Lic. or Reg. No.	BRABENDER, L Name of Driller	<u></u>
Minnesota Well Index Report	526	706			Printed on 10/2: HE-012	

526707

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name	Township	Range	Dir Section	Subsection	Well Depth	_	Completed		ll Completed	
PZ-2 RS Elevation	27 738.82 Elev. Me	23 thod	W 18	CDDBBA	8 ft. Drill Method	8 ft. Driven	n	02/01/199 rill Fluid	95	
Address	750.02 EICV. MC	tilou	Surveyed		Use piezor		D	1 III F Iulu	Status	Sealed
Well	3800 NICOL	S PD MN			Well Hydrofra			F		Sealed
wen	5800 NICOL				Casing Type		es No	From Joint	То	
Stratigraphy	y Information				Drive Shoe?			Above/Below	2.47 ft.	
Geological M		From		olor Hardness	Casing Diame	eter Weight				
PEAT		0	8 BI	LACK SOFT	1.2 in. To	4.8 ft. 1	bs./ft.			
					Open Hole	From		Го	ft.	
					Screen? Diameter 1.2 in.	X Typ Slot/Gauze Le 60 3	e stainless ength ft.	Make T Set 4.8 ft.	7.8 ft.	
					Static Water	: Level				
					Pumping Le	vel (below land su	rface)			
					Wellhead Control Pitless adapted	ompletion r manufacturer		Mc	odel	
					X Casing At-grad	Protection le (Environmental V		bove grade		
					Grouting In	formation we	ell Grouted?]Yes 🗶 No	Not Sp	ecified
						own Source of Con				
					Well disinfe	ected upon completi	rection	Yes	K No	Туре
					Pump Manufacturer Model Numb		led Date	Installed	:	
					Length of dro	op pipe ft	t Capacity	g.р. 7	Гур	
					Abandoned Does property	y have any not in use a	and not sealed wel	ll(s)?	Yes	X No
					Variance					
					Was a varian	ce granted from the M	DH for this well?	L	Yes	No
					First Bedrock Last Strat Located by	peat-black	Geological Sur	Depth to Bed	Quat. Water rock	ft
	ER LEVEL: FROZEN 1-1997 BY M0143	N			Locate Metho System Unique Numb		n (Screen) - Ma	p (1:24,000) (15 X 48264	4 Y 4963	3080 22/2019
					Angled Drill					
					Well Contra			40122		
					Twin City Licensee E			M0122 Reg. No.	BRABEND	
Minneso	ta Well Index	Repor	t	52	6707					n 10/25/2022 HE-01205-15

526708

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name PZ-3 LN		ownship 7	Range 23	Dir Sect W 18	ion Subsec		Well Depth 40 ft.		Depth Complete 40 ft.	ed Date 02/02/	Well Completed	l
Elevation		Elev. Me		Surveyed	CDDD	AD	Drill Method	Driven	-0 11.	Drill Fluid	1775	
Address				Surveyed			Use piezoi			211111111	Status	Sealed
Well	29	00 NICOL					Well Hydrofra		V D			Jealed
W CII	20	JO NICOL,	S KD WIN				Casing Type		Yes N	o Srom Joint	То	
Stratigraph	v Inform	ation					Drive Shoe?			Above/Below	3.91 ft.	
Geological N			From	To (ft.)	Color	Hardness	Casing Diam		eight	11.50 + 0, 25010 +		
PEAT			0	30	BLACK	SOFT	1.2 in. To	38 ft.	lbs./ft.			
SAND LOO	SE		30	40	BROWN							
							Open Hole	From	ft.	То	ft.	
							Screen?	Slot/Gauze	Type stainle Length	ess Make Set	TEEL	
							1.2 in.	60	2 ft.	38 ft.	40 ft.	
							Static Water	·Level				
							Pumping Le	vel (below la	and surface)			
							Wellhead C	ompletion				
								r manufacturer			Model	
							X Casing		ental Wells and E	in. above grade		
							Grouting In		Well Grouted?	Yes X	No Not S	Specified
							Noopost Kn	we Source	of Contamination			
								eet	Direction	1		Туре
								ected upon co	ompletion?	Yes	X No	- 7 F -
							Pump		Installed	Date Installed		
							Manufacture		UD			
							Model Numb		HP ft Capacity		⁷ olt Typ	
							Abandoned	1 F ⁻ F [*]	n cupucity	g.p.	• 7 년	
								y have any not	in use and not seale	d well(s)?	Yes	X No
							Variance					
								0	n the MDH for this	well?	Yes	No
							Miscellaneo First Bedrock			Aquifa	r Quat. Water	
							Last Strat	sand-bro	wn	Depth to l		ft
D 1							Located by	Min	nesota Geologica			
Remarks STATIC WA	TER LEV	EL: FROZE	N				Locate Metho	Digi	tization (Screen)			(21.40
SEALED 03-3							System Unique Numb	UTM - NA per Verification	D83, Zone 15, Mete	ers X 48 tion from		63140 7/22/2019
							Angled Dril		morma		. 0	
							Well Contra	nctor				
							Twin City			M0122	BRABEN	
							Licensee E	Business	Li	c. or Reg. No.	Name of I	Driller
						50	6709					
Minneso	ta We	ll Index	. Repor	t		52	6708				Printed	on 10/25/2022
												HE-01205-15

526709

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name PZ-3 LS		ownship	Range	Dir Section			Well Depth		Depth Complete		Vell Completed	
	27 17 דרד		23 thad	W 18	CDBDA	D	6 ft. Drill Method	Duizzan	6 ft.	02/02/1	1995	
Elevation Address	121.11	Elev. Me	ulou	Surveyed				Driven		Drill Fluid	Status	Sealed
	200	0 MICOL					Use piezor Well Hydrofra		T			Scaleu
Well	380	0 NICOLS	S RD MN						Yes No		То	
Stratigraph	v Inform	ation					Casing Type Drive Shoe?	Single of Yes		Joint Above/Below	2.56 ft.	
Geological N		ation	From	To (ft.)	Color	Hardness	Casing Diame		/eight	ADOVC/DEIOW	2.50 It.	
PEAT			0	6 I	BLACK	SOFT	1.2 in. To	2.7 ft.	lbs./ft.			
							Open Hole Screen? Diameter	From Slot/Gauze	ft. Type stainle e Length	To ss Make Set	ft. TEEL	
							1.2 in.	60	3 ft.	2.7 ft.	5.7 ft.	
							Static Water	Level				
							1.2 ft.	land surf	face	Measure	02/05/1993	
							Pumping Le	vel (below la	and surface)			
							Wellhead Co	moletion				
							Pitless adapter		r	Ν	Model	
								Protection	12 inental Wells and B	in. above grade		
							Grouting Inf		Well Grouted?	Yes X N	Not S	pecified
								eet	of Contamination Direction ompletion?	Yes	X No	Туре
							Pump		t Installed I	Date Installed		
							Manufacturer Madal Numb		HP	V	- 14	
							Model Numb Length of dro		ft Capacity	g.p.	olt Typ	
							Abandoned			01	51	
								y have any not	t in use and not sealed	l well(s)?	Yes	X No
							Variance Was a variance	ce granted from	m the MDH for this w	vell?	Yes	No
							Miscellaneou First Bedrock Last Strat Located by	us peat-bla		Aquifer Depth to B	Quat. Water	ft
Remarks SEALED 03-:	31-1997 BY	7 M0143					Locate Metho System	d Dig	itization (Screen) - AD83, Zone 15, Meter	Map (1:24,000) (53140
							Unique Numb		n Informat	ion from I	input Date 07	/22/2019
							Angled Drill	Hole				
							Well Contra			M0100		
							Twin City Licensee B		Lic	M0122 . or Reg. No.	BRABENI Name of D	
Minneso	ota Wel	l Index	Repor	t		520	5709					on 10/25/2022 HE-01205-15

526710

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		ownship	Range	Dir Secti			Well Depth		Depth Completed		ell Completed	
PZ-2 RN	2		23	W 18	CDAC	BC	40 ft.		40 ft.	02/02/1	993	
Elevation	726.35	Elev. Me	thod	Surveyed			Drill Method	Driven		Drill Fluid		
Address							Use piezor	meter			Status	Sealed
Well	38	00 NICOL	S RD MN				Well Hydrofra	actured?	Yes No	From	То	
							Casing Type		casing	Joint		
Stratigraph		ation	_		~ .		Drive Shoe?		No	Above/Below	1.98 ft.	
Geological I	Material		From	To (ft.)	Color	Hardness	Casing Diamo		eight			
PEAT SAND LOO	SE		0 30	30 40	BLACK BROWN	SOFT	1.2 in. To	38 ft.	lbs./ft.			
SAND LOU	5E		30	40	BROWN							
							Open Hole	From	ft.	To	ft.	
							Screen?	X Slot/Gauze	Type stainless Length	Make Set	IEEL	
							1.2 in.	60	2 ft.	38 ft.	40 ft.	
							Static Water					
							2.1 ft.	land surf	face	Measure	02/05/1993	
							Pumping Le	vel (below la	and surface)			
							Wellhead C	omplotion				
								r manufacturer		N	Iodel	
								Protection		. above grade		
									ental Wells and Bor	-		
							Grouting In	formation	Well Grouted?	Yes X N	o Not Sp	ecified
							Nearest Kno	own Source	of Contamination			
							fe	eet	Direction			Туре
							Well disinfe	ected upon co		Yes	X No	
							Pump		t Installed Da	ate Installed		
							Manufacturer Model Numb		HP	37.	14	
							Length of dro		ft Capacity	Vo g.p.	т Тур	
							Abandoned		1 1 5	8.1.	- 7 F	
							Does property	y have any not	in use and not sealed w	vell(s)?	Yes	X No
							Variance			_		
							Was a varian	ce granted from	n the MDH for this we	11?	Yes	No
							Miscellaneo					
							First Bedrock Last Strat			Aquifer Depth to Be	Quat. Water	ft
							Located by	sand-bro Mir	own mesota Geological S	-	UUUR	11
Remarks							Locate Metho		itization (Screen) - N		5 meters or	
SEALED 03-	31-1997 B	Y M0143					System	UTM - NA	D83, Zone 15, Meters	X 4820	508 Y 4963	
								ber Verificatio	n Informatio	n from I	put Date 07/2	22/2019
							Angled Dril	I Hole				
							Well Contra	actor				
							Twin City			M0122	BRABEND	
							Licensee E	susiness	Lic.	or Reg. No.	Name of Dr	iller
						57	6710					
Minneso	ota We	ll Index	Repor	t		32	0/10					n 10/25/2022
			-								I	HE-01205-15

526711

County Dakota Quad St Paul SW Quad ID 103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name PZ-2 RS	T 2	ownship	Range 23	Dir Section W 18	Subsection CDACBC		Well Depth 7 ft.		Depth Completed 7 ft.	Date W	ell Completed	
Elevation		Elev. Me		Surveyed	CDACDC		Drill Method	Driven	7	Drill Fluid	<i><i>333</i></i>	
Address	120.55	Liev. Me	linou	Surveyeu			Use piezon			Diminud	Status	Sealed
Well	201	00 NICOLS					Well Hydrofra		¥7			bealed
wen	200	JO NICOL:	S KD MIN						Yes No	From Joint	То	
Stratigraph	v Inform	ation					Casing Type Drive Shoe?	Single of Yes	No	Joint Above/Below	2.08 ft.	
Geological N			From	To (ft.) C	olor Har	dness	Casing Diame		eight	110010/201011		
PEAT			0	7 B	LACK SOF	FT	1.2 in. To	3.2 ft.	lbs./ft.			
							Open Hole Screen?	From	ft. Type stainles	To s Make	ft. TEEL	
							Diameter 1.2 in.	Slot/Gauze		Set 3.2 ft.	6.2 ft.	
							Static Water	Level				
							1.9 ft.	land sur	face	Measure	02/05/1993	
							Pumping Lev	vel (below la	and surface)			
							Wellhead Co	muletion				
							Pitless adapter			Ν	Iodel	
								Protection	ental Wells and Bo	n. above grade		
						·	Grouting Inf		Well Grouted?	Yes X N	o Not Si	pecified
							fe	et	of Contamination Direction			Туре
							Well disinfe	-	-	Yes	No	
							Pump Manufacturer Model Numbe	's name	t Installed D	Date Installed Vo	lt	
							Length of dro	p pipe	ft Capacity	g.p.	Тур	
							Abandoned	v have any not	in use and not sealed	well(s)?	Yes	X No
							Variance	, have any not	in use and not scaled	wen(s):		N NO
								ce granted from	n the MDH for this w	ell?	Yes	No
							Miscellaneou First Bedrock Last Strat		-1-	Aquifer Depth to Be	Quat. Water	ft
							Located by	peat-bla Mir	ck inesota Geological	-	UI UUK	11
Remarks SEALED 03-	31-1007 P	Y M0143					Locate Metho	d Dig	tization (Screen) -	Map (1:24,000) (1		
	51-1777 D	1 110143					System Unique Numb		D83, Zone 15, Meters n Informati			3150 22/2019
							Angled Drill		mormau			2017
							Well Contra	ctor				
							Twin City			M0122	BRABEND	
							Licensee B	usiness	Lic.	or Reg. No.	Name of Dr	riller
Minneso	ota We	ll Index	Repor	t		526	711					on 10/25/2022 HE-01205-15

526712

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

	section	Well Depth		Well Completed
	DBB	33 ft.		/1993
Elevation 723.99 Elev. Method Surveyed		Drill Method	Driven Drill Fluid	<u> </u>
Address		Use piezon		Status Sealed
Well 3800 NICOLS RD MN		Well Hydrofra	ured? Yes No From	То
		Casing Type	Single casing Joint	
Stratigraphy InformationGeological MaterialFromTo (ft.)Color	Hardness	Drive Shoe?	Yes X No Above/Below	w 2.08 ft.
Geological MaterialFromTo (ft.)ColorPEAT023BLACK	SOFT	Casing Diame	-	
SAND LOOSE 23 33 BROWN		1.2 in. To	1 ft. lbs./ft.	
		Onen Hele		
		Open Hole Screen?	From ft. To Type stainless Make	ft. • TEEL
		Diameter	Slot/Gauze Length Set	
		1.2 in.	50 2 ft. 31 ft	. 33 ft.
		Static Water	level	
		32.4 ft.	land surface Measure	02/05/1993
		Pumping Lev	l (below land surface)	
		Wellhead Co	ıpletion	
		Pitless adapter		Model
		X Casing I	otection 12 in. above grade (Environmental Wells and Borings ONLY)	
		Grouting Inf		No Not Specified
		N		
			n Source of Contamination Direction	T
		fe Well disinfe	ed upon completion? Yes	Type 🔀 No
		Pump Manufacturer	X Not Installed Date Installed	
		Model Numbe	HP	Volt
		Length of dro	pipe ft Capacity g.p.	Тур
		Abandoned		
		Variance	ave any not in use and not sealed well(s)?	Yes X No
			granted from the MDH for this well?	Yes No
		Miscellaneou	-	
		First Bedrock		er Quat. Water
		Last Strat		Bedrock ft
Remarks		Located by Locate Metho	Minnesota Geological Survey Digitization (Screen) - Map (1:24,000	(15 motors or
SEALED 03-31-1997 BY M0143		System		32522 Y 4963180
		Unique Numb		Input Date 07/22/2019
		Angled Drill	Iole	
		Well Contra	or	
		Twin City		BRABENDER, L.
		Licensee B	-	Name of Driller
	1			
Minnesota Well Index Report	52	26712		Printed on 10/25/2022 HE-01205-15

526713

CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		ownship	Range	Dir Section	Subsection	Well Depth		Depth Completed		ell Completed	
PZ-4 LS	2		23	W 18	CDBDBB	7 ft.		7 ft.	02/04/19	993	
Elevation	723.99	Elev. Me	thod	Surveyed		Drill Method	Driven		Drill Fluid	~	
Address						Use piezor	neter			Status	Sealed
Well	380	00 NICOLS	S RD MN			Well Hydrofra	actured?	Yes No	From	То	
						Casing Type		-	Joint		
Stratigraph		ation	E	T- (ft) C-	lan Handuara	Drive Shoe?		No	Above/Below	2.11 ft.	
Geological N PEAT	viaterrai		From 0	. ,	olor Hardness ACK SOFT	Casing Diame	eter W 3.2 ft.	eight lbs./ft.			
						Open Hole Screen? Diameter 1.2 in.	From K Slot/Gauze 60	ft. Type stainless Length 3 ft.	To s Make Set 3.2 ft.	ft. TEEL 6.2 ft.	
						Static Water 1.7 ft.	Level land surf	ĩace	Measure	02/05/1993	
						Pumping Le	vel (below la	and surface)			
							r manufacturer Protection le (Environm		above grade	lodel o 🗌 Not Sp	ecified
						fe Well disinfe Pump	eet ected upon co	- 1	Yes ate Installed	X No	Туре
						Manufacturer Model Numb Length of dro	er	HP ft Capacity	Vo g.p.	lt Typ	
						Abandoned			C 1		
						Does property	y have any not	in use and not sealed v	well(s)?	Yes	X No
						Variance Was a variance	ce granted fror	n the MDH for this we	e11?	Yes	No
Remarks						Miscellaneou First Bedrock Last Strat Located by	peat-bla Min	nesota Geological S	Depth to Be Survey		ft
SEALED 03-:	31-1997 B`	Y M0143				Locate Metho System Unique Numb	Digi	tization (Screen) - M D83, Zone 15, Meters n Informatio	X 4825	522 Y 4963	3180 22/2019
						Angled Drill	l Hole				
						Well Contra Twin City Licensee B	Testing	Lia	M0122 or Reg. No.	BRABENDI Name of Dri	
						Licensee B	u3111C55	LIC.	or reg. 100.		1101
Minneso	ota We	ll Index	Repor	·t	52	6713					n 10/25/2022 IE-01205-15

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CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		ownship	Range	Dir Section W 18			Well Depth		Depth Completed		ell Completed	
PZ-4 RN Elevation	2	Elev. Me	23 thad		CDBADI	5	7 ft. Drill Method	Driven	7 ft.	02/04/1 Drill Fluid	995	
Address	721.29	Liev. Me	liiou	Surveyed						Driii Fluid	Status	Sealed
	200						Use piezon					Sealed
Well	380	00 NICOLS	S RD MN				Well Hydrofra		Yes No		То	
Stratigraph	v Inform	ation					Casing Type Drive Shoe?	Single of Yes		Joint Above/Below	1.62 ft.	
Geological N		auon	From	To (ft.) C	Color H	Hardness	Casing Diame		/eight	Above/Delow	1.02 It.	
PEAT			0	7 E	BLACK S	SOFT	1.2 in. To	3.7 ft.	lbs./ft.			
							Open Hole Screen?	From	ft. Type stainles	To s Make	ft. TEEL	
							Diameter 1.2 in.	Slot/Gauze	••	Set 3.7 ft.	6.7 ft.	
							Static Water	Level				
							3.1 ft.	land sur	face	Measure	02/05/1993	
							Pumping Lev	vel (below l	and surface)			
							Wellhead Co Pitless adapter	manufacture			lodel	
								Protection e (Environm	12 in 12	n. above grade rings ONLY)		
							Grouting Inf	ormation	Well Grouted?	Yes X N	o 🗌 Not Sp	becified
							Nearest Kno	wn Source	of Contamination			
								et	Direction			Туре
							Well disinfe	cted upon co	ompletion?	Yes	X No	
							Pump Manufacturer	's name		ate Installed		
							Model Number		HP ft Capacity	Vo g.p.	lt Typ	
							Abandoned			01	71	
								y have any not	t in use and not sealed	well(s)?	Yes	X No
							Variance Was a variance	ce granted from	m the MDH for this we	ell?	Yes	No
							Miscellaneou First Bedrock Last Strat		ck	Aquifer Depth to Be	Quat. Water drock	ft
Remarks	31-1997 B	Y M0143					Located by Locate Metho System	d Dig UTM - NA	inesota Geological 3 itization (Screen) - 1 AD83, Zone 15, Meters	Map (1:24,000) (1 5 X 4825	552 Y 496	
							Unique Numb		n Informatio	on from Ir	aput Date 07/	22/2019
							Well Contra	ctor				
							Twin City	-	т.	M0122	BRABEND	
							Licensee B	usiness	Lic.	or Reg. No.	Name of Dr	mer
Minneso	ota We	ll Index	Repor	t		526	5714					n 10/25/2022 HE-01205-15

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CountyDakotaQuadSt Paul SWQuad ID103C

MINNESOTA DEPARTMENT OF HEALTH WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Well Name		ownship	Range	Dir Sect			Well Depth		Depth Completed		Vell Completed	
PZ-4 RS	2		23	W 18	CDBA	ADB	35 ft.		35 ft.	02/03/1	.993	
Elevation	721.29	Elev. Me	thod	Surveyed			Drill Method	Driven		Drill Fluid		<u> </u>
Address							Use piezoi				Status	Sealed
Well	380	00 NICOL	S RD MN				Well Hydrofra	actured?	Yes 🗌 No	From	То	
							Casing Type		-	Joint		
Stratigraph		ation	г	T (6)	C 1	TT 1	Drive Shoe?		No	Above/Below	2.46 ft.	
Geological M PEAT	laterial		From 0	To (ft.) 25	Color BLACK	Hardness SOFT	Casing Diamo		eight			
SAND LOO	SE		25	35	BROWN	5011	1.2 in. To	33 ft.	lbs./ft.			
Dillit Deco	51		23	55	BROWR							
							<u> </u>					
							Open Hole	From	ft. Type stainles	To ss Make	ft.	
							Screen? Diameter	Slot/Gauze	Length	Set	TEEL	
							1.2 in.	60	2 ft.	33 ft.	35 ft.	
							Static Water	r Level				
							32.8 ft.	land surfa	ace	Measure	02/05/1993	
							Pumning Lo	vel (below la	nd surface)			
									ina surface)			
							Wellhead Co	omplatia				
								r manufacturer		Ν	Aodel	
								Protection	12 i	n. above grade		
									ental Wells and Bo	-		
							Grouting In	formation	Well Grouted?	Yes X N	Not Sj	pecified
							fe	own Source o eet ected upon co	of Contamination Direction mpletion?	Yes	□ No	Туре
							Pump		-	Date Installed		
							Manufacture					
							Model Numb		HP	V	olt	
							Length of dro	op pipe	ft Capacity	g.p.	Тур	
							Abandoned	v have any not	in use and not sealed	well(s)?	Yes	X No
							Variance	,	not bould			IN 110
								ce granted from	n the MDH for this w	ell?	Yes	No
							Miscellaneo	us				
							First Bedrock				Quat. Water	
							Last Strat	sand-bro		Depth to B	edrock	ft
Remarks							Located by Locate Metho		nesota Geological tization (Screen) -	-	15 meters or	
SEALED 03-3	81-1997 B	Y M0143					System	Digi	D83, Zone 15, Meter			3230
							-	ber Verification				22/2019
							Angled Drill	l Hole				
							Well Contra	actor				
							Twin City			M0122	BRABEND	ER, L.
							Licensee B	-	Lic	. or Reg. No.	Name of Di	
								1				
Minneso	ta We	ll Index	Renor	t		52	6715				Printed of	on 10/25/2022
				-								HE-01205-15