

7434

PROP. 14166

RECEIVED-DNR

JUN 9 2016

Return completed forms to:

Wisconsin Department of Natural Resources
Bureau of Drinking Water & Groundwater
PO Box 7921, Madison, WI 53707-7921
dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant
Well Approval Request

Form 3300-295 (R 5/15)

Notice: Pursuant to §§ NR 812.09(4)(a) & (b), Wis. Adm. Code, prior Department of Natural Resources (DNR) approval is required for the construction, reconstruction or operation of a high capacity well or system of high capacity wells, a school well or a wastewater treatment plant well. This form is required to be completed to request approval for installation of a well or wells on a high capacity property, to modify a well on a high capacity property, or the construction or reconstruction of a school or wastewater treatment plant well. Personally identifiable information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (s.19.31-19.39, Wis. Stats.).

Applicant Information

Name and Title David Gregorich		Company Retzlaff & Gregorich Well Drilling LLC.	
Street Address 5861 Marys Rd		City New Franken	State WI
Phone Number (include area code) (920) 866-9464		Fax Number (920) 866-2432	ZIP Code 54229
Email Address championc@centurytel.net			

Owner Information (if different than applicant)

Name and Title Jerome Gaedtke		Company Gaedtke Rolling Hills Dairy Farm	
Street Address N3265 State Highway AB		City Luxemburg	State WI
Phone Number (include area code) (920) 845-5080		Fax Number	ZIP Code 54217
Email Address			

Operator Information (if different than owner)

Name and Title		Company	
Street Address		City	State
Phone Number (include area code)		Fax Number	ZIP Code
Email Address			

Submittal Purpose

Check all that apply

- Non-Potable Well(s)
- Potable Well(s) Requires Potable Attachments
- Install one or more new wells with a capacity greater than 70 gallons per minute.
- Install one or more new wells with a capacity less than 70 gallons per minute on a high capacity property.
- Replace one or more wells with a capacity greater than 70 gallons per minute.
- Replace one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- Reconstruct one or more wells with a capacity greater than 70 gallons per minute.
- Reconstruct one or more wells with a capacity less than 70 gallons per minute on a high capacity property.
- Increase pumping rate in one or more wells to a rate greater than previously approved.
- Renew a previous approval that has expired.
- Other (please describe: School, WWTP etc.) _____

Project Description

Provide a brief description of the proposed project including the number of potable wells to be installed. For non-potable wells include number of acres and expected crop rotation for agricultural irrigation wells. For potable wells serving livestock note if the facility is currently or plans to become a concentrated animal feeding operation (CAFO).

New Hi Capacity well will be use to supply 3 free stall barns and future milking parlor. The well will not be connected to the existing well . The existing well can not keep up with what they have now , they have to haul water on warm days. The other well is to replace a noncomplying well that supplies a residence.

Required Enclosures

- High Capacity Well Application (Form 3300-295)
- Potable Attachment: if a proposed well is potable (Form 3300-295A)
- \$500 application fee (see s. 281.34 (2), Wis. Stats.)
- Aerial or Plat Map with property boundaries outlined
- Well Construction Reports (if available) for existing wells
- Variance Request, if needed (Form 3300-210)

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 Bureau of Drinking Water & Groundwater – DG/5
 PO Box 7921, Madison, WI 53707-7921
dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant Well Approval Request
 Form 3300-295 (R 5/15)

This form is used to request an approval for the construction or reconstruction of a well or wells on a high capacity property, to modify an existing well on a high capacity property, or the construction or reconstruction of a school or wastewater treatment plant well. The following information will be scanned and posted as a public record on our website. Return completed application to:

Wisconsin Department of Natural Resources
 Bureau of Drinking Water & Groundwater - DG/5
 PO Box 7921
 Madison, WI 53707-7921

Applicant Information

Name and Title: David Gregorich
 Company: Retzlaff & Gregorich Well Drilling

Owner Information

Name and Title: Jerome Gaedtke
 Company: Gaedtke Rolling Hills dairy Farm

County	Town	Range	<input checked="" type="radio"/> East <input type="radio"/> West	Section	High Capacity Well File No. (if applicable)
Kewaunee	23 N	23		27	31-03-014160

Yes No

- Is a proposed well within 1,200 feet of a landfill? Landfill location: (Township/Range/Section): T R S
- Are you aware of any existing well installations on the high capacity property that are out of compliance with Chapter NR 812, Wisconsin Administrative Code? If yes, attach a description of the non-complying wells.

Existing Well Information

Enter the following information for all existing wells on the property and any contiguous property owned by the applicant.
Note: Applications are not complete unless they specify water use, pump capacities and GPS locations of existing wells.

Well Name and/or Number assigned by Owner	Water Use Code(s)	High Capacity Well Number	Pump Capacity (gpm)	Existing Well Coordinates Decimal Degrees Preferred (e.g. 45.1234, -89.1234)		WUWN or WCR Image File # (if known)
				Latitude	Longitude	
Well #1 91747	IN32	1	65	44 26548	87 41.109	NV556 44.4425 -87.6852
Well #3 91748	DS11	3	10	44 26.304	87 41.110	44.4384 -87.6852

Additional Project Information

Include any additional relevant information regarding this project such as existing wells to be abandoned, proposed non-standard construction methods or pending ownership changes

Well #3 is a noncomplying well and will be replaced with this approval.

High Capacity, School or Wastewater Treatment Plant Well Approval Request

Form 3300-295 (R 5/15)

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Proposed Well Information

Enter the following information for all proposed wells on the property. If more than two wells or alternate construction, submit additional sheets.

Well Location and Usage	<input checked="" type="radio"/> Potable	<input type="radio"/> Non-Potable	<input checked="" type="radio"/> Potable	<input type="radio"/> Non-Potable
Well Name Assigned by Well Owner (North Well, etc.):	Well# 2 91750		Well # 3 91749	
Town/Range/Section:	NE ¼ NE ¼ S 27 T 23 R 23 E		SE ¼ NE ¼ S 27 T 23 R 23 E	
Latitude :	44 26.591 44.4432		44 26.307 44.4385	
Longitude:	87 41.332 -87.6889		87 41.118 -87.6853	
Water Use Code (e.g. IR10):	IN32 Dairy manufacturing		DS11 Privt/single residence	
Proposed Maximum Water Usage Per Day in Gallons:	52500		280	
Proposed Maximum Water Usage Per Month in Gallons:	250000/30 = 83,333		8400	
Months of Operation (e.g. May - Sept):	12		12	
Proposed Pump Type & Capacity(gpm):	Submersible 75 gpm			
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	Pitless adapter		pitless adapter	
Discharge Location (Building Pressure Tank, Pond, etc.):	To heated pump room		to basement	
Distance and Direction to Nearest Public Utility Well & Well Name:	7 mi to the north		7 mi to the north	
Distance to Other Potential Contaminant Sources:	325 ft manure channel		425 ft manure pit	

Well Construction

Drilling Method(s) (Rotary, Percussion, Etc.):	Mud Rotary	Mud Rotary
Anticipated Geological Materials and Depths that are expected during drilling:		
Material and Depth Interval:	Clay from 0 ' to 40 '	Clay from 0 ' to 40 '
Material and Depth Interval:	Gravel from 40 ' to 78 '	Gavel from 40 ' to 78 '
Material and Depth Interval:	Limestone from 78 ' to 500 '	Limestone from 78 ' to 203 '
Material and Depth Interval:	from ' to '	from ' to '
Drillhole Diameter and Anticipated Depth Intervals:		
Diameter and Depth Interval:	12" from 0 ' to 80 '	8.75 from 0 ' to 78 '
Diameter and Depth Interval:	8" from 80 ' to 500 '	6" from 78 ' to 203 '

Permanent Casing or Liner Material , If Used:

Diameter and Wall Thickness:	8 " dia 28.6 " thick from 0 ' to 80 '	6 " dia 28.0 " thick from 0 ' to 78 '
Diameter and Wall Thickness:	" dia " thick from ' to '	" dia " thick from ' to '
Casing Material and Joints (Welded, T and C, etc.):	welded	welded
Weight at Depth Interval:	29.3 lbs/foot 0 ' to 80 '	19.4 lbs/foot 0 ' to 78 '
Weight at Depth Interval:	lbs/foot ' to '	lbs/foot ' to '
Screen Material and Casing to Screen Joint (Welded, T and C, K Packer, etc.):		
Screen Slot Size in Inches and Depth Interval or N/A if none:	from ' to '	from ' to '

Annular Space Material Including Filter Pack Material, If Used:

Material and Depth Interval:	Cement / 0 ' to 80 '	dill mud / 0 ' to 78 '
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Applicant Signature

By signing this form, I certify that to the best of my knowledge, all information in the application is accurate and correct. I understand that unsigned or incomplete applications will not be approved.

Name – Print	Select One:	<input checked="" type="radio"/> Owner	<input type="radio"/> Agent of Owner
Signature	Company	Date	

Return completed forms to:

State of Wisconsin, Department of Natural Resources
Bureau of Drinking Water & Groundwater – DG/5
PO Box 7921, Madison, WI 53707-7921
dnr.wi.gov

**Potable High Capacity Well
Attachment**

Form 3300-295A (R 5/15)

Notice: This attachment is not intended to be used when seeking approval for construction or modification of wells or surface water systems regulated under ch. NR 811, Wis. Adm. Code. Any water system serving 7 or more homes, 10 or more mobile homes, 10 or more apartments, 10 or more condominiums, or 10 or more duplexes is regulated under ch. NR811, Wis. Adm. Code. See NR 811.01 Wis. Adm. Code for applicability requirements.

Property Information

Yes No

- Will a proposed well be connected to a plumbing system that is supplied by another water source (other wells, municipal supply, etc.)? **If yes include a schematic drawing as described in the potable attachments below.**
- Is a proposed well to be used for a transient non-community or non-transient non-community public water supply system? For water system diagram go to: dnr.wi.gov/topic/DrinkingWater/documents/publicdiagram.pdf
- Is a non-pressurized storage vessel proposed? If yes, provide drawings and specifications.
- Is a pressurized tank with a capacity greater than 1,000 gallons proposed? If yes, provide drawing(s) and specifications.
- Are you seeking a variance to construct a well that has a capacity of less than 70 gallons per minute to low capacity well construction standards?

Proposed Potable Project Description

For potable wells describe the project, include the type of well (Private, Public, School, WWTP) and note the planned storage type and volume (e.g. 500 gallon pressure tank, 500 gallon bladder tank).

Water line from well will go into a heated pump room where a 20 gal bladder tank will be installed. The pump will be a constant pressure pump. There will be a check valve after the pressure tank and then a main shut off valve.

Existing Potable Well Information

For existing potable well(s) on the property without a well construction report, provide a description of the known construction information about the well (e.g. 2" unscreened point well drilled in 1950's, 6" sandstone well unscreened).

Note: More information or an inspection of an existing well may be required before approval.

Potable Attachments

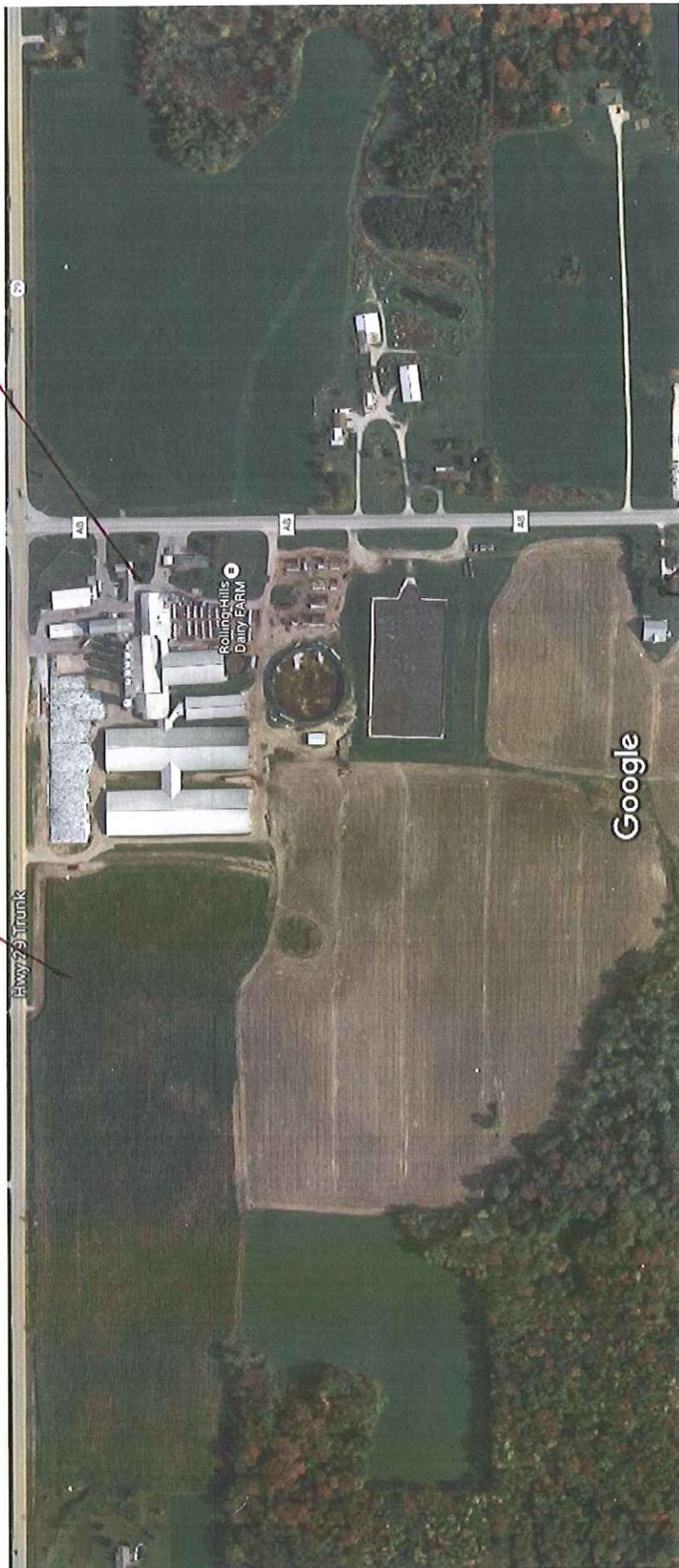
1. Enclose a sketch map showing all of the following that are planned or exist within 300 feet of each proposed potable well: proposed well location; other wells; property boundary; wetlands; potential contamination sources (septic tank and drainfield, petroleum storage tanks, sewer lines, etc.); buildings and north arrow. If there are no pertinent features to map within 300 feet of the proposed well state that on the required property map and plot the well locations.
2. If more than one well is connected to a common plumbing system, also provide a schematic drawing of the system showing method of preventing backflow. This sketch should include the well discharge (pitless, over top of casing sanitary seal); the water line from the well; pressure tanks; sampling faucets; check valves; backflow preventers; air gaps; manually operated valves; water meters; pressure switches for pumps; and any other pertinent fittings. This schematic drawing should also identify which of these components are buried or above ground. If there is more than one check valve within the casing, include in-well check valves on the schematic.



Google Maps

Proposed 41 cap Well

Existing Well # NU 556

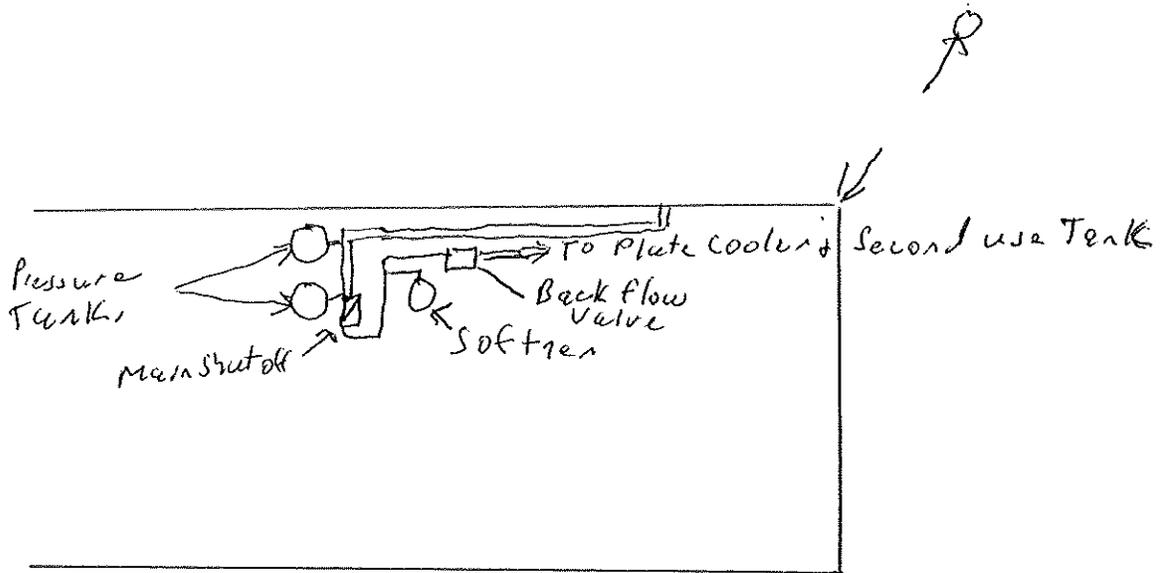


Residential Replacement Well

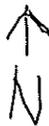
Existing Non-Complying Well

Imagery ©2016 Google, Map data ©2016 Google 200 ft

Existing Well # NV556 Pump Installation

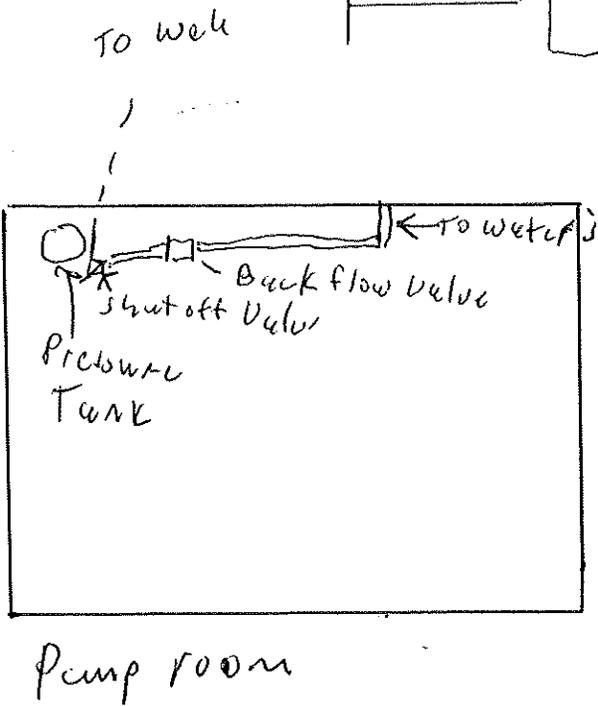
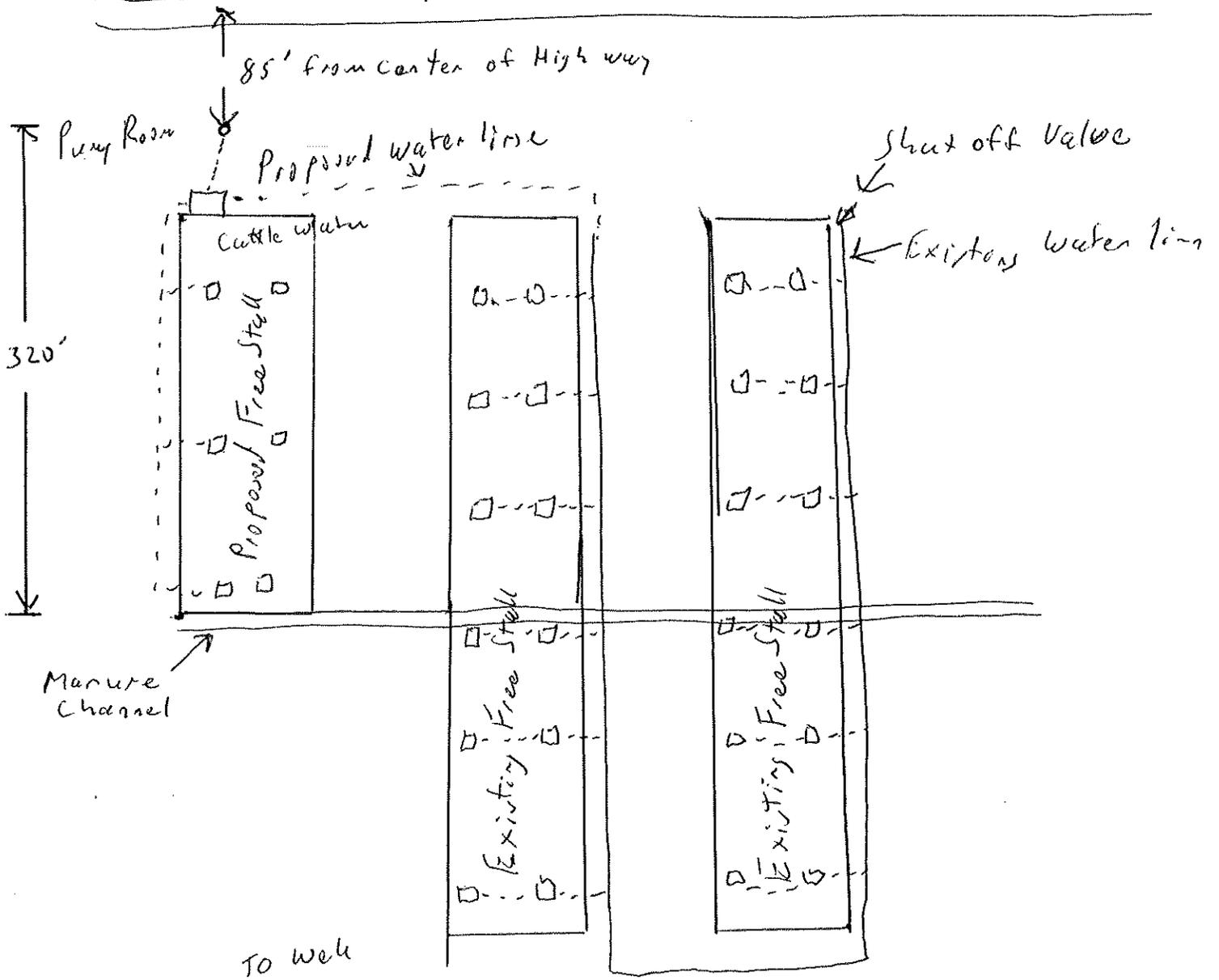


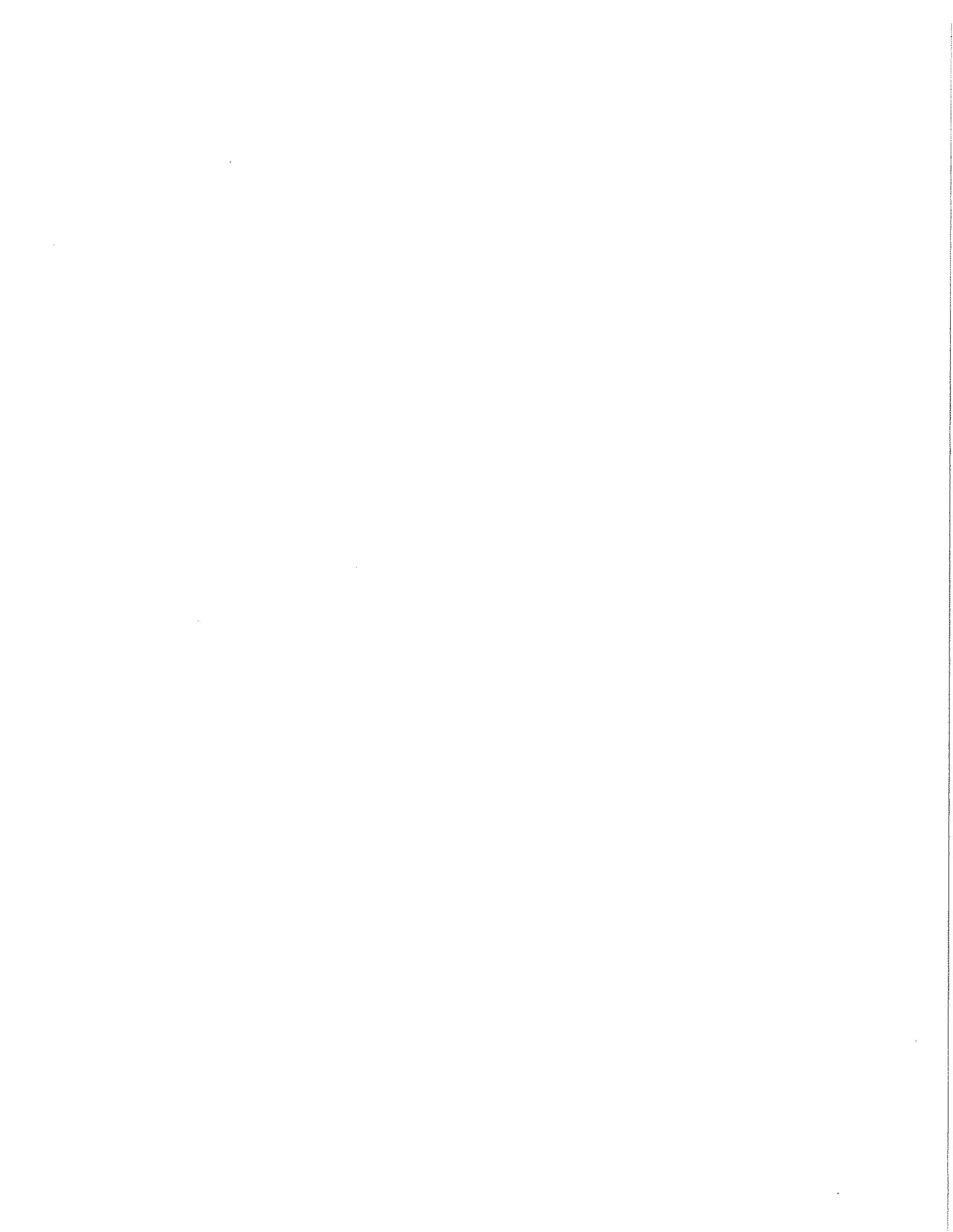
Second use water enters tank at the top with an air gap same for the plate cooler water



Proposed Hi-Cap Well Pump Installation

Highway 29





WISCONSIN UNIQUE WELL NUMBER
Source: WELL CONSTRUCTION **NV556**

State of Wi-Private Water Systems-DG/2
 Department Of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (Rev 02/02)bw

Property Owner **GAEDTKE ROLLING HILLS FARM** Telephone Number **920 -845 -5080**

1. Well Location Depth **203** FT
 T=Town C=City V=Village
 T of **MONTPELIER** Fire#

Mailing Address **N3265 STATE RD AB**

City **LUXEMBURG** State **WI** Zip Code **54217**

Street Address or Road Name and Number
N3265 STATE RD AB

County of Well Location **NE** Co Well Permit No **W** Well Completion Date **March 30, 2000**

Subdivision Name Lot# Block #

Well Constructor **RETZLAFF WELL DRILLING INC** License # **86** Facility ID (Public)

Gov't Lot or **NE** 1/4 of **NE** 1/4 of

Address **PO BOX 81** Public Well Plan Approval#

Section **27** T **23** N R **23** E

City **LUXEMBURG** State **WI** Zip Code **54217** Date Of Approval

2. Well Type **1** (See item 12 below)

Hicap Permanent Well # Common Well # Specific Capacity **.5** gpm/ft

1=New 2=Replacement 3=Reconstruction
 of previous unique well # _____ constructed in _____

3. Well Serves # of homes and or **FARM**
P (eg: barn, restaurant, church, school, industry, etc.) High Capacity: Well? **N**

Reason for replaced or reconstructed Well?

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole Property? **N**

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? **Y**

- Well located in floodplain? **N**
 Distance in feet from well to nearest: (including proposed)
- | | | |
|---------------------------------------|--|--|
| 1. Landfill | 9. Downspout/ Yard Hydrant | 17. Wastewater Sump |
| 10 2. Building Overhang | 10. Privy | 18. Paved Animal Barn Pen |
| 40 3. 1=Septic 2= Holding Tank | 11. Foundation Drain to Clearwater | 100 19. Animal Yard or Shelter |
| 80 4. Sewage Absorption Unit | 12. Foundation Drain to Sewer | 150 20. Silo |
| 5. Nonconforming Pit | 13. Building Drain | 75 21. Barn Gutter |
| 6. Buried Home Heating Oil Tank | 1=Cast Iron or Plastic 2=Other | 22. Manure Pipe 1=Gravity 2=Pressure |
| 7. Buried Petroleum Tank | 14. Building Sewer 1=Gravity 2=Pressure | 1=Cast iron or Plastic 2=Other |
| 8. 1=Shoreline 2= Swimming Pool | 15. Collector Sewer: ___ units ___ in. diam. | 300 23. Other manure Storage HARVESTER |
| | 16. Clearwater Sump | 24. Ditch |
| | | 25. Other NR 812 Waste Source |

5. Drillhole Dimensions and Construction Method

From (ft)	To (ft)	Upper Enlarged Drillhole	Lower Open Bedrock
8.8	surface	78	
6.0	78	203	

X -- 1. Rotary - Mud Circulation -----
 -- 2. Rotary - Air -----
 -- 3. Rotary - Air and Foam -----
 -- 4. Drill-Through Casing Hammer
 -- 5. Reverse Rotary
 -- 6. Cable-tool Bit _____ n. dia -----
 -- 7. Temp. Outer Casing _____ in. dia. _____ depth ft.
 Removed ?
 Other

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__C__	CLAY	0	40
__G__	GRAVEL	40	78
__L__	LIMESTONE	78	203

6. Casing Liner Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6.0	SAWHILL STEEL P.E. 18.97/FT BLACK NEW ASTM-A-53-B MADE IN U.S.A.	surface	78

Dia. (in.)	Screen type, material & slot size	From	To

9. Static Water Level
37.0 feet **B** ground surface
 A=Above B=Below

11. Well Is: 14 in. A Grade
 A=Above B=Below

Developed? **Y**
 Disinfected? **Y**
 Capped? **Y**

7. Grout or Other Sealing Material

Method	Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	CLAY SLURRY	surface	78.0	

10. Pump Test
 Pumping level **120.0** ft. below surface
 Pumping at **45.0** GP M **1.0** Hrs

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? **Y**
 If no, explain

13. Initials of Well Constructor or Supervisory Driller **JR** Date Signed **3/31/00**
 Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed