

Appendix VII:
Non-Potable High Capacity Well
Approval Application

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

Non-Potable High Capacity Well Approval Request

Form 3300-295 (R 5/14)

Page 1 of 4

Notice: Prior department approval is required for the construction, reconstruction or operation of a non-potable high capacity well or system of non-potable high capacity wells in accordance with Section NR 812.09(4)(a), Wis. Adm. Code. Use this form to request an approval for installation of a well or wells on a high capacity property or to modify a well on a high capacity property. 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.).

1. Applicant Information

Owner (Name of Person and Title) John Dustman, Principal		Company Summit Envirosolutions	
Street Address 1217 Bandana Boulevard North		City St. Paul	State MN
		ZIP Code 55108	
Phone Number (include area code) (612)-750-4024	Fax Number (651)-647-0888	Email Address jdustman@summitte.com	

2. Owner Information (if different than applicant)

Owner (Name of Person and Title) Loran B. Zwiefelhofer		Company PurFrac, LLC	
Street Address 14411 County Highway DD		City Bloomer	State WI
		ZIP Code 54724	
Phone Number (include area code) (715)-568-4910	Fax Number	Email Address	

3. Operator Information

Operator, if different than owner (Name of Person and Title) Bruce Durand		Company PurFrac, LLC	
Street Address 326 Thompson Street		City Bloomer	State WI
		ZIP Code 54724	
Phone Number (include area code) (715)-205-4510	Fax Number	Email Address	

4. Submittal Purpose

Check all that apply

- 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, explain

5. Project Description

Provide a brief description of the proposed project. Include number of acres and expected crop rotation for agricultural irrigation wells. The drilling and installation of one high capacity well capable of pumping 600 gallons per minute for the purpose of silica mining and one potable water well (Public Transient) to serve site personal.

6. Required Enclosures

- Non-Potable High Capacity Well Application Form.
- Aerial or Plat Map with property boundaries outlined.
- Variance Request, if needed (Form 3300-210)
- \$500 application fee (See s. 281.34 (2), Wis. Stats.)
- Well Construction Reports (if available) for existing wells.

**Non-Potable High Capacity Well
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Notice: Prior department approval is required for the construction, reconstruction or operation of a non-potable high capacity well or system of non-potable high capacity wells in accordance with Section NR 812.09(4)(a), Wis. Adm. Code. Use this form to request an approval for installation of a well or wells on a high capacity property or to modify a well on a high capacity property. 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

Application Prepared By (Name and Title) John Dustman, Principal	Company Summit Envirosolutions
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Property Information

Property owner, if different than applicant (Name of Person and Title) Loran Zwiefelhofer	Company PurFrac, LLC
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County Chippewa	Town 30 N	Range 10	<input type="radio"/> East <input checked="" type="radio"/> West	Section 29	High Capacity Well File No. (if applicable)
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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, please 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	
Schindler Well #1	DS11		12	45.05358	-91.624062	CM017
Sarauer	DS11		12	45.039203	-91.61887	KM832
Zwiefelhofer	DS11		20	45.050153	-91.608703	UL643

Additional Project Information

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

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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

Well Name Assigned by Well Owner (North Well, etc.):	H-C Well #1	TW #1
Town/Range/Section:	SE ¼ SE ¼ 29 S 30 T 10 R W	SE ¼ SE ¼ 29 S 30 T 10 R W
Latitude :	45.046	45.046
Longitude:	-91.615	-91.615
Water Use Code (e.g. IR10):	IN61 Mining, quarrying	PS41 Public/transient
Proposed Maximum Water Usage Per Day in Gallons:	864,000	9,600
Proposed Maximum Water Usage Per Month in Gallons:	26,784,000	297,600
Months of Operation (e.g. May - Sept):	late March to early December	Continuous
Proposed Pump Type & Capacity(gpm):	Submersible/ 600 gpm	Submersible/ 20 gpm
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	Over Top of Casing	Pitless Adaptor
Discharge Location (Building Pressure Tank, Pond, etc.):	Wash Plan Clarifier/Freshwater Pond	Building Pressure Tank
Distance and Direction to Nearest Public Utility Well & Well Name:		
Distance to Other Potential Contaminant Sources:		

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:	Sand from 0 ' to 10 '	Sand from 0 ' to 10 '
Material and Depth Interval:	Sandstone and Shale from 10 ' to 150 '	Sandstone and Shale from 10 ' to 100 '
Material and Depth Interval:	Sandstone from 150 ' to 225 '	from ' to '
Material and Depth Interval:	from ' to '	from ' to '
Drillhole Diameter and Anticipated Depth Intervals:		
Diameter and Depth Interval:	18 from 0 ' to 150 '	8 from 0 ' to 100 '
Diameter and Depth Interval:	12 from 150 ' to 225 '	from ' to '

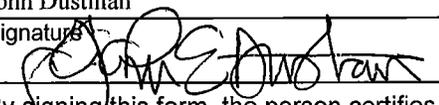
Permanent Casing or Liner Material , If Used:

Diameter and Wall Thickness	12 " dia 0.37" thick from 0 ' to 150 '	4 " dia 0.25 " thick from 0 ' to 80 '
Diameter and Wall Thickness	" dia " thick from ' to '	" dia " thick from ' to '
Diameter and Wall Thickness	" dia " thick from ' to '	" dia " thick from ' to '
Casing Material and Joints (Welded, T and C, etc.):		
Weight at Depth Interval	40 lbs/foot 0 ' to 150 '	10.79 lbs/foot 0 ' to '
Weight at Depth Interval	lbs/foot ' to '	lbs/foot ' to '
Screen Material and Casing to Screen Joint (Welded, T and C, K Packer, etc.)	N/A	SS Welded
Screen Slot Size in Inches and Depth Interval or N/A if none:	Open Hole from 150 ' to 225 '	20 Slot from 80 ' to 100 '

Annular Space Material Including Filter Pack Material, If Used:

Material and Depth Interval:	Neat Cement / 0 ' to 150 '	Neat Cement / 0 ' to 80 '
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Applicant Signature

Name - Print	Select One:	
John Dustman	<input type="radio"/> Owner	<input checked="" type="radio"/> Agent of Owner
Signature	Company	Date
	Summit Envirosolutions	2-17-2015

By signing this form, the person certifies that to the best of his or her knowledge, all information in the application is accurate and correct. Unsigned or incomplete applications will not be approved

Property Owner **THOMAS-SCHINDLER** Telephone Number **715-568-1034**

Mailing Address **RT 2 BOX 183**

City **BLOOMER** State **WI** Zip Code **54724**

County of Well Location **9 CHIPPEWA WC** Co Well Permit No **W W04824** Well Completion Date **May 21, 1991**

Depth **185** FT

1. Well Location
T=Town C=City V=Village
T of **COOKS VALLEY** Fire#

Street Address or Road Name and Number
MOUNTAIN RD

Subdivision Name Lot# Block #

Well Constructor **MICHAEL J WETTSTEIN** License # **206** Facility ID (Public)

Address **RT 2 BOX 130C** Public Well Plan Approval#

City **EAU CLAIRE** State **WI** Zip Code **54703** Date Of Approval

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

Gov't Lot or **SE** 1/4 of **NW** 1/4 of
Section **29** T **30** N R **10** W

2. Well Type 1 (See item 12 below)
1=New 2=Replacement 3=Reconstruction
of previous unique well # _____ constructed in **0**

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

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

Reason for replaced or reconstructed Well?
NEW HOME
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
65 3. 1=Septic 2= Holding Tank	11. Foundation Drain to Clearwater	19. Animal Yard or Shelter
75 4. Sewage Absorption Unit	12. Foundation Drain to Sewer	20. Silo
5. Nonconforming Pit	30 13. Building Drain 1 1=Cast Iron or Plastic 2=Other	21. Barn Gutter
6. Buried Home Heating Oil Tank	50 14. Building Sewer 1 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other	22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
7. Buried Petroleum Tank	15. Collector Sewer: ___ units ___ in . diam.	23. Other manure Storage
8. 1=Shoreline 2= Swimming Pool	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
10.0	surface	46	
6.0	46	185	

-- 1. Rotary - Mud Circulation -----
 -- 2. Rotary - Air -----
 X -- 3. Rotary - Air and Foam -----
 -- 4. Drill-Through Casing Hammer
 -- 5. Reverse Rotary
 -- 6. Cable-tool Bit _ in. dia -----
 X -- 7. Temp. Outer Casing **10** in. dia. ____ depth ft.
 Removed ? **X**
 Other

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
T_X_	BROWN SAND AND CLAY	0	10
T_N_	LIGHT BROWN SANDROCK	10	75
T_N_	BROWN SANDROCK	75	145
T_N_	LIGHT BROWN SANDROCK	145	185

6. Casing Liner Screen Material, Weight, Specification From To

Dia. (in.)	Manufacturer & Method of Assembly	(ft.)	(ft.)
6.0	NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTMA53B 1780 PSI	surface	46

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

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

10. Pump Test
Pumping level **115.0** ft. below surface
Pumping at **12.0** GP **5.0** Hrs

11. Well Is: 20 in. A Grade
Developed? **Y** A=Above B=Below
Disinfected? **Y**
Capped? **Y**

7. Grout or Other Sealing Material

Method	From (ft.)	To (ft.)	# Sacks Cement
PRESSURE TREMIE LINE Kind of Sealing Material CLEAR CEMENT @ WATER	surface	46.0	15

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 Date Signed
MW 6/14/91

Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed
MW 6/14/91

Property Owner **SARAUER, STEVE** Telephone Number **715-568-1961**

Mailing Address **RT 2 BOX 190**

City **BLOOMER** State **WI** Zip Code **54724**

County of Well Location **WC** Co Well Permit No **W12549** Well Completion Date **September 28, 1995**

1. Well Location Depth **200** FT

T=Town C=City V=Village
 T of **COOK VALLEY** Fire#

Street Address or Road Name and Number
QUARRY ROCK LN

Subdivision Name Lot# Block #

Well Constructor **MICHAEL J WETTSTEIN** License # **206** Facility ID (Public)

Address **RT 2 BOX 130C** Public Well Plan Approval#

City **EAU CLAIRE** State **WI** Zip Code **54703** Date Of Approval

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

Gov't Lot or **SW** 1/4 of **NE** 1/4 of
 Section **32** T **30** N R **10** W

2. Well Type **1** (See item 12 below)
 1=New 2=Replacement 3=Reconstruction
 of previous unique well # _____ constructed in **0**

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

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

Reason for replaced or reconstructed Well?
NEW HOME

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	19. Animal Yard or Shelter
100 4. Sewage Absorption Unit	12. Foundation Drain to Sewer	20. Silo
5. Nonconforming Pit	13 Building Drain 1	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	25 14. Building Sewer 1 1=Gravity 2=Pressure	1=Cast iron or Plastic 2=Other
8. 1=Shoreline 2= Swimming Pool	15. Collector Sewer: ___ units ___ in . diam.	23. Other manure Storage
	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
10.0	surface	42	
6.0	42	200	

-- 1. Rotary - Mud Circulation -----
 -- 2. Rotary - Air -----
 X -- 3. Rotary - Air and Foam -----
 -- 4. Drill-Through Casing Hammer
 -- 5. Reverse Rotary
 -- 6. Cable-tool Bit ___ in. dia -----
 X -- 7. Temp. Outer Casing **10** in. dia. ___ depth ft.
 Removed ? **X**
 Other

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
T_C_	BROWN CLAY	0	60
T_N_	BROWN SANDROCK	6	75
G_N_	LIGHT GRAY SANDROCK	75	170
T_N_	LIGHT BROWN SANDROCK	170	200

6. Casing Liner Screen Material, Weight, Specification From To

Dia. (in.)	Manufacturer & Method of Assembly	(ft.)	(ft.)
6.0	NEW STEEL THREADED @ CUPPLED 20 LBS PER FT ASTMA53B 1800 PSI	surface	42

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

(in.)		(ft.)	(ft.)
	NONE		

9. Static Water Level **110.0** feet **B** ground surface
 A=Above B=Below

10. Pump Test
 Pumping level **110.0** ft. below surface
 Pumping at **12.0** GP M **3.0** Hrs

11. Well Is: 15 in. A Grade
 A=Above B=Below
 Developed? **Y**
 Disinfected? **Y**
 Capped? **Y**

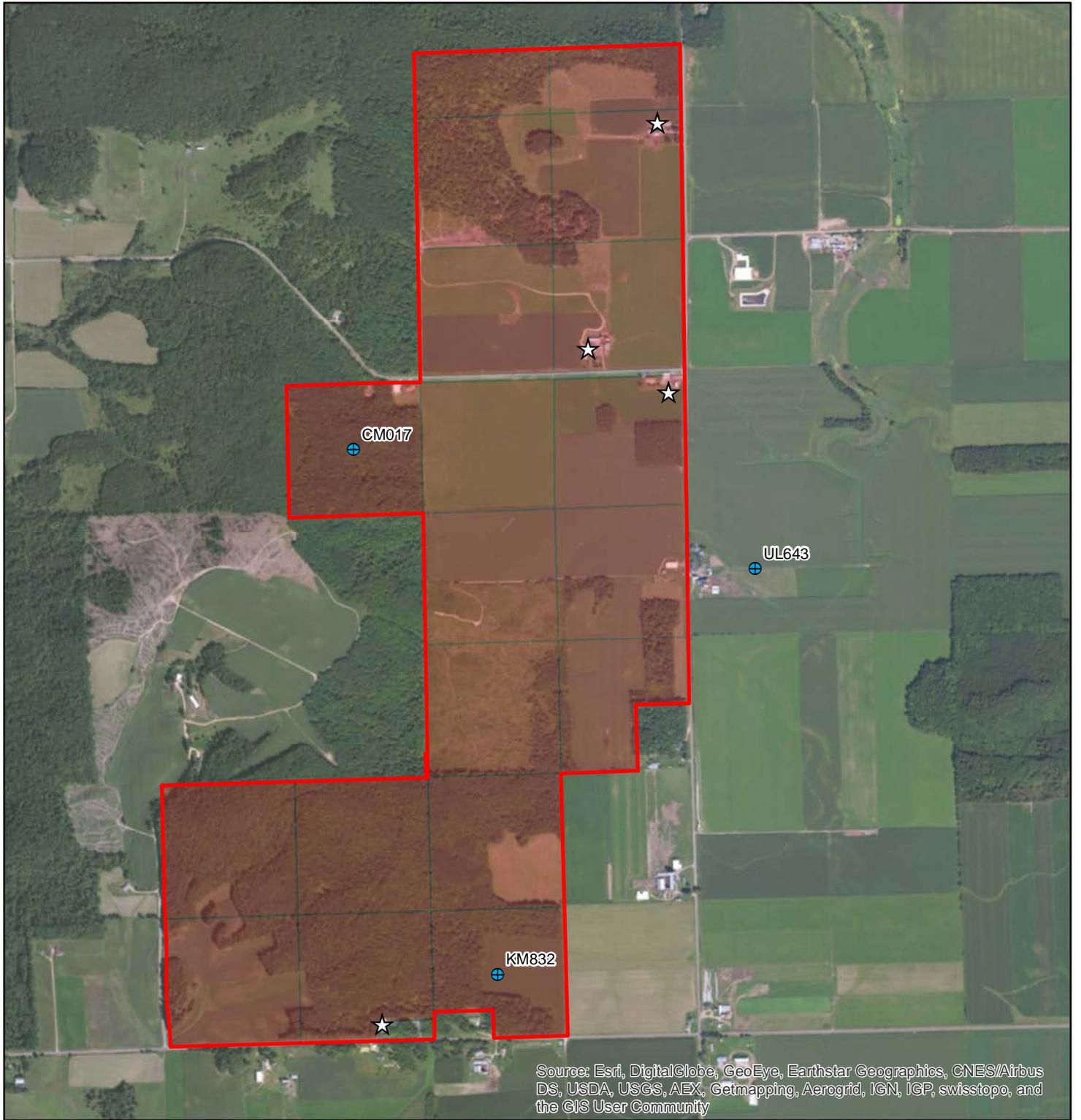
7. Grout or Other Sealing Material

Method	From (ft.)	To (ft.)	# Sacks Cement
TREMIE PIPE PUMPED			
CLEAR CEMENT @ WATER	surface	42.0	12 S

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 Date Signed
 MW 10/4/95

Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed
 MW 10/4/95



Legend

 Site Boundary

 Water Wells

 Suspected Wells



0  2,000
Feet

PROPERTY AND WELL LOCATIONS
PurFrac LLC
Town of Cooks Valley
Chippewa County, Wisconsin



Figure 1

File: PropertyOwners_and_Wells
Summit Proj. No.: 2232-0001
Plot Date: 02/16/2015
Arc Operator: KLM
Reviewed by: JED