

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County Jackson		Twp. Leoni	Fraction SE 1/4 SE 1/4 NE 1/4	Section No. 13	Town ² T1S N/S.	Range R1E E/W.
Distance And Direction from Road Intersections 1 1/2 MI SE Race & Chicago Chicago Rd., Welch Lk., Leoni, Michigan Street address & City of Well Location					3 OWNER OF WELL: Willard Collins Address 18305 Wisconsin Detroit, Michigan			
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) 64 ft. Date of Completion 5/9/67					
Sand	20	20	5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐					
Hard sand and gravel	18	38	6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐					
Water sand	26	64	7 CASING: Diam. Threaded ☒ Welded ☐ Height: Above *** surface 1 ft. 4 in. to 61 ft. Depth Weight 11 lbs./ft. ____ in. to ____ ft. Depth Drive Shoe? Yes ☒ No ☐					
			8 SCREEN: Type: Brass Dia.: 4 Slot/ ### #10 Length 6' Set between 58 ft. and 64 ft. Fittings:					
			9 STATIC WATER LEVEL 38 ft. below land surface					
			10 PUMPING LEVEL below land surface 42 1/2 ft. after 2 hrs. pumping 30 g.p.m. ____ ft. after ____ hrs. pumping ____ g.p.m.					
			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____					
			12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade					
			13 GROUTING: Well Grouted? ☐ Yes ☒ No Material: ☐ Neat Cement ☐ _____ Depth: From ____ ft. to ____ ft.					
			14 SANITARY: Nearest Source of possible contamination 55 feet NE Direction S. Tank Type Well disinfected upon completion ☒ Yes ☐ No					
			15 PUMP: Manufacturer's Name Not installed Model Number _____ HP _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating					
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. *CORRECTED BY: **ADDITION BY:			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. FOX BROTHERS DRILLERS 187 REGISTERED BUSINESS NAME REGISTRATION NO. Address Route #6, Jackson, Michigan 49201 Signed Shirley Fox Date 5/15/67 AUTHORIZED REPRESENTATIVE					

MICHIGAN DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY DIVISION

Page	
of	
Sample No.	

Permit No.	
Owner No.	

WATER WELL RECORD

County	Jackson	Twp.	Henrietta	Sec.	13	Town	1 N/S.	Range	1 E/W.
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Distance from Roads, Section Lines, etc.

in Henrietta

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Owner:
Drip	100	100	Phel Davis
Dark lime r.	4	104	Address:
light gray lime r	16	120	Driller and Address:
layers of hard gray lime and sand	45	165	Well Depth: 165 ft. Date of Completion July 31, 1943
			☐ Cable tool ☐ Rotary ☒ Dug ☐ R.C. ☐ Driven ☐ Jetted ☐ Bored
			Use: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Dewatering ☐ Test Well ☐ _____
			Casing: Diam. 3 in. to 105 ft. Depth 3 in. to 105 ft. Depth Height: Above/Below surface _____ ft. Type-Weight _____
			Screen:
			Type: _____ Dia: _____
			Slot/Gauze _____ Length _____
			Set between _____ ft. and _____ ft.
			Accessories:
			Water level: _____ ft. above/below _____
			_____ ft. above/below _____
			Meas. by _____ Date _____
			Drawdown:
			_____ ft. after _____ hrs. pumping _____ g.p.m.
			_____ ft. after _____ hrs. pumping _____ g.p.m.
			Meas. by _____ Date _____
			Flow:
			g.p.m./g.p.h. _____ Temp: _____ °F
			Water Quality in Parts Per million:
			Iron (Fe) _____ Chlorides (Cl) _____
			Hardness _____
			Elevation:
			ft. above _____
			Source of data:
			Drilled/Record Sheet
			Record by: _____ Date: 5-15-74
Remarks:			

MICHIGAN DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY DIVISION

Page	of
Sample No.	

Permit No.
Owner No.

WATER WELL RECORD

County <u>Jackson</u>	Twp. <u>Henrietta</u>	Sec. <u>13</u>	Town <u>1</u> N/S.	Range <u>1</u> E/W.
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Distance from Roads, Section Lines, etc.

MUNITH #

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Owner <u>Elwin Pickett</u>
<u>Drift</u>	<u>80</u>	<u>80</u>	Address:
<u>Layers of dark lime,</u>	<u>95</u>	<u>175</u>	Driller and Address: <u>D.S.G.S. Andrew Sanford, Emmet Ashbaugh</u>
<u>slate shale</u>			Well Depth: <u>195</u> ft. Date of Completion <u>Nov 13, 1974</u>
<u>Brown sand rock</u>	<u>5</u>	<u>180</u>	☐ Cable tool ☐ Rotary ☐ Dug ☐ R.C. ☐ Driven ☐ Jettied ☐ Bored
<u>Dark lime rock</u>	<u>15</u>	<u>195</u>	Use: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Dewatering ☐ Test Well ☐ _____
			Casing: Diam. <u>3</u> in. to <u>80</u> ft. Depth <u>gal. D.P.</u> Height: Above/Below surface _____ ft. Type-Weight _____ _____ in. to _____ ft. Depth
			Screen:
			Type: _____ Dia: _____
			Slot/Gauze _____ Length _____
			Set between _____ ft. and _____ ft.
			Accessories:
			Water level: <u>160</u> ft. above/below _____
			_____ ft. above/below _____
			Meas. by _____ Date _____
			Drawdown: <u>15</u> ft. after _____ hrs. pumping <u>9</u> g.p.m.
			_____ ft. after _____ hrs. pumping _____ g.p.m.
			Meas. by _____ Date _____
			Flow: _____ g.p.m./g.p.h. Temp: _____ °F
			Water Quality in Parts Per Million:
			Iron (Fe) _____ Chlorides (Cl) _____
			Hardness _____
			Elevation: _____ ft. above _____
			Source of data: <u>Driller's Record Sheet</u>
			Record by: <u>CMG</u> Date: <u>5-15-74</u>
Remarks:			

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County <u>Tackson</u>		Twp. <u>Leoni</u>		Fraction <u>SE 1/4 SE 1/4 NE 1/4</u>		Section No. <u>13</u>		Twp. <u>T1S</u> N/S. <u>R1E</u> E/W.	
Distance And Direction from Road Intersections <u>3/8 mi SE Race & Chicago</u>						OWNER No. _____					
Street address & City of Well Location <u>909 Chicago Rd., Welch Lk., Leoni, Mich.</u>						3 OWNER OF WELL: <u>Mary Shy</u> Address <u>6379 Hazlett</u> <u>Detroit, Michigan</u>					
2 FORMATION		THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		4 WELL DEPTH: (completed) Date of Completion <u>60</u> ft. <u>5/2/67</u>					
<u>Sand, stones & some gravel</u>		<u>26</u>		<u>26</u>		5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐					
<u>Hard cemented gravel</u>		<u>12</u>		<u>38</u>		6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐					
<u>Sand & water</u>		<u>22</u>		<u>60</u>		7 CASING: Threaded ☒ Welded ☐ Diam. <u>4</u> in. to <u>21</u> ft. Depth Weight <u>11</u> lbs./ft. Drive Shoe? Yes ☒ No ☐					
						8 SCREEN: Type: <u>Slotted</u> Dia.: <u>4"</u> Slot/Gauze <u>10</u> Length <u>6'</u> Set between <u>54</u> ft. and <u>60</u> ft. Fittings:					
						9 STATIC WATER LEVEL <u>35'</u> ft. below land surface					
						10 PUMPING LEVEL below land surface <u>37'</u> ft. after <u>2</u> hrs. pumping <u>20</u> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.					
						11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____					
						12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade					
						13 GROUTING: Well Grouted? ☐ Yes ☒ No Material: ☐ Neat Cement ☐ _____ Depth: From _____ ft. to _____ ft.					
						14 SANITARY: Nearest Source of possible contamination <u>60'</u> feet <u>E</u> Direction <u>S. Tank</u> Type Well disinfected upon completion ☒ Yes ☐ No					
						15 PUMP: Manufacturer's Name <u>Red Jacket</u> Model Number <u>30N17BB</u> HP <u>1/2</u> Length of Drop Pipe <u>50'</u> ft. capacity <u>10</u> G.P.M. Type: ☒ Submersible ☐ _____ ☐ Jet ☐ Reciprocating					
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. *CORRECTED BY: **ADDITION BY:						17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. FOX BROTHERS DRILLERS <u>167</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>Route #6, Tackson, Mich. 49201</u> Signed <u>[Signature]</u> Date <u>5/2/67</u> AUTHORIZED REPRESENTATIVE					

MAY 23 1967

GEOLOGICAL SURVEY COPY

ACT 294 PA 1965

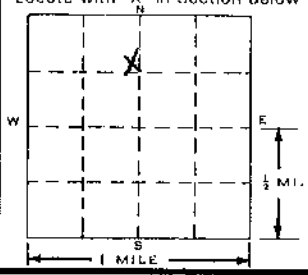
MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

D67d 100M (Rev. 12-68)

WATER WELL AND PUMP RECORD

PERMIT NUMBER

3241

1 LOCATION OF WELL			3 OWNER OF WELL:		
County JACKSON	Township Name HENRIETTA	Fraction SE 1/4 NE 1/4 NW 1/4	Section Number 13	Town Number T1S N1S	Range Number R1E E1W
Distance And Direction From Road Intersection 2/10 mi S M-106 & Roberts Rd 10787 Roberts			Address William Zornow 10787 Roberts Dr Munith, MI 49259		
Street Address & City of Well Location			Address Same As Well Location? ☒ Yes ☐ No		
Locate with "X" in Section Below 			Sketch Map: M-106 Roberts Dr		
2 FORMATION DESCRIPTION			4 WELL DEPTH:		
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Date Completed MO. DAY YEAR ☐ New Well ☒ Replacement Well		
Sand	12	12	52 FT. 5 22 91		
Clay	7	19	☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug		
Sand, gravel and shale	23	42	☐ Hollow rod ☐ Auger ☐ Jetted ☐		
Sharp sand and gravel	11	53	6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public		
			☐ Irrigation ☐ Type IIa Public ☐ Heat pump		
			☐ Test Well ☐ Type IIb Public ☐		
			7 CASING: ☐ Steel ☐ Threaded ☐ Welded		
			☒ Plastic ☐		
			Height: Above/Below Surface 1 ft.		
			Weight 2 lbs./ft.		
			Grouted Drill Hole Diameter ☒ Yes ☐ No		
			8 SCREEN: ☐ Not Installed		
			Type stainless Diameter 4"		
			Slot/Gauze .012 Length 4'		
			Set between 49 ft. and 52 ft.		
			FITTINGS: ☒ K-Packer ☐ Lead Packer ☐ Bromer Check		
			☐ Blank above screen 1.5 ft. Other _____		
			9 STATIC WATER LEVEL: ☐ Flow		
			14 ft. below land surface		
			10 PUMPING LEVEL: below land surface		
			16 ft. after 1 hrs. pumping at 20 G.P.M.		
			_____ ft. after _____ hrs. pumping at _____ G.P.M.		
			11 WELL HEAD COMPLETION: ☐ Pitless adaptor ☐ 12" above grade		
			☐ Basement offset ☐ Approved pit		
			12 WELL GROUTED? ☐ No ☒ Yes From 0 to 40 ft.		
			☐ Neat cement ☒ Bentonite ☐ Other _____		
			No. of bags of cement 2 Additives _____		
			13 Nearest source of possible contamination		
			Type s tank Distance 50 ft. Direction S		
			Well disinfected upon completion? ☒ Yes ☐ No		
			Was old well plugged? ☐ Yes ☒ No		
			14 PUMP: ☒ Not Installed ☐ Pump Installation Only		
			Manufacturer's name _____		
			Model number _____ HP _____ Volts _____		
			Length of Drop Pipe _____ ft. capacity _____ G.P.M.		
			TYPE: ☐ Submersible ☐ Jet		
			PRESSURE TANK:		
			Manufacturer's name _____		
			Model number _____ Capacity _____ Gallons		
USE A 2ND SHEET IF NEEDED			16. WATER WELL CONTRACTOR'S CERTIFICATION:		
15. Remarks, elevation, source of data, etc. RECEIVED Mich. Dept. of Public Health JUN 14 1991 BUREAU OF ENVIRONMENTAL GEOLOGICAL RESEARCH			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
			FOX & BOLEY WELL DRILLING, INC. 0167 REGISTERED BUSINESS NAME REGISTRATION NO. Address 6655 Brooklyn Rd., Jackson, MI 49201 Signed James L. Melville Date 5/24/91 AUTHORIZED REPRESENTATIVE		
17. Rig Operator's Name: _____					

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:

PERMIT NO:

W-8017

1. LOCATION OF WELL

County

JACKSON

Township Name

HENNAIETTA

Fraction

NW 1/4 NE 1/4

Section No.

13

Town No.

15

Range No.

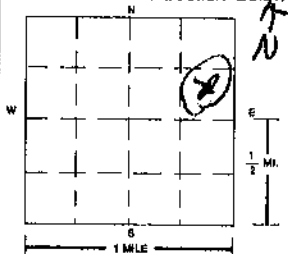
1E

Distance and Direction from Road Intersection

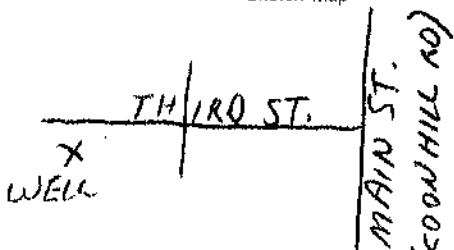
ON SOUTH SIDE OF THIRD ST,
2/10 MILE WEST OF MAIN ST.

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUM

DEPTH TO
BOTTOM OF
STRATUM

0-14 BROWN CLAY

14 14

14-47 SAND

33 47

47-54 GREY CLAY + SAND

7 54

54-65 SAND

11 65

PUMP WILL BE INSTALLED
BY MURPH'S PUMPS

USE A 2ND SHEET IF NEEDED

NOV 30 1999

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ No

Casing Diameter _____ in.

Depth _____

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry

☐ Neat Cement

☐ Concrete Grout

☐ Bentonite Slurry

☐ Bentonite Chips

No. of Bags _____

Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name MARC MCKEAGUE

3. OWNER OF WELL

PAUL BLAUER/SALLY METZ

Address

211-THIRD ST.
MUNITH, MI.

Address Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH:

ft.

65

Date Completed

11/11/99

☐ New Well

☒ Replacement Well

5. ☐ Cable Tool

☒ Rotary

☐ Driven

☐ Dug

☐ Hollow Rod

☐ Auger/Bored

☐ Jetted

☐

6. USE:

☒ Household

☐ Type I Public

☐ Type III Public

☐ Irrigation

☐ Type IIa Public

☐ Heat Pump

☐ Test Well

☐ Type IIb Public

☐

7. CASING:

☐ Steel

☐ Threaded

Height Above/Below Surface: _____ ft

☒ Plastic

☒ Welded

☐ Other

Diameter: _____ in.

to _____ ft. depth

Weight: _____ lbs./ft.

3

_____ in. to _____ ft. depth

BORE HOLE:

Diameter: _____ in.

to _____ ft. depth

☐ Drive Shoe

☒ Shale Packer

8. SCREEN:

☐ Not Installed

☐ Gravel-Packed

Type _____

STAINLESS

Diameter _____

Slot Gauge _____

.015

Length: _____

Set Between _____

60 ft. and _____ ft.

FITTINGS: _____

2 K-Packer

☐ Bremer Check

☒ Blank Above Screen

1

ft. Other _____

9. STATIC WATER LEVEL:

24

ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

45

ft. After _____

hrs. Pumping at _____

50

G.P.M.

☐ Plunger

☐ Bailor

☒ Air

☐ Test Pump

11. WELL HEAD COMPLETION:

☐ Pitless Adapter

☒ 12" Above Grade

☐ Basement Offset

☐ Well House

12. WELL GROUTED?

☐ No

☒ Yes

From _____ to _____ ft.

☐ Neat Cement

☒ Bentonite

☐ Other _____

No. of Bags _____

5 1/2

Additives WYO-BEN

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

FUEL OIL TANK

Distance _____

50+ ft. Direction _____

Type _____

SOS

Distance _____

50+ ft. Direction _____

14. PUMP:

☒ Not Installed

☐ Pump Installation Only

Manufacturer's Name _____

Model Number _____

HP _____

Volts _____

Length of Drop Pipe _____

40

ft. Capacity _____

G.P.M.

TYPE: ☐ Submersible

☐ Jet

☐ Other _____

PRESSURE TANK:

Manufacturer's Name _____

Model Number _____

Capacity _____

Gallons _____

18. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

KATZ WELL DRILLING INC. 13-1593

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 1479 - E. MKH. AVE. BATTLE CREEK

Signed

Maw McKeague

Date

11-11-99

AUTHORIZED REPRESENTATIVE

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

PERMIT NO:

W7845

TAX NO:

1. LOCATION OF WELL

County

JACKSON

Township Name

HENRIETTA

Fraction

SE 1/4 SE 1/4 NE 1/4

Section No.

13

Town No.

715

Range No.

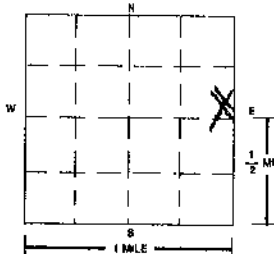
12E

Distance and Direction from Road Intersection

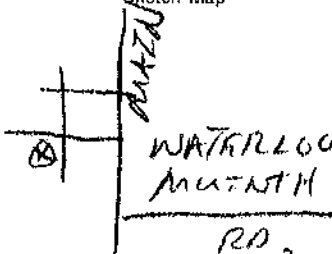
S.W. CORNER OF 2ND & HENRIETTA
150 YDS. WEST OF MAIN ST. MUNITH
0.1 MI. NORTH OF WATERLOO-MUNITH

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS OF STRATUM

DEPTH TO BOTTOM OF STRATUM

BROWN CLAY	13	13
BROWN SAND	30	43
GRAY SAND	74	117
GRAY LIMESTONE	23	140
GRAY SHALE, LIMESTONE	18	158
GRAY SANDSTONE, SHALE	19	177

3. OWNER OF WELL

Address

ALTA STONE
302 HENRIETTA
MUNITH, MICH

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

177 ft.

Date Completed

9-18-99

☐ New Well

☒ Replacement Well

5. ☐ Cable Tool

☒ Rotary

☐ Driven

☐ Dug

☐ Hollow Rod

☐ Auger/Bored

☐ Jetted

☐

6. USE: ☒ Household

☐ Type I Public

☐ Type III Public

☐ Irrigation

☐ Type IIa Public

☐ Heat Pump

☐ Test Well

☐ Type IIb Public

☐

7. CASING:

☐ Steel

☐ Threaded

Height Above/Below Surface: 7 ft

☒ Plastic

☐ Welded

☐ Other

Diameter: 5 in. to 125 ft. depth

Weight: lbs./ft.

BORE HOLE: in. to ft. depth

Diameter: 8 in. to 125 ft. depth

☐ Drive Shoe

4-1/2 in. to 177 ft. depth

☐ Shale Pack

8. SCREEN: ☒ Not Installed

☐ Gravel-Packed

Type

Diameter

Slot/Gauze

Length

Set Between

ft. and

ft.

FITTINGS:

☐ K-Packer

☐ Bremer Check

☐ Blank Above Screen

ft. Other

9. STATIC WATER LEVEL:

28 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

176 ft. After 2 hrs. Pumping at 35 G.P.M.

☐ Plunger

☐ Bailor

☒ Air

☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter

☒ 12" Above Grade

☐ Basement Offset

☐ Well House

12. WELL GROUTED?

☐ No ☒ Yes

From 0 to 125 ft.

☐ Neat Cement

☒ Bentonite

☒ Other B-2 mud

No. of Bags 5 1/2

Additives

2 QTS

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

SEPTIC

Distance 50 ft. Direction WEST

TYPE QUALITY

Distance ft. Direction

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED?

☒ Yes ☐ No

Casing Diameter 3 in.

Depth ft.

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry

☐ Neat Cement

☐ Bentonite

No. of Bags 3

☐ Concrete Grout

☒ Bentonite

Casing Removed?

☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name BILL & DAVE WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BEAR WELL DRILLING 387529

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 8301 DIXON RD, RIVESTUNCTION

Signed William Weber

Date 10-12-99

AUTHORIZED REPRESENTATIVE

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

PERMIT NO:

W-6856

TAX NO:

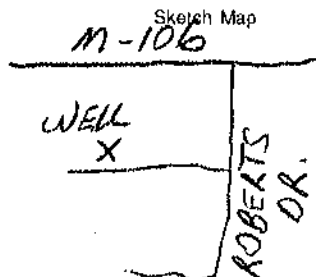
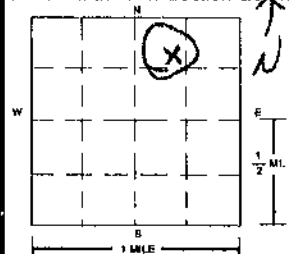
1. LOCATION OF WELL

County JACKSON Township Name HENRIETTA Fraction SE 1/4 NW 1/4 NE 1/4 Section No. 13 Town No. 15 Range No. 1E

Distance and Direction from Road Intersection
ON WEST SIDE OF ROBERTS DR.
2/10 MILE SOUTH OF M-106

Street Address & City of Well Location

Locate with 'x' in Section Below



2. FORMATION DESCRIPTION

THICKNESS OF STRATUM

DEPTH TO BOTTOM OF STRATUM

0-11 SAND	11	11
11-18 SAND + BROWN CLAY	7	18
18-39 SAND	21	39
39-82 GREY CLAY W/ GRAVEL STREAKS	43	82
82-90 SAND	8	90

3. OWNER OF WELL: WILLIAM DALE
Address 10825-ROBERTS DR.
MUNITH, MI.
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 90 ft. Date Completed 1-21-99
☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☒ Welded
☐ Other

Diameter: 5 in. to 85 ft. depth
Weight: 3 lbs./ft.

BORE HOLE: Diameter: 8 in. to 85 ft. depth
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed
Type STAINLESS Diameter 4"
Slot/Gauze 1015 Length 4'
Set Between 85 ft. and 90 ft.

FITTINGS: 2 ☒ K-Packer ☐ Bremer Check
☒ Blank Above Screen 1 ft. Other

9. STATIC WATER LEVEL: 20 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface 70 ft. After 1 hrs. Pumping at 80 G.P.M.
☐ Plunger ☐ Bailor ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION: ☐ Pitless Adapter ☒ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 80 ft.
☐ Neat Cement ☒ Bentonite ☐ Other
No. of Bags 7 Additives PDSCO

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type SOS Distance 50+ ft. Direction N
Type Distance ft. Direction

14. PUMP: ☒ Not Installed ☐ Pump Installation Only

Manufacturer's Name
Model Number HP Volts
Length of Drop Pipe 35 ft. Capacity G.P.M.
TYPE: ☐ Submersible ☐ Jet ☐ Other

PRESSURE TANK:
Manufacturer's Name
Model Number Capacity Gallons

15. ABANDONED WELL PLUGGED? ☐ Yes ☒ No
Casing Diameter in. Depth ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:
☒ Employee ☐ Subcontractor
Name MARC MCKEAGUE

18. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
KAT2 WELL DRILLING INC. 13-1593
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 1479 E. MICH. AVE. BATTLE CREEK
Signed Marc McKeague Date 1-21-99
AUTHORIZED REPRESENTATIVE

TAX NO:

WATER WELL AND PUMP RECORD

PERMIT NO:

W 7033

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

1. LOCATION OF WELL

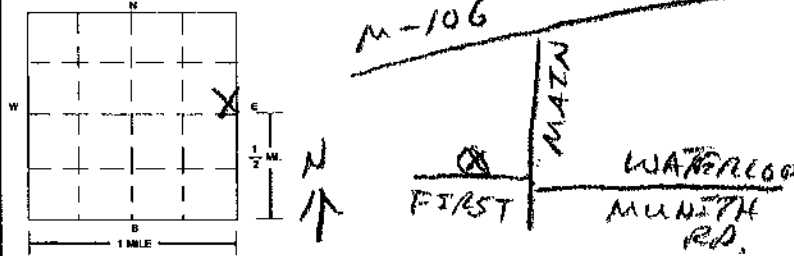
County JACKSON Township Name HENRIETTA Fraction SE 1/4 Section No. 13 Town No. T15 Range No. R1E

Distance and Direction from Road Intersection

0.1 MI. WEST OF WATER 400 -
MUNITH RD.

Street Address & City of Well Location

Locate with 'x' in Section Below



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUM

DEPTH TO
BOTTOM OF
STRATUM

BROWN CLAY	7	7
BROWN CLAY, GRAVEL	5	12
BROWN SAND, GRAVEL	4	16
BROWN SAND	22	38
GRAY SILT, SAND	31	69
GRAY SAND	27	96
GRAY GRAVEL	5	101

3. OWNER OF WELL

Address CURRY GAUSS
216 FIRST ST.
MUNITH, MICH.
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

Date Completed

☐ New Well

101 ft.

3/9/99

☒ Replacement Well

5. ☐ Cable Tool

☒ Rotary

☐ Driven

☐ Dug

☐ Hollow Rod

☐ Auger/Bored

☐ Jetted

☐

6. USE: ☒ Household

☐ Type I Public

☐ Type III Public

☐ Irrigation

☐ Type IIA Public

☐ Heat Pump

☐ Test Well

☐ Type IIB Public

☐

7. CASING:

☐ Steel

☐ Threaded

Height Above/Below Surface: 7 ft.

☒ Plastic

☐ Welded

☐ Other

Diameter: 5 in. to 97 ft. depth

Weight: lbs./ft.

in. to ft. depth

BORE HOLE:

Diameter: 8 in. to 101 ft. depth

☐ Drive Shoe

☐ Shale Packer

in. to ft. depth

8. SCREEN:

☐ Not Installed

☐ Gravel-Packed

Type STAINLESS Diameter 4"

Slot/Gauze 020 Length: 6' 4"

Set Between 97 ft. and 101 ft.

FITTINGS: ☒ K-Packer

☐ Bremer Check

☒ Blank Above Screen 2 ft. Other

9. STATIC WATER LEVEL:

29 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

95 ft. After 2 hrs. Pumping at 60 G.P.M.

☐ Plunger

☐ Bailor

☒ Air

☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter

☒ 12" Above Grade

☐ Basement Offset

☐ Well House

12. WELL GROUTED?

☐ No ☒ Yes

From 0 to 83 ft.

☐ Neat Cement

☒ Bentonite

☒ Other 5-2 MUD

No. of Bags 4

Additives 1 LB QTS

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type SEPTIC Distance 60+ ft. Direction NORTH

Type Distance ft. Direction

14. PUMP:

☐ Not Installed

☐ Pump Installation Only

Manufacturer's Name AEROMOTOR

Model Number TP-50 HP 1/2 Volts 230

Length of Drop Pipe 45 ft. Capacity 10 G.P.M.

TYPE: ☒ Submersible

☐ Jet

☐ Other

PRESSURE TANK:

Manufacturer's Name WELL-RITE

Model Number WR-60 Capacity 6 Gallons

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ No

Casing Diameter in.

Depth ft.

PLUGGING MATERIAL:

☐ Neat Cement

☐ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Concrete Grout

☐ Bentonite Chips

No. of Bags

Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name BILL & DAVID WEBER

18. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BEAR WELL DRILLING 38-1529

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 8301 DIXON RD PUEBLO

Signed William Weber Date 4-27-99

AUTHORIZED REPRESENTATIVE

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

3697

1. LOCATION OF WELL

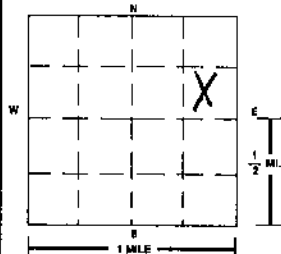
County Jackson Township Name Henrietta Fraction NE 1/4 Section No. 13 Town No. 15 Range No. 1E

Distance and Direction from Road Intersection

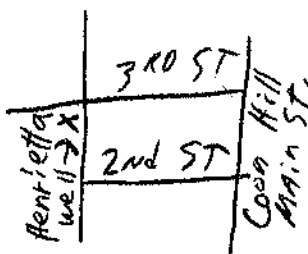
on S.W. corner of Third ST
And Henrietta ST.

Street Address & City of Well Location

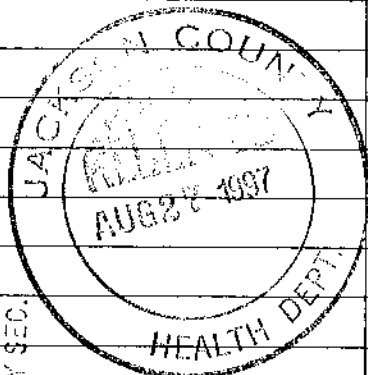
Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ NoCasing Diameter 4 in. Depth 50 ft.

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry ☐ Neat Cement ☐ Bentonite Slurry
☐ Concrete Grout ☐ Bentonite Chips
 No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

owner fills in

17. DRILLING MACHINE OPERATOR:

☐ Employee ☐ Subcontractor

Name _____

3. OWNER OF WELL

Address Claude Corwin
205 Third ST.Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

ft. 8/22/97☐ New Well
☒ Replacement Well
☐ Cable Tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐

 6. USE: ☐ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐

7. CASING:

☐ Steel ☐ Threaded
☐ Plastic ☐ Welded
☐ Other _____
Height: Above/Below
Surface: _____ ftDiameter: _____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Weight: _____ lbs./ft.

BORE HOLE:

Diameter: _____ in. to _____ ft. depth
_____ in. to _____ ft. depth
☐ Drive Shoe
☐ Shale Packer
8. SCREEN: ☐ Not Installed ☐ Gravel-PackedType _____ Diameter _____
Slot/Gauze _____ Length: _____

Set Between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Bremer Check☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:

_____ ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface

_____ ft. After _____ hrs. Pumping at _____ G.P.M.

☐ Plunger ☐ Bailor ☐ Air ☐ Test Pump

11. WELL HEAD COMPLETION:

☐ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House
12. WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.
☐ Neat Cement ☐ Bentonite ☐ Other _____
 No. of Bags _____ Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type _____ Distance _____ ft. Direction _____

Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☒ Pump Installation OnlyManufacturer's Name Flint & WallingModel Number 4F10005-305 HP 1/2 Volts 220Length of Drop Pipe 41 ft. Capacity 10 G.P.M.TYPE: ☒ Submersible ☐ Jet ☐ Other _____

PRESSURE TANK:

Manufacturer's Name ChampionModel Number CM 222 Capacity 6 G.P.M.

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

MURPHY'S & MATTHEW'S PUMPS

REGISTERED BUSINESS SALES & SERVICE

Address 4801 Page Avenue

MICHIGAN CENTER, MI 49254

Signed Murphy's AUTHORIZED REPRESENTATIVEDate 8-25-97

Authority: Act 368 PA 1978

Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY COPY

TAX NO. 05647

MICHIGAN WATER WELL AND PUMP RECORD

Permit No. 3 6 0 2

1 Location of Well		County JACKSON		Township Name HENRIETTA		Fraction NW 1/4 NW 1/4 N8 1/4		Section Number 13		Town Number 1S N/S		Range Number 18 E/W					
Distance and Direction From Road Intersection 40' SOUTH OF 7TH STREET (209) 300' WEST OF HENRIETTA STREET 209 7TH STREET MUNITH								3 Owner of Well WILSON PUMP SALES & SRV Address 115 S MAIN LESLIE MI 49251-									
Street Address and City of Well Location								Address Same as Well Location? No									
Sketch Map								4 Well Depth (Completed) 175 ft.				Date of Completion 07/26/97 Replacement Well					
2 FORMATION DESCRIPTION								5 Drilling Method ROTARY				6 Proposed Use DOMESTIC					
TOPSOIL BROWN CLAY CLAY SAND GRAVEL GRAVEL GRAY CLAY SAND GRAVEL GRAVEL GRAY CLAY SANDSTONE SANDSTONE MIX RED SHALE LIMESTONE GREEN SHALE SANDSTONE								Thickness of Stratum		Depth to Bottom of Stratum		7 Casing PLASTIC SDR 21 5 in. to 107 ft. depth in. to ft. depth Bore Hole Diameter 8 3/4 in. to 106 ft. depth in. to ft. depth				Height Above Surface 1 ft. Weight 2.87 lbs./ft.	
								3		3		Drive Shoe Yes Shale Packer No					
								6		9		8 Screen Not Installed Gravel-packed? No					
								22		31		9 Static Water Level 23 Ft. Below Land Surface Flo					
								12		43		10 Pumping Level Below Land Surface 40 ft. after hrs. pumping at 18 G.P.M. ft. after hrs. pumping at G.P.M. Using AIR					
								8		51		11 Well Head Completion 12" ABOVE GRADE					
								25		76		12 Well Grouted? Yes From 106 to 0 ft. BENSAL No. of bags 9 Additives					
								7		83		13 Nearest Source of Possible Contamination SEPTIC TANK Distance 50+ ft. Direction SR NONE Distance ft. Direction					
								9		92		14 Pump Not Installed					
								20		112		15 Abandoned well plugged? No Casing Diameter in. Depth ft. Casing removed? No					
								30		142		16 Remarks, elevation of source of etc.					
								33		175		17 Drilling machine operator Employee Name RON MCMELEN Authority: Act 368 PA 1978 Completion: Required Penalty: Conviction of violation of any provision is a misdemeanor. IMPORTANT: File with deed.					
												18 Water Well Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Registered business name: HART WELL DRILLING CO. Registration number: 1686 Address: 1294 S JEFFERSON ST. WILSON, MI 48854 Signed: David W. Hart Date 7/29/97 (Authorized representative)					

GEOLOGICAL SURVEY

TAX NO. 05558

MICHIGAN WATER WELL AND PUMP RECORD

Permit No. 2 9 6 9

1 Location of Well	Township Name	Fraction	Section Number	Town Number	Range Number
County JACKSON	HENRITTA	1/4 1/4 1/4	13	18 N/S	18 E/W

Distance and Direction From Road Intersection
 35' NORTH SIDE OF KENNEDY ROAD (9422)
 4/10THS WEST OF COOHILL ROAD
 9422 KENNEDY ROAD

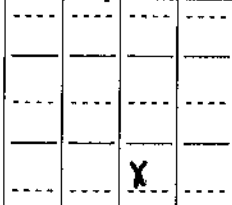
3 Owner of Well **WILSON PUMP**

Address **115 S MAIN ST**
LESLIE MI 49251-

Street Address and City of Well Location

Address Same as Well Location? **No**

Sketch Map



COOHILL
 X 35'
Kennedy Rd
 ← 4/10ths →

4 Well Depth (Completed) **145 ft.** Date of Completion **02/11/97**
 Replacement Well

5 Drilling Method **ROTARY**6 Proposed Use **DOMESTIC**

2 FORMATION DESCRIPTION

SAND
 BROWN CLAY
 GRAVEL
 CLAY
 SAND GRAVEL STRIPS
 GRAY WHITE SHALE
 SANDSTONE
 SHALE RED-GREEN
 LIMESTONE
 SANDSTONE

Thickness of Stratum	Depth to Bottom of Stratum
17	17
6	23
5	28
5	33
45	78
3	81
8	89
13	102
25	127
18	145

7 Casing **PLASTIC SDR 21** Height Above Surface **1.5 ft.**
 5 in. to 83 ft. depth Weight **2.87 lbs./ft.**
 in. to ft. depth
 Bore Hole Diameter
 8 3/4 in. to 81.5 ft. depth Drive Shoe **Yes**
 in. to ft. depth Shale Packer **No**

8 Screen **Not Installed** Gravel-packed? **No**9 Static Water Level **34** Ft. Below Land Surface **Plo**

10 Pumping Level Below Land Surface
 60 ft. after hrs. pumping at 30 G.P.M.
 ft. after hrs. pumping at G.P.M.
 Using **AIR**

11 Well Head Completion **PITLESS ADAPTER**

12 Well Grouted? **Yes** From **81** to **0** ft.
BENSEAL
 No. of bags **10** Additives

13 Nearest Source of Possible Contamination
SEPTIC TANK Distance **50** ft. Direction **N**
NONE Distance ft. Direction

14 Pump **Not Installed**

15 Abandoned well plugged? **No**
 Casing Diameter in. Depth ft.

Casing removed? **No**

16 Remarks, elevation, source of data, etc.
JOB # 97BW01

17 Drilling machine operator:
 Employee
 Name **RON MCCRIMMON**

Authority: Act 368 PA 1978

Completion: **Required.**

Penalty: Conviction of violation of any
 provision is a misdemeanor.

IMPORTANT: File with deed.

18 Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true
 to the best of my knowledge and belief.

Registered business name: **HART WELL DRILLING CO.**Registration number: **1886**Address: **1154 S JEFFERSON ST. WILSON, MI 48854**Signed: **D. J. JEFFERSON** Date **2-19-97**

(Authorized representative)

GEOLOGICAL SURVEY

TAX NO:

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
 Failure to comply is a misdemeanor

PERMIT NO:

W-3697

1. LOCATION OF WELL

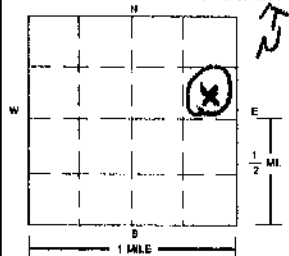
County **JACKSON** Township Name **HENRIETTA** Fraction **NE 1/4** Section No. **13** Town No. **15** Range No. **1E**

Distance and Direction from Road Intersection

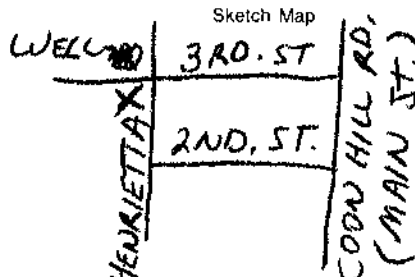
**ON SW CORNER OF THIRO ST.
 AND HENRIETTA ST.**

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUM

DEPTH TO
BOTTOM OF
STRATUM

0-7 BROWN CLAY	7	7
7-13 SAND + BROWN CLAY	6	13
13-55 SAND	42	55

3. OWNER OF WELL

Address

**CLAUDE CORWIN
 205 THIRO ST.
 MUNITH, MI.**

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

Date Completed

☐ New Well

55 ft.

8-21-97

☒ Replacement Well

5. ☐ Cable Tool

☒ Rotary

☐ Driven

☐ Dug

☐ Hollow Rod

☐ Auger/Bored

☐ Jetted

☐

6. USE:

☒ Household

☐ Type I Public

☐ Type III Public

☐ Irrigation

☐ Type IIa Public

☐ Heat Pump

☐ Test Well

☐ Type IIb Public

☐

7. CASING:

☐ Steel

☐ Threaded

☒ Plastic

☒ Welded

☐ Other

Height Above/Below Surface: **1** ft

Diameter: **5** in.

to **50** ft. depth

Weight: **3** lbs./ft.

in. to _____ ft. depth

BORE HOLE:

Diameter: **8** in.

to **50** ft. depth

in. to _____ ft. depth

☐ Drive Shoe

☒ Shale Packer

8. SCREEN:

☐ Not Installed

☐ Gravel-Packed

Type **STAINLESS**

Diameter **4"**

Slot/Screen **.015**

Length: **4'**

Set Between **50** ft. and **55** ft.

FITTINGS: **2 1/2" K-Packer**

☐ Bremer Check

☒ Blank Above Screen

1 ft. Other _____

9. STATIC WATER LEVEL:

21 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

45 ft. After **1** hrs. Pumping at **50** P.M.

☐ Plunger

☐ Bailor

☒ Air

☐ Test Pump

11. WELL HEAD COMPLETION:

☐ Pitless Adapter

☒ 12" Above Grade

☐ Basement Offset

☐ Well House

12. WELL GROUTED?

☐ No ☒ Yes

From **0** to **50** ft.

☐ Neat Cement

☒ Bentonite

☐ Other

No. of Bags **5**

Additives **PDS CO.**

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type **SOS**

Distance **50+** ft.

Direction **S**

Type _____

Distance _____ ft.

Direction _____

14. PUMP:

☒ Not Installed

☐ Pump Installation Only

Manufacturer's Name _____

Model Number _____

HP _____

Volts _____

Length of Drop Pipe _____ ft.

Capacity _____ G.P.M.

TYPE: ☐ Submersible

☐ Jet

☐ Other _____

PRESSURE TANK:

Manufacturer's Name _____

Model Number _____

Capacity _____

Gallons _____

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ No

Casing Diameter _____ in.

Depth _____ ft.

PLUGGING MATERIAL:

☐ Neat Cement

☐ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Concrete Grout

☐ Bentonite Chips

No. of Bags _____

Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name **MARC McKEAGUE**

18. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

KATZ WELL DRILLING INC. 13-1593

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address **1479 E. MICH. AVE. BATTLE CREEK**

Signed **Marc McKeague** Date **8-21-97**

AUTHORIZED REPRESENTATIVE

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

PERMIT NO:

8017

TAX NO:

1. LOCATION OF WELL

County JACKSON

Township Name

Henrietta

Fraction

NW 1/4 SE 1/4 NE 1/4

Section No.

13

Town No.

15

Range No.

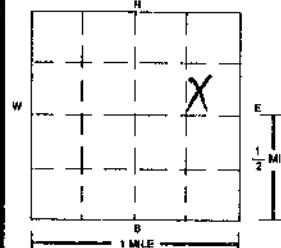
1E

Distance and Direction from Road Intersection

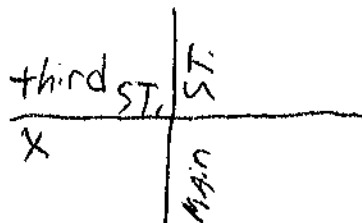
on S. Side of Third ST.
2 1/10 Mile W. of Main ST.

Street Address & City of Well Location

Locate with 'x' in Section Below



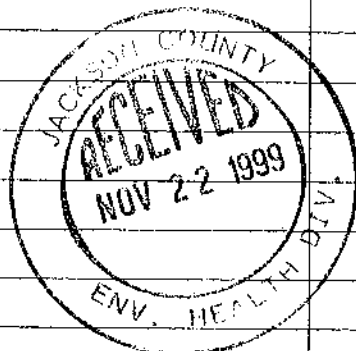
Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUM

DEPTH TO
BOTTOM OF
STRATUM



USE A 2ND SHEET IF NEEDED

RECEIVED

15. ABANDONED WELL PLUGGED?

☒ Yes ☐ No

Casing Diameter 1 1/4 in.

Depth 20 ft.

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry

No. of Bags 3/4

☐ Neat Cement

☐ Concrete Grout

Casing Removed? ☐ Yes ☒ No

DEC 1 1999

Bentonite Slurry

Bentonite Chips

Drinking Water & Environmental Protection

Ground Water Supply System

WELL CONSTRUCTION

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☐ Employee ☐ Subcontractor

Name

14. PUMP:

☐ Not Installed

☒ Pump Installation Only

Manufacturer's Name

flint & walling

Model Number

4F0605-305HP

Length of Drop Pipe

40 ft.

TYPE:

☒ Submersible ☐ Jet ☐ Other

PRESSURE TANK:

Manufacturer's Name

Champion

Model Number

CM202

Capacity

6 gallons

MURPH'S PUMPS SALES & SERVICE

18. WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

(517) 764-1135 Fax: (517) 764-6609

REGISTERED BUSINESS NAME

Address

Signed

AUTHORIZED REPRESENTATIVE

Date

11-16-99

REGISTRATION NO.

1 Location of Well	County	Township Name	Fraction	Section Number	Town Number	Range Number
	JACKSON	HENRIETTA	SE 1/4 SE 1/4 NE 1/4	13	T1S N/S	R1E E/W

Distance and Direction From Road Intersection

80' SOUTH OF FIRST ST (221)
2/10THS MILE WEST OF MAIN ST
FIRST ST (221)
MUNITH

3 Owner of Well WILSON'S PUMP SALES & SER

Address 115 S MAIN ST
LESLIE MI 49251-

Street Address and City of Well Location

Address Same as Well Location? No

Sketch Map

First St
2/10 mi

4 Well Depth (Completed) 180 ft.
Date of Completion 07/24/99
Replacement Well

5 Drilling Method ROTARY

6 Proposed Use DOMESTIC

2 FORMATION DESCRIPTION

Thickness of Stratum	Depth to Bottom of Stratum
14	14
93	107
21	128
5	133
16	149
31	180

BROWN SAND CLAY

SAND

GRAVEL

LIMESTONE SANDSTONE

LIMESTONE GREEN SHALE

SANDSTONE

7 Casing PVC
5 in. to 154 ft. depth
Bore Hole Diameter
8 3/4 in. to 152.5 ft. depth
Drive Shoe Yes
Shale Packer No

8 Screen Not Installed Gravel-packed? No

9 Static Water Level 40 Ft. Below Land Surface Flo

10 Pumping Level Below Land Surface
60 ft. after hrs. pumping at 20 G.P.M.
ft. after hrs. pumping at G.P.M.
Using AIR

11 Well Head Completion 12" ABOVE GRADE

12 Well Grouted? Yes From 152 to 0 ft.
BENSEAL
No. of bags 9 Additives

13 Nearest Source of Possible Contamination
Distance ft. Direction
Distance ft. Direction

15 Abandoned well plugged? No
Casing Diameter in. Depth ft.

Casing removed? No

16 Remarks, elevation, source of data, etc.

OWNER: DOUG KIMBERLY. ABANDONMENT BY OTHERS.

14 Pump Not Installed

17 Drilling machine operator:

Employee

Name RON MCCRIMMON

Authority: Act 368 PA 1978

Completion: Required.

Penalty: Conviction of violation of any provision is a misdemeanor.

IMPORTANT: File with deed.

18 Water Well Contractor's Certification
This well was drilled under my jurisdiction (and Code Book No. 44) to the best of my knowledge and belief.
Registered business name: HART WELL DRILLING CO.
Registration number: 1686
Address: 115 SOUTH JEFFERSON, MASON, MI 48854
Signed: David W. Hart Date 7/27/99
(Authorized representative)

RECEIVED
MICH DEPT OF ENVIRONMENTAL QUALITY

DEC 16 1999

GEOLOGICAL SURVEY

WATER WELL AND PUMP RECORD

PERMIT NUMBER 3238

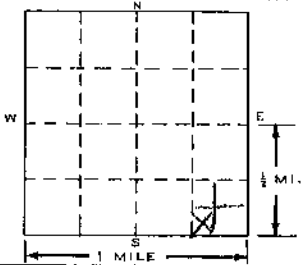
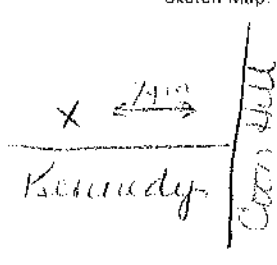
1 LOCATION OF WELL		3 OWNER OF WELL:																						
County JACKSON	Township Name HENRIETTA	Fraction NE 1/4 NE 1/4 NE 1/4	Section Number 13																					
		Town Number TIS	Range Number N/S R1E E/W																					
Distance And Direction From Road Intersection 2/10 mi S M-106 & Henrietta		Address Karen Moackel 120 Henrietta Munith, MI 49259																						
Street Address & City of Well Location 120 Henrietta		Address Same As Well Location? ☒ Yes ☐ No																						
Locate with "X" in Section Below		4 WELL DEPTH: Date Completed MO. DAY YEAR ☐ New Well ☒ Replacement Well																						
		57 FT. 5 21 91																						
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐																						
		6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐																						
		7 CASING: ☐ Steel ☐ Threaded ☐ Welded ☒ Plastic ☐ Height: Above/Surface 1 ft. 5 in. to 54 ft. depth Weight 2 lbs./ft. Grouted Drill Hole Diameter 8 in. to 54 ft. depth Drive Shoe ☒ Yes ☐ No in. to ft. depth																						
2 FORMATION DESCRIPTION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">FORMATION DESCRIPTION</th> <th style="width:20%;">THICKNESS OF STRATUM</th> <th style="width:20%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr><td>Clay</td><td>12</td><td>12</td></tr> <tr><td>Sand, gravel and clay</td><td>15</td><td>27</td></tr> <tr><td>Shale</td><td>6</td><td>33</td></tr> <tr><td>Sand, gravel and shale</td><td>18</td><td>51</td></tr> <tr><td>Sand, gravel</td><td>6</td><td>57</td></tr> <tr><td>Sand, gravel and shale</td><td>?</td><td>57+</td></tr> </tbody> </table>		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Clay	12	12	Sand, gravel and clay	15	27	Shale	6	33	Sand, gravel and shale	18	51	Sand, gravel	6	57	Sand, gravel and shale	?	57+	8 SCREEN: ☐ Not Installed Type stainless Diameter 4" Slot/Gauze .012 Length 4' Set between 54 ft. and 57 ft. FITTINGS: ☒ K-Packer ☐ Lead Packer ☐ Bromer Check ☐ Blank above screen 1.5 ft. Other	
		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																				
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Sand, gravel and shale	18	51																						
Sand, gravel	6	57																						
Sand, gravel and shale	?	57+																						
9 STATIC WATER LEVEL: 14 ft. below land surface ☐ Flow																								
10 PUMPING LEVEL: below land surface 40 ft. after 1 hrs. pumping at 20 G.P.M. ft. after hrs. pumping at G.P.M.																								
11 WELL HEAD COMPLETION: ☐ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit																								
12 WELL GROUTED? ☐ No ☒ Yes From 0 to 40 ft. ☐ Neat cement ☒ Bentonite ☐ Other No. of bags of cement Additives																								
13 Nearest source of possible contamination Type s tank Distance 50 ft. Direction SW Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No																								
14 PUMP: ☒ Not installed ☐ Pump Installation Only Manufacturer's name Model number HP Volts Length of Drop Pipe ft. capacity G.P.M. TYPE: ☐ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name Model number Capacity Gallons																								
15. Remarks, elevation, source of data, etc.		16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. FOX & BOLEY WELL DRILLING, INC. REGISTERED BUSINESS NAME REGISTRATION NO. 0167 Address 6655 Brooklyn Rd., Jackson, MI 49201 Signed <i>[Signature]</i> Date 5/22/91 AUTHORIZED REPRESENTATIVE																						

USE A 2ND SHEET IF NEEDED

JUN 14 1991

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		3 OWNER OF WELL																												
County <u>Jackson</u>	Township Name <u>Henrietta</u>	Fraction <u>SW 1/4 SE 1/4</u>	Section Number <u>13</u>																											
Distance And Direction From Road Intersection <u>Kennedy Rd.</u>		Town Number <u>1 N</u>																												
Street Address & City of Well Location Locate with "X" in Section Below		Range Number <u>1 E</u>																												
		Address <u>Rick Fletcher</u> <u>12095 Underwood Munith Rd</u> <u>Munith MI</u> Address Same As Well Location? ☐ Yes ☒ No																												
Sketch Map: 		4 WELL DEPTH: Date Completed <u>MO</u> <u>DAY</u> <u>YEAR</u> <u>110</u> FT. <u>11/06/12</u> ☒ New Well ☐ Replacement Well																												
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐																												
2 FORMATION DESCRIPTION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">FORMATION DESCRIPTION</th> <th style="width:20%;">THICKNESS OF STRATUM</th> <th style="width:20%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr><td><u>Brown Sand & Gravel</u></td><td><u>10</u></td><td><u>10</u></td></tr> <tr><td><u>Gray Clay & Gravel</u></td><td><u>19</u></td><td><u>29</u></td></tr> <tr><td><u>Stones, Gravel & Gray Clay</u></td><td><u>6</u></td><td><u>35</u></td></tr> <tr><td><u>Gray Clay, Gravel & Coal</u></td><td><u>28</u></td><td><u>63</u></td></tr> <tr><td><u>Gray Clay</u></td><td><u>22</u></td><td><u>85</u></td></tr> <tr><td><u>White Sandstone & Limestone</u></td><td><u>12</u></td><td><u>97</u></td></tr> <tr><td><u>White & Brown Limestone</u></td><td><u>9</u></td><td><u>106</u></td></tr> <tr><td><u>Fractured White Limestone & Gravel</u></td><td><u>4</u></td><td><u>110</u></td></tr> </tbody> </table>		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<u>Brown Sand & Gravel</u>	<u>10</u>	<u>10</u>	<u>Gray Clay & Gravel</u>	<u>19</u>	<u>29</u>	<u>Stones, Gravel & Gray Clay</u>	<u>6</u>	<u>35</u>	<u>Gray Clay, Gravel & Coal</u>	<u>28</u>	<u>63</u>	<u>Gray Clay</u>	<u>22</u>	<u>85</u>	<u>White Sandstone & Limestone</u>	<u>12</u>	<u>97</u>	<u>White & Brown Limestone</u>	<u>9</u>	<u>106</u>	<u>Fractured White Limestone & Gravel</u>	<u>4</u>	<u>110</u>	6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐	
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7 CASING: ☐ Steel ☐ Threaded ☐ Welded ☒ Plastic ☐ Height: Above/Below Surface <u>178</u> ft. <u>5</u> in. to <u>104</u> ft. depth <u>778</u> in. to <u>104</u> ft. depth Grouted Drill Hole Diameter <u>778</u> in. to <u>104</u> ft. depth Drive Shoe ☐ Yes ☒ No																														
8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____		9 STATIC WATER LEVEL: <u>6</u> ft. below land surface ☐ Flow																												
		10 PUMPING LEVEL: below land surface <u>108</u> ft. after <u>1</u> hrs. pumping at <u>40</u> G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.																												
11 WELL HEAD COMPLETION: ☒ Piloss adaptor ☒ 12" above grade ☐ Basement offset ☐ Approved pit		12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☒ Bentonite ☐ Other _____ No. of bags of cement _____ Additives _____																												
		13 Nearest source of possible contamination Type <u>Septic</u> Distance <u>50</u> ft. Direction <u>South</u> Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No																												
14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u> Gould </u> Model number _____ HP <u>1/2</u> Volts <u>220</u> Length of Drop Pipe <u>40</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name <u>Well-Kite</u> Model number <u>60-02</u> Capacity <u>30</u> Gallons		15. Remarks, elevation, source of data, etc. 17. Rig Operator's Name: <u>P.S.</u>																												
		18. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>M W Cornell & Son, Inc. 0819</u> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <u>5017 Meridian, Williamston</u> Signed <u>Sheryl White</u> Date <u>6-13-90</u> AUTHORIZED REPRESENTATIVE																												

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		TOWNSHIP NAME		FRACTION		SECTION NUMBER		TOWN NUMBER		RANGE NUMBER	
County <u>Jackson</u>		Township Name <u>Henrietta</u>		Fraction <u>SW 1/4 SW 1/4 NE 1/4</u>		Section Number <u>13</u>		Town Number <u>1 N 2 S</u>		Range Number <u>1 E W</u>	
Distance And Direction From Road Intersection											
<u>Roberts Drive</u>											
Street Address & City of Well Location											
Locate with "X" in Section Below											
				Sketch Map: 							
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM					
<u>Clay & Sand</u>				<u>30</u>		<u>30</u>					
<u>Sand & Gravel</u>				<u>60</u>		<u>90</u>					
<u>Mixed Black Shale</u>				<u>40</u>		<u>130</u>					
<u>Gray Shale & Sand Rock</u>				<u>50</u>		<u>180</u>					
RECEIVED Mich. Dept. of Public Health SEP 28 1990 BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH DIVISION											
USE A 2ND SHEET IF NEEDED											
15. Remarks, elevation, source of data, etc.											
17. Rig Operator's Name:											
3 OWNER OF WELL:											
Dudley Allen Address <u>P.O. Box 182</u> <u>Maurice, MI</u> Address Same As Well Location? ☐ Yes ☒ No											
4 WELL DEPTH: Date Completed											
<u>180</u> ft. <u>05</u> <u>22</u> <u>90</u> ☒ New Well ☐ Replacement Well											
5											
☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐											
6 USE:											
☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐											
7 CASING: Diameter											
☐ Steel ☐ Threaded ☐ Welded ☒ Plastic ☐ Height: Above/Below <u>5</u> in. to <u>120</u> ft. depth Surface <u>1</u> ft. <u>7 1/8</u> in. to <u>120</u> ft. depth Weight _____ lbs./ft. Grouted Drill Hole Diameter Drive Shoe ☐ Yes ☒ No											
8 SCREEN:											
☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____											
9 STATIC WATER LEVEL:											
<u>35</u> ft. below land surface ☐ Flow											
10 PUMPING LEVEL: below land surface											
<u>60</u> ft. after <u>1</u> hrs. pumping at <u>30</u> G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.											
11 WELL HEAD COMPLETION:											
☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit											
12 WELL GROUTED?											
☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☒ Bentonite ☐ Other _____ No. of bags of cement _____ Additives _____											
13 Nearest source of possible contamination											
Type <u>Septic</u> Distance <u>60</u> ft. Direction <u>East</u> Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No											
14 PUMP:											
☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u>Well Motor</u> Model number _____ HP <u>1/2</u> Volts <u>220</u> Length of Drop Pipe <u>60</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name <u>Well Rite</u> Model number <u>60-02</u> Capacity <u>30</u> Gallons											
16. WATER WELL CONTRACTOR'S CERTIFICATION:											
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.											
REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address _____ Signed _____											

WATER WELL AND PUMP RECORD

PERMIT NUMBER

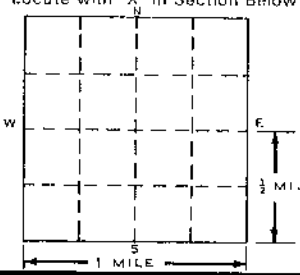
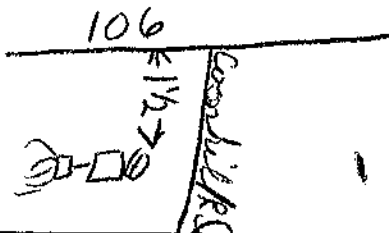
W/3933

1 LOCATION OF WELL		3 OWNER OF WELL:	
County <u>Jackson</u>	Township Name <u>Hennrich</u>	Fraction <u>SW 1/4 SE 1/4 SE 1/4</u>	Section Number <u>13</u>
Distance And Direction From Road Intersection		Town Number <u>1</u>	Range Number <u>10N</u>
Street Address & City of Well Location		Address <u>9442 Kennedy Rd</u> <u>Mumtaz, MI 49259</u>	
Locate with "X" in Section Below		Address Same As Well Location? ☒ Yes ☐ No	
		4 WELL DEPTH: Date Completed <u>5-27-92</u> <u>141</u> ft. ☐ New Well ☒ Replacement Well	
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐	
		6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐	
		7 CASING ☐ Steel ☐ Threaded ☐ Height: Above/Below ☒ Plastic ☐ Welded <u>5</u> in. to <u>64</u> ft depth Surface <u>1</u> ft Grouted Drift Hole Diameter <u>24</u> in. to <u>25</u> ft depth Weight _____ lbs./ft. _____ in. to _____ ft. depth Drive Shoe ☐ Yes ☒ No	
2 FORMATION DESCRIPTION		8 SCREEN: ☒ Not Installed	
	THICKNESS OF STRATUM	Type _____ Diameter _____	
<u>Sand + Clay</u>	<u>25</u>	Slot/Gauze _____ Length _____	
<u>Stones</u>	<u>10</u>	Set between _____ ft. and _____ ft.	
<u>Sand</u>	<u>20</u>	FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check	
<u>Stones + White Shale</u>	<u>60</u>	☐ Blank above screen _____ ft. Other _____	
<u>White Sand Blue Sand Rock</u>	<u>36</u>	9 STATIC WATER LEVEL	
		<u>10</u> ft. below land surface ☐ Flow	
		10 PUMPING LEVEL: below land surface	
		<u>30</u> ft. after <u>1</u> hrs. pumping at <u>30</u> G.P.M.	
		_____ ft. after _____ hrs. pumping at _____ G.P.M.	
		11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade	
		☐ Basement offset ☐ Approved pit	
		12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft.	
		☐ Neat cement ☐ Bentonite ☐ Other _____	
		No. of bags of cement _____ Additives _____	
		13 Nearest source of possible contamination	
		Type <u>TANK</u> Distance <u>32</u> ft. Direction <u>NE</u>	
		Well disinfected upon completion? ☒ Yes ☐ No	
		Was old well plugged? ☒ Yes ☐ No	
		14 PUMP: ☐ Not Installed ☒ Pump Installation Only	
		Manufacturer's name <u>Myers</u>	
		Model number _____ HP <u>1/2</u> Volts <u>230</u>	
		Length of Drop Pipe <u>20</u> ft. capacity <u>12</u> G.P.M.	
		TYPE: ☒ Submersible ☐ Jet	
		PRESSURE TANK:	
		Manufacturer's name <u>Wellbitt</u>	
		Model number _____ Capacity <u>30</u> Gallons	
RECEIVED Mich. Dept. of Public Health SEP 25 1992		15. Remarks, elevation, source of	
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWOS		16. WATER WELL CONTRACTOR'S CERTIFICATION:	
USE A 2ND SHEET IF NEEDED		This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.	
17. Rig Operator's Name:		<u>M. W. Cornell & Sons Inc</u> 0817	
<u>Don Cornell</u>		REGISTERED BUSINESS NAME	
		Address <u>5077 N Meridian</u> Registration No. <u>Wmston</u>	
		Signed <u>Merwin W Cornell</u> Date <u>5-29-92</u>	
		AUTHORIZED REPRESENTATIVE	
		<u>P.O. A C.N</u>	
		Authority: Completion: Penalty:	
		Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.	

WATER WELL AND PUMP RECORD

PERMIT NUMBER

5032

1 LOCATION OF WELL County <u>Jackson</u> Township Name <u>Hennietta</u> Fraction <u>S^W 1/4 SE 1/4 NE 1/4</u> Section Number <u>13</u> Town Number <u>1</u> Range Number <u>1</u> E/W <u>E/W</u> Distance And Direction From Road Intersection _____ Street Address & City of Well Location _____ Locate with "X" in Section Below  Sketch Map: 		3 OWNER OF WELL: <u>Buck Hale</u> Address <u>10430 Coonhill Rd</u> <u>Mumtsh, MI 49259</u> Address Same As Well Location? ☐ Yes ☐ No 4 WELL DEPTH: <u>146</u> FT. Date Completed MO <u>1</u> DAY <u>29</u> YEAR <u>94</u> ☒ New Well ☐ Replacement Well 5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ 6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ 7 CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded Diameter <u>5"</u> in. to <u>139</u> ft. depth Height Above/Below Surface <u>1</u> ft. Weight _____ lbs./ft. Cased Drill Hole Diameter <u>7/8</u> in. to <u>23</u> ft. depth Drive Shoe ☐ Yes ☒ No _____ in. to _____ ft. depth																
2 FORMATION DESCRIPTION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>THICKNESS OF STRATUM</th> <th>DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td><u>Clay</u></td> <td><u>30</u></td> <td><u>30</u></td> </tr> <tr> <td><u>Sand + Gravel</u></td> <td><u>60</u></td> <td><u>90</u></td> </tr> <tr> <td><u>Stones + Gravel</u></td> <td><u>30</u></td> <td><u>120</u></td> </tr> <tr> <td><u>Black White Shale</u></td> <td><u>26</u></td> <td><u>146</u></td> </tr> </tbody> </table>			THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<u>Clay</u>	<u>30</u>	<u>30</u>	<u>Sand + Gravel</u>	<u>60</u>	<u>90</u>	<u>Stones + Gravel</u>	<u>30</u>	<u>120</u>	<u>Black White Shale</u>	<u>26</u>	<u>146</u>	8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____ 9 STATIC WATER LEVEL: <u>45</u> ft. below land surface ☐ Flow 10 PUMPING LEVEL: below land surface <u>60</u> ft. after <u>1</u> hrs. pumping at <u>40</u> G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M. 11 WELL HEAD COMPLETION: ☒ Pitless adaptor ☒ 12" above grade ☐ Basement offset ☐ Approved pit 12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☒ Bentonite ☐ Other _____ No. of bags of cement <u>3 1/2</u> additives _____ 13 Nearest source of possible contamination Type <u>TANK</u> Distance <u>605</u> ft. Direction <u>W</u> Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No 14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u>Gould</u> Model number _____ HP <u>1/2</u> Volts <u>230</u> Length of Drop Pipe <u>60</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name <u>Well Pite</u> Model number <u>WR60-02</u> Capacity <u>30</u> Gallons	
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																
<u>Clay</u>	<u>30</u>	<u>30</u>																
<u>Sand + Gravel</u>	<u>60</u>	<u>90</u>																
<u>Stones + Gravel</u>	<u>30</u>	<u>120</u>																
<u>Black White Shale</u>	<u>26</u>	<u>146</u>																
15. Remarks, elevation, source of data, etc. RECEIVED MICH. DEPT. OF PUBLIC HEALTH MAR 15 94 BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH		16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>M.W. Cornella Sons Inc</u> 0819 REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>5077 N Meridian Williamston</u> Signed <u>Mervin W Cornella</u> Date <u>2-3-94</u> AUTHORIZED REPRESENTATIVE																
17. Rig Operator's Name: <u>Don</u>		USE A 2ND SHEET IF NEEDED																

WATER WELL AND PUMP RECORD

				W	2	6	9	4	

PERMIT NUMBER

1 LOCATION OF WELL		County		Township Name		Fraction		Section Number		Town Number		Range Number	
Jackson		Henrietta		1/4		1/4		13		T1S		N/S R1E E/W	
Distance And Direction From Road Intersection													
South side of First Street (5/10 mi. so. of M-106) 1/10th Mile West of Main													
Street Address & City of Well Location 203 First St. Munith													
Locate with "X" in Section Below													
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		3 OWNER OF WELL:					
Brown Clay				21		21		Howard & Paulette Shew 203 First Street Munith, MI 49259					
Gravel mixed w/Sand				59		80		Address Same As Well Location? ☒ Yes ☐ No					
Lime Strips				2		82		4 WELL DEPTH: Date Completed					
Small Gravel w/Sand & Black Shale				20		102		MO. DAY YEAR ☐ New Well					
Sand/Gravel w/Coal Strips				28		130		175 ft. 6 13 90 ☒ Replacement Well					
Hard Green Stone				3		133		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug					
Black Shale mixed w/Green Stone Strips				2		135		☐ Hollow rod ☐ Auger ☐ Jetted ☐					
Soft Sandstone				6		141		6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public					
Hard Lime Stone				5		146		☐ Irrigation ☐ Type IIa Public ☐ Heat pump					
Green Shale & Sandstone				7		153		☐ Test Well ☐ Type IIb Public ☐					
Lime Stone & Sandstone				5		158		7 CASING: ☐ Steel ☐ Threaded					
Sandstone / Some Lime				3		161		PVC ☒ Plastic ☒ Welded					
Sandstone				14		175		5 in. to 141 ft. depth					
								Height: Above/Below Surface 13" x					
								Weight 2.87 lbs./ft.					
								Drive Shoe ☒ Yes ☐ No					
								8 SCREEN: ☒ Not Installed					
								Type _____ Diameter _____					
								Slot/Gauze _____ Length _____					
								Set between _____ ft. and _____ ft.					
								FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check					
								☐ Blank above screen _____ ft. Other _____					
								9 STATIC WATER LEVEL: _____ ft. below land surface ☐ Flow					
								10 PUMPING LEVEL: below land surface					
								195 ft. after _____ hrs. pumping at 80 G.P.M. w/air					
								_____ ft. after _____ hrs. pumping at _____ G.P.M.					
								11 WELL HEAD COMPLETION: ☒ Pileless adapter ☐ 12" above grade					
								☐ Basement offset ☐ Approved pit					
								12 WELL GROUTED? ☐ No ☒ Yes From _____ to _____ ft.					
								☐ Neat cement ☒ Bentonite ☐ Other _____					
								No. of bags of cement _____ Additives _____					
								13 Nearest source of possible contamination					
								Type _____ Distance _____ ft. Direction _____					
								Well disinfected upon completion? ☒ Yes ☐ No					
								Was old well plugged? ☐ Yes ☐ No					
								14 PUMP: ☐ Not Installed ☐ Pump Installation Only					
								Manufacturer's name Gould					
								Model number 10EJ05421 HP 1/2 Volts 115					
								Length of Drop Pipe 60 ft. capacity 10 G.P.M.					
								TYPE: ☒ Submersible ☐ Jet					
								PRESSURE TANK:					
								Manufacturer's name Amtrol					
								Model number WX-203 Capacity 32 Gallons					
15. Remarks, elevation, source of data, etc.													
16. WATER WELL CONTRACTOR'S CERTIFICATION:													
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.													
Hart Well Drilling Company 1686													
REGISTERED BUSINESS NAME REGISTRATION NO.													
Address 1154 S. Jefferson St. Mason, MI 48854													
Signed _____ Date 6/20/90													
AUTHORIZED REPRESENTATIVE													

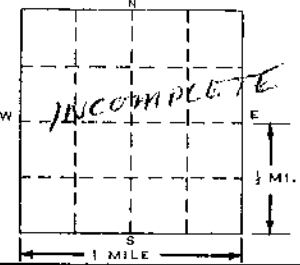
WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		County <u>Jackson</u>		Township Name <u>Hennepina</u>		Fraction <u>1/4</u>		Section Number <u>13</u>		Town Number <u>1</u>		Range Number <u>1</u>	
Distance And Direction From Road Intersection		Street Address & City of Well Location		Locate with "X" in Section Below		Sketch Map:		3 OWNER OF WELL: <u>Bernice Williams</u>		Address <u>6848 Coonhill Rd</u>		Address Same As Well Location? ☐ Yes ☐ No	
4 WELL DEPTH: <u>107</u> FT.		Date Completed <u>4/14/90</u>		☒ New Well		☐ Replacement Well		5 ☐ Cable tool		☒ Rotary		☐ Driven	
5 ☐ Hollow rod		☐ Auger		☐ Jetted		☐ Dug		6 USE: ☒ Domestic		☐ Type I Public		☐ Type III Public	
☐ Irrigation		☐ Type IIa Public		☐ Heat pump		☐ Test Well		☐ Type IIb Public		☐			
7 CASING: Diameter <u>5</u> in.		☐ Steel		☐ Threaded		Height: Above/Below		☒ Plastic		☐ Welded		Surface <u>1</u> ft	
<u>107</u> ft. depth		<u>7 7/8</u> in. to <u>107</u> ft. depth		Grouted Drill Hole Diameter		Weight <u> </u> lbs./ft.		Drive Shoe ☐ Yes		☒ No			
8 SCREEN: ☒ Not Installed		Type <u> </u>		Diameter <u> </u>		Slot/Gauge <u> </u>		Length <u> </u>		Set between <u> </u> ft. and <u> </u> ft.		FITTINGS: ☐ K-Packer	
☐ Lead Packer		☐ Bremer Check		☐ Blank above screen <u> </u> ft.		Other <u> </u>		9 STATIC WATER LEVEL: <u>15</u> ft. below land surface		☐ Flow			
10 PUMPING LEVEL: below land surface		<u>105</u> ft. after <u>1</u> hrs. pumping at <u>40</u> G.P.M.		<u> </u> ft. after <u> </u> hrs. pumping at <u> </u> G.P.M.		11 WELL HEAD COMPLETION: ☒ Pitless adapter		☒ 12" above grade		☐ Basement offset		☐ Approved pit	
12 WELL GROUTED? ☐ No		☒ Yes From <u>0</u> to <u>25</u> ft.		☐ Neat cement		☐ Bentonite		☒ Other <u>Hydramix</u>		No. of bags of cement <u>3</u>		Additives <u> </u>	
13 Nearest source of possible contamination		Type <u>Septic</u>		Distance <u>60</u> ft.		Direction <u>S</u>		Well disinfected upon completion? ☒ Yes		☐ No		Was old well plugged? ☐ Yes	
☐ No		14 PUMP: ☐ Not installed		☐ Pump Installation Only		Manufacturer's name <u> </u>		Model number <u> </u>		HP <u>1/2</u>		Volts <u>220</u>	
Length of Drop Pipe <u> </u> ft.		Capacity <u> </u> G.P.M.		TYPE: ☒ Submersible		☐ Jet		PRESSURE TANK: Manufacturer's name <u> </u>		Model number <u> </u>		Capacity <u> </u> Gallons	
15. Remarks, elevation, source of data, etc.		16. WATER WELL CONTRACTOR'S CERTIFICATION:		This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		M.W. Cornell & Son Inc		0819		REGISTERED BUSINESS NAME		REGISTRATION NO.	
Address <u>3077 N. Meridian Rd</u>		Winston		Signed <u>Cathy L. K...</u>		Date <u>4-16-90</u>		Authority: Completion: Penalty:		Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.			

WATER WELL AND PUMP RECORD

PERMIT NUMBER

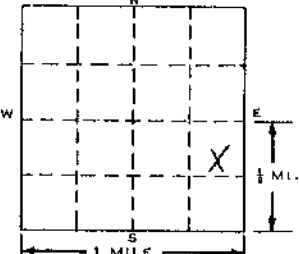
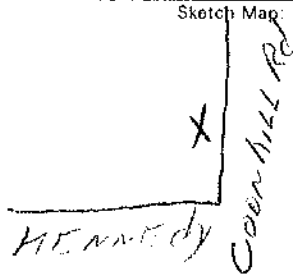
1 LOCATION OF WELL		County <u>Jackson</u>		Township Name <u>Hemlock</u>		Fraction <u>N 1/4 SE 1/4 NE 1/4</u>		Section Number <u>13</u>		Town Number <u>1 N/S</u>		Range Number <u>1 E/W</u>	
Distance And Direction From Road Intersection <u>INCOMPLETE</u>				3 OWNER OF WELL: <u>Alan Hoyer</u> Address <u>416 Main St</u> <u>Hemlock, MI</u> Address Same As Well Location? ☐ Yes ☐ No									
Street Address & City of Well Location Locate with "X" in Section Below				4 WELL DEPTH: <u>202</u> FT. Date Completed MO. <u>8</u> DAY <u>14</u> YEAR <u>91</u> ☐ New Well ☒ Replacement Well									
Sketch Map 				5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted									
2 FORMATION DESCRIPTION				6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public									
				7 CASING Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded <u>5</u> in. to <u>150</u> ft. depth <u>2 1/8</u> in. to <u>25</u> ft. depth Grouted Drill Hole Diameter <u>2 1/8</u> in. to <u>25</u> ft. depth Height: Above/Below Surface <u>1</u> ft. Weight <u> </u> lbs./ft. Drive Shoe ☐ Yes ☒ No									
Brown Clay				THICKNESS OF STRATUM <u>10</u>		DEPTH TO BOTTOM OF STRATUM <u>10</u>		8 SCREEN: ☒ Not Installed Type <u> </u> Diameter <u> </u> Slot/Gauze <u> </u> Length <u> </u> Set between <u> </u> ft. and <u> </u> ft. FITTINGS: ☐ K-Packer ☐ Load Packer ☐ Bremer Check ☐ Blank above screen <u> </u> ft. Other <u> </u>					
Brown Sand				<u>35</u>		<u>45</u>		9 STATIC WATER LEVEL: <u>25</u> ft. below land surface ☐ Flow					
Brown + Grey Sand + Fine Gravel				<u>95</u>		<u>140</u>		10 PUMPING LEVEL: below land surface <u>200</u> ft. after <u>1</u> hrs. pumping at <u>80</u> G.P.M. <u> </u> ft. after <u> </u> hrs. pumping at <u> </u> G.P.M.					
Cemented White Sandstone				<u>10</u>		<u>150</u>		11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit					
White, Green Sandstone + Brown								12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☐ Bentonite ☐ Other <u> </u> No. of bags of cement <u> </u> Additives <u> </u>					
Limestone				<u>52</u>		<u>202</u>		13 Nearest source of possible contamination Type <u>Septic</u> Distance <u>65</u> ft. Direction <u>S</u> Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☒ Yes ☐ No					
WELL LOG INCOMPLETE.								14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u>FW</u> Model number <u> </u> HP <u>1/2</u> Volts <u>230</u> Length of Drop Pipe <u>600</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: <u>NO TANK</u> Manufacturer's name <u> </u> Capacity <u> </u> Gallons					
9-27-91 MCC								15. Remarks, elevation, source of data, etc. <u>USE A 2ND SHEET IF NEEDED</u>					
17. Rig Operator's Name: <u>Tim Smith</u>				16 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS</u> REGISTERED BUSINESS NAME <u>Corneil & Son's Inc</u> REGISTRATION NO. <u>0817</u> Address <u>5011 N. Highland</u> <u>Williston, MI</u> Signed <u>Merwin W. Corneil</u> Date <u>9-6-91</u> P.O.A. <u>C.A.</u> AUTHORIZED REPRESENTATIVE									

D67d 2/89

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1793

1 LOCATION OF WELL					
County JACKSON	Township Name HENRIETTA	Fraction 1/4	Section Number 13	Town Number 1-0 N/S	Range Number 1 E/W
Distance And Direction From Road Intersection					
Street Address & City of Well Location					
Locate with "X" in Section Below					
 Sketch Map: 					
2 FORMATION DESCRIPTION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM		
SAND & CLAY		35	35		
CLAY		85	120		
CEMENTED GRAVEL		10	130		
LIME & SAND ROCK		25	155		
3 OWNER OF WELL: WILLIE STEPHENS Address 8827 COON HILL RD MUNITH, MICH 49259 Address Same As Well Location? ☐ Yes ☒ No					
4 WELL DEPTH: Date Completed 7-24-89 155 FT. ☒ New Well ☐ Replacement Well					
5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐					
6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐					
7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded Height: Above/Below Surface 5 in. to 143 ft. depth Weight 78 lbs./ft. SHALE BOOT Grouted Drill Hole Diameter 78 in. to 143 ft. depth Drive Shoes ☐ Yes ☒ No					
8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____					
9 STATIC WATER LEVEL: 15 ft. below land surface ☐ Flow					
10 PUMPING LEVEL: below land surface 45 ft. after 1 hrs. pumping at 30 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.					
11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit					
12 WELL GROUTED? ☐ No ☒ Yes From 0 to 143 ft. ☐ Neat cement ☒ Bentonite ☐ Other _____ No. of bags of cement _____ Additives _____					
13 Nearest source of possible contamination Type _____ Distance _____ ft. Direction _____ Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No					
14 PUMP: ☐ Not installed ☐ Pump Installation Only Manufacturer's name Goulds Model number 10570422 HP 1 Volts 230 Length of Drop Pipe 415 ft. capacity 10 G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name A.O. Smith Model number V60 Capacity 42 Gallons					
15. Remarks, elevation, source of data, etc.					
16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. SEBASTIAN & SONS WELL DRILLING 1559 REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address 28731 W. DRIVE NORTH Springport Mich Signed William Sebastian Date 7-24-89 AUTHORIZED REPRESENTATIVE					
17. Rig Operator's Name:					

WATER WELL AND PUMP RECORD

PERMIT NUMBER

4535

1 LOCATION OF WELL		County <u>Jackson</u>		Township Name <u>Denwith</u>		Fraction <u>SE 1/4 SW 1/4</u>		Section Number <u>13</u>		Town Number <u>1 N 8</u>		Range Number <u>1 E 11</u>	
Distance And Direction From Road Intersection <u>226 First St. Munith</u>													
Street Address & City of Well Location <u>226 First St. Munith</u>													
Locate with "X" in Section Below				Sketch Map									
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		3 OWNER OF WELL: <u>Eileen Young</u>					
<u>Clay</u>				<u>60</u>		<u>60</u>		Address <u>13771 Unadilla Rd</u>					
<u>Sand + Gravel</u>				<u>40</u>		<u>100</u>		City <u>Coregony, MI 48137</u>					
<u>Black Shale White Shale</u>				<u>30</u>		<u>130</u>		Address Same As Well Location? ☐ Yes ☒ No					
<u>White Lime Rock +</u>								4 WELL DEPTH: <u>186</u> FT. Date Completed <u>9/22/93</u> ☒ New Well ☐ Replacement Well					
<u>Blue Sand Rock</u>				<u>56</u>		<u>186</u>		5 CASING: Diameter <u>5</u> in. to <u>130</u> ft. depth ☒ Steel ☐ Threaded ☐ Plastic ☐ Welded					
								6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public					
								7 SCREEN: ☒ Not Installed					
								8 STATIC WATER LEVEL: <u>25</u> ft. below land surface ☐ Flow					
								9 PUMPING LEVEL: below land surface <u>215</u> ft. after <u>1</u> hrs. pumping at <u>15</u> G.P.M.					
								10 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit					
								11 WELL GROUDED? ☐ No ☒ Yes From <u>0</u> to <u>130</u> ft					
								12 NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type <u>TANK</u> Distance <u>75</u> ft. Direction <u>N</u>					
								13 PUMP: ☐ Not Installed ☐ Pump Installation Only					
								14 PUMP: Manufacturer's name <u>Goould</u> Model number <u>112</u> HP <u>230</u> Volts <u>230</u>					
								15 REMARKS, ELEVATION, SOURCE OF DATA, ETC.					
								16 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.					
								17 RIG OPERATOR'S NAME: <u>M.W. Cornish & Sons, Inc</u>					
								18 WATER WELL CONTRACTOR'S CERTIFICATION: Address <u>5011 N. Meridian Rd. Wmston</u>					
								19 WATER WELL CONTRACTOR'S CERTIFICATION: Signed <u>M.W. Cornish</u> Date <u>9-30-93</u>					
								20 WATER WELL CONTRACTOR'S CERTIFICATION: AUTHORIZED REPRESENTATIVE					

RECEIVED
MICH. DEPT. OF PUBLIC HEALTH

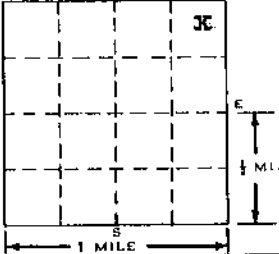
DEC 14 93

BUREAU OF ENVIRONMENTAL
AND OCCUPATIONAL HEALTH

USE A 2ND SHEET IF NEEDED

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		3 OWNER OF WELL:																																														
County Jackson	Township Name Henrietta	Fraction 1/4 1/4 1/4	Section Number 13																																													
Distance And Direction From Road Intersection Corner of Henrietta Rd. and Plum Orchard Rd.		Town Number 1-6 N/S																																														
Street Address & City of Well Location 8987 Plum Orchard Rd. Munith, Mich. 49259		Range Number 1 E/12																																														
Locate with "X" in Section Below 		Address Judy Snay 8638 Coonhill Rd. Munith, Michigan 49259 Address Same As Well Location? ☐ Yes ☒ No																																														
2 FORMATION DESCRIPTION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">THICKNESS OF STRATUM</th> <th style="text-align: center;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr><td>Clay and gravel and stones</td><td style="text-align: center;">50</td><td style="text-align: center;">50</td></tr> <tr><td>Clay and gravel</td><td style="text-align: center;">25</td><td style="text-align: center;">75</td></tr> <tr><td>Clay and sand</td><td style="text-align: center;">5</td><td style="text-align: center;">80</td></tr> <tr><td>Shale and gravel</td><td style="text-align: center;">25</td><td style="text-align: center;">105</td></tr> <tr><td>Limerock</td><td style="text-align: center;">15</td><td style="text-align: center;">120</td></tr> <tr><td>Limerock with strips of shale</td><td style="text-align: center;">18</td><td style="text-align: center;">138</td></tr> <tr><td>Sandrock</td><td style="text-align: center;">17</td><td style="text-align: center;">155</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Clay and gravel and stones	50	50	Clay and gravel	25	75	Clay and sand	5	80	Shale and gravel	25	105	Limerock	15	120	Limerock with strips of shale	18	138	Sandrock	17	155																						4 WELL DEPTH: (completed) 155 ft. 5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐	
			THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																																												
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6 USE: ☐ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐		7 CASING: ☒ Steel ☒ Threaded ☐ Welded ☐ Plastic ☐ Diameter 4 in. to 108 ft. depth Grouted Drill Hole Diameter _____ in. to _____ ft. depth Drive Shoe ☒ Yes ☐ No																																														
8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____		9 STATIC WATER LEVEL: 9 ft. below land surface ☐ Flow																																														
10 PUMPING LEVEL: below land surface 10 ft. after 1 1/2 hrs. pumping at 15 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.		11 WELL HEAD COMPLETION: ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit																																														
12 WELL GROUTED? ☒ No ☐ Yes From _____ to _____ ft. ☐ Neat cement ☐ Bentonite ☐ Other _____ No. of bags of cement _____ Additives _____		13 Nearest source of possible contamination Type _____ Distance _____ ft. Direction _____ Well disinfected upon completion? ☒ Yes ☐ No																																														
14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name Standard Model number 9D9P051 HP 1/2 Volts 230 Length of Drop Pipe 21 ft. capacity 10 G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name Well X-trol Model number WX202 Capacity 40 Gallons		15. Remarks, elevation, source of data, etc. RECEIVED Mich. Dept. of Public Health DEC 07 1987 Bureau of Environmental and Occupational Health - GWOS																																														
16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R.M. Brewer & Son Inc. 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address Parma, Michigan 49269 Signed <i>R.M. Brewer</i> Date 7/15/87 AUTHORIZED REPRESENTATIVE		Authority: Completion: Penalty: Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.																																														

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

3611

1 LOCATION OF WELL		County		Township Name		Fraction		Section Number		Town Number		Range Number	
Jackson		Hennrich		SE 1/4 NE 1/4		13		1-0 NIS		8		E/W	
Distance And Direction From Road Intersection				300' North of Waterdown Main Rd - on Main									
Street Address & City of Well Location				Address Same As Well Location? ☒ Yes ☐ No									
Locate with "X" in Section Below													
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		3 OWNER OF WELL					
Sandy Clay				30		30		Robert Taylor					
Sand & Gravel				70		50		Address 316 S. Main, Marquette, MI					
Shale				40		90		Date of Completion 10/29/91					
Sandy Silt				95		135		4 WELL DEPTH: (completed) 165 ft.					
Broken Limestone Rock				10		145		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug					
Sand Rock				70		165		☐ Hollow rod ☐ Auger ☐ Jetted ☐					
								6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public					
								☐ Irrigation ☐ Type IIa Public ☐ Heat pump					
								☐ Test Well ☐ Type IIb Public ☐					
								7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded					
								Height: Above/Below Surface 1 ft.					
								Weight 500-17 lbs. ft.					
								Drive Shoe ☐ Yes ☒ No					
								8 SCREEN: ☒ Not Installed					
								Type _____ Diameter _____					
								Slot/Gauze _____ Length _____					
								Set between _____ ft. and _____ ft.					
								FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Brainer Check					
								☐ Blank above screen _____ ft. Other _____					
								9 STATIC WATER LEVEL: 42 ft. below land surface ☐ Flow					
								10 PUMPING LEVEL: below land surface 42 ft. after 5 hrs. pumping at 50 G.P.M.					
								_____ ft. after _____ hrs. pumping at _____ G.P.M.					
								11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade					
								☐ Basement offset ☐ Approved pit					
								12 WELL GROUTED? ☐ No ☒ Yes From 0 to 145 ft.					
								☐ Neat cement ☒ Bentonite ☐ Other					
								No. of bags of cement 18 Bags Hot-Play Additives					
								13 Nearest source of possible contamination					
								Type Septic Tank Distance 55 ft. Direction N.W.					
								Well disinfected upon completion? ☒ Yes ☐ No					
								14 PUMP: ☐ Not installed ☐ Pump Installation Only					
								Manufacturer's name Poulco					
								Model number 10E1 HP 1/2 Volts 230					
								Length of Drop Pipe 12 ft. capacity 10 G.P.M.					
								TYPE: ☒ Submersible ☐ Jet					
								PRESSURE TANK: Manufacturer's name A-C Smith					
								Model number V-66 Capacity 1.2 Gallons					
15. Remarks, elevation, source of data, etc.				WATER WELL CONTRACTOR'S CERTIFICATION:									
				This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.									
				Washburn 1991 1150									
				REGISTERED BUSINESS NAME									
				Address 7305 Wellbush Pymme									
				Signed [Signature] Date [Signature]									
				AUTHORIZED REPRESENTATIVE									

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

County

Township Name

Fraction

Section Number

Town Number

Range Number

Jackson

Henrietta

NW 1/4 NW 1/4 NW 1/4

13

1-2 N/S.

1

E/W

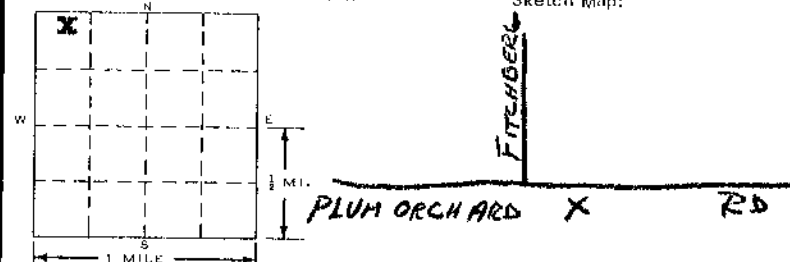
Distance And Direction from Road Intersections

1/10th Mile East of Fitchburg Rd on
south side of rd. 8133 Plum Orchard
Munith, Michigan.

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Address
Bob Hannewald
214 S. Washington St
Ypsilanti, Michigan

4 WELL DEPTH: (completed) Date of Completion

181 ft. 5/22/74

5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug☐ Hollow rod ☐ Jetted ☐ Bored ☐6 USE: ☒ Domestic ☐ Public Supply ☐ Industry☐ Irrigation ☐ Air Conditioning ☐ Commercial☐ Test Well ☐7 CASING: Threaded ☒ Welded ☐

Diam.

Height: Above/Below
Surface 1 ft.

4 in. to 39 ft. Depth

Weight 11 lbs./ft.

in. to ft. Depth

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: Dia.:

Slot/Gauze Length

Set between ft. and ft.

Fittings:

9 STATIC WATER LEVEL

14 ft. below land surface

10 PUMPING LEVEL below land surface

16 ft. after 2 hrs. pumping 17 g.p.m.

ft. after hrs. pumping g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) Chlorides (Cl)

Hardness Other

12 WELL HEAD COMPLETION:

☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade13 Well Grouted? ☐ Yes ☒ No☐ Neat Cement ☐ Bentonite

Depth: From ft. to ft.

14 Nearest Source of possible contamination

55 feet NE Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name Reda

Model Number 9D9P050 HP 1/2 Volts 115

Length of Drop Pipe 28 ft. capacity 12 G.P.M.

Type: ☒ Submersible☐ Jet☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

Well Permit #3300

ADDED INFO BY DRILLER, ITEM NO.

CORRECTED BY T.T.

EXAMINED BY

ELEVATION 252

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

R.M. Brewer & Son Inc. 106

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address Parma, Michigan 49269

Signed William Helmer

AUTHORIZED REPRESENTATIVE

Date 5/27/74

NOV 30 1977

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County Jackeen		Township Name Henrietta		Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$		Section Number 13		Town Number 1 XX/s.		Range Number 2 E/X.	
Distance And Direction from Road Intersections X 800' east of Sayers Road 250' south of M-106													
Street address & City of Well Location Locate with "X" in section below													
Sketch Map:				X M-106 800' → 250' ↓									
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		3 OWNER OF WELL: Fred Scott Address: 7585 Plum Orchard Road Munith, Michigan 49259					
								4 WELL DEPTH: {completed} 167 ft. Date of Completion 10/19/77					
XA clay, sand, and gravel				10		10		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐					
								6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐					
soft grey clay				8		18		7 CASING: Threaded ☒ Welded ☐ Height: Above Ground Surface 2 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐					
								8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fillings: _____					
gravel with grey clay				9		27		9 STATIC WATER LEVEL 15 ft. below land surface					
								10 PUMPING LEVEL below land surface 60 ft. after _____ hrs. pumping 15 w/air g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.					
sand				5		32		11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____					
								12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade					
gravel				4		36		13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.					
								14 Nearest Source of possible contamination _____ foot _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No					
black shale and gravel				8		44		15 PUMP: ☒ Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ Jet ☐ Reciprocating					
								16 Remarks, elevation, source of data, etc. Permit # 5642 ADDED INFO BY PERMIT, ITEM NO. _____ *CORRECTED BY _____ **ADDITION BY _____ ELEVATION _____ DEPTH TO ROCK _____					
grey shale with black strips				25		69		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Hart Well Drilling Company 522 REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address 1154 S. Jefferson St., Mason, Michigan Signed S.W. Hart Date 10/31/77 AUTHORIZED REPRESENTATIVE _____					
sandstone and shale				5		74							
grey shale				16		90							
limestone				4		94							
shale				18		112							
limestone				16		128							
sandstone green				4		132							
limestone				6		138							
sandstone, grey to white & lime				18		156							
sandstone				21		167							

MAR 27 1972

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT

OF HEALTH

1 LOCATION OF WELL

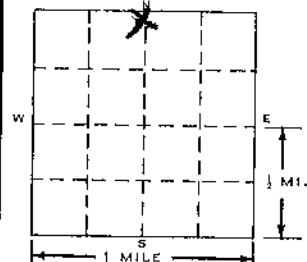
County Jackson Township Name Fourie HA Fraction NE 1/4 SE 1/4 NW 1/4 Section Number 13 Town Number 15 Range Number 1E

Distance And Direction from Road Intersections
1/4 mi. W. of intersection of middle of
road on M 106. W. L.H. Side.

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



M 106 X Highway 106

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Red clay.</u>	<u>20</u>	<u>20</u>
<u>schale.</u>	<u>10</u>	<u>30</u>
<u>granit.</u>	<u>30</u>	<u>60</u>
<u>sand rock</u>	<u>10</u>	<u>70</u>
<u>granit.</u>	<u>15</u>	<u>85</u>
<u>sand rock.</u>	<u>55</u>	<u>140</u>

3 OWNER OF WELL:

Address

4 WELL DEPTH: (completed)

140 ft.

Date of Completion

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well

7 CASING: Threaded ☒ Welded ☐

Diam.

4 in. to 9.5 ft. Depthin. to ft. Depth

Height: Above/Below

Surface 1 ft.Weight 11 lbs./ft.Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: NONE Dia.: _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

Fittings:

9 STATIC WATER LEVEL

14.6 ft. below land surface

10 PUMPING LEVEL below land surface

1.8 ft. after 1 hrs. pumping 32 g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____ Other _____

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No☐ Neat Cement ☒ Bentonite ☐Depth: From 0 ft. to 9.5 ft.

14 Nearest Source of possible contamination

50 feet S Direction Septic tank typeWell disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☒ Not installed

Manufacturer's Name _____

Model Number _____ HP _____ Volts _____

Length of Drop Pipe _____ ft. capacity _____ G.P.M.

Type: ☐ Submersible☐ Jet☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER ITEM NO.

SUBMITTED BY

REVISION BY

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Washburn Well Drilling 1150
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 548 Pershing Ave. Jackson, Mich.Signed John Washburn

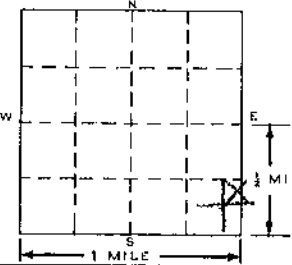
AUTHORIZED REPRESENTATIVE

Date Dec 12, 1971

WATER WELL AND PUMP RECORD

PERMIT NUMBER

			U	2	7	6	6
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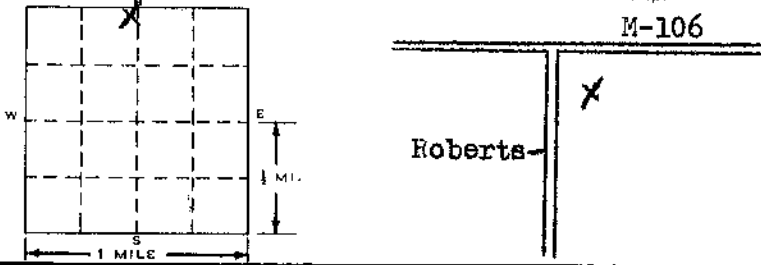
1 LOCATION OF WELL		County <u>Jackson</u>		Township Name <u>Herrietta</u>		Fraction <u>NE 1/4 SE 1/4 SE 1/4</u>		Section Number <u>13</u>		Town Number <u>1 N</u>		Range Number <u>1 E/W</u>	
Distance And Direction From Road Intersection <u>Next to 10300 Coon Hill Rd</u>				3 OWNER OF WELL: <u>Mark Hale</u> Address <u>5701 S M-52</u> <u>Stockbridge, MI</u> Address Same As Well Location? ☐ Yes ☒ No									
Street Address & City of Well Location				4 WELL DEPTH: <u>150</u> FT. Date Completed <u>08/22/90</u> ☒ New Well ☐ Replacement Well									
Locate with "X" in Section Below				5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐									
Sketch Map: 				6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐									
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		7 CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded <u>5</u> in. to <u>140</u> ft. depth <u>1 1/2</u> in. to <u>140</u> ft. depth Grouted Drill Hole Diameter <u>1 1/2</u> in. to <u>140</u> ft. depth <u>1 1/2</u> in. to <u>140</u> ft. depth Height: Above/Below Surface <u>1</u> ft. Weight <u> </u> lbs./ft. Drive Shoe ☐ Yes ☒ No					
<u>Sand + Clay</u>				<u>30</u>		<u>30</u>		8 SCREEN: ☒ Not Installed Type <u> </u> Diameter <u> </u> Slot/Gauze <u> </u> Length <u> </u> Set between <u> </u> ft. and <u> </u> ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen <u> </u> ft. Other <u> </u>					
<u>Clay</u>				<u>40</u>		<u>70</u>		9 STATIC WATER LEVEL <u>45</u> ft. below land surface ☐ Flow					
<u>Sand + Stones</u>				<u>30</u>		<u>100</u>		10 PUMPING LEVEL: below land surface <u>60</u> ft. after <u>1</u> hrs. pumping at <u>25</u> G.P.M. <u> </u> ft. after <u> </u> hrs. pumping at <u> </u> G.P.M.					
<u>Stones + White Shale</u>				<u>40</u>		<u>140</u>		11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit					
<u>Blue + White Sand Rock</u>				<u>10</u>		<u>150</u>		12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☒ Bentonite ☐ Other <u> </u> No. of bags of cement <u> </u> Additives <u> </u>					
RECEIVED MICH. DEPT. OF PUBLIC HEALTH FEB 10 84 BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH				13 Nearest source of possible contamination Type <u>Septic</u> Distance <u>75</u> ft. Direction <u>West</u> Well disinfected upon completion? ☒ Yes ☐ No Was old well plugged? ☐ Yes ☐ No									
				14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u>Wm Meyer</u> Model number <u> </u> HP <u>1/2</u> Volts <u>220</u> Length of Drop Pipe <u>60</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: <u>Well Rite</u> Manufacturer's name <u> </u> Model number <u>60-02</u> Capacity <u>30</u> Gallons									
				15. Remarks, elevation, source of data, etc.									
				16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>M W Cornell + Sons, Inc. 0819</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>5077 Meridian, Welland, MI</u> Signed <u>Sheryl White</u> Date <u>8-23-90</u> AUTHORIZED REPRESENTATIVE									
17. Rig Operator's Name: <u>D.A.C.</u>				Authority: <u> </u> Completion: <u> </u> Penalty: <u> </u> Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.									

USE A 2ND SHEET IF NEEDED

WATER WELL AND PUMP RECORD

PERMIT NUMBER

7998 X

1 LOCATION OF WELL County Jackson Township Name Henrietta Fraction NE 1/4 Section Number 13 Town Number T15 Range Number R1E Distance And Direction From Road Intersection 100' S of M-106; 100' E Roberts Dr. Parcel #1 Roberts Drive Street Address & City of Well Location Locate with "X" in Section Below 		3 OWNER OF WELL William Gipson 8745 Plum Orchard Address Munith, MI 49259 Address Same As Well Location? ☐ Yes ☒ No 4 WELL DEPTH: (completed) 137 ft. Date of Completion 8/6/84 5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted 6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public 7 CASING: ☐ Steel ☐ Threaded ☐ Welded ☒ Plastic ☐ Height: Above/Below 5 in. to 85 ft. depth Surface 1 ft. 8 in. to 85 ft. depth Weight 2 lbs./ft. Grouted Drill Hole Diameter in. to in. ft. depth Drive Shoe ☒ Yes ☐ No in. to in. ft. depth																									
2 FORMATION DESCRIPTION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">FORMATION DESCRIPTION</th> <th style="width:10%;">THICKNESS OF STRATUM</th> <th style="width:10%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr><td>Brown clay</td><td>17</td><td>17</td></tr> <tr><td>Gray shale</td><td>5</td><td>22</td></tr> <tr><td>Dirty gravelly shale</td><td>25</td><td>47</td></tr> <tr><td>Fine shaley sand</td><td>23</td><td>70</td></tr> <tr><td>Soft shaley sandstone</td><td>8</td><td>78</td></tr> <tr><td>Layers of sandstone & limestone</td><td>42</td><td>120</td></tr> <tr><td>Sandstone</td><td>17</td><td>137+</td></tr> </tbody> </table>		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Brown clay	17	17	Gray shale	5	22	Dirty gravelly shale	25	47	Fine shaley sand	23	70	Soft shaley sandstone	8	78	Layers of sandstone & limestone	42	120	Sandstone	17	137+	8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____ 9 STATIC WATER LEVEL: 21 ft. below land surface ☐ Flow 10 PUMPING LEVEL: below land surface 38 ft. after 4 hrs. pumping at 20 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M. 11 WELL HEAD COMPLETION: ☐ Pillbox adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit 12 WELL GROUTED? ☐ No ☒ Yes From 0 to 85 ft. ☐ Neat cement ☐ Bentonite ☐ Other super gel No. of bags of cement 2 Additives _____ 13 Nearest source of possible contamination Type s tank Distance 50 ft. Direction S Well disinfected upon completion? ☒ Yes ☐ No 14 PUMP: ☒ Not Installed ☐ Pump Installation Only Manufacturer's name Black Model number 2WS15N6-PAP 1/2 Volts 240 Length of Drop Pipe 56 ft. capacity 10 G.P.M. TYPE ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name Well & Fuel Model number 20A Capacity 19 Gallons	
FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																									
Brown clay	17	17																									
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15. Remarks, elevation, source of data, etc. RECEIVED Mich. Dept. of Public Health JAN 8 1985 Bureau of Environmental and Occupational Health - GWQS USE A 2ND SHEET IF NEEDED		16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Boley Well Drilling, 1517 REGISTERED BUSINESS NAME REGISTRATION NO. Address 6587 Sweezy Lake Rd., Brooklyn, MI 49230 Signed C. J. Boley, Inc. Date 12/12/84 AUTHORIZED REPRESENTATIVE																									

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		3 OWNER OF WELL																
County Jackson	Township Name Henrietta	Section Number 13	Town Number 11 S Range Number 11 E															
Distance And Direction From Road Intersection 1/10 mi S M-106 (Plum Orchard) & Main St.		Address George Rickman 318 N. Main Street Munith, MI 49259																
Street Address & City of Well Location 318 N. Main Street		Address Same As Well Location? ☒ Yes ☐ No																
Locate with "X" in Section Below		4 WELL DEPTH: (completed) 53 ft. Date of Completion 12/7/87																
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐																
		6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:40%;">2 FORMATION DESCRIPTION</th> <th style="width:10%;">THICKNESS OF STRATUM</th> <th style="width:10%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> <tr> <td>Clay</td> <td>9</td> <td>9</td> </tr> <tr> <td>Sand, gravel and clay</td> <td>12</td> <td>21</td> </tr> <tr> <td>Sand, gravel and shale</td> <td>21</td> <td>42</td> </tr> <tr> <td>Sand and gravel</td> <td>11</td> <td>53</td> </tr> </table>		2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Clay	9	9	Sand, gravel and clay	12	21	Sand, gravel and shale	21	42	Sand and gravel	11	53	7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded 5 in. to 48 ft. depth 6 in. to 48 ft. depth 8 in. to 48 ft. depth 10 in. to 48 ft. depth Height: Above/below Surface 1 ft. Weight 2 lbs./ft. Drive Shoe ☒ Yes ☐ No	
		2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM														
Clay	9	9																
Sand, gravel and clay	12	21																
Sand, gravel and shale	21	42																
Sand and gravel	11	53																
		8 SCREEN: ☐ Not Installed Type stainless Diameter 5" Slot/Gauze .015 Length 6' Set between 47 ft. and 53 ft. FITTINGS: ☒ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen 1.5 ft. Other																
		9 STATIC WATER LEVEL: 8 ft. below land surface ☐ Flow																
		10 PUMPING LEVEL: below land surface 13 ft. after 1 hrs. pumping at 20 G.P.M. ft. after hrs. pumping at G.P.M.																
		11 WELL HEAD COMPLETION: ☐ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit																
		12 WELL GROUTED? ☐ No ☒ Yes From 0 to 48 ft. ☐ Neat cement ☐ Bentonite ☐ Other Quik gel No. of bags of cement 2 Additives Bensoal																
		13 Nearest source of possible contamination Type s tank Distance 50 ft. Direction W Well disinfected upon completion? ☒ Yes ☐ No																
		14 PUMP: ☒ Not Installed ☐ Pump Installation Only Manufacturer's name Model number 11P Volts Length of Drop Pipe ft. capacity G.P.M. TYPE: ☐ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name Model number Capacity Gallons																
		15. Remarks, elevation, source of data, etc.																
RECEIVED Mich. Dept. of Public Health JAN 11 1988 Bureau of Environmental and Occupational Health - GWOS		16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.																
		FOX & BOLEY WELL DRILLING, INC. 0167 REGISTERED BUSINESS NAME REGISTRATION NO. Address 6655 Brooklyn Rd., Jackson, MI 49201 Signed <i>Norma L. Melville</i> Date 12/8/87 AUTHORIZED REPRESENTATIVE																

Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

43

1 LOCATION OF WELL		County Jackson		Twp. Henrietta	Fraction NN 1/4 NN 1/4 NE 1/4	Section No. 13	Town 1-N/S.	Range 1 E/W
Distance And Direction from Road Intersections 1/2 Mi W. of inter of Plum Orchard Rd & Coon Hill Rd. On S. side of Plum Orchard Rd.					3 OWNER OF WELL: Oscar Ousley Address 8364 Plum Orchard Rd Munith, Mich			
Street address & City of Well Location 8364 Plum Orchard Rd.					4 WELL DEPTH: (completed) 176 ft. Date of Completion 4/11/67			
2 FORMATION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Borad ☐				
Sand-red		30	30	6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐				
Clay		30	60	7 CASING: Diam. Threaded ☒ Welded ☐ Height: Above 1 ft. 4 in. to 91 1/2 ft. Depth surface 11 lbs./ft. _____ in. to _____ ft. Depth Drive Shoes? Yes ☒ No ☐				
Gravel-fine		15	75	8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____				
Shale-dark-hard		12	87	9 STATIC WATER LEVEL 15 ft. below land surface				
Sand Rock		13 3	90	10 PUMPING LEVEL below land surface 17 ft. after 2 hrs. pumping 16 1/2 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.				
Lime "		49	139	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____				
Sand Rock-brown		37	176	12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade				
				13 GROUTING: Well Grouted? ☐ Yes ☒ No Material: ☐ Neat Cement ☐ _____ Depth: From _____ ft. to _____ ft.				
				14 SANITARY: Nearest Source of possible contamination 65 feet S Direction Septic Type Well disinfected upon completion ☒ Yes ☐ No				
				15 PUMP: Manufacturer's Name Not Installed Model Number _____ HP _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating				
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. *CORRECTED BY: RFB ** I.M. BY: <i>elev 3022'</i>				17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R M Brewer & Son Inc 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address Rt 1 Parma, Mich Signed <i>Douglas L. Brewer</i> Date 5/10/67 AUTHORIZED REPRESENTATIVE				

MAY 23 1967

APR - 5 1976

WATER WELL RECORD #4216

ACT 294 PA 1965

MICHIGAN DEPARTMENT

OF
PUBLIC HEALTH

1 LOCATION OF WELL

County Jackson	Township Name Henrietta	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	Section Number 13	Town Number N/S.	Range Number E/W.
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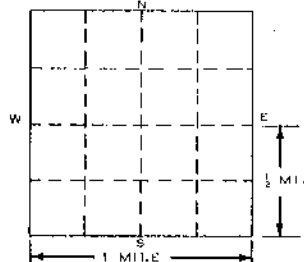
Distance And Direction from Road Intersections

2nd road west of Munith on private road

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL:

Don NegusAddress
**10248 Mt. Hope Rd.
Munith**

4 WELL DEPTH: (completed) Date of Completion

160 ft. **3-8-76**

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jotted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☐ Welded ☒ Height: Above ~~Water~~
Diam. Surface **1** ft.

4 in. to **86** ft. Depth Weight **11** lbs./ft.
in. to ft. Depth Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: _____ Dia.: _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft.
Fittings: _____

9 STATIC WATER LEVEL

15 ft. below land surface

10 PUMPING LEVEL below land surface

160 ft. after **1** hrs. pumping **35** g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____ Other _____

12 WELL HEAD COMPLETION: ☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade13 Well Grouted? ☒ Yes ☐ No☐ Neat Cement ☒ Bentonite ☐

Depth: From _____ ft. to _____ ft.

14 Nearest Source of possible contamination

_____ foot _____ Direction _____ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installedManufacturer's Name **Myers**Model Number _____ HP **1** Volts **230**Length of Drop Pipe **40** ft. capacity **10** G.P.M.Type: ☒ Submersible☐ Jet☐ Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

LJT Rotary Well Drilling Inc. **1077**

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address **R# 2 Charlotte**

ITEM NO.

Signed **Lloyd Corda**

AUTHORIZED REPRESENTATIVE

Date **3-31-76**

ADDED INFO BY DRILLER, ITEM NO.

*CORRECTED BY

**ADDITION BY

ELEVATION

DEPTH TO ROCK

USE A 2ND SHEET IF NEEDED

Dennis # 4216

OCT 29 1973

WATER WELL RECORD
ACT 294 PA 1965MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL County Jackson Township Name Henrietta Fraction SE 1/4 NW 1/4 NE 1/4 Section Number 13 Town Number T1S N/S. Range Number R1E E/W.		3 OWNER OF WELL: Address Ralph Krichbaum 11711 Bunker Hill Rd. Pleasant Lake, MI. 49272																																																				
Distance And Direction from Road Intersections 2/10 mile south of M-106 and 3 1/2 tenths mile west of M5back Rd. Street address & City of Well Location Roberts Dr., Munith Locate with "X" in section below Sketch Map:		4 WELL DEPTH: (completed) Date of Completion 160 ft. 8/17/73																																																				
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐																																																				
2 FORMATION		6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐																																																				
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FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																																																				
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16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER <i>[Signature]</i> CORRECTED BY <i>[Signature]</i> ADDITION BY <i>[Signature]</i>		9 STATIC WATER LEVEL 12 ft. below land surface 10 PUMPING LEVEL below land surface _____ ft. after _____ hrs. pumping _____ g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.																																																				
17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. HART WELL DRILLING COMPANY 1154522 REGISTERED BUSINESS NAME REGISTRATION NO. Address 1154 S. Jefferson, Mason, MI. 48854 Signed <i>[Signature]</i> Date 8/20/73 AUTHORIZED REPRESENTATIVE		11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____																																																				
12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade		13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.																																																				
14 Nearest Source of possible contamination 50 feet east Direction septic Type Well disinfected upon completion ☒ Yes ☐ No		15 PUMP: ☐ Not installed Manufacturer's Name McDonald Model Number 16050G9 HP 1/2 Volts 230 Length of Drop Pipe 60 ft. capacity 12 G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating installed by others																																																				

TAX NO.

MICHIGAN WATER WELL AND PUMP RECORD

Permit No. 1 6 6 4

1 Location of Well		County		Township Name		Fraction		Section Number		Town Number		Range Number	
JACKSON		HENRIETTA		NM 1/4 NE 1/4 NE 1/4		13		18		N/S		1E E/W	
2 Distance and Direction From Road Intersection								3 Owner of Well BRUCE P. BURBA					
10908 ROBERTS DRIVE MUNITH								Address 8414 REESE LAKE ANN ARBOR MI 48103-					
Street Address and City of Well Location								Address Same as Well Location? No					
Sketch Map								4 Well Depth (Completed) 180 ft. Date of Completion 05/28/96 New Well					
								5 Drilling Method AIR ROTARY					
								6 Proposed Use DOMESTIC					
2 FORMATION DESCRIPTION								7 Casing PLASTIC Height Above					
BROWN CLAY								5 in. to 137 ft. depth Surface 1 ft.					
GRAVEL								in. to ft. depth Weight lbs./ft.					
GREEN SHALE								Bore Hole Diameter					
LIMESTONE								7 7/8 in. to 137 ft. depth Drive Shoe No					
SANDSTONE								4 7/8 in. to 180 ft. depth Shale Packer No					
GREEN STONES								8 Screen Not Installed Gravel-packed? No					
SANDSTONE													
								9 Static Water Level 20 Ft. Below Land Surface Flow					
								10 Pumping Level Below Land Surface					
								80 ft. after 1 hrs. pumping at 20 G.P.M.					
								ft. after hrs. pumping at G.P.M.					
								Using AIR					
								11 Well Head Completion PITLESS ADAPTER					
								12 Well Grouted? Yes From 0 to 137 ft.					
								BENTONITE					
								No. of bags 23 Additives					
								13 Nearest Source of Possible Contamination					
								SEPTIC TANK Distance 70 ft. Direction NE					
								Distance ft. Direction					
15 Abandoned well plugged? No								14 Pump Installed Pump Installation Only? No					
Casing Diameter in. Depth ft.								Manufacturer's Name RED JACKET					
Casing removed? No								Model Number HP 1/2 Volts 220					
								Length of Drop Pipe 80 ft. Capacity 10 G.P.M.					
								Type SUBMERSIBLE Jet					
16 Remarks, elevation, source of data, etc.								Pressure tank:					
								Manufacturer's Name WELL-RITE					
								Pressure Tank Model 202 Capacity 20 gal.					
17 Drilling machine operator:								18 Water Well Contractor's Certification:					
Employee								This well was drilled under my jurisdiction and this report is true					
Name MARK TURNER								to the best of my knowledge and belief.					
Authority: Act 360 PA 1978								Registered business name: M. W. CORNELL & SONS, INC					
Completion: Required.								Registration number: 0819					
Penalty: Conviction of violation of any								Address: 5077 N. MERIDIAN ROAD, WILLIAMSTON, MI 48895					
provision is a misdemeanor.								Signed: <u>Meri W. Cornell</u> Date <u>8-28-96</u>					
IMPORTANT: File with deed.								(Authorized representative)					

RECEIVED

JUN 17 1996

JACKSON COUNTY
HEALTH DEPT.RECEIVED
Mich. Dept. of Public Health

JUL 18 1996

BUREAU OF ENVIRONMENTAL AND
OCCUPATIONAL HEALTH-SWQSP.O.A
C.N

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

26002404

1. LOCATION OF WELL

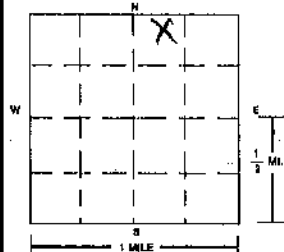
County Jackson Township Name Henric Ha Fraction 1/4 Section No. 13 Twp. No. 15 Range No. 1E

Distance and Direction from Road Intersection

1 bl S. of 106 on E Side of
Roberts DR.

Street Address & City of Well Location

Locate with 'x' in Section Below



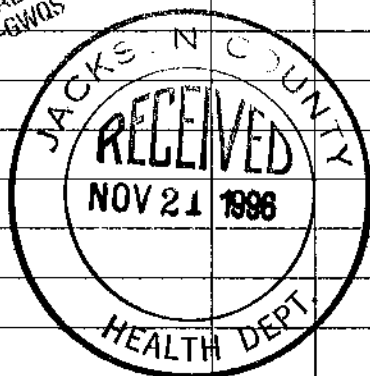
Sketch Map
mushback

106
x Roberts DR

2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

RECEIVED
Mich. Dept. of Public Health
DEC 30 1996
BUREAU OF ENVIRONMENTAL AND
OCCUPATIONAL HEALTH-GWQS



15. ABANDONED WELL PLUGGED?

☒ Yes ☐ No

Casing Diameter 4 in. Depth 40 ft.

PLUGGING MATERIAL:

☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☒ Bentonite Chips
No. of Bags 4 Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

pump stuck 40'

17. DRILLING MACHINE OPERATOR:

☐ Employee ☐ Subcontractor

Name

3. OWNER OF WELL

Address Scott Owens
10931-10933 Roberts DR.
Munith

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

ft. 9/27/96

☐ New Well
☒ Replacement Well

5. ☐ Cable Tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐

6. USE: ☐ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐

7. CASING:

☐ Steel ☐ Threaded
☐ Plastic ☐ Welded
☐ Other

Height: Above/Below
Surface: _____ ft

Diameter: _____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Weight: _____ lbs./ft.

BORE HOLE:

Diameter: _____ in. to _____ ft. depth
_____ in. to _____ ft. depth

☐ Drive Shoe
☐ Shale Packer

8. SCREEN: ☐ Not Installed ☐ Gravel-Packed

Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.

FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:

_____ ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface

_____ ft. After _____ hrs. Pumping at _____ G.P.M.
☐ Plunger ☐ Bailer ☐ Air ☐ Test Pump

11. WELL HEAD COMPLETION:

☐ Pitless Adapter ☐ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☐ Yes From _____ to _____ ft.

☐ Neat Cement ☐ Bentonite ☐ Other _____
No. of Bags _____ Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type _____ Distance _____ ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☒ Pump Installation Only

Manufacturer's Name Fluitt & Walling
Model Number 4F1065-005 HP 1/2 Volts 115
Length of Drop Pipe 35 ft. Capacity 10 G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other

PRESSURE TANK:

Manufacturer's Name Champion
Model Number CM202 Capacity 6 Gallons

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge.

MURPHY'S & MATTHEWS PUMPS

Sales & Service

REGISTERED BUSINESS 4601 Page Ave.

Address MICHIGAN CENTRAL 341 40054

Signed

gph Murphy AUTHORIZED REPRESENTATIVE

Date 10-24-96

Authority: Act 368 PA 1978

Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY COPY

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:
2600-2600

1. LOCATION OF WELL

County: JACKSON Township Name: Henrietta Fraction: NE 1/4 NW 1/4 NE 1/4 Section No.: 13 Town No.: 15 Range No.: 1E

Distance and Direction from Road Intersection
1 bl. S. of 106 on E. side of ROBERTS DR.

Street Address & City of Well Location

Locate with 'x' in Section Below

Sketch Map

Musbach

106

ROBERTS DR.

2. FORMATION DESCRIPTION

	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
brown clay & 5% of gravel	37	37
gray clay & stones	42	79
green sandrock & shale	8	87
gray sandrock	11	98
red shale & gray	12	110
lime & shale	45	155
gray sandrock	30	185

RECEIVED
Mich. Dept. of Public Health
NOV 23 1996
BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH
OCT 09 1996

3. OWNER OF WELL

Address: SCOTT OWEN 10931-10933 ROBERTS DR. MURRICH

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH: 97.9 ft. Date Completed: 9-27-96 ☐ New Well ☒ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Auger/Bored ☐ Jetted

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump ☐ Test Well ☐ Type IIb Public

7. CASING: ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded ☐ Other

Height: Above/Below Surface: 1 ft

Diameter: 5 in. to 89 ft. depth Weight: lbs./ft.

BORE HOLE: Diameter: 7 3/8 in. to 89 ft. depth ☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed

Type: Slot/Gauze: Length: Set Between: ft. and: ft.

FITTINGS: ☐ K-Packer ☐ Bremer Check ☐ Blank Above Screen ft. Other:

9. STATIC WATER LEVEL: 15 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface 185 ft. After 2 hrs. Pumping at 50 G.P.M. ☐ Plunger ☐ Bailor ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION: ☐ Pitless Adapter ☒ 12" Above Grade ☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From 0 to 89 ft. ☐ Neat Cement ☐ Bentonite ☒ Other: GROUT

No. of Bags: 10 Additives:

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type: Septic Distance: 50 ft. Direction: Type: Distance: ft. Direction:

14. PUMP: ☒ Not Installed ☐ Pump Installation Only

Manufacturer's Name: Model Number: HP: Volts: Length of Drop Pipe: ft. Capacity: G.P.M. TYPE: ☐ Submersible ☐ Jet ☐ Other: PRESSURE TANK: Manufacturer's Name: Model Number: Capacity: Gallons:

15. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

TERRY'S WELL SERVICE 23-2033
REGISTERED BUSINESS NAME REGISTRATION NO.
Address: 2120 BELLEVUE HWY. OLIVET, MI 49076

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No

Casing Diameter: in. Depth: ft.

PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry ☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips

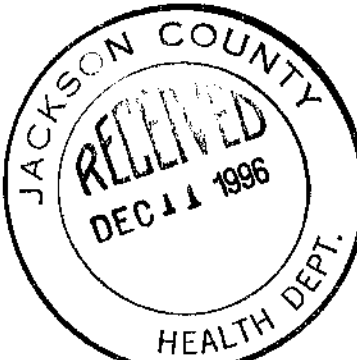
No. of Bags: Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

9" sch 80 27' TO 111'

17. DRILLING MACHINE OPERATOR: ☐ Employee ☐ Subcontractor

Name: KURT

1 Location of Well		2 Fraction		3 Section Number		4 Town Number		5 Range Number			
JACKSON		NE 1/4 NE 1/4 NE 1/4		13		19		N/S 1E E/W			
6 Distance and Direction From Road Intersection				3 Owner of Well BRUCE BURBA							
10902 ROBERTS DRIVE MUNITH, MI				Address 8414 REESE LANE ANN ARBOR MI 48103-							
7 Street Address and City of Well Location				Address Same as Well Location? No							
8 Sketch Map				4 Well Depth (Completed)		Date of Completion 11/17/96					
				160 ft.		New Well					
				5 Drilling Method AIR ROTARY							
				6 Proposed Use DOMESTIC							
2 FORMATION DESCRIPTION				7 Casing PLASTIC		8 Height Above					
		Thickness of		Depth to Bottom of		5 in. to 90 ft. depth		Surface 1 ft.			
		Stratum		Stratum		in. to ft. depth		Weight lbs./ft.			
BROWN CLAY		20		20		Bore Hole Diameter					
GRAVEL		60		80		7 7/8 in. to 90 ft. depth		Drive Shoe No			
SHALE		7		87		4 7/8 in. to 160 ft. depth		Shale Packer No			
SANDSTONE		8		95		8 Screen Not Installed Gravel-packed? No					
LIMESTONE		50		145							
SANDSTONE		15		160							
				9 Static Water Level 60		Ft. Below Land Surface		Flow			
				10 Pumping Level Below Land Surface		60		ft. after 1 hrs. pumping at 50		G.P.M.	
						ft. after hrs. pumping at		G.P.M.			
				Using AIR							
				11 Well Head Completion		PITLESS ADAPTER					
				12 Well Grouted? Yes		From 0 to 90 ft.					
				BENTONITE		No. of bags 3.5		Additives			
				13 Nearest Source of Possible Contamination		SEPTIC TANK					
						Distance 70+		ft. Direction NE			
						Distance		ft. Direction			
15 Abandoned well plugged? No				14 Pump Installed Pump Installation Only? No							
Casing Diameter		in. Depth ft.		Manufacturer's Name GOULDS							
Casing removed? No				Model Number		HP 1/2		Volts 220			
				Length of Drop Pipe 60		ft. Capacity 10		G.P.M.			
				Type SUBMERSIBLE		Jet					
16 Remarks, elevation, source of data, etc.				Pressure tank:							
				Manufacturer's Name WELL-MATE							
				Pressure Tank Model WM-9		Capacity		32 gal.			
17 Drilling machine operator:				18 Water Well Contractor's Certification:							
Employee				This well was drilled under my jurisdiction and this report is true							
Name MARK T. & JAMIE R.				to the best of my knowledge and belief.							
Authority: Act 368 PA 1978				Registered business name: M. W. CORNELL & SONS, INC							
Completion: Required.				Registration number: 0819							
Penalty: Conviction of violation of any provision is a misdemeanor.				Address: 5077 N. MERIDIAN ROAD, WILLIAMSTON, MI 48895							
IMPORTANT: File with deed.				Signed: <u>Meri W Cornell</u> Date <u>11-17-96</u>							
				(Authorized representative)							

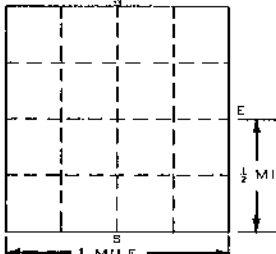
POA
C.W.

DEC 01 1978

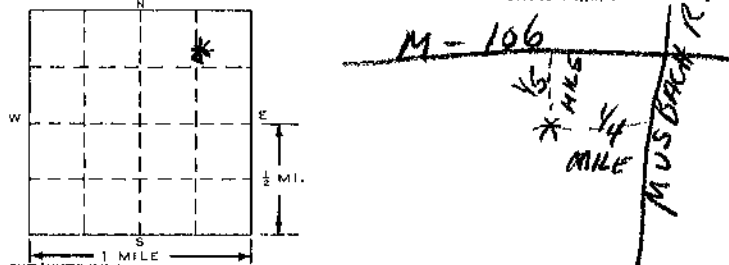
WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		
County Jackson	Township Name Henrietta	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ Section Number 13 Town Number N/S. Range Number E/W.
Distance And Direction from Road Intersections Middle duplex on Roberts Dr. near Munith		
Street address & City of Well Location 6152 Green Rd. Haslett, Mich.		
Locate with "X" in section below Sketch Map: 		
3 OWNER OF WELL: Don Negus Address 6152 Green Rd. Haslett, Mich.		
4 WELL DEPTH: (completed) Date of Completion 180 ft. 10-12-78		
5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐		
6 USE: ☐ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☒ Commercial ☐ Test Well ☐		
7 CASING: Threaded ☐ Welded ☒ Height: Above/Below Surface 1 ft. Diam. 4 in. to 88 ft. Depth Weight 11 lbs./ft. Drive Shoe? Yes ☐ No ☒		
8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____		
9 STATIC WATER LEVEL 40 ft. below land surface		
10 PUMPING LEVEL below land surface 180 ft. after 1 hrs. pumping 40 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.		
11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____		
12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade		
13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.		
14 Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No		
15 PUMP: ☐ Not Installed Manufacturer's Name Reda Model Number _____ HP 1/2 Volts 230 Length of Drop Pipe 65 ft. capacity 10 G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating		
16 Remarks, elevation, source of data, etc. 6416		
17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. LJT Rotary Well Drilling Inc. 1077 REGISTERED BUSINESS NAME REGISTRATION NO. Address R#2 Charlotte, Mich. Signed <i>Lloyd Pardo</i> Date 10-26-78 AUTHORIZED REPRESENTATIVE		

WATER WELL RECORD
ACT 294 PA 1965MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

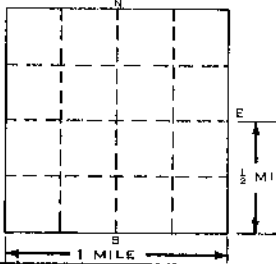
1 LOCATION OF WELL County <u>Jackson</u>		Township Name <u>Henrietta</u>		Fraction <u>SE 1/4 NE 1/4</u>	Section Number <u>13</u>	Town Number <u>1</u> S.	Range Number <u>1</u> E.
Distance And Direction from Road Intersections <u>1/2 mile west of Musbach Rd</u> <u>1/5 mile south of M-106</u>				3 OWNER OF WELL: Name <u>Leo Mathieu</u> Address <u>Box 92</u> <u>Howell, Mich. 48843</u>			
Street address & City of Well Location <u>Henrietta St.</u> Locate with "X" in section below				4 WELL DEPTH: (completed) <u>180</u> ft. Date of Completion <u>6/16/70</u>			
				5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐			
				6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐			
				7 CASING: Threaded ☒ Welded ☐ Diam. _____ Height: Above _____ ft. Surface <u>1</u> ft. Weight <u>11</u> lbs./ft. Drive Shoe? Yes ☒ No ☐			
				8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____			
2 FORMATION				9 STATIC WATER LEVEL <u>13</u> ft. below land surface			
red clay				10 PUMPING LEVEL below land surface <u>33</u> ft. after <u>1</u> hrs. pumping <u>25</u> g.p.m.			
red clay & gravel				_____ ft. after _____ hrs. pumping _____ g.p.m.			
gray clay & gravel				11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____			
gravel				12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade			
black shale				13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.			
gray shale				14 Nearest Source of possible contamination <u>100</u> feet <u>east</u> Direction <u>septic</u> Type _____ Well disinfected upon completion ☒ Yes ☐ No			
sandstone & white shale				15 PUMP: ☐ Not installed Manufacturer's Name <u>Red Jacket</u> Model Number <u>50N1-9ba</u> HP <u>1</u> Volts <u>230</u> Length of Drop Pipe <u>33</u> ft. capacity <u>12</u> G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating			
gray shale				16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. _____ *CORRECTED BY: _____ **ADDITION BY: _____			
limestone							
sandstone							
green limestone							
limestone							
gray shale				17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>Hart Well Drilling Co.</u> <u>522</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>Mason, Michigan</u> Signed <u>[Signature]</u> Date <u>June 30, 1970</u> AUTHORIZED REPRESENTATIVE			
sandstone							
limestone							
sandstone							
sandstone							

JUN 02 1980

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL			3 OWNER OF WELL:																							
County Jackson	Township Name Henrietta	Fraction 1/4 1/4 1/4	Section Number 13	Town Number 1 S.	Range Number 1 E/W.																					
Distance And Direction from Road Intersections Turn south off of M106 to First St. (207)			Address Mrs. Titus 207 First St. Munith, Mi.																							
Street address & City of Well Location Locate with "X" in section below 			4 WELL DEPTH: (completed) Date of Completion 180 ft. 4-1-80																							
2 FORMATION <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 40%;">FORMATION</th><th style="width: 20%;">THICKNESS OF STRATUM</th><th style="width: 20%;">DEPTH TO BOTTOM OF STRATUM</th></tr></thead><tbody><tr><td>Clay</td><td>35</td><td>35</td></tr><tr><td>Sand</td><td>53</td><td>88</td></tr><tr><td>Shale, soft sand stone</td><td>48</td><td>136</td></tr><tr><td>Sand stone</td><td>4</td><td>140</td></tr><tr><td>Lime rock</td><td>10</td><td>150</td></tr><tr><td>Sand stone</td><td>30</td><td>180</td></tr></tbody></table>			FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Clay	35	35	Sand	53	88	Shale, soft sand stone	48	136	Sand stone	4	140	Lime rock	10	150	Sand stone	30	180	5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐		
			FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																					
Clay	35	35																								
Sand	53	88																								
Shale, soft sand stone	48	136																								
Sand stone	4	140																								
Lime rock	10	150																								
Sand stone	30	180																								
			6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐																							
			7 CASING: Threaded ☐ Welded ☐ Plastic Diam. 5 in. to 136 ft. Depth Height: Above/Below Surface 1 ft. Weight 136 lbs./ft. Drive Shoe? Yes ☒ No ☐																							
			8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____																							
			9 STATIC WATER LEVEL 35 ft. below land surface																							
			10 PUMPING LEVEL below land surface 180 ft. after 1 hrs. pumping 30 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.																							
			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____																							
			12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade																							
			13 Well Grouted? ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ Depth: From _____ ft. to _____ ft.																							
			14 Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No																							
			15 PUMP: ☐ Not installed Manufacturer's Name McDonald Model Number _____ HP 1/2 Volts 230 Length of Drop Pipe 65 ft. capacity 10 G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating																							
16 Remarks, elevation, source of data, etc. ADDED INFO BY UNKNOWN ITEM N/A *CORRECTED BY **ADDITION BY ELEVATION DEPTH TO ROCK			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Lot Rotary Well Drilling Inc. 1077 REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address 812 Charlotte, Mi. Signed Lloyd Cordes Date 4-4-80 AUTHORIZED REPRESENTATIVE																							

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

JUL 27 1981

County **Jackson** Township Name **Henrietta** Fraction **NW 1/4 NE 1/4 NE 1/4** Section Number **13** Town Number **T4S** N/S. Range Number **R2E** E/W.

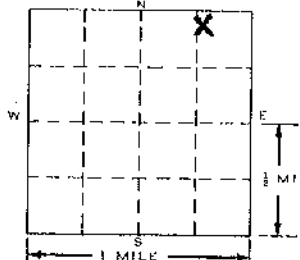
Distance And Direction from Road Intersections

100' south of M106
2/10ths west Musbach.

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Brown Clay	3	3
Sandy Clay & Gravel	8	11
Gravel & Stones	8	19
Gray Clay & Gravel	19	38
Sand, Gravel & Stones	14	52
Gray Clay, Stones & Gravel	38	90
Shale w/sandstone strips	24	114
Lime	17	131
Hard Sandstone	24	155
Sand w/limestrips	20	175

3 OWNER OF WELL:

Jerry Hackworth

Address

8777 M106**Munith, Michigan 49259**

4 WELL DEPTH: (completed) Date of Completion

175' ft. **5/14/81**

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Borod ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☐ Welded ☐

Diam.

PVC**5** in. to**98** ft. Depth**5** in. to**98** ft. DepthHeight: Above ~~XXXXX~~Surface **16"** ~~X~~ ft.Weight **2.87** lbs./ft.Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: _____ Dia.: _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

Fittings: _____

9 STATIC WATER LEVEL

18 ft. below land surface

10 PUMPING LEVEL below land surface

80 ft. after _____ hrs. pumping **25** g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____ Other _____

12 WELL HEAD COMPLETION:

☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade13 Well Grouted ☒ Yes ☐ No☐ Neat Cement ☒ Bentonite ☐

Depth: From _____ ft. to _____ ft.

14 Nearest Source of possible contamination

_____ feet _____ Direction _____ Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installedManufacturer's Name **Burke**Model Number **W5SNB88** HP **1/2** Volts **230**Length of Drop Pipe **40** ft. capacity **10** G.P.M.Type: ☒ Submersible☐ Jet☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
 permit # 7939
 CORRECTED BY
 **ADDITION BY
 ELEVATION **5925**
 DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true
 to the best of my knowledge and belief.

Hart Well Drilling Company**522**

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address **1154 S. Jefferson, Mason, MI. 48854**

Signed **S. W. Hart** Date **5-19-81**
 AUTHORIZED REPRESENTATIVE

JUN 07 1971

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

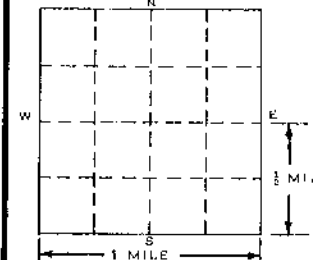
County Jackson Township Name Henrietta Fraction 1/4 NW 1/4 Section Number 13 Town Number 1 N. Range Number 1 E.

Distance And Direction from Road Intersections
1/4 mi west of Munnith on
M 106 - South side

Street address & City of Well Location M 106 Munnith

Locate with "X" in section below

Sketch Map:



Munnith
106 1/4 mi
SW side

2 FORMATION

THICKNESS
OF
STRATUM

DEPTH TO
BOTTOM OF
STRATUM

<u>clay</u>	<u>5</u>	<u>5</u>
<u>Gravel</u>	<u>40</u>	<u>45</u>
<u>Clay & Gravel</u>	<u>20</u>	<u>65</u>
<u>Clay & Shale</u>	<u>20</u>	<u>85</u>
<u>Gravel</u>	<u>5</u>	<u>90</u>
<u>Shale</u>	<u>40</u>	<u>130</u>
<u>Sandstone</u>	<u>30</u>	<u>160</u>

3 OWNER OF WELL:

Address

Rev. Charles E. Hart
67 Woodland St.
Brighton 1 Mich

4 WELL DEPTH: (completed) Date of Completion

160 ft. May 28, 70

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug

☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry

☐ Irrigation ☐ Air Conditioning ☐ Commercial

☐ Test Well ☐

7 CASING: Threaded ☒ Welded ☐ Height: Above/Below

Diam. 4 in. to 90 ft. Depth

4 in. to 90 ft. Depth

Weight 11 lbs./ft.

Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: Rock Dia.: _____

Slot/Gauze _____ Length _____

Set between _____ ft. and _____ ft.

Fittings: _____

9 STATIC WATER LEVEL

20 ft. below land surface

10 PUMPING LEVEL below land surface

30 ft. after 2 hrs. pumping 30 g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

none taken

Hardness _____ Other _____

12 WELL HEAD COMPLETION: ☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☒ Yes ☐ No

☐ Neat Cement ☒ Bentonite ☐

Depth: From _____ ft. to _____ ft.

14 Nearest Source of possible contamination

50 feet N Direction Septic Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name Kapadgian

Model Number 3P27 HP 1/3 Volts 115

Length of Drop Pipe 42 ft. capacity 10 G.P.M.

Type: ☒ Submersible

☐ Jet ☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

Kleinelt

ADDED INFO. BY DRILLER, ITEM NO.

*CORRECTED BY:

**ADDITION BY:

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Lorenz Well Drill 0050

REGISTERED BUSINESS NAME REGISTRATION NO.

Address Holt

Signed L. V. Vender Date 5/29/70

AUTHORIZED REPRESENTATIVE

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County <u>JACKSON</u> Twp. <u>HENRIETTA</u>		Fraction <u>SW 1/4 NW 1/4</u>	Section No. <u>13</u>	Town <u>1 N</u>	Range <u>1 W</u>
Distance And Direction from Road Intersections <u>3/10 MILE EAST OF FITCHBURG RD</u>				3 OWNER OF WELL: <u>JAMES HUNTER</u> Address <u>8737 PLUM ORCHARD</u> <u>MUNITH, MICH</u>			
1200' SOUTH OF M106 Street address & City of Well Location				OWNER No. _____			
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion				
<u>SAND</u>	<u>31</u>	<u>31</u>	<u>197</u> ft. <u>4-68</u>				
<u>GRAY SANDY CLAY</u>	<u>16</u>	<u>47</u>	5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐				
<u>GRAVEL</u>	<u>44</u>	<u>91</u>	6 USE ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐				
<u>SANDSTONE & SHALE</u>	<u>11</u>	<u>102</u>	7 CASING: Threaded ☒ Welded ☐ Height (Above/Below surface) <u>1</u> ft. <u>4</u> in. to <u>98</u> ft. Depth Weight <u>11</u> lbs/ft. _____ in. to _____ ft. Depth Drive Shoe? Yes ☒ No ☐				
<u>RED SHALE</u>	<u>12</u>	<u>114</u>	8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze: _____ Length: _____ Set between _____ ft. and _____ ft. Fittings: _____				
<u>GRAY SHALE</u>	<u>2</u>	<u>116</u>	9 STATIC WATER LEVEL <u>9</u> ft. below land surface				
<u>LIMESTONE</u>	<u>2</u>	<u>118</u>	10 PUMPING LEVEL below land surface <u>17</u> ft. after <u>2</u> hrs. pumping <u>35</u> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.				
<u>GRAY SHALE & LIMESTONE STRIPS</u>	<u>29</u>	<u>147</u>	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____				
<u>GREEN SHALE</u>	<u>2</u>	<u>149</u>	12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Flange Adapter ☐ 12" Above Grade				
<u>LIMESTONE</u>	<u>4</u>	<u>153</u>	13 GROUTING: Well Grouted? ☒ Yes ☐ No Material: ☐ Neat Cement ☒ BENTONITE Depth: From _____ ft. to _____ ft.				
<u>SANDSTONE</u>	<u>44</u>	<u>197</u>	14 SANITARY: Nearest Source of possible contamination <u>50</u> feet <u>N</u> Direction <u>Septic</u> Type Well disinfected upon completion ☒ Yes ☐ No				
			15 PUMP: Manufacturer's Name _____ Model Number <u>others</u> HP _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating				
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER. ITEM NO. <u>130</u> CORRECTED BY: _____ MODIFICATION BY: _____			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>East Well Drilling</u> REGISTERED BUSINESS NAME Address <u>Mason Mich</u> Signed <u>J. J. Platt</u> Date <u>5-20-68</u> AUTHORIZED REPRESENTATIVE REGISTRATION NO. <u>522</u>				

D67d 2/89

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

0794

1. LOCATION OF WELL

County

Jackson

Township Name

Henrietta

Fraction

NE 1/4 SE 1/4 SW 1/4

Section No.

T.1 S13

Town No.

T.1 S.

Range No.

R.1 E.

Distance and Direction from Road Intersection

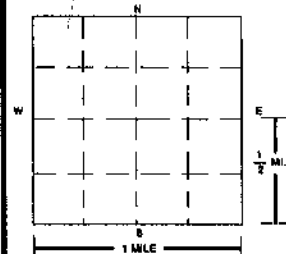
2/10 mi W. of First St. & Main St.

241 First St., Munith, MI 49259

Street Address & City of Well Location

Locate with 'x' in Section Below

Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Sandy clay

16'

16'

Fine sand

11'

27'

Clay

12'

39'

Fine sand

6'

45'

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ No

Casing Diameter _____ in.

Depth _____ ft.

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry☐ Neat Cement☐ Bentonite Slurry

No. of Bags _____

☐ Concrete Grout☐ Bentonite ChipsCasing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ SubcontractorName M. Wilson/S. Deland

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

FOX & BOLEY WELL DRILLING, INC.

0167

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 6655 Brooklyn Rd., Jackson, MI 49201Signed Charles J. Boley

AUTHORIZED REPRESENTATIVE

Date 5/31/95

GEOLOGICAL SURVEY COPY

Authority: Act 365 PA 1978

Completion: Required

Penalty: Commission of a violation of any provision is a misdemeanor.

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

1446

1. LOCATION OF WELL

County

Jackson

Township Name

Henrietta

Fraction

1/4 1/4 1/4

Section No.

13

Town No.

TIS

Range No.

RIE

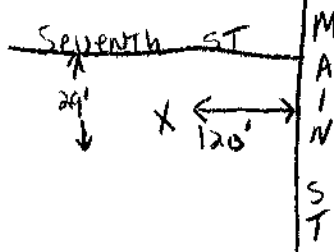
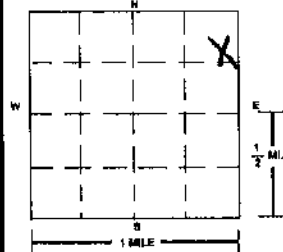
Distance and Direction from Road Intersection

120 ft West of Main Street
29 ft South of Seventh

Street Address & City of Well Location

Locate with 'x' in Section Below

Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Top Soil

2

2

Clay

11

13

Sand / Gravel

79

92

Clay

16

108

Gravel

4

112

Black Shale

6

118

Lime Rock

5

123

Shale / Sandstone

11

134

Lime Rock

12

145

Sandstone

24

170

3. OWNER OF WELL

Address

Munith United Methodist Church
220 N. Main
Munith MI 49259

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

Date Completed

170 ft.

10/13/95

☐ New Well☒ Replacement Well5. ☐ Cable Tool☒ Rotary☐ Driven☐ Dug☐ Hollow Rod☒ Auger/Bored☐ Jetted6. USE: ☒ Household☐ Type I Public☐ Type III Public☐ Irrigation☐ Type IIa Public☐ Heat Pump☐ Test Well☒ Type IIb Public7. CASING: ☐ Steel☐ Threaded

Height: Above/Below

PVC

☒ Plastic☐ Welded

Surface: 12" x

☐ Other

Diameter: 5" in. to 124 ft. depth

Weight: 2.87 lbs./ft.

in. to ft. depth

BORE HOLE:

Diameter: 8 3/4 in. to 123 ft. depth

☒ Drive Shoe

in. to ft. depth

☐ Shale Packer8. SCREEN: ☒ Not Installed☐ Gravel-Packed

Type

Diameter

Slot/Gauze

Length

Set Between

ft. and

FITTINGS: ☐ K-Packer☐ Bremer Check☐ Blank Above Screen

ft. Other

9. STATIC WATER LEVEL:

18 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

40 ft. After

hrs. Pumping at

15 G.P.M.

☐ Plunger☐ Bailer☒ Air☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter☐ 12" Above Grade☐ Basement Offset☐ Well House12. WELL GROUTED? ☐ No☒ Yes

From 123' to surface

☒ Neat Cement☐ Bentonite☐ Other

No. of Bags 30

Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type Septic

Distance 70 ft.

Direction East

Type

Distance

ft. Direction

14. PUMP: ☐ Not Installed☐ Pump Installation Only

Manufacturer's Name Owners

Model Number 10E705412

HP 1/2

Volts 230V

Length of Drop Pipe 40 ft.

Capacity 10

G.P.M.

TYPE: ☒ Submersible☐ Jet☐ Other

PRESSURE TANK:

Manufacturer's Name Well-Rite

Model Number 120-04

Capacity 33

Gallons 10

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Hart Well Drilling Company

1686

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 154 S. Jefferson St. Mason, MI 48854

Signed

AUTHORIZED REPRESENTATIVE

Date

10/19/95

Authority: Act 368 PA 1978

Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY COPY

15. ABANDONED WELL PLUGGED? ☒ Yes ☐ No

Casing Diameter 4 in.

Depth 40 ft?

PLUGGING MATERIAL:

☐ Neat Cement☐ Bentonite Slurry☐ Cement/Bentonite Slurry☐ Concrete Grout☒ Bentonite Chips

No. of Bags

Casing Removed? ☐ Yes ☒ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name Ron McGrimmon

GW-2-228 9/93

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

0573

1. LOCATION OF WELL

County

Jackson

Township Name

Henrietta

Fraction

1/4 1/4 1/4

Section No.

13

Town No.

T1S

Range No.

R1E

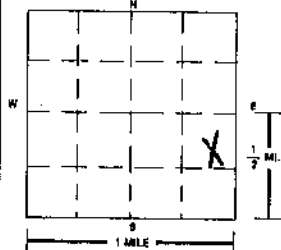
Distance and Direction from Road Intersection

200 ft West of Coonhill Road

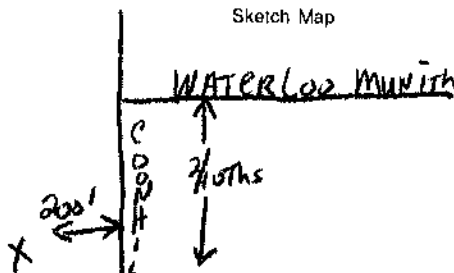
2/10ths Mile South of Waterloo Munith Road

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Brown Clay

27

27

Gray Clay

27

54

Sand / Gravel

14

68

Clay

14

82

Gravel

45

127

Gray Clay

2

129

Soft Sandstone

31

160

3. OWNER OF WELL

Address

Harold Patrick Jr.
10260 Coonhill Road
Munith, MI 49259Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH:

Date Completed

160

ft.

6-13-95

☐ New Well☒ Replacement Well5. ☐ Cable Tool☐ Hollow Rod☒ Rotary☒ Auger/Bored☐ Driven☐ Jetted☐ Dug

6. USE:

☐ Household☒ Type I Public☐ Type III Public☐ Irrigation☐ Type IIa Public☐ Heat Pump☐ Test Well☐ Type IIb Public☐

7. CASING:

☐ Steel☐ Threaded

Height: Above/Below

PVC

☒ Plastic☐ WeldedSurface: 12" ^{xxx}☐ Other

Diameter:

5

in.

to 136

ft. depth

Weight: 2.87

lbs./ft.

BORE HOLE:

Diameter:

8 3/4

in.

to 135

ft. depth

☐ Drive Shoe☒ Shale Packer

8. SCREEN:

☐ Not Installed☐ Gravel-Packed

Type

☒

Diameter

Slot/Gauze

Length:

Set Between

ft. and

ft.

FITTINGS:

☐ K-Packer☐ Bremer Check☐ Blank Above Screen

ft. Other

9. STATIC WATER LEVEL:

32

ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

55

ft. After

hrs. Pumping at

20

G.P.M.

☐ Plunger☐ Bailor☒ Air☐ Test Pump

11. WELL HEAD COMPLETION:

☐ Pitless Adapter☐ 12" Above Grade☒ Basement Offset☐ Well House

12. WELL GROUTED?

☐ No ☒ Yes

From 135' to

☐ Neat Cement☐ Bentonite☒ Other

Benseal

No. of Bags

7

Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type

Septic Tank

Distance

60

ft. Direction

Type

Distance

ft. Direction

East

14. PUMP:

☐ Not Installed☐ Pump Installation Only

Manufacturer's Name

Goulds

Model Number

10L305422

HP

1/2

Volts

230

Length of Drop Pipe

60

ft. Capacity

10

G.P.M.

TYPE:

☒ Submersible☐ Jet☐ Other

PRESSURE TANK:

Manufacturer's Name

Well-Rite

Model Number

WR120-04

Capacity

33.4

Gallons

10

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Hart-Well Drilling Company

Address

1154 S. Jefferson St., Mason, MI 48854

Signed

[Signature]

Date

6/23/95

REGISTERED BUSINESS NAME

REGISTRATION NO.

AUTHORIZED REPRESENTATIVE

Authority: Act 358 PA 1976

Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY COPY

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

0284

1. LOCATION OF WELL

County

Jackson

Township Name

Henrietta

Fraction

1/4 1/4 1/4

Section No.

13

Town No.

T1S

Range No.

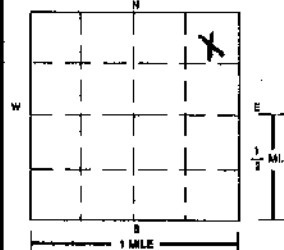
R1E

Distance and Direction from Road Intersection

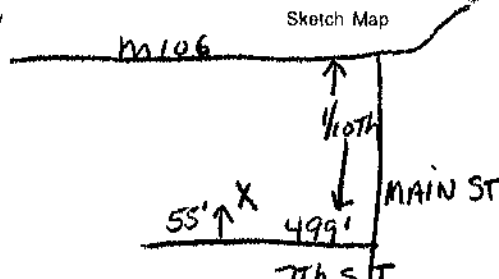
55 ft North of 7th Street
499 ft West of Main Street
1/10th Mile South of M-106

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Black Dirt	3	3
Brown Sandy Clay	5	8
Sand / Gravel / Rocks	11	19
Gray Clay	2	21
Coarse Gravel / Cobbles	10	31
Gray Clay	9	40
SAND - fine / Gravel - med	24	64
Coal	7	71
Gravel / Cobbles	9	80
Sandstone / Limestone	9	91
Sandstone	6	97
Red Shale	4	101
Gray Shale / Sandstone	8	109
Limestone / Green Shale	34	143
Sandstone	26	169

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED?

☒ Yes ☐ No

Casing Diameter

3

Depth

28

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry☐ Neat Cement☐ Bentonite Slurry☐ Concrete Grout☒ Bentonite Chips

No. of Bags

2

Casing Removed?

☐ Yes ☒ No

16. REMARKS (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☒ Employee ☐ Subcontractor

Name

Darrell Hein

3. OWNER OF WELL

Address

Garry Barr
212 W 7th Street
Munith, MI 49259

Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

Date Completed

169 ft. 11 / 9 94

☐ New Well☐ Replacement Well☐ Cable Tool☒ Rotary☐ Driven☐ Dug☐ Hollow Rod☒ Auger/Bored☐ Jetted☐

6. USE:

☒ Household☐ Type I Public☐ Type III Public☐ Irrigation☐ Type IIa Public☐ Heat Pump☐ Test Well☐ Type IIb Public☐

7. CASING:

☐ Steel☐ Threaded

Height: Above/Below

PVC

☒ Plastic☐ Welded

Surface: 12" x ft

☐ Other

Diameter: 5 in. to 108 ft. depth

Weight: 2.87 lbs./ft.

in. to ft. depth

BORE HOLE:

Diameter: 8 3/4 in. to 107 ft. depth

☒ Drive Shoe

in. to ft. depth

☐ Shale Packer

8. SCREEN:

☒ Not Installed☐ Gravel-Packed

Type

Diameter

Slot/Gauze

Length:

Set Between

ft. and ft.

FITTINGS:

☐ K-Packer☐ Bremer Check☐ Blank Above Screen

ft. Other

9. STATIC WATER LEVEL:

21 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

45 ft. After

hrs. Pumping at 15 G.P.M.

☐ Plunger☐ Bailor☒ Air☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter☐ 12" Above Grade☐ Basement Offset☐ Well House

12. WELL GROUTED?

☐ No☒ Yes

From 106' to surface

☐ Neat Cement☐ Bentonite☒ Other: Benseal

No. of Bags

4

Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type: SPTIC

Distance: 50 ft.

Direction: NW

Type:

Distance:

ft. Direction:

14. PUMP:

☐ Not Installed☐ Pump Installation Only

Manufacturer's Name

Goulds

Model Number

10L805422

HP

1

Volts

230

Length of Drop Pipe

40 ft.

Capacity

10

G.P.M.

TYPE:

☒ Submersible☐ Jet☐ Other

PRESSURE TANK:

Manufacturer's Name

A.O. Smith

Model Number

V-100

Capacity

31.8

Gallons

9.9

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Hart Well Drilling Company

1684

REGISTRATION NO.

Address

1154 S. Jefferson St. Mason, MI 48854

Signed

[Signature]

Date

11/11/94

GEOLOGICAL SURVEY COPY

Authority: Act 368 PA 1976

Compilation: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

1. LOCATION OF WELL

County

Jackson

Township Name

Henrietta

Fraction

N 1/4 S 1/4 E 1/4

Section No.

13

Town No.

1-3

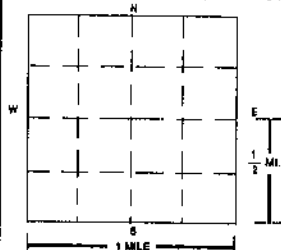
Range No.

1-E

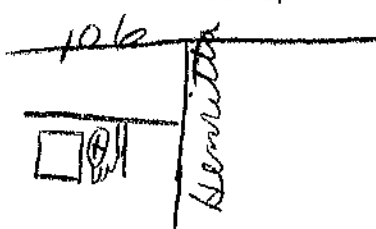
Distance and Direction from Road Intersection

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Clay + Gravel	60	60
Stones	10	70
Clay	10	80
Stones	15	95
Black Shale + some Rock White	35	130
Brown lime Rock Blue Sand		
Rock	56	186

APR 06 1995

JACKSON COUNTY
HEALTH DEPT.

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED?

☐ Yes ☒ No

Casing Diameter _____ in.

Depth _____ ft.

PLUGGING MATERIAL:

☐ Cement/Bentonite Slurry☐ Neat Cement☐ Bentonite Slurry☐ Concrete Grout☐ Bentonite Chips

No. of Bags _____

Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

Home owner to abandoned old well

17. DRILLING MACHINE OPERATOR:

☐ Employee ☐ Subcontractor

Name, Don

3. OWNER OF WELL

Address

Tel Ewald
110 Henrietta
Munith, MIAddress Same as Well Location ☐ Yes ☐ No

4. WELL DEPTH:

186 ft.

Date Completed

1-26-95

☐ New Well☒ Replacement Well5. ☐ Cable Tool☒ Rotary☐ Driven☐ Dug☐ Hollow Rod☐ Auger/Bored☐ Jetted☐ Other

6. USE:

☒ Household☐ Type I Public☐ Type III Public☐ Irrigation☐ Type IIa Public☐ Heat Pump☐ Test Well☐ Type IIb Public☐ Other

7. CASING:

☐ Steel☐ Threaded

Height: Above/Below

☒ Plastic☐ Welded

Surface: 1 ft

☐ Other

Diameter: 5 in. to 11 1/2 ft. depth

Weight: _____ lbs./ft.

_____ in. to _____ ft. depth

BORE HOLE:

Diameter: 2 7/8 in. to 11 1/2 ft. depth

☐ Drive Shoe

_____ in. to _____ ft. depth

☐ Shale Packer

8. SCREEN:

☒ Not Installed☐ Gravel-Packed

Type _____

Diameter _____

Slot/Gauze _____

Length: _____

Set Between _____ ft. and _____ ft.

FITTINGS:

☐ K-Packer☐ Brenner Check☐ Blank Above Screen

ft. Other _____

9. STATIC WATER LEVEL:

50 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

80 ft. After 1 hrs. Pumping at 20 G.P.M.

☐ Plunger☐ Bailer☐ Air☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter☒ 12" Above Grade☐ Basement Offset☐ Well House

12. WELL GROUTED?

☐ No☒ Yes

From 0 to 11 1/2 ft.

☐ Neat Cement☒ Bentonite☐ Other _____

No. of Bags 5

Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type Tank

Distance 65 ft.

Direction N

Type _____

Distance _____ ft.

Direction _____

14. PUMP:

☐ Not Installed☐ Pump Installation Only

Manufacturer's Name Myers

Model Number _____

HP 1/2

Volts 230

Length of Drop Pipe 100 ft.

Capacity 10 G.P.M.

TYPE:

☒ Submersible☐ Jet☐ Other _____

PRESSURE TANK:

Manufacturer's Name A-O Smith

Model Number V-60

Capacity _____

Gallons _____

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

M.W. Carmel & Sons Inc.

REGISTERED BUSINESS NAME

REGISTRATION NO. 0819

Address 5077 N Meridian Wmston

Signed M. Wink Carmel

C.H.

AUTHORIZED REPRESENTATIVE

Date 1-30-95

GEOLOGICAL SURVEY COPY

Authority: Act 368 PA 1973

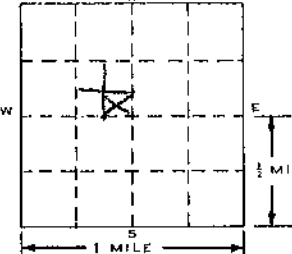
Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

WATER WELL AND PUMP RECORD

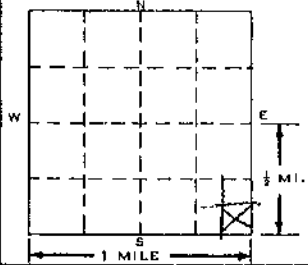
PERMIT NUMBER

W 2217

1 LOCATION OF WELL		3 OWNER OF WELL: <u>Donald Craft</u>	
County <u>Jackson</u>	Township Name <u>Hemlock</u>	Fraction <u>SE 1/4 NW 1/4</u>	Section Number <u>13</u>
Distance And Direction From Road Intersection <u>Roberts Dr</u>		Town Number <u>1 N 5</u>	
Street Address & City of Well Location		Range Number <u>16 W</u>	
Locate with "X" in Section Below		Address <u>517 1/2 Center</u>	
Sketch Map: 		Address Same As Well Location? ☐ Yes ☒ No	
		4 WELL DEPTH: Date Completed <u>10/10/89</u> ☒ New Well	
		<u>156</u> FT. ☐ Replacement Well	
		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug	
		☐ Hollow rod ☐ Auger ☐ Jetted ☐	
		6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public	
		☐ Irrigation ☐ Type IIa Public ☐ Heat pump	
		☐ Test Well ☐ Type IIb Public ☐	
		7 CASING: Diameter ☐ Steel ☐ Threaded Height: Above/Below	
		☒ Plastic ☐ Welded Surface <u>1</u> ft.	
		<u>5</u> in. to <u>101</u> ft. depth Weight <u> </u> lbs./ft.	
		Grouted Drill Hole Diameter <u>2 1/8</u> in. to <u>104</u> ft. depth	
		Drive Shoe ☐ Yes ☒ No	
2 FORMATION DESCRIPTION		8 SCREEN: ☒ Not Installed	
	THICKNESS OF STRATUM	Type <u> </u> Diameter <u> </u>	
	DEPTH TO BOTTOM OF STRATUM	Slot/Gauze <u> </u> Length <u> </u>	
<u>Brown Sand Clay + Gravel</u>	<u>18</u>	Set between <u> </u> ft. and <u> </u> ft.	
<u>Brown Sand + Gravel + Stone</u>	<u>60</u>	FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Brainer Check	
<u>Gray Clay + Stones</u>	<u>8</u>	☐ Blank above screen <u> </u> ft. Other <u> </u>	
<u>Gray Clay Black Shale</u>	<u>14</u>	9 STATIC WATER LEVEL: <u>30</u> ft. below land surface ☐ Flow	
<u>Brown + White Limestone</u>	<u>38</u>	10 PUMPING LEVEL: below land surface	
<u>Brown Limestone + Gravel</u>	<u>18</u>	<u>148</u> ft. after <u>1</u> hrs. pumping at <u>50</u> G.P.M.	
<u>Sandstone Gray Shale</u>	<u>18</u>	<u> </u> ft. after <u> </u> hrs. pumping at <u> </u> G.P.M.	
		11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade	
		☐ Basement offset ☐ Approved pit	
		12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft.	
		☐ Neat cement ☐ Bentonite ☐ Other <u>Asph/Flt</u>	
		No. of bags of cement <u>4</u> Additives <u> </u>	
		13 Nearest source of possible contamination	
		Type <u>Septic</u> Distance <u>75</u> ft. Direction <u>SE</u>	
		Well disinfected upon completion? ☒ Yes ☐ No	
		Was old well plugged? ☐ Yes ☐ No	
		14 PUMP: ☐ Not Installed ☒ Pump Installation Only	
		Manufacturer's name <u>Grundfos</u>	
		Model number <u> </u> HP <u>1/2</u> Volts <u>220</u>	
		Length of Drop Pipe <u>100</u> ft. capacity <u>10</u> G.P.M.	
		TYPE: ☒ Submersible ☐ Jet	
		PRESSURE TANK: <u>Well & Tank</u>	
		Manufacturer's name <u> </u>	
		Model number <u>202</u> Capacity <u>30</u> Gallons	
15. Remarks, elevation, source of data, etc.		16. WATER WELL CONTRACTOR'S CERTIFICATION:	
		This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.	
		<u>M. W. Connolly & Sons, Inc.</u> 0819	
		REGISTERED BUSINESS NAME REGISTRATION NO.	
		Address <u>3022 N. Michigan St. Winston</u>	
		Signed <u>Carlynn Hawley</u> Date <u>10/89</u>	
		AUTHORIZED REPRESENTATIVE	

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL		3 OWNER OF WELL: <u>Donald Patrick</u>																			
County <u>Jackson</u>	Township Name <u>Berriette</u>	Fraction <u>SE 1/4 SE 1/4</u>	Section Number <u>13</u>																		
Distance And Direction From Road Intersection <u>Croon Hill Rd.</u>		Town Number <u>1</u>																			
Street Address & City of Well Location		Range Number <u>10E</u>																			
Locate with "X" in Section Below		Address <u>10875 East Territorial Rd</u>																			
Sketch Map: 		Address Same As Well Location? ☐ Yes ☐ No																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:40%;">2 FORMATION DESCRIPTION</th> <th style="width:10%;">THICKNESS OF STRATUM</th> <th style="width:10%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> <tr> <td><u>Sand & Gravel</u></td> <td><u>32</u></td> <td><u>32</u></td> </tr> <tr> <td><u>Grey Clay</u></td> <td><u>50</u></td> <td><u>82</u></td> </tr> <tr> <td><u>Sand</u></td> <td><u>20</u></td> <td><u>102</u></td> </tr> <tr> <td><u>Grey Clay & Stones</u></td> <td><u>30</u></td> <td><u>132</u></td> </tr> <tr> <td><u>Shale & White Sand Rock</u></td> <td><u>50</u></td> <td><u>182</u></td> </tr> </table>		2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<u>Sand & Gravel</u>	<u>32</u>	<u>32</u>	<u>Grey Clay</u>	<u>50</u>	<u>82</u>	<u>Sand</u>	<u>20</u>	<u>102</u>	<u>Grey Clay & Stones</u>	<u>30</u>	<u>132</u>	<u>Shale & White Sand Rock</u>	<u>50</u>	<u>182</u>	4 WELL DEPTH: (completed) <u>182</u> ft.	
		2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																	
		<u>Sand & Gravel</u>	<u>32</u>	<u>32</u>																	
		<u>Grey Clay</u>	<u>50</u>	<u>82</u>																	
		<u>Sand</u>	<u>20</u>	<u>102</u>																	
<u>Grey Clay & Stones</u>	<u>30</u>	<u>132</u>																			
<u>Shale & White Sand Rock</u>	<u>50</u>	<u>182</u>																			
Date of Completion <u>10-31-88</u>																					
6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public																					
7 CASING: Diameter ☐ Steel ☐ Threaded ☐ Plastic ☐ Welded <u>1 1/2</u> in. to <u>1 1/2</u> ft. depth Ground Drill Hole Diameter <u>7/8</u> in. to <u>1 1/2</u> ft. depth																					
Height: Above/Below Surface <u>1</u> ft. Weight _____ lbs./ft. Drive Shoe ☐ Yes ☒ No																					
8 SCREEN: ☒ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____																					
9 STATIC WATER LEVEL: <u>35</u> ft. below land surface ☐ Flow																					
10 PUMPING LEVEL: below land surface <u>182</u> ft. after <u>1</u> hrs. pumping at <u>60</u> G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.																					
11 WELL HEAD COMPLETION: ☒ Pitless adapter ☒ 12" above grade ☐ Basement offset ☐ Approved pit																					
12 WELL GROUTED? ☐ No ☒ Yes From <u>0</u> to <u>25</u> ft. ☐ Neat cement ☐ Bentonite ☒ Other <u>Hole Plug</u> No. of bags of cement <u>4</u> Additives _____																					
13 Nearest source of possible contamination Type <u>Not In</u> Distance _____ ft. Direction _____ Well disinfected upon completion? ☒ Yes ☐ No																					
14 PUMP: ☐ Not Installed ☐ Pump Installation Only Manufacturer's name <u>Red Jacket</u> Model number _____ HP <u>1/2</u> Volts <u>220</u> Length of Drop Pipe <u>60</u> ft. capacity <u>10</u> G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: <u>ETIOL</u> Manufacturer's name _____ Model number <u>202</u> Capacity <u>30</u> Gallons																					
15. Remarks, elevation, source of data, etc.																					
16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>M.W. Cornell & Sons, Inc. - D&F</u> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <u>5077 E. Meridian, Williamston</u> Signed <u>Sheryl White</u> Date <u>11-2-88</u> AUTHORIZED REPRESENTATIVE																					

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
DEC 21 1989BUREAU OF ENVIRONMENTAL AND
OCCUPATIONAL HEALTH-SWOS

JUL 3 1984

WATER WELL AND PUMP RECORD

PERMIT NUMBER

PART 127 ACT 388, P.A. 1978

1 LOCATION OF WELL		County Jackson		Township Name Henrietta		Fraction SW 1/4 NE 1/4 NE 1/4		Section Number 13		Town Number T1S N/S		Range Number R1E E/W			
Distance And Direction From Road Intersection 300' W Hill & Seventh St.				Address Dwayne Wild 106 Seventh St Munith, MI 49259				Address Same As Well Location? ☒ Yes ☐ No							
106 Seventh St				Date of Completion 5/10/82				WELL DEPTH: (completed) 150 ft							
Street Address & City of Well Location				5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug				6 USE ☒ Domestic ☐ Type I Public ☐ Type III Public							
Locate with "X" in Section Below				6 ☐ Irrigation ☐ Type IIa Public ☐ Heat pump				7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded							
Sketch Map				8 ☐ Hollow rod ☐ Auger ☐ Jotted ☐				Height Above/Below Surface 1 ft							
M-106				9 ☐ Test Well ☐ Type IIb Public ☐				Weight 2 lbs./ft.							
Hill				10 ☐ Blank above screen ☐ ft Other				Drive Shoe ☒ Yes ☐ No							
Seventh				11 ☐ Not Installed				Type _____ Diameter _____							
1 MILE				12 ☐ Not Installed				Slot/Gauge _____ Length _____							
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM				DEPTH TO BOTTOM OF STRATUM				Set between _____ ft. and _____ ft.			
Brown clay				9				9				FITTINGS ☐ X Packer ☐ Lead Packer ☐ Bromer Check			
Fine Sand				9				18				☐ Blank above screen _____ ft Other			
Gray shale				5				23				9 STATIC WATER LEVEL: 15 ft. below land surface ☐ Flow			
Gray-gravelly shale				5				28				10 PUMPING LEVEL: below land surface			
Fine shaley sand				6				34				63 ft after 2 hrs pumping at 20 G.P.M.			
Grey shale				5				39				_____ ft after _____ hrs pumping at _____ G.P.M.			
Fine grey shaley sand				25				64				11 WELL HEAD COMPLETION: ☐ Pitless adaptor ☒ 12" above grade			
Gray sand				1				65				☐ Basement offset ☐ Approved pit			
Gray shale				26				91				12 WELL GROUTED? ☐ No ☒ Yes From 0 to 100 ft			
Gray sand				1				92				☐ Neat cement ☒ Bentonite ☐ Other			
Gray shale				4				96				No. of bags of cement 2 Additives			
Black shale rock				12				108				13 Nearest source of possible contamination			
Gray shale rock				4				112				Type s tank Distance 60 ft Direction N			
Gray limestone				16				128				Well disinfected upon completion? ☒ Yes ☐ No			
Blue Shale rock				2				130				14 PUMP ☒ Not Installed ☐ Pump Installation Only			
Gray limestone				3				133				Manufacturer's name _____			
Brown limestone				17				150				Model number _____ HP _____ Volts _____			
USE A 2ND SHEET IF NEEDED												Length of Drop Pipe _____ ft capacity _____ G.P.M.			
15. Remarks, elevation, source of data, etc.				16. WATER WELL CONTRACTOR'S CERTIFICATION:								TYPE ☐ Submersible ☐ Jet			
ADDED INFO BY DRILLER, ITEM NO.				This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.								PRESSURE TANK:			
*CORRECTED BY				Boley Well Drilling, Inc.				1517				Manufacturer's name _____			
**ADDITION BY				REGISTERED BUSINESS NAME				REGISTRATION NO.				Model number _____ Capacity _____ Gallons			
ELEVATION				Address 6587 Sneezy Lk Rd., Brooklyn, MI 49230											
DEPTH TO ROCK				Signed C. J. Boley, Inc.				Date 5/10/82							

DEC 18 1979

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		3 OWNER OF WELL:	
County Jackson	Township Name Henrietta	Fraction 1/4 1/4 1/4	Section Number 13
		Town Number T15	Range Number R1E
Distance And Direction from Road Intersections 350' South of M-106 5/10 mile East of Fitchburg Rd.		Address Ron Ousley 8305 Plum Orchard Munith, Michigan 49259	
Street address & City of Well Location 8365 Plum Orchard		4 WELL DEPTH: (completed) Date of Completion 177 ft. 11-26-79	
Locate with "X" in section below Sketch Map:		5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐	
		6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐	
		7 CASING: Threaded ☒ Welded ☐ Diam. _____ Height: Above/ Surface Surface 9" 4 in. to 107'7" Depth Weight 11 lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes ☒ No ☐	
2 FORMATION		8 SCREEN:	
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____
Sandy clay	11	11	
Brown clay	4	15	
Sand	22	37	
Gravel with clay strips	18	55	9 STATIC WATER LEVEL 15 ft. below land surface
Sand, gravel and stones	24	79	10 PUMPING LEVEL below land surface 60 ft. after _____ hrs. pumping 25 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.
Clay and gravel	15	94	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____
Sand and gravel	3	97	12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade
Black shale	12	109	13 Well Grouted ☒ Yes ☐ No ☐ Neat Cement ☒ Bentonite ☐ Depth: From _____ ft. to _____ ft.
White shale	5	114	14 Nearest Source of possible contamination _____ foot _____ Direction _____ Type Well disinfected upon completion ☒ Yes ☐ No
Green shale	3	117	15 PUMP: ☒ Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ Jet ☐ Reciprocating
Lime	29	146	
Black shale and lime	6	152	
Sandstone	9	161	
Lime	4	165	
Sandstone	22	177	
USE A 2ND SHEET IF NEEDED			
16 Remarks, elevation, source of data, etc. permit #7021 ADDED INFO BY DRILLER, ITEM NO. *CORRECTED BY **ADDITION BY ELEVATION DEPTH TO ROCK		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Hart Well Drilling Company 522 REGISTERED BUSINESS NAME REGISTRATION NO. Address 1154 S. Jefferson, Mason, Michigan 48854 Signed <i>S.W. Hart</i> Date 11-29-79 AUTHORIZED REPRESENTATIVE	

MAR 05 1981

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

County Jackson Township Name Henrietta Fraction NE 1/4 NE 1/4 Section Number 13 Town Number T1 Range Number R2

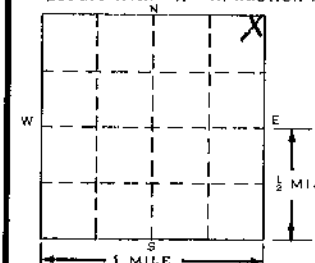
Distance And Direction from Road Intersections

N.E. corner of Henrietta + 6th st

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



HENRIETTA

X 6th

2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

CLAY & STONES

9

9

GRAVEL

6

15

CLAY & GRAVEL

33

48

FINE SAND, DIRTY

28

76

GRAVEL

7

83

CLAY

10

93

CLAY & SANDSTONE & GRAVEL

6

99

CLAY & COAL

3

102

LIMESTONE, SOFT

12

114

CLAY SANDSTONE GREEN

2

116

LIMESTONE

6

122

CLAY

2

124

SANDSTONE & CLAY

33

157

LIMESTONE

1

158

SANDSTONE

7

165

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

JACKSON COUNTY HEALTH DEPT.

PERMIT #

7776

ADDED INFO BY DRILLER, (I AM NOT)

CORRECTED BY

ADDITION BY

ELEVATION

986.6 - 996.5

DEPTH TO ROCK

D67d

100M (Rev. 12-68)

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BEAR WELL DRILLING CO. 38-1529

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 4600 S. SOUTH ST. JACKSON, MI.

Signed William M. M. M.

Date 2/27/81

AUTHORIZED REPRESENTATIVE

FEB 00 1978

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County Jackson		Township Name Henritetta		Fraction NE 1/4 NE 1/4 NW 1/4		Section Number 13		Town Number 1-2 N/S.		Range Number 1 E/W.	
Distance And Direction from Road Intersections 1/2 Mile East of Fitchburg rd. on south side of rd.													
Street address & City of Well Location Plum Orchard rd. Munith, Michigan													
Locate with "X" in section below													
Sketch Map:													
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		3 OWNER OF WELL:					
Clay, stones and gravel				99		99		Joe Jarrell Address: 208 W. Seventh St Box 76 Munith, Michigan					
White sand and gravel				16		115		4 WELL DEPTH: (completed) Date of Completion					
Lime rock white				24		139		186 ft. 10/21/77					
Shale				21		160		5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug					
Sandrock gray				26		186		☐ Hollow rod ☐ Jetted ☐ Bored ☐					
								6 USE: ☒ Domestic ☐ Public Supply ☐ Industry					
								☐ Irrigation ☐ Air Conditioning ☐ Commercial					
								7 CASING: Threaded ☒ Welded ☐ Height: Above/Below					
								4 in. to 11 1/2 ft. Depth Surface 1 ft.					
								Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐					
								8 SCREEN:					
								Type: _____ Dia.: _____					
								Slot/Gauze _____ Length _____					
								Set between _____ ft. and _____ ft.					
								Fittings: _____					
								9 STATIC WATER LEVEL					
								25 ft. below land surface					
								10 PUMPING LEVEL below land surface					
								35 ft. after 2 hrs. pumping 17 g.p.m.					
								_____ ft. after _____ hrs. pumping _____ g.p.m.					
								11 WATER QUALITY in Parts Per Million:					
								Iron (Fe) _____ Chlorides (Cl) _____					
								Hardness _____ Other _____					
								12 WELL HEAD COMPLETION: ☐ In Approved Pit					
								☒ Pitless Adapter ☐ 12" Above Grade					
								13 Well Grouted? ☐ Yes ☒ No					
								☐ Neat Cement ☐ Bentonite ☐ _____					
								Depth: From _____ ft. to _____ ft.					
								14 Nearest Source of possible contamination					
								_____ foot _____ Direction _____ Type _____					
								Well disinfected upon completion ☒ Yes ☐ No					
								15 PUMP: ☐ Not installed					
								Manufacturer's Name Reda					
								Model Number 9D9P051 HP 1/2 Volts 230					
								Length of Drop Pipe 42 ft. capacity 10 G.P.M.					
								Type: ☒ Submersible ☐ Jet ☐ Reciprocating					
16 Remarks, elevation, source of data, etc.				17 WATER WELL CONTRACTOR'S CERTIFICATION:									
Well Permit #5341 CORRECTED BY ADDITION BY <i>att</i> ELEVATION DEPTH TO ROCK USE A 2ND SHEET IF NEEDED				This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R.M. Brewer & Son Inc. 106 REGISTERED BUSINESS NAME REGISTRATION NO.									
				Address Parma, Michigan 49269									
				Signed <i>Renneth Brewer</i> Date 11/28/77 AUTHORIZED REPRESENTATIVE									

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		Fraction		Section No.	Town	Range
County	Twp.	NE 1/4		13	1 N.S.	1 E.
Jackson	Henrietta					
Distance And Direction from Road Intersections 2/10 MI S of M106, 4 /10 MI W of Musbach Rd., Munith, Michigan				OWNER No. _____		
Street address & City of Well Location 150 Henrietta St., Munith				3 OWNER OF WELL: Wolfgang Uhl Address 150 Henrietta St., Munith, Michigan		
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion			
Clay & gravel	5	5	216 ft. 7/25/69			
brown clay	7	12	5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ _____			
clay & gravel	6	18	6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ _____			
sandy clay	44	65	7 CASING: Threading ☒ Welded ☐ Height: Above XXXX Diam. 4 in. to 134 ft. Depth surface 1 ft. Weight 11 lbs/ft. _____ in. to _____ ft. Depth Drive Shoe? Yes ☐ No ☐			
grey clay & gravel	29	94	8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____			
black shale	1	95	9 STATIC WATER LEVEL _____ ft. below land surface			
clay & gravel	31	126	10 PUMPING LEVEL below land surface _____ ft. after 1 hrs. pumping 15 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.			
shale & lime	7	133	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____			
green shale	2	135	12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade			
lime & shale	15	150	13 GROUTING: Well Grouted? ☒ Yes ☐ No Material: ☐ Neat Cement ☒ Bentonite Depth: From _____ ft. to _____ ft.			
sandstone	8	158	14 SANITARY: Nearest Source of possible contamination _____ feet _____ Direction _____ Type Well disinfected upon completion ☒ Yes ☐ No			
lime	6	164	15 PUMP: Manufacturer's Name Red Jacket Model Number H30H1-788 HP 1/2 Length of Drop Pipe 42 ft. capacity 10 G.P.M. Type: ☐ Submersible ☐ _____ ☒ Jet ☐ Reciprocating			
sandstone	31	215				
lime	1	216				
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.			
elevation 219.19'			HART WELL DRILLING CO. REGISTRATION NO. 522			
Address 1143 S. Jefferson St., Mason, Michigan			Signed _____ Date 8/24/69			
			AUTHORIZED REPRESENTATIVE			

PART 127 ACT 368, P.A. 1978

1 Rev 10-80)

APR 26 1973

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

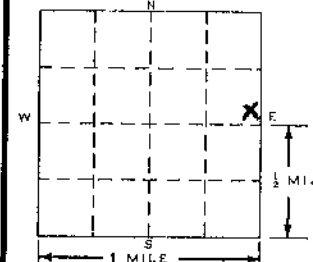
1 LOCATION OF WELL

County Jackson Township Name Henrietta Fraction SE 1/4 NE 1/4 Section Number 13 Town Number T.14N. Range Number R.1E

Distance And Direction from Road Intersections

300 ft. N. of Waterloo - Munnith on w.
side of Main St.
504 S. Main St.
Street address & City of Well Location Munnith, Mich

Locate with "X" in section below



Sketch Map:

M-106
St. Munnith
Waterloo - Munnith Rd.

2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUMDARK GRAVEL6363FINE WATERY SAND1073

3 OWNER OF WELL:

Address

RICHARD SWITZER
504 S. MAIN ST
MUNNITH, MICH

4 WELL DEPTH: (completed) Date of Completion

73 ft. 10/4/71

5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☒ Welded ☐ Height: Above/Below
Diam. Surface 1 ft.

4 in. to 63 ft. Depth Weight 11 lbs./ft.
in. to ft. Depth Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: RED BRASS Dia.: 4

Slot/Gauze 12/10000 Length 8

Set between 65 ft. and 73 ft.

Fittings: 3' of 3" riser

9 STATIC WATER LEVEL

30 ft. below land surface

10 PUMPING LEVEL below land surface

32 ft. after 1 hrs. pumping 16 g.p.m.

ft. after hrs. pumping g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) Chlorides (Cl)

Hardness Other

12 WELL HEAD COMPLETION:

☐ In Approved Pit
☐ Pitless Adapter ☒ 12" Above Grade

13 Well Grouted? ☐ Yes ☒ No

☐ Neat Cement ☐ Bentonite ☐

Depth: From ft. to ft.

14 Nearest Source of possible contamination

54 feet E Direction Drain Field Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☒ Not installed

Manufacturer's Name

Model Number HP Volts

Length of Drop Pipe ft. capacity G.P.M.

Type: ☐ Submersible

☐ Jet

☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

Well Permit # 1081

ADDED INFO. BY DRILLER 11/11/71

CORRECTED 11/11/71

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

PM BREWER & SON INC 106

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address PARMA, MICH

Signed Douglas L. Brewer Date 12-9-71

AUTHORIZED REPRESENTATIVE

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

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1 LOCATION OF WELL			3 OWNER OF WELL:		
County JACKSON	Twp. HENRIETTA	Fraction SWSE 1/4 NE 1/4	Section No. 13	Town 1 N 5	Range 10 W
Distance And Direction from Road Intersections 1/2 MILE WEST OF HILL RD ON MAIN ST. 200' NORTH OF MOUTH WATER LUD RD Street address & City of Well Location			Address 16325 SEYMOUR RD GRASS LAKE, MICH 49240		
2 FORMATION			4 WELL DEPTH: (completed) Date of Completion		
THICKNESS OF STRATUM			ft. 12-11-67		
DEPTH TO BOTTOM OF STRATUM					
BROWN TO RED CLAY	10	10	5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug		
GRAVEL	5	15	☐ Hollow rod ☐ Jetted ☐ Bored ☐		
BROWN SAND	15	30	6 USE: ☒ Domestic ☐ Public Supply ☐ Industry		
GREY SAND	60	90	☐ Irrigation ☐ Air Conditioning ☐ Commercial		
GREY GRAVEL	9	99	☐ Test Well ☐		
			7 CASING: Threaded ☒ Welded ☐ Height: Above/Below surface 1 ft.		
			Diam. 3 in. to 96 ft. Depth		
			Weight 770 lbs./ft.		
			Drive Shoe? Yes ☒ No ☐		
			8 SCREEN:		
			Type: STAINLESS Dia.: 2"		
			Slot/Gauge 10 Length 3'		
			Set between 96 ft. and 99 ft.		
			Fittings: 3 1/2' - 2" pipe & K PACKER		
			9 STATIC WATER LEVEL		
			20 ft. below land surface		
			10 PUMPING LEVEL below land surface		
			36 ft. after 1 hrs. pumping 10 g.p.m.		
			ft. after _____ hrs. pumping _____ g.p.m.		
			11 WATER QUALITY in Parts Per Million:		
			Iron (Fe) _____ Chlorides (Cl) _____		
			Hardness _____		
			12 WELL HEAD COMPLETION ☐ In Approved Pit		
			☐ Pitless Adapter ☐ 12" Above Grade		
			13 GROUTING:		
			Well Grouted? ☐ Yes ☒ No		
			Material: ☐ Neat Cement ☐		
			Depth: From _____ ft. to _____ ft.		
			14 SANITARY:		
			Nearest Source of possible contamination		
			75 feet W Direction Septic Type		
			Well disinfected upon completion ☒ Yes ☐ No		
			15 PUMP:		
			Manufacturer's Name _____		
			Model Number _____ HP _____		
			Length of Prop Pipe _____ ft. capacity _____ G.P.M.		
			Type: ☐ Submersible ☐		
			☐ Jet ☐ Reciprocating		
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. CORRECTED BY: ADDITION BY: ELP-2935			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Hartwell Drilling 572 REGISTERED BUSINESS NAME REGISTRATION NO. Address Wagon, Mich Signed W. Hart Date 12-27-67 AUTHORIZED REPRESENTATIVE		

JAN 29 1968

GEOLOGICAL SURVEY COPY

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		TOWNSHIP NAME		SECTION NUMBER		TOWN NUMBER		RANGE NUMBER	
County JACKSON		TOWNSHIP NAME HENRIETTA		SECTION NUMBER 13		TOWN NUMBER 10		RANGE NUMBER 1	
Distance And Direction from Road Intersections ON Corner Monroe & Seventh NE DOWNTOWN MUNITH									
Street Address & City of Well Location MUNITH, MICHIGAN 49259									
Locality with "X" in section below				Sketch Map:					
				3 OWNER OF WELL: RITA BROESAMIE Address 110 7th Street MUNITH, MICHIGAN 49259					
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		4 WELL DEPTH: (completed) Date of Completion	
SAND & CLAY				70		70		73 ft. 4-27-70	
GRAVEL & CLAY				3		73		5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐	
								6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☒ PERMIT # 0148	
								7 CASING: Threaded ☒ Welded ☐ Height: Above/below Diam. 4 in. to 7 1/2 ft. Depth 11 lbs./ft. Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐	
								8 SCREEN: Type: RED BRASS Dia.: 4" Slot/Gauze 30/1000 Length 4' Set between 69 ft. and 73 ft. Fittings: 4' & 3" Riser & Clpg.	
								9 STATIC WATER LEVEL 15 ft. below land surface	
								10 PUMPING LEVEL below land surface 15 ft. after 2 hrs. pumping 11 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.	
								11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____	
								12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade	
								13 Well Grouted? ☐ Yes ☒ No ☐ Neat Cement ☐ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.	
								14 Nearest Source of possible contamination _____ foot _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No	
								15 PUMP: ☒ Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ Jot ☐ Reciprocating	
16 Remarks, elevation, source of data, etc. ADDITIONAL INFO. BY DRILLER, ITEM NO. _____ CORRECTED BY: _____ ADDITION BY: _____				17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R.M. Brewer Son 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address 215 HARRINGTON RD. Signed Michael Sage Date 6-10-70 AUTHORIZED REPRESENTATIVE					

1 LOCATION OF WELL		Township Name		Fraction		Section Number		Town Number		Range Number	
County Jackson		Henrietta		1/4		13		1		1	
Distance And Direction From Road Intersection 2nd street west of Main on Roberts Dr.				3 OWNER OF WELL: Walter Chalender Address Munith, Mi.							
Street Address & City of Well Location				Address Same As Well Location? ☐ Yes ☐ No							
Locate with "X" in Section Below				Sketch Map:				4 WELL DEPTH: (completed) 160 ft. Date of Completion 5-12-87			
				5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug				6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public			
				☐ Hollow rod ☐ Auger ☐ Jetted							
				7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded				Height: Above/Below Surface 1 ft. Weight _____ lbs./ft. Drive Shoe ☒ Yes ☐ No			
				5 in. to 110 ft. depth Grouted Drill Hole Diameter _____ in. to _____ ft. depth _____ in. to _____ ft. depth							
2 FORMATION DESCRIPTION		THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		8 SCREEN: ☐ Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen _____ ft. Other _____					
Sand		15		15		9 STATIC WATER LEVEL: _____ 30 ft. below land surface ☐ Flow 10 PUMPING LEVEL: below land surface _____ 160 ft. after 1 hrs. pumping at 20 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.					
Clay		50		65							
Sand		85		70							
Clay		15		85							
Shale		30		115							
						11 WELL HEAD COMPLETION: ☐ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit					
						12 WELL GROUTED? ☐ No ☒ Yes From _____ to _____ ft. ☐ Noat cement ☒ Bentonite ☐ Other _____ No. of bags of cement _____ Additives _____					
						13 Nearest source of possible contamination Type _____ Distance _____ ft. Direction _____ Well disinfected upon completion? ☒ Yes ☐ No					
						14 PUMP: ☐ Not installed ☐ Pump Installation Only Manufacturer's name Red Jacket Model number _____ HP 1/2 Volts 230 Length of Drop Pipe 65 ft. capacity 10 G.P.M. TYPE: ☒ Submersible ☐ Jet PRESSURE TANK: Manufacturer's name Aqua Air Model number _____ Capacity 20 Gallons					
15. Remarks, elevation, source of data, etc.				16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. LIT Wall Drilling 1072 REGISTERED BUSINESS NAME REGISTRATION NO. Address R#2 Charlotte, Mi. Signed Rayd Cordy Date 5-31-87 AUTHORIZED REPRESENTATIVE							

JUN 23 1972

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL			3 OWNER OF WELL:	
County Jackson	Twp. Henrietta	Fraction NW 1/4 SE 1/4 NE 1/4	Section No. 13	Town 1 N/S. / E 1/2 E 1/2
Distance And Direction from Road Intersections 2 1/10ths mile west of Coon Hill Road Street address & City of Well Location 3/10ths mile south of M-106			OWNER No. _____ Address Bob Bechtol 209 W. Seventh St. Munith, Michigan 49259	
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) 82 ft. Date of Completion 4/29/72	
clay	12	12	5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐	
sand	6	18	6 USE ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐	
grey clay	19	37	7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 77 ft. Depth 19 ft. Height: Above/Below surface 0 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐	
sand	39	76	8 SCREEN: Type: stainless steel Dia.: 4" Slot/Gauze 18 Length 4' Set between 73 ft. and 77 ft. Fittings: K packer -overall length 7'6"	
gravel	6	82	9 STATIC WATER LEVEL _____ ft. below land surface	
			10 PUMPING LEVEL below land surface 30 ft. after 1 hrs. pumping 25 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.	
			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____	
			12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade	
			13 GROUTING: Well Grouted? ☐ Yes ☒ No Material: ☐ Neat Cement ☐ _____ Depth: From _____ ft. to _____ ft.	
			14 SANITARY: Nearest Source of possible contamination 50 feet SW Direction Septic Type Well disinfected upon completion ☒ Yes ☐ No	
			15 PUMP: Manufacturer's Name not installed Model Number _____ HP Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ _____ ☐ Jet ☐ Reciprocating	
16 Remarks, elevation, source of data, etc. Suttons Platt ADDED INFO. BY DRILLER, IFA CORRECTED BY: <i>[Signature]</i> * ADDITION BY <i>[Signature]</i>			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. HART WELL DRILLING CO. 522 REGISTERED BUSINESS NAME REGISTRATION NO. Address 1154 S. Jefferson St., Mason, Michigan Signed <i>[Signature]</i> Date 5/20/72 AUTHORIZED REPRESENTATIVE	

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WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

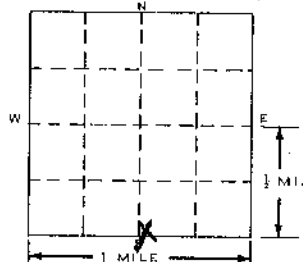
County Jackson	Township Name Henrietta	Fraction SE 1/4 SE 1/4 SW 1/4	Section Number 13	Town Number T13	Range Number R1E
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Distance And Direction from Road Intersections
1/2 mi W Coon Hill & Kennedy Roads
9442 Kennedy Road

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



Coon Hill Rd
Kennedy

2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM**Brown sand and clay****15****15****Brown-gray sand****21****36****Brown clay and sand****1****37**

3 OWNER OF WELL:

Arthur Wright

Address **9442 Kennedy Road**
Munith, Michigan 49259

4 WELL DEPTH: (completed) Date of Completion

37 ft. **8/3/78**

5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☒ Welded ☐
 Diam. **4** in. to **36** ft. Depth
 Surface **1** ft.

Weight **11** lbs./ft.Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: **stainless** Dia.: **4"**Slot/Gauze _____ Length **4'**Set between **34** ft. and **36** ft.Fittings: **plug, seal and riser**

9 STATIC WATER LEVEL

15 ft. below land surface

10 PUMPING LEVEL below land surface

30 ft. after **16** hrs. pumping **10** g.p.m.

_____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) _____ Chlorides (Cl) _____

Hardness _____ Other _____

12 WELL HEAD COMPLETION:

☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade13 Well Grouted? ☐ Yes ☒ No☐ Neat Cement ☐ Bentonite ☐

Depth: From _____ ft. to _____ ft.

14 Nearest Source of possible contamination

50 feet _____ Direction **a tank** TypeWell disinfected upon completion ☐ Yes ☐ No

15 PUMP:

☐ Not installedManufacturer's Name **Aermotor**Model Number **A53D** HP **1/2** Volts **115**Length of Drop Pipe **30** ft. capacity **12** G.P.M.Type: ☒ Submersible☐ Jet☐ Reciprocating

16 Remarks, elevation, source of data, etc.

Permit #6178

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true
 to the best of my knowledge and belief.

Fox Brothers Drillers, Inc.

REGISTERED BUSINESS NAME

REGISTRATION NO. **167**Address **6655 Brooklyn Rd., Jackson, Michigan 49201**Signed *Melville*

AUTHORIZED REPRESENTATIVE

Date **8/8/78**

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ACT 294 PA 1965

X

D67d 100M (Rev. 12-68)

FEB 16 1977

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

County Jackson	Township Name Henrietta	Fraction NE 1/4 SE 1/4 NE 1/4	Section Number 13	Town Number 1-2 N/S.	Range Number 1 E.
--------------------------	-----------------------------------	---	-----------------------------	--------------------------------	-----------------------------

Distance And Direction from Road Intersections

In Village of

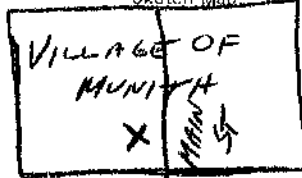
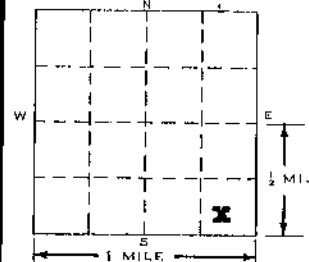
Munith, Michigan.

Street address & City of Well Location

Same

Locate with "X" in section below

Sketch Map:

COON HILL RD
INTO VILLAGE
CHANGES TO MAIN ST

2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Sand & Clay

15

15

Sand

8

23

Clay

7

30

Water sand

23

53

3 OWNER OF WELL:

Address
Lois LaVergne
408 S. Main
Munith, Michigan

4 WELL DEPTH: (completed) Date of Completion

53 ft. **5/5/76**

5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐

7 CASING: Threaded ☒ Welded ☐ Diam.

Height: Above/Below
Surface **1** ft.

42 in. to **42** ft. Depth Weight **11** lbs./ft.

in. to ft. Depth Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: **Red Brass** Dia.: **4"**

Slot **10** Length **8'**

Set between **41** ft. and **53** ft.

Fittings:
3' of 3" riser

9 STATIC WATER LEVEL

19' ft. below land surface

10 PUMPING LEVEL below land surface

20' ft. after **1 1/2** hrs. pumping **20** g.p.m.

ft. after hrs. pumping g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) Chlorides (Cl)

Hardness Other

12 WELL HEAD COMPLETION:

☐ In Approved Pit

☒ Pitless Adapter ☐ 12" Above Grade

13 Well Grouted? ☐ Yes ☒ No

☐ Neat Cement ☐ Bentonite ☐

Depth: From ft. to ft.

14 Nearest Source of possible contamination

50 feet **W** Direction **Septic** Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installed

Manufacturer's Name **Reda**

Model Number **9B9P051** HP **1/2** Volts **230**

Length of Drop Pipe **32** ft. capacity **10** g.p.m.

Type: ☒ Submersible

☐ Jet

☐ Reciprocating

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

Well Permit #4544

elevation 1020

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

R.M. Brewer & Son Inc.

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REGISTERED BUSINESS NAME

REGISTRATION NO.

Address **Parma, Michigan** **49269**

Signature **Kenneth Brewer**

AUTHORIZED REPRESENTATIVE

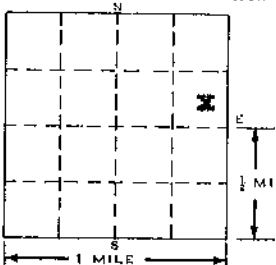
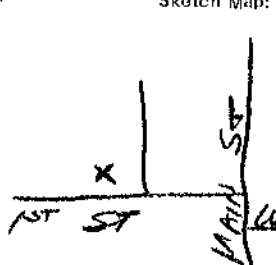
Date **10/29/76**

FEB 12 1979

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County Jackson		Township Name Henrietta		Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$		Section Number 13		Town Number 1-X		Range Number 1 E/4	
Distance And Direction from Road Intersections 1/10th Mile West of Main St. on north side of rd. in village of Munith.						3 OWNER OF WELL: Mrs. Cavender 215 First St Munith, Mich. 49259							
Street address & City of Well Location Same						4 WELL DEPTH: (completed) Date of Completion 83 ft. 12/21/78							
Locate with "X" in section below 						5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐							
Sketch Map: 						6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐							
2 FORMATION						THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		7 CASING: Threaded ☒ Welded ☐ Diam. 4 in. to 76 ft. Depth			
										Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes ☒ No ☐			
Brown sand						40		40		8 SCREEN: Type: Stainless Steel & Brass Dia.: 4" Slot/Gauge 12 Length 8' Set between 76 ft. and 83 ft. Fittings: 3' of 3" riser			
Brown sand (water & maddy)						36		76		9 STATIC WATER LEVEL 33 ft. below land surface			
Water sand and gravel						0		83		10 PUMPING LEVEL below land surface 34 ft. after 3 hrs. pumping 15 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.			
										11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____			
										12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adaptor ☐ 12" Above Grade			
										13 Well Grouted? ☐ Yes ☒ No ☐ Neat Cement ☐ Bentonite ☐ Depth: From _____ ft. to _____ ft.			
										14 Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No			
										15 PUMP: ☐ Not installed Manufacturer's Name Webtrol Model Number 102558b HP 1/2 Volts 230 Length of Drop Pipe 40 ft. capacity 10 G.P.M. Type: ☒ Submersible ☐ Jet ☐ Reciprocating			
ADDED INFO BY DRILLER, ITEM NO.										17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R.M. Brewer & Son Inc. 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address Parma, Michigan 49269 Signed Kenneth Brewer Date 12/29/78 AUTHORIZED REPRESENTATIVE			
*CORRECTED BY													
**ADDITION BY													
ELEVATION													
DEPTH TO ROCK													
16 Remarks, elevation, source of data, etc. Well Permit #6549													

FEB 16 1977

WATER WELL RECORD
ACT 294 PA 1965MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

County **Jackson**

Township Name

Henrietta

Fraction

 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

Section Number

13

Town Number

1-2 N/S.

Range Number

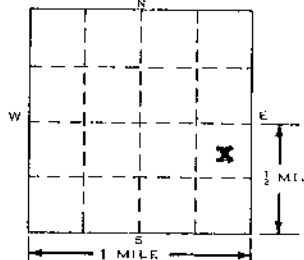
1 E20.Distance And Direction from Road Intersections **I** village of **Munith.**

Street address & City of Well Location

**10777 Roberts
Munith, Michigan.**

Locate with "X" in section below

Sketch Map:



2 FORMATION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

Sandy clay

10**10**

Blue clay

15**25**

Sand

23**48**

3 OWNER OF WELL:

Address

**R&W Myers Construction Co. inc.
680 Fitchberg Rd
Stockbridge, Mich. 49285**

4 WELL DEPTH: (completed) Date of Completion

48 ft. **10/14/76**5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug
☐ Hollow rod ☐ Jetted ☐ Bored ☐6 USE: ☒ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☐7 CASING: Threaded ☒ Welded ☐ Height: Above ☐ BelowDiam. **4** in. to **44** ft. Depth Surface **1** ft.Weight **11** lbs./ft.Drive Shoe? Yes ☒ No ☐

8 SCREEN:

Type: **Red Brass** Dia.: **4"**Slot/Screen **12** Length **48"**Set between **44** ft. and **48** ft.Fittings:
3' of 3" riser

9 STATIC WATER LEVEL

10 ft. below land surface

10 PUMPING LEVEL below land surface

11 ft. after **1** hrs. pumping **20** g.p.m.

ft. after hrs. pumping g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) Chlorides (Cl)

Hardness Other

12 WELL HEAD COMPLETION: ☐ In Approved Pit☒ Pitless Adapter ☐ 12" Above Grade13 Well Grouted? ☐ Yes ☒ No☐ Neat Cement ☐ Bentonite ☐

Depth: From ft. to ft.

14 Nearest Source of possible contamination

ft. Direction Type

Well disinfected upon completion ☒ Yes ☐ No

15 PUMP:

☐ Not installedManufacturer's Name **McDonald**Model Number HP $\frac{1}{2}$ Volts **230**Length of Drop Pipe **21** ft. capacity **10** G.P.M.Type: ☒ Submersible☐ Jet☐ Reciprocating

16 Remarks, elevation, source of data, etc.

Well Permit #4587

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

R.M. Brewer & Son Inc.**106**

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address **Parma, Michigan 49269**Signed **Kenneth Brewer** Date **1/6/77**
AUTHORIZED REPRESENTATIVE

WATER WELL RECORD

ACT 294 PA 1965

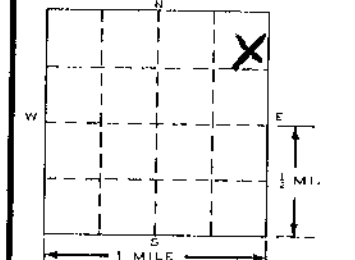
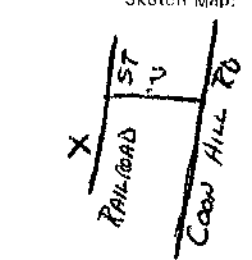
MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL																		
County Jackson			Twp. Henrietta			Fraction NE 1/4 SE 1/4 NE 1/4			Section No. 13			Town 1 S.			Range 1 E.			
Distance And Direction from Road Intersections On S. Side of 7th Street in Village of Munith, Mich Street address & City of Well Location 311 7th St. Munith, Mich																		
3 OWNER OF WELL: Max Roepke Address 311 7th Street Munith, Mich 49259 OWNER No. _____																		
2 FORMATION			THICKNESS OF STRATUM			DEPTH TO BOTTOM OF STRATUM			4 WELL DEPTH: (completed) 64 ft. Date of Completion 9/11/69									
Clay & Gravel			15			15			5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ _____									
Gravel-med-fine			2			17			6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ _____									
Clay-blue			39			56			7 CASING: Diam. Threaded ☒ Welded ☐ Height: Above/Grow surface 1 ft. 4 in. to 61 ft. Depth Weight 11 lbs/ft. _____ in. to _____ ft. Depth Drive Shoes? Yes ☒ No ☐									
Gravel-muddy-water bearing			8			64			8 SCREEN: Type: Red Brass Dia.: 4" Slot/Gauze 30/1000 Length 4' lg Set between 60 ft. and 64 ft. Fittings: 3' of 3" Riser w/3" clpg.									
									9 STATIC WATER LEVEL _____ ft. below land surface									
									10 PUMPING LEVEL below land surface _____ ft. after 2 hrs. pumping 20 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.									
									11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____									
									12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade									
									13 GROUTING: Well Grouted? ☐ Yes ☒ No Material: ☐ Neat Cement ☐ _____ Depth: From 64 ft. to _____ ft.									
									14 SANITARY: Nearest Source of possible contamination 55 feet S Direction Drain Field Well disinfected upon completion ☒ Yes ☐ No									
									15 PUMP: Manufacturer's Name Reda Model Number 7D18P071 HP 1/4 Length of Drop Pipe 21 ft. capacity 25 G.P.M. Type: ☒ Submersible ☐ _____ ☐ Jet ☐ Reciprocating									
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER, ITEM NO. *CORRECTED BY: **ADDITION BY:																		
17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R M Brewer & Son Inc 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address 245 Harrington Rd Parma, Mich Signed <i>Douglas R. Brewer</i> Date 6-9-70 AUTHORIZED REPRESENTATIVE																		

APR 30 1974

WATER WELL RECORD

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		TOWNSHIP NAME		FRACTION		SECTION NUMBER		TOWN NUMBER		RANGE NUMBER	
County JACKSON		HENRIETTA		NE 1/4		13		1-2		EA	
Distance And Direction from Road Intersections											
Street address & City of Well Location 114 RAILROAD ST MUNITH, MICH.				3 OWNER OF WELL: Fred Ford C/O Farmer State Bank Munith, Michigan							
Locate with "X" in section below				4 WELL DEPTH: (completed) Date of Completion 60 ft. 3/8/73							
				5 ☒ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored							
Sketch Map: 				6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well							
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		7 CASING: Threaded ☒ Welded ☐ Diam. _____ Height: Above/Below Surface 1 ft. 4 in. to 52 1/2 ft. Depth Weight 11 lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes ☒ No ☐			
Clay				40		40		8 SCREEN: Type: Red Brass Dia.: 4" Slot/Gauze 12 Length 8' Set between 52 ft. and 60 ft. Fittings: 3' of 3" riser			
Sandy clay				10		50		9 STATIC WATER LEVEL 10 ft. below land surface			
Muddy brown sand w/ floating coal				60		60		10 PUMPING LEVEL below land surface 11 ft. after 2 hrs. pumping 17 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.			
								11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____			
								12 WELL HEAD COMPLETION: ☐ In Approved Pit ☐ Pitless Adapter ☒ 12" Above Grade			
								13 Well Grouted? ☐ Yes ☒ No ☐ Neat Cement ☐ Bentonite ☐ _____ Depth: From _____ ft. to _____ ft.			
								14 Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____ Well disinfected upon completion ☒ Yes ☐ No			
								15 PUMP: ☒ Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: ☐ Submersible ☐ Jet ☐ Reciprocating			
ADDED INFO BY DRILLER, ITEM NO. *CORRECTED BY **ADDITION BY ELEVATION DEPTH TO ROCK USE A 2ND SHEET IF NEEDED								16 Remarks, elevation, source of data, etc. Well Permit # 2256			
								17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. R.M. Brewer & Son Inc. 106 REGISTERED BUSINESS NAME REGISTRATION NO. Address Parma, Michigan 49269 Signed William J. Steward Date 3/31/73			