

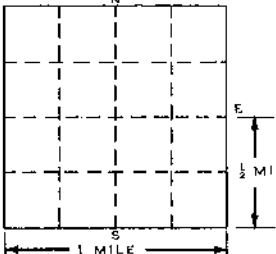
#182



APR 12 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		3 OWNER OF WELL:																			
County Kent	Township Name Sparta	Fraction NE 1/4 NE 1/4	Section Number 19																		
Distance And Direction from Road Intersections 1/2 Mile West of Fruit Ridge Ave		Town Number 9 N.E.																			
Street address & City of Well Location 4094-13 Mile Rd., Sparta		Range Number 12 E/W.																			
Locate with "X" in section below 		Date of Completion 5-8-76																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">2 FORMATION</th> <th style="width: 15%;">THICKNESS OF STRATUM</th> <th style="width: 15%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> <tr> <td>Clay</td> <td>18</td> <td>18</td> </tr> <tr> <td>Sand</td> <td>1</td> <td>19</td> </tr> <tr> <td>Clay + Gravel</td> <td>339</td> <td>358</td> </tr> <tr> <td>Sandstone + Limestone ^{Red}</td> <td>18</td> <td>376</td> </tr> <tr> <td>Shale</td> <td>-</td> <td>-</td> </tr> </table>		2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Clay	18	18	Sand	1	19	Clay + Gravel	339	358	Sandstone + Limestone ^{Red}	18	376	Shale	-	-	4 WELL DEPTH: (completed) 375 ft. 5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jotted <input type="checkbox"/> Bored	
		2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																	
		Clay	18	18																	
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Shale	-	-																			
6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well		7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																			
8 SCREEN: Type: None Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____		9 STATIC WATER LEVEL _____ ft. below land surface 10 PUMPING LEVEL below land surface 200 ft. after 8 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: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade																			
13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> _____ Depth: From _____ ft. to _____ ft.		14 Nearest Source of possible contamination 50 feet N Direction _____ Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			
15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name Goulds Model Number 13EM HP 1 Volts 230 Length of Drop Pipe 210 ft. capacity 12 G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		16 Remarks, elevation, source of data, etc. ADDED INFO BY DRILLER, ITEM NO: *CORRECTED BY SP **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. Webber Wall Drilling 0312 REGISTERED BUSINESS NAME REGISTRATION NO. Address 12831 Long Lake Dr, Sparta Signed Richard E. Webber Date 2-1-77 AUTHORIZED REPRESENTATIVE																					

USE A 2ND SHEET IF NEEDED

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		3 OWNER OF WELL:																	
County Kent	Township Name Sparta	Fraction NE 1/4 NE 1/4 NE 1/4	Section Number 19																
Distance And Direction from Road Intersections Corner of Fruit Ridge and 13 Mile Rd. South-west		Town Number 9 N/2																	
Street address & City of Well Location 10771 Fruit Ridge		Range Number 12 E/W.																	
Locate with "X" in section below		Date of Completion 1984																	
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px; text-align: center;">X</td><td style="width: 25px; height: 25px;"></td></tr> <tr><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td></tr> <tr><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td></tr> <tr><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td><td style="width: 25px; height: 25px;"></td></tr> </table> </div> <div style="text-align: center;"> <p>Sketch Map:</p> </div> </div>				X														4 WELL DEPTH: (completed) _____ ft. 5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jotted <input type="checkbox"/> Bored <input type="checkbox"/>	
		X																	
2 FORMATION		6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry																	
THICKNESS OF STRATUM		<input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial																	
DEPTH TO BOTTOM OF STRATUM		<input type="checkbox"/> Test Well																	
Clay		7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above xxx Surface 1 ft.																	
199		4 in. to 206 ft. Depth																	
12		211 ft. Depth																	
		Weight 11 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	
		8 SCREEN:																	
		Type: Stainless Dia.: 4"																	
		Slot/ xxx 10 Length 5'																	
		Set between 206 ft. and 211 ft.																	
		Fittings: K Packer																	
		9 STATIC WATER LEVEL																	
		75 ft. below land surface																	
		10 PUMPING LEVEL below land surface																	
		90 ft. after 1 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: <input type="checkbox"/> In Approved Pit																	
		<input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade																	
		13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																	
		<input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> _____																	
		Depth: From _____ ft. to _____ ft.																	
		14 Nearest Source of possible contamination																	
		100 feet N. Direction Septic Type																	
		Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	
		15 PUMP: <input type="checkbox"/> Not installed																	
		Manufacturer's Name Grundfos																	
		Model Number SP2 HP 1/2 Volts 220																	
		Length of Drop Pipe 126 ft. capacity 15 G.P.M.																	
		Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jot <input type="checkbox"/> Reciprocating																	
16 Remarks, elevation, source of data, etc.		17 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.																	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>SEP 14 1984</p> <p>KENT COUNTY HEALTH DEPT.</p> </div> <div style="text-align: center;"> <p>RECEIVED</p> <p>Mich. Dept. of Public Health</p> <p>OCT 4 1984</p> <p>Bureau of Environmental and Occupational Health - GWOS</p> </div> </div>		<p>Wagner Water Wells 1674</p> <p>REGISTERED BUSINESS NAME REGISTRATION NO.</p> <p>Address 2095 Truman Ave., Conklin 49403</p> <p>Signed <i>[Signature]</i> Date 9/11/84</p> <p>AUTHORIZED REPRESENTATIVE</p>																	

RECEIVED

RECEIVED

1 LOCATION OF WELL		
County KENT	Township Name SPARTA	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ Section Number 19 Town Number T9N19S Range Number R2E1W
Distance And Direction From Road Intersection 10033 KENOWIA N.W.		
Street Address & City of Well Location 10033 KENOWIA N.W. SPARTA MICH		
Locate with "X" in Section Below		
Sketch Map:		
2 FORMATION DESCRIPTION		THICKNESS OF STRATUM
		DEPTH TO BOTTOM OF STRATUM
<i>Clay</i>		<i>25' 25'</i>
<i>Serp Sand</i>		<i>15' 40'</i>
<i>Clay</i>		<i>100' 140'</i>
<i>Coarse gravel</i>		<i>150' 290'</i>
<i>Grey sand</i>		<i>5' 295'</i>
<i>Water sand</i>		<i>20' 315'</i>
<i>Gas in water</i>		
3 OWNER OF WELL: DALE MAY Address 10033 KENOWIA N.W. SPARTA MICH Address Same As Well Location? <input type="checkbox"/> Yes <input type="checkbox"/> No		
4 WELL DEPTH: 315 FT. Date Completed: 7 7 89 <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement Well		
6 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Augor <input type="checkbox"/> Jetted <input type="checkbox"/>		
8 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
7 CASING: Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded 4 in. to 304 ft. depth Grouted Drill Hole Diameter _____ in. to _____ ft. depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
8 SCREEN: <input type="checkbox"/> Not Installed Type JOHNSON Diameter 4" Slot/Gauge #7 Length 11" Set between 304 ft. and 315 ft. FITTINGS: <input checked="" type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Brenner Check <input type="checkbox"/> Blank above screen _____ ft. Other _____		
9 STATIC WATER LEVEL: 128 ft. below land surface <input type="checkbox"/> Flow		
10 PUMPING LEVEL: below land surface _____ ft. after _____ G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.		
11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
12 WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From _____ to _____ ft. <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____		
13 Nearest source of possible contamination Type SEPTIC Distance 75 ft. Direction SE Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input type="checkbox"/> Yes <input type="checkbox"/> No		
14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name BURK Model number 15SN14C HP 1 1/2 Volts 220 Length of Drop Pipe 168 ft. capacity 15 G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: WELL X TROL Manufacturer's name _____ Model number WX-250 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. 4499 Westlawn Blvd. S.W. REGISTERED BUSINESS NAME REGISTRATION NO. Address 4499 Westlawn Blvd. S.W. Signed Don Wahlfisch Date 7-10-89 AUTHORIZED REPRESENTATIVE		

USE A 2ND SHEET IF NEEDED

RECEIVED
 MICHIGAN DEPARTMENT OF PUBLIC HEALTH
 DIVISION OF ENVIRONMENTAL AND
 OCCUPATIONAL HEALTH - GWCS
 JUL 28 1989

1 LOCATION OF WELL
 County: KENT Township Name: SPARTA Fraction: 1/4 Section Number: 19 Town Number: T 2 N Range Number: R 12 W

Distance And Direction From Road Intersection: 10696 KENOWA

Street Address & City of Well Location: _____

Locate with "X" in Section Below

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Hard Clay</u>	<u>35'</u>	<u>35'</u>
<u>Clay Sand Mix</u>	<u>20'</u>	<u>55'</u>
<u>Coarse Water Sand</u>	<u>10'</u>	<u>65'</u>

3 OWNER OF WELL:
ROLLAND DEWINTER
 Address: 10696 KENOWA
SPARTA, MICH
 Address Same As Well Location? Yes No

4 WELL DEPTH: (completed) 65 ft. Date of Completion: 21 JULY 88

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 FOOD WELL

7 CASING: Steel Threaded Height: Above/Below
 Plastic Welded Surface: 2 ft.
 Diameter: 4 in. to 37 ft. depth Weight: 11 lbs./ft.
 _____ in. to _____ ft. depth
 Grouted Drill Hole Diameter _____
 _____ in. to _____ ft. depth Drive Shoe Yes
 _____ in. to _____ ft. depth No

8 SCREEN: Not Installed
 Type: JOHNSON Diameter: 4"
 Slot/Grate: 5'-15/32"-10 Length: 8'
 Set between 57 ft. and 65 ft.
 FITTINGS: K-Packer Lead Packer Bremer Check
 Blank above screen _____ ft. Other _____

9 STATIC WATER LEVEL: 35 ft. below land surface Flow

10 PUMPING LEVEL: below land surface
UNKNOWN hrs. pumping at _____ G.P.M.
 _____ ft. after _____ hrs. pumping at _____ G.P.M.

11 WELL HEAD COMPLETION: Risless adaptor 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 900'
 Type: IN FIELD Distance: _____ Direction: _____
 Well disinfected upon completion? Yes No

14 PUMP: Not installed Pump Installation Only
 Manufacturer's name: BURK
 Model number: 50SNB100 Volts: 200
 Length of Drop Pipe: 45 ft. capacity: 90 G.P.M.
 TYPE: Submersible Jet _____
 PRESSURE TANK: _____
 Manufacturer's name: OPEN FLO
 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.
Wahlfield Drilling Co. 2995
4449 Westshire MI
 REGISTERED BUSINESS NAME: _____ REGISTRATION NO.: _____
 Address: Comstock
 Signed: Don Wahlfield Date: 8-4-88
 AUTHORIZED REPRESENTATIVE

RECEIVED
 Mich. Dept. of Public Health
 AUG 18 1988
 Bureau of Environmental and Occupational Health - GWOS



WATER WELL RECORD
ACT 294 PA 1985

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL																																											
County Kent		Township Name Sparta		Fraction ¼ ¼ ¼		Section Number 19		Town Number 9 N/S.		Range Number 12 E/W.																																	
Distance And Direction from Road Intersections 70' W. of Fruitridge Rd. - Between 12 Mile & 13 Mile Roads												3 OWNER OF WELL: Mr. Randy Brunsting Address 10433 Fruitridge Rd., N.W., Sparta Michigan 49345																															
Street address & City of Well Location 10433 Fruitridge, Sparta																																											
Locality with "X" in section below				Sketch Map:				4 WELL DEPTH: (completed) Date of Completion 245 ft. Nov. 17, 1983																																			
								5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jotted <input type="checkbox"/> Bored <input type="checkbox"/>																																			
2 FORMATION <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">FORMATION</th> <th style="width: 10%;">THICKNESS OF STRATUM</th> <th style="width: 10%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr><td>Top Soil</td><td>1</td><td>1</td></tr> <tr><td>Sandy Clay</td><td>4</td><td>5</td></tr> <tr><td>Sand</td><td>1</td><td>6</td></tr> <tr><td>Clay & Gravel</td><td>4</td><td>10</td></tr> <tr><td>Gravel</td><td>7</td><td>17</td></tr> <tr><td>Clay & Gravel</td><td>15</td><td>32</td></tr> <tr><td>Clay</td><td>179</td><td>211</td></tr> <tr><td>Sand (dirty)</td><td>7</td><td>218</td></tr> <tr><td>Clay</td><td>17</td><td>235</td></tr> <tr><td>Sand & Gravel</td><td>8</td><td>243</td></tr> <tr><td>Clay</td><td>2</td><td>245</td></tr> </tbody> </table>				FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Top Soil	1	1	Sandy Clay	4	5	Sand	1	6	Clay & Gravel	4	10	Gravel	7	17	Clay & Gravel	15	32	Clay	179	211	Sand (dirty)	7	218	Clay	17	235	Sand & Gravel	8	243	Clay	2	245	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>			
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				7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																							
				8 SCREEN: Type: Stainless St. Dia.: 4" Slot/Gauze 12 Length 5' Set between 239 ft. and 244 ft. Fittings:																																							
				9 STATIC WATER LEVEL 107 ft. below land surface																																							
				10 PUMPING LEVEL below land surface _____ ft. after 4 hrs. pumping 20 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.																																							
				11 WATER QUALITY in Parts Per Million: Iron (Fe) 5 P.P.M. , Chlorides (Cl) _____ Hardness 15 grs. Other _____																																							
				12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade																																							
				13 Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From 0 ft. to 239 ft.																																							
				14 Nearest Source of possible contamination 80 feet W. Direction Septic Tank Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																							
				15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name Aermotor Model Number A 12-100 HP 1 Volts 230 Length of Drop Pipe 175 ft. capacity 18 G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating WX 204 Tank																																							
16 Remarks, elevation, source of data, etc.) Mich. Dept. of Public Health OCT 18 1984 Bureau of Environmental and Occupational Health-GW-3												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. Raymer Company, Inc. 0384 REGISTERED BUSINESS NAME REGISTRATION NO. Address 3301 Three Mile Rd., N.W., Grand Rapids, MI. Signed <i>[Signature]</i> Date Jan. 18, 1984 AUTHORIZED REPRESENTATIVE																															

RECEIVED

OCT 5 1984
KENT COUNTY
WATER DIVISION

12-10-98 dm

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:

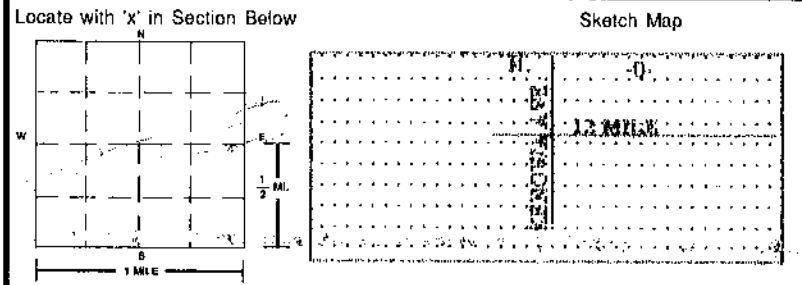
1. LOCATION OF WELL
 County: **WENT**

Township Name: **Sparta** Fraction: **1/4 1/4 1/4** Section No.: **10** Town No.: **081** Range No.: **12W**

Distance and Direction from Road Intersection
150' N. OF 12 MILE - 350' E. OF KENOWA.

Street Address & City of Well Location: **4725 12 MILE SPARTA**

3. OWNER OF WELL
 Address: **VANMULLEN, DAN**
4725 12 MILE
SPARTA MI
 Address Same as Well Location Yes No



4. WELL DEPTH: **345** ft. Date Completed: **1/15/98**
 New Well Replacement Well

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
TOPSOIL	1	3
BROWN CLAY	6	7
GRAY CLAY	93	100
RED CLAY	232	332
SAND	8	340
GRAVEL	5	345

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
 Cased
 Height: Above/Below Surface: **1** ft.
 Diameter: **5** in. to **330** ft. depth Weight: **2.8** lbs./ft.
 BORE HOLE: Diameter: **6** in. to **340** ft. depth
4 3/4 in. to **345** ft. depth
 Drive Shoe Shale Packer

8. SCREEN: Not Installed Gravel-Packed
 Type: **PVC & S.S.** Diameter: **5" & 3"**
 Slowly **12** Length: **10-4'**
 Set Between **330-340** ft. and **340-345** ft.
 FITTINGS: K-Packer Bremer Check
 Blank Above Screen **2** ft. Other:

9. STATIC WATER LEVEL: **110** ft. Below Land Surface Flowing

10. PUMPING LEVEL: Below Land Surface
 ft. After **4** 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 **20** to **0** ft.
 Neat Cement Bentonite Other
 No. of Bags Additives: **QUICK GROUT**

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
 Type: **SEPTIC** Distance: **60'** Direction: **S.E.**
 Type: Distance: ft. Direction:

15. ABANDONED WELL PLUGGED? Yes No
 Casing Diameter **4** in. Depth _____ ft.
 PLUGGING MATERIAL: Neat Cement Bentonite Slurry
 Cement/Bentonite Slurry Concrete Grout Bentonite Chips
 No. of Bags: **26** Casing Removed? Yes No

14. PUMP: Not Installed Pump Installation Only
 Manufacturer's Name: **NOT INSTALLED Goulds**
 Model Number: **10LS-10413** HP **1** Volts: **230**
 Length of Drop Pipe: **189** ft. Capacity: **10** G.P.M.
 TYPE: Submersible Jet Other
 PRESSURE TANK: Manufacturer's Name: **Used Existing Tank**
 Model Number Capacity: **Gallons**

16. REMARKS: (Elevation, Source of Data, etc.)
DRILLED FOR HECKSEL BROS. WELL DRILLING.

17. DRILLING MACHINE OPERATOR:
 Employee Subcontractor
 Name: **RAYMER CO** **0384**

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.
M+W Hecksel Bros **70-0337**
 REGISTERED BUSINESS NAME REGISTRATION NO.
 Address: **89-75 Cleveland Nunica**
 Signed: **M+W Hecksel** Date: **11-10-98**
 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

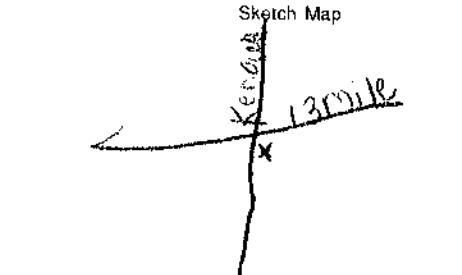
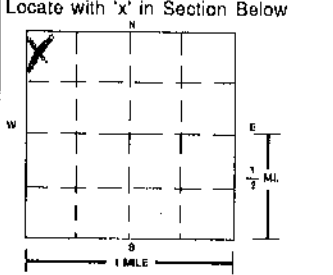
TAX NO:

PERMIT NO:

1. LOCATION OF WELL
 County **Kent**

Township Name **Sparta** Fraction **NW 1/4 NW 1/4 NE 1/4** Section No. **19** Town No. **9W** Range No. **12W**

Distance and Direction from Road Intersection **On the SE corner of 13 Mile Road and Kenowa**



3. OWNER OF WELL **Barry Howe**
 Address **10790 Kenowa Ave., N.W. Sparta, MI 49345**
 Address Same as Well Location Yes No

4. WELL DEPTH: **337** ft. Date Completed **3 / 23 / 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
 Height Above/Below Surface: **1** ft
SDR17 327-267'
SDR21 287-0'
 Diameter: **5** in. to **327** ft. depth
 BORE HOLE: Diameter **3 3/4** in. to **337** ft. depth

8. SCREEN: Not Installed Gravel-Packed
 Type **Plastic** Diameter **3"**
 Slot/Gauze **20** Length: **10'**
 Set Between **327** ft. and **337** ft.
 FITTINGS: K-Packer Bremer Check
 Blank Above Screen Other

9. STATIC WATER LEVEL: **100** ft. Below Land Surface Flowing

10. PUMPING LEVEL: Below Land Surface
 ft. After _____ hrs. Pumping at **15-20** G.P.M.
 Plunger Boiler Air Test Pump

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

12. WELL GROUTED? No Yes From **317** to **0** ft.
 Neat Cement Bentonite Other **Quick Grout**
 No. of Bags **25** Additives _____

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

14. PUMP: Not Installed Pump Installation Only
 Manufacturer's Name **Myers** HP **1/2** Volts **230**
 Model Number _____ Capacity **12** G.P.M.
 Length of Drop Pipe **160** ft. TYPE: Submersible Jet Other
 PRESSURE TANK: Manufacturer's Name **202 Clayton Mark**
 Model Number **202** Capacity **20** Gallons **6.7**

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Red Clay	12	12
Sand	13	25
Red Clay	45	70
Gravel	3	73
Red Clay	157	230
Gray Clay	60	300
Sand	2	302
Hard cap Shale	8	310
Sand Stone	2	312
Hard cap Shale	3	315
Sand Stone	1	316
Black shale	2	318
sand Stone	1	319
Black Shale	3	322
Gray Shale	3	325
Black Sand Stone	12	337

15. ABANDONED WELL PLUGGED? Yes No
 Casing Diameter **2** in. Depth **75** ft.
 PLUGGING MATERIAL: Neat Cement Bentonite Slurry
 Cement/Bentonite Slurry Concrete Grout Bentonite Chips
 No. of Bags **1** Casing Removed? Yes No

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

17. DRILLING MACHINE OPERATOR:
 Employee Subcontractor
 Name **Bill Meoney**

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.
Brass-Mar Water Wells, Inc. 41-1987
 REGISTERED BUSINESS NAME REGISTRATION NO.
 Address **13427 Fruit Ridge, N.W., Kent city, MI 49330**
 Signed **Bob P. Martin (SB)** Date **3/23/99**
 AUTHORIZED REPRESENTATIVE

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		County <u>Kend</u> Twp. <u>Sparta</u>		Fraction <u>SE 1/4 SE 1/4</u>	** <u>NE 1/4</u>	Section No. <u>19</u>	Town <u>9N</u> N/S.	Range <u>12W</u> E/W
Distance And Direction from Road Intersections <u>1000 ft South 13 miles on Sparta Ridge</u>		OWNER No. 		3 OWNER OF WELL: <u>Mrs Chiving Ryder</u>				
Street address & City of Well Location <u>10461 Sparta Ridge Ave Sparta, Mich.</u>				Address <u>10461 Sparta Ridge Ave Sparta, Mich.</u>				
2 FORMATION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) <u>233</u> ft. Date of Completion <u>11-18-66</u>				
<u>0-220 Clay</u>		<u>220'</u>	<u>220'</u>	5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>				
<u>220-225 Clay Gravel</u>		<u>5'</u>	<u>225'</u>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>				
<u>225-233 Water Sand</u>		<u>8'</u>	<u>233'</u>	7 CASING: Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below surface _____ ft. Diam. <u>3</u> in. to <u>229</u> ft. Depth _____ lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
				8 SCREEN: Type: <u>Brass jacket</u> Dia.: <u>2"</u> Slot/Gauze <u>80</u> Length <u>5'</u> Set between <u>229</u> ft. and <u>233</u> ft. Fittings:				
				9 STATIC WATER LEVEL <u>107</u> ft. below land surface				
				10 PUMPING LEVEL below land surface _____ ft. after _____ hrs. pumping _____ 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: <input checked="" type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade				
				13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> _____ Depth: From _____ ft. to _____ ft.				
				14 SANITARY: Nearest Source of possible contamination <u>50</u> feet Direction _____ Type _____ Well disinfected upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No				
				15 PUMP: Manufacturer's Name <u>Myers</u> Model Number <u>V M 150</u> HP <u>1 1/2</u> Length of Drop Pipe <u>147</u> ft. capacity <u>8</u> G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> _____ <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating				
16 Remarks, elevation, source of data, etc. ADDED INFO. BY DRILLER. ITEM NO. _____ *CORRECTED BY: _____ **ADDITION BY: <u>RSS 2/20/67</u>		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>J. M. Kleyman & Sons</u> <u>0493</u> <small>REGISTERED BUSINESS NAME REGISTRATION NO.</small> Address <u>Belmont Mich</u> Signed <u>Arthur J. Kleyman</u> <u>11-23-66</u> <small>AUTHORIZED REPRESENTATIVE</small>						