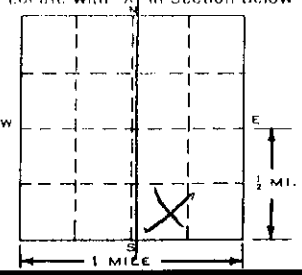
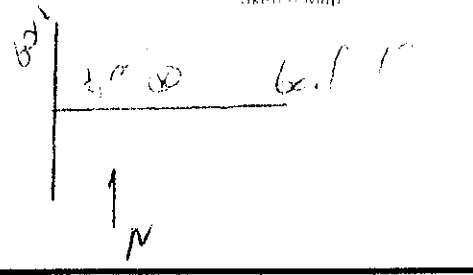


## AOR Water Well Records

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

*Do. 5-26-400-012*

<b>1 LOCATION OF WELL</b> County: <u>OTAWA</u> Township Name: <u>ROCKHILL</u> Fraction: <u>1/4</u> Section Number: <u>26</u> Town Number: <u>8</u> Range Number: <u>14 NW</u>			
Distance and Direction From Road Intersection: _____ Street Address & City of Well Location: _____ Locate with 'X' in Section Below:  Sketch Map: 			
<b>2 FORMATION DESCRIPTION</b> <u>Fine gray deep sand</u> <u>Some light gray</u> <u>fine (shale) sand</u>	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	
<b>3 OWNER OF WELL</b> <u>CLAIFFORD COURTER</u> Address: <u>27-5 POWERS NW</u> Address Same As Well Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>4 WELL DEPTH:</b> <u>20</u> FT. Date Completed: <u>5-15-91</u> <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Re-Completion Well			
<b>5</b> <input type="checkbox"/> Cable <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dig <input type="checkbox"/> Hollow <input type="checkbox"/> Air <input type="checkbox"/> _____ <input checked="" type="checkbox"/> _____			
<b>6 USE:</b> <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"/> _____			
<b>7 CASING:</b> Diameter: <u>2</u> in. to <u>20</u> ft. depth <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded Height: Above/Below Surface: <u>3</u> ft. Weight: _____ lbs./ft. Drive Shoe: <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>8 SCREEN:</b> <input type="checkbox"/> Not Installed Slot/Gauze: _____ Length: <u>4</u> Set between: <u>8</u> ft. and <u>12</u> ft. FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft. Other: _____			
<b>9 STATIC WATER LEVEL:</b> <u>3</u> ft. below land surface <input checked="" type="checkbox"/> Flow			
<b>10 PUMPING LEVEL:</b> _____ ft. after _____ hrs. pumping at _____ G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.			
<b>11 WELL HEAD COMPLETION:</b> <input type="checkbox"/> Pitless adapter <input type="checkbox"/> _____ grade <input type="checkbox"/> Basement offset <input checked="" type="checkbox"/> Approved pit			
<b>12 WELL GROUTED?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft. <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other: _____ No. of bags of cement: _____ Additives: _____			
<b>13 Nearest source of possible contamination</b> Type: <u>S.P.</u> Distance: <u>50</u> ft. Direction: <u>E</u> Well disinfected upon _____? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>14 PUMP:</b> <input type="checkbox"/> Not Installed <input checked="" type="checkbox"/> Pump Installation Only Manufacturer's name: _____ Model number: _____ HP: <u>1</u> Volts: _____ Length of Drop Pipe: _____ ft. Capacity: _____ G.P.M. TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: _____ Manufacturer's name: <u>Dry Well Co S.P.</u> Model number: _____ Capacity: _____ Gallons			
<b>15 Remarks:</b> elevation, source of _____ <u>Owner Re-Install</u> USE A 2ND SHEET IF NEEDED		<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief	
<b>17. Rig Operator's Name:</b> _____		REGISTERED BUSINESS NAME: _____ REGISTRATION NO.: _____ Address: _____ Signed: <u>[Signature]</u> AUTHORIZED REPRESENTATIVE Date: <u>7-11-91</u>	

**RECEIVED**  
Mich. Dept. of Public Health  
NOV 12 1991

BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

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



# Water Well And Pump Record



Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Import ID: 70081426001

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa	<b>Township:</b> Polkton		
<b>Well ID: 70000002136</b>		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 26	<b>Well Status:</b>	<b>WSSN:</b>
		<b>Source ID/Well No:</b>			
<b>Elevation:</b> 641 ft.		<b>Distance and Direction from Road Intersection:</b> 50'E OF 60TH AVE N OF GARFIELD			
<b>Latitude:</b> 43.0486633098		<b>Well Owner:</b> LANGELAND, DALE			
<b>Longitude:</b> -85.9365367859		<b>Well Address:</b> 15384 60th COOPERSVILLE, MI 49404		<b>Owner Address:</b> 15384 60th COOPERSVILLE, MI 49404	
<b>Method of Collection:</b> Interpolation-Map					

<b>Drilling Method:</b> Rotary	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 240.00 ft.	<b>Date Completed:</b> 10/26/1984	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b>	<b>Manufacturer:</b> Aermotor	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> PVC plastic		<b>Model Number:</b>	<b>Pump Capacity:</b> 0 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 70.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
<b>Diameter:</b>		<b>Draw Down Seal Used:</b> No	
<b>Borehole:</b>		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 21.00 ft. Below Grade	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
<b>Well Yield Test:</b> Pumping level 0.00 ft. after 4.00 hrs. at 70 GPM		Clay	78.00	78.00
		Clay & Stones Sandy	26.00	104.00
		Clay	31.00	135.00
		Sand & Gravel	1.00	136.00
		Clay & Gravel	13.00	149.00
		Gypsum	6.00	155.00
		Gypsum W/Shale	5.00	160.00
		Limestone	19.00	179.00
		Sandstone Marshall Ss	61.00	240.00

<b>Screen Installed:</b> No	<b>Intake:</b> Unknown	<b>Geology Remarks:</b>
<b>Well Grouted:</b> Yes	<b>Grouting Method:</b> Unknown	
<b>Grouting Material:</b> Other	<b>Bags:</b> 0.00	
	<b>Additives:</b> None	
	<b>Depth:</b> 0.00 ft. to 0.00 ft.	

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
---	--

<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Unknown
<b>Type:</b> Septic tank	
<b>Distance:</b> 100 ft.	
<b>Direction:</b> East	

<b>Abandoned Well Plugged:</b> No	<b>Contractor Type:</b> Unknown	<b>Reg No:</b> 41-0384
<b>Reason Not Plugged:</b>	<b>Business Name:</b>	
	<b>Business Address:</b>	

<b>Water Well Contractor's Certification</b>	
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b> Grouting Material 1: Listed as other in Wellkey

**MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
WATER WELL AND PUMP RECORD**

**PERMIT NUMBER**

<b>1 LOCATION OF WELL</b>			County <b>Ottawa</b>		Township Name <b>Pokkton</b>		Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$		Section Number <b>26</b>		Town Number <b>8</b> N/S		Range Number <b>14</b> E/W	
Distance And Direction From Road Intersection <b>50' East of 60th Avenue - North of Garfield Rd.</b>			Street Address & City of Well Location <b>15384 60th Ave., Coopersville</b>		OWNER OF WELL: <b>Mr. Dale Langeland</b>		Address <b>15384 60th Avenue, Coopersville, Michigan</b>		Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Date of Completion <b>Oct. 26, 1984</b>			
Locate with "X" in Section Below			Sketch Map:		WELL DEPTH: (completed) <b>240</b> ft.		Date of Completion <b>Oct. 26, 1984</b>		<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"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>					
					6 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 type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Height: Above/Surface <b>1</b> ft. _____ in. to _____ ft. depth _____ in. to _____ ft. depth Grouted Drill Hole Diameter <b>5</b> in. to <b>180</b> ft. depth _____ in. to _____ ft. depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
<b>2 FORMATION DESCRIPTION</b>			THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		<b>8 SCREEN:</b> <input checked="" type="checkbox"/> Not installed		Type _____ Diameter _____		Slot/Gauze _____ Length _____		Set between _____ ft. and _____ ft.	
Clay			78		78		FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft. Other _____		9 STATIC WATER LEVEL: <b>21</b> ft. below land surface <input type="checkbox"/> Flow		10 PUMPING LEVEL: below land surface		_____ ft. after <b>4</b> hrs. pumping at <b>70</b> G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.	
Sandy Clay & Stones			26		104		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 <b>0</b> to <b>180</b> 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 <b>Septic Tank</b> Distance <b>100</b> ft. Direction <b>East</b> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Clay			31		135		14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only		Manufacturer's name <b>Aermotor</b>		Model number <b>A12-75</b> HP <b>3/4</b> Volts <b>200</b>		Length of Drop Pipe <b>70</b> ft. capacity <b>15</b> G.P.M.	
Sand & Gravel			1		136		TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet		PRESSURE TANK: Manufacturer's name <b>Amtrol</b>		Model number <b>WX 203</b> Capacity _____ Gallons			
Clay & Gravel			13		149		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.		<b>Raymer Company, Inc.</b> <b>0384</b> REGISTERED BUSINESS NAME <b>311 Three Mile Rd., N.W., Grand Rapids, MI.</b> REGISTRATION NO. _____ Signed <b>D.F. Newbecker</b> <b>Dec. 3, 1984</b> AUTHORIZED REPRESENTATIVE			
Gypsum			6		155		USE A 2ND SHEET IF NEEDED							
Gyp & Shale			5		160									
Limestone, lost circulation			19		179									
Marshall Sandstone			61		240									

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



# Water Well And Pump Record



Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Import ID: 70081435005

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa	<b>Township:</b> Polkton		
<b>Well ID: 70000002162</b>		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 35	<b>Well Status:</b>	<b>WSSN:</b>
		<b>Source ID/Well No:</b>			
<b>Elevation:</b> 662 ft.		<b>Distance and Direction from Road Intersection:</b> .7MI E OF 68TH AVE & GARFIELD;60'S OF GARFIELD			
<b>Latitude:</b> 43.0450001886		<b>Well Owner:</b> DE MAAGD, DAVE			
<b>Longitude:</b> -85.9432745954		<b>Well Address:</b> 6264 Garfield COOPERSVILLE, MI 49404		<b>Owner Address:</b> 6264 Garfield COOPERSVILLE, MI 49404	
<b>Method of Collection:</b> Interpolation-Map					

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 238.00 ft.	<b>Date Completed:</b> 8/24/1977	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b> 4.00 ft. above grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Unknown		<b>Model Number:</b>	<b>Pump Capacity:</b> 0 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 97.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
<b>Diameter:</b> 4.00 in. to 183.00 ft. depth		<b>Draw Down Seal Used:</b> No	
<b>Borehole:</b>		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 55.00 ft. Below Grade	<b>Well Yield Test:</b> Pumping level 59.00 ft. after 2.00 hrs. at 50 GPM	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
			Topsoil	1.00	1.00
			Yellow Clay	20.00	21.00
			Blue Clay	127.00	148.00
			Gravel & Clay	35.00	183.00
			Limestone & Shale	15.00	198.00
			Light Gray Sandstone	40.00	238.00

<b>Screen Installed:</b> No	<b>Intake:</b> Unknown	<b>Geology Remarks:</b>

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
	<b>Employment:</b> Unknown

<b>Nearest Source of Possible Contamination:</b>	<b>Contractor Type:</b> Unknown	<b>Reg No:</b> 70-0337
<b>Type</b>	<b>Business Name:</b>	
Septic tank	<b>Business Address:</b>	
<b>Distance</b>		
50 ft.		
<b>Direction</b>		
Southwest		

<b>Abandoned Well Plugged:</b> No	<b>Water Well Contractor's Certification</b>	
<b>Reason Not Plugged:</b>	This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
	<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b>

DEC 15 1970

JAN 13 1971

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County: OTTAWA Township Name: POLKTON Fraction: NINE 1/4 NW 4 Section Number: 34 Town Number: 78N N/S. Range Number: R14W.

Distance And Direction from Road Intersections: 1/3 mile east of 68th Ave on south side of Garfield

Street address & City of Well Location: UNKNOWN Starfield Sketch Map:

3 OWNER OF WELL: DAVID G. VEENE MAN Address: 2152 MCKEE S.W. GRAND RAPIDS, MICH

4 WELL DEPTH: (completed) Date of Completion: 247 ft. 5 Oct 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: ~~3~~ Below Surface 3 ft. Weight 7.70 lbs./ft. Drive Shoe? Yes  No

3 in. to 222 ft. Depth Rock ft. Depth

8 SCREEN: Type: ROCK WELL Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_ Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft. Fittings: \_\_\_\_\_

9 STATIC WATER LEVEL: 50 ft. below land surface

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

11 WATER QUALITY in Parts Per Million: Iron (Fe) UNKNOWN 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 SW Direction SEPTIC Type Well disinfected upon completion  Yes  No

15 PUMP:  Not installed Manufacturer's Name: BURKS Model Number: MHV-02 HP 1 Volts 220 Length of Drop Pipe: 87 ft. capacity 8 G.P.M. Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data, etc. CORRECTED 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. Wahfield Drilling Co 0395 REGISTERED BUSINESS NAME REGISTRATION NO. Address: 4449 Westshore Dr NW CP Signed: Dry Wahfield Date: 15 Oct 70 AUTHORIZED REPRESENTATIVE



APR 02 1980

**WATER WELL RECORD**  
ACT 294 PA 1965

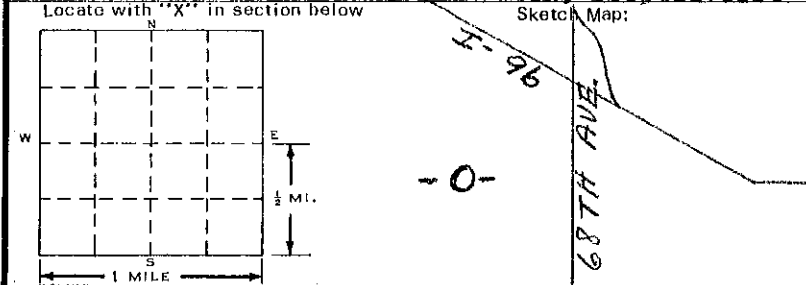
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>1/4 1/4 1/4</b>	Section Number <b>27</b>	Town Number <b>8 N/E.</b>	Range Number <b>14 E/W.</b>

Distance And Direction from Road Intersections  
**230' W. of 68th Avenue**

Street address & City of Well Location **15585 68th, Coopersville**

Locate with "X" in section below



**3 OWNER OF WELL:** **Mr. Edward Hannenburg**  
Address **River Ridge Farms**  
**15585 68th Ave., Coopersville, Michigan**

**4 WELL DEPTH:** (completed) Date of Completion  
**260 ft. May 24, 1979**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well  **Farm**

**7 CASING:** Threaded  Welded  Height: Above/Below Surface **1** ft.  
Diam. \_\_\_\_\_ Weight **11** lbs./ft.  
**4** in. to **205** ft. Depth Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	93	93
Clay & Gravel	4	97
Clay	22	119
Clay & Gravel	74	193
Lime	12	205
Marshall Sandstone	55	260

**8 SCREEN:**  
Type: **NONE** Dia.: \_\_\_\_\_  
Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
Fittings: \_\_\_\_\_

**9 STATIC WATER LEVEL**  
**68** ft. below land surface

**10 PUMPING LEVEL** below land surface  
\_\_\_\_\_ ft. after **4** hrs. pumping **60** g.p.m.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) **1.0** Chlorides (Cl) \_\_\_\_\_  
Hardness **43 grs.** Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From **surface** ft. to **205** ft.

**14 Nearest Source of possible contamination**  
**170** feet **E.** Direction **Septic Tank** Type \_\_\_\_\_  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **Red Jacket**  
Model Number **300T4-11DC** HP **3** Volts **230-3 phase**  
Length of Drop Pipe **130** ft. capacity **35** G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

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.  
**RAYMER COMPANY, INC.** **0384**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **3317 Three Mile Rd., N.W., Grand Rapids, MI.**  
Signed *E. F. ...* Date **7-20-79**  
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.

Import ID: 70081427003

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa	<b>Township:</b> Polkton		
<b>Well ID: 70000002138</b>		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 27	<b>Well Status:</b>	<b>WSSN:</b>
		<b>Source ID/Well No:</b>			
<b>Elevation:</b> 680 ft.		<b>Distance and Direction from Road Intersection:</b> 300'W OF 68TH AVE & GARGIELD;100'N OF GARFIELD			
<b>Latitude:</b> 43.0455128		<b>Well Owner:</b> HANDLOGTEN, GEORGE			
<b>Longitude:</b> -85.9560443017		<b>Well Address:</b> 15220 68TH AVE COOPERSVILLE, MI 49404		<b>Owner Address:</b> 15220 68TH AVE COOPERSVILLE, MI 49404	
<b>Method of Collection:</b> Interpolation-Map					

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 257.00 ft.	<b>Date Completed:</b> 8/13/1980	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b> 0.00 ft. below grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Unknown		<b>Model Number:</b>	<b>Pump Capacity:</b> 0 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 105.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> None		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
<b>Diameter:</b> 4.00 in. to 208.00 ft. depth		<b>Draw Down Seal Used:</b> No	
<b>Borehole:</b>		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 65.00 ft. Below Grade	<b>Well Yield Test:</b> Pumping level 0.00 ft. after 0.00 hrs. at 60 GPM	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
			Black Topsoil	1.00	1.00
			Yellow Clay	11.00	12.00
			Blue Clay	106.00	118.00
			Blue Clay & Gravel	83.00	201.00
			Limestone	20.00	221.00
			Sandstone Marshall Ss	36.00	257.00

<b>Screen Installed:</b> No	<b>Intake:</b> Unknown	<b>Geology Remarks:</b>

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
	<b>Employment:</b> Unknown

<b>Nearest Source of Possible Contamination:</b>	<b>Contractor Type:</b> Unknown	<b>Reg No:</b> 70-0337
<b>Type</b>	<b>Business Name:</b>	
Septic tank	<b>Business Address:</b>	
<b>Distance</b>		
50 ft.		
<b>Direction</b>		
North		

<b>Abandoned Well Plugged:</b> No	<b>Water Well Contractor's Certification</b>	
<b>Reason Not Plugged:</b>	This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
	<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b>



JUN 26 1980

**WATER WELL RECORD**  
ACT 294 PA 1965

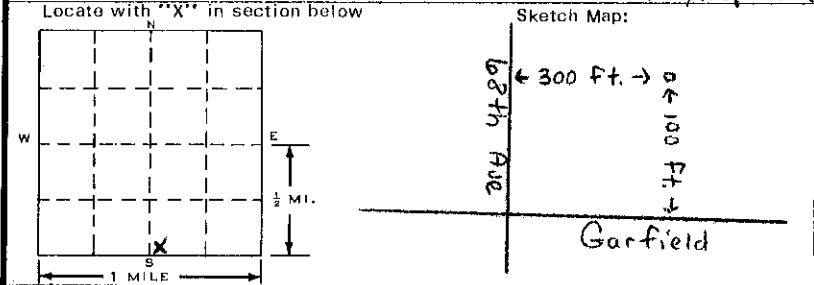
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <u>Ottawa</u>	Township Name <u>Polkton</u>	Fraction <u>SW 1/4 SW 1/4 SE 1/4</u>	Section Number <u>27</u>	Town Number <u>8 N.E.</u>	Range Number <u>14 E.W.</u>

Distance And Direction from Road Intersections  
About 300 ft. east of 68th Ave & Garfield  
Then about 100 ft north of Garfield

Street address & City of Well Location 15220 68th Ave. Coopersville

**3 OWNER OF WELL:**  
Address George Handlogten  
15220 68th Ave.  
Coopersville, Mich.



**4 WELL DEPTH:** (completed) Date of Completion  
255 ft. 5-13-80

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>dirt, black</u>	<u>1</u>	<u>1</u>
<u>clay, yellow</u>	<u>11</u>	<u>12</u>
<u>clay, blue</u>	<u>166</u>	<u>178</u>
<u>clay blue &amp; gravel, mixed</u>	<u>23</u>	<u>(201)</u>
<u>lime rock</u>	<u>20</u>	<u>221</u>
<u>marshall rock</u>	<u>36</u>	<u>257</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/Below Surface \_\_\_\_\_ ft.  
4 in. to 208 ft. Depth Weight \_\_\_\_\_ lbs./ft.  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. Depth Drive Shoe? Yes  No

**8 SCREEN:**  
Type: None Dia.: \_\_\_\_\_  
Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
Fittings: \_\_\_\_\_

**9 STATIC WATER LEVEL**  
65 ft. below land surface

**10 PUMPING LEVEL** below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping 60 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 N. Direction Septic Tank Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name Goulds  
Model Number 10EJ-07412 HP 3/4 Volts 230  
Length of Drop Pipe 105 ft. capacity 12 G.P.M.  
Type:  Submersible  Jet  Reciprocating  
Pump Serial # F069272

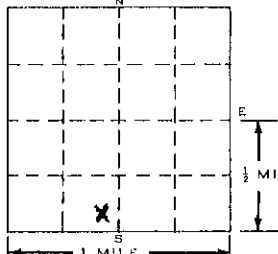
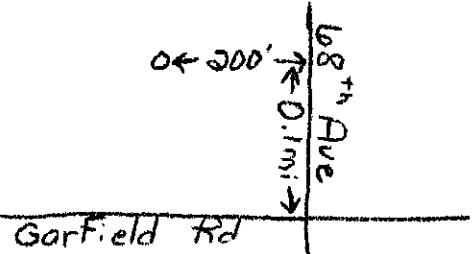
**16 Remarks, elevation, source of data, etc.**  
ADDED BY: \_\_\_\_\_ DRILLER, ITEM NO. \_\_\_\_\_  
\*CORRECTED BY \_\_\_\_\_  
\*\*ADDITION BY \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DEPTH TO ROCK \_\_\_\_\_

**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.  
M & W Hecksel Bros. 70-0337  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 18976 96th Ave. Coopersville, Mi.  
Signed Merle J Hecksel Date 5-29-80  
AUTHORIZED REPRESENTATIVE

DEC 22 1977

**WATER WELL RECORD**  
ACT 294 PA 1965

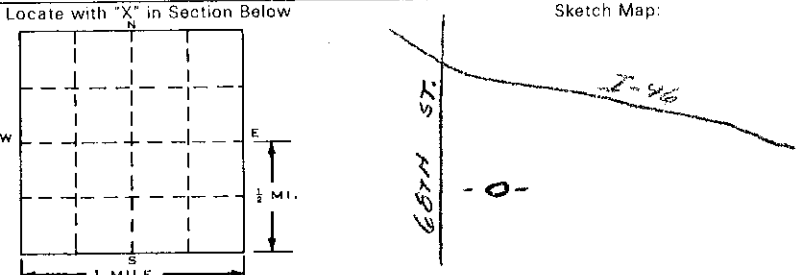
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>											
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>SE 1/4 SE 1/4 SW 1/4</b>	Section Number <b>27</b>	Town Number <b>8 N/S.</b>	Range Number <b>14 E/W.</b>						
Distance And Direction from Road Intersections <b>About 0.1 mi. North of Garfield Rd + 68<sup>th</sup> Ave Then about 200 Ft West of 68<sup>th</sup> Ave 15293 - 68<sup>th</sup> Ave</b>						3 OWNER OF WELL: <b>Gordon Handlogten</b> Address <b>15293 - 68<sup>th</sup> Ave Coopersville Mich</b>					
Street address & City of Well Location <b>15293 - 68<sup>th</sup> Ave Coopersville, Mich</b>						4 WELL DEPTH: (completed) Date of Completion <b>254 ft. 10-26-77</b>					
Locate with "X" in section below 						Sketch Map: 					
<b>2 FORMATION</b>		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM								
<b>Topsoil - Black Loam</b>		<b>1</b>	<b>1</b>								
<b>Clay - Red</b>		<b>18</b>	<b>19</b>								
<b>Clay - Blue</b>		<b>143</b>	<b>162</b>								
<b>Gravel - Dirty</b>		<b>7</b>	<b>169</b>								
<b>Clay - Blue</b>		<b>17</b>	<b>186</b>								
<b>Shale - Blue</b>		<b>15</b>	<b>201</b>								
<b>Lime Rock</b>		<b>20</b>	<b>221</b>								
<b>Sandstone - Med.</b>											
<b>water bearing</b>		<b>33</b>	<b>254</b>								
				5 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface <b>3 1/2</b> ft. Weight <b>10.8</b> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
				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"/>							
				7 SCREEN: Type: <b>None</b> Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____							
				9 STATIC WATER LEVEL <b>67</b> ft. below land surface							
				10 PUMPING LEVEL below land surface _____ ft. after _____ hrs. pumping <b>50</b> 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 <b>90</b> feet <b>N</b> Direction <b>Septic Tank</b> Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
				15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <b>Goulds</b> Model Number <b>13EM-10412</b> HPL Volts <b>230</b> Length of Drop Pipe <b>105</b> ft. capacity <b>15</b> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating							
				<b>Pump Serial # C064810</b>							
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. <b>M.W. Hecksel Bros</b> <b>70-0337</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>18976 - 96<sup>th</sup> Ave Coopersville</b> Signed <b>M. Hecksel</b> Date <b>12-8-77</b> AUTHORIZED REPRESENTATIVE							

**WATER WELL AND PUMP RECORD**

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**PERMIT NUMBER**  
Parcel 70-05-27-400-010

<b>1 LOCATION OF WELL</b>		<b>3 OWNER OF WELL:</b>		
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction 1/4    1/4    1/4	Section Number <b>27</b>	
Distance And Direction From Road Intersection <b>1/4 Mile South of I-96 - 100' East of 68th Street</b>		Town Number <b>8</b>	Range Number <b>14 E/W</b>	
Street Address & City of Well Location <b>15550 68th St., Coopersville</b>		Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locate with "X" in Section Below		<b>3 OWNER OF WELL:</b> <b>Granger Electric</b>		
Sketch Map: 		Address <b>15550 68th Street, Coopersville</b>		
<b>2 FORMATION DESCRIPTION</b>		Date Completed <b>10 28 93</b> <input checked="" type="checkbox"/> New Well		
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<input type="checkbox"/> Replacement Well	
<b>Clay</b>	<b>194</b>	<b>194</b>	<b>4 WELL DEPTH:</b> <b>260 FT.</b>	
<b>Limestone</b>	<b>7</b>	<b>201</b>	<input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug	
<b>Marshall Sandstone</b>	<b>59</b>	<b>260</b>	<input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted	
			<b>6 USE:</b> <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"/>	
			<b>7 CASING:</b> Diameter <input type="checkbox"/> Steel <input type="checkbox"/> Threaded    Height: Above/Below	
			<input checked="" type="checkbox"/> Plastic <input checked="" type="checkbox"/> Welded    Surface <b>1</b> ft.	
			<b>5</b> in. to <b>200</b> ft. depth    Weight <b>2.8</b> lbs./ft.	
			Grouted Drill Hole Diameter	
			<b>8</b> in. to <b>200</b> ft. depth    Drive Shoe <input type="checkbox"/> Yes	
			<input checked="" type="checkbox"/> No	
			<b>8 SCREEN:</b> <input checked="" type="checkbox"/> Not Installed	
			Type _____ Diameter _____	
			Slot/Gauze _____ Length _____	
			Set between _____ ft. and _____ ft.	
			FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bromer Check	
			<input type="checkbox"/> Blank above screen _____ ft.    Other _____	
			<b>9 STATIC WATER LEVEL:</b> _____ ft. below land surface <input type="checkbox"/> Flow	
			<b>10 PUMPING LEVEL:</b> below land surface	
			_____ ft. after <b>4</b> hrs. pumping at <b>60</b> G.P.M.	
			_____ ft. after _____ hrs. pumping at _____ G.P.M.	
			<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade	
			<input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit	
			<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From <b>200</b> to <b>surface</b>	
			<input checked="" type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	
			No. of bags of cement <b>30</b> Additives _____	
			<b>13 Nearest source of possible contamination</b>	
			Type <b>Septic</b> Distance <b>150</b> ft.    Direction <b>North</b>	
			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	
			<b>14 PUMP:</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only	
			Manufacturer's name <b>Grundfos</b>	
			Model number <b>40S30-9</b> HP <b>3</b> Volts <b>460</b>	
			Length of Drop Pipe <b>147</b> ft. capacity <b>40</b> G.P.M.	
			TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet	
			PRESSURE TANK:	
			Manufacturer's name <b>Amtrol</b>	
			Model number <b>WX 350</b> Capacity _____ Gallons	
<b>15. Remarks, elevation, source of data, etc.</b>		<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b>		
		This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
<b>17. Rig Operator's Name:</b>		<b>Raymer Company, Inc.</b> <b>0384</b>		
		REGISTERED BUSINESS NAME    REGISTRATION NO.		
		Address <b>3311 Three Mile Rd., N.W., Grand Rapids</b>		
		Signed <i>[Signature]</i> Date <b>Dec. 8, 1993</b>		
		AUTHORIZED REPRESENTATIVE		

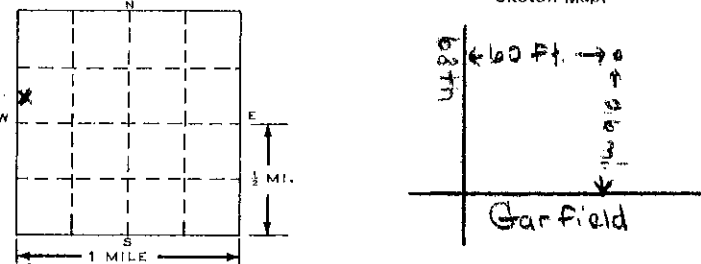
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JAN 13 1981

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>			<b>3 OWNER OF WELL:</b>		
County <u>Ottawa</u>	Township Name <u>Polkton</u>	Fraction <u>SW 1/4 SW 1/4 NW 1/4</u>	Section Number <u>27</u>	Town Number <u>8 N.E.</u>	Range Number <u>14 #W.</u>
Distance And Direction from Road Intersections <u>About 0.6 mi. north of Garfield &amp; 68th</u> <u>Then about 60 ft. east of 68th</u> Street address & City of Well Location <u>15616 68th Ave, Coopersville</u>			Address <u>Hedzer De Jonge</u> <u>15616 68th Ave</u> <u>Coopersville, Mich.</u>		
Locate with "X" in section below 			4 WELL DEPTH: (completed) Date of Completion <u>155</u> ft. <u>10-28-80</u>		
2 FORMATION			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"/>		
			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"/>		
THICKNESS OF STRATUM			7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. _____ Height: <u>Above</u> /Below Surface <u>3 1/2</u> ft. <u>4</u> in. to <u>150</u> ft. Depth Weight <u>10.8</u> lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
DEPTH TO BOTTOM OF STRATUM			8 SCREEN: <u>Johnson Super Water Mark</u> Type: <u>Stainless</u> Dia.: <u>4</u> Slot/Screen <u>12</u> Length <u>5 ft.</u> Set between <u>150</u> ft. and <u>155</u> ft. Fittings: <u>Bottom- 3" x 2" Bushing &amp; 2" Plug</u> <u>Top- 2 ft. Blank &amp; head Packer</u>		
<u>fill sand</u>	<u>3</u>	<u>3</u>	9 STATIC WATER LEVEL <u>54</u> ft. below land surface		
<u>clay, yellow</u>	<u>11</u>	<u>14</u>	10 PUMPING LEVEL below land surface _____ ft. after _____ hrs. pumping <u>50</u> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.		
<u>clay, blue</u>	<u>96</u>	<u>110</u>	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____		
<u>gravel &amp; clay, mixed</u>	<u>17</u>	<u>127</u>	12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade		
<u>clay, blue</u>	<u>18</u>	<u>145</u>	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.		
<u>sand, very coarse</u>			14 Nearest Source of possible contamination <u>60</u> feet <u>East</u> Direction <u>Septic System</u> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<u>water bearing</u>	<u>10</u>	<u>155</u>	15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <u>Goulds</u> Model Number <u>2SEL-10412</u> HP <u>1</u> Volts <u>230</u> Length of Drop Pipe <u>84</u> ft. capacity <u>25</u> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating <u>Pump Serial # G044950</u>		
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRILLER, ITEM NILL *CORRECTED BY _____ **EXPLANATION BY _____ REVISION _____ DATE BY DRILLER _____			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>M &amp; W HECKSEL BROS.</u> <u>70-0337</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>18976 96th Ave, Coopersville</u> Signed <u>Merle J. Hecksel</u> Date <u>11-12-80</u> 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.

Import ID: 70081435008

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa		<b>Township:</b> Polkton	
<b>Well ID: 70000002164</b>		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 35	<b>Well Status:</b>	<b>WSSN:</b>
		<b>Distance and Direction from Road Intersection:</b> .1MI S OF GARFIELDST& 60TH AVE;300'E OF GARFIELD			
		<b>Well Owner:</b> SMOES, HERMAN			
<b>Elevation:</b> 647 ft.		<b>Well Address:</b> 15136 60TH AVE COOPERSVILLE, MI 49404		<b>Owner Address:</b> 15136 60TH AVE COOPERSVILLE, MI 49404	
<b>Latitude:</b> 43.0441657822					
<b>Longitude:</b> -85.935993973					
<b>Method of Collection:</b> Interpolation-Map					

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 230.00 ft.	<b>Date Completed:</b> 11/22/1971	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b> 4.00 ft. above grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Unknown		<b>Model Number:</b>	<b>Pump Capacity:</b> 0 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 100.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
<b>Diameter:</b> 4.00 in. to 174.00 ft. depth		<b>Draw Down Seal Used:</b> No	
<b>Borehole:</b>		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 32.00 ft. Below Grade	<b>Well Yield Test:</b> Pumping level 32.00 ft. after 2.00 hrs. at 45 GPM	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
			Yellow Sand W/Clay	3.00	3.00
			Yellow Clay	18.00	21.00
			Blue Clay	77.00	98.00
			Blue Clay W/Gravel	38.00	136.00
			Sand Gravel Clay	38.00	174.00
			Limestone	15.00	189.00
			Sandstone Medium Water Bearing	41.00	230.00

<b>Screen Installed:</b> No	<b>Intake:</b> Unknown	<b>Geology Remarks:</b>

<b>Well Grouted:</b> No	<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
		<b>Employment:</b> Unknown

<b>Nearest Source of Possible Contamination:</b>	<b>Contractor Type:</b> Unknown	<b>Reg No:</b> 70-0337
<b>Type</b>	<b>Business Name:</b>	
<b>Distance</b>	<b>Business Address:</b>	
<b>Direction</b>		
Septic tank	110 ft.	West

<b>Abandoned Well Plugged:</b> No	<b>Water Well Contractor's Certification</b>	
<b>Reason Not Plugged:</b>	This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
	<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b>



MAR 06 1972

**WATER WELL RECORD**

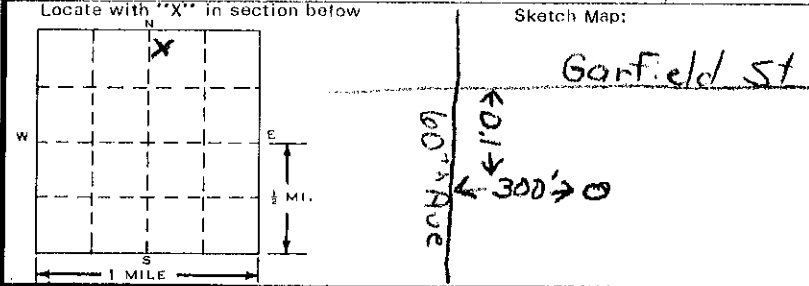
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

*MUNWNE*

<b>1 LOCATION OF WELL</b>		County <i>Ottawa</i>	Township Name <i>Polkton</i>	Fraction <i>NE 1/4 NW 1/4</i>	Section Number <i>35</i>	Town Number <i>8 N 1/2</i>	Range Number <i>14 W.</i>
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Distance And Direction from Road Intersections  
*0.1 mile South of Garfield St + 60<sup>th</sup> Ave*  
*Then 300 ft East of Garfield*  
 Street address & City of Well Location  
*15136 - 60<sup>th</sup> Ave Coopersville, Mich*



**3 OWNER OF WELL:**  
*Herman Smoes*  
 Address *15136 - 60<sup>th</sup> Ave*  
*Coopersville, Mich*

**4 WELL DEPTH:** (completed) *230* ft. Date of Completion *11-22-71*

**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  Diam. \_\_\_\_\_  
 Height: Above/Below Surface *32* ft. Weight *10.8* lbs./ft.  
 Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<i>Sand Yellow some Clay</i>	<i>3</i>	<i>3</i>
<i>Clay Yellow</i>	<i>18</i>	<i>21</i>
<i>Clay Blue</i>	<i>77</i>	<i>98</i>
<i>Clay Blue some gravel</i>	<i>38</i>	<i>136</i>
<i>Sand, gravel + Clay</i>	<i>38</i>	<i>174</i>
<i>Lime Rock - Shale</i>	<i>15</i>	<i>189</i>
<i>Sandstone Medium (water-bearing)</i>	<i>41</i>	<i>230</i>

**8 SCREEN:**  
 Type: *None* Dia.: \_\_\_\_\_  
 Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
 Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Fittings: \_\_\_\_\_

**9 STATIC WATER LEVEL**  
*32* ft. below land surface

**10 PUMPING LEVEL** below land surface  
*32* ft. after *2* hrs. pumping *45* 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**  
*110* feet *West* Direction *Septic Tank* Type  
 Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
 Manufacturer's Name *Goulds*  
 Model Number *HEL-10412* HP *1* Volts *230*  
 Length of Drop Pipe *100* ft. capacity *30* G.P.M.  
 Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**  
*Handwritten notes and signatures.*

**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.  
*M. W. Hecksel Bros* *0337*  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address *18976 - 96<sup>th</sup> Ave Coopersville*  
 Signed *Merle S. Hecksel* Date *2-24-72*  
 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.

Import ID: 70081427001

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa	<b>Township:</b> Polkton			
<b>Well ID: 70000002137</b>  Elevation: 680 ft. Latitude: 43.0551077222 Longitude: -85.9570421212 Method of Collection: Interpolation-Map		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 27	<b>Well Status:</b>	<b>WSSN:</b>	<b>Source ID/Well No:</b>
		<b>Distance and Direction from Road Intersection:</b> CORNER OF SLATE(OLD27)AND68;S OF SLATE 180';35'E OF 68				
		<b>Well Owner:</b> PRESTON, JAMES				
<b>Well Address:</b> 68TH AVE COOPERSVILLE, MI 49404			<b>Owner Address:</b> 68TH AVE COOPERSVILLE, MI 49404			

<b>Drilling Method:</b> Rotary	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 287.00 ft.	<b>Date Completed:</b> 2/28/1967	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b> 0.00 ft. below grade	<b>Manufacturer:</b> Other	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Unknown	<b>Casing Joint:</b> Threaded & coupled	<b>Model Number:</b>	<b>Pump Capacity:</b>
<b>Casing Fitting:</b> Drive shoe	<b>Diameter:</b> 4.00 in. to 0.00 ft. depth	<b>Drop Pipe Length:</b> 0.00 ft.	<b>Pump Voltage:</b>
<b>Borehole:</b>		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
		<b>Draw Down Seal Used:</b> No	
		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 56.00 ft. Below Grade	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
<b>Well Yield Test:</b>		Clay	184.00	184.00
		Clay & Gravel	48.00	232.00
		Limestone	25.00	257.00
<b>Screen Installed:</b> No	<b>Intake:</b> Bedrock Well	Green Sandstone Marshall Ss	28.00	285.00

<b>Well Grouted:</b> Yes	<b>Grouting Method:</b> Unknown	<b>Geology Remarks:</b>	
<b>Grouting Material:</b> Other	<b>Bags:</b> 0.00	<b>Additives:</b> None	<b>Depth:</b> 0.00 ft. to 0.00 ft.

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
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<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Unknown
<b>Type:</b> Unknown	<b>Distance:</b> 0 ft.
<b>Direction:</b>	

<b>Abandoned Well Plugged:</b> No	<b>Contractor Type:</b> Unknown	<b>Reg No:</b>
<b>Reason Not Plugged:</b>	<b>Business Name:</b>	
	<b>Business Address:</b>	

<b>Water Well Contractor's Certification</b>	
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b> Grouting Material 1:Listed as other in Wellkey, Pump Manufacturer: BURKS

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL			3 OWNER OF WELL:		
County <i>Ottawa</i>	Twp. <i>Polkton</i>	Fraction <i>N.W. N.W. 1/4</i>	Section No. <i>27</i>	Town <i>8</i>	Range <i>N 14 W.</i>
Distance And Direction from Road Intersections <i>corner of State (old 27) and 68 South of State 180 ft, 35 ft east of 68</i>			OWNER No. _____ Address: <i>James Preston 68th. ave. Coopersville, Mich.</i>		
2 FORMATION		THICKNESS OF STRATUM	4 WELL DEPTH: (completed) Date of Completion		
<i>184 Ft. Clay</i>			<i>287</i> ft.	<i>March 67</i>	
<i>48 Ft. Clay &amp; gravel</i>		<i>184</i>	5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug		
<i>25 Ft. limestone</i>			<input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
<i>28 Ft. green marshall</i>		<i>132</i>	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"/>		
			7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/>		
			Diam. <i>4</i> in. to _____ ft. Depth		
			Height: Above/Below surface _____ ft.		
			Weight _____ lbs/ft.		
			Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
			8 SCREEN: <i>Rock well</i>		
			Type: _____ Dia.: _____		
			Slot/Gauze _____ Length _____		
			Set between _____ ft. and _____ ft.		
			Fittings: _____		
			9 STATIC WATER LEVEL <i>56</i> 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 type="checkbox"/> In Approved Pit		
			<input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade		
			13 GROUTING:		
			Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> _____		
			Depth: From _____ ft. to _____ ft.		
			14 SANITARY:		
			Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____		
			Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			15 PUMP:		
			Manufacturer's Name <i>Burks</i>		
			Model Number _____ HP <i>112</i>		
			Length of Drop Pipe _____ ft. capacity _____ G.P.M.		
			Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> _____		
			<input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION:		
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.		
CONNECTED TO _____ <i>F</i>			<i>Rasmus Well Drilling 0426</i>		
ORIGINATOR _____			REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____		
			Address <i>Rt. 2 - 80th Ave. Coopersville, Mich.</i>		
			Signed <i>Frank Rasmus</i> Date <i>4-5-67</i>		
			AUTHORIZED REPRESENTATIVE		



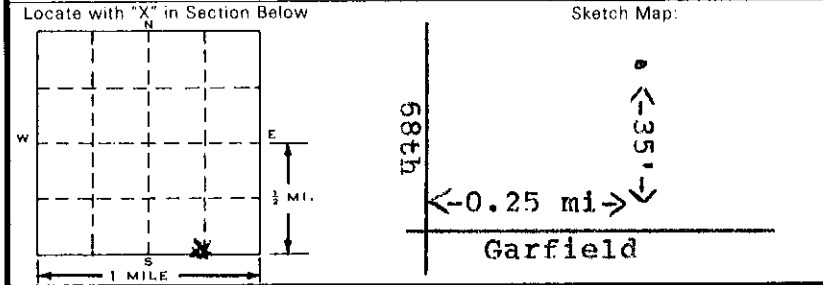
**WATER WELL AND PUMP RECORD**

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PERMIT NUMBER

1 LOCATION OF WELL		Fraction	Section Number	Town Number	Range Number
County	Township Name	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub>	27	8 N/S	14 E/W
Ottawa		Polkton			

Distance And Direction From Road Intersection  
**About 0.25 Mi. E. of 68th & Garfield**  
**Then about 35' N. of Garfield**  
**Parcel #70-05-27-400-005**  
 Street Address & City of Well Location **6593 Garfield**



3 OWNER OF WELL:  
**Laidlaw Waste Systems**  
 Address **15550 68th Ave. Coopersville MI 49404**  
 Address Same As Well Location?  Yes  No

4 WELL DEPTH: Date Completed MO. DAY YEAR  New Well  
**245 FT.** **1 15 96**  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  
**4 in. to 201 ft. depth**  
**3 in. liner 194-215 ft. depth**  
 Grouted Drill Hole Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Drive Shoe  Yes  No  
 Height: Above/Below Surface **1** ft.  
 Weight **10.8** lbs./ft.

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand, black	2 1/2	2 1/2
Clay, yellow	14 1/2	17
Clay, blue	17	34
Clay, gray	124	158
Gravel	5	163
Sand & Gravel, mixed	21	184
Clay & Gravel	14	198
Lime Rock	13	211
Marshall Rock	34	245

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: **62** ft. below land surface  Flow

10 PUMPING LEVEL: below land surface  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping at **50** 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 **3 1/2** to **25+** ft.  
 Neat cement  Bentonite  Other \_\_\_\_\_  
 No. of bags of cement **4 1/2** Additives \_\_\_\_\_

13 Nearest source of possible contamination  
 Type **Septic** Distance **65** ft. Direction **NE**  
 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.  
**Old well about 80' NE of new well.**  
**2" well - plugged with 4 bags of hole plug.**

17. Rig Operator's Name:  
**William Hecksel**

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 Hecksel Bros.** **70-0337**  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address **9175 Cleveland, Nunica MI 49448**  
 Signed **Marble Hecksel** Date **1/29/96**  
 AUTHORIZED REPRESENTATIVE

Authority: Act 388 PA 1978  
 Completion: Required  
 Penalty: Conviction of a violation of any provision is a misdemeanor.

**MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
WATER WELL AND PUMP RECORD**

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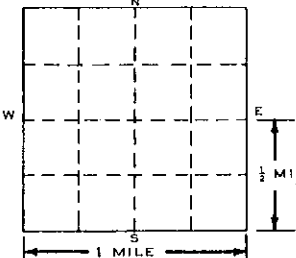
**PERMIT NUMBER**

1 LOCATION OF WELL						
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>1/4</b>	Section Number <b>34</b>	Town Number <b>8 N/W</b>	Range Number <b>14 E/W</b>	

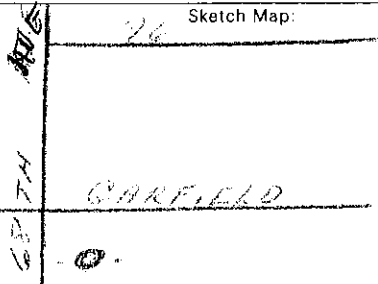
Distance And Direction From Road Intersection  
**60' East of 68th Avenue - South of Garfield**

Street Address & City of Well Location **15550 68th Ave., C'ville**

Locate with "X" in Section Below



Sketch Map:



3 OWNER OF WELL: **Laidlaw Waste Systems**  
Address **15550 68th Ave., Coopersville**  
Address Same As Well Location?  Yes  No

4 WELL DEPTH: Date Completed MO. DAY YEAR  New Well  
**280 FT.** **6 6 90**  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 Surface **1** ft.  
**5** in. to **222** ft. depth Weight **2.8** lbs./ft.  
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: **83** ft. below land surface  Flow

10 PUMPING LEVEL: below land surface  
\_\_\_\_\_ ft. after **4** hrs. pumping at **70** 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 **222** to **surface**  
 Neat cement  Bentonite  Other \_\_\_\_\_  
No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

13 Nearest source of possible contamination  
Type **Septic tank** Distance **50** ft. Direction **East**  
Well disinfected upon completion?  Yes  No  
Was old well plugged?  Yes  No

14 PUMP:  Not Installed  Pump Installation Only  
Manufacturer's name **Aermotor**  
Model number **A12-100** HP **1** Volts **230**  
Length of Drop Pipe **120** ft. capacity **18** G.P.M.  
TYPE:  Submersible  Jet  
PRESSURE TANK: Manufacturer's name **Used their tank**  
Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	5	5
Clay	134	139
Clay & Gravel	47	186
Gypsum	15	201
Shale	5	206
Limestone & Shale	6	212
Limestone	5	217
Shale	3	220
Marshall Sandstone	60	280
<b>RECEIVED</b> Mich. Dept. of Public Health  SEP 24 1990  BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS		
USE A 2ND SHEET IF NEEDED		

15. Remarks, elevation, source of data, etc.  
*RECEIVED*

17. Rig Operator's Name: \_\_\_\_\_

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.

**Raymer Company, Inc.** **0384**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **3311 Three Mile Rd., N.W., Grand Rapids, MI.**  
Signed *A. Decker* Date **July 23, 1990**  
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.

Import ID:

<b>Tax No:</b> 70-05-27-100-009	<b>Permit No:</b> 10-270	<b>County:</b> Ottawa	<b>Township:</b> Polkton
<b>Well ID:</b> 70000008958		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 27
<b>Elevation:</b>		<b>Well Status:</b> Active	<b>WSSN:</b>
<b>Latitude:</b> 43.05669		<b>Source ID/Well No:</b>	
<b>Longitude:</b> -85.958812		<b>Distance and Direction from Road Intersection:</b> 6862 Arthur St	
<b>Method of Collection:</b> Interpolation-Map		<b>Well Owner:</b> Merle Hecksel	
		<b>Well Address:</b> 6862 Arthur Coopersville, MI 49404	<b>Owner Address:</b> 9175 Cleveland Nunica, MI 49448-9601

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Type III public	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 248.00 ft.	<b>Date Completed:</b> 3/25/2011	<b>Pump Installation Date:</b> 3/18/2011	<b>HP:</b> 3.00
<b>Well Type:</b> New	<b>Height:</b> 1.00 ft. above grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Steel - galvanized		<b>Model Number:</b> 25GS30432	<b>Pump Capacity:</b> 25 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 147.00 ft.	<b>Pump Voltage:</b> 230
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b> 1.25 in.	<b>Drilling Record ID:</b>
		<b>Draw Down Seal Used:</b> Yes	
<b>Diameter:</b> 4.00 in. to 210.00 ft. depth		<b>Pressure Tank Installed:</b> Yes	
3.00 in. to 233.00 ft. depth		<b>Pressure Tank Type:</b> Diaphragm/bladder	
<b>Borehole:</b> 8.00 in. to 15.00 ft. depth		<b>Manufacturer:</b> Goulds	
4.00 in. to 298.00 ft. depth		<b>Model Number:</b> V-60	<b>Tank Capacity:</b> 20.0 Gallons
		<b>Pressure Relief Valve Installed:</b> Yes	

<b>Static Water Level:</b> 62.00 ft. Below Grade	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
<b>Well Yield Test:</b> Pumping level 62.00 ft. after 1.00 hrs. at 40 GPM			
<b>Yield Test Method:</b> Plunger	Brown Clay	12.00	12.00
	Gray Clay	78.00	90.00
	Gray Clay & Gravel	12.00	102.00
	Gravel Cemented	54.00	156.00
	Gravel & Clay	48.00	204.00
	Limestone	5.00	209.00
	Sandstone Water Bearing	89.00	298.00

<b>Screen Installed:</b> No	<b>Intake:</b> Bedrock Well	<b>Geology Remarks:</b>
<b>Well Grouted:</b> Yes	<b>Grouting Method:</b> Driven/dry grout	
<b>Grouting Material:</b> Bentonite dry granular	<b>Bags:</b> 4.00	
<b>Additives:</b> None	<b>Depth:</b> 0.00 ft. to 210.00 ft.	

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b> Gordon Hill
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<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Employee
<b>Type:</b> None	<b>Pump Installer:</b> Steven Hecksel
<b>Distance:</b>	
<b>Direction:</b>	

<b>Contractor Type:</b> Water Well Drilling Contractor	<b>Reg No:</b> 70-0337
<b>Business Name:</b> Hecksel Bros. Well Drilling	
<b>Business Address:</b> 9175 Cleveland, Nunica, MI, 49448	

<b>Water Well Contractor's Certification</b>	
This well/pump was constructed under my supervision and I hereby certify that the work complies with Part 127 Act 368 PA 1978 and the well code.	
<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b> Pumping system includes Pentek Intelli Drive
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<b>Other Remarks:</b>
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WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

NW NW NE

1 LOCATION OF WELL

County Ottawa Twp. Polkton Fraction ~~NW NE~~ NW Section No. 34 Town 8 Range 14 N/W.

Distance And Direction from Road Intersections  
South of Barfield 100 ft  
East of 68th Ave 180 ft  
 Street address & City of Well Location  
 OWNER No. \_\_\_\_\_

3 OWNER OF WELL:  
Erwin Kloosterhouse  
 Address 15170 - 68th Ave.  
Coopersville, Mich.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>188 Ft. Clay</u>		<u>188</u>
<u>16 Ft. sand</u>		<u>204</u>
<u>16 Ft. Rock</u>		

4 WELL DEPTH: (completed) 220 ft. Date of Completion March 67

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. 3 in. to 204 ft. Depth  
 Height: Above/Below surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lbs/ft.  
 Drive Shoe? Yes  No

8 SCREEN: Type: Rock well Dia.: \_\_\_\_\_  
 Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
 Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Fittings: \_\_\_\_\_

9 STATIC WATER LEVEL 45 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:  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 \_\_\_\_\_ feet \_\_\_\_\_ Direction \_\_\_\_\_ Type \_\_\_\_\_  
 Well disinfected upon completion  Yes  No

15 PUMP:  
 Manufacturer's Name Reda  
 Model Number \_\_\_\_\_ HP. 1/2  
 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: F  
 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.  
Rasmus Well Drilling 0426  
 REGISTERED BUSINESS NAME REGISTRATION NO. \_\_\_\_\_  
 Address Rt. 2 - 80th Ave. Coopersville, Mich.  
 Signed Frank Rasmus Date 4-5-67  
 AUTHORIZED REPRESENTATIVE

673  
 204  
 188

**JUL 29 1980**

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	Section Number <b>34</b>	Town Number <b>8 N/S.</b>	Range Number <b>14 W.</b>

Distance And Direction from Road Intersections  
**About 200 ft. east of 68th Ave & Garfield**  
**Then about 150 ft. south of Garfield**  
Street address & City of Well Location **15170 68th Ave. Coopersville**  
Locate with "X" in section below      Sketch Map:

**3 OWNER OF WELL:**  
Address **Orwin Kloosterhouse**  
**15170 68th Ave.**  
**Coopersville, Mich.**

**4 WELL DEPTH: (completed)**      Date of Completion  
**256 ft.**

**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 **3 1/2** ft.  
Diam. \_\_\_\_\_      Weight **10.8** lbs./ft.  
**4** in. to **204** ft. Depth      Drive Shoe? Yes  No   
**3** in. to **196-222** ft. Depth

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Black dirt	1	1
clay, yellow	16	17
clay, blue	131	148
gravel & clay, mixed	49	197
lime rock	25	222
marshall rock	34	256

**8 SCREEN:**      **NONE**  
Type: \_\_\_\_\_ Dia.: \_\_\_\_\_  
Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
Fittings: \_\_\_\_\_

**9 STATIC WATER LEVEL**  
**64** ft. below land surface

**10 PUMPING LEVEL** below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping **50** 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  
**55** feet **SW** Direction **Septic Tank** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **Goulds**  
Model Number **13EM-10412** HP **1** Volts **230**  
Length of Drop Pipe **105** ft. capacity **15** G.P.M.  
Type:  Submersible  
 Jet                     Reciprocating  
**Pump Serial # F091096**

**16 Remarks, elevation, source of data, etc.**  
**ADDED INFO BY DW** [Signature]  
**CORRECTED BY**  
**\*ADDITION BY**  
**ELEVATION**  
**DEPTH TO FOOT** [Signature]

**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.  
**Mow Hecksel Bros.**      **70-0337**  
REGISTERED BUSINESS NAME      REGISTRATION NO.  
Address **18976 96th Ave, Coopersville**  
Signed **Mark Hecksel**      Date **6-24-80**  
AUTHORIZED REPRESENTATIVE

APR 7 1983

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

PART 127 ACT 388, P.A. 1978

<b>1 LOCATION OF WELL</b>			County <b>Ottawa</b>		Township Name <b>Polkton</b>		Fraction 1/4 1/4 1/4		Section Number <b>27</b>		Town Number <b>8 N/3</b>		Range Number <b>14 E/W</b>																			
Distance And Direction From Road Intersection <b>150' East of 68th Avenue</b>					<b>3 OWNER OF WELL: Ottawa County Farms</b>																											
Street Address & City of Well Location <b>150' East of 68th Avenue</b>					Address <b>Garfield &amp; 68th Avenue, Coopersville, Michigan</b>																											
Locate with "X" in Section Below					Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																											
					<b>4 WELL DEPTH: (completed) 300 ft.</b>					Date of Completion <b>Nov. 24, 1982</b>																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"><b>2 FORMATION DESCRIPTION</b></td> <td style="width:16.5%;"><b>THICKNESS OF STRATUM</b></td> <td style="width:16.5%;"><b>DEPTH TO BOTTOM OF STRATUM</b></td> </tr> <tr> <td><b>Brown Sandy Clay</b></td> <td style="text-align:center"><b>7</b></td> <td style="text-align:center"><b>7</b></td> </tr> <tr> <td><b>Brown Clay, solid</b></td> <td style="text-align:center"><b>128</b></td> <td style="text-align:center"><b>135</b></td> </tr> <tr> <td><b>Gray Clay w/little Gravel</b></td> <td style="text-align:center"><b>63</b></td> <td style="text-align:center"><b>198</b></td> </tr> <tr> <td><b>Limestone (Caprock)</b></td> <td style="text-align:center"><b>5</b></td> <td style="text-align:center"><b>203</b></td> </tr> <tr> <td><b>Marshall Sandstone (Gray)</b></td> <td style="text-align:center"><b>97</b></td> <td style="text-align:center"><b>300</b></td> </tr> </table>					<b>2 FORMATION DESCRIPTION</b>	<b>THICKNESS OF STRATUM</b>	<b>DEPTH TO BOTTOM OF STRATUM</b>	<b>Brown Sandy Clay</b>	<b>7</b>	<b>7</b>	<b>Brown Clay, solid</b>	<b>128</b>	<b>135</b>	<b>Gray Clay w/little Gravel</b>	<b>63</b>	<b>198</b>	<b>Limestone (Caprock)</b>	<b>5</b>	<b>203</b>	<b>Marshall Sandstone (Gray)</b>	<b>97</b>	<b>300</b>	<b>5</b> <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"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>				
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<p style="text-align: center;"><b>ADDED INFO BY DRILLER, ITEM NO.</b></p> <p style="text-align: center;"><b>*CORRECTED BY</b></p> <p style="text-align: center;"><b>**ADDITION BY</b></p> <p style="text-align: center;"><b>ELEVATION</b></p> <p style="text-align: center;"><b>DEPTH TO ROCK</b></p> <p style="text-align: center; font-size: 2em; opacity: 0.5;">RECEIVED</p> <p style="text-align: center; font-size: 1.2em; opacity: 0.5;">Mar. Dept. of Public Health</p> <p style="text-align: center; font-size: 1.2em; opacity: 0.5;">MAR 11 1983</p> <p style="text-align: center; font-size: 1.2em; opacity: 0.5;">Environmental and Occupational Health Services Administration</p>					<b>6 USE:</b> <input 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 checked="" type="checkbox"/> <b>Commercial</b>					<b>7 CASING:</b> Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded					Height: Above/Below Surface <b>1</b> ft.																	
<p style="text-align: center;">USE A 2ND SHEET IF NEEDED</p>					_____ in. to _____ ft. depth					Weight <b>11</b> lbs./ft.																						
					Grouted Drill Hole Diameter <b>4</b> in. to <b>205</b> ft. depth					Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																						
<p style="text-align: center;">15. Remarks, elevation, source of data, etc.</p> <p style="text-align: center;"><b>Water Test</b></p> <p style="text-align: center;"><b>42 grains hard</b></p> <p style="text-align: center;"><b>1.5 p.p.m. Iron</b></p> <p style="text-align: center;"><b>NO Chlorides</b></p>					<b>8 SCREEN:</b> <input checked="" type="checkbox"/> Not Installed																											
					Type _____ Diameter _____					Slot/Gauze _____ Length _____																						
<p style="text-align: center;">16. WATER WELL CONTRACTOR'S CERTIFICATION:</p> <p style="text-align: center;">This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.</p> <p style="text-align: center;"><b>Raymer Company, Inc.</b></p> <p style="text-align: center;">REGISTERED BUSINESS NAME</p> <p style="text-align: center;">Address <b>3311 Three Mile Rd., N.W., Grand Rapids, MI.</b></p> <p style="text-align: center;">Signed <i>[Signature]</i> Date <b>Dec. 13, 1982</b></p> <p style="text-align: center;">AUTHORIZED REPRESENTATIVE</p>					Set between _____ ft. and _____ ft.					FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check																						
					<input type="checkbox"/> Blank above screen _____ ft. Other _____					<b>9 STATIC WATER LEVEL:</b> _____ <b>64</b> ft. below land surface <input type="checkbox"/> Flow																						
<p style="text-align: center;">14 PUMP:</p> <p>Manufacturer's name <b>Red Jacket</b></p> <p>Model number <b>S100N1-8CC</b> HP <b>1</b> Volts <b>230</b></p> <p>Length of Drop Pipe <b>130</b> ft. capacity <b>20</b> G.P.M.</p> <p>TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet</p> <p>PRESSURE TANK:</p> <p>Manufacturer's name <b>Amtrol</b></p> <p>Model number <b>WX 251</b> Capacity _____ Gallons</p>					<b>10 PUMPING LEVEL:</b> below land surface _____ ft. after <b>4</b> hrs. pumping at <b>50</b> G.P.M.					_____ ft. after _____ hrs. pumping at _____ G.P.M.																						
					<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade					<input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit																						
<p style="text-align: center;">13 Nearest source of possible contamination</p> <p>Type <b>Septic Tank</b> Distance <b>100</b> ft. Direction <b>N.</b></p> <p>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>					<input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____					No. of bags of cement _____ Additives _____																						
					_____ ft. below land surface					_____ ft. below land surface																						

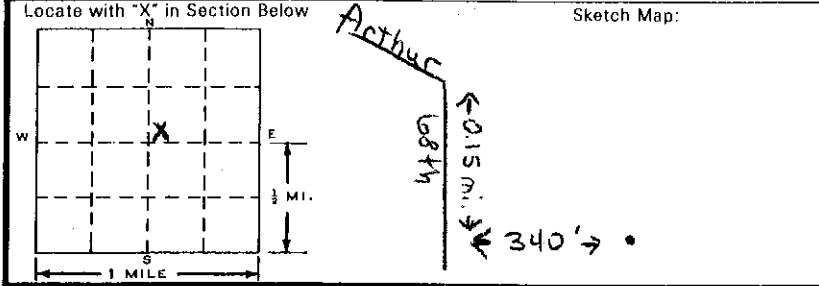
**WATER WELL AND PUMP RECORD**

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PERMIT NUMBER

<b>1 LOCATION OF WELL</b>			
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>SW 1/4 SW 1/4 NE 1/4</b>	Section Number <b>27</b>
		Town Number <b>8 N/E</b>	Range Number <b>8 B/W</b>

Distance And Direction From Road Intersection  
**About 0.15 mi. south of Arthur & both  
Then about 340 ft. east of both Ave.**



**3 OWNER OF WELL:**  
Address  
**Rieth - Riley Construction  
15634 both Ave  
Coopersville, Mich. 49401**

Address Same As Well Location?  Yes  No

**4 WELL DEPTH:** **242 FT.** Date Completed **8/1/88**  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 \_\_\_\_\_ ft.  
Weight \_\_\_\_\_ lbs./ft.  
Drive Shoe  Yes  No

**2 FORMATION DESCRIPTION**

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
clay, soft	110	110
clay & stones	87	197
limestone	6	203
clay	3	(206)
sandstone		
waterbearing	36	242

**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:** **54** ft. below land surface  Flow

**10 PUMPING LEVEL:** below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping at \_\_\_\_\_ 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  
Was old well plugged?  Yes  No

**14 PUMP:**  Not Installed  Pump Installation Only  
Manufacturer's name **Grundfos - Serial #W027588**  
Model number **25EL15412HP 1/2** Volts **230**  
Length of Drop Pipe **126** ft. capacity **2.5** G.P.M.  
TYPE:  Submersible  Jet  
PRESSURE TANK: Manufacturer's name **A.O. Smith**  
Model number **V-260** Capacity **86** Gallons

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:

**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 a W Hecksel Bros, 70-0337**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **9175 Cleveland, Nunica**  
Signed **M a W Hecksel** Date **8-26-88**  
AUTHORIZED REPRESENTATIVE

**RECEIVED**  
Mich. Dept. of Public Health  
**SEP 29 1988**  
Bureau of Environmental and  
Occupational Health - GWOS

USE A 2ND SHEET IF NEEDED

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

**MICHIGAN DEPARTMENT OF PUBLIC HEALTH**  
**WATER WELL AND PUMP RECORD**

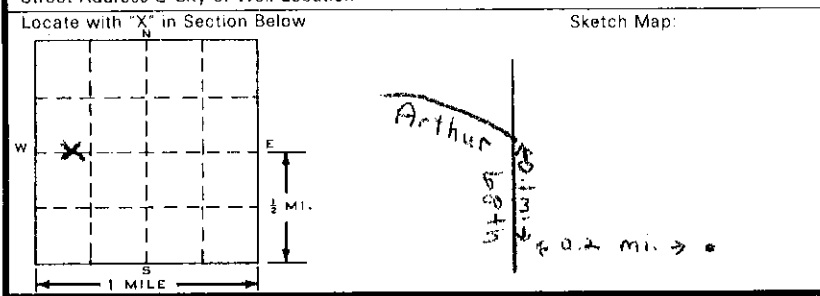
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**PERMIT NUMBER**

1 LOCATION OF WELL				
County <u>Ottawa</u>	Township Name <u>Polkton</u>	Fraction <u>SE 1/4 SW 1/4 NW 1/4</u>	Section Number <u>27</u>	Town Number <u>8 N 8</u> Range Number <u>14 E/W</u>

Distance And Direction From Road Intersection  
About 0.1 mi. south of Arthur & 68th  
Then about 0.2 mi. east of 68th Ave.

Street Address & City of Well Location  
Coopersville, MI 49404



3 OWNER OF WELL: Rieth-Riley Construction  
Address 15634 68th Ave.  
Coopersville, MI 49404  
Address Same As Well Location?  Yes  No

4 WELL DEPTH: Date Completed MO. DAY YEAR  New Well  
250 ft. 7 13 89  Replacement Well

5  Cable tool  Rotary  Driven  Auger  
 Hollow rod  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  Steel  Threaded  Plastic  Welded  
4 in. to 193 ft. depth  
3 in. to 184 ft. depth  
Grouted Drill Hole Diameter  
\_\_\_\_ in. to \_\_\_\_ ft. depth  
\_\_\_\_ in. to \_\_\_\_ ft. depth  
Height: Above/Below  
Surface 3 1/2 ft.  
Weight 10.2 lbs./ft.  
Drive Shoe  Yes  No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>gravel fill</u>	<u>4</u>	<u>4</u>
<u>clay, blue</u>	<u>58</u>	<u>62</u>
<u>sand &amp; clay, brown</u>	<u>8</u>	<u>70</u>
<u>clay, blue</u>	<u>72</u>	<u>142</u>
<u>gravel &amp; clay, mixed</u>	<u>46</u>	<u>188</u>
<u>lime rock &amp; shale</u>	<u>14</u>	<u>202</u>
<u>Marshall rock</u>		
<u>water bearing</u>	<u>48</u>	<u>250</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: 48 ft. below land surface  Flow

10 PUMPING LEVEL: below land surface  
\_\_\_\_ ft. after \_\_\_\_ 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 3 1/2 to 50 ft.  
 Neat cement  Bentonite  Other \_\_\_\_\_  
No. of bags of cement 14 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 Sorial #W011276  
Model number 2SEL15422HP 1 1/2 Volts 250  
Length of Drop Pipe 105 ft. capacity 25 G.P.M.  
TYPE:  Submersible  Jet  
PRESSURE TANK: Well Extrol  
Manufacturer's name \_\_\_\_\_  
Model number WX-251 Capacity 62 Gallons

15. Remarks, elevation, source of data, etc.

17. Rig Operator's Name:  
William Hecksel

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 Hecksel Bros 70-0337  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 9175 Cleveland, Nunica  
Signed Merle Hecksel Date 7/14/89  
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.

Import ID:

<b>Tax No:</b> 70 05 27 300 001	<b>Permit No:</b> 08-246	<b>County:</b> Ottawa	<b>Township:</b> Polkton
<b>Well ID: 70000008352</b>		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 27
<b>Elevation:</b>		<b>Well Status:</b> Active	<b>WSSN:</b>
<b>Latitude:</b> 43.05199		<b>Source ID/Well No:</b>	
<b>Longitude:</b> -85.95761		<b>Distance and Direction from Road Intersection:</b> 120' WEST OF 68TH AVENUE 1/2 MILE SOUTH OF I-96	
<b>Method of Collection:</b> GPS Std Positioning Svc SA Off		<b>Well Owner:</b> RIVER RIDGE FARMS	
		<b>Well Address:</b> 15585 68TH AVENUE COOPERSVILLE, MI 49404	<b>Owner Address:</b> 15585 68TH AVENUE COOPERSVILLE, MI 49404

<b>Drilling Method:</b> Rotary	<b>Well Use:</b> Type III public	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 280.00 ft.	<b>Date Completed:</b> 4/15/2009	<b>Pump Installation Date:</b> 4/15/2009	<b>HP:</b> 2.00
<b>Well Type:</b> Replacement	<b>Height:</b> 1.00 ft. above grade	<b>Manufacturer:</b> Grundfos	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> PVC plastic	<b>Casing Joint:</b> Solvent welded/glued	<b>Model Number:</b> 25S20-11	<b>Pump Capacity:</b> 25 GPM
<b>Casing Fitting:</b> Shale packer/trap, Drive shoe, Centralizer		<b>Drop Pipe Length:</b> 105.00 ft.	<b>Pump Voltage:</b>
		<b>Drop Pipe Diameter:</b> 1.25 in.	<b>Drilling Record ID:</b>
		<b>Draw Down Seal Used:</b> No	
<b>Diameter:</b> 5.00 in. to 187.00 ft. depth SDR: 21.00		<b>Pressure Tank Installed:</b> Yes	
5.00 in. to 207.00 ft. depth SDR: 17.00		<b>Pressure Tank Type:</b> Diaphragm/bladder	
<b>Borehole:</b> 8.75 in. to 207.00 ft. depth		<b>Manufacturer:</b> Amtrol	
4.00 in. to 280.00 ft. depth		<b>Model Number:</b> WX-302	<b>Tank Capacity:</b> 86.0 Gallons
		<b>Pressure Relief Valve Installed:</b> Yes	

<b>Static Water Level:</b> 55.00 ft. Below Grade	<b>Yield Test Method:</b> Air	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
<b>Well Yield Test:</b> Pumping level 110.00 ft. after 2.00 hrs. at 50 GPM		Topsoil	1.00	1.00
		Brown Clay	9.00	10.00
		Gray Clay	185.00	195.00
<b>Screen Installed:</b> No	<b>Intake:</b> Bedrock Well	Limestone	12.00	207.00
		Sandstone	73.00	280.00

<b>Well Grouted:</b> Yes	<b>Grouting Method:</b> Grout pipe outside casing	<b>Geology Remarks:</b>
<b>Grouting Material:</b> Bentonite slurry	<b>Bags:</b> 18.00	
<b>Additives:</b> None	<b>Depth:</b> 0.00 ft. to 207.00 ft.	

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b> JAMES NEUBECKER
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<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Employee
<b>Type</b>	<b>Pump Installer:</b> CURT VISSER
Septic tank	
Animal yard/Feedlot	
<b>Distance</b>	
94 ft.	
97 ft.	
<b>Direction</b>	
North	
South	

<b>Abandoned Well Plugged:</b> Yes	<b>Contractor Type:</b> Water Well Drilling Contractor	<b>Reg No:</b> 70-2354
	<b>Business Name:</b> Raymer Company	
	<b>Business Address:</b> 1357 Comstock Street, Marne, MI, 49435	

**Water Well Contractor's Certification**  
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

<b>Casing Diameter:</b> 5 in.	<b>Casing Removed:</b> No	<b>Signature of Registered Contractor</b>	<b>Date</b>
<b>Plugging Material:</b> Other			
<b>No. of Bags:</b> 0.00	<b>Well Depth:</b> 260 ft.		

**General Remarks:**

**Other Remarks:** Plugging Material:SEE #70000008112

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
**WATER WELL AND PUMP RECORD**

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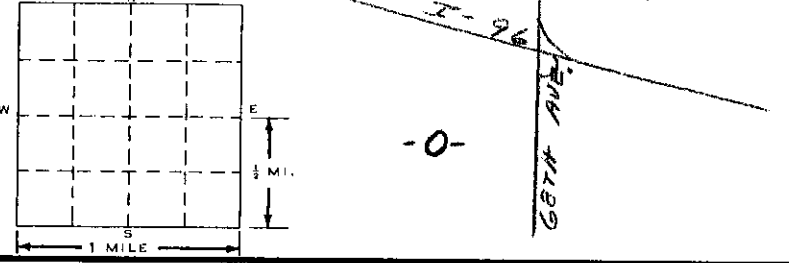
PERMIT NUMBER  
 70-05-27-300-001

<b>1 LOCATION OF WELL</b>			
County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>SE 1/4 NE 1/4 SW 1/4</b>	Section Number <b>27</b>
		Town Number <b>8 N/6</b>	Range Number <b>14 @/W</b>

Distance And Direction From Road Intersection  
**210' West of 68th Avenue - South of I-96**

Street Address & City of Well Location **15585 68th Ave., Coopersville**

Locate with "X" in Section Below



**3 OWNER OF WELL:**  
**River Ridge Farms, Inc.**  
 Address **15585 68th Avenue, Coopersville**

Address Same As Well Location?  Yes  No

**4 WELL DEPTH:** Date Completed MO. DAY YEAR  New Well  
**260 FT.** **9 17 93**  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  **Farm**

**7 CASING:** Diameter  Steel  Threaded  Plastic  Welded  
 Height: Above/Surface **1** ft.  
 Weight **2.8** 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:**  
**68** ft. below land surface  Flow

**10 PUMPING LEVEL:** below land surface  
 \_\_\_\_\_ ft. after **4** hrs. pumping at **60** 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 **207** to **surface** ft.  
 Neat cement  Bentonite  Other \_\_\_\_\_  
 No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

**13 Nearest source of possible contamination**  
 Type **Septic** Distance **100** ft. Direction **E**  
 Well disinfected upon completion?  Yes  No  
 Was old well plugged?  Yes  No stand by

**14 PUMP:**  Not Installed  Pump Installation Only  
 Manufacturer's name **Grundfos**  
 Model number **60S50-9** HP **5** Volts **230**  
 Length of Drop Pipe **147** ft. capacity **60** G.P.M.  
 TYPE:  Submersible  Jet  
 PRESSURE TANK:  
 Manufacturer's name **Used owner's**  
 Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay & Gravel	97	97
Clay	22	119
Clay & Gravel	76	195
Broken-Up Lime	5	200
Limestone	7	207
Sandstone	53	260

**15** Remarks, Elevation, source of data, etc.

**17** Rig Operator's Name: \_\_\_\_\_

RECEIVED  
 MICH. DEPT. OF PUBLIC HEALTH  
 ENVIRONMENTAL HEALTH  
 BUREAU OF ENVIRONMENTAL  
 AND OCCUPATIONAL HEALTH  
 JAN 1 94  
 93 DEC 10 PM 2:05

**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.

**Raymer Company, Inc.** **0384**  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address **3311 Three Mile Rd., N.W., Grand Rapids**  
 Signed *Chris Neuberger* Date **Nov. 4, 1993**  
 AUTHORIZED REPRESENTATIVE

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

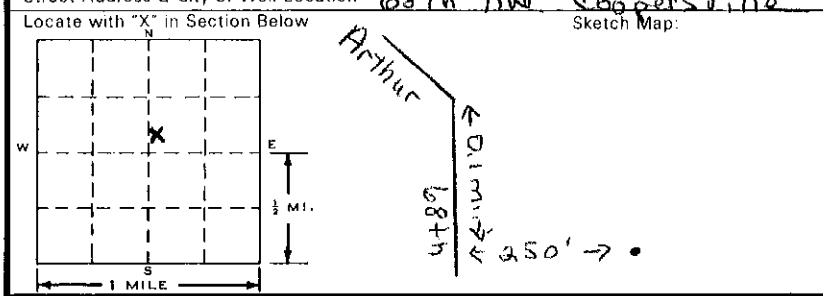
**WATER WELL AND PUMP RECORD**

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PERMIT NUMBER

<b>1 LOCATION OF WELL</b>					
County <u>Ottawa</u>	Township Name <u>Polkton</u>	Fraction <u>SW 1/4 SW 1/4 NE 1/4</u>	Section Number <u>27</u>	Town Number <u>8 N/S</u>	Range Number <u>14 E/W</u>

Distance And Direction From Road Intersection  
About 0.1 mi. south of Arthur & 68th  
Then about ~~400~~<sup>250</sup> ft. east of 68th Ave.  
Street Address & City of Well Location 68th Ave Coopersville



**3 OWNER OF WELL:**  
Address Terry Weaver  
2110 Wilson, N.W.  
Grand Rapids, MI 49504  
Address Same As Well Location?  Yes  No

**4 WELL DEPTH:** Date Completed 4 12 90  
250 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  
4 in. to 196 ft. depth  
3 in. to 215 ft. depth  
Grouted Drill Hole Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
Drive Shoe  Yes  No  
Height: Above/Below Surface 1 ft.  
Weight 10.8 lbs./ft.

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>clay, yellow</u>	<u>11</u>	<u>11</u>
<u>clay, yellow &amp; sand</u>	<u>4</u>	<u>15</u>
<u>clay, blue w/gravel</u>	<u>75</u>	<u>90</u>
<u>clay, gray &amp; gravel</u>	<u>48</u>	<u>138</u>
<u>sand, tan</u>	<u>20</u>	<u>158</u>
<u>gravel, gray &amp; clay</u>	<u>35</u>	<u>(193)</u>
<u>lime rock</u>	<u>19</u>	<u>212</u>
<u>marshall rock</u>		
<u>waterbearing</u>	<u>38</u>	<u>250</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:**  
58 ft. below land surface  Flow

**10 PUMPING LEVEL:** below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ 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 3 to 60 ft.  
 Neat cement  Bentonite  Other \_\_\_\_\_  
No. of bags of cement 11 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 Serial # \_\_\_\_\_  
Model number 25FL15412 HP 1 1/2 Volts 230  
Length of Drop Pipe 126 ft. capacity 25 G.P.M.  
TYPE:  Submersible  Jet \_\_\_\_\_  
PRESSURE TANK:  
Manufacturer's name \_\_\_\_\_  
Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

15. Remarks, elevation, source of data, etc.  
Well grouted to 60' with 8" hole  
inspected by Jack Van Eerden during  
grouting process

17. Rig Operator's Name:  
William Hecksel - Dotted  
11/25/90

**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.  
W & W Hecksel Bros. - 70-0337  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 9175 Cleveland, Nunica  
Signed Michael Hecksel Date 4-20-90  
AUTHORIZED REPRESENTATIVE

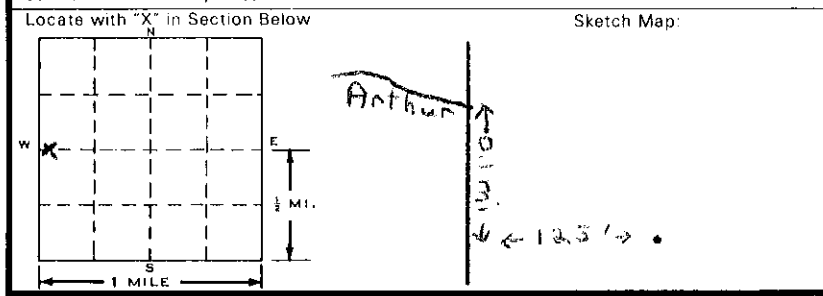
**WATER WELL AND PUMP RECORD**

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PERMIT NUMBER

1 LOCATION OF WELL				
County <u>Ottawa</u>	Township Name <u>Polleton</u>	Fraction <u>SW 1/4 SW 1/4 NW 1/4</u>	Section Number <u>27</u>	Town Number <u>8 N/8</u> Range Number <u>14 E/W</u>

Distance And Direction From Road Intersection  
About 0.1 mi. south of Arthur & bath  
Then about 125 ft. east of bath



3 OWNER OF WELL:

Throop Motor Sport Inc.  
Address 68th Ave.  
Coopersville, MI 49404  
Address Same As Well Location?  Yes  No

4 WELL DEPTH: Date Completed

MO.	DAY	YEAR	<input checked="" type="checkbox"/> New Well
<u>7</u>	<u>12</u>	<u>89</u>	<input type="checkbox"/> 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  
4 in. to 198 ft. depth Surface 1 ft.  
3 in. to 192 ft. depth Weight 1012 lbs./ft.  
Grouted Drill Hole Diameter  
\_\_\_\_ in. to \_\_\_\_ ft. depth Drive Shoe  Yes  No  
\_\_\_\_ in. to \_\_\_\_ ft. depth

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>sand, yellow &amp; clay</u>	<u>11</u>	<u>11</u>
<u>clay, blue</u>	<u>85</u>	<u>96</u>
<u>clay, gray</u>	<u>54</u>	<u>150</u>
<u>sand</u>	<u>30</u>	<u>180</u>
<u>gravel w/clay</u>	<u>16</u>	<u>196</u>
<u>lime rock</u>	<u>15</u>	<u>211</u>
<u>marshall rock</u>		
<u>water bearing</u>	<u>39</u>	<u>250</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: \_\_\_\_\_ 62 ft. below land surface  Flow

10 PUMPING LEVEL: below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ 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 3 1/2 to 50 ft.  
 Neat cement  Bentonite  Other \_\_\_\_\_  
No. of bags of cement 14 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 - Serial # W062251  
Model number 25EL15412-HP 1 1/2 Volts 230  
Length of Drop Pipe 105 ft. capacity 25 G.P.M.  
TYPE:  Submersible  Jet  
PRESSURE TANK: Manufacturer's name A.O. Smith  
Model number V-140 Capacity 44 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.

17. Rig Operator's Name:  
William Wecksel

M & W Wecksel Bros. 70-0337  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 9175 Cleveland, Nunica  
Signed Mark Wecksel Date 7/14/89  
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

1 LOCATION OF WELL		Polkton		Range <del>14</del> <sup>14 1/2</sup>	
County	Ottawa	Twp.	<del>Polkton</del>	Fraction	1/4 NW 1/4 NE 1/4
Distance And Direction from Road Intersections		300 ft North 196 Espany		3 OWNER OF WELL: <u>Full Oil Co</u>	
Street address & City of Well Location		to Leonard Coopersville exchange		Address <u>Muskegon, Michigan</u>	
2 FORMATION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) <u>240</u> ft. Date of Completion <u>5-26-69</u>	
Clay		25'	25'	5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug	
Clay sand		10'	35'	<input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
Clay		125'	160'	6 USE: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Industry	
Clay sand		10'	170'	<input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial	
Clay Gravel		30'	200'	<input type="checkbox"/> Test Well <input type="checkbox"/>	
Limestone		15'	215'	7 CASING: Diam. Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below surface <u>7</u> ft.	
Sandstone		215'	240'	4 in. to <u>200</u> ft. Depth Weight _____ lbs./ft.	
				_____ in. to _____ ft. Depth Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				8 SCREEN: Type: _____ Dia.: _____	
				Slot/Gauze _____ Length _____	
				Set between _____ ft. and _____ ft.	
				Fittings: _____	
				9 STATIC WATER LEVEL <u>9</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 type="checkbox"/> In Approved Pit <input checked="" 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>85</u> feet Direction _____ Type _____	
				Well disinfected upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No	
				15 PUMP: Manufacturer's Name <u>Burke</u>	
				Model Number <u>105410P</u> HP <u>1</u>	
				Length of Drop Pipe <u>63</u> ft. capacity <u>25</u> G.P.M.	
				Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION:		
ADD'D INFO. BY DRILLER, NAME NO. RECORDED BY: MAINTAINED BY:			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
			J.M. Klyenbergs son		0493
			REGISTERED BUSINESS NAME		REGISTRATION NO.
			Address <u>Belmont 2000</u>		
			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.

Import ID:

<b>Tax No:</b> 70-05-34-100-003	<b>Permit No:</b> 07-70	<b>County:</b> Ottawa	<b>Township:</b> Polkton
<b>Well ID:</b> 70000007733		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 34
<b>Elevation:</b>		<b>Well Status:</b> Active	<b>WSSN:</b>
<b>Latitude:</b> 43.04493		<b>Source ID/Well No:</b>	
<b>Longitude:</b> -85.96053		<b>Distance and Direction from Road Intersection:</b> 6954 Garfield	
<b>Method of Collection:</b> GPS Std Positioning Svc SA Off		<b>Well Owner:</b> Wayne Bos	
		<b>Well Address:</b> 6954 Garfield Coopersville, MI 49404	<b>Owner Address:</b> 6954 Garfield Coopersville, MI 49404

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 242.00 ft.	<b>Date Completed:</b> 6/15/2007	<b>Pump Installation Date:</b> 6/15/2007	<b>HP:</b> 1.00
<b>Well Type:</b> Replacement	<b>Height:</b> 1.00 ft. above grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Steel - galvanized		<b>Model Number:</b> 18LS10412	<b>Pump Capacity:</b> 18 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 126.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b> 1.25 in.	<b>Drilling Record ID:</b>
		<b>Draw Down Seal Used:</b> Yes	
<b>Diameter:</b> 4.00 in. to 192.00 ft. depth		<b>Pressure Tank Installed:</b> Yes	
3.00 in. to 214.00 ft. depth		<b>Pressure Tank Type:</b> Diaphragm/bladder	
<b>Borehole:</b> 8.00 in. to 15.00 ft. depth		<b>Manufacturer:</b> Goulds	
4.00 in. to 242.00 ft. depth		<b>Model Number:</b> V-140	<b>Tank Capacity:</b> 45.0 Gallons
		<b>Pressure Relief Valve Installed:</b> Yes	

<b>Static Water Level:</b> 68.00 ft. Below Grade			
<b>Well Yield Test:</b>	<b>Yield Test Method:</b> Plunger		
1.00 hrs. at 40 GPM			
<b>Screen Installed:</b> No	<b>Intake:</b> Bedrock Well		
		<b>Formation Description</b>	<b>Thickness</b>
			<b>Depth to Bottom</b>
		Black Topsoil Sandy	1.00
		Brown Sand & Clay	3.00
		Yellow Clay	14.00
		Gray Clay	150.00
		Gray Clay & Gravel	24.00
		Limestone	19.00
		Gray Sandstone Water Bearing	31.00

<b>Well Grouted:</b> Yes	<b>Grouting Method:</b> Driven/dry grout	<b>Geology Remarks:</b>
<b>Grouting Material:</b> Bentonite dry granular	<b>Bags:</b> 5.00	
<b>Additives:</b> None	<b>Depth:</b> 4.00 ft. to 214.00 ft.	

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b> Gordon Hill
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<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Employee
<b>Type:</b> Sewage pump chamber	<b>Pump Installer:</b> Steven Hecksel
<b>Distance:</b> 70 ft.	
<b>Direction:</b> Southwest	

<b>Abandoned Well Plugged:</b> Yes	<b>Contractor Type:</b> Water Well Drilling Contractor	<b>Reg No:</b> 70-0337
	<b>Business Name:</b> Hecksel Bros. Well Drilling	
	<b>Business Address:</b> 9175 Cleveland, Nunica, MI, 49448	

<b>Water Well Contractor's Certification</b>	
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b> Used pump from old well
<b>Other Remarks:</b>



# Water Well And Pump Record



Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Import ID:

<b>Tax No:</b>	<b>Permit No:</b>	<b>County:</b> Ottawa			<b>Township:</b> Polkton		
<b>Well ID: 70000002131</b>  Elevation: 681 ft. Latitude: 43.054782 Longitude: -85.95808 Method of Collection: Interpolation-Map		<b>Town/Range:</b> 08N 14W	<b>Section:</b> 22	<b>Well Status:</b> Unknown	<b>WSSN:</b>	<b>Source ID/Well No:</b>	
		<b>Distance and Direction from Road Intersection:</b> .3MI S OF CLEVELAND ST & 68TH AVE;240'W OF 68TH AVE					
		<b>Well Owner:</b> VANWIENEN JR, WILLIAM					
<b>Well Address:</b> 15713 68TH AVE COOPERSVILLE, MI 49404				<b>Owner Address:</b> 15713 68TH AVE COOPERSVILLE, MI 49404			

<b>Drilling Method:</b> Cable Tool	<b>Well Use:</b> Household	<b>Pump Installed:</b> Yes	<b>Pump Installation Only:</b> No
<b>Well Depth:</b> 254.00 ft.	<b>Date Completed:</b> 8/21/1970	<b>Pump Installation Date:</b>	<b>HP:</b>
<b>Well Type:</b> Replacement	<b>Height:</b> 4.00 ft. above grade	<b>Manufacturer:</b> Goulds	<b>Pump Type:</b> Submersible
<b>Casing Type:</b> Unknown		<b>Model Number:</b>	<b>Pump Capacity:</b> 0 GPM
<b>Casing Joint:</b> Threaded & coupled		<b>Drop Pipe Length:</b> 102.00 ft.	<b>Pump Voltage:</b>
<b>Casing Fitting:</b> Drive shoe		<b>Drop Pipe Diameter:</b>	<b>Drilling Record ID:</b>
<b>Diameter:</b> 4.00 in. to 207.00 ft. depth		<b>Draw Down Seal Used:</b> No	
<b>Borehole:</b>		<b>Pressure Tank Installed:</b> No	
		<b>Pressure Relief Valve Installed:</b> No	

<b>Static Water Level:</b> 62.00 ft. Below Grade <b>Well Yield Test:</b> Pumping level 68.00 ft. after 5.00 hrs. at 45 GPM	<b>Yield Test Method:</b> Unknown	<b>Formation Description</b>	<b>Thickness</b>	<b>Depth to Bottom</b>
		Yellow Sand	3.00	3.00
		Red Clay	15.00	18.00
		Blue Clay	120.00	138.00
		Blue Clay W/Gravel	68.00	206.00
		Gray Shale	17.00	223.00
		Gray Sandstone Water Bearing	28.00	251.00
		No Lithology Information	3.00	254.00

<b>Screen Installed:</b> No	<b>Intake:</b> Unknown	<b>Geology Remarks:</b>

<b>Wellhead Completion:</b> Pitless adapter	<b>Drilling Machine Operator Name:</b>
<b>Nearest Source of Possible Contamination:</b>	<b>Employment:</b> Unknown
<b>Type</b>	
Animal yard/Feedlot	
<b>Distance</b>	
110 ft.	
<b>Direction</b>	
West	

<b>Abandoned Well Plugged:</b> No	<b>Contractor Type:</b> Unknown	<b>Reg No:</b> 70-0337
<b>Reason Not Plugged:</b> Unknown	<b>Business Name:</b>	
	<b>Business Address:</b>	

<b>Water Well Contractor's Certification</b>	
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.	
<b>Signature of Registered Contractor</b>	<b>Date</b>

<b>General Remarks:</b>
<b>Other Remarks:</b>

MAY 10 1971

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

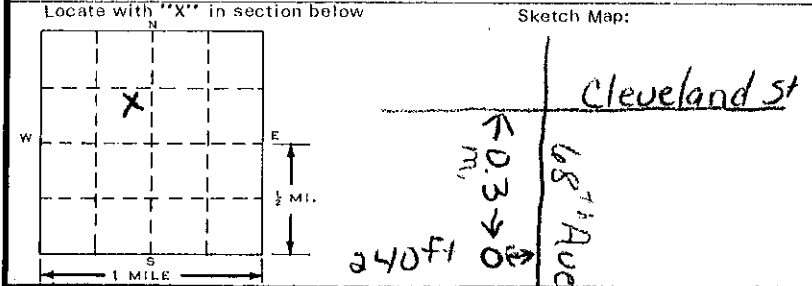
**1 LOCATION OF WELL**

County <b>Ottawa</b>	Township Name <b>Polkton</b>	Fraction <b>NESE NW</b>	Section Number <b>22</b>	Town Number <b>8 N/E.</b>	Range Number <b>14 E/W.</b>
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Distance And Direction from Road Intersections  
**0.3 Mile South of Cleveland St. & 68<sup>th</sup> Ave**  
**Then approx 340ft West of 68<sup>th</sup> Ave**

Street address & City of Well Location

**3 OWNER OF WELL:**  
**William Jan Wienen Jr**  
Address  
**15713 - 68<sup>th</sup> Ave Coopersville**



**4 WELL DEPTH:** (completed) Date of Completion  
**254 ft. 8-21-70**

**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. Surface **3 1/2** ft.  
**4** in. to **207** ft. Depth Weight **10.8** lbs./ft.  
**3** in. to **229** ft. Depth Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand - Yellow	3	3
Clay - Red Yellow	15	18
Clay - Blue	120	138
Clay - Blue - some gravel	68	206
Shale - gray	17	223
Sandstone - gray	31	251
waterbearing		

**8 SCREEN:**  
Type: **None** Dia.: \_\_\_\_\_  
Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
Set between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
Fittings: \_\_\_\_\_

**9 STATIC WATER LEVEL**  
**62** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**68** ft. after **5** hrs. pumping **45** 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  
**110** feet **W** Direction **Barnyard** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **Goulds**  
Model Number **UEL-10** HP **1** Volts **230**  
Length of Drop Pipe **103** ft. capacity **30** 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.  
**M. W. Hecksel Bros** **0337**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **18976 - 96<sup>th</sup> Ave Coopersville**  
Signed **Merle S. Hecksel** Date **3-10-71**  
AUTHORIZED REPRESENTATIVE