

WATER WELL AND PUMP RECORD

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

TAX NO: 53-005-025-005-10

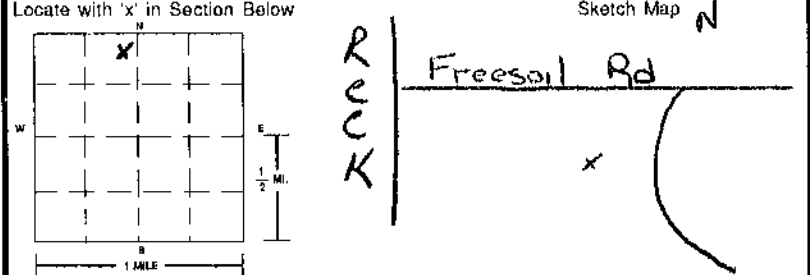
PERMIT NO: 53-599

1. LOCATION OF WELL
County Mason

Township Name Freesoil Fraction NE 1/4 NW 1/4 Section No. 25 Town No. 20N Range No. 16W

Distance and Direction from Road Intersection
1/4 mile East, 300 feet South of the intersection of Reek and Freesoil Rds

Street Address & City of Well Location



3. OWNER OF WELL
Address Harold McCormick
4241 E. Freesoil Rd
Freesoil, MI 49411
Address Same as Well Location Yes No

4. WELL DEPTH: 94 ft. Date Completed 8/31/99 New Well Replacement Well

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

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

7. CASING: Steel Threaded Plastic Welded
 Other
Diameter: 4 in. to 90 ft. depth
Weight: 11 lbs./ft.
BORE HOLE: Drive Shoe Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Orange Sand	3	3
Fine Coarse Tan Sand	21	24
Sand/Trade Clay	2	26
Sand/Gravel	3	29
Fine Coarse Sand	10	39
Sand/Gravel	55	94

8. SCREEN: Not Installed Gravel-Packed
Type Stainless Steel Diameter 4" Nom
Slot/Gauge 10 Length: 4'
Set Between 90 ft and 94 ft.
FITTINGS: K-Packer Bremer Check
 Blank Above Screen 1 ft. Other Leadless Packer

9. STATIC WATER LEVEL: 67 ft. Below Land Surface Flowing

10. PUMPING LEVEL: Below Land Surface
85 ft. After 1 hrs. Pumping at 50+ G.P.M. w/r/c
 Plunger Bailor Air Test Pump

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

12. WELL GROUTED? No Yes From Remarks ft.
 Neat Cement Bentonite Other
No. of Bags 2314 Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
Type Septic Distance 65 ft. Direction East
Type Distance ft. Direction

USE A 2ND SHEET IF NEEDED
15. ABANDONED WELL PLUGGED? Yes No
Casing Diameter in. Depth ft.
PLUGGING MATERIAL: Neat Cement Concrete Grout Bentonite Chips
 Cement/Bentonite Slurry Casing Removed? Yes No

14. PUMP: Not Installed Pump Installation Only
Manufacturer's Name Goulds
Model Number 10GS07412 HP 3/4 Volts 230
Length of Drop Pipe 80 ft. Capacity G.P.M.
TYPE: Submersible Jet Other
PRESSURE TANK:
Manufacturer's Name AMTROL
Model Number WXT 203 Capacity 32.0 Gallons 9.9

16. REMARKS: (Elevation, Source of Data, etc.)
Bentonite was maintained around the well casing during the entire drilling process

17. DRILLING MACHINE OPERATOR:
 Employee Subcontractor
Name DONALD WICKLUND
MICHAEL STALLARD - Helper

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.
Murphy's Well Drilling 1659
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 6035 Iris Rd Ludington, MI
Signed Thomas J. Murphy Date 10-29-99
AUTHORIZED REPRESENTATIVE

RECEIVED
NOV 05 1999
D.H.D. #10
RECEIVED
DEC 07 1999

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:

13313

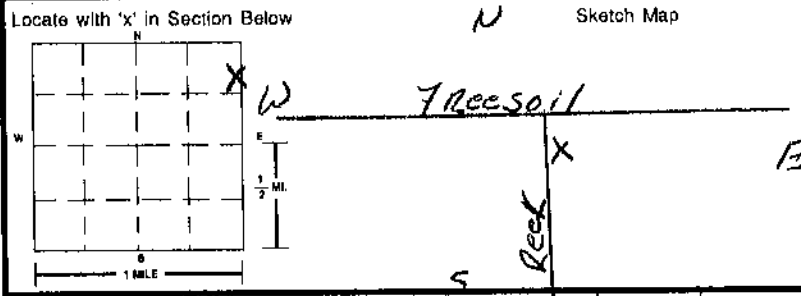
TAX NO:

1. LOCATION OF WELL

County Mason Township Name Free Soil Fraction NW 1/4 NE 1/4 NW 1/4 Section No. 25 Town No. 20 N Range No. 16 W

Distance and Direction from Road Intersection
1/4 mi south on Reek off of Free Soil Rd on east side
 Street Address & City of Well Location

3. OWNER OF WELL
 Address Eric Head
744 S Hawthorne Westland, MI 48186
 Address Same as Well Location Yes No



4. WELL DEPTH: 116 ft. Date Completed 2/20/97 New Well Replacement Well

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

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

7. CASING: Steel Threaded Welded
 Plastic Other
 Height: Above/Below Surface: 1 ft

Diameter: 5 in. to 112 depth 3 in. to 116 depth Weight: 2.59 lbs./ft.
 BOREHOLE: Diameter: _____ in. to _____ ft. depth
 Drive Shoe Shale Packer

8. SCREEN: Not Installed Gravel-Packed
 Type Stainless Diameter 3
 Slot/Gauze 7 Length: 43
 Set Between 112 ft. and 116 ft.
 FITTINGS: K-Packer Bremer Check
 Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: 81 ft. Below Land Surface Flowing

10. PUMPING LEVEL: Below Land Surface 89 ft. After 2 hrs. Pumping at 13 G.P.M.
 Plunger Bailer Air Test Pump

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

12. WELL GROUTED? No Yes From 0 to 108 ft.
 Neat Cement Bentonite Other _____
 No. of Bags 04 Additives Quickgrout

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:
 Type Septic Distance 90 ft. Direction E
 Type _____ Distance _____ ft. Direction _____

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Dry Sand, Gravel + Stone</u>	<u>81</u>	<u>81</u>
<u>Watersand</u>	<u>35</u>	<u>116</u>

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AUG 26 1997
MANISTEE-MASON DISTRICT HEALTH DEPARTMENT

Pump Number 977052

USE A 2ND SHEET IF NEEDED

14. PUMP: Not Installed Pump Installation Only
 Manufacturer's Name Flint & Walling
 Model Number 4F10005305 HP 1/2 Volts 230
 Length of Drop Pipe 100 ft. Capacity 12 G.P.M.
 TYPE: Submersible Jet Other _____
 PRESSURE TANK:
 Manufacturer's Name Well-X-trol
 Model Number WX 250 US Capacity 44 Gallons

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

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

17. DRILLING MACHINE OPERATOR:
 Employee Subcontractor
 Name John / Gary

15. WATER WELL CONTRACTOR'S CERTIFICATION:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Lehrbass Well Drilling 53 1930
REGISTERED BUSINESS NAME REGISTRATION NO.
 Address 499 W US 10 Scottville MI
 Signed _____ Date _____
AUTHORIZED REPRESENTATIVE

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

PERMIT NO:
13612

1. LOCATION OF WELL
County **MASON**

Township Name **FREE SOIL**

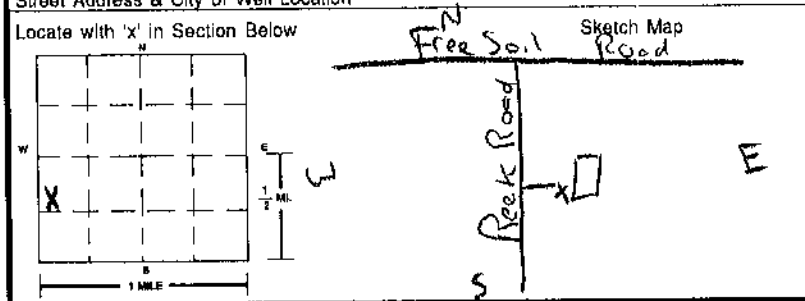
Fraction **SW 1/4 NW 1/4 SW 1/4**

Section No. **25**

Town No. **20N**

Range No. **16W**

Distance and Direction from Road Intersection
**On the east side of Reek Road
3/4 South of Free Soil Road**



3. OWNER OF WELL
Address **Richard Hollanbeck
N. Reek Road
Free Soil, MI 49411**
Address Same as Well Location Yes No

4. WELL DEPTH: **113' 6"** ft. Date Completed **6/3/97**
 New Well Replacement Well

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

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

7. CASING: Steel Threaded Plastic Welded Other
Height: Above/Below Surface: **1** ft.
Diameter: **4** in. to **108** ft. depth Weight: **11** lbs./ft.
BORE HOLE: **N/A** Drive Shoe Shale Packer
Diameter: _____ in. to _____ ft. depth

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Red Clay	14	14
Hard Cemented Gravel, Red Clay	2	16
Dry Sand, Stones, Trace of Red Clay		
Clay	7	23
Cemented Stones, Red Clay & Sand		
Sand	17	40
Hard Red Clay, Stones, Sand	10	50
Coarse Dry Sand & Stones	33	83
Coarse Water Sand & Stones	30	113
Dark Coarse Water Sand & Stones		
113'		

8. SCREEN: Not Installed Gravel-Packed
Type **Stainless Steel** Diameter **4"**
Slot **10** Length: **5'**
Set Between **108' 6"** ft. and **113' 6"** ft.
FITTINGS: X-Packer Bremer Check Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL: **82** ft. Below Land Surface Flowing

10. PUMPING LEVEL: Below Land Surface **82** ft. After **1/2** hrs. Pumping at **10** G.P.M.
 Plunger Bailer Air Test Pump

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

12. WELL GROUTED? No Yes From **0** to **112** ft.
 Neat Cement Bentonite Other _____
No. of Bags **3** Additives _____

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

14. PUMP: Not Installed Pump Installation Only
Manufacturer's Name **STA-RITE**
Model Number **15SP4E02H** HP **1** Volts **230**
Length of Drop Pipe **99'** Capacity **15** G.P.M.
TYPE: Submersible Jet Other _____
PRESSURE TANK:
Manufacturer's Name **Well-X-Trol**
Model Number **WX250UG** Capacity _____ Gallons **44**

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JUN 24 1997
MANISTEE-MASON DISTRICT HEALTH DEPARTMENT

15. ABANDONED WELL PLUGGED? Yes No **N/A**
Casing Diameter **6** in. Depth _____ ft.
PLUGGING MATERIAL: Neat Cement Bentonite Slurry
 Cement/Bentonite Slurry Concrete Grout Bentonite Chips
No. of Bags _____ Casing Removed? Yes No

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

17. DRILLING MACHINE OPERATOR:
 Employee Subcontractor
Name **Randy Smith**

15. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Cameron Brothers, Inc. 1960
REGISTERED BUSINESS NAME
Address **8736 N. U.S. 31 Free Soil, MI 49411** REGISTRATION NO.
Signed **Dan Cameron** Date **6-13-97**
AUTHORIZED REPRESENTATIVE

SEP 29 1978

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		Fraction		Section Number		Town Number		Range Number			
County Mason		Township Name Freesoil		¼ ¼ ¼		25		20N N/S.		16W E/W.	
Distance And Direction from Road Intersections Just West of Schoenherr Road on E. Freesoil Road on South Side Freesoil, Mich.											
Street address & City of Well Location Freesoil, Mich.											
Locate with "X" in section below											
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM					
Dry Sand				5		5					
Red Clay				12		17					
Coarse Sand & Gravel				26		43					
Coarse Water Sand				11		54					
USE A 2ND SHEET IF NEEDED											
16 Remarks, elevation, source of data, etc. ADDED INFO BY DRILLER, ITEM NO. *CORRECTED BY ST **ADDITION BY ELEVATION FT. TO ROCK				3 OWNER OF WELL: Robert Shereda, Jr. Address Rt. #2 Freesoil, Mich. 4 WELL DEPTH: (completed) 54½ ft. Date of Completion 6-6-78 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 7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. 2 in. to 50½ ft. Depth m. to ft. Depth Height: Above XXX Surface 4 ft. Weight 3.75 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
				8 SCREEN: Type: Johnson S.S. Dia.: 1½" Slot/Gauze 7 Slot Length 4 Ft. Set between 50½ ft. and 54½ ft. Fittings: Standard							
				9 STATIC WATER LEVEL 43½ 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 _____ Other _____							
				12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input 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 _____ feet Direction _____ Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
				15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name Jaouzzi Model Number _____ HP _____ Volts _____ Length of Drop Pipe 41 ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating							
				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. Cameron Bros. Inc. 0405 REGISTERED BUSINESS NAME REGISTRATION NO. Address Rt. #2 Freesoil, Mich. Signed <i>[Signature]</i> Date 9-8-78 AUTHORIZED REPRESENTATIVE							