

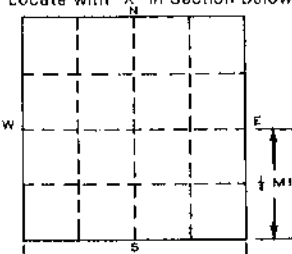


SEP 9 1980 WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL		
County Tuscola	Township Name Vassar	Fraction NE 1/4 SW 1/4
		Section Number 6
		Town Number 11 N4
		Range Number 8 E4
Distance And Direction from Road Intersections .5 miles East of Hess Rd. on the South side of Saginaw Rd.		
Street address & City of Well Location: 4535 Saginaw Rd.		
Locate with "X" in section below		Sketch Map:
		3 OWNER OF WELL: Samuel Cauldwell Address: 4535 Saginaw Rd. Vassar, Mich. 48768
		4 WELL DEPTH: (completed) Date of Completion 105 ft. 6-16-80
		5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> 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"/>
		7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. 2 in. to 8 1/2 ft. Depth Height: Above/Below Surface _____ ft. Weight _____ lbs./ft. Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/>
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Quick Sand	8	8
Clay with 2 thin layers of Gravel	75	83
Coarse crystal Sand	22	105
Rock		
		8 SCREEN: Type: _____ Dia.: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. Fittings: _____
		9 STATIC WATER LEVEL 14 ft. below land surface
		10 PUMPING LEVEL below land surface 63 air ft. after 1 hrs. pumping 10 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.
		11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____
		12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade
		13 Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From 1 ft. to 8 1/2 ft.
		14 Nearest Source of possible contamination 70 feet SE Direction Sewage Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name: Aerometer Model Number _____ HP 1/2 Volts 115 Length of Drop Pipe 42 ft. capacity 5 G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating
USE A 2ND SHEET IF NEEDED		
16 Remarks, elevation, source of data, etc. Shallow Well hook up Deep Well Pitless coded line brought pp under crawl space ADD'D INFO BY WRITER, ITEM 100 *CORRECTED BY **ADDITION BY		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Ed Birkmeier Well Drilling Ltd. 1607 REGISTERED BUSINESS NAME REGISTRATION NO. Address 10707 Easton Rd. New Lothrop, Mich. 48460 Signed <i>Edward Birkmeier</i> Date 9-11-80 AUTHORIZED REPRESENTATIVE

ELEVATION
DEPTH TO ROCK

1 LOCATION OF WELL			3 OWNER OF WELL					
County Tuscola	Township Name Vassar	Fraction 1/4 1/4 1/4	Section Number 9	Town Number 11N	Range Number 01E/W			
Distance And Direction From Road Intersection 4355 S. Vassar Road			Address Edward Elmendorf 4355 S. Vassar Road Vassar, Michigan					
Street Address & City of Well Location			Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Locate with "X" in Section Below			Date of Completion Jan. 22, 1987					
Sketch Map: 			4 WELL DEPTH: (completed) 200 ft.					
2 FORMATION DESCRIPTION			5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug					
			<input type="checkbox"/> Hollow rod <input type="checkbox"/> 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: <input type="checkbox"/> Steel <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Welded			Height: Above/Below Surface 2 ft.		
Clay			5 in. to 135 ft. depth					
Shale			Grouted Drill Hole Diameter					
Limestone			_____ in. to _____ ft. depth					
Sandstone			_____ in. to _____ ft. depth					
THICKNESS OF STRATUM			Weight SDR 17 lbs./ft.					
DEPTH TO BOTTOM OF STRATUM			Drive Shoe <input type="checkbox"/> Yes <input type="checkbox"/> No					
			8 SCREEN: <input 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"/> Bremer Check					
			<input type="checkbox"/> Blank above screen _____ ft. Other _____					
			9 STATIC WATER LEVEL: 55 ft. below land surface <input type="checkbox"/> Flow					
			10 PUMPING LEVEL: below land surface					
			200 ft. after 1 hrs pumping at 25 G.P.M.					
			_____ ft. after _____ hrs. pumping at _____ G.P.M.					
			11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade					
			<input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit					
			12 WELL GROUTED? <input 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 _____					
			13 Nearest source of possible contamination					
			Type Septic Distance 75 ft. Direction W					
			Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
			14 PUMP: <input type="checkbox"/> Not installed <input type="checkbox"/> Pump Installation Only					
			Manufacturer's name Pait					
			Model number 5DL210 HP .5 volts 230					
			Length of Drop Pipe 95 ft. capacity 10 G.P.M.					
			TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet _____					
			PRESSURE TANK:					
			Manufacturer's name Xetrol					
			Model number WX 203 Capacity 50 Gallons					

USE A 2ND SHEET IF NEEDED

15. Remarks, elevation, source of data, etc.
*RECEIVED
Mich. Dept. of Public Health
APR 10 1987
Bureau of Environmental & Occupational Health*

16. WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
William Cragg and Son 1291
REGISTERED BUSINESS NAME REGISTRATION NO.
Address **5070 Shreeves, Fairgrove, Mich. 48733**
Signed *William Cragg* Date **Jan. 23, 1987**
AUTHORIZED REPRESENTATIVE

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD

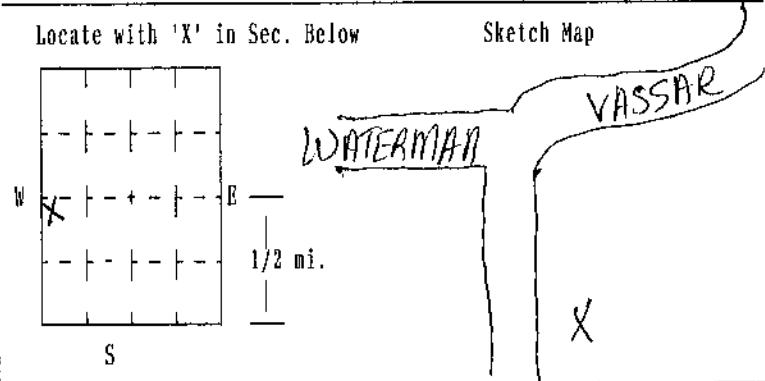
TAX NO:

PERMIT NO: 002681 Page of 1 1

1. LOCATION OF WELL		Fraction	Section No	Town No	Range Number
County TUSCOLA	Township Name VASSAR	SW 1/4 NW 1/4 NW 1/4	6	11 N	8 E

Distance And Direction From Road Intersection
3/10 MILE SOUTH OF WATERMAN ON VASSAR EAST SIDE
Well Addr: 3401 VASSAR RD VASSAR MI 48768

3. Owner of Well CARL SAFFORD
Address 3401 VASSAR RD
VASSAR MI 48768
Address Same as Well Location? YKS



4. WELL DEPTH 183 ft. Date Compl 02/11/98 This is a: REPLACEMENT

5. EQUIPMENT USED: ROTARY
6. WELL USE: HOUSEHOLD

7. CASING Type: PLASTIC Connection: SOLVENT
Diam. 5 in. to 137 ft. Height ABOVE Surface 1 ft
Weight SDR21 lb./ft.
BORE HOLE: 8 1/2 in. to 137 ft. Drive Shoe NO
Shale Packer YES

Formation Description	Thickness	Depth
SAND	6	6
BROWN CLAY	16	22
GRAY CLAY & STONE	98	120
SANDROCK & SHALE	10	130
SANDROCK	21	151
WHITE LIMESTONE	17	168
GREEN SHALE	3	171
SANDROCK	12	183

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MAR 24 1998

8. Screen Type: _____ Diam: _____ [X] Not Inst.
Length: _____
Set Between _____ ft. and _____ ft.
Fittings: _____ [] Blank above scrn: _____ ft

9. Static Level: 63 ft. Flow: [N]

10. Pumping Level below land surface:
83 ft. after 1 hrs. @ 30 GPM
[] Plunger [] Bailer [X] Air [] Test Pump

11. Well Head Completion: PITLESS ADAPTER

12. Grouted from 0 to 137 ft Material: DENSEAL
No. of Bags 7 bags Additives: EZMUD

13. Nearest source of possible contamination:
Type: SEPTIC TANK Distance: 80 ft. Dir: SOUTH
Type: FUEL TANK Distance: 50 ft. Dir: SE

15. Abandoned Well Plugged? YES
Casing Diameter 3 in. Depth 140 ft.
Plugging Material: CEMENT/BENSEAL
No. of Bags 4-4 Casing Removed? N

14. Pump: [] Not Installed [] Installation Only
Manufacturer's Name: MYERS
Model: 2ST52-12 HP: 0.5 Voltage: 220
Drop pipe: 100 ft. Capacity: 12 GPM
Pump type: ~~SO~~-SUBMERSIB
Pressure Tank Manufacturer's Name: WELL X-TROL
Model: 203 Capacity: 80 Gal.

16. Remarks, elevation, source of data, etc.
PLAT BOOK

17. Drilling Machine Operator: [] Employee [] Subcontractor
Name ROBERT TRAVER

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Registered Bus. Name TRAVER WELL DRILLING 1865
Business Address 7528 Frankenmuth Rd. Vassar MI 48768

GW-2-228 9/93
Authority: Act 368 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

Signed Robert Traver 02/20/98
Authorized Representative Date

Geological Survey Copy

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

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PERMIT NUMBER

1 LOCATION OF WELL			3 OWNER OF WELL:																				
County TUSCOLA	Township Name VASSAR	Fraction NE 1/4 SE 1/4 SE 1/4	Section Number 6	Town Number 11 (NS)	Range Number 8 (BW)																		
Distance And Direction From Road Intersection 1/2 mi S. OF WATERMAN ON KIRK W. SIDE			Address VASSAR MI 48768																				
Street Address & City of Well Location			Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				
Locate with "X" in Section Below			4 WELL DEPTH: Date Completed MO. DAY YEAR <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Replacement Wall																				
Sketch Map: 			110 FT. 12 14 88																				
			5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>																				
2 FORMATION DESCRIPTION <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">FORMATION DESCRIPTION</th> <th style="width: 20%;">THICKNESS OF STRATUM</th> <th style="width: 20%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td>YELLOW SAND</td> <td>8'</td> <td>8'</td> </tr> <tr> <td>SOFT CLAY</td> <td>10'</td> <td>18'</td> </tr> <tr> <td>STONEY CLAY</td> <td>40'</td> <td>58'</td> </tr> <tr> <td>SHALE</td> <td>22'</td> <td>80'</td> </tr> <tr> <td>SAND ROCK</td> <td>30'</td> <td>110'</td> </tr> </tbody> </table>			FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	YELLOW SAND	8'	8'	SOFT CLAY	10'	18'	STONEY CLAY	40'	58'	SHALE	22'	80'	SAND ROCK	30'	110'	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"/>		
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13 Nearest source of possible contamination Type SEPTIC Distance 75 ft. Direction NORTH Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							
14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name TRAIT Model number 5AL210T HP 1/2 Volts 220 Length of Drop Pipe 42 ft. capacity 10 G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: Manufacturer's name WELL XTROL Model number 202 Capacity 40 Gallons																							
15. Remarks, elevation, source of data, etc. PIAT BOOK			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. TRAYER WELL DRILLING 1265 REGISTERED BUSINESS NAME REGISTRATION NO. Address 7538 FRANKENMUTH RD VASSAR Signed Robert Trayer Date 12-14-88 AUTHORIZED REPRESENTATIVE																				
17. Rig Operator's Name: ROBERT TRAYER																							

RECEIVED
 Mich. Dept. of Public Health
 FILED
 1988

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

