MAY 2 1977	WATER W		
LOCATION OF WELL Township Name		Fraction	
		1	14 14 17 36N N/S. 1E E/W.
Cheboygan Grant Distance And Direction from Road Intersections		14	3 OWNER OF WELL:
NE. corner of Mann Rd. and Abbey	Rđ.		3 OWNER OF WELL: Charles P. Baker  Address Abbey Rd. Cheboygan, Ni. 49721
Street address & City of Well Location  Locate with "X" in section below S	iketch Map;		4 WELL DEPTH: (completed) Date of Completion
N I			36 ft. 9/7/76
			5 Cable tool X Rotary Driven Dug
			Hollow rod Jetted Bored
w			6 USE: Domestic Public Supply Industry
		•	Irrigation Air Conditioning Commercial
			Test Well 7 CASING: Threaded Welded Height; Above *** 7 CASING: Threaded Welded Height; Above ****
			Diam. Surface 1 ft.
1 MILE	THICKNESS	рертн то	4_ in. to 31_ ft. Depth Weight 11.00 s./ft.
2 FORMATION	OF STRATUM	BOTTOM OF	in, toft. Dopth   Drive Shoe? Yes No
			8 SCREEN:
ed. to coarse gravel	7	7	Type: wire wound Dia.: 4" Slowwww 12 Length 8 x 70
			Sloi <b>xxxx</b> e 12 Lengti48 x 70
ard pan	15	22	Set between 32 ft. and 36 ft.
			Fittings:
ine sand	4	26	Std R P w/18" riser  9 STATIC WATER LEVEL
	,,,	47	ft, below land surface
ard <b>gang</b> pan	5	31	10 PUMPING LEVEL below land surface
	5	36	ft. after hrs. pumping 10 g.p.m.
led. to coarse sand	<u></u>		<del>-</del>
			ft, afterhrs. pumpingg.p.m.
		(	11) WATER QUALITY in Parts Per Million:
			Iron (Fe) unk Chlorides (CI) unk
			New Te Oalbor
		<u></u>	Hardness UNK Other  12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter 12" Above Grade
		<del> </del>	13 Well Grouted? K Yes No
			Neat Cement Bentonite
		<del>                                     </del>	Depth: Fromft. toft.
			14 Nearest Source of possible contamination
			50+ feet NE Direction septic Type
		ļ <u></u>	Well disinfected upon completion Yes No.
			La ivot material
			Manufacturer's Name Goulds  Model Number 7EH03422 HP1/3 Volts 230
·			Length of Drop Pipe 27 ft. capacit 10+ G.P.M.
			Type: X Submersible
			Jet Reciprocating
USE A 2ND SHEET IF NEEDED		<u> </u>	
16 Remarks, elevation, source of data, etc.	···	17 WATER	R WELL CONTRACTOR'S CERTIFICATION: BIT was drilled under my jurisdiction and this report is true
ADDED INFO BY DRILLER, ITEM NO.		to the	best of my knowledge and belief.
*COMPERTED BY		RAMS	BY WELL DRILLING, INC. #0387 GISTERED BUSINESS NAME REGISTRATION NO.
**ADDITION BY		-	
ELEVATION			S ROUTE #4 CHEBOYGAN MI. 49721
DEPTH TO ROCK		Sinned	AUTHORIZED REPRESENTATIVE Date 9/10/76
D67d 100M (Rev. 12-68)		orgined	AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.			
FEB 0 9 1981	\	WELL DE	
	WATER \ ACT 29		
1 LOCATION OF WELL County Township Name		Fraction	Section Number   Town Number   Range Number
CHEBOYGAN GRANT		1/4	1/4 1/4 17 36N N/S. 1E E/W.
Distance And Direction from Road Intersections  14 MILE SOF ABBEY RD C			3 OWNER OF WELL: H. AUBURT
GAYNOR ROAD	NES	DE	Address CHEBOYGAN MI
Street address & City of Well Location			, , , , , , , , , , , , , , , , , , , ,
Educate with X in Section Below Sketc	h Map:		4 WELL DEPTH: (completed) Date of Completion 378 ft. 14 Jan 1981
			5 Cable tool Rotary Driven Dug
WE			Hollowrod Jetted Bored  6 USE: Domestic Public Supply Industry
			6 USE: Domestic Public Supply Industry    Irrigation   Air Conditioning   Commercial
			Test Well
5			7 CASING: Threaded Wetded Height: Above/Below Diam.
2 FORMATION	THICKNESS OF	DEPTH TO BOTTOM OF	4 in, to 375 ft. Depth Weight 1.00 lbs./ft.
	STRATUM	STRATUM	in, to ft. Depth Drive Shoe? Yes No 8 SCREEN:
BLACK DIRT	/	/	- (1)(1) - 4
CLAY	4	5	Slot/GadZe 10 Length 48 x 70 Set betwee 74 ft, and 78 ft.
CLAY	'		
HARD PAN	148	153	STD RP W/18" RISER  9 STATIC WATER LEVEL
GRAVEL	2	155	STATIC WATER LEVEL  LOW ft. below land surface
	111	7,5	10 PUMPING LEVEL below land surface
HARD PAN	64	219	ft. after hrs. pumping ft. p.m.
HARD ROCK/HARD PAN	477	246	ft, afterhrs.pumpingg.p.m.
HARD PAN, CLAY STREAKS		1 '	11 WATER QUALITY in Parts Per Million:    Iron (Fe) Chlorides (CI)
THING THE STREET			Chlorides (Ci)
HARD PAN	12	287	Hardness Other  12 WELL HEAD COMPLETION: In Approved Pit
LOOSE HARD PAN	4	291	In Approved Pit   In Approved Pit   12" Above Grade
HARD ROCK		294	13 Well Grouted Y Yes No
	<u> 3_</u>	<u> </u>	Neat Cement Bentoniteft.  Depth: Fromft. to Bft.
LOOSE HARD PAN	3	297	14 Nearest Source of possible contamination
TRUEN CLAY	74	371	Well disinfected upon completion Yes No
FINE SAND	· · ·	<del>                                     </del>	15 PUMP: Not installed
FINE SAND		378	Manufacturer's Name GOUADS
			Model Number $\frac{164}{1000}$ HP/3 Volts $\frac{230}{1000}$ Length of Drop Pipe $\frac{60}{1000}$ ft. capacit/ $\frac{07}{1000}$ G.P.M.
			Type: 4 Submersible
			Jet Reciprocating
USE A 2ND SHEET IF NEEDED			
16 Remarks, elevation, source of data, etc.			WELL CONTRACTOR'S CERTIFICATION: II was drilled under my jurisdiction and this report is true
*CORRECTED BY DNILLER, ITEM NU		/othe b	est of my knowledge and belief.  SBY WELL DRILLING INC 0387 ISTERED BUSINESS NAME REGISTRATION NO.
**ADDITION BY		REG	STERED BUSINESS NAME REGISTRATION NO.

ELEVATION DEPTH TO ROCK

D67d

100M (Rev. 12-68)

MAY 2 1977	,		
MAY 2 1977  1 LOCATION OF WELL	WATER V	WELL R	ECORD MICHIGAN DEPARTMENT OF PUBLIC HEALTH
County Township Name		Fracti	
Cheboygan Grant		,	4 14 14 17 36N N/S. 1F E/W.
Distance And Direction from Road Intersections  ignite E. of Gaynor Rd on the E. si	de of Ah	hev Rr	3 OWNER OF WELL: Mr. Basil Miller
	710	<i>50</i> 7	Cheboygan, Mi. 49721
Street address & City of Well Location  Locate with "X" in section below Sketc	h Map;		4 WELL DEPTH: (completed) Date of Completion
1 The state of the	i iliabi		227 ft. Sept. 13, 1976
			5 Cable tool X Rotary Driven Dug
w E			Hollow rod Jetted Bored
			6 USE: X Domestic Public Supply Industry
			☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
			7 CASING: Threaded Welded Height: Above/WWW.
1 MILE			Surfaceft,
2 FORMATION	THICKNESS OF STRATUM	DEPTH T	of the to the term weight weight
	SIRATUM	STRATU	Min. toft. Depth   Drive Shoe? Yes 🗗 No 8 SCREEN:
clay	6	6	Type: wire wound Dia.: 4"
	_		Slot <b>XXXX 10</b> Length 48 x 70
coarse sand and gravel	2	8	Set between 224 ft. and 227 ft.
hard pan	15	23	Fittings: STd R P w/18" riser
			9 STATIC WATER LEVEL
med. sand and gravel	3	26	flow ft, below land surface
1	23	40	10 PUMPING LEVEL below land surface  ft. after hrs. pumping 15 g.p.m.
hard pan	23	49	It. arter rrs. pumping g.p.m.
fine to med. sand	2	5.1	ft. afterhrs. pumping g.p.m.
_			11 WATER QUALITY in Parts Per Million:
hard pan	261/2	77왕	Iron (Fe) nnk Chlorides (CI) unk
sand and gravel w/clay	54	83	Hardness <b>unk</b> Other
			12 WELL HEAD COMPLETION: In Approved Pit
hard pan	134	217	Pitless Adapter 12" Above Grade  13 Well Grouted? X Yes No
sand and gravel w/streaks of clay	10	227	Well Grouted?   Yes   No   Neat Cement   Bentonite
Same and graver wystrauns or cray	40		Depth: From T ft. to B ft.
			14 Nearest Source of possible contamination
			50+ feet NW Direction septic Type Well disinfected upon completion Y Yes No
			15 PUMP: Not installed
			Manufacturer's Name
			Model Number HPVolts
			Length of Drop Pipeft, capacityG.P.M.
			Type: [_] Submersible
USE A 2ND SHEET IF NEEDED	<u> </u>	4 77 141 4	TO WELL CONTRACTORIO CERTIFICATION
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRILLER, ITEM NO.		This	ER WELL CONTRACTOR'S CERTIFICATION: well was drilled under my jurisdiction and this report is true
and the same of th			best of my knowledge and belief.  MSBY WELL DRILLING, INC. #0387
• *ADDITION BY		RI	EGISTERED BUSINESS NAME REGISTRATION NO.
ELEVATION CONTROL CONT		Addre	ss ROUTE #4 CHEBOYGAN, MI. XXE 49721
DEPTH TO ROCK		e:	Bristy Barrely Cant 14 2076
D67d 100M (Rev. 12-68)		Signe	Authorized Representative Gent 14, 1976

FEB 0 9 1981	WATER \				MICHIGAN DEPA OF	
1 LOCATION OF WELL					PUBLIČ HEA	LTH
County Township Name  CHEBOYEAN GRANT		Fraction 1/4	1/4 1/4		Town Number ろらん N/S.	Range Number
Distance And Direction from Road Intersections 12 MILE EOF GAYNOR ROAD	SAL AL		3 OWNER OF V	WELL:		)
S ABBEY KOAD	0,0 70.	211774	Address	TAKE DO		
Street address & City of Well Location				CHEBUYG	•	
Locale with X in Section below Sketc	:h Map:	·			Date of Completion	
		!	5 Cable to	ool Rota	ıry 🔲 Drive	n Dug
<b>│</b> ₩ ├				mestic Publ		Industry
			∏ Irrig ∏Test	gation 🔲 Air t Well 🗍	Conditioning [	Commercial
					d Height: Abo	
1 MILE	THICKNESS	DEPTH TO	4 in. to	249 ft. Dept	Surface	
2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	1	ft, Dept	I	
SOFT STICKY CLAY	6	ريكر			_ Dia.:	
HARD PAN	20	26	Stot∕ <del>Gauzo</del> .	12 248 ft. and	Length <u>48 7</u>	-70
7:	ef		_			er D
HARD PAN WITH KOCKS	<del>  9</del>	30	9 STATIC WAT	ER LEVEL	118"RIS	
MARD PAN	7.3	103	FLOW	ft, below land su EVEL below land	irface 3-9	Jon
MED, GRAVEL	a	105		ft. after hrs.	pumping 35	g.p.m.
HARD PAN	70	175			pumping	g.p.m.
FINE-MED GRAVEN	2/2	1772	IX - J	ALITY in Parts Per	Million: orides (CI)	
HARD PAN	36	213/2	Hardness _	Othe	er	
FINE-MED. SANDE GRAVEL	1/2	215	l		In Approved P	
HARD PAN	3	218	13 Well Grout		)	
			Depth: Fro	omft.	to <u>B</u> tt.	
FINE MED SAND & GRAVEL	2	330	14 Nearest Soil	urce of possible o	ion <u>Sewi</u>	Type
FINE SAND & GRAVEL WILLAY	2	222	Well disinfo	ected upon compl	etion Ves 🔲 1	
FINE SAND & GRAVEL	2	226	15 PUMP:	er's Name	Not installed	
SAND & GRAVEL WITH CLAY	2	228	Model Num	ber	HP Volt	
		200 -20 -4	1	Submersible	t, capacity(	i•l*•M• 
FINE SANDS GRAVEN	25	253+		Jet [	Reciprocating	
USE A 2ND SHEET IF NEEDED		17 10 755	MELL CONTR	OTOBIO OFFI	ICATION:	
16 Remarks, elevation, source of data, etc.  ADDED INFO BY ORILLER, 176% (N)		fais wel	I was drilled u	ACTOR'S CERTIF nder my jurisdicti adae and Salief	on and this report	is true
*CORRECTED BY *ADDITION BY		RAM	SEY USTERED BUSINES	S NAME	REGISTR	<u> ク387</u> ATION NO.
ELEVATION		Address	- 1 <sup>-1</sup>	ygan	/	
DEPTH TO HINK		S:	& For	Soller.	Date <u>9-</u>	4-80
100M (Pov. 12-69)		Signed	AUTHORIZED RE	PRESENTATIVE	рате /	· · · · · · · · · · · · · · · · · · ·

GEOLOGICAL SONVET SAWS EL ANT			
JUN 15 1981	WATER W	/ELL REC	5 Ø OF
1 LOCATION OF WELL: Township Name	; <b>:</b>	Fraction	PUBLIC HEALTH Section Number   Town Number   Range Number
Cheboygan Grant Distance And Direction from Road Intersections	<u> </u>	1	3 W SE 1/4 17 36 N/S. 1 E/W.
om Abbey Rd. off Black River	Rd.		Mike Straton
•			Address Abbry Rd. Cheboygan, Michigan 49721
Street address & City of Well Location  Locate with "X" in section below / Sketo	ch Map:		4 WELL DEPTH: (completed) Date of Completion
A	BBC		130 ft. 4-15-81  5 Cable tool X Rotary Driven Dug
W			Cable tool X Rotary Driven Dug
*	为		6 USE: Domestic Public Supply Industry
R. W. 6		+40	☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
X X	$\mathcal{M}_{\mathcal{A}}$	1	7 CASING: Threaded X Welded Height: Above/Below
1 MILE	THICKNESS	DEPTH TO	Surface 1 ft.  4 in. to 126 ft. Depth Weight 11 lbs./4t.
2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	in, toft, Depth Drive Shae? Yes 🗙 No
Clay	125	125	8 SCREEN:
Clay			Type: S.S. Dia.: 4" Siot/Gauze 10 Length 4.
Sand	5	130	Set between 126 ft, and 130 ft.
			Fittings: S中D
			9 STATIC WATER LEVEL  25 ft, below land surface
			10 PUMPING LEVEL below land surface
			130 ft. after 2 hrs. pumping 30-40 g.p.m.
			ft. after hrs. pumping g.p.m.
		\.C	Tron (Fe)Chlorides (CI)
	-		
			Hardness Other  12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter X 12" Above Grade
			Well Grouted? X Yes No Neat Cement X Bentonite
		<del>, , ,</del>	Depth: From 0 ft. to 40 ft.
			14 Nearest Source of possible contamination  70feet E Direction Septic Type
			Well disinfected upon completion Yes No
	į		15 PUMP: X Not installed
			Manufacturer's Name HPVolts
			Length of Drop Pipeft. capacityG.P.M.
			Type: Submersible Reciprocating
X			_
16 Remarks, elevation, source of data, etc.			WELL CONTRACTOR'S CERTIFICATION:
·		to the b	II was drilled under my jurisdiction and this report is true est of my knowledge and belief.
ADDED INFO BY DRILLER, ITEM NO.		Kei REGI	ser Well Drig. 1156 ISTERED BUSINESS NAME REGISTRATION NO.
*CORRECTED BY		Address	2219 Levering Rd., Cheboygan, Mich.
ELEVATION		Signed	Oard & Keiserbate 4-15-81
DEPTH TO ROCK		T Outlings	AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.	•		
5 111 28 1001	WATED W	/FII REC	ORD MICHIGAN DEPARTMENT
JUL 28 1981	ACT 294	PA 1969	OF PUBLIC HEALTH
1 LOCATION OF WELL County Township Name	1	Fraction	Section Number   Town Number   Range Number
Cheboygan Grant Distance And Direction from Road Intersections		8e <sup>1</sup> / <sub>4</sub>	se <sup>1</sup> se <sup>1</sup> / <sub>4</sub> 17 36 N/S/ 1 E/W/
Distance And Direction from Road Intersections			3 OWNER OF WELL:  Ken Burger
on Black River Rd.			Address Sky View Cottages
Street address & City of Wall Location  Locate with "X" in section below Sketch	Man'		Black Lake, Michigan  4 WELL DEPTH: (completed) Date of Completion
Skeller	Wob.		101 ft. 6-18-81
<b>I</b>			5 Cable tool X Rotary Driven Dug
w			Hollow rod Jetted Bored
			6 USE: Domestic Public Supply Industry    Irrigation   Air Conditioning   Commercial
			Test Well
			7 CASING: Threaded Welded Height: Above/Below
1 MILE	THICKNESS	DEPTH TO	Surface 1 ft.  Lin. to 97 ft. Depth Weight 11 lbs./ft.
2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	in, to
			8 SCREEN:
Clay	94	94	Type: S.S. Dia.: 4**  Slot/Gam26 Length 4*
Sand	7	101	Slot/Gm26
Sand			Fittings:
			STD
. · · · · · · · · · · · · · · · · · · ·			9 STATIC WATER LEVEL fl_owft, below land surface
			10 PUMPING LEVEL below land surface
			ft, afterhrs.pumpingg.p.m.
		(	11 WATER QUALITY in Parts Per Million:
		34.7	Iron (Fe) Chlorides (C)
			HardnessOther
			12 WELL HEAD COMPLETION: In Approved Pit
	<u> </u>		Pitless Adapter X 12" Above Grade
			13 Well Grouted? XYes No
			Neat Cement X Bentonite Depth: From 0 ft. to 40 ft.
			14 Nearest Source of possible contamination
			75 feet ne Direction septic Type
			Well disinfected upon completion X Yes No  15 PUMP: X Not installed
			Manufacturer's Name
			Model Number HP Volts
	<u> </u>		Length of Drop Pipeft. capacityG.P.M.
			Type: Submersible  Jet Reciprocating
USE A 2ND SHEET IF NEEDED		17 10 A TCD	WELL CONTRACTOR'S CERTIFICATION:
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRILLER, IJEM NO	<b>L</b>	This we	II was drilled under my jurisdiction and this report is true
*CORRECTED BY DRILLER, ITAM NU	-	Ke Ke	est of my knowledge and belief.  iser Well Drig.  STERED BUSINESS NAME  REGISTRATION NO.
e addition by	<u> </u>		
ELEVATION DEPTH TO ROCK		Address	2219 Levering Rd., Cheboygan, Wich.
PETTI TO HOUR	##. 	Signed	AUTHORIZED REPRESENTATIVE Date 6-18-81
D67d 100M (Rev. 12-68)			AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.						
MAR 2 5 1977	WATER V			_	MICHIGAN DEPA	
1 LOCATION OF WELL	ACT 29				PUBLIC HEA	
Cheleggan Hants		Fraction	- 5/10 1/2	Section Number	Town Number	Range Number
Cheleggan Distance Add Direction from Road Intersections		/4	3 OWNER OF \	Harry 756 250	-1 1	
·			Address	Thank	100km	
Street address & City of Well Location Allo Pd				Mulfred,	Mish 480	SYZ
Street address & City of Well Location A. R.C. Locate with "X" in section below Ske	tch Map:		4 WELL DEPTH	H: (completed)	Date of Completio	n ····· 3
			5 Cable to	96 ft. M		
			Hollow	rod 🔲 Jeti	ed 🔲 Bore	a 🔲
w			,	mestic Publ		
				gation Air	Conditioning [	Commercial
			7 CASING: TI	readed 🔀 Welde	d Height (Ab	ove/Below
1 MILE	THICKNESS	ДЕРТН ТО	4/ 10.10	/94 ft. Dept	Surface	/ft.
2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	in. to	ft, Dep	th Drive Shoe	7 Yes <b>X</b> No []
01	7	7	8 SCREEN:	les of 1	<i># .</i> ;	1.00
Clay Sand			Type: Multi	nless steel 12 193 ft. and	_ Dia.: 7 474 Length /2	hotet
Sand	7	14				
Clary	167	181	9 STATIC WAT	ER LEVEL	anda K	Pucker
Sand (water Bearing)	15	196	Flines	ft. below land s	orface	
			10 PUMPING	tt. after 2 hrs.	surface	)
			1 .			
				ft. after hrs.		g.p.m.
			k 2	ALITY in Parts Pe		
			ļ	Other	In Approved	Pít
				itless Adapter	🔀 12" Above G	
			å	ted? 🔀 Yes 🗌 No Cement 🄀 Bento		
			Depth: F	.omft.	180 ft	,
			14 Neggest Sc	ource of possible of Sould Direct	contamination	Destone
				fected upon compl		No Type
			15 РИМР:		Not installed	
			7	rer's Name		its
·				Drop Pipe		
			Type:	Submersible	Do-loss	
	<del></del>		1 4	Jet	Reciprocating	
USE A 2ND SHEET IF NEEDED		17 WATER	WELL CONTR	ACTOR'S CERTII	ICATION:	
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRILLER, ITEM NO.		This note	ll was⊬driljed u	ınder my jurisdict	ion and this repor	t is true
CONDUCTED RY (1) and		Hu	MISSE,	son well	1 Nicetur	RATION NO.
**ADDITION BY Oct of		Address	M68 9	lug Mi	llersher.	Mi 49759 16,1976
ELEVATION DEPTH TO ROCK		Audiess	11.01	19 10	) n	16 1007
D67d 100M (Rev. 12-68)		_ Signed∠	AUTHORIZED R	ENRESENTATIVE	Date Mu	10,1416

GEOLOGICAL SURVEY SAMPLE No.		
	WATER WELL RECOR	
1 LOCATION OF WELL	ACT 294 PA 1965	OF PUBLIC HEALTH
Cholory any Two Them	Fraction Swy Me	Section No. Town Range
Distance And Direction from Road Intersections 5/8 Media 1 5, School	DOWNER NO. PA	3 OWNER OF WELL: hard Calliel
Street address & City of Well Location	they Rd.	Address Elic barguer
2 FORMATION	THICKNESS DEPTH TO BOTTOM OF STRATUM STRATUM	4 WELL DEPTH: (completed) (Date of Completion ft.
Glacial Duft	- 254 25x'	5 Cable tool Rotary Driven Dug Hollow rod Jettel Bored
		6 USE: Domestic Public Supply Industry Irrigation Air Conditioning Commercial Test Well
		7 CASING: Threaded Welded Height: Above/Balow
		in. to ft. Depth   surface ft.   Weight 3 / 1   lbs/ft.
		8 SCREEN: Type: Thurson Dig.:
		Slot/Gauze Length 5 / X & O
		Set betweenft. andft. Fittings: The fittings:
		9 STATIC WATER LEVEL
		ft, below land surface  10 PUNPING LEVEL below land surface
		tt. diterhrs.ffmpingg.p.m.
		11 WATER QUALITY in Parts Per Million:
		Hardness
		12 WELL HEAD COMPLETION: 1 19 Approved 1
		13 GROUTING: Weil Grouted? Yes No
		Material: Neat Cement Depth: From ft.
		14 SANITARY:  Nearest Source of possible contamination  teet Direction
		Well disinfected upon completion Yes No
		Monufactor's Homplied of Filter
		Length of Drop Pipeft. capacityG.P.M.  Type:  Submersible
16 Remarks, elevation, source of data, etc.	17 WATER	☐ Jet ☐ Reciprocating  WELL CONTRACTOR'S CERTIFICATION:
ADDED INFO. BY DRILLER, ITEM NO.	This wel	I was drilled under my jurisdiction and this report is true
*CGRRECTED BY:	Ken	why Well Duling 0387

\*\*ADDITION DY

6-66

100M

D67D

GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER	WELL	AND	<b>PUMP</b>	RECORD

						L
	PE	RMIT	NU	MB	ER	

1 LOCATION OF WELL				
County Cheboygan	Township Name <b>Graņ≵</b>		Fraction 1/4	Section Number Town Number Range Number 17 36 N/SX 1 E/W
Distance And Direction From Road Int	ersection			3 OWNER OF WELL: Shirley TePatti
1/8 mile East of side of Covingto		e North	;	1929 E. Bradford Road  Address Midland, MI 48640
Street Address & City of Well Locatio				Address Same As Well Location?
Locate with "X" in Section Below	SI	ketch Map:		4 WELL DEPTH: (completed) Date of Completion
W				265 ft. August 12, 1987    Cable tool
1 Mile		THICKNESS	DEPTH TO	5 in. to 80 ft. depth# 21 Surface 1+ ft. Weight 2.87 lbs./ft.
2 FORMATION DESC	RIPTION	OF STRATUM	BOTTOM OF STRATUM	Construct Daill Made Discussion 1
0.3		1.6	1.61	in. toft. depth Drive Shoe Li Yes
Clay		46	461	6 3/4 in. to B ft. depth No Not Installed
Gravel		7	531	Type Wire Wound Diameter 411
Hard Pan		151	2041	Slot/Gauze 15 slot Length 48 x 70 Set between 261 ft. and 265 ft.
igi a Tan	· · · · · · · · · · · · · · · · · · ·			FITTINGS: K-Packer Lead Packer Bremer Check
Gravel	<del>.</del>	7	211'	Blank above screen 1½ ft. Other  9 STATIC WATER LEVEL:
Clay with Gravel	streaks	30	241'	Flow ft. below land surface
Grave1		24	2651	10 PUMPING LEVEL: below land surface ft. after hrs. pumping at 6.P.M.
0,0,0				tt. after hrs. pumping at G.P.M ft. after hrs. pumping at G.P.M.
				11 WELL HEAD Distance of the State of the St
				COMPLETION:    Pittess adapter   12" above grade   20   20   20   20   20   20   20   2
				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 Septic Distance 50+ ft. Direction SW
م معلى ال	to gran et a service ou			Well disinfected upon completion?
Mich. Oept.	ALIVED of Public Health			14 PUMP: INSTALLEDISAUGUST 24 mp 1987 tion Only
	7 4 1987			Manufacturer's name
4.5				Length of Drop Pipeft. capacity G.P.M.
Occupational	ronmental and			TYPE: X Submersible
Severaginousi	Health - GWOS			Manufacturer's name AMTROL
USE A 2ND SHEET IF	NEEDED			Model number WX 202 Insulated ityGallons
15. Remarks, elevation, source of	data, etc.		This we	R WELL CONTRACTOR'S CERTIFICATION:  Bl was drilled under my jurisdiction and this report is true best of my knowledge and belief.
			B	AMSBY WELL DRILLING INC. # 0387 REGISTERED BUSINESS NAME REGISTRATION NO.
			Addres	9810 N. Straits Hwy Chebovgan Mi
			Signed	Klenry M. Hamsby Date 8-26-87
D67d 2/84	,		5,9,100	Authority: Act 368 PA 1978
	GE	OLOGICAL	SURVE	Completion: Required

GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

 	PF	R	MIT	ГМ	İ	MB	FR	

1 LOCATION OF WELL							· · · · · · · · · · · · · · · · · · ·	
County	Township Name	Fraction		Section Number	Town Number	Range Number		
	S. Part Grant		NW 1/4 I	NE 14 NW 14		36 N/8	1 E/W	
Distance And Direction From Road Int				3 OWNER OF	WELL:			
Right off of Abl	ey Road			y 140 de				
	2			Address 1298 Greenfield Court Williamston, MI 48895 Address Same As Well Location? Yes 18 No				
Street Address & City of Well Location				Address Sa	me As Well Locatio) ناسط عبد	in? Tyes	1070	
Loopie with "Y" to Contine Delaw	A DOM	etch Mao:		4 WELL DEPTH		d New We		
		A D	Çe	205 FT.	10 12	88   Replacen	nent Well	
x -			7	5 Cable to			Dug	
	ABBEYXA	(GAC)	$\mathbb{C}_{2}$	Hollow n				
w    <u></u> (3	4 1155		/L	6 USE: Dom			Y	
	۵		1)	Irriga			Type III Public Heat pump	
▋▕ <del>▕</del> ▗▗▗▄▗┆ ▋ Ĭ	싀	1		Test			near pump	
			1	7 CASING: Diameter	lo Type II		(D. )	
1 MILE	7			Diameter X	Steel Thread Plastic Welde	_ ~		
		THICKNESS	ДЕРТН ТО	¶ 5 in to	198 <sub>ft. depth</sub>	Odridee	-1	
2 FORMATION DESC	RIPTION	OF STRATUM	BOTTOM OF			Weight	lbs./ft.	
	<u> </u>	STRATUM	MUTARIE	7 Gropted Dril	o ft. depth I Hale Diameter o ft. depth	Drive Shoe	□ vos	
03.55			يريد ا	1		i	X No	
Clay		12	12	a scores S	ee Remar'k			
17 - and 70 - 20			_ بـ ا	i		NOU III	stalled	
Hard Pan		151	163		# 1011TO SESS			
	_				XXXXXX			
Hard Pan * Sand St	reaks	7	170		_198ft			
		_		1 —	K-Packer		Bremer Check	
Hard Pan	<del></del>	_28	198_	9 STATIC WAT	oove screen	ft. Other		
						•		
Gravel * Sand	·	4.5	202.5		ft. below land		Flow	
ــــــــــــــــــــــــــــــــــــــ					EVEL: below land su			
Fine Silt * Sand		2.5	205		ft. after $2$ hrs.	•	į .	
				l ———	ft. after hrs.	pumping at	_ G.P.M.	
				11 14(51) 11515				
				11 WELL HEAD COMPLETIO	N: 🗀 Filless au		bove grade	
		<del> </del>		12 WELL GROU	Basement Basement	· · · · · · · · · · · · · · · · ·		
i:				12 WELL GROU	∏ No	X Yes From <b>Q</b>	to 198_ft	
				│ │ Neat cei	ment 127 Bento	nite Other_	1	
<u> </u>	And the second second							
					of cement rce of possible conta			
							A	
	<del></del>			1 7,1	Distan			
					ed upon completion?	Yes N	*	
	<u> </u>	<del> </del>		Was old well j		☐ Yes ☐ N		
				14 PUMP: [	Not Installed	Pump Inst	allation Only	
				Manufacture		Myers		
					<sub>•</sub> :S2J52J54	P. HP _1/2_ Vo	olts230	
		( )	<del></del>	Length of Dr	op Pipe <u>180</u>	ft. capacity	G.P.M.	
	공연 성의 병원로 되는 것	S. 4. S.		_	X Submersible	Jet		
			** ** 1	PRESSURE T				
					r's name		*	
USE A 2ND SHEET IF			10 14(4)	Model numb		CATION:	Gallons	
15. Remarks, elevation, source of	(***)				ACTOR'S CERTIFI or my jurisdiction an		# ## 	
10-69P/ 4'-slot	10 & 3' slot	6	to the b	est of my knowle	dge and belief.			
			KETS	ER WELT.	DRLG. IN	r. 11	56	
RE: 80' of SDR	21/118' of SI	JK 17		REGISTERED BUSIN	IESS NAME	REGISTRATIO		
17. Rig Operator's Name:			Address	2219 Le	vering Rd	<ul> <li>Cheboyg</li> </ul>	an, MI	
Scott Mallory			2 cansis	Diried	F. Keiser	Date 10-	-12-22	
D67d 12/85			. Signed	AUTHORI	ZED REPRESENTATIVE	Date IV	<u>, , , , , , , , , , , , , , , , , , , </u>	

Authority: Completion: Penalty:

Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.

### GEOLÓGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

## WATER WELL AND PUMP RECORD

	PF	RM	IT N	H	MR	FR	
		╽Ĺ					L
I				1			ľ

1 LOCATION OF WELL	1						
County	Township Name		Fraction		Section Number	Town Number	Range Number
Cheboygan  Distance And Direction From Road In	Grant		1/4	1/4 1/4		36 N/Sc	1 E/ <b>W</b> k
				3 OWNER OF	well: Frank	: Mustazza	
On the West side	of Owens Road or	Black :	River		<b>337</b> 9	Owens Road	
				Address	Chebo	ygan MI	
Street Address & City of Well Location	on.			Address Sa	me As Well Locatio	nn? √ET Yes T	∃ No I
Locate with "X" in Section Below		etch Map:		4 WELL DEPTH	l: Date Complete	YEAR I K New We	
				107 FT.	9 9	88  Replace	ment Well
┡╼╀╼╌╌╌╌				5 Cable to	ol 🔀 Rotary		
wE				Hollow re		Jetted	
"   -                       -             -     -     -   -   -     -				6 USE: Dom			Type III Public
				Irriga			Heat pump
				Z CASING:			
S I MILE				7 CASING: Diameter	Steel Thread Plastic Welde	"	•
		THICKNESS	DEPTH TO	5 in. to	104 ft. depth	#21	
2 FORMATION DES	CRIPTION	OF STRATUM	BOTTOM OF STRATUM		ft. depth	Weight	108./IT.
				6 3/4 in. to	Hole Diameter  LB ft. depth	Drive Shoe	
Clay		17	17'		ft. depth		X No
				8 SCREEN:		☐ Not in	nstalled
Gravel		6	23'		re Wound		_
Hard Pan	`	78	1011		15 slot		
nara ran		70	101'		ft		
Gravel		6	1071	_	X K-Packer		Bremer Check
				9 STATIC WATE		(t. Other <u> </u>	
				2+	ft, below land	surface	Flow
					VEL: below land su		
					ft. after hrs.	pumping at50-	Ł. G.P.M.
					ft. after hrs.	pumping at	G.P.M.
				11 WELL HEAD			above grade
				COMPLETIO			above grade roved pit
				12 WELL GROU	ITED?		to ft.
				Neat cer	ment <u>x</u> Bento of cement	nite Other _	Cuttings
					rce of possible conta		
<u> </u>				TypeSe	pticDistar	nce <u>50 ft.</u> Dire	ection <u>SW</u>
				Well disinfecte	d upon completion?	Yes A	lo l
	<del></del>	<del></del>		Was old well p	olugged?	☐ Yes ☐ N	No
				14 PUMP: 7	Not Installed	Pump Ins	taliation Only
					r's name		
					er		
	Mich. Dept.	CEIVED		۔ ا	op Pipe   Submersible	. ,	ľ
	vept.	of Public	Health	PRESSURE T		Jet	
	()CT 1		vai(II	Manufacture	r's name		
USE A 2ND SHEET IF	NEEDED	0 1988	<del></del>	Model numb	er		Gallons
USE A 2ND SHEET IF  15. Remarks, elevation, source of	data, etdureau of Env	ironmoss	16. WATER This well	R WELL CONTR II was drilled unde	ACTOR'S CERTIFI or my jurisdiction an		
	occupational i	Health of	and the b	est of my knowle	dge and belief.	o report to true	
			KAN	DRTPT	ANG ANC.	<del></del>	387
17. Rig Operator's Name:			Address	REGISTERED BUSIN	iess name N. Straits	REGISTRATIO	
				11 1	ر سال المسلم الما	9	boygan MI
D67d 12/85			Signed A		ZED REPRESENTATIVE	Date _	-19-88
5074 12/83					//	thority: Act	368 PA 1078

/Authority: A Completion: F Penalty: 0

Act 368 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY SAMPLE No.			
	WATER WELL ACT 294	L RECORD PA 1965	MICHIGAN DEPARTMENT OF
1 LOCATION OF WELL			PUBLIC HEALTH
Colleboy on Two Land	F	raction 4 1/4,	SE1/4 Section No. Town Block Range E/W.
Distance And Diferion from Road Intersections	OWNER No.	3	OWNER OF WELL I A MAR
Street address & City of Well Location	J. Ku.		Address Of Company of days
2 FORMATION	OF B	DEPTH TO 4 SOTTOM OF STRATUM	WELL DEPTH: (completed)   Date of Completion
Storial duft	295		☐ Cable tool
		6	USE: Public Supply Industry  Irrigation Air Conditioning Commercial
		7	CASING: Threaded Welded Height: Above/Below
			Diam. Threaded Dewelded L. Height: Above/Below surface ft. Weight D. Ibs/ft.
		I	SCREEN:
			Slot/Gouze Length 5 4 KGO
			Set between 210ft, and 255 ft.
			Fittings: STATIC WATER LEVEL
			PUMPING LEVEL below land surface
			ft. afterhrs. pumpingg.p.m.
No. 100 100 100 100 100 100 100 100 100 10		11	WATER QUALITY in Parts Per Million:
			tron (Fe) Chlorides (CI)
		12	WELVHEAD COMPLETION: In In Approved Fill
		13	GROUTING:
			Material: Neat Cement Depth: From ft. to ft.
			SANITARY: Negrest Source of possible contamination ( )
			Well disinfected upon completion Yes No
		l l	PUMP: Manufacturer's Name attifuted by Hours
			Model NumberHPHP
16 P	177		Type: Submersible Reciprocating
16 Remarks, elevation, source of data, etc.  ADDED INFO, BY DRILLER, ITEM NO.	1/	Thjs well wa	L CONTRACTOR'S CERTIFICATION:  s drilled under my jurisdiction and this report is true  f my knowledge and belief.
*CORRECTED BY:		REGIA	TENED BUSINESS NAME REGISTRATION NO.
A STATE OF THE STA		Address	and of the

100M

DEC

	WATER WE	LL RECO	
1 LOCATION OF WELL	ACT 294	PA 1905	OF PUBLIC HEALTH
Cheroggan Two Iran	<del>\</del>	Fraction ¼	14 NW4 Section No. Town Range W. W. Range
Distance And Precion from Road Intersections	OWNER No		3 OWNER OF WELL:
Street address & City of Well Location	f		Address P. J. J. Jones 1010
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) (page of Completion
Morris a drift	109		5 Cable tool Rotary Driven Dug Hollow rod Jetted Bored
	• • • • • • • • • • • • • • • • • • • •		6 USE: Domestic Dublic Supply Industry
			☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
			7 CASING: Threaded Welded Height: Above/Below 2 in. to ft. Depth surface ft.
-			Weight 3, 2  bs/ft.
			8 SCREEN: ( )
			Slot/Gaire 15 Length 34 X 80"
			Slot/Gauke Length A & State Set between 102 ft. and 102 ft.
			Fittings:
			9 STATIC WATER LEVEL
			10 PHMPING LEVEL below land surface
			10 PUMPING LEVEL below/land surface  if differ thrs. pumping 2.5
			ff. afterhrs. pumpingg.p.m.
			11 WATER QUALITY in Parts Per Million:   Iron (Fe) Chlorides (CI)
			Hardness
			12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter 12" Above Grade
			Well Grouted?
			Depth: Fromft. toft.
	,		Nearest Source of possible contamination
			Well disinfected upon completion Yes No
			15 PUMP:  Manufacturer's Name  Attached
			Model Number HP
		-	Length of Drop Pipeft. capacityG.P.M.  Type:  Submersible
16 Remarks, elevation, source of data, etc.		17 WATER	☐ Jet ☐ Reciprocating WELL CONTRACTOR'S CERTIFICATION:
ADDED INFO. BY DRILLER, ITEM NO.		This wel	ll was drilled under my jurisdiction and this report is true ast of my knowledge and belfeh بالمراجعة على المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة ال
*CORRECTED BY		Kou	REGISTERED BUSINESS NAME TO REGISTRATION NO.
** TODITION BY: RES		Address	Pt. 4 Chilaraba
THE HUDITION MAR 1		Signed	ATTHORIZED BEPRESENTATIVE
D67D 100M 6-66			A

	W		LL RECOR	RD	MICHIGAN DEPARTMENT
		ACT 294	PA 1965		OF A
1 LOCATION OF WELL					PUBLIC HEALTH
Coupty	Twp. C/	1 15.	Fraction	Section No.	Town Range
Che voy que	Low		NW4 SE	45E4 17	36 M. 1 = E/W.
Distance And Difection from Roa	d Infersections	NED N	, ,	3 OWNER OF WELL:	0
14 was No.	07 Mana Ket	NER No.	- Di de	$\mathcal{C}, \mathcal{W}$	Dune !
N Colley 100	7 <b>v</b>		-	Address 🔑 💆	
Strant address & City of Well Los	cation			OA	Karane
	1	THICKNESS	ВЕРТН ТО	4 WELL DEPTH: (complet	ed) Dine of Completion
2 V FORMAT	TION	OF STRATUM	BOTTOM OF STRATUM	2/// ft.	
210		<del></del>		5 Cable and By	
I Lakery I	all so & State !	100 W	214	Hollow rod	Rotary Driven Dug
	· / /	ļ			Public Supply Industry  Air Conditioning Commercial
				Test Well	ar Conditioning Laboured
				7 CASING:	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<del> </del>			Welded Height: Above/Below-
	4			Zin. to 252ft.	
					Weight 3, 73 lbs/ft.
	- 100 121 - 211			in. toft, l	Depth Drive Shoe? Yes No
	<u> </u>		<del> </del>	8 SCREEN:	. West
				Type:	Dia.;_///
	7			Slot Quze 12	Length 5-1 x 80
	•			Set between 21/ ft.	724
				Set between <u>#€ 7 /</u> tt. (	and ft,
				Fittings:	
				Sangarar Car.	
	4 14			9 STATIC WATER LEVEL	
	····			ft. below lan	
				10 PUMPING LEVEL below	
				Charten often	Mrs. pumping 10+g.p.m.
	1			ft, after	hrs. pumpingg.p.m.
	/		1	11 WATER QUALITY in Por	
		<u> </u>		Iron (Fe)	Chlorides (CI)
	/			Hardness	
					INV. ET
				12 WELL HEAD COMPLET	In Approved House
				the committee of the company	12. Above Grade
				13 GROUTING: Well Grouted? Yes [	7 N.
				Material: Neat Ceme	NO
			-		
		ļ		Depth: Fromft. to	
			1	14 SANITARY: NOW	o at enablet
				Nearest Source of possib	· /
			}		irectionType
				Well disinfected upon con	mpletion L. Yes L. No
				15 PUMP: Comp	we by the
				Manufacturer's Name	
				Model Number	
	<del></del>			Length of Drop Pipe	ft. capacityG.P.M.
				Type: U Submersible	
16 Remarks, elevation, source of	data ata	· ·	17	Jet	Reciprocating
				VELL CONTRACTOR'S CER was drilled under my jurisdi	ı
ADDED INFO. BY	DRILLER, ITEM NO.			was ariiled under my jurisal staf my knowledge and belie	
	rakents With		Colins	My 11100 N	Julius 13.00
*JORRECTED BY:	J = 2000		RE	GISTERED BUSINESS NAME	REGISTRATION NO.
glad A.C	/		Address_	( Old having 4 the	· V
**ADDITION BY:			Vagias 2"	de Mil	Maria and a
	,****i		Signed	THE RUNGE	Date Date
D67D 100M 6-66	<del></del>		A	UTHORIZED REPRESENTATIVE	8
DO.D 100M 0*00	2 0/				

GEOLOGICAL SURVEY SAMPLE  $N_{\text{o}}$ .

	ACT 294	LL RECO	memerate bet more than
1 LOCATION OF WELL	AC1 274		WSE 17 PUBLIC HEALTH
Che boy our Two Sunt		Fraction	Section No. Town Range 36 N/s. Range
Distance And Direction from Road Intersections	WNER No.		3 OWNER OF WELL
14 hall Back J. Rd. on	ally	Rd.	Address ()
Street address & City of Well Location	4	·	Cheboy gam
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Soft of Completion
Glacial drift	120'		5 Cable tool Rotary Driven Dug Hollow rod Jetted Bored
			6 USE: X Domestic D Public Supply Industry
			☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
			7 CASING: Threaded 💢 Welded 🗌 Height: Above/Below
			in. to //Zft. Depth surface ft. Weight lbs/ft.
			in. toft. Depth Drive Shoe? Yes No
	-		8 SCREEN:
			Stot/Qduze /5 Length 5 0" X 60"
, i e			Y
			Set between //6 ft. and /20 ft. Fittings: A D D D T 1.11
	<u> </u>		9 STATIC WATER LEVEL
			ft. below land surface
			10 PUMPING LEVEL below land surface  11. afterhrs. pumping
			ft. afterhrs. pumpingg.p.m.
			11 WATER QUALITY in Parts Per Million:
			Iron (Fe) Chlorides (CI)
			Hardness
			12 WELL HEAD COMPLETION:  In Approved Pit Pitless Adapter  12' Above Grade
			13 GROUTING:
			Well Grouted? ☐ Yes 🗶 No Material: ☐ Neat Cement ☐
			Depth: Fromft. toft.
· · · · · · · · · · · · · · · · · · ·			14 SANITARY: Unit of completion
			feetDirectionType Well disinfected upon completion    Yes    No
			15 PUMP:
			Manufacturer's Name HP HP
			Length of Drop Pipeft. capacityG.P.M.
			Type: Submersible Reciprocating
16 Remarks, elevation, source of data, etc.			WELL CONTRACTOR'S CERTIFICATION:
ADDED INFO. BY DRILLER, ITEM NO.			Il was drilled under my jurisdiction and this report is true est of my knowledge and belief.
*CORRECTED BY:		Krus	EGISTRATION NO.
** TUTION BY:		Address	the Country of Dobacil
peren truscas dess		Signed	AUTHORIZED REPRESENTATIVE

<del> </del>	WATER WE	LL RECO	MOINGING BELANTINEN
1 LOCATION OF WELL			7 PUBLIC HEALTH
The bangan Trait	<b></b>	Fraction	
Distance And Direction from Road Intersections  A Company of Well Location	OWNER NO	Kd.	3 OWNER OF WELL:  Address Ref. La lay and
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	
	- CTANTON	311111111	5 Cable tool Rotary Driven Dug
			6 USE: Domestic Public Supply Industry    Irrigation Air Conditioning Commercial
			7 CASING: Threaded Welded Height: Above/Below
17.17.18.18.18.18.18.18.18.18.18.18.18.18.18.			Zin. to /37ft. Depth surface ft. Weight lbs/ft.  —in. to ft. Depth Drive Shoe? Yes No□
			8 SCREEN Dig.: Dig.: ///
			Slot/Gooze / B Longth 54" Y60"
			Set between 36 ft. and 19 ft. Fittings:
			9 STATIC WATER LEVEL
		<del>, <u>-</u></del>	ft. below land surface  10 PUMPING LEVEL below land surface
			ft. afterhrs. pumpingg.p.m.
			11 WATER QUALITY in Parts Per Million:   Iron (Fe)
		<del></del>	Hardness
			12 WELL HEAD COMPLETION: In Approved Pit.  Pitless Adapter I 12'' Above Grade
			13 GROUTING: Well Grouted? Yes X No Material: Neat Cement
			Depth: Fromft. toft.
			Nearest Source of possible contamination
		1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1,-1	Well disinfected upon completion Yes No  15 PUMP:
			Manufacturer's NameHP
			Length of Drop Pipeft. capacityG.P.M.  Type:  Submersible
16 Remarks, elevation, source of data, etc. DDED INFO. BY DRILLER, ITEM NO.	L		☐ Jet ☐ Reciprocating WELL CONTRACTOR'S CERTIFICATION:
ORRECTED BY:			II was drilled under my jurisdiction and this report is true est of my knowledge and belief
* TON BY		F	REGISTERED BUSINESS NAME REGISTRATION NO.
the total and th		Address, Signed_	Mir Kamely Mon. Oct. 25 6
DEZD 100M 6.6MIV 0			AUTHORIZED REPRESENTATIVE

MICHIGAN DEPARTMENT OF PUBLIC HEALTH GEOLOGICAL SURMEY NO. 3 1983 WATER WELL AND PUMP RECORD

•					_
PE	RMIT	NU	MB	ER	

1 LOCATION OF WELL	1	PART 127	ACT 368, P.A	. 1978		L EÚMILT 14	OWDER
County	Township Name		Fraction		Section Number	Town Number	Range Number
CHEBYGAN	GAANT		1/4	1/4 1/4	17	30 N/S	/ E/W
Distance And Direction From Road In			· · · · · · · · · · · · · · · · · · ·	3 OWNER OF			1 L/V/N
SECTION 17 IN		USHIP				REST PEAT STATE ROAD	Moss
Street Address & City of Well Location	n			Address Sa	me As Well Locati	on? 🛛 Yes 🗆	] No
Locate with "X" in Section Below	Sk	etch Map:		4 WELL DEPT	H: (completed)  3 ft.	Date of Complet	ion 1e 1983
w				Cable too	od 🔲 Augei	Jetted	Dug
				6 USE: Dom	ation Type	Ha Public 🔲	Type III Public Heat pump COMM.
1 MILE				7 CASING: Diameter		ded Height: Abov	/e/B <del>elow</del>
2 FORMATION DESC	RIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	•	ft. depth	Surface 17 Weight 22	
FINE SAND		8	8	Grouted Drift	Hole Diameter  B ft. depth	   Drive Shoe 	Yes No
FINE-MED SAND	AND GRAVEL	9	17	8 SCREEN:	ww	□ Not In	stalled
FINE SAND		23	40	Slot/ <del>Gau/</del> e _	10	Length 48 X	70
SAUD WITH CLA	<i>4 Y</i>	5	45	FITTINGS  Blank at	K-Packer	t. and <u>63</u> Lead Packer [] t	3remer Check
FINE SAND		18	63+	9 STATIC WATE			Flow
				10 PUMPING LE	EVEL: below land s	urface	
			· (		ft. after nrs.	pumping at /	, G.P.M.
						pumping at	1
1999 - 40 - 19				11 WELL HEAD			
				COMPLETION  12 WELL GROU	Basemer	nt offset Appro	
				Neat cer	∐ No	Yes From	5ft.
			/				
PARTIE DE LA CONTRACTION DEL CONTRACTION DE LA C					of cement ce of possible cont		
- MARY IV.				Туре	<i>No N ∈</i> Dista		ction
					ed upon completion	Yes 🗆	No
	数 (	3 A 40 100		14 PUMP:	Not Installed r's name <b>_ Go</b> し		tallation Only
		E 144.4 194.4			r's name <u>000</u> er <i>10 EJ</i>	HP /2 V	olts <u>230</u>
	Mich. Done of p	rib'ic Her	vith	Length of Dr	op Pipe <u>52</u>	ft. capacity	
	MAY 23			TYPE· L PRESSURE T Manufacture	/ /	□ Jet 1TROL	
USE A 2ND SHEET IF	Environment	at and		Model numb	0 - 0	Capacity	B Gallons
	ORILLER, ITEM NO.	nistration	This wel	WELL CONTR	ACTOR'S CERTIF		
*CORRECTED B	7 M 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				L DRILLING, I	NC.	The state of the s
E*ADDITION BY			Address	REGISTERED BUSK	638/ZME AN, MI. 49721	REGISTRATIO	N NO.
DEPTH TO ROCK	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (			A. L.	amali.		apr 83
D67d (Rev 10-80)	V. C. Commi		I Signed _	AUTHORIZ	ZED REPRESENTATIVE	Date <u>J</u>	ajoos

GEOLOGICAL SURVEY SAMPLE No.			
SEP - 9 1976	WATER V	VELL REC	CORD MICHIGAN DEPARTMENT
1 LOCATION OF WELL	ACT 29		0F PUBLIC HEALTH
County Township Name		Fraction	*141 /17"
Cheboygan Grant  Distance And Direction from Road Intersections  5/8 mile East of Gaynor Road on No.		1360 VA/12	3 OWNER OF WELL:
5/8 mile East of Gaynor Road on No:   of Abbey Road	rth side		Mr. Richard Callesen Address 8078 Potter Road
			Davidson, Mi 48423
Street address & City of Well Location  Locate with "X" in section below Sketcl	п Мар;		4 WELL DEPTH: (completed) Date of Completion
		1	67 ft. 25 May 1976
W S MADO		Jan.	5 Cable tool Rotary Driven Dug
W HOSE		(X)	6 USE: Domestic Public Supply Industry
(P)			Irrigation Air Conditioning Commercial
			Test We!!  7 CASING: Threaded  Welded Hoight: Above/Below
5 1 MILE →			Surfaceft.
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 in, to 53 ft, Depth   Weight 11.00bs./ft.
			8 SCREEN:
Sandy clay	2	2	Type: Wire Wound Dia.: 4*
Medium hard clay	3	5.	Slot/ <b>XXX</b> e 12 Length 48 x 70  Set between 63 ft. and 67 ft.
Hard pan	58	63	Std R P w/18# Riser
Again of Posts	70		9 STATIC WATER LEVEL
Medium coarse sand and gravel	4	67	ft, below land surface
			ft, after hrs. pumping 10 - 12 g.p.m.
			1
			ft. afterhrs. pumpingg.p.m.  11 WATER QUALITY in Parts Per Million:
			Iron (Fe) <b>Unk</b> Chlorides (CI) <b>Unk</b>
			Hardness <b>Unic</b> Other
			12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter 12" Above Grade  13 Well Grouted? Yes No
			Neat Cement Bentonite
			Depth: Fromft, toft.  14 Nearest Source of possible contamination
			50+ feet N Direction Septia Type
			Well disinfected upon completion Yes No
			15 PUMP: Not installed  Manufacturer's Name
	<u> </u>		Model Number HP Volts
	ļ		Length of Drop Pipeft. capacityG.P.M.
			Type: Submersible Jet Reciprocating
USE A 2ND SHEET IF NEEDED			
16 Remarks, elevation, source of data, etc.	L	17 WATER	WELL CONTRACTOR'S CERTIFICATION:
ADDED INFO BY DRILLER, ITEM NI	0		off was drilled under my jurisdiction and this report is true lest of my knowledge and belief,
*CORRECTED BY	V•	RAMSI	BY WELL DELLING, INC. RECESSION NO.
ABDITION BY		Address	Route 4, Cheboygan, Mi 49721
DEPTH TO ROCK	* .	Signatura	Barbara J. Remake Date 7 June 1976
D67d 100M (Rev. 12-68)	nai:	് ചളന്ദവഹ്	AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.			
OCT 1 5 1975	WATED	WELL REG	
16 10	ACT 28		
1 LOCATION OF WELL County Township Name		Fraction	Section Number   Town Number   Range Number
Cholescan Hant	13/	N/= 1/4	45/W 17 36 (No. 1 (Du).
Distance per Direction from Road intersections	<u> </u>	1. 4	والمن المن المن المن المن المن المن المن
	\?\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Address Raymond L. Cheil Address 20203 Champaine Taylor, Mich, 48180
Street address & City of Well Location A Hour Rid			T 1. m. 1 10120
Locate with 'X' in section below Skete	h Map:		4 WELL DEPTH: (completed) Date of Completion
		e la reco	56 th. Sept. 17,1975
			5 Cable tool Rotary Driven Dug
	And the second		Hollow rod Jetted Bored
			6 USE: Domestic Public Supply Industry    Irrigation   Air Conditioning   Commercial
			Test Well
			7 CASING: Threaded Welded Height Above Detow
1 MILE	THICKNESS	<b>ДЕРТН ТО</b>	Surfaceft.
2 FORMATION	OF STRATUM	BOTTOM OF	in, toft, Depth Weight// lbs./ft. in, toft, Depth Drive Shoe? Yes X No
			8 SCREEN:
Clay	419	49	Type: Dlumbers steel Dia: Linch tologipe
Water Sand	7	56	Type: Plainten Stel Dia.: Linch telexipe Stot/Gauze 10 Length 3 fact Set between 53 ft. and 56 ft.
Waller Dama	<del>                                     </del>	)0	l
			9 STATIC WATERLEVEL
			·
			20" s below land surface  10 PUMPING LEVEL below land surface
			45 ft, after / hrs. pumping 30 g.p.m.
		· · · · · · · · · · · · · · · · · · ·	
			ft. after hrs. pumping g.p.m.
			11 WATER QUALITY in Parts Per Million;  Iron (Fe) Chlorides (CI)
			emulides (CI)
			HardnessOther
			12 WELL HEAD COMPLETION: In Approved Pit
	<del> </del>		Pitless Adapter 2 12" Above Grade  13 Well Grouted? 2 Yes No
		<u> </u>	☐ Neat Cement 😿 Bentonite ☐
			Depth: From O ft. to 52 ft.
	<del> </del>		14 Nearest Source of possible contamination
			feetDirection <b></b>
			15 PUMP: Not installed
			Manufacturer's Name
			Model Number HPVolts
			Length of Drop Pipeft, capacityG.P.M.  Type: Submersible
			Jet Reciprocating
100 . 200			
16 Remarks, elevation, source of data, etc.	<u> </u>	17 WATER	L
ADDO.		This wel	I was drilled under my jurisdiction and this report is true
*CONFIDENCE OF STREET AND.  *CONFIDENCE OF STREET AND.  EVENIEN OF SY		Thu	ik OE Son Will Writting 0295
TOWN TO THE MENT TO THE MENT T		PREGI	STERED BUSINESS NAME REGISTRATION NO.
T =		Address	JOTHORIZED REPRESENTATIVE Date Sept 17/975
DEFTH FORK		Signed .	Hen. W. Hunchel Date Fort 171975
D67d 100M (Rev. 12-68)		ئىر · ·	OTHORIZED REPRESENTATIVE

JUL 28 1975

#### WATER WELL RECORD

MICHIGAN DEPARTMENT

1 LOCATION OF WELL		ACT 29	94 PA 19	65		O PUBLIC	F HEAL	ГН	
County	Township Name		Fraction	•	Section Number	Town Numb	er f	Range Numbe	г
Oheboygan Distance And Direction from Roa	Grant		NW1/4 A	100/4 /10/4		36N N	/S.	1 <b>t</b> E/	w.
East side of Ga; Road Intersection Street address & City of Well Load	yner Road at the	South I	River	3 OWNER OF V	vell: <b>Cride</b> <b>Cheb</b> o				
Locate with "X" in section be		:h Map:∢		4 WELL DEPTH	l: (completed)		letion		
W	A Second	Cally or	Ñ	5 Cable to	no! 🐔 Rota	ed 🗌	Driven Bored	75	18 
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Car	to a	æ ·		gation Air : Well preaded Welde		t: Abov	e <del>/Below-</del>	
2 FORMATI	ON	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	in. to	2 <u>86</u> ft, Dept	h Weigh	t <b>.11.6</b>	ft. <b>∑O</b> bs,∕ft. Yes <b>K</b> No	]
SAND WITH CLAY	<b>?</b>	5	5	8 SCREEN:			L		
CLAY		12	17	Slot <del>/Garse</del> .	15 285 ft. and	_ Length		70	
HARDPAN		215	232	Fittings;	anderd RP	w/18#	Rise	r	
GRAVEL WITH O	ΑX	5	237	9 STATIC WAT	ER LEVEL ft. below land su	rface			
CLAY		1	238		EVEL below land ft. after hrs.		30	g.p.m.	
GRAVEL WITH O	AY	3.5	241.5		ft. after hrs. ALITY in Parts Per			g.p.m.	
HARIPAN	<del>^</del>	11	252.5		Chio				
COARSE GRAVEL	·····	2.5	255	Hardness ]	COMPLETION:	r			
HARDPAN		30	285	<b>₹</b> Pi	tless Adapter	12" Abo		e	·- · <u>-</u>
COARSE GRAVEL		5	290	Neat C	ed? 🗶 Yes 🗌 No ement 🛣 Bentor	nite 🔲			<del></del>
					irce of possible c	ontamination			
					SW Direct				pe
				15 PUMP:		Not installed		<del> </del>	
		-		7	er's Name ber		Voite	·	
					Prop Pipef				
				" =	Submersible Jet [	Reciproca	ting		
USE A 2ND SHEET	··								
16 Remarks, elevation, source	•		This we	ll was drilled un	CTOR'S CERTIF		eport is	true	
<b>,</b>	DDED INFO BY DRIFLER, I' CORRECTED BY *ADDITION BY	TEM NO.	to the b	est of my knowle					
Et	EVATION  PIE TO ROCK		1		in, Michiga		<del></del> ,		
D67d 100M (Rev. 12-68)		e er e sakikue	Signed	NO. LO AUTHORIZED REI	nsly PRESENTATIVE	Date	-/3	-75	

GEOLOGICAL SURVEY NO.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL			
County Township Name		Fraction	Section Number Town Number Range Number
CHEBOYGAN GRANT		NE 4N	E VSE V4 17 36N N/S 1R E/W
Distance And Direction From Road Intersection	F. 2437 F. 2524	T. T.	3 OWNER OF WELL:
1.5 MILES OFF TWIN LAKES RI	D ON ROSS	RD.	RICHARD BOYD
72/26/19	n		Address ROSS RD
ROSS RI			CHEBOYGAN, MICHIGAN 49721  Address Same As Well Location? Yes No
Street Address & City of Well Location CHEBOYO Locate with "X" in Section Below	GAN, MICH. Sketch Map:		
N I	onoton map.		I MO I DAY I YEAR M New Well
	4		116 FT.   5-31-90   □ Replacement Well   5 □ Cable tool   <b>X</b> Rotary □ Driven □ Dug
$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $	~ LAKE	2	Cable tool   Auger   Driven   Dug
W			6 USE: X Domestic Type   Public Type   Public
	<u>zo</u>		Irrigation Type II Public Integration Type III Public I
	(v)		Test Well Type IIb Public
	lv.		7 CASING: Steel Threaded Height: Above/Below
S MILE	xue	1/	Plastic Welded   Surface 1
SOUND TION DECORIDION	THICKNESS	DEPTH TO	5 in. to 112 ft. depth Weightlbs./ft.
2 FORMATION DESCRIPTION	OF STRATUM	BOTTOM OF STRATUM	in. to ft. depth
			Grouted Drill Hole Diameter  77/8 in. to 1112 t. depth  Drive Shoe
SOFT CLAY	0.0	8.0	in. toft. depth No
			8 SCREEN: Not installed
SAND	8.0	12.0	Туре <b>S . S .</b> Diameter <b>4 "</b>
			Slot/Gauze 12 Length 4
HARD PAN GRAVEL	12.0	20.0	Set between112ft, and116ft.
			FITTINGS: 🗽 K-Packer 🗌 Lead Packer 🗍 Bremer Check
HARDPAN	20.0	81.0	Blank above screen ft. Other
			9 STATIC WATER LEVEL:
SAND	81.0	82.0	ft. below land surface Flow
			10 PUMPING LEVEL: below land surface
HARDPAN	82.0	96.0	116 ft. after 2 hrs. pumping at 25 G.P.M.
			ft. after hrs. pumping at G.P.M.
HARD CLAY	96.0	98.0	11 WELL HEAD Rivers offenter 12" shows grade
12 M 12 M 14 M 14 M 14 M 14 M 14 M 14 M			COMPLETION: Triless adapter 12 above grade
HARDPAN	98.0	103.0	Basement offset Approved pit  12 WELL GROUTED?
SAND AND GRAVEL	102 0	116 0	No <b>X</b> Yes From <b>0</b> to <b>112</b> ft.
SAND AND GRAVED	103.0	170.0	Neat cement Bentonite Other
			No. of bags of cement Additives
			13 Nearest source of possible contamination
			Type Distanceft. Direction
<del>                                     </del>			Well disinfected upon completion? X Yes No Was old well plugged? Yes No
			Was old well plugged? ▲ Yes No
			14 PUMP: Not Installed Pump Installation Only
			Manufacturer's name
			Model number HP Volts
		<u> </u>	Length of Drop Pipeft. capacity G.P.M.
			TYPE: Submersible Jet
j. Σ <sub>ω</sub>		ļ	PRESSURE TANK:  Manufacturer's name
Bay and	ELVED		
USE A 2ND SHEET IF NEEDED!	Manual .	4.01 C UVATO	Model number Capacity Gallons
15. Remarks, elevation, source of data, etc.	Ben dina	ያታው. WATE This we	R WELL CONTRACTOR'S CERTIFICATION: all was drilled under my jurisdiction and this report is true
JAN 1	8 1991	to the b	pest of my knowledge and belief.
		KEIS	ER WELL DRLG, INC. 1156
17. Rig Operator's Name: BUREAU OF ENVI	HORINAMA	1	REGISTERED BUSINESS NAME REGISTRATION NO.
PHILLIP KILPATRICK	HEALTH OWNE	t Addres	2219 LEVERING RD, CHEBOYGAN, MI
THE REPORT OF		Signed	Wared Freish Date 6-1-90
D67d 2/89		•	AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.		
0C1 2 7 1975		
	WATER WELL RECORD	MICHIGAN DEPARTMENT
1 LOCATION OF WELL		OF PUBLIC HEALTH
County Township Name	Fraction	Section Number Town Number Range Number
Cheboygan GRANT Distance And Direction from Boad Intersections	NEW NEW A	ER OF WELL: 26 N/8.   E/W.
Distance And Direction from Road Intersections  / m. 50. of Twin A	AKES Kd	Form BoyD
100 6 DASS 01		:55
Street address & City of Well Location Rd,		DEPTH: (completed) Date of Completion
1   Twink	AKOS 5NO	82 ft. $9-15-75$
		Cable too! Rotary Driven Dug
W		Domestic Public Supply Industry
	0	Irrigation Air Conditioning Commercial
	~ * (V)	Test Well
1 MILE WOLL	Diam	NG: Threaded Welded Height: Above/Below.
2 FORMATION	THICKNESS DEPTH TO	in, to Scart, Depth   WeightIbs,/ft,
2 FORMATION	STRATUM STRATUM	in, toft, Depth Drive Shoe? Yes 🔀 No 🗌
C/AV	8 SCRÉI	EN:
0000	1 "	Dia,:
IGKANEL	March   Marc	Gauzeft. andft.
	Fittin	
	10	
	9 STATI	ft. below and surface
	10 PUN	IPING LEVEL below land surface
		ft. after / y/gs. bym)ing g.p.m.
		F 100-
	11 WAT	ft, after hrs, pumping g,p,m.  ER QUALITY in Parts Per Million;
	! ! !	(Fe)Chlorides (CI)
		dnessOther
	12 WEL	L HEAD COMPLETION: In Approved Pit
	13 <sub>Well</sub>	Pitless Adapter 12" Above Grade  Grouted? Yes No
	l	Neat Cement Bentonite
	Dep	th: Fromft, toft.
		est Source of possible contamination
		feet Direction Type disinfected upon completion Yes No
	15) · UM	
A CONTRACTOR OF THE CONTRACTOR	Man	ufacturer's Name
		el Number HP Volts
[5] [5] [6] [7] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7		gth of Drop Pipeft, capacityG.P.M.
	Typ	e: Submersible Seciprocating
		L. 1997BLOOMING
16 Remarks, playation, course of cate ato	17 WATER WELL OF	ONTRACTORS OSPISSOATION
16 Remarks, elevation, source of data, etc.	This well was dri	ONTRACTOR'S CERTIFICATION: illed under my jurisdiction and this report is true
ADDED INFO BY DRILLER, ITEM NO.	to the best of my	knewledge end belief.
*CORRECTED BY JT *ADDITION BY		USINESS NAME EGISTRATION NO.
ELEVATION	Address	3 BOX394, Cheb.
DEPTH TO ROCK		udt Keiserbare 9-15-75
D67d 100M (Rev. 12-68)	Signed AUTHORI	ZED REPRESENTATIVE

M/R 1 3 1975	WATER N	94 PA 196			MICHIGAN DEPA OF PUBLIC HEA	
County Township Name		Fraction		Section Number		Range Number
Che boygan Grant	784 d. 144 14- 1	NE 1/2-Si	12 1/2 NW 1/2	17	2 / N/#	1 -
Distance And Direction from Road Intersections From Juc. Fos N. an Man red To Manning rd. E 100 yds  Street address & City of Well Location	, m	k North	Address			•
Locate with "X" in section below Sketch	Map: Man	ANIM RE	4 WELL DEPTH	6 ft.	MICh. Date of Completio	
Man Rd. Well	F05-1		Hollow r 6 USE: Dom Irrig	od Jett nestic Publ pation Air	ed Borer	I Industry Commercial
1 MILE		-	Diam,	•	Surface	
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	in. to	/72_ft. Dept	th Weight 4	
Ciay	10 1				_ Dia.: _ 3//	
Gravel	30'	401	Slot/Gauze _ Set between	/6 //3 ft. and _	_ Length <i> 4 '</i> <i>! 7 4</i> ft.	•
Clay- Gravel	1001	140'	Fittings		ubben P	acker
Lime Rock	3 /	1431	4	ft, below land su	rface	
Clay - Gravel	30'	173'		EVEL below land ft. after <u>2</u> hrs.	surface pumping <u>/ 2</u>	g.p.m.
Sand	3'	1761		ft. after hrs.	pumping	g.p.m.
				LITY in Parts Per	Million: rides (CI)	
				Othe		
					In Approved P	
				ed? Yes No ement Bentor		
			Depth: Fro	mft.	toft,	
			<b>70</b> _feet		ion Bann	
			15 PUMP:	X ·	vot installed	JO
			Model Numb	er's Name perf rop Pipef	HP Volt	s
		<b>-</b>	Type: S		Reciprocating	
USE A 2ND SHEET IF NEEDED						
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRIELER, ITEM NO.  *CORRECTED BY  *ADDITION BY  ELEVATION  DEPTH TO ROCK		This well to the be REGIS	l was dritled uniest of my knowle	dge and belief. Tohnston NAME	CATION: on and this report REGISTR  Mich	0080 ATION NO.
DET DE 13 BAVER			AUTHORIZED REP			<b></b>

MICHIGAN DEPARTMENT OF PUBLIC HEALTH GEOLOGICAL SURVEY NO.

## WATER WELL AND PUMP RECORD

•	PE	R	MIT	ΓΝ	U	MB	ER	

1 LOCATION OF WELL							<b></b>
	Township Name		Fraction		Section Number	Town Number	Range Number
CHEBOYGAN	GRANT		SW 1/4 5	3E 1/4 SE 1/4	17	BAN N/S	tr E/W
Distance And Direction From Road Int				3 OWNER OF			
RIGHT OFF BLACK F	TIVER ROAD			FRANCI	S STOKES		,
ಕ್ರಮ ಸಂಘರ್ಷಕ ಕರ್ನಕ್ಕೆ ನಿವರಿಕೊಳಿಕೆ ಇವರಿಗೆ ಕೆ	, com migration of Majore Ships			Address		KETEL B	1
	ER APLS DITLE	tio mini	,		SURG, MICH		<sub>3.13</sub> -
Daniel Alla Company	BLACK RIVE				SEIFSER FILLER		
Street Address & City of Well Location Locate with "X" in Section Below	<del></del>	etch Map:	. DHN		me As Well Location H: (completed)	n? Lui Yes Lui Date of Completi	
Locate with "X" in Section Below		лоп мар:				· ·	
3				20	.,		20-85
F	<u>.</u>			5 Cable to	,		∐ Dug
	1			☐ Hallow r		Jetted	
W				6 USE: □XDon	nestic Type	Public 🔲	Type III Public
		-		Irrig	_	a Public 🔲	Heat pump
	Black River	RJ.	_	Test		b Public 🔲	
	•			7 CASING: Diameter	Steel Thread	led   Height: Abov	/e/Below
1 MILE				Pignierei 7	Plastic Welder	•	
		THICKNESS	DEPTH TO	•	o job	Weight 5	
2 FORMATION DESC	CRIPTION	OF STRATUM	BOTTOM OF STRATUM	in. t	o ft. depth	I morgitt	
			(11	Grouted Dri	II Hole Diameter to depth	I Drive Shoe	Yes
ri Av	ļ	100 A	RE A		•	ļ.	□ <sub>4</sub> No
CLAY		5.0	5.0	8 SCREEN:	to ft. depth	<u> </u>	
B B ST. FTG TO ST. AL A. T.	ļ	graf graf com	,,		**	Not Ir	staneo
HARD PAN		99.5	44.5	Type 🚟 🏖	3 s	Diameter	
		1			10		
GRAVEL		្ន	45.0	Set between	n <u>196</u> ft	t. and <u>200</u>	ft.
			ļ		XK-Packer		Bremer Check
HARD PAN		1.0	46.0		bove screen	ft. Other	
		ļ Ī		9 STATIC WAT			
GRAVEL		1.0	47.0		ft. below land		Y Flow
		1		10 PUMPING L	EVEL: below land su	irtace	
HARD PAN		8.0	55. <u>0</u>	<u> 200</u>	ft. after 🚉 hrs.	pumping at	<u>О</u> - <b>6</b> .Р.М.
				1	ft. after hrs.		i i
SAND		.5	55.5				
		33 167	an 4 16 P	11 WELL HEAI		lapter 12"	above grade
HARD PAN		AD E	124.0	COMPLETIC	ON: Basemen		roved pit
MENIAL FFNS		sourt-it as to b		12 WELL GRO			to _15/Bft.
CDAUCE	!	1 4 1	125.0		LJ No	es from 🛂	to <u></u>
GRAVEL		الياسيا	it Like	Neat c	ement 🖳 Bento	onite Other_	
11/\6ነጠ ኮላታ፣		ا سم وحوث	1200 0		TX of cement		ļ
HARD PAN		4E.5	167.5	13 Nearest so	of cement urce of possible cont	amination	
william to a sport			ند پښونې				
GRAVEL		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	148.0	Type MCM	Vt. Dista	nceft. Dire	ection
				Wall disinfo	cted upon completion	n? 🔲 Yes 🗀	] No
HARD PAN		8,0	176.0	<u> </u>		<u> </u>	
· —		ļ ;		14 PUMP:	X Not Installed	Pump Ins	stallation Only
GRAVEL		24,0	200.0		rer's name		
					ber		Volts
	:			1	Orop Pipe		
				TYPE:	Submersible	F	
		1		PRESSURE			
		<u> </u>			rer's name		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F NEFDFD			ľ			Gallons
USE A 2ND SHEET II	of data etc.	<b>L</b>	16 WATE		RACTOR'S CERTIF		
15. Remarks, elevation, source o	AM RECEIVE		Th:	ell was drilled un	ider my jurisdiction ai		;
65 CH1"	Mich. Deol. of Pub	lie Krown	to the t	best of my know	ledge and belief.		
FLOWS 15 G.P.M.			KEI	DEK MELI	L DRILLING		1156
	DEC 1 × 19	00 00		REGISTERED BUS		REGISTRAT	
			Addres	s <u>2219 l</u>	<u>LEVERING F</u>	O CHEBO	YGAN, MI
	Bureau of Environme	tint see in the		Jake 11	CXXX	esemple C	3-21-86
D67d 2/94	- (Astronational Pealth	<u>inna Ball.</u> Inflatoros	] Signed	AUTHO	RIZED REPRESENTATIVE	Date	
D67d 2/84		rational ratio				uthority: Act	269 PA 1079

		1
GENLOGICAL	SURVEY NO	1

## MICHIGAN DEPARTMENT OF PUBLIC HEALTH

# WATER WELL AND PUMP RECORD

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	1		1 1						1 1	
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						1			l .	
						1				
_						-				
		~~	~	4 1 7	T BI			FR		
		PF	м	и п	N		мп	PR		

1 LOCATION OF WELL									
County  COMERCIVEAN	Township Name	ki f	Fraction	W 1/4 M 1/4	Section Number	Town Number	Range Number		
Distance And Direction From Road In		13 < 4	13 - 1/4	3 OWNER OF	WELL:	N/S	L4 E/W		
RIGHT OFF OF KUR	ALL DRIVE IMIC	CMCMO	CAOD	MALPH		QALIF			
		, de la		Aggress	ran marra MINTIPE		i		
Street Address & City of Well Location	CHEBOYOM		LIGAN		ime As Well Location	r-d/	□ No		
Locate with "X" in Section Below		ketch Map:	V		H: (completed)	Date of Comple	tion 216~- 117		
	-	Ketch Map:	.ee.	5 Cable to			Dug		
	8/94	1970 · ·		Hollow r	od Auger	_			
w	17/1			6 USE: Don	nestic Type		Type III Public		
		River		Irrig Tes	t Well Type I	lib Public	Heat pump		
	`	VER	,	7 CASING: Diameter	Steel Threa	ded Height: Abo	ve/Below		
1 MILE	<u> </u>	THICKNESS	DEPTH TO	in t	Plastic Welde o	d   Surface	ok <sup>t</sup> ej		
2 FORMATION DESC	CRIPTION	OF STRATUM	STRATUM	in t	n ft deoth	Weight			
CLAY		8.0	0.0		II Hole Diameter toft. depth	Drive Shoe	L Yes □ No		
E. E. Ark I		0.7 3 4.7	4.1 0. 0.	8 SCREEN:	toft. depth	□ Not J			
SAMO & CRAVEL		0.0	11.0	Type	3.	Diameter			
HARD PAN		2.0	18.0	Slot/Gauze		Colligiti			
, , , , , , , , , , , , , , , , , , , ,		<del> </del>		FITTINGS	n	ft. and Lead Packer	_ ft. Bremer Check		
SKWI) & STWVEL		8.0	21.O		bove screen				
HARD PAN		92.0	113.0		ft. below lan	d surface	Flow		
2 3 3 6 3 W 3 40 - TW 2 3 F F F F F		178 63	120.0		EVEL: below land s		<b>3</b> .h		
SAMD & GRAVEL		g g %.*	1. SEE 5.7 = 1.7	ft. after hrs. pumping at G.P.M ft. after hrs. pumping at G.P.M.					
					_ ft. after hrs	. pumping at	G.P.M.		
				11 WELL HEA COMPLETE	ON:				
				12 WELL GRO		Basement offset Approved pit  ED? No Yes From to			
<u> </u>					ement 🖟 Bent				
					ementsem				
				13 Nearest so	urce of possible con				
				Type	PTIC Dist	ance <u>ft.</u> Di	rection		
REC	EIVED  of Public Hoseld			Well disinfe	cted upon completic	on? 🗓 Yes [	No No		
7 V. W. Col.	**			14 PUMP:	Not installed	Pump fr	nstallation Only		
111-	3 1 1987			Manufactu	rer's name	58 178	2.0		
, svi \$?	yayamedal ara			Model num	nber Orop ∯ipe	HP	Yalts 1 17 G.P.M		
Overtablishing	Health GWOS			TYPE:	Submersible				
		<del> </del>		PRESSURE Manufactu	rer's nameX	ff(CR	N 1"h		
USE A 2ND SHEET				Model nun	nber	Capacity	42 Gallor		
15. Remarks, elevation, source	of data, etc.		This w	ell was drilled ui	TRACTOR'S CERTI	and this report is tru			
			Potte	best-of my know	ledge-and belief.	167	1156		
				REGISTERED-BU	SINESE NAME INC	REGISTRA	TON NOW MI		
			Addres						
D074 0004			Signed	DHTUA	DRIZED REPRESENTATI		<u>3-30-8</u>		
D67d 2/84					\ \	Lucharieur Aa	+ 240 DA 1070		

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

rax no.		<u>MICHIGAN WATE</u>	<u>er well a</u>	ND PUMP RECORD Permit No.
ll Location of Well	1			
County	Township Name	Fraction	4 47 545 4	Section Number   Town Number   Range Number
	I GRANT SOUTHEAST P			
TO THE END OF ABBEY  ABBEY ROAD CHEBOYGAN	n From Road Intersection ROAD, JUST OFF BLACK		 	3 Owner of Well MAZIASZ, CHUCK  Address 4670 HIAWATHA DRIVE CHEBOYGAN MI 49721-  Address Same as Well Location? No
Street Address and Ci				4 Well Depth (Completed)   Date of Completion 08/24/94
Sketch Map    			   	107 ft.   New Well
   _	<b>^</b>   		 	5 Drilling Method MUD ROTARY
			 	6 Proposed Use DOMESTIC
	RIPTION	of  Bd   Stratum   S   1	ottom of   Stratum   1	Bore Hole Diameter 8 in. to 107 ft. depth  Drive Shoe No in. to ft. depth  Shale Packer No 8 Screen Gravel-packed? No Type SLOTTED Diameter 4 Slot/Gauze 15 Length 4 Set Between 102 ft. and 107 ft.
26 95			 	Fittings K-PACKER  9 Static Water Level  10 Pumping Level Below Land Surface  107 ft. after 2 hrs. pumping at 40 G.P.M.  ft. after hrs. pumping at G.P.M.  Using AIR
			;   	11 Well Head Completion PITLESS ADAPTER
AND OCCUPA			; ( )	12 Well Grouted? Yes From O to 40 ft. BENTONITE No. of bags of cement Additives
90.11 Gilia		1 I 1 I 1 I	1	l 13 Nearest Source of Possible Contamination Distance ft. Direction Distance ft. Direction
115 Abandoned well plu   Casing Diameter 		t.		14 Pump Installed Pump Installation Only? No   Manufacturer's Name MYERS   Model Number RM2N51-12 HP 1/2 Volts 115   Length of Drop Pipe 40 ft. Capacity 12 G.P.M.
  16 Remarks, elevation 	i, source of data, etc.	:	n 166 mil 944 444 194 384 em 184	Type SUBMERSIBLE Jet Pressure tank:   Manufacturer's Name WELL-X-TROL
		† This well † to the bes † Registered	was dril st of my     busines:	I Pressure Tank Model 202 U6 Capacity 40 gal. tor's Certification: led under my jurisdiction and this report is true knowledge and belief. s name: KEISER WELL DRILLING, INC
•	of violation of any is a misdemeanor.	1 Signed:	Davi	2212 LEYERING ROAD, CHEBOYGAN, MI 49721

TAX NO: 151-017-108-077-00	WATER W		ID PUN			PERMIT NO	0257
LOCATION OF WELL  County	Township Name	т.	Fraction		Section No.	Town N	No. Range No.
Cheboygan	Grant			1/4 NE1/4	Section No.	36 N	
Approximately 3/8 Mi Road on the North si	rsection ile East of Bla			3. OWNER of Address	DF WELL Done 3769	ld K. He Abbey R oygan, M	nrikson oad
Street Address & City of Well Location	1			Address S	Same as Well Loc	ation 🔀 Ye	s 🗌 No
ocate with 'x' in Section Below		Sketch Map		4. WELL DE  225  5. Cable Hollow  6. USE: X	ft. g /	19/97 Rotary auger/Bored	New Well Replacement Well Driven Dug Jetted Type III Public
1 MILE					Irrigation T Test Well T	ype IIa Public ype IIb Public hreaded	Heat Pump Height: Above/Below
2. FORMATION DESCRIPTION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	Diameter	Plastic Worker 5 in. to		Surface: 1 ft \ Weight: SDR-21   lbs:/ft
Hard Clay		6'	6'	BORE HC	<u>5</u> in. to <u>1</u>	22 Ift. depth- 5	
Hardpan		1961	2021		:in. to		Shale Packer
Medium Fine Sand		31	205'		8-3/4 in. to 2		el-Packed
Hardpan		61	211'		ainless St		
Clay & Sand	<del></del>	5'	216'	Set Betwe	en 221	ft. and	225ft.
Hardpan		1*	217'	FITTINGS	S: XK-Pack Above Screen	_	
Medium Coarse Sand &	& Gravel	81	2251	9. STATIC V	VATER LEVEL:	<del>-</del>	X Flowing 10 GPM
					G LEVEL: Below L		The county of the
발 크					ft. After	hrs. Pump	oing at 50+ G.P.M Test Pump
				X Pitless	AD COMPLETION Adapter nent Offset	<u> </u>	Above Grade I House
MAN O CE				12. WELL GR Neat (	Cement 🕱 B	entonite	From 200 to 0  Other  Z Mud
### <b>S</b>					None at Se		
USE A D SHEET IF  5. ABANDONED WELL PLUGGED? Casing Diameterin. PLUGGING MATERIAL: Cement/Bentonite Slurry No. of Bags	Yes No  Depth ft.  Neat Cement  Concrete Grout  Casing Removed?	Bentonite Bentonite Yes	Chips	Model Nur	mber 13GS07 Drop Pipe 8 Submersible	Goulds 422 HP 0 ft. Cap	p Installation Only  3/4 Volts 230 vacity 13+ G.P. N
16. REMARKS: (Elevation, Source o	f Data, etc.)	15 WATER	WELL CONTR		rer's Name	Amtrol Capac	city 32 Gallons
7. DRILLING MACHINE OPERATOR	31	This well		ınder my jurisc	diction and this rep	port is true to t	he best of my
Employee Subcontractor	r	REGISTERE Address	D BUSINEES WANT	South Stra	NG, INC. lits Hwy. I 49749	·	# 16-2031 REGISTRATION NO.

TAX NO.	MICHIGAN (	MATER WELL	AND PUMP RECORD Permit No.
Location of Well	Fraction	n	
Distance and Direction From Road Intersection   ON COVINGTON DRIVE   COVINGTON DRIVE   CHEBOYGAN			1/4   17   36N N/5   1E E/W   3 Owner of Well ENDLICH, DEAN   1
IStreet Address and City of Well Location			I Address Same as Well Location? No
Sketch Map		77 (17 <del>18)</del> and this sale sale in injury same a	4 Well Depth (Completed)   Date of Completion 07/01/96   270 ft.   New Well
			5 Drilling Method MUD ROTARY
			1 6 Proposed Use DOMESTIC
FORMATION DESCRIPTION    CLAY  HARDPAN	f of   Stratum   7   70	Depth to  Bottom of   Stratum     7   77	7 Casing PLASTIC   Height Above 5 in. to 262 ft. depth! Surface 1 ft. in. to ft. depth! Weight lbs./ft.   Bore Hole Diameter   B in. to 270 ft. depth! Drive Shoe No in. to ft. depth! Shale Packer No
HARDPAN ISAND AND GRAVEL IHARDPAN ISAND AND GRAVEL IHARDPAN STREAKED WITH CLAY	3   3   3   3   124	83   86   87   90   214	Screen   Stavel-packed? No
	1 10	1 230   1 240   1 270	9 Static Water Level Ft. Below Land Surface 12 Flow
	       		10 Pumping Level Below Land Surface 270 ft. after 2 hrs. pumping at 12 6.P.M.   ft. after hrs. pumping at 6.P.M.   Using AIR
	 	, , ! !	11 Well Head Completion PITLESS ADAPTER
	 		12 Well Grouted? Yes From O to 262 ft.  BENTONITE  No. of bags Additives
	! 	[	13 Nearest Source of Possible Contamination   Distance ft. Direction   Distance ft. Direction
is Abandoned well plugged? No Casing Diameter in. Depth ft. Casing removed? No		 	14 Pump Installed Pump Installation Only? No
lió Remarks, elevation, source of data, etc.	ينية يور ومرجد بالدنوة الدنوس شو استان الكا	 	Pressure tank:
Employee     Name BRUCE BYARD	This well	l was drill	or's Certification:   ed under my jurisdiction and this report is true   nowledge and belief.
Authority: Act 368 PA 1978   Completion: Required.   Penalty: Conviction of violation of any   provision is a misdemeanor.   IMPORTANT: File with deed.	Register Registra Address: Signed:	ed business tion number Me	name: KEISER WELL DRILLING, INC : 1851 ; 2219/LEVERING ROAD, CHEBOYGAN, MI 49721

TAX NO:	MICHIGAN DEF			-			PERMITN	O:	
16-151-017-200-002-0	WATER WE	LLA	ND PUI	ИP	REC	ORD		06	56
1. LOCATION OF WELL	Township Name		Fraction			Section No.	Town		Range No.
County CHEBOYGAN	CRANT		NTF1/4N	ፔ፡ 1/4	4 NEED/4	Section No.	1 OWI	INO.	nange No.
Distance and Direction from Road Inters			19 12: 1N		OWNERO	F WELL	361	¥.	1E
Black River Rd. to	Twin Lakes	Rd.	furn		Address	TOM~BO	Wwens	n a	
right on Owens Rd.	. Home on ri	ght ji	ust						49721
past Ross Rd.					Address S	ame as Well Loc	ation X Y		No No
Locate with 'x' in Section Below	Sk	etch Map	Ø.	4.	WELL DEP	TH: Date	Completed	☐ Nev	v Weil
	2		্প্র	L	88	ft. 8/	13/97	Rep	lacement Well
	Ke	`		5.	=		Rotary	Drive	
w	4 5	wens	RO X		Hollow	· · · · · · · · · · · · · · · · · · ·	luger/Bored	Jette	ed LJ
1 1 1 1 1 1 1 2 MI.	·\$			6.		Household 🔲 T			III Public
	13				_		ype IIa Public ype IIb Public		Pump
8		81		7.	CASING:		hreaded		Above/Below
1 MLE	Black Rive		T	•		Plastic V			:ft
2. FORMATION DESCRIPTION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM		Diamatasi	Other	O. C. EDD	20th in her	lbs/ft.
2					Diameter:	in. to	_கு.4ு.ப. வசுமால் ft. depth	zweign:	
Hard Clay		<u>15</u>	15'		BORE HOL	E:		Drive	
Coarse Gravel		22	37'		Diameter:	8in. to <u>}</u>		∐ Shal	e Packer
Hard Clay		36	73'	-	CODEEN	in. to		ual Daalua	<u> </u>
Coarse Gravel		15	88'	8.	Type I/J	Not Installed	l Kara	ver-Packe Jameter	्र <b>1</b> १
					Slot/Gauze	<u> 15                                    </u>	L	ength:	51
			<del>  -</del>	-	Set Betwee	n gg K-Pack	ft.an	mor Choo	8ft.
No graphical and a second	<u> </u>	<u>, a , i</u>				boye Screen			
				9.		ATER LEVEL:		•	
•						ft. Below Land	Surface	X Flow	ing 10gpm
						LEVEL: Below I			
				-	bottor □Plunger				
in the state of th									L Teat I ump
1.45				11	Pitless			" Above (	Grade
						ent Offset		el House	
				12	. WELL GRO	DUTED?	lo ⊡xYes	From _	0to_73ft.
	AUG 19	1997			Neat C	^	Bentonite Additives_ <u>∠</u> ₄ ()	Othe	
			<u> </u>	19		SOURCE OF PC	-		
									ection_ESE
USE A 2ND SHEET IF	NEEDED				Туре		stance	ft. Dire	
15. ABANDONED WELL PLUGGED?	Yes No	<u> </u>	<u> </u>	14	. PUMP:	Not Installed		mp Instal	lation Only
Casing Diameterin.	Depthft,				Manufactur	er's Name_St_s	-Rite	D 1	Nolta o o o
PLUGGING MATERIAL:	Neat Cement	Bentonite	•		Length of E	ber10SE Drop Pipe7 s	ft. C	apacity	
Cement/Bentonite Slurry	Concrete Grout	Bentonite	•		TYPE:	Submersible	Jet	Other_	
No. of Bags	Casing Removed?	Yes	NO		PRESSUR				
16. REMARKS: (Elevation, Source of	Data, etc.)				Manutactur Model Num	er's Name We ber 202	11 x 1	rol. acity	Gallons OA
	1	15. WATER	WELL CONT	RAC					<del>2.U</del>
		This we		unde		ction and this re	port is true to	the best	of 'my
17. DRILLING MACHINE OPERATOR:  ☐ ★ mployee ☐ Subcontractor	<b>I</b>	NORTI	HERN D	RI	LLING	INC.		16-	2002 STRATION NO.
9. **		REGISTER	ED BUSINESS NAM	ΛE					
Name Joe Kasuba-I	telper-Joe D.	_	750		urch l	Rd., Che		-	49/21 101/24
Ę		Signed	AUTHOR	2006	ZZZA.	war	Date	<u>~4/</u> /	8/4/

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Authority: Act 368 PA 1978 Completion: Required

TAX NO: MICHIGAN DE					PERMIT NO:	<u> </u>
151-017-100-004-0 WATER W	ELL AN	ID PU	MP REC	ORD	0014	•
LOCATION OF WELL County Township Name		Espesie	——————————————————————————————————————	Contraction		· ·
Cheboygan Grant		Fraction 1/4	1/4 1/4	Section No.	Town No. 36N	Range No.
Distance and Direction from Road Intersection		0.1	3. OWNERO	F WELL		Ma Sed
Magg to Owahama haratara		50 ×	Address	Darlene	Napier	<b>5</b> % 4
M-33 to Orchard Beach Rd-Left Rd-Right to N. Black River Rd	TO S.	Kiver			Black Riv	ver Rd. 1721
Rd-Right to N. Black River Rd.	wrgut	2	Address S	Gheboyg ame as Well Local	an, M. 43 ion 😨 Yes 🗌	
	Sketch Map	·····	4. WELL DEP		ompleted  New	
	- 1		251	<b>I</b>		acement Well
<b> </b>   - + -   - + -   <b>*</b>	- 1		5. Cable T			
W	- [		Hollow		ger/Bored	ed <u>L</u>
The ARBY ON	- [			Household Typ		III Public
ABBY RA				Imgation ∟ Typ Test Well ☐ Typ	pe IIa Public 🔲 Heat pe IIb Public 🗀	Pump
<u> </u>				Steel Thr		Above/Below
1 MIE	-		Onoma.	Plastic We		1+ It
2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	D:	Other		
772 7 7	<del>                                     </del>		j Diameter:	in. to _1	<u>6.4</u> t.d <b>60))∏ (2/4]</b> ght: 5.1t.d <b>60th</b> io.1.7	bs/ft.
Fill	4	4	BÖRE HOL	Æ:	X Drive	
Clay	52	56	Diameter:		Offite onth Shale	Packer
Gravel	2	58 <b>'</b>	g coperu	in. to	<del></del>	<del></del>
Clay				Not Installed	Gravel-Packe	а З <sup>14</sup>
•	140	198'	Slot/Gauze_	10	Length:	81
Grave1	2	200'	Set Betwee FITTINGS:	n 243	ft. and Bremer Chec	
Clay	37	237'		bove Screen	ft. Other	·
Course Gravel	14	251'	9. STATIC W		<u> </u>	
	The state of the s	· · · · · · · · · · · · · · · · · · ·	f	ft. Below Land S	urface	ing
			1	LEVEL: Below Lai		
Part Vill 4 in			bottom Plunger		hrs. Pumping at Air	G.P.M. Test Pump
	<b>6</b>	1			X-1 All	□ rest Pump
	6 (1) 6 5 7		11. WELL HEA	D COMPLETION: Adapter	12" Above G	irade
		2	☐ Baseme		☐ Well House	
THE WALLES	RECE	IVED	12. WELL GRO	OUTED? No	Yes From ()	***
MICH DI	PT OF ENVIR	ONMENTAL (	UALITY Neat Co	ement 🗶 Bei	dialog.	
			140.01 Dago	_10^	GORTIVES 100 02 BIBLE CONTAMINATION	
	OCT	1 1997	l		nce 57 ft. Dire	
USE A 2ND SHEET IF NEEDED			Туре	Dista		ction
15. ABANDONED WELL PLUGGED? Yes No Drink	ing Water & Radi Ground Wate	3t 2fibbih zetuari		Not Installed	Pump Install	ation Only
Casing Diameterin. Depthft.	WELL CONST	RUCTION UI	III ivianutacture	er's Name Grui	idfos.	Value() () ()
PLUGGING MATERIAL: Neat Cement	Bentonite	•		ber_ <u>JS10=7</u> Prop Pipe_ <u>105</u>	ft. Capacity 1	Volts <u>2_3.0</u> OG.P. M.
Cement/Bentonite Slurry Concrete Grout	Bentonite	,	TYPE:	Submersible	Jet Other	
No. of Bags Casing Removed?  16. REMARKS: (Elevation, Source of Data et al.)	Yes [_	NO .	PRESSURE		.m	
W Landy	Ì	· .	Manufacture Model Numl	er's Name <mark>Well</mark> ∑ ber 2()2	Capacity	Gallons 2()
SEP 15 1997	15 WATER	WELL CONT	RACTOR'S CERT		oupdony	- Sumono ZU
District 1997	This well	was drilled	under my jurisdia		rt is true to the best	of my
District Health Dept. #4  District Health Dept. #4  Dept. #4  Dept. #4	-	e and belief		71.54.5		
ixi Employee L. Subcontractor - Wi 4975			RILLING		1.6s	TRATION NO.
NameJohn Kasuba-Helper-Leo	Address 8	3750 C	hurch Ro	1., Chebo	ygan, MI	49721
GW-2-228 9/93	Signed	be A	nthu	iak	Date 9	9/97
•	1	TRUTHROND	LUTE RESENTATIV	F	Auth	cority: Act 368 PA 1978 Completion: Required
	GEOLOGIC	al surve	YCOPY	Penalty: Con	viction of a violation of any p	rovision is a misdemenor.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH TAX NO: PERMIT NO: WATER WELL AND PUMP RECORD 17 200 007 0661 LOCATION OF WELL County CHEBOYGAN Township Name Fraction Town No. Range No. 36N Distance and Direction from Road Intersection 1E 3. OWNER OF WELL Twin Lakes Rd. to wens Rd.-2nd lot from Address JOHN HAWKINS Rd. end on west side of road. Cheboygan, MI 4 Street Address & City of Well Location Locate with 'x' in Section Below Sketch Map New Well 4. WELL DEPTH: Date Completed Replacement Well 116 9 24 97 5. Cable Tool Driven Rotary Dua Hollow Rod Auger/Bored \_\_ Jetted 6. USE: X Household Type I Public Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump Test Well Type Ilb Public 7WM Lakes 7. CASING: Steel Threaded Height: Above/Below Plastic Welded Surface: 1 ft THICKNESS OF STRATUM DEPTH TO BOTTOM OF STRATUM FORMATION DESCRIPTION \_\_Other\_ Diameter: 5 in. to 1117t. depth it weight: \_\_\_in. to \_\_\_\_ft. depth Clay 22 22 BORE HOLE: Drive Shoe Sand & Gravel Diameter: 8 in. to both thenth Shale Packer 31' \_\_\_in. to \_\_\_\_ft. depth Hardpan 77 108 8. SCREEN: Not Installed Gravel-Packed Sand & Greatel 8 116' Type Wirewou;nd \_\_\_\_ Diameter Slot/Gauze Length: Set Between ft. and \_\_116 : SE FITTINGS: X K-Packer Bremer Check Blank Above Screen \_ ft. Other 9. STATIC WATER LEVEL: \_\_\_\_ft. Below Land Surface □ Flowing 1-1½GPM 10. PUMPING LEVEL: Below Land Surface Bottom ft. After 1 hrs. Pumping at 2()-F G.P.M. Plunger Bailer Air Test Pump 11. WELL HEAD COMPLETION: Pitless Adapter X 12" Above Grade Basement Offset Well House No Yes From 0 to 101 ft. 12. WELL GROUTED? Other\_\_\_ Neat Cement Bentonite District Health Lept. #4 Additives 50 Oz HZ Mud No. of Bags\_\_\_\_\_ Cheboygan, WI 49721 13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type N/A Distance \_\_\_\_\_ft. Direction \_\_\_ft. Direction\_ Distance USE A 2ND SHEET IF NEEDED 14. PUMP: Not Installed Pump Installation Only 15. ABANDONED WELL PLUGGED? Yes No Manufacturer's Name Depth \_\_\_\_\_ft. Casing Diameter \_\_\_\_\_in. Model Number HP PLUGGING MATERIAL: ☐ Neat Cement Bentonite Slurry Length of Drop Pipe \_\_\_\_\_ \_ft. Capacity \_ Cement/Bentonite Slurry Concrete Grout Bentonite Chips TYPE: Submersible Jet Other No. of Bags\_ Casing Removed? Yes No PRESSURE TANK: 16. REMARKS: (Elevation, Source of Data, etc.) Manufacturer's Name Model Number Capacity 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. 17. DRILLING MACHINE OPERATOR: NORTHERN DRILLING INC. Employee Subcontractor Name Joe Antkoviak-Helper-JoeD. Address\_ Church Rd., Cheboygan, MI GW-2-228 9/93 \_ Date\_\_\_\_

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A GARAGE

Panalty: Conviction of a violation of any provisi

TAX NO:	WATER W				_, ,_, , ,	PERMIT NO:	
LOCATION OF WELL  County							
Cheboygan	Township Name Grant	:	Fraction NE 1/4 N	NE 1/4 NE 1/4	Section No.	Town No.	Range No.
Distance and Direction from Road Inte 3/8 Mile East of Bl North side of Abbey	ack River Road Road.	on the	,,,,	3. OWNERO Address	FWELL Masil Abbey Chebo	Miller Road ygan MI.	49721
Street Address & City of Well Location Locate with 'x' in Section Below		Pleatab Ad				ion 🔀 Yes 🗌	<del></del>
W 1 Section Below 1 Mile 1 Mil	S	Sketch Map		7. CASING:	ft. 8 / 3  col X Ro Rod Au  Household Typ  Irrigation Typ	ger/Bored Driv ger/Bored Type le I Public Hea le IIb Public Hea le IIb Public Hea le IIb Public Height:	en Dug
2. FORMATION DESCRIPTION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM		Other		
Clay		8†	81	BORE HOL		33ft. depth   Weight: 33ft. depth   SDR 17	,
Clay & Gravel		71	15†	Diameter;	in. to 9in. to _23	ft. depth   🔲 Shai	e Packer
Hardpan		891	104'	8. SCREEN:	Not Installed	X Gravel-Packe	d
Sandy Clay		291	1331		inless Ste	el Diameter_	4"
Hardpan		70'	203'	Set Between	n <u>233</u>	t Length:ft. and <b>237</b>	ft.
Sandy CLay Public Her	alth	25'	2281	FITTINGS:	K-Packer		k
fine Sand		41	232'	9. STATIC W	ATER LEVEL:		
Medium Gine Sand		51	237'	<del> </del>	ft. Below Land St	·	ing 12 Gpm
BUREAU OF ENVIRONMENTAL OCCUPATIONAL HEALTH-GA	AND NOS			Grade  Plunger  11. WELL HEAI  Pitless A	Bailer  D COMPLETION:	hrs. Pumping at	Test Pump
				12. WELL GRO	UTED? No	X Yes From 2	
USE A 2ND SHEET IF	NEEDED					IBLE CONTAMINATION of the Direction of t	ction
15. ABANDONED WELL PLUGGED? Casing Diameterin. PLUGGING MATERIAL: Cement/Bentonite Slurry No. of Bags	Yes No Depth ft. Neat Cement Concrete Grout Casing Removed?	Bentonite S Bentonite S Yes	Chips	Manufacture Model Numb Length of D TYPE:	rer 10SP4C02 rop Pipe 40 X Submersible	ft. Capacity	Volts_230
16. REMARKS: (Elevation, Source of	Data, etc.)				r's NameAr erWX-202_[	atrol JG Capacity 20	Gallons
17. DRILLING MACHINE OPERATOR:  X Employee Subcontractor Name		This well knowledg	was drilled to and belief. FAMS	RACTOR'S CERT under my jurisdic BY DRILLIA North Straits Doygan, MI	tion and this repor  IG INC.  I Hwy.		of my 2031 TRATION NO.
W-2-228 9/93		Signed	Micho	ull ?	Ramsh	Date Sept	11, 1995

AND NOS

**GEOLOGICAL SURVEY COPY** 

Authority: Act 368 PA 1978 Completion: Required nviction of a violation of any provision is a misdementor.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH TAX NO: PERMIT NO: 151-17-200-007-00 WATER WELL AND PUMP RECORD 0661 LOCATION OF WELL County Township Name Fraction Section No. Town No. Range No. Cheboygan Grant 36N 12 Distance and Direction from Road Intersection 3. OWNER OF WELL Address John Hawkins Twin Lakes Rd. ot Owens Rd. - 2nd lot from 3561 Owens Rd. end on west side of road. Cheboygan, MI 4
Address Same as Well Location (4) Yes No 49721 Street Address & City of Well Location Locate with 'x' in Section Below Sketch Map 4. WELL DEPTH: Date Completed New Well Replacement Well 1 1 Rotary Driven 5. Cable Tool ☐ Dug Hollow Rod Auger/Bored Jetted 6. USE: Household Type i Public Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump Test Well Type IIb Public 7. CASING: Steel Threaded Height: Above/Below Plastic Welded Surface: \_\_\_\_\_ft THICKNESS OF STRATUM DEPTH TO BOTTOM OF STRATUM FORMATION DESCRIPTION Other Diameter: \_\_\_\_in. to \_\_\_\_ft. depth Weight:\_\_\_ \_\_in.\_to \_\_\_\_ft..depth BORE HOLE: Drive Shoe Diameter: \_\_\_\_in. to \_\_\_\_ft. depth Shale Packer \_\_in. to \_\_\_\_ft. depth 8. SCREEN: Not Installed Gravel-Packed Diameter Slot/Gauze Length: Set Between FITTINGS: K-Packer Bremer Check Blank Above Screen ft. Other 9. STATIC WATER LEVEL: \_ft. Below Land Surface Flowing 10. PUMPING LEVEL: Below Land Surface ft. After \_\_\_\_hrs. Pumping at Plunger Bailer Air Test Pump 11. WELL HEAD COMPLETION: Pitless Adapter 12" Above Grade ☐ Well House Basement Offset 12. WELL GROUTED? ☐ No ☐ Yes From \_\_\_\_\_to\_ Neat Cement Other\_\_\_ Bentonite No. of Bags\_\_\_ Additives 13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type\_\_\_\_\_ Distance\_\_\_\_\_ft. Direction \_\_\_ft. Direction\_\_ Distance USE A 2ND SHEET IF NEEDED 14. PUMP: Not Installed Pump Installation Only Yes No 15. ABANDONED WELL PLUGGED? Manufacturer's Name Stankite Casing Diameter \_\_\_\_\_in. Depth ft. Model Number 105P HP 1 Volts930 PLUGGING MATERIAL: Neat Cement Bentonite Slurry Length of Drop Pipe 8.5 ft. Capacity 10 TYPE: Submersible Jet Other Cement/Bentonite Siurry Concrete Grout Bentonite Chips No. of Bags\_\_\_\_ Casing Removed? Yes No PRESSURE TANK: 16. REMARKS: (Elevation, Source of Data, etc.) Manufacturer's Name\_Wellx'frol Model Number 202 Capacity 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. 17. DRILLING MACHINE OPERATOR:

NORTHERN DRILLING INC.

50 Church Rd., Cheboygan, MI 49721

Employee Subcontractor

GW-2-228 9/93

MICHIGAN DEPARTMENT OF PUBLIC HEALTH TAX NO: PERMIT NO: 140-N10-000-031-0 WATER WELL AND PUMP RECORD 0704 LOCATION OF WELL County Fraction Township Name Section No. Town No. Range No. Cheboygan Aloha NW 1/4 NW1/4NW 1/4 36N 3. OWNEROFWELL Bradford Rowe Distance and Direction from Road Intersection Approx. 400 ft south of road end turn 1133 Needle Point Dr. around Cheboygan, MI 49021 Street Address & City of Well Location Locate with 'x' in Section Below Sketch Map 4. WELL DEPTH: Date Completed New Well Replacement Well I = I5. Cable Tool Rotary Driven .... Dug Pioneer R Hollow Rod Auger/Bored Jetted 6. USE: Household Type I Public Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat Pump Test Well Type IIb Public 7. CASING: Steel Threaded Height: Above/Below ☐ Plastic ☐ Welded Surface: ft THICKNESS OF STRATUM FORMATION DESCRIPTION Other Diameter: \_\_\_\_\_in. to \_\_\_\_ft. depth Weight: lbs./ft. \_\_\_in. to \_\_\_\_ft. depth Drive Shoe BORE HOLE: Shale Packer Diameter: in. to \_\_\_\_ \_ft. depth in, to ft, depth 8. SCREEN: Not Installed Gravel-Packed Type Diameter Slot/Gauze Length: ft. and Set Between FITTINGS: K-Packer Bremer Check Blank Above Screen ft. Other 9. STATIC WATER LEVEL: Flowing \_\_\_ft. Below Land Surface 10. PUMPING LEVEL: Below Land Surface \_\_ft. After \_\_\_\_hrs. Pumping at G.P.M. 0 3 1997 Plunger Bailer ☐ Air Test Pump 11. WELL HEAD COMPLETION: . #/4 Pitless Adapter 12" Above Grade Well House Basement Offset 12. WELL GROUTED? □ No □ Yes Neat Cement Bentonite No, of Bags Additives 13. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Distance ft. Direction Distance ft. Direction USE A 2ND SHEET IF NEEDED Pump Installation Only 14. PUMP: Not installed ¥ Yes □ No 15. ABANDONED WELL PLUGGED? Manufacturer's Name\_Used\_owners Casing Diameter \_\_\_\_in. Depth\_\_\_60\_\_\_ft. Model Number\_\_\_\_\_ \_\_\_ HP\_\_ PLUGGING MATERIAL: ☐ Neat Cement Bentonite Slurry Length of Drop Pipe ft. Capacity \_\_\_\_\_G.P. M. Cement/Bentonite Slurry Concrete Grout Bentonite Chips TYPE: Submersible Jet Other\_ No. of Bags 7 Casing Removed? PRESSURE TANK: 16. REMARKS: (Elevation, Source of Data, etc.) Manufacturer's Name\_\_\_\_ Model Number Gallons 15. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief 17. DRILLING MACHINE OPERATOR: NORTHERN DRILLING INC. Employee Subcontractor Address 8750 Church Rd., Cheboygan, MI 49721 GW-2-228 9/93 Signed AUTHORIZED REPRESENTATIVE

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

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
WATER WELL AND PUMP RECORD PERMIT NUMBER: 2736

1 LOCATION OF WELL 163671	17001		:	Tax Parcel No. 15101730000601					
County T	ownship Name GRANT		Fracti		e No. 1 E				
Distance And Direction From Road 200 YARDS N. OF MANN RD, E. 5394 NORTH BLACK RIVER RD, Street Address & City of Well Loc	SIDE OF N. BLAC CHEBOYGAN 49721	CKRIVER RD		3 OWNER OF WELL GLENN PRINGLE  Address 5394 NORTH BLACK RIVER RD  CHEBOYGAN, MI 49721  Address Same As Well Location? [x] Yes [] No					
Locate with 'x' in Section Below	STOPIC STOPIC	ketch Map:		4 WELL DEPTH: Date Completed [ ] New Well 227.0 ft. 07/26/99 [x] Replacemen	t Well				
	73 TABLE 1	SHED		5 [] Cable tool [x] Rotary [] Driven [] [] [] Hollow rod [] Auger/Bored [] Jetted	Dug				
W EMAN	NRD	<del></del>		6 USE [x]Domestic []Type I Public []Type III  []Irrigation []Type II Public []Heat Pump  []Test Well []Type IIb Public []					
-1 mi S	ELEVATION	ON 0.00 m	nsl	7 CASING: [ ] Steel [ ] Threaded   Height: Abo   [x] Plastic [x] Welded   Surface 1.   Diameter					
2 FORMATION DESCRIPT	TION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	5.00 in. to 222.0 ft. depth					
ROCK & TOPSOIL		1.0	1.0	0.00 in. to 0.0 ft. depth					
HARDPAN & ROCKS		5.0	6.0	8 SCREEN [ ] Not Instal Type Stainless Steel Diameter 4:00	led				
HARD CLAY, HARDPAN	•	101.0	107.0	SLOT 12.000 Length 5.0 Set between 222.00 ft. and 227.00 ft.					
HARDPAN & BOULDERS		6.0	113.0	FITTINGS: [x]K-Packer [ ]Lead Packer [ ]Bremmer   [x] Blank above screen 0.5 ft. [ ]Other	Check				
SAND, GRAVEL		1.0	114.0	9 STATIC WATER LEVEL:					
HARDPAN		19.0	133.0	95.00 ft. below land surface [] F	low				
HARDPAN & BOULDERS		21.0	154.0	10 PUMPING LEVEL: below land surface   227 ft.after 1.0 hrs.pumping at 80 G.P.M.					
SANDY HARDPAN		19.0	173.0	0 ft.after 0.0 hrs.pumping at 0 G.P.M.					
HARD CLAY, HARDPAN		7.0	180.0	   11 WELL HEAD   COMPLETION: [x] Pitless adapter [ ]12'' above g	rade				
SOFT CLAY, SAND & GRAVEL MIX	· p	31.0	211.0	[]Basement offset []Approved pit					
HARD CLAY, HARDPAN  SOFT CLAY, SAND & GRAVEL MIX MICH DEPT OF THE PROPERTY OF	FERNIC VERS	10.0	221.0	12 WELL GROUTED? [ ]No [x] Yes From 5.0 to 21   [ ]Neat cement [x] Bentonite [ ]Other	2.0 ft.				
SAND & GRAVEL	MUMICINAL OF	6.0	227.0	No. of bags of BEN SEAL Additives EZ-MUD					
Ulinking Water & 2	1399	2.0	229.0	13 Nearest source of possible contamination 					
- C(NS)	dioportor Francisca Division os Singly Species RUCTION UNIT:			14 PUMP: []Not Installed []Pump Installation Or Manufacturer's name GRUNFOS 22   "SCH SO TOR Model number HP 3/4 Volts Pipe Length of Drop Pipe 205 ft. Capacity 10 G.P.M. TYPE: [x]Submersible []Jet PRESSURE TANK: Manufacturers name WE   MALE * BUREED* Model number WM (LP Capacity   Q.3 Gallo	SE SE				
15 Remarks, elevation, source of de 5x4 REDUCER BELL, 9 BAGS GRAVI			This we	WELL CONTRACTOR'S CERTIFICATION: all was drilled under my jurisdiction and this report a to the best of my knowledge and belief.  SACKRIDER & SON WELL DRILLING 1889					
Data Source: MDNR			i i	REGISTERED BUSINESS NAME REGISTRATION NO.					
17 Rig Operator's Name: JACOB LIEBER			Address Signed	Date Aug 3					
AUTHORITY: Act 368 PA 1978	COMPLETION: Requ	ologica	LTY: CONVIC	tion of a violation of any provision is a misdemeand	'n				