

LOG OF OIL, GAS OR MINERAL WELL WATER WELL  
 SUBMIT IN TRIPLICATE WITHIN 30 DAYS AFTER WELL COMPLETION

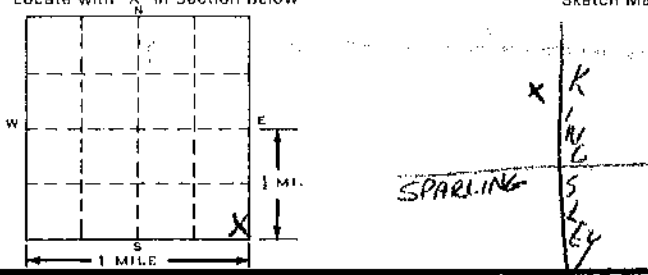
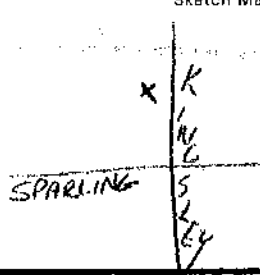
1. LOCATION DATA				
NAME(S) & ADDRESS OF OWNER(S) SHOWN ON PERMIT Shell Oil Company Grandview Plaza Traverse City Mi. 49684		NAME & ADDRESS OF DRILLING CONTRACTOR(S)		
LEASE NAME(S) & WELL NUMBER SHOWN PERMIT Wistrand 4-8		PERMIT NUMBER 39387		
COUNTY Oshtemo	TOWNSHIP Paradise	FRACTION N/4	SECTION NO. 8	
		TOWN NO. 25 N/4	RANGE NO. 10 E/W	
2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	3. WELL DEPTH (completed)	Date of Completion
			50 ft	11-28-85
sd.	8	8	4. <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Jettied <input type="checkbox"/>	
Five sd & clay mixed	12	20	5. CASING Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded 4 in to 45 ft depth	Height Above/Below Surface 2 ft Weight 11 lbs/ft
Med water sd.	30	50	Grouted Hole Diameter 7 in to 50 ft depth	Drive Shoe <input type="checkbox"/> Yes <input type="checkbox"/> No
			6. SCREEN <input type="checkbox"/> Not installed Type Johnson S.S. Diameter 4" Slot/Groove 1/2 Length 5' Set between 45 ft and 50 ft	
			FILLINGS <input type="checkbox"/> K Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen ft Other	
			7. STATIC WATER LEVEL 5 ft below land surface <input type="checkbox"/> Flow	
			8. PUMPING LEVEL below land surface 5 ft after 1 hrs pumping at 70 GPM ft after hrs pumping at GPM	
			9. WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From 0 to 25 ft <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other No. of bags of cement Additives	
			10. PUMP <input type="checkbox"/> Not installed <input type="checkbox"/> Pump Installation Only Manufacturer's name Model number HP Volts Length of Drop Pipe ft capacity GPM TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet	
11. REMARKS (ELEVATION, SOURCE OF DATA, WATER QUALITY, ETC.)				
(USE A 2ND SHEET IF NEEDED)				
12. AUTHORIZED REPRESENTATIVE CERTIFICATION (THIS WELL WAS DRILLED UNDER MY AUTHORITY AND THIS REPORT IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.)				
NAME J. & R Well Drilling PRINT OR TYPE				
ADDRESS Rt. 1 Elmira, Mich. 49750				
SIGNED <i>Don Shryock</i> DATE 12-22-85				
(USE A 2ND SHEET OR ATTACH SUPPLEMENTS IF NEEDED)				

**WATER WELL AND PUMP RECORD**

28-10-008-025-40

1 9 9 3 6

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		County <b>GRAND TRAVERSE</b>		Township Name <b>PARADISE</b>		Fraction <b>SE 1/4 SE 1/4 SE 1/4</b>		Section Number <b>8</b>		Town Number <b>25 NS</b>		Range Number <b>10 EW</b>			
Distance And Direction From Road Intersection <b>APPROX 2/10 OF A MILE NORTH OF SPARKING ON KINGSLEY RD.</b>				3 OWNER OF WELL: <b>FRISBY CONST INC.</b>				Address <b>9750 AMIDON</b>							
Street Address & City of Well Location <b>KINGSLEY RD</b>				Address Same As Well Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				4 WELL DEPTH: <b>125 FT.</b> Date Completed <b>7/31/91</b> <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement Well							
Locate with "X" in Section Below 				Sketch Map: 				6 <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"/>		8 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>					
2 FORMATION DESCRIPTION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		7 CASING: Diameter <input type="checkbox"/> Steel <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Welded		Height: Above/Below Surface <b>208 ft - 21</b>					
				<b>Sand &amp; gravel</b>		<b>50-65</b>		<b>78</b>		5 1/2 in. to <b>125</b> ft. depth		Weight <b>208</b> lbs./ft.			
<b>Clay</b>				<b>65-112</b>		<b>78</b>		78 in. to <b>125</b> ft. depth		Drive Shoe <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>Sand</b>				<b>112-125</b>		<b>78</b>		78 in. to <b>125</b> ft. depth		8 SCREEN: <input type="checkbox"/> Not Installed Type <b>SS steel</b> Diameter <b>4"</b> Slot/Gauge <b>10</b> Length <b>4 FT.</b> Set between <b>121</b> ft. and <b>125</b> ft.					
15. Remarks, elevation, source of data, etc. <b>Dig # 91-71831</b>								9 STATIC WATER LEVEL: _____ ft. below land surface <input type="checkbox"/> Flow		10 PUMPING LEVEL: below land surface _____ ft. after _____ hrs. pumping at _____ G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.					
								11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Pitless adaptor <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		12 WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From <b>0</b> to <b>29</b> ft. <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Other <b>Volclay</b> No. of bags of cement _____ Additives _____					
17. Rig Operator's Name: <b>Dave McGovern</b>								13 Nearest source of possible contamination Type <b>septic</b> Distance <b>50 ft</b> Direction _____		14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name <b>Myers</b> Model number <b>2-W</b> HP <b>1/2 HP</b> Volts <b>230</b> Length of Drop Pipe <b>116</b> ft. capacity <b>10</b> G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet					
								16. WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Phyllis Well Drilling Co. Inc.</b> REGISTERED BUSINESS NAME <b>Phyllis Well Drilling Co. Inc.</b> REGISTRATION NO. <b>71831</b> Signed <b>Phyllis Well Drilling Co. Inc.</b> Date <b>8/2/91</b> AUTHORIZED REPRESENTATIVE		18. Authority: <b>Completion: Penalty:</b> Act 868 PA 1978 Required Conviction of a violation of any provision is a misdemeanor.					

USE A 2ND SHEET IF NEEDED

RECEIVED  
Mich. Dept. of Public Health

NOV 12 1991

BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWQS

TAX NO: 28-010-008 008-15

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO: 24090

1. LOCATION OF WELL  
County GRAND TRAVERSE

Township Name PARADISE

Fraction 1/4 Sec 14

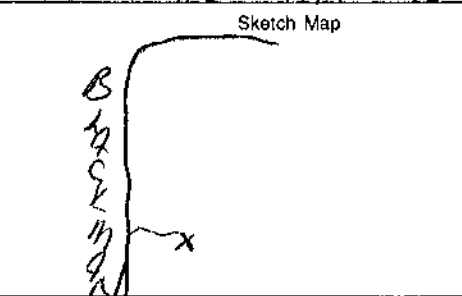
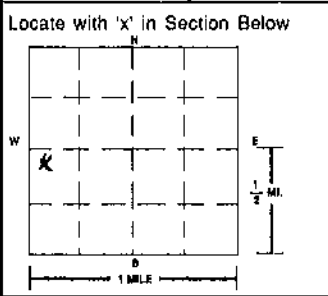
Section No. 8

Town No. ZSN

Range No. 10W

Distance and Direction from Road Intersection  
Street Address & City of Well Location 7655 BLACKMAN RD

3. OWNER OF WELL JOHN LENZINI  
Address 6916 E. HOXIE RD CEDAR RD  
Address Same as Well Location  Yes  No



4. WELL DEPTH: 133 ft. Date Completed 7/15/96  New Well  Replacement Well  
5.  Cable Tool  Rotary  Driven  Dug  
 Hollow Rod  Auger/Bored  Jetted

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

7. CASING:  Steel  Threaded  Plastic  Welded  Other  
Height: Above/Below Surface: 1 ft  
Diameter: 5 in. to 100 ft. depth Weight: 3.0 lbs./ft.  
BORE HOLE:  Drive Shoe  Shale Packer  
Diameter: 8 in. to 133 ft. depth

8. SCREEN:  Not Installed  Gravel-Packed  
Type SPR-21 Diameter 4"  
Slot/Gauze 1010 Length: 5'  
Set Between 128 ft. and 133 ft.  
FITTINGS:  NK-Packer  Bremer Check  Blank Above Screen ft. Other

9. STATIC WATER LEVEL: 93 ft. Below Land Surface  Flowing

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

11. WELL HEAD COMPLETION:  Pitless Adapter  2" Above Grade  
 Basement Offset  Well House

12. WELL GROUTED?  No  Yes From top to 120 ft.  
 Neat Cement  Bentonite  Other  
No. of Bags Additives

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

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
sand	47	47
clay + sand	15	62
sand + gravel	33	95
sand - clay streaks	10	105
sand few stones	28	133

14. PUMP:  Not Installed  Pump Installation Only  
Manufacturer's Name Myers  
Model Number Hradubr HP 3/4 Volts 220  
Length of Drop Pipe 120 ft. Capacity 12 G.P.M.  
TYPE:  Submersible  Jet  Other  
PRESSURE TANK: Well Rite  
Manufacturer's Name Well Rite  
Model Number 100-03 Capacity Gallons

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

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

17. DRILLING MACHINE OPERATOR:  
 Employee  Subcontractor  
Name Robert Nelson

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.  
Robert Nelson 1877  
REGISTERED BUSINESS NAME  
Address 11981 US-31 Interlochen REGISTRATION NO.  
Signed Robert Nelson Date 7-15-96  
AUTHORIZED REPRESENTATIVE

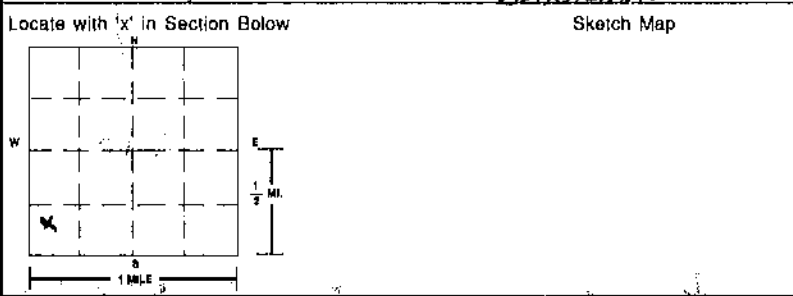
MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
**WATER WELL AND PUMP RECORD**

TAX NO:  
 78-10-008-017-00

PERMIT NO:  
 23102

1. LOCATION OF WELL  
 County: **GRAND TRAVERSE** Township Name: **PARADISE**, Fraction: **5, NW 1/4 SW 1/4 SW 1/4** Section No.: **8** Town No.: **25N** Range No.: **10W**

Distance and Direction from Road Intersection  
**7783**  
 Street Address & City of Well Location: **BLACKMAN RD**



3. OWNER OF WELL: **JOHN DEWEESE**  
 Address: **7400 S. WEST BAYSHORE DR. T.C.**  
 Address Same as Well Location  Yes  No

4. WELL DEPTH: **148** ft. Date Completed: **7/24/96**  
 New Well  Replacement Well

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

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

7. CASING:  Steel  Threaded  Plastic  Welded  Other  
 Height: Above/Below Surface: \_\_\_\_\_ ft.  
 Diameter: **5** in. to **140** ft. depth Weight: \_\_\_\_\_ lbs./ft.  
 BORE HOLE: Diameter: **7 1/8** in. to **148** ft. depth  Drive Shoe  Shale Packer

8. SCREEN:  Not Installed  Gravel-Packed  
 Type: **6 HUSON PVC** Diameter: **5**  
 Slot/Gauge: **12** Length: **8**  
 Set Between \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 FITTINGS:  K-Packer  Bremer Check  Blank Above Screen **2** ft. Other \_\_\_\_\_

9. STATIC WATER LEVEL: **102** ft. Below Land Surface  Flowing

10. PUMPING LEVEL: Below Land Surface \_\_\_\_\_ ft. After \_\_\_\_\_ hrs. Pumping at \_\_\_\_\_ G.P.M.  
 Plunger  Bailor  Air  Test Pump

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

12. WELL GROUTED?  No  Yes From **0** to **130** ft.  
 Neat Cement  Bentonite  Other **grout**  
 No. of Bags: **10** Additives \_\_\_\_\_

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:  
 Type: **Septic** Distance: **50+** ft. Direction: **W**  
 Type: \_\_\_\_\_ Distance: \_\_\_\_\_ ft. Direction: \_\_\_\_\_

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand	10	10
Clay	18	28
Gravel + sand	9	37
Sand	46	83
Clay	3	86
Sand	62	148

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

14. PUMP:  Not Installed  Pump Installation Only  
 Manufacturer's Name: **579-Rite**  
 Model Number: **15P4E02H** HP: **1** Volts: **230**  
 Length of Drop Pipe: **130** ft. Capacity: **1.5** G.P.M.  
 TYPE:  Submersible  Jet  Other \_\_\_\_\_  
 PRESSURE TANK: Manufacturer's Name: **Well-Rite**  
 Model Number: **140** Capacity: \_\_\_\_\_ Gallons

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

17. DRILLING MACHINE OPERATOR:  
 Employee  Subcontractor  
 Name: **Robert Miller**

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.  
**Cluff Well Drilling Co.** **28-1244**  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address: **6410 Center Rd, Traverse City, Mich**  
 Signed: **Albert J. Hlenski** Date: **7-24-96**  
 AUTHORIZED REPRESENTATIVE

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

TAX NO: **28-10-008-017-00**

PERMIT NO:  
**24241**

1. LOCATION OF WELL  
 County **GRAND TRAVERSE**

Township Name **PARADISE**

Fraction **SE 1/4 SW 1/4**

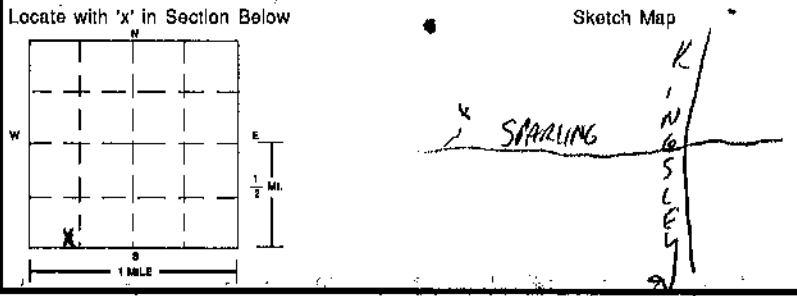
Section No. **8**

Town No. **25N**

Range No. **10W**

Distance and Direction from Road Intersection  
 Street Address & City of Well Location **1203 SPARKLING RD**

3. OWNER OF WELL **RANDY LAURACK**  
 Address **1055 MINKIN TRAVERSE CITY**  
 Address Same as Well Location  Yes  No



4. WELL DEPTH: **143** ft. Date Completed **9 9 96**  
 New Well  
 Replacement Well

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

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

7. CASING:  Steel  Threaded  Plastic  Welded  
 Other  
 Height: Above/Below Surface: \_\_\_\_\_ ft  
 Diameter: **5** in. to **135** ft. depth  
 Weight: \_\_\_\_\_ lbs./ft.  
 BORE HOLE: Diameter: **7 7/8** in. to **143** ft. depth  
 Drive Shoe  Shale Packer

2. FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
sand	18	18
clay	14	32
sand	54	86
clay-sand	44	130
sand	13	143

8. SCREEN:  Not Installed  Gravel-Packed  
 Type **JOHNSON** Diameter **4"**  
 Slot/Gauze **12** Length: **8 ft**  
 Set Between **135** ft. and **143** ft.  
 FITTINGS:  K-Packer  Bremer Check  
 Blank Above Screen **2** ft. Other \_\_\_\_\_

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

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

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

12. WELL GROUTED?  No  Yes From **0** to **125** ft.  
 Neat Cement  Bentonite  Other **groutwell**  
 No. of Bags **7** Additives \_\_\_\_\_

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:  
 Type **SEPTIC** Distance **50'** ft. Direction **W**  
 Type \_\_\_\_\_ Distance \_\_\_\_\_ ft. Direction \_\_\_\_\_

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

14. PUMP:  Not Installed  Pump Installation Only  
 Manufacturer's Name **Meyers**  
 Model Number **25T321Z** HP **1/2** Volts **230**  
 Length of Drop Pipe **100** ft. Capacity **12** G.P.M.  
 TYPE:  Submersible  Jet  Other  
 PRESSURE TANK:  
 Manufacturer's Name **Well-Rite**  
 Model Number **120-01** Capacity \_\_\_\_\_ Gallons **33**

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

17. DRILLING MACHINE OPERATOR:  
 Employee  Subcontractor  
 Name **Robert Miller**

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.  
**Cluff Well Drilling Co.**  
 Address **4110 Center Rd. Traverse City, MI 49680**  
 Signed **Albert Kalinski** Date **9-19-96**  
 AUTHORIZED REPRESENTATIVE

RECEIVED DEC 18 1996

WATER WELL AND PUMP RECORD

PERMIT NUMBER

20725

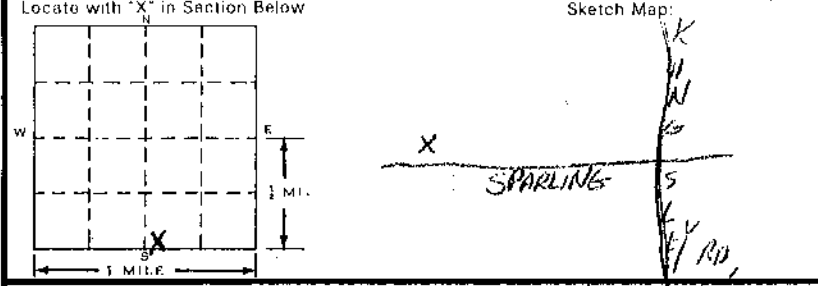
28-10-008-024-15

1 LOCATION OF WELL

County: GRAND TRAVERSE Township Name: PARADISE Fraction: SW 1/4 SW 1/4 SE 1/4 Section Number: 8 Town Number: 25 (NW) Range Number: 10 (E/W)

Distance And Direction From Road Intersection

Street Address & City of Well Location: 1505 SPARKLING RD



3 OWNER OF WELL: RONALD L. COMPTON

Address: 7550 TOWNLINE RD, KINGSLEY MI 49649

Address Same As Well Location?  Yes  No

2 FORMATION DESCRIPTION

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	111 - 111
CLAY	30 - 141
GRAVEL	9 - 150
SAND	18 - 168

4 WELL DEPTH: 168 FT. Date Completed: 9/23/92

New Well  Replacement Well

5  Cable tool  Rotary  Driven  Dug

Hollow rod  Auger  Jetted

6 USE:  Domestic  Type I Public  Type III Public

Irrigation  Type IIa Public  Heat pump

Test Well  Type IIb Public

7 CASING: Diameter 5 1/2"  Steel  Threaded  Plastic  Welded

Height Above/Below Surface: 1 ft. Weight: 300-21 lbs.

8 SCREEN: Type PVC Diameter 4 1/2" Length 8 FT. Slot Size 10

Set between 160 ft. and 168 ft.

FITTINGS:  Packer  Lead Packer  Bremer Check  Blank above screen 2 ft.

9 STATIC WATER LEVEL: 90 FT. ft. below land surface  Flow

10 PUMPING LEVEL: below land surface

ft. after hrs. pumping at G.P.M.

11 WELL HEAD COMPLETION:  Pitless adapter  2" above grade

Basement offset  Approved pit

12 WELL GROUTED?  No  Yes From 0 to 23 ft.

Neat cement  Bentonite  Other: UOLKAY

No. of bags of cement Additives

13 Nearest source of possible contamination: Type Septic Distance 30 ft. Direction

Well disinfected upon completion?  Yes  No

Was old well plugged?  Yes  No

14 PUMP:  Not Installed  Pump Installation Only

Manufacturer's name: Red Jacket Model number: 2-W HP 1/2 HP Volts 230

Length of Drop Pipe: 120 ft. capacity 10 G.P.M.

TYPE:  Submersible  Jet

PRESSURE TANK: Manufacturer's name: W-Well Extrol Model number: WX 30.2 Pressure Tanks

92-352794

10/29/92

RECEIVED Mich. Dept. of Public Health OCT 23 1992

BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-GWES

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

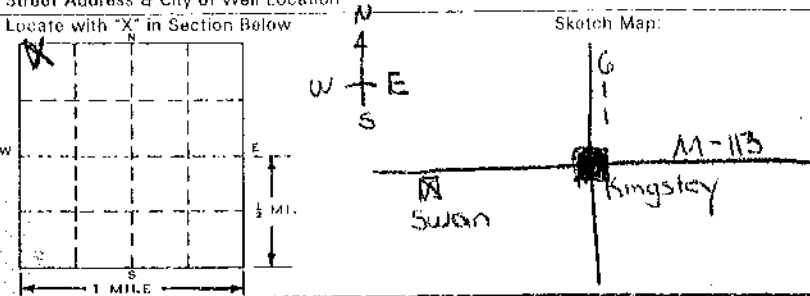
17. Well Operator's Name: DAVE MC GOWEN

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.

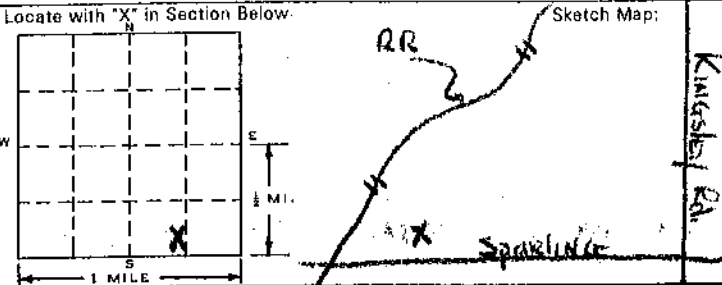
Phil Swell Drilling 0491 REGISTERED BUSINESS NAME REGISTRATION NO.

Address: 3703 KENNEDY ST. LANSING, MI

Signed: Paul J. Phoggy Date: 9/24/92 AUTHORIZED REPRESENTATIVE

<b>1 LOCATION OF WELL</b>			<b>3 OWNER OF WELL:</b>														
County <b>Grand Traverse</b>	Township Name <b>Paradise</b>	Fraction <b>NW 1/4 NW 1/4 NW 1/4</b>	Section Number <b>8</b>	Town Number <b>25 (N)</b>	Range Number <b>10 (E)</b>												
Distance And Direction From Road Intersection <b>One mile west of Kingsley, on south side of M-113, on hill</b>			Address <b>Peggy Swan 1162 M-113 Kingsley, MI 49649</b>														
Street Address & City of Well Location <b>Swan Kingsley</b>			Address Same As Well Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
Locate with "X" in Section Below 			Date Completed <b>12-29-88</b>														
2 FORMATION DESCRIPTION			WELL DEPTH: <b>110</b> FT.														
			Data Completed MO DAY YEAR <b>12 29 88</b>														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">FORMATION DESCRIPTION</th> <th style="width:10%;">THICKNESS OF STRATUM</th> <th style="width:10%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td><b>DRY SAND</b></td> <td><b>60</b></td> <td><b>60</b></td> </tr> <tr> <td><b>CLAY</b></td> <td><b>20</b></td> <td><b>80</b></td> </tr> <tr> <td><b>WATER SAND</b></td> <td><b>30</b></td> <td><b>110</b></td> </tr> </tbody> </table>			FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<b>DRY SAND</b>	<b>60</b>	<b>60</b>	<b>CLAY</b>	<b>20</b>	<b>80</b>	<b>WATER SAND</b>	<b>30</b>	<b>110</b>	<input type="checkbox"/> New Well <input checked="" type="checkbox"/> Replacement Well		
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			5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Jetted														
			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														
			7 CASING: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Plastic <input type="checkbox"/> Height: Above/Below Diameter <b>4</b> in. to <b>106</b> ft. depth Surface <b>1</b> ft. Grouted Drill Hole Diameter Weight <b>11</b> lbs./ft. Drive Shoe <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No														
			8 SCREEN: <input type="checkbox"/> Not Installed Type <b>STAINLESS</b> Diameter <b>4"</b> Slot/Coarse <b>10</b> Length <b>4</b> Set between <b>106</b> ft. and <b>110</b> ft. FITTINGS: <input checked="" type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen ft. Other														
			9 STATIC WATER LEVEL: <b>80</b> ft. below land surface <input type="checkbox"/> Flow														
			10 PUMPING LEVEL: below land surface <b>84</b> ft. after <b>1</b> hrs. pumping at <b>20</b> G.P.M. ft. after hrs. pumping at G.P.M.														
			11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Pitless adaptor <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit														
			12 WELL GROUTED? <input 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 <b>Tile Field</b> Distance <b>50</b> ft. Direction <b>N-E</b> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input type="checkbox"/> Yes <input type="checkbox"/> No														
			14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name <b>F&amp;W</b> Model number HP <b>1/2</b> Volts <b>220</b> Length of Drop Pipe <b>100</b> ft. capacity G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: Manufacturer's name <b>WELL &amp; TOOL</b> Model number Capacity Gallons														
15. Remarks, elevation, source of data, etc. USE A 2ND SHEET IF NEEDED			16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Don Inman Well Drilling 1286</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>4689 Bestie River Rd East</b> Signed <b>Don Inman</b> Date <b>12-29-88</b> AUTHORIZED REPRESENTATIVE														
17. Rig Operator's Name:																	



<b>1 LOCATION OF WELL</b>		
County <b>GRAND TRAVERSE</b>	Township Name <b>Paradise</b>	Fraction <b>SE 1/4 SW 1/4 SE 1/4</b>
Distance And Direction From Road Intersection <b>3/10 mile from Kingsley Rd on north side of Sparling Rd (1755 Sparling Rd)</b>		Section Number <b>8</b>
Street Address & City of Well Location <b>1755 Sparling Rd - Kingsley</b>		Town Number <b>25</b>
Locate with "X" in Section Below: 		Range Number <b>10E</b>
<b>3 OWNER OF WELL:</b> <b>Rudy Sedlacek</b> Address <b>1755 Sparling Rd - Kingsley</b> Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>4 WELL DEPTH:</b> <b>121 ft.</b> Date Completed <b>9-11-87</b> <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement Well		
<b>5</b> <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING:</b> <input type="checkbox"/> Steel <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Plastic <input checked="" type="checkbox"/> Welded Diameter <b>5</b> in. to <b>1 1/4</b> ft. depth Height: Above/Surface <b>1</b> ft. Weight <b>SDR 21</b> lbs./ft. <b>7 7/8</b> in. to <b>121</b> ft. depth Grouted Drill Hole Diameter Drive Shoe <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>8 SCREEN:</b> <input type="checkbox"/> Not Installed Type <b>PVC - Bigfoot</b> Diameter <b>3"</b> Slot/Gauze <b>25 slot</b> Length <b>7'</b> Set between <b>114</b> ft. and <b>121</b> ft. FITTINGS: <input checked="" type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen <b>1</b> ft. Other _____		
<b>9 STATIC WATER LEVEL:</b> <b>94</b> ft. below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL:</b> below land surface _____ ft. after _____ hrs. pumping at _____ G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.		
<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From _____ to _____ ft. <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____		
<b>13 Nearest source of possible contamination</b> Type <b>septic</b> Distance <b>50+ft.</b> Direction <b>West</b> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP:</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name <b>Duro</b> Model number <b>9DD7</b> HP <b>3/4</b> Volts <b>230</b> Length of Drop Pipe <b>100</b> ft. capacity <b>9+</b> G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: <b>Duro</b> Manufacturer's name Model number <b>52</b> Capacity <b>52</b> Gallons		
<b>15. Remarks, elevation, source of data, etc.</b>		
<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Kropp Well Drilling Inc 0795</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>6010 M-72 West Traverse City MI 49684</b> Signed <b>Kathy J. Kalchak</b> Date <b>9/14/87</b> AUTHORIZED REPRESENTATIVE		
<b>17. Rig Operator's Name:</b> <b>Robert Miller</b>		











**1 LOCATION OF WELL**

County: GRAND TRAVERSE Township Name: PARADISE Fraction: SE 1/4 SE 1/4 SE 1/4 Section Number: 8 Town Number: 25 N/S Range Number: 10 E/W

Distance And Direction From Road Intersection: APPROX 300' NORTH OF KINGSLEY & SPARLING RD INTERSECTION ON KINGSLEY RD ON THE WEST SIDE

Street Address & City of Well Location: KINGSLEY RD.

Locate with "X" in Section Below Sketch Map:

**2 FORMATION DESCRIPTION**

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>sand</u>	<u>30</u>	<u>30</u>
<u>clay</u>	<u>88</u>	<u>108</u>
<u>water sand</u>	<u>87</u>	<u>135</u>

**3 OWNER OF WELL:** BOB + KIM LEUCK  
Address: KINGSLEY MI  
Address Same As Well Location?  Yes  No

**4 WELL DEPTH:** 135 FT. Date Completed: 8/9/88  New Well  Replacement Well

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

**6 USE:**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

**7 CASING:** Diameter: 5 in. to 130 ft. depth  
 Steel  Threaded  Welded  
 Plastic  Height: Above/Below Surface      ft.  
Weight      lbs./ft.  
Grouded Drill Hole Diameter: 7 1/2 in. to      ft. depth  
Drive Shoe  Yes  No

**8 SCREEN:**  Not Installed  
Type: Stainless Diameter: 4  
Slot/Gauge: 12 Length: 5  
Set between 130 ft. and 135 ft.  
FITTINGS:  K-Packer  Lead Packer  Bromer Check  
 Blank above screen 2 ft. Other     

**9 STATIC WATER LEVEL:** 106 ft. below land surface  Flow

**10 PUMPING LEVEL:** below land surface  
118 ft. after 1 hrs. pumping at 35 G.P.M.  
     ft. after      hrs. pumping at      G.P.M.

**11 WELL HEAD COMPLETION:**  Pitless adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From 0 to 106 ft.  
 Neat cement  Bentonite  Other       
No. of bags of cement      Additives     

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

**14 PUMP:**  Not Installed  Pump Installation Only  
Manufacturer's name: Went & Walling  
Model number: 44-DAB7 HP: 3/4 Volts: 230  
Length of Drop Pipe: 118 ft. capacity: 12 G.P.M.  
TYPE:  Submersible  Jet  
PRESSURE TANK:  
Manufacturer's name: well tank  
Model number: 302 Capacity: 86.0 Gallons

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

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

RECEIVED  
Mich. Dept. of Public Health  
OCT 12 1988

USE A 2ND SHEET IF NEEDED Bureau of Environmental Health - GVS

**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.  
Signature: Clifford Walling 28-1244  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address: 10410 State Highway 400, Grand Haven, MI 49431  
Signed: Clifford Walling Date: 8-9-88  
AUTHORIZED REPRESENTATIVE

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





