

*Charlie*  
*JFK*  
*FYI*

*Lee*

33 Haddonfield Road, Suite 310, Cherry Hill, New Jersey 08002



7 August 1996

Michael DiPietro  
Division of Hazardous Waste Remediation  
New York State Department of Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-7010

Subject: Reynolds Metals Can Plant Site Remediation  
Recovery Well Development Proposal  
Project #10977-02

Dear Mr. DiPietro:

During well development of selected recovery wells installed at the subject site, poor groundwater yields were observed. Based upon the observed poor yields, EARTH TECH is proposing to conduct additional well development techniques to attempt to increase groundwater production in these wells. The recovery wells requiring additional development are RW-1, RW-3, RW-6, RW-7, RW-9, RW-10, RW-11 and RW-13.

EARTH TECH proposes using a local subcontractor, Best Well Drilling, who is knowledgeable of similar well development problems in the site aquifer. The method proposed involves jetting the wells by using pressurized potable water in an attempt to dislodge silt and fine sand trapped in the sand pack during well installation.

EARTH TECH is proposing this additional development method to ensure that the lack of groundwater yield is not due to well construction but a characteristic of the aquifer.

We have included as an attachment the recovery well construction logs for your review. Please contact us as soon as possible with any comments concerning the proposed well development activities.

Telephone  
609.482.5553  
Facsimile  
609.482.6514

Mike DiPietro  
Page 2  
7 August 1996

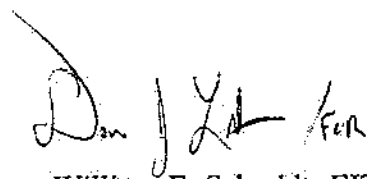
If you have any questions concerning this submittal or this project feel free to contact us at 609-482-5553.

Very truly yours,

**EARTH TECH, Inc.**



David J. Russell, P.E.  
Project Manager



William F. Schmidt, EIT  
Project Engineer



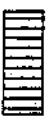


Attachment

cc: K. Kinton  
Director, Bureau of Environmental Exposure Investigation  
Regional Director, Region 7  
Rosalie K. Rusinko, Esq.

F:\wpdocs\dave\miller\welipro.cor

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-1</b>
SITE LOCATION <b>North of Existing Stripper Building</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>D. Libenson</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>7/1/96</b>
		DATE COMPLETED <b>7/2/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

		UNSLOTTED PVC	GROUT
		SLOTTED PVC	SEAL
			FILTER PACK

QUANTITY	MATERIALS USED
15'	SCREEN
55'	RISER
1	CAPS
0	LOCK
12	SAND
2	SEAL
17	PORTLAND
1	BENTONITE
0	POWDER
0	CEMENT MIX
0	FLUSH MOUNT
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATION**

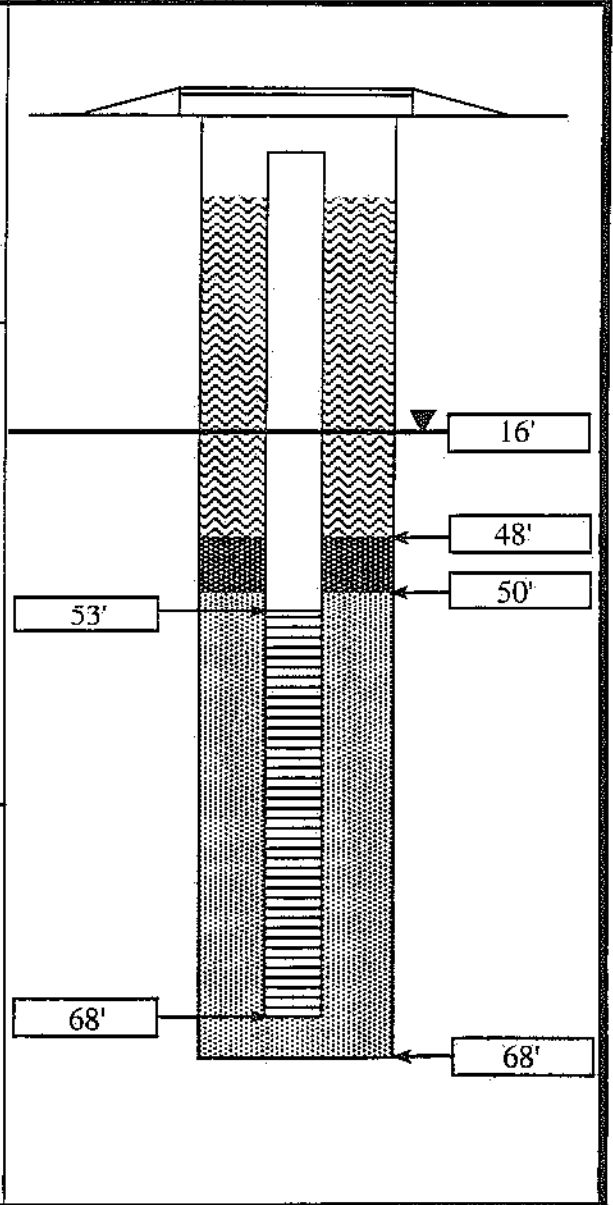
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 16.75 '.

DEVELOPED WELL FOR 6 HOURS BY pump, surge & block.

AFTER 6 HOURS OF DEVELOPMENT, YIELD WAS 1 GPM.

DRAWDOWN = \_\_\_\_\_

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.








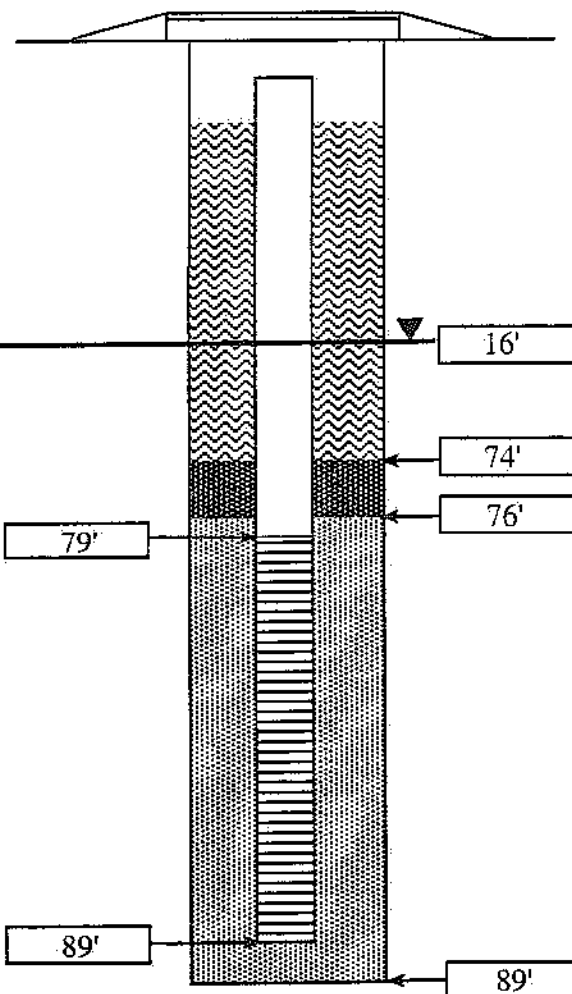
EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-2</b>
SITE LOCATION <b>East of Existing Stripper Building</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>6/20/96</b>
		DATE COMPLETED <b>6/24/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK



QUANTITY	MATERIALS USED
10'	SCREEN
80'	RISER
1	CAPS
0	LOCK
10	SAND
2	SEAL
20	PORTLAND
2	BENTONITE
0	POWDER
0	CEMENT MIX
0	FLUSH MOUNT.
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATON**

STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 16.51 '.

DEVELOPED WELL FOR 4 HOURS BY pump, surge & block.

AFTER 4 HOURS OF DEVELOPMENT, YIELD WAS 10 GPM.

DRAWDOWN = \_\_\_\_\_.






SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.

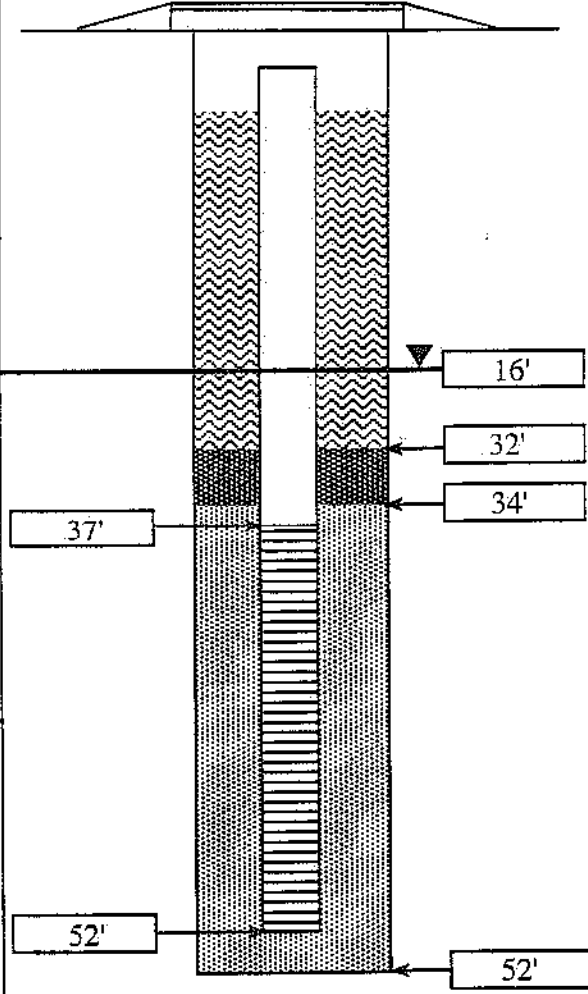
EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-3</b>
SITE LOCATION <b>Adjacent to North Gate</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>6/18/96</b>
		DATE COMPLETED <b>6/19/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK



QUANTITY	MATERIALS USED
15'	SCREEN
40'	RISER
1	CAPS
0	LOCK
12	SAND
2	SEAL
12	PORTLAND
1	BENTONITE
0	POWDER
0	CEMENT MIX
0	FLUSH MOUNT
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATON**

STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 16.40

DEVELOPED WELL FOR 8 HOURS BY pump, surge & block

AFTER 8 HOURS OF DEVELOPMENT, YIELD WAS 1 GPM.






DRAWDOWN = \_\_\_\_\_

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.

EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-4</b>
SITE LOCATION <b>Northeast of RW-3</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>6/19/96</b>
		DATE COMPLETED <b>6/20/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK

QUANTITY	MATERIALS USED
15'	SCREEN
40'	RISER
1	CAPS
0	LOCK
10	SAND
2	SEAL
15	PORTLAND
1.5	BENTONITE
0	POWDER
0	CEMENT MIX
0	FLUSH MOUNT
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATON**

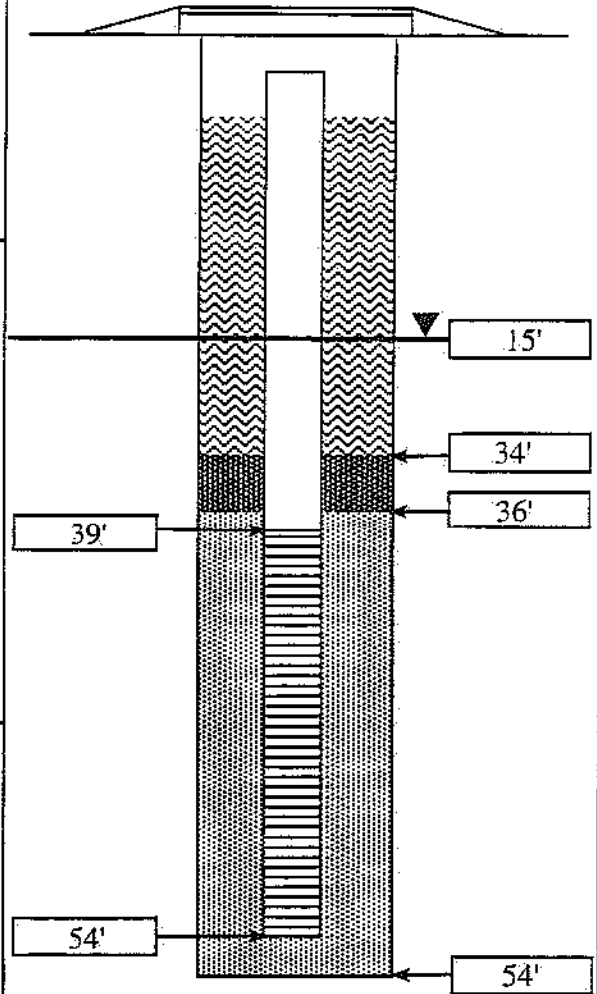
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 15.78 '.

DEVELOPED WELL FOR 8 HOURS BY pump, surge & block.

AFTER 8 HOURS OF DEVELOPMENT, YIELD WAS 4.5 GPM.

DRAWDOWN = \_\_\_\_\_.

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.



EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-5</b>
SITE LOCATION <b>Adjacent to Northwest Corner of Building</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>7/9/96</b>
		DATE COMPLETED <b>7/9/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION



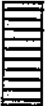


QUANTITY	MATERIALS USED	
15'	SCREEN	
50'	RISER	
1	CAPS	
0	LOCK	
13	SAND	
2	SEAL	
13	PORTLAND	
1.5	BENTONITE	
0	POWDER	
0	CEMENT MIX	
0	FLUSH MOUNT	
0	DRUMS-CUTTINGS	
0	DRUMS-WATER	

DEVELOPMENT INFORMATION	
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS <u>19.34</u> '.	
DEVELOPED WELL FOR <u>8</u> HOURS BY <u>pump, surge &amp; block</u> .	
AFTER <u>8</u> HOURS OF DEVELOPMENT, YIELD WAS <u>5</u> GPM.	
DRAWDOWN = _____.	
SPECIFIC CAPACITY = _____ GPM/FOOT OF DRAWDOWN.	











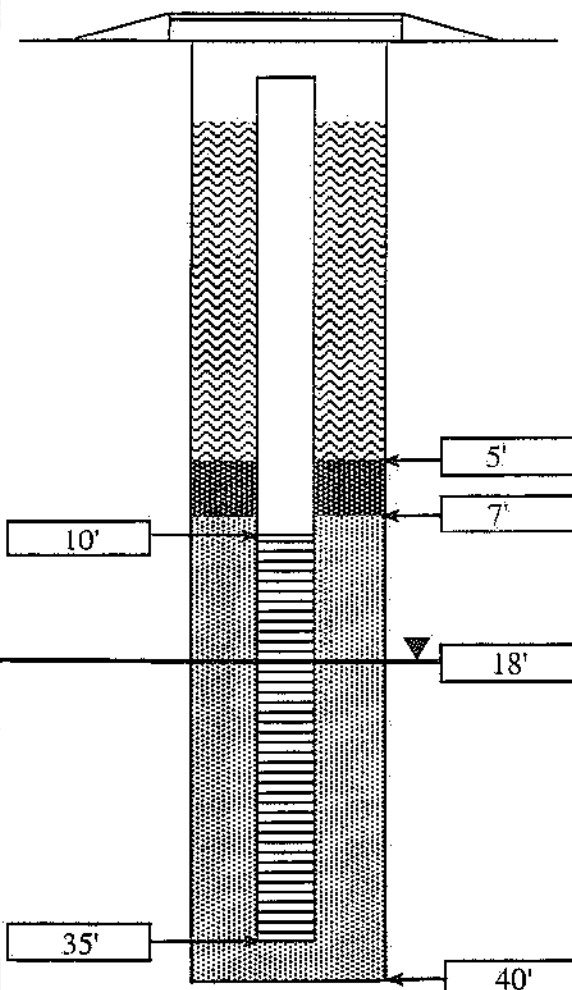





  

**LEGEND**

		UNSLOTTED PVC	GROUT
		SLOTTED PVC	SEAL
			FILTER PACK

The diagram shows a vertical cross-section of a well. From top to bottom, it features a riser pipe, a screen section, a seal, and a filter pack. Depth markers on the right side indicate: 19' (top of screen), 41' (top of seal), 43' (top of filter pack), 46' (top of casing), and 61' (bottom of casing). A water level is indicated by a downward-pointing triangle at 19'.

EN. - ENCOUNTERED  
ST. - STABILIZED



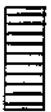


PROJECT NO. <p style="text-align: center;">1097702</p>	CLIENT <p style="text-align: center;">Miller Brewing</p>	WELL NO. <p style="text-align: center;">RW-6</p>												
SITE LOCATION <p style="text-align: center;">Inside Reynolds Building</p>		ELEVATION AND DATUM <p style="text-align: center;">Floor Grade</p>												
DRILLING CONTRACTOR <p style="text-align: center;">Parratt Wolfe</p>	DRILLER <p style="text-align: center;">Joe Percy</p>	LOGGED BY <p style="text-align: center;">B. Schmidt</p>												
DRILLING RIG TYPE <p style="text-align: center;">Ingersol Rand</p>	DRILLING METHOD <p style="text-align: center;">HSA</p>	DATE STARTED <p style="text-align: center;">7/10/96</p>												
		DATE COMPLETED <p style="text-align: center;">7/10/96</p>												
WELL PERMIT NUMBER	DIAMETER OF BORING <p style="text-align: center;">14"</p>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION												
<p style="text-align: center;">LEGEND</p> <table style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%;">UNSLOTTED PVC</td> <td style="width: 30%;"></td> <td>GROUT</td> </tr> <tr> <td></td> <td>SLOTTED PVC</td> <td></td> <td>SEAL</td> </tr> <tr> <td></td> <td></td> <td></td> <td>FILTER PACK</td> </tr> </table>			UNSLOTTED PVC		GROUT		SLOTTED PVC		SEAL				FILTER PACK	
	UNSLOTTED PVC		GROUT											
	SLOTTED PVC		SEAL											
			FILTER PACK											
<p>QUANTITY</p> <p><u>  25  </u> SCREEN</p> <p><u>  10  </u> RISER</p> <p><u>  1  </u> CAPS</p> <p><u>  0  </u> LOCK</p> <p><u>  8  </u> morie-0.22 morie-1 SAND</p> <p><u>  2  </u> SEAL</p> <p><u>  3  </u> PORTLAND</p> <p><u>  5  </u> BENTONITE</p> <p><u>  0  </u> POWDER</p> <p><u>  0  </u> CEMENT MIX</p> <p><u>  0  </u> FLUSH MOUNT</p> <p><u>  0  </u> DRUMS-CUTTINGS</p> <p><u>  0  </u> DRUMS-WATER</p>	<p>MATERIALS USED</p>													
<p style="text-align: center;">DEVELOPMENT INFORMATION</p> <p>STATIC WATER LEVEL BEFORE DEVELOPMENT WAS <u>  18.75  </u></p> <p>DEVELOPED WELL FOR <u>  4  </u> HOURS BY <u>  pump, surge &amp; block  </u></p> <p>AFTER <u>  4  </u> HOURS OF DEVELOPMENT, YIELD WAS <u>  1.5  </u> GPM.</p> <p>DRAWDOWN = <u>          </u></p> <p>SPECIFIC CAPACITY = <u>          </u> GPM/FOOT OF DRAWDOWN.</p>														

EN. - ENCOUNTERED  
ST. - STABILIZED



PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-7</b>
SITE LOCATION <b>Inside Reynolds Building</b>		ELEVATION AND DATUM <b>Floor Grade</b>
DRILLING CONTRACTOR <b>Parratt Wolfe</b>	DRILLER <b>Joe Percy</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Ingersol Rand</b>	DRILLING METHOD <b>HSA</b>	DATE STARTED <b>7/11/96</b>
		DATE COMPLETED <b>7/11/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK

QUANTITY	MATERIALS USED
<u>25'</u>	SCREEN
<u>10'</u>	RISER
<u>1</u>	CAPS
<u>0</u>	LOCK
<u>8 morie-0. 22 morie-1</u>	SAND
<u>2</u>	SEAL
<u>3</u>	PORTLAND
<u>.5</u>	BENTONITE
<u>0</u>	POWDER
<u>0</u>	CEMENT MIX
<u>0</u>	FLUSH MOUNT
<u>0</u>	DRUMS-CUTTINGS
<u>0</u>	DRUMS-WATER

**DEVELOPMENT INFORMATION**

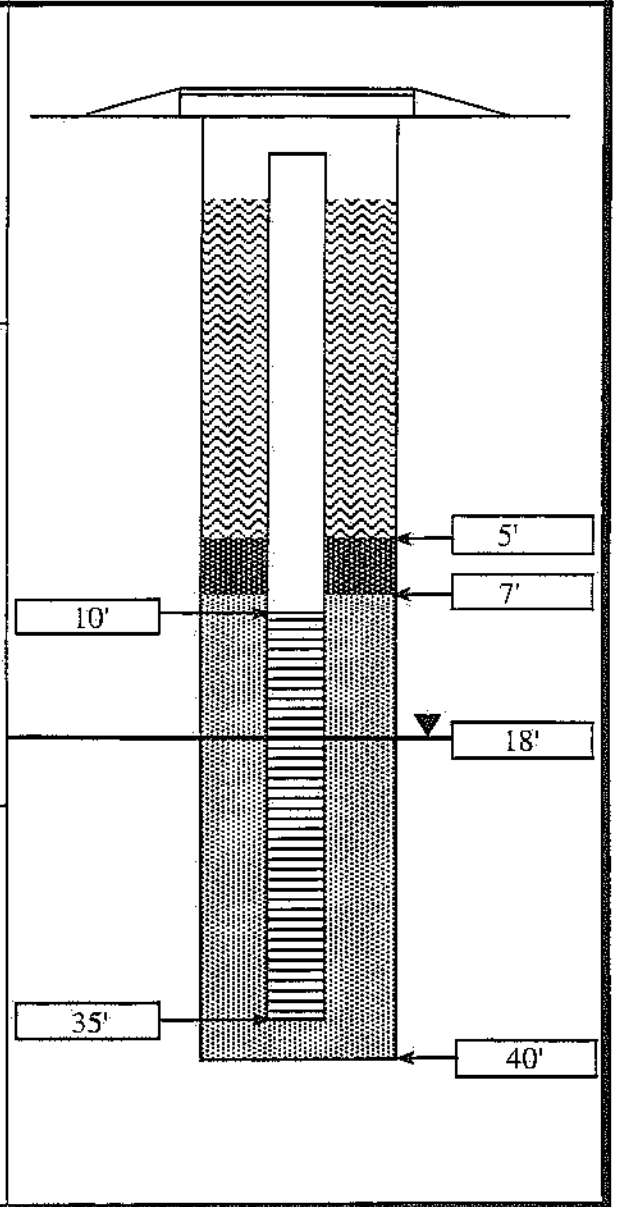
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 18.63 '.

DEVELOPED WELL FOR 4 HOURS BY pump, surge & block.

AFTER 4 HOURS OF DEVELOPMENT, YIELD WAS 1.5 GPM.

DRAWDOWN = \_\_\_\_\_.






SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.



EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <p style="text-align: center;">1097702</p>	CLIENT <p style="text-align: center;">Miller Brewing</p>	WELL NO. <p style="text-align: center;">RW-8</p>
SITE LOCATION <p style="text-align: center;">Southwest of Reynolds Building</p>		ELEVATION AND DATUM <p style="text-align: center;">Grade</p>
DRILLING CONTRACTOR <p style="text-align: center;">B &amp; B Drilling</p>	DRILLER <p style="text-align: center;">R. Gryzinski</p>	LOGGED BY <p style="text-align: center;">B. Schmidt</p>
DRILLING RIG TYPE <p style="text-align: center;">Mobile B-61</p>	DRILLING METHOD <p style="text-align: center;">Water Rotary</p>	DATE STARTED <p style="text-align: center;">6/25/96</p>
		DATE COMPLETED <p style="text-align: center;">6/25/96</p>
WELL PERMIT NUMBER	DIAMETER OF BORING <p style="text-align: center;">14"</p>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK

QUANTITY	MATERIALS USED
<u>15'</u>	SCREEN
<u>45'</u>	RISER
<u>1</u>	CAPS
<u>0</u>	LOCK
<u>19</u>	SAND
<u>2</u>	SEAL
<u>12</u>	PORTLAND BENTONITE
<u>1</u>	POWDER
<u>0</u>	CEMENT MIX
<u>0</u>	FLUSH MOUNT
<u>0</u>	DRUMS-CUTTINGS
<u>0</u>	DRUMS-WATER

**DEVELOPMENT INFORMATION**

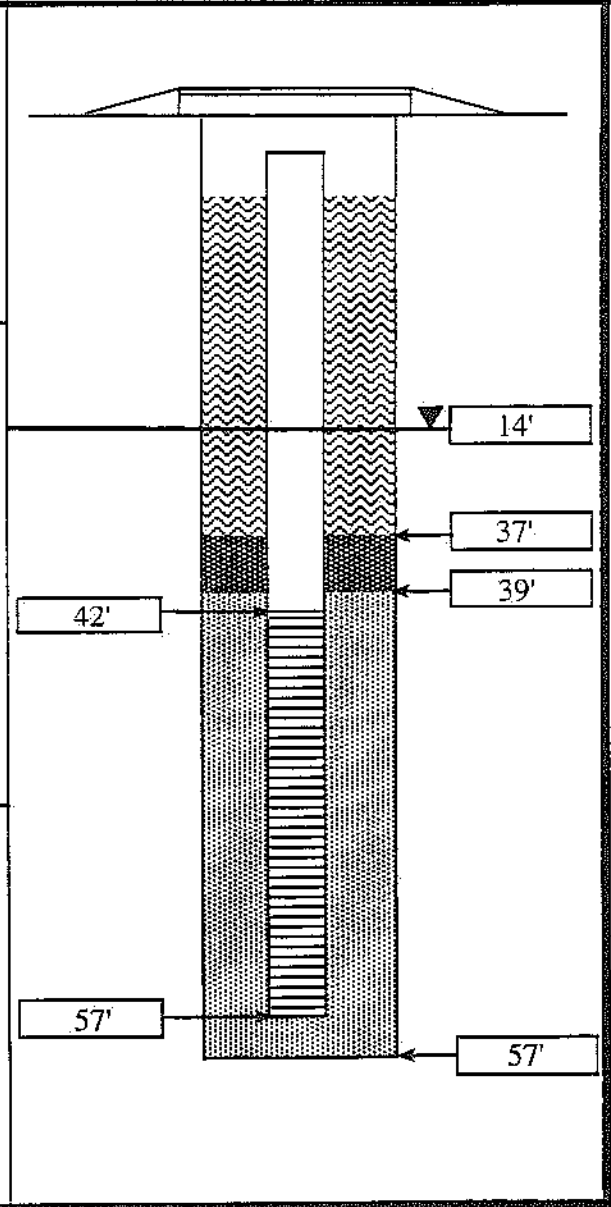
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 13.8 '.

DEVELOPED WELL FOR 5 HOURS BY pump, surge & block.

AFTER 5 HOURS OF DEVELOPMENT, YIELD WAS 10 GPM.

DRAWDOWN = \_\_\_\_\_

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.








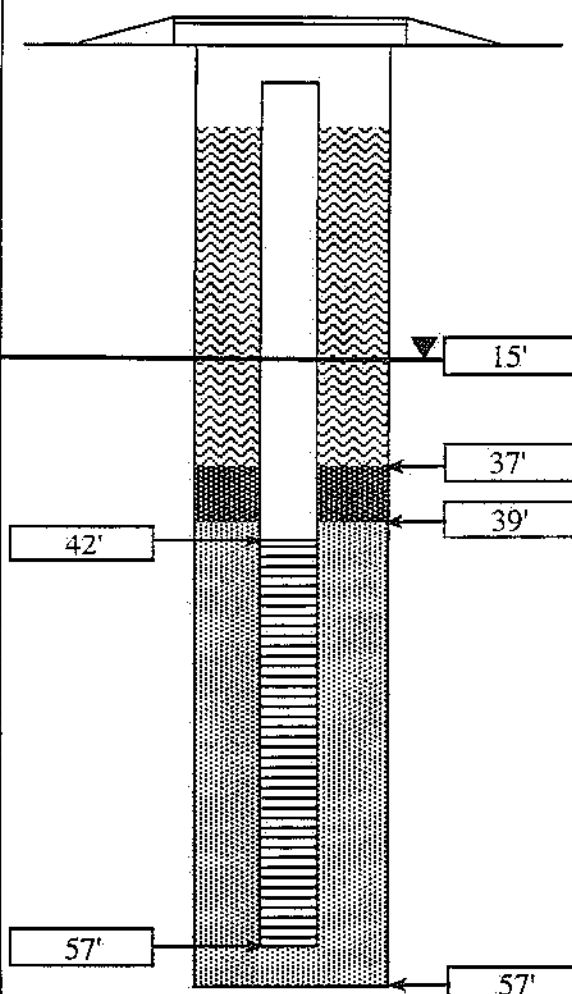
EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO: <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-9</b>
SITE LOCATION <b>North of RW-8</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>6/26/96</b>
		DATE COMPLETED <b>6/26/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK



QUANTITY	MATERIALS USED
15'	SCREEN
45'	RISER
1	CAPS
0	LOCK
13	SAND
2	SEAL
9	PORTLAND BENTONITE
1	POWDER
0	CEMENT MIX
0	FLUSH MOUNT
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATION**

STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 15.10 '.

DEVELOPED WELL FOR 14 HOURS BY pump, surge & block.

AFTER 14 HOURS OF DEVELOPMENT, YIELD WAS 1 GPM.






DRAWDOWN = \_\_\_\_\_.

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.

EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-10</b>
SITE LOCATION <b>Southeast of Taylor Property</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>HSA</b>	DATE STARTED <b>6/12/96</b>
		DATE COMPLETED <b>6/13/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

	UNSLOTTED PVC		GROUT
	SLOTTED PVC		SEAL
			FILTER PACK

QUANTITY	MATERIALS USED
<u>5</u>	SCREEN
<u>35</u>	RISER
<u>1</u>	CAPS
<u>0</u>	LOCK
<u>6</u>	SAND
<u>2</u>	SEAL
<u>14</u>	PORTLAND
<u>1</u>	BENTONITE
<u>0</u>	POWDER
<u>0</u>	CEMENT MIX
<u>0</u>	FLUSH MOUNT
<u>0</u>	DRUMS-CUTTINGS
<u>0</u>	DRUMS-WATER

**DEVELOPMENT INFORMATION**

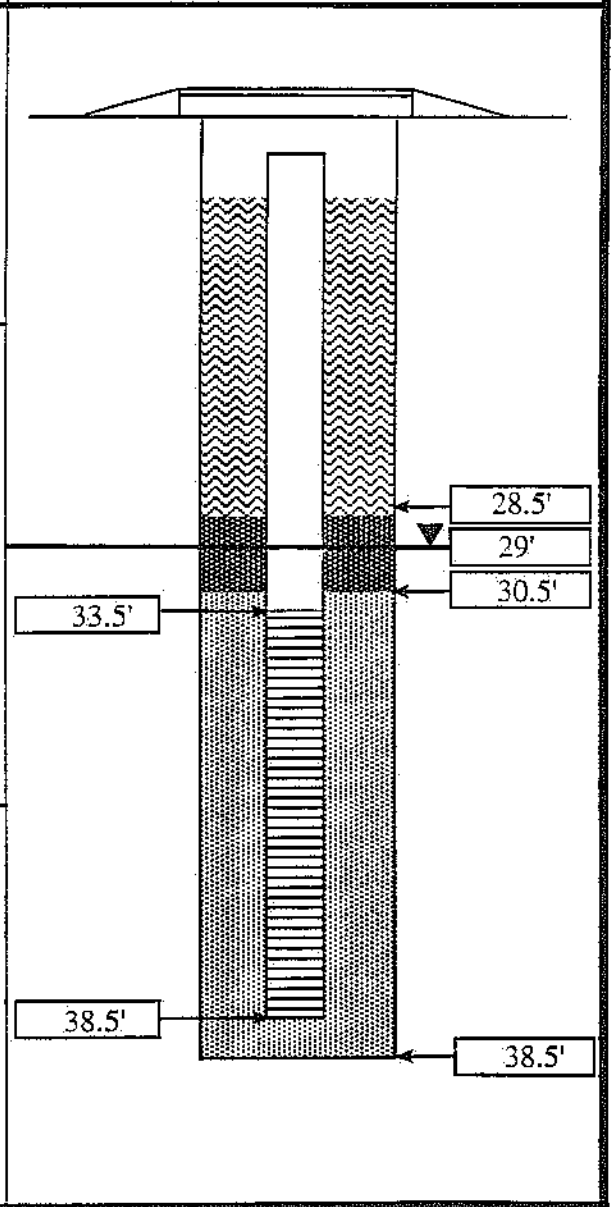
STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 28.64

DEVELOPED WELL FOR 4 HOURS BY pump, surge & block

AFTER 4 HOURS OF DEVELOPMENT, YIELD WAS 1 GPM.

DRAWDOWN = \_\_\_\_\_

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.



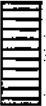




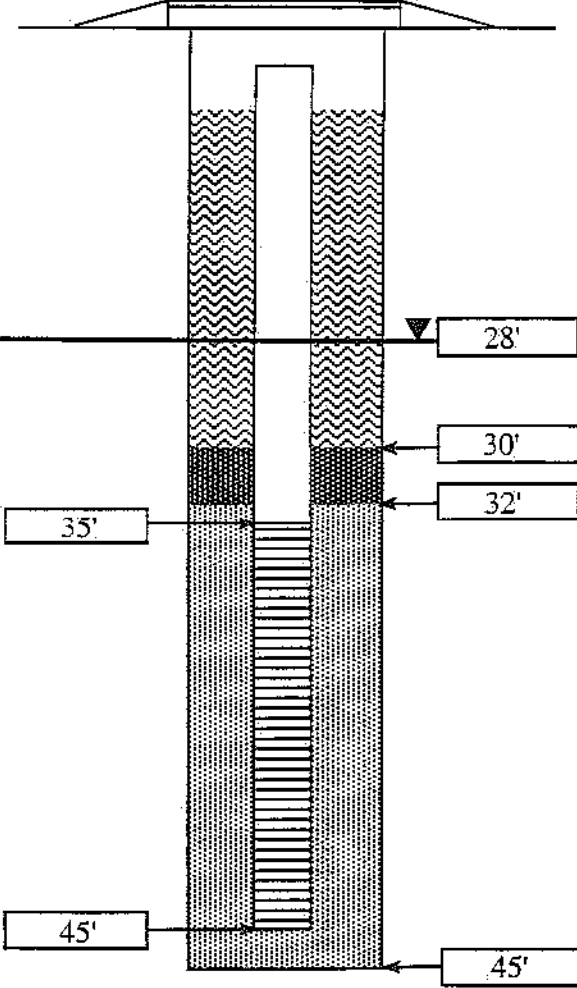
EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-11</b>
SITE LOCATION <b>North of RW-10</b>		ELEVATION AND DATUM <b>Grade</b>
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>HSA</b>	DATE STARTED <b>6/13/96</b>
		DATE COMPLETED <b>6/14/96</b>
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION

**LEGEND**

		UNSLOTTED PVC	GROUT
		SLOTTED PVC	SEAL
			FILTER PACK



QUANTITY	MATERIALS USED
10'	SCREEN
40'	RISER
1	CAPS
0	LOCK
8	SAND
2	SEAL
16	PORTLAND
2	BENTONITE
0	POWDER
0	CEMENT MIX
0	FLUSH MOUNT
0	DRUMS-CUTTINGS
0	DRUMS-WATER

**DEVELOPMENT INFORMATON**

STATIC WATER LEVEL BEFORE DEVELOPMENT WAS 28.29 '.











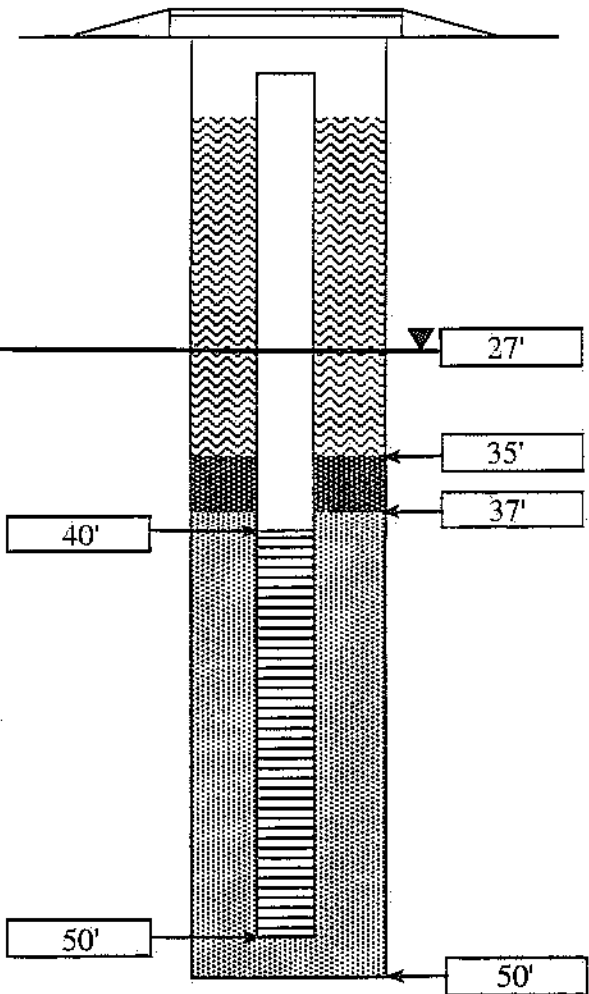





DEVELOPED WELL FOR 4 HOURS BY pump, surge & block.

AFTER 4 HOURS OF DEVELOPMENT, YIELD WAS 1 GPM.

DRAWDOWN = \_\_\_\_\_

SPECIFIC CAPACITY = \_\_\_\_\_ GPM/FOOT OF DRAWDOWN.











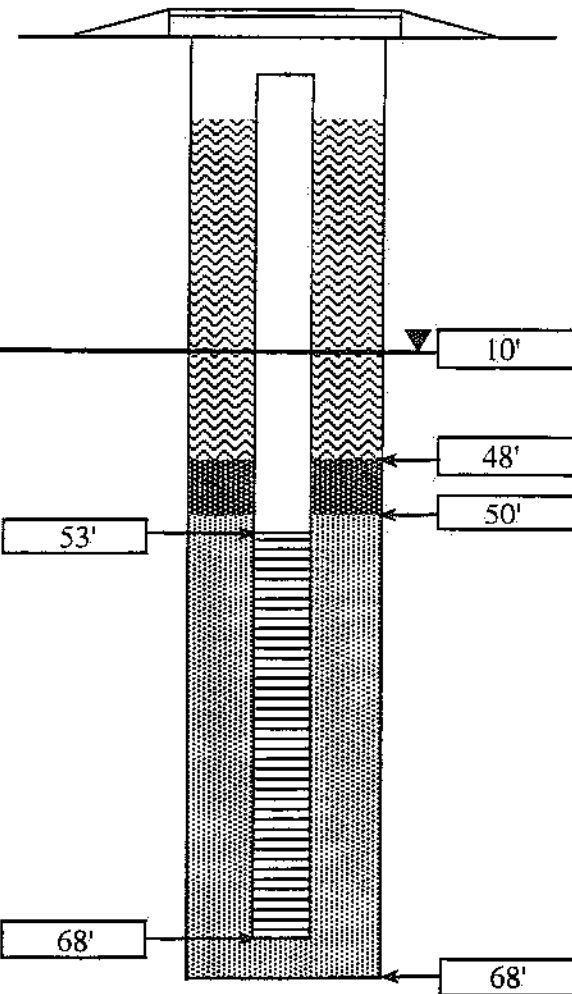





EN. - ENCOUNTERED  
ST. - STABILIZED

PROJECT NO. <p style="text-align: center;">1097702</p>	CLIENT <p style="text-align: center;">Miller Brewing</p>	WELL NO. <p style="text-align: center;">RW-12</p>																						
SITE LOCATION <p style="text-align: center;">North of RW-11</p>		ELEVATION AND DATUM <p style="text-align: center;">Grade</p>																						
DRILLING CONTRACTOR <p style="text-align: center;">B &amp; B Drilling</p>	DRILLER <p style="text-align: center;">R. Gryzinski</p>	LOGGED BY <p style="text-align: center;">B. Schmidt</p>																						
DRILLING RIG TYPE <p style="text-align: center;">Mobile B-61</p>	DRILLING METHOD <p style="text-align: center;">HSA</p>	DATE STARTED <p style="text-align: center;">6/14/96</p>																						
DATE COMPLETED <p style="text-align: center;">6/15/96</p>	WELL PERMIT NUMBER	DIAMETER OF BORING <p style="text-align: center;">14"</p>																						
FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION																								
<p style="text-align: center;"><b>LEGEND</b></p> <table style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%;">UNSLOTTED PVC</td> <td style="width: 30%;"></td> <td>GROUT</td> </tr> <tr> <td></td> <td>SLOTTED PVC</td> <td></td> <td>SEAL</td> </tr> <tr> <td></td> <td></td> <td></td> <td>FILTER PACK</td> </tr> </table>			UNSLOTTED PVC		GROUT		SLOTTED PVC		SEAL				FILTER PACK											
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<table style="width: 100%;"> <thead> <tr> <th style="text-align: left;">QUANTITY</th> <th style="text-align: left;">MATERIALS USED</th> </tr> </thead> <tbody> <tr><td><u>10'</u></td><td>SCREEN</td></tr> <tr><td><u>45'</u></td><td>RISER</td></tr> <tr><td><u>1</u></td><td>CAPS</td></tr> <tr><td><u>0</u></td><td>LOCK</td></tr> <tr><td><u>7</u></td><td>SAND</td></tr> <tr><td><u>2</u></td><td>SEAL</td></tr> <tr><td><u>18</u></td><td>PORTLAND BENTONITE POWDER</td></tr> <tr><td><u>2</u></td><td>CEMENT MIX</td></tr> <tr><td><u>0</u></td><td>FLUSH MOUNT</td></tr> <tr><td><u>0</u></td><td>DRUMS-CUTTINGS</td></tr> <tr><td><u>0</u></td><td>DRUMS-WATER</td></tr> </tbody> </table>	QUANTITY	MATERIALS USED	<u>10'</u>	SCREEN	<u>45'</u>	RISER	<u>1</u>	CAPS	<u>0</u>	LOCK	<u>7</u>	SAND	<u>2</u>	SEAL	<u>18</u>	PORTLAND BENTONITE POWDER	<u>2</u>	CEMENT MIX	<u>0</u>	FLUSH MOUNT	<u>0</u>	DRUMS-CUTTINGS	<u>0</u>	DRUMS-WATER
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<u>0</u>	DRUMS-WATER																							
<p style="text-align: center;"><b>DEVELOPMENT INFORMATON</b></p> <p>STATIC WATER LEVEL BEFORE DEVELOPMENT WAS <u>27.56</u> '.</p> <p>DEVELOPED WELL FOR <u>4</u> HOURS BY <u>pump, surge &amp; block</u>.</p> <p>AFTER <u>4</u> HOURS OF DEVELOPMENT, YIELD WAS <u>4</u> GPM.</p> <p>DRAWDOWN = _____.</p> <p>SPECIFIC CAPACITY = _____ GPM/FOOT OF DRAWDOWN.</p>																								

EN. - ENCOUNTERED  
ST. - STABILIZED

# EARTH TECH

53 HADDONFIELD ROAD, SUITE 316, CHERRY HILL, NEW JERSEY 08002

PROJECT NO. <b>1097702</b>	CLIENT <b>Miller Brewing</b>	WELL NO. <b>RW-13</b>												
SITE LOCATION <b>North of RW-1</b>		ELEVATION AND DATUM <b>Grade</b>												
DRILLING CONTRACTOR <b>B &amp; B Drilling</b>	DRILLER <b>R. Gryzinski</b>	LOGGED BY <b>B. Schmidt</b>												
DRILLING RIG TYPE <b>Mobile B-61</b>	DRILLING METHOD <b>Water Rotary</b>	DATE STARTED <b>6/27/96</b>												
		DATE COMPLETED <b>6/27/96</b>												
WELL PERMIT NUMBER	DIAMETER OF BORING <b>14"</b>	FLUSH MOUNT COMPLETION IN UNCONSOLIDATED FORMATION												
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		UNSLOTTED PVC	GROUT											
		SLOTTED PVC	SEAL											
			FILTER PACK											
<p><b>QUANTITY</b></p> <p><u>15'</u></p> <p><u>55'</u></p> <p><u>1</u></p> <p><u>0</u></p> <p><u>12</u></p> <p><u>2</u></p> <p><u>15</u></p> <p><u>1.5</u></p> <p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p>	<p><b>MATERIALS USED</b></p> <p>SCREEN</p> <p>RISER</p> <p>CAPS</p> <p>LOCK</p> <p>SAND</p> <p>SEAL</p> <p>PORTLAND BENTONITE</p> <p>POWDER</p> <p>CEMENT MIX</p> <p>FLUSH MOUNT</p> <p>DRUMS-CUTTINGS</p> <p>DRUMS-WATER</p>													
<p style="text-align: center;"><b>DEVELOPMENT INFORMATION</b></p> <p>STATIC WATER LEVEL BEFORE DEVELOPMENT WAS <u>7.58</u></p> <p>DEVELOPED WELL FOR <u>4</u> HOURS BY <u>pump, surge &amp; block</u></p> <p>AFTER <u>4</u> HOURS OF DEVELOPMENT, YIELD WAS <u>1</u> GPM.</p> <p>DRAWDOWN = _____</p> <p>SPECIFIC CAPACITY = _____ GPM/FOOT OF DRAWDOWN.</p>														

EN. - ENCOUNTERED  
ST. - STABILIZED