



April 24, 2015

Ms. Susan Bull  
Maryland Department of the Environment  
Oil Control Program  
1800 Washington Boulevard  
Baltimore, MD 21230

**Re: Well Abandonment  
Royal Farms Store #001  
2620 Mountain Road  
Joppa, MD 21085  
AEC Project Number: 05-056-RF001**

Dear Ms. Bull:

On April 1, 2015, a total of five 2-inch-diameter groundwater monitoring wells were abandoned (MW-1 through MW-5). The wells were abandoned by Carl Hugo, a licensed Maryland Well Driller in accordance with Maryland State Regulations. Copies of the Well Abandonment Forms and a Site Map are attached.

Please contact the undersigned at (301) 776-0500 if you have any questions.

Sincerely,

***ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC.***

A handwritten signature in black ink, appearing to read 'Jeremy Sheidy'.

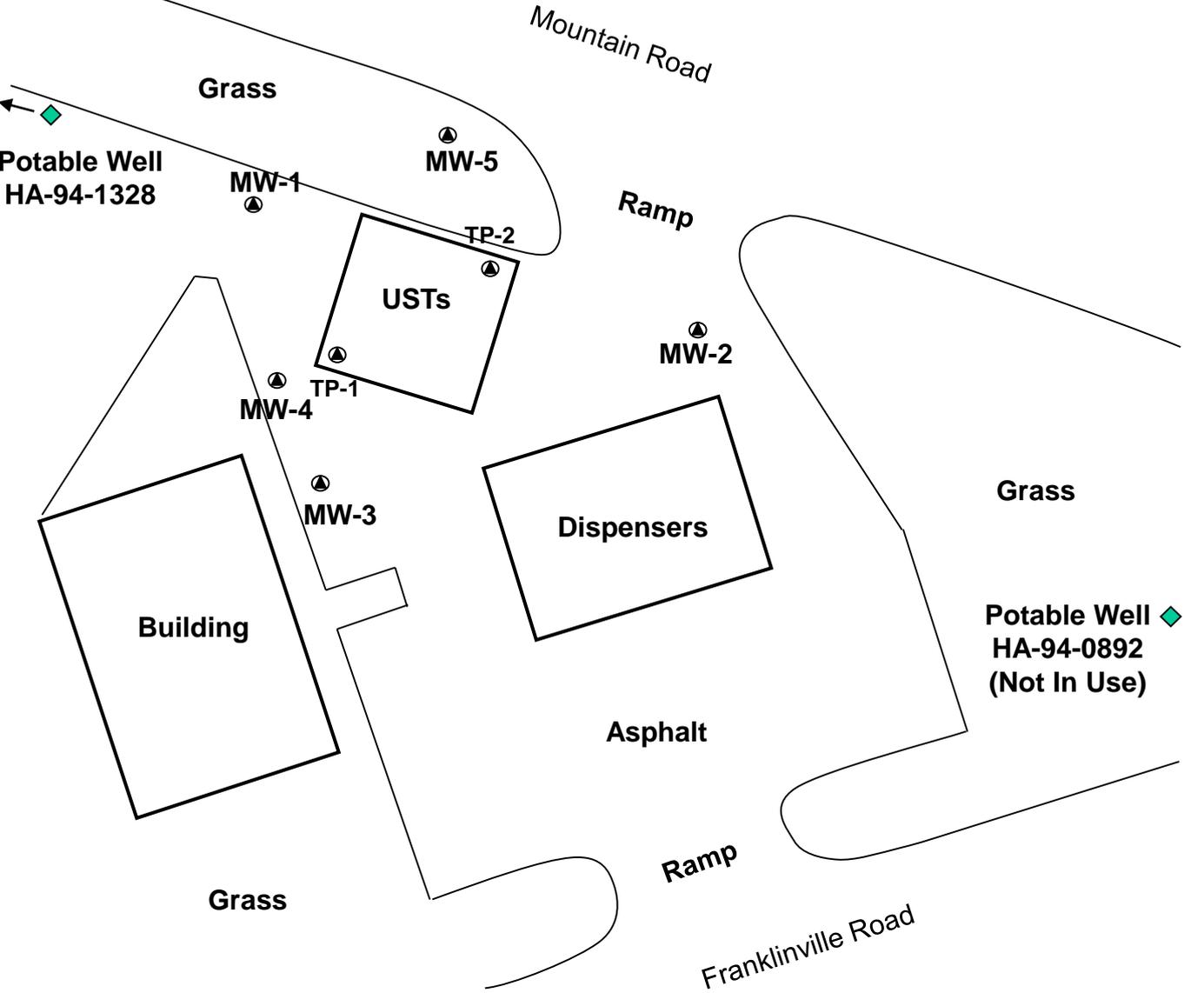
Jeremy Sheidy  
Project Manager

A handwritten signature in black ink, appearing to read 'Jeff Stein'.

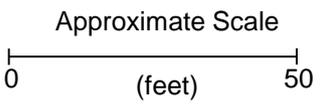
Jeff Stein  
Principal

cc: Ms. Jeannette DeBartolomeo, MDE OCP  
Mr. Thomas E. Ruszin III, Royal Farms

Attachments



- ◆ Potable Well
- Monitoring Well/Tank Pit Well Location



8610 Washington Boulevard, Suite 217  
 Jessup, Maryland 20794  
 Phone: 301-776-0500 Fax: 301-776-1123

Figure 2 – Site Map  
 Royal Farms Store #1  
 2620 Mountain Road  
 Joppa, Maryland

Work Order No.: 05-056-RF01	Report Date: April 2015	Drawn By: KPP
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 WATER WELL ABANDONMENT-SEALING REPORT FORM  
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SUBMIT COPIES OF COMPLETED FORM TO:

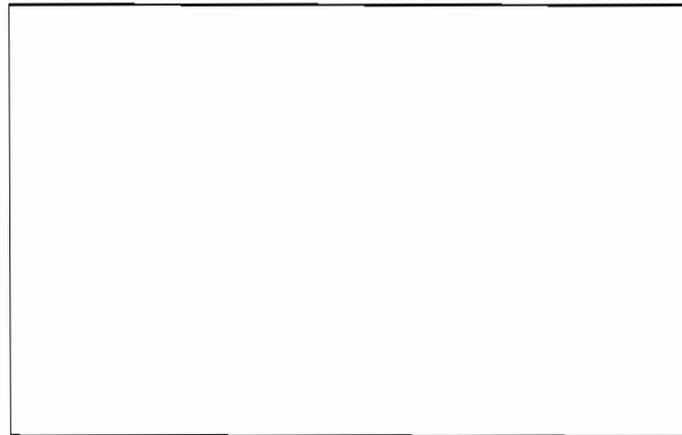
- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: April 1 / 2015 (month/day/year)

- \* PERMIT NUMBER OF ABANDONED WELL (if any) N/A
- \* PERMIT NUMBER OF REPLACEMENT WELL: \_\_\_\_\_
- \* PERSON ABANDONING WELL: Carl Hugo WELL DRILLER'S LICENSE NUMBER: 051
- \* OWNER'S NAME: Royal Farms CIRCLE MWD / MSD / MGD

\* WELL LOCATION:  
 COUNTY: Harford  
 NEAREST TOWN: Joppa  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 STREET ADDRESS: 2620 Mountain Rd Joppa rd  
 LATITUDE 3 \_ . \_ \_ \_ \_ \_  
 LONGITUDE 7 \_ . \_ \_ \_ \_ \_

SITE LOCATION MAP



- \* TYPE OF WELL BEING ABANDONED:  
 DRILLED \_\_\_\_\_ JETTED \_\_\_\_\_  
 BORED \_\_\_\_\_ HAND DUG \_\_\_\_\_  
 OTHER (specify) \_\_\_\_\_
- \* USE CODE:  
 DOMESTIC \_\_\_\_\_ MUNICIPAL/PUBLIC \_\_\_\_\_  
 IRRIGATION \_\_\_\_\_ INDUSTRIAL \_\_\_\_\_  
 TEST/OBSERVATION \_\_\_\_\_ GEOTHERMAL \_\_\_\_\_
- \* TYPE OF CASING:  
 STEEL \_\_\_\_\_  
 CONCRETE \_\_\_\_\_  PLASTIC \_\_\_\_\_  
 OTHER (specify) \_\_\_\_\_

SIZE OF CASING: 8 INCHES IN DIAMETER  
 DEPTH OF WELL: 33 FEET DEEP

WAS ANY CASING REMOVED? YES  NO \_\_\_\_\_  
 If yes, length removed, in feet: \_\_\_\_\_  
 WAS CASING RIPPED OR PERFORATED? YES  NO \_\_\_\_\_  
Carl Hugo 051  
 SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
B2 Sand	33	28
Bentonite Grout	28	0

VOLUME OF MATERIAL USED  
2 FT 3 sand  
5 FT Bentonite Grout  
 MWD / MSD / MGS 051 DATE Apr 17 2015  
 CIRCLE ONE

\*\*\*\*\*  
 WATER WELL ABANDONMENT-SEALING REPORT FORM  
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SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: April 11 / 15 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any) \_\_\_\_\_

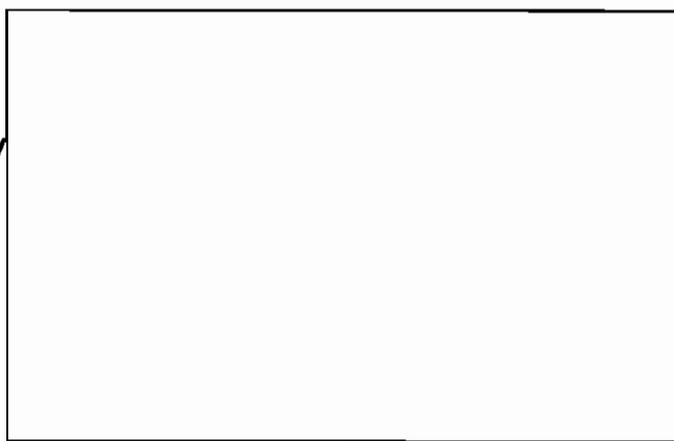
\* PERMIT NUMBER OF REPLACEMENT WELL: \_\_\_\_\_

\* PERSON ABANDONING WELL: Carl Hugo WELL DRILLER'S LICENSE NUMBER: 051

\* OWNER'S NAME: Royal Farms CIRCLE: MWD / MSD / MGD

\* WELL LOCATION:  
 COUNTY: Harford  
 NEAREST TOWN: Joppa  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 STREET ADDRESS: 2620 Mountain Rd Joppa, Md

SITE LOCATION MAP



LATITUDE 3 \_ . \_ \_ \_ \_ \_  
 LONGITUDE 7 \_ . \_ \_ \_ \_ \_

- \* TYPE OF WELL BEING ABANDONED:  
 DRILLED       JETTED  
 BORED       HAND DUG  
 OTHER (specify) \_\_\_\_\_

- \* USE CODE:  
 DOMESTIC       MUNICIPAL/PUBLIC  
 IRRIGATION       INDUSTRIAL  
 TEST/OBSERVATION       GEOTHERMAL

- \* TYPE OF CASING:  
 STEEL       PLASTIC  
 CONCRETE       OTHER (specify) \_\_\_\_\_

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 31 FEET DEEP

WAS ANY CASING REMOVED? YES  NO  
 If yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED? YES  NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
#2 sand	31	28
Perforated Grout	28	0

VOLUME OF MATERIAL USED

sand	12 FT <sup>3</sup>
Grout	15 FT <sup>3</sup>

MWD / MSD / MGS

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

CIRCLE ONE

DATE



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 WATER WELL ABANDONMENT-SEALING REPORT FORM  
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**SUBMIT COPIES OF COMPLETED FORM TO:**

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- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

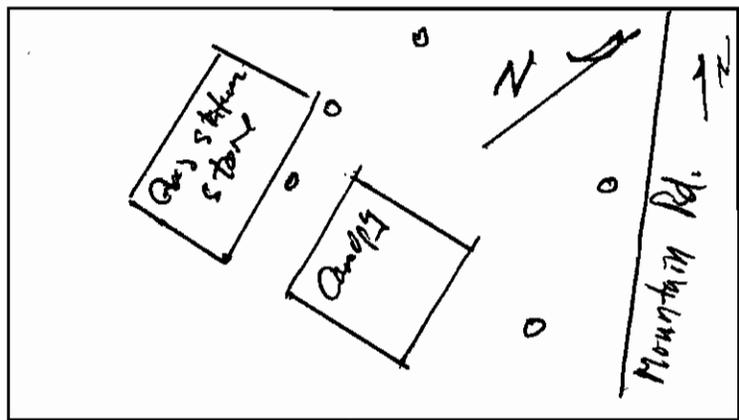
DATE WELL ABANDONED: April 11 / 2015 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any) \_\_\_\_\_  
 \* PERMIT NUMBER OF REPLACEMENT WELL \_\_\_\_\_  
 \* PERSON ABANDONING WELL: Carl Hugo  
 \* OWNER'S NAME: Royal Farms #1  
2620 Mountain Rd - Joppa, Md.  
 \* WELL LOCATION: \_\_\_\_\_  
 COUNTY: Harford  
 NEAREST TOWN: Joppa  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 NEAREST ROAD: Mountain Rd.  
2620 Joppa, Md.

W/A \_\_\_\_\_  
 \_\_\_\_\_

WELL DRILLERS LICENSE NUMBER: 051  
 CIRCLE: MWD/MSD/MGD

SITE LOCATION MAP



\* TYPE OF WELL BEING ABANDONED:  
 DRILLED \_\_\_\_\_ JETTED \_\_\_\_\_  
 \_\_\_\_\_ BORED/AUGERED \_\_\_\_\_ HAND DUG \_\_\_\_\_  
 \_\_\_\_\_ OTHER (specify) \_\_\_\_\_

\* USE CODE:  
 \_\_\_\_\_ DOMESTIC \_\_\_\_\_ MUNICIPAL/PUBLIC  
 \_\_\_\_\_ IRRIGATION \_\_\_\_\_ INDUSTRIAL  
 TEST/OBSERVATION \_\_\_\_\_ GEOTHERMAL

\* TYPE OF CASING:  
 \_\_\_\_\_ STEEL \_\_\_\_\_ PLASTIC  
 \_\_\_\_\_ CONCRETE \_\_\_\_\_ OTHER (specify) \_\_\_\_\_

\* SIZE OF CASING: 2 INCHES IN DIAMETER

\* DEPTH OF WELL: 30 FEET DEEP

\* WAS ANY CASING REMOVED? \_\_\_\_\_ YES  NO  
 if yes, length removed, in feet: \_\_\_\_\_

\* WAS CASING RIPPED OR PERFORATED?  YES \_\_\_\_\_ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
#2 sand	32	28
Bentonite Gravel	28	0

VOLUME OF MATERIAL USED  
#2 sand 12 FT<sup>3</sup>  
Bentonite 15 FT<sup>3</sup>

SIGNATURE - MASTER WELL DRILLER OR SUPERVISING SANITARIAN  
Carl Hugo

LICENSE # 051 CIRCLE ONE MWD/MSD/MGD DATE \_\_\_\_\_

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
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DATE WELL ABANDONED: April 1 / 2015 (month/day/year)

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\* PERMIT NUMBER OF REPLACEMENT WELL: N/A \_\_\_\_\_

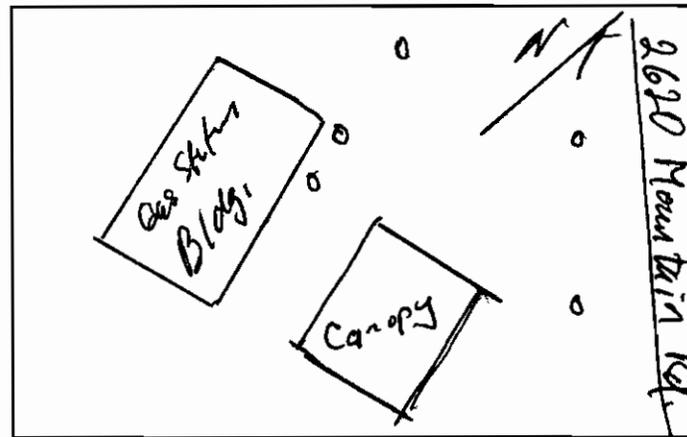
\* PERSON ABANDONING WELL: Carl Hugo WELL DRILLER'S LICENSE NUMBER: 051

\* OWNER'S NAME: Royal Farms CIRCLE:  MWD /  MSD /  MGD

\* WELL LOCATION: Harford  
 COUNTY: \_\_\_\_\_  
 NEAREST TOWN: Joppa  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 STREET ADDRESS: 2620 Mountain Rd

LATITUDE 3 . . . . .  
 LONGITUDE 7 . . . . .

SITE LOCATION MAP



\* TYPE OF WELL BEING ABANDONED:  
 DRILLED       JETTED  
 BORED       HAND DUG  
 OTHER (specify) \_\_\_\_\_

\* USE CODE:  
 DOMESTIC       MUNICIPAL/PUBLIC  
 IRRIGATION       INDUSTRIAL  
 TEST/OBSERVATION       GEOTHERMAL

\* TYPE OF CASING:  
 STEEL       PLASTIC  
 CONCRETE       OTHER (specify) \_\_\_\_\_

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 32 FEET DEEP

WAS ANY CASING REMOVED?  YES  NO  
 If yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED?  YES  NO

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN Carl Hugo LICENSE# 051

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
#2 sand	32	28
Bentonite Grout	28	1
Grout	1	0

VOLUME OF MATERIAL USED

#2 Sand	.2 FT <sup>3</sup>
Bentonite	1.5 FT <sup>3</sup>

CIRCLE ONE  MWD /  MSD /  MGS DATE: Apr 17, 2015

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 WATER WELL ABANDONMENT-SEALING REPORT FORM  
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- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: April/1/2015 (month/day/year)

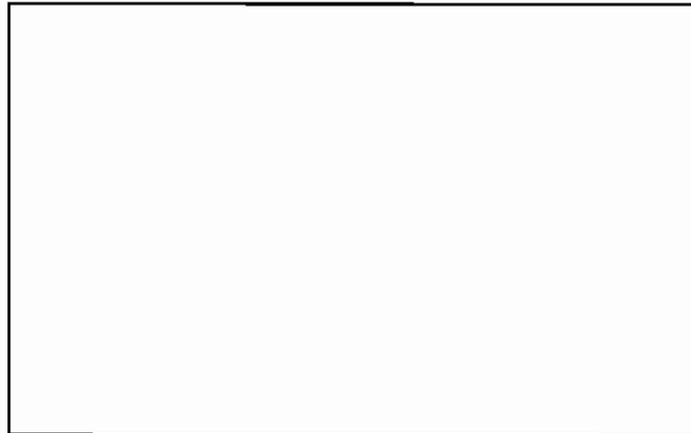
\* PERMIT NUMBER OF ABANDONED WELL (if any) W/A \_\_\_\_\_

\* PERMIT NUMBER OF REPLACEMENT WELL: \_\_\_\_\_

\* PERSON ABANDONING WELL: Carl Hugo WELL DRILLER'S LICENSE NUMBER: 05/  
 \* OWNER'S NAME: Royal Farms CIRCLE:  MWD /  MSD /  MGD

\* WELL LOCATION: Harford  
 COUNTY: \_\_\_\_\_  
 NEAREST TOWN: bpz  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 STREET ADDRESS: 2620 Mountain Rd Inger rd

SITE LOCATION MAP



LATITUDE 3 . - - - - -  
 LONGITUDE 7 . - - - - -

\* TYPE OF WELL BEING ABANDONED:  
 DRILLED       JETTED  
 BORED       HAND DUG  
 OTHER (specify) \_\_\_\_\_

\* USE CODE:  
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 If yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED?  YES  NO

Carl Hugo 051  
 SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
#2 Sand	32	28
Bentonite Grout	28	0
VOLUME OF MATERIAL USED		
.2 FT <sup>3</sup> Bentonite Sand .5 FT <sup>3</sup> Bentonite Grout		

MWD / MSD / MGS

CIRCLE ONE

DATE