

**Part 1. Contact Information**

 WWDR: \_\_\_\_\_  
 (Refer to Description on Back)

Name of Land Owner(s): \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Land Location: \_\_\_\_\_ (SW/NW/NE/SE) \_\_\_\_\_ (Section) \_\_\_\_\_ (Township) \_\_\_\_\_ (Range) \_\_\_\_\_ (Meridian)

GPS Coordinates: \_\_\_\_\_ (Easting) \_\_\_\_\_ (Northing)

Name of Contractor: \_\_\_\_\_

GPS Datum Used: <input type="checkbox"/> UTM (NAD 83) <input type="checkbox"/> UTM (NAD 27) <input type="checkbox"/> LAT/LONG
--

Well Decommissioned By: <input type="checkbox"/> Self <input type="checkbox"/> Contractor
---

**Part 2. Developing A Plan To Seal The Well**

The information determined in this portion of the worksheet will be used to determine the quantities of material required to decommission the well. Once the measurements on the top (2 a) portion of this section are determined then the values on the bottom (2 b) can be determined from the tables on the reverse side of page. Please refer to the reverse side of page for an example on how to complete the following.

**2 a: Measured values**

Well Depth: \_\_\_\_\_ (a) (ft)    Depth to Water: \_\_\_\_\_ (b) (ft)    Casing Diameter: \_\_\_\_\_ (in)    Casing Material: \_\_\_\_\_

**2 b: Calculated Values** (conversions on reverse side of page)

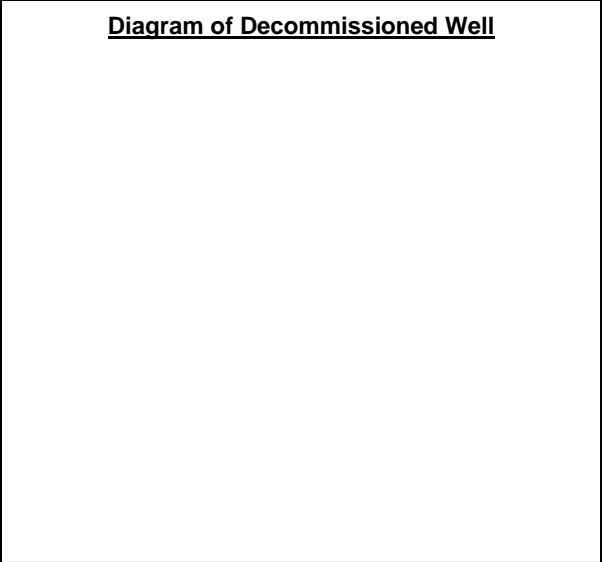
 Volume/ft Casing: \_\_\_\_\_ (c) (cu. ft)    Length of Water Column: \_\_\_\_\_ (d) (ft)    Total Casing Volume: \_\_\_\_\_ (cu. ft.)  
 (Obtain from table 1 on reverse side of page)    (Subtract line (a) from line (b))    (Multiply line (a) by line (c))

 Quantity of Chlorine per foot to Obtain Target Concentration: \_\_\_\_\_ (e) (litres)    Total Volume of Chlorine for Disinfection: \_\_\_\_\_ (litres)  
 (Obtain from table 2 on reverse side of page)    (Line (d) multiplied by Line (e))

**Part 3. Steps Taken To Seal The Well**

(This is to document the steps taken to seal the well. Include information such as the amount of casing removed and location of bentonite seals).

Casing Removal		
From (ft)	To (ft)	Material
Materials Used to Seal Well		
From (ft)	To (ft)	Material and Quantity



Comments: \_\_\_\_\_

 \_\_\_\_\_  
 Signature of Land Owner

 \_\_\_\_\_  
 Date

**Table 1: Casing Volume**

Casing diameter	Volume per foot casing
inches	cubic feet
4	0.087
5	0.136
6	0.196
7	0.267
8	0.348
24	3.136
30	4.900
36	7.056

**Table 2: Chlorine Calculation to Obtain 250 mg/l**

Casing Diameter	* 5.25% Domestic Chlorine Bleach	12% Industrial Sodium Hypochlorite	** 70% Granular Calcium Hypochlorite
	Litres needed per 1 foot ( 30 cm) of water in casing	Litres needed per 1 foot ( 30 cm) of water in casing	Grams dry weight needed per 1 foot (30 cm) of water in casing
Inches	Litres	Litres	Grams
4	0.012	0.005	0.9
5	0.018	0.008	1.4
6	0.026	0.012	2.0
7	0.036	0.016	2.7
8	0.047	0.020	3.5
24	0.424	0.185	31.7
30	0.667	0.292	50.0
36	0.952	0.417	71.3

**Conversions/Abbreviations:**

- 1 cu. ft. = 28.32 litres
- 1 litre = 0.22 imp. gal.
- 1 imp. gal. = 4.54 litres
- 1 ft = 0.3048 meters
- ft = foot
- in = inches
- cm = centimetres
- m = metres
- cu. ft = cubic feet
- cm = # inches
- g = # pounds
- cu. ft = cu. yard

\* Domestic bleach has a relatively low concentration of 5.25%, which decreases over time as the product is stored. For this reason, its effectiveness for disinfection may be limited.

\*\* If dry chemical is used, it should be mixed with warm water to form a chlorine solution prior to placing in the well.

\*\*\*Always follow the manufactures recommended handling precautions.

Example :

**Part 2. Developing A Plan To Seal The Well**

The information determined in this portion of the worksheet will be used to determine the quantities of material required to decommission the well. Once the measurements on the top (2 a) portion of this section are determined then the values on the bottom (2 b) can be determined from the tables on the reverse side of page. Please refer to the reverse side of page for an example on how to complete the following.

**2 a: Measured values**

Well Depth: 30 (a) (ft) Depth to Water: 17 (b) (ft) Casing Diameter: 30 (in) Casing Material: galvanized steel (corrugated metal)

**2 b: Calculated Values** (conversions on reverse side of page)

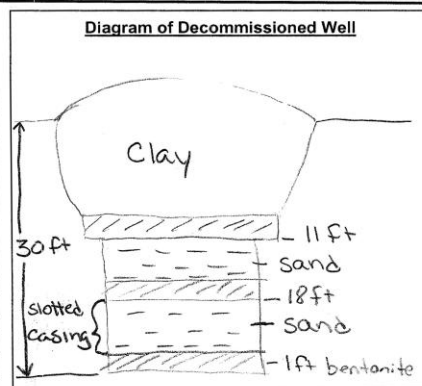
Volume/ft Casing: 4.9 (c) (cu. ft) Length of Water Column: 13 (30 - 17) (d) (ft) Total Casing Volume: 147 (30 x 4.9) (cu. ft.) (Obtain from table 1 on reverse side of page) (Subtract line (a) from line (b)) (Multiply line (a) by line (c))

Quantity of Chlorine per foot to Obtain Target Concentration: 0.667 (e) (litres) Total Volume of Chlorine for Disinfection: 9.7 (13 x 0.667) (litres) (Obtain from table 2 on reverse side of page) (Line (d) multiplied by Line (e))

**Part 3. Steps Taken To Seal The Well**

(This is to document the steps taken to seal the well. Include information such as the amount of casing removed and location of bentonite seals.)

Casing Removal		
From (ft)	To (ft)	Material
0	11	removed galv. casing
Materials Used to Seal Well		
From (ft)	To (ft)	Material and Quantity
0	10	local clay
10	11	bentonite
11	17	sand
17	18	bentonite
18	29	sand
29	30	bentonite



Comments: well decommissioned due to high iron levels & casing collapsing