

HARNETT COUNTY DEPARTMENT OF PUBLIC HEALTH

Well Abandonment Permit

Permit Number: NA Application Number: EH2012-0004 Applicant Name: Clovelly Solar LLC

Address: 555 Neills Creek Rd. Lillington, NC 27546 / Mailing Address: 130 Roberts Rd. Ashville, NC 28801

Type of Well: Below Total Depth: Below Diameter: Below Grouted: Below Static Water Level: Below

Directions to Site: 555 Neills Creek Rd. Lillington, NC 27546

Agent of the State *[Signature]* Date: 12/17/2020

Abandonment Procedure: Abandonment Procedure: 1. Remove all plumbing or piping into the well, along with any obstructions inside the well; 2. Remove as much of the well tile casing a possible, but no less than to a depth of three feet below land surface; 3. remove all soil or other subsurface material present down to the top of the remaining well casing, and extending to a width of at least 12 inches outside of the well casing on all sides; 4. Fill the well up to the top of the remaining casing with cement grout, concrete grout, bentonite grout, dry clay, or material excavated during drilling of the well and then compacted in place; 5. Pour a one foot thick concrete grout or cement grout plug that fills the entire excavated area about the top of the casing, including the area extending on all sided of the casing out to a width of at least 12 inches on all sides; 6. Complete the abandonment process by filling the remainder of the well above the concrete or cement plug with additional concrete grout, cement grout, or soil. A record of the abandonment must be submitted within 30 days of abandonment.

Note: Contact Harnett County Environmental Health for appointment prior to beginning of well abandonment procedure.

Well must be abandoned by a Certified North Carolina well driller/contractor.

SEE MAP ATTACHED?		
WELL #1	WELL #2	WELL #3
TYPE: HAND DUG	TYPE: BORED	TYPE: HAND DUG
DEPTH: 22 FT	DEPTH: 22 FT	DEPTH: 21 FT
DIAMETER: 3 1/2 IN	DIAMETER: 20 IN	[TRASH IN BOTTOM] DIAMETER: 23 1/2 IN
GRADED: NO	GRADED: UNK	GRADED: NO
STATIC WATER: 6 FT	STATIC WATER: 8 FT	STATIC WATER: 0 FT [ONLY]
35° 25.000	35° 24.995	
79° 46.408	78° 46.409	

Joe Condon 12.18.2020
Property Owner's or Owners Legal Representative Signature Required Date
1-4-21

WELL ABANDONMENT RECORD

For Internal Use ONLY:

EH 2012-0004

1. Well Contractor Information:

Roger Jackson
Well Contractor Name (for well owner personally abandoning well on his/her property)

2179
NC Well Contractor Certification Number

JACKSON WELL CO.
Company Name

2. Well Construction Permit #: EH 2012-0004
List all applicable well construction permits (i.e. UNC, County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input checked="" type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 12-31-20

5a. Well location:

555 Mills CK COVELLY SOLAR LLC

Facility Owner Name: 555 Mills Creek Rd Lillington NC
Facility ID# (if applicable): 27546

Physical Address, City, and Zip: 14411111

County: HANCOCK Parcel Identification No. (PIN): 27546

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one location is sufficient)

35° 25.000 N 78° 46.408 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: #1

6b. Total well depth: 22 (ft.)

6c. Borehole diameter: 32 (in.)

6d. Water level below ground surface: 4 (ft.)

6e. Outer casing length (if known): 0 (ft.)

6f. Inner casing/tubing length (if known): 0 (ft.)

6g. Screen length (if known): 0 (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): 60 (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: HTH 70%

7d. Amount of disinfectant used: 16%

7e. Sealing materials used (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> Neat Cement GROUT | <input checked="" type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement GROUT | <input checked="" type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete GROUT | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty GROUT | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

1600 lbs Bentonite
3 yd Dry Clay

7g. Provide a brief description of the abandonment procedure:

Pump water out
1200 lbs Bentonite
3 yds CLAY
CEMENT 1st Top

8. Certification: 2179 A
Roger W. Jackson Signature of Certified Well Contractor or Well Owner
1-7-21 Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 62C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27689-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27689-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

EH2012-0004

1. Well Contractor Information:

Roger Jackson
Well Contractor Name (or well owner personally abandoning well on Mother property)

2179

NC Well Contractor Qualification Number

Jackson Well Co.
Company Name

2. Well Construction Permit #: EH2012-0004

List all applicable well construction permits (i.e. UNC, Camp, Sew, Surface, etc.)/issues

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/PAE:
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Trench
<input type="checkbox"/> Geothermal (Heating/Cooling System)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 12-31-20

5a. Well location:

Clayville Solar LLC

Facility/Owner Name: 555 Mills Creek Rd, Mills, NC 27516

Registered Address, City, and Zip

Itarwell

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one listing is sufficient)

35° 24.995' N 78° 46.409' W

CONSTRUCTION DETAILS OF WELLS BEING ABANDONED

Attach well construction records (if available). For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: #2

6b. Total well depth: 22 (ft.)

6c. Borehole diameter: 20 (in.)

6d. Water level below ground surface: 8 (ft.)

6e. Outer casing length (if known): 22' (ft.)

6f. Inner casing/lining length (if known): -0- (ft.)

6g. Screen length (if known): -0- (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): 60 (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: HTH 70%

7d. Amount of disinfectant used: 16%

7e. Sealing materials used (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Seal Cement Grout | <input checked="" type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

Bentonite 800lbs
Dry CLAY SAND CEMENT

7g. Provide a brief description of the abandonment procedure:

Pump water out
Placed Bentonite
Placed Dry CLAY

8. Certification:

2179 A
Roger W. Jackson 1-7-21
Signature of Qualified Well Contractor or Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with ISA NCAC 82C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL RESTRICTIONS

10a. For ALL Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27609-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1626 Mail Service Center, Raleigh, NC 27609-1626

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

For Internal Use ONLY:

EH 2012-0004

1. Well Contractor Information:

Roger Jackson
 Well Contractor Name (or well owner personally abandoning well on his/her property)
2179
 NC Well Contractor Certification Number
Jackson Well Co.
 Company Name

2. Well Construction Permit #: FH 2012-004
 List all applicable well construction permits (i.e. DEC, Consol, State, Federal, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input checked="" type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Steamwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Other
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 12-31-20

5a. Well location:

CLOVELLY STORM LLC
 Facility/Owner Name
555 McMillan Creek Rd. Lenoir NC
 Physical Address, City, and Zip
HAN NETH
 County
27546
 Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
 (If well field, one listing is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELLS BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction abandonment, you can submit one form.

6a. Well ID#: # 3

6b. Total well depth: 110 (ft.)

6c. Borehole diameter: 36 (in.)

6d. Water level below ground surface: -0- (ft.)

6e. Outer casing length (if known): -0- (ft.)

6f. Inner casing/ tubing length (if known): -0- (ft.)

6g. Screen length (if known): -0- (ft.)

WELL ABANDONMENT DETAILS

7a. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same well construction/depth, only 1 GW-30 is needed. Indicate TOTAL NUMBER of wells abandoned: _____

7b. Approximate volume of water remaining in well(s): 60 (gal)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: HTH 70%

7d. Amount of disinfectant used: 16%

7e. Sealing materials used (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

Hyds Dry Clay

7g. Provide a brief description of the abandonment procedure:

FILL WITH CLAY
10' HAND DUG

8. Certification:

2179 A
Roger W. Jackson
 Signature of Well Contractor or Well Owner
1-8-21
 Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0300 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
 1617 Mail Service Center, Raleigh, NC 27609-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
 1616 Mail Service Center, Raleigh, NC 27609-1616

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.