



Barry Williams
1701 Cedar Crest Dr, Abilene , Texas

Inspection date
July 23, 2021

Reason for inspection
Inspection report requested

Level of inspection
Level I and parts of Level II

Prepared by
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Shanes Chimney Care LP

SHANE'S CARE
CHIMNEY

Disclaimers and notifications

Please note: This report is the exclusive property of Shanes Chimney Care LP and Barry Williams. If this report is for the required Level II inspection for the sale or transfer of property it is mandatory that full notification of defects be made to the current owner and the potential buyer.

Recommendations: Any recommendations are made as a service to our customers and is not a contract or proposal for work for repairs even if an approximate cost is given. A separate repair estimate may be requested.

Grandfathering: When chimney repair is found to be necessary due to potentially hazardous or unsafe conditions, there is no grand fathering for any portion of the chimney. There is no state or national code that "Grandfather's" any portion of a chimney that represents a potential hazard.

Professional chimney inspection: This report is the result of a professional chimney inspection. The report reflects the level of chimney inspection as stated in the report. Everything in this report is factual and supported by the standards represented in the International Residential Building Code 2006, NFPA 211 2016, U.L. and manufacturer installation instructions.

Inspection level indicated: National Fire Protection Agency (NFPA 211) has 3 levels of inspection. We have added a basic level for estimating purposes. The basic estimating level is restricted to the areas required for a specific estimate request such as an exterior chimney repair. This level does not assess the usability, safety or functionality of the entire structure. This level is a courtesy for the convenience of the client to provide an estimate for the repairs desired. The NFPA 211 level or combination of levels used will be indicated on the report.

Visual observation: All aspects of this report are taken from visual observations. Visual observations whether an internal camera system is used or not are limited in scope by the angle of perspective. Hidden flaws could exist that are not available for a visual observation from the angle of the perspective available.

Inaccessible areas: There are areas of the chimney, fireplace or appliance that are not available for inspection. These areas include but are not limited to: attic space, hearth support, hearth extension, basement, crawl space, areas concealed between floors and walls and areas that the person inspecting may not have been given access to at the time of the inspection. Roof construction or weather conditions may restrict roof access. The Inspector cannot obtain access to certain portions of the fireplace and certain enclosed adjacent areas. The Inspector makes no representations express or implied and will not be responsible in any way for deficiencies, improper installation, or improper equipment in inaccessible areas. The findings listed within this report are based on the condition of the appliance system at the time of this inspection and may be limited due to access or type of inspection requested.

Inspection validity timeframe: We cannot control what happens to this chimney, fireplace, vent, or appliance after we leave the location. Customers may move or construct things that change the clearance to combustibles. Weather, use, misuse, lack of use, vegetation, age and alterations are just some of the factors that can change the condition of the structure. We will not be held responsible for any of these changes that may affect the suitability for use of this chimney, vent or appliance.

Suitable for intended use: The purpose of the inspection is to determine reasonable suitability to use this chimney, appliance, vent, or fireplace as the structure was intended when constructed or inspected. A fireplace is intended to be used as an ornamental structure that is designed for short term use and not as a source of heat. Use of a fireplace or other appliance in a way that it is not intended to be used could present a hazard.

Measurements: Some of the measurements in this report are approximations. Some of the approximations are used to aid the estimator to write a proposal for work. These approximations are also valuable to help determine proper equipment needed to insure the safety of the chimney professionals doing any of the proposed work. Any inaccuracies in any of these approximations does not invalidate the findings in this report.

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House

- **Description and photos:**



- **Brick / Stone / Chimney walls condition:** Meets industry standards
- **Crown / Wash cap:** Needs attention



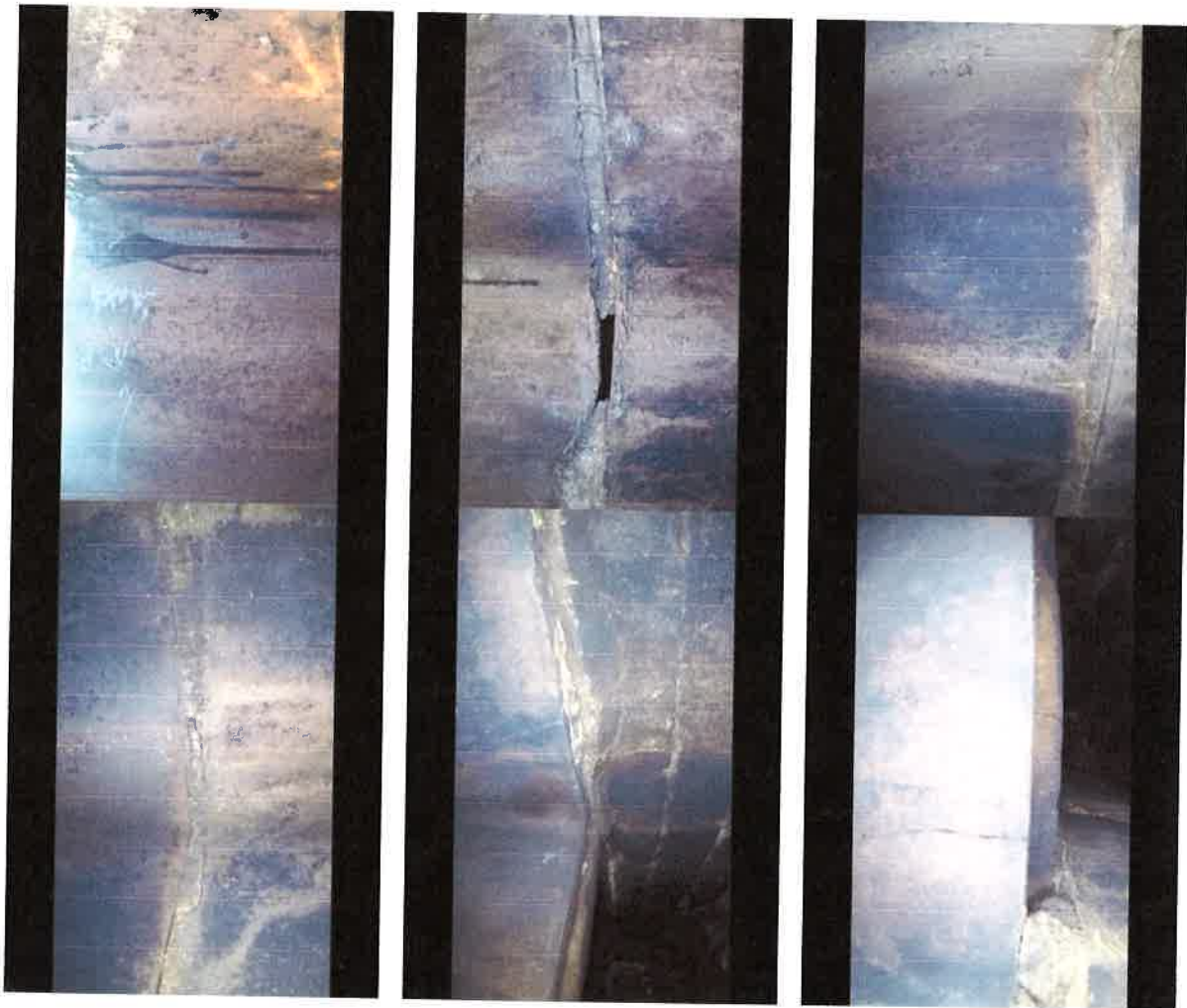
This chimney has the presence of roofing tar, a combustible material, as a sealant. This is dangerous as the temperature around the flue could possibly ignite the tar and start a roof fire. Some of that tar has melted and begun running down the inside of the flue.

- **Material:** Culture stone
- **Chimney location:** Exterior
- **Chimney height 3-2-10 rule:** Yes
- **Mortar Condition:** Meets industry standards

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Flue #1

- **Chimney cap / spark guard / Top damper:** Meets industry standards
- **This flue was inspected:** Internal camera inspection system
- **Chimney liner presence, condition regarding readily visible defects, holes, cracks, missing mortar joints, spalling, mortar protrusions, and proper alignment:** Does not meet industry standards



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There are tiles that have vertical cracks. Vertical cracks are an indication that there has been a sudden rapid heating of the tile. This rapid heating causes thermal shock to the tile. Thermal shock causes the inside of the tile to heat more rapidly than the exterior of the tile. Heat causes the inside of the tile to expand more rapidly than the exterior of the tile. When this occurs the tile will crack vertically. This flue tile can no longer perform its intended function. The chimney must be relined. 2016 NFPA 211 14.9

The mortar joints between the flue tiles are no longer intact. These missing or deteriorated mortar joints prevent the flue tiles from properly conveying the byproducts of combustion to the exterior of the home.

Flue tiles are required to have space in between them to allow for expansion and prevent cracking.

- **Lining material:** Clay tile

Fireplace #1

- **Description and photos:**



- **Fireplace configuration / Appliance manufacturer's clearance requirements:** Open wood burning

- **Flue tile sealed at smoke chamber:** Does not meet industry standards





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The flue tile is not sealed at the top of the smoke chamber. This can allow the byproducts of combustion to go behind the flue tiles and may migrate to areas of the chimney and home not meant to contain them. The potential hazard exists that combustible residue could built up where it cannot be maintained and allow the possibility of a structure fire. This defect could also allow carbon monoxide the enter the home. 2016 NFPA 211 11.2.1.13

• **Smoke chamber general accessibility, construction, parging and condition:** Does not meet industry standards



The smoke chamber is a crucial part of the fireplace system and is often the most poorly constructed area of the structure. Most structural fires associated with fireplaces originate in this area. It is imperative that this area be completely sealed and parged smooth. 2016 NFPA 211 11.2.1.13 IRC 2006 2111.S

• **Ash dump-door:** Needs attention





The ash dump door is missing and should be replaced or the ash dump sealed off to prevent hot embers or coals to fall into the ash pit

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- **Fireplace type:** Traditional masonry

Outdoor

- **Description and photos:**



- **Material:** Culture stone
- **Chimney location:** Exterior
- **Mortar Condition:** Meets industry standards
- **Brick / Stone / Chimney walls condition:** Meets industry standards

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Flue #1

- **This flue was inspected:** Visually, camera was not used

There is a clear indication that the chimney is damaged and will need repair before use, without a camera needing to be run.

- **Chimney liner presence, condition regarding readily visible defects, holes, cracks, missing mortar joints, spalling, mortar protrusions, and proper alignment:** Needs attention



The mortar joints between the flue tiles are no longer intact. These missing or deteriorated mortar joints prevent the flue tiles from properly conveying the byproducts of combustion to the exterior of the home.

- **Lining material:** Clay tile
- **Chimney cap / spark guard / Top damper:** Needs attention

This flue does not have a chimney cap. A chimney cap should be installed to prevent rain, snow, animals and debris from entering the flue. The cap should have a spark guard to help prevent burning embers from exiting the chimney. Burning embers from the chimney could ignite roof materials, trees, and other nearby combustible materials.

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Fireplace #1

- **Description and photos:**



- **Smoke chamber general accessibility, construction, parging and condition:** Needs attention

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- **Fireplace type:** Traditional masonry
- **Fireplace configuration / Appliance manufacturer's clearance requirements:** Open wood burning

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Findings and conclusions

Due to one or more issues highlighted in this inspection report, this system does not meet code and/or safety standards. It is our professional recommendation that this system not be used unless the necessary repairs have been completed and the system brought back to code compliance and/or safety standards.