

# "I AM AFRAID THAT MY CHIMNEY WILL COLLAPSE!"

A Claremore, Oklahoma, homeowner was very concerned that the chimney on the side of his house would come crashing down and injure someone. The movement of the chimney had allowed a family of sparrows to take up residence in the attic.

The homeowner went on to say that stains were visible on the ceiling. The flashing connecting from the chimney to the roof had failed and rain was penetrating the roof. Could the chimney be saved, or must it be torn down and a new chimney built?



**Before Restoration and After Restored with ATLAS RESISTANCE PIERS**

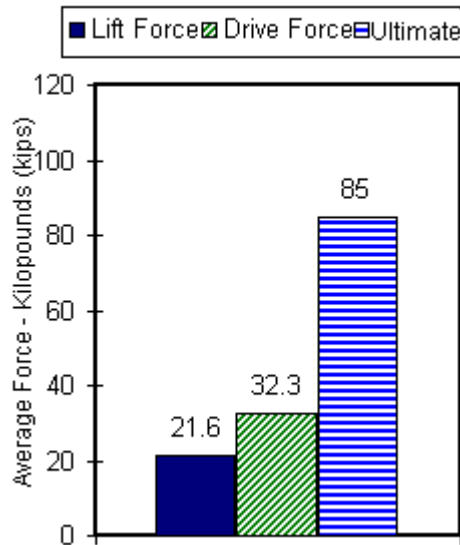
Atlas Piers of Tulsa, Inc. installed eight **ATLAS RESISTANCE PIERS** around the chimney and along the adjacent perimeter wall. Not only did the **ATLAS RESISTANCE PIERS** provide stabilization, the piers were used to raise the foundation **one inch** to restore the chimney to vertical and to level the foundation.

**THE SOLUTION: ATLAS RESISTANCE PIERS!  
STABILIZED AND RESTORED THE CHIMNEY AND FOUNDATION!**

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PROJECT SUMMARY	
Installed By:	<b>Atlas Piers of Tulsa, Inc.</b>
Number of Piers:	8
Part Number:	AP2S-3500
Avg. Pier Depth:	16 feet
Avg. Load per Pier:	21,630 pounds
Avg. Drive Force:	32,331 pounds
Ultimate Capacity:	85,000 pounds
Amount of Lift:	1 in.
Factor of Safety:	1.49 : 1 (Drive to Lift)
(Averages)	3.93 : 1 (Ultimate to Lift)

### Atlas Resistance Piers Lift Force vs. Drive Force & Ultimate



The chart above shows the ultimate pier capacity is **over four times** the average pier load. The average driving force is **over 60 percent** above the average pier load.

This ten year old house is constructed upon continuous spread footing with stem wall at the perimeter. The exterior wood siding and the chimney is constructed of masonry.

Atlas Piers of Tulsa, Inc. installed **Atlas Resistance Piers** around the chimney and adjacent perimeter footing in order to stabilize and restore the structure. The piers were driven to a bearing stratum at a depth of approximately sixteen feet. The restoration process removed one inch of settlement and returned the chimney to vertical!



This photograph shows the two Atlas AP2S-3500 Piers used to restore the chimney. The hydraulic rams are actuated together and are used to lift the structure. Once restored, the rams are removed.