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The closest weather reporting location to the accident site was from Albuquerque International Airport (KABQ), Albuquerque, New Mexico, located about 9.5 miles south at an elevation of 5,355 ft. The airport had an Automated Surface Observation System (ASOS) which was augmented by observers. At the approximate time of the accident the following conditions were reported:

ABQ weather observation at 0753 MDT, wind from 340° degrees at 7 knots, visibility 10 miles or more, scattered clouds at 20,000 ft agl, and scattered clouds at 25,000 ft, temperature of 8° C (50°F), dew point temperature of -4°C (25°F), altimeter 30.30 inches of mercury. The remarks indicated that the sea level pressure was 1022.4-hectopascals (hPa).

The conditions surrounding the period 2-hours prior to after the vent were as follows and recorded winds less than 10 knots, and no gusts during the period.

METAR KABQ 141152Z 01007KT 10SM FEW220 BKN250 09/M05 A3026 RMK AO2
SLP199 T00891050 10128 20083 53007=
METAR KABQ 141252Z 01006KT 10SM FEW200 SCT250 08/M04 A3028 RMK AO2
SLP210 T00831044=
METAR KABQ 141352Z 34007KT 10SM SCT200 SCT250 08/M04 A3030 RMK AO2 SLP224
T00831039=
Accident 1410Z
METAR KABQ 141452Z 34006KT 10SM SCT200 SCT250 09/M03 A3031 RMK AO2 SLP226
T00941033 51017=
METAR KABQ 141552Z 33004KT 10SM SCT250 BKN300 11/M03 A3032 RMK AO2
SLP232 T01111033=
METAR KABQ 141652Z 34006KT 10SM FEW250 FEW300 11/M03 A3032 RMK AO2
SLP231 T01111033=

The Terminal Aerodrome Forecast (TAF) current during the period was as follows:
TAF KABQ 141120Z 1412/1512 02008KT P6SM BKN220
FM141600 VRB04KT P6SM SKC=

The forecast did not indicate any strong winds or any threat of low-level wind shear (LLWS). A HRRR sounding over the coordinates indicated a stable atmosphere with no thermals and a defined low level temperature inversion to about 2,000 ft agl with light and variable winds to the surface. No strong winds indicated below 10,000 ft msl.