

Fox Todd

From: Fox Todd
Sent: Thursday, March 31, 2016 3:20 PM
To: Ken.Hand [REDACTED]
Cc: Fox Todd; Latson Tom
Subject: Shiprock, NM -- Cessna 180D, N180XV -- Local Weather/Wind Conditions
Attachments: MesoWest Weather (NM1H) -- 14 mi ENE -- Highlighted.pdf

Importance: High

Inspector Hand,

For the reported accident time of 11:46 am MDT (17:46 UTC)...

The closest non-aviation weather reporting station, located 14 miles ENE of the airport, ID no. M1H, reported the surface wind was from the west-southwest to west, between 4-8 mph (gusting 11-20 mph) during the two hour period before the reported accident time. See attached weather report.

The weather conditions at the nearest aviation weather reporting station, located at Farmington, NM, ID No. KFMN, reported calmer wind condition during the 2 hour before the reported accident time. Specifically, the surface winds were calm to variable at 5 knots.

201603311853 METAR KFMN 311853Z 29009KT 10SM CLR 09/M07 A2986 RMK AO2 SLP112 T00891072=
201603311753 METAR KFMN 311753Z VRB05KT 10SM CLR 07/M07 A2989 RMK AO2 SLP119 T00721072 10072
21061 58007=
201603311653 METAR KFMN 311653Z 00000KT 10SM CLR 05/M07 A2990 RMK AO2 SLP128 T00501072=
201603311553 METAR KFMN 311553Z 17003KT 10SM CLR 02/M07 A2991 RMK AO2 SLP135 T00171067=
201603311453 METAR KFMN 311453Z 11003KT 10SM CLR M01/M08 A2991 RMK AO2 SLP142 T10111083
51007=

Sincerely,
Andrew Todd Fox
NTSB, Air Safety Investigator

Observations Prior to: 03/31/2016 18:00 GMT

Weather Conditions at:

Graphical Links		Max Since 0:00 (GMT)	Min Since 0:00 (GMT)	24 Hour Maximum	24 Hour Minimum
Temperature		46.9 at 0:00	24.1 at 13:00	47.7 at 23:00	24.1 at 13:00
Wind Speed		17.9 at 0:00	1.8 at 14:00	19.7 at 23:00	1.8 at 14:00
Wind Gust		27.7 at 0:00	3.6 at 7:00	30.9 at 23:00	3.6 at 7:00
Wind Direction		-	-	-	-
Solar Radiation		933.6 at 18:00	0.0 at 12:00	1006.8 at 20:00	0.0 at 12:00
Air Temperature at 10 meters		45.9 at 0:00	25.5 at 14:00	45.9 at 0:00	25.5 at 14:00

***Note:** Observations above in **yellow** indicate that they are older than the last row of observations below.

Tabular Listing of 26 Observations from 03/30/2016 17:00 GMT to 03/31/2016 18:00 GMT:

Time (GMT)	Temperature ° F	Wind Speed mph	Wind Gust mph	Wind Direction	Solar Radiation W/m²	Air Temperature at 10 meters ° F	Quality Control
16:00	34.9	2.7	6.9	SSE	612.3	32.0	OK
15:00	28.9	4.2	7.8	ESE	370.8	26.8	OK
14:00	25.3	1.8	3.8	SSE	113.8	25.5	OK
13:00	24.1	2.5	6.5	W	0.7	25.5	OK
12:00	24.6	3.1	6.3	SSE	0.0	26.4	OK
11:00	25.5	2.5	5.6	SSW	0.0	27.5	OK
10:00	28.2	2.0	4.0	SW	0.0	29.1	OK
9:00	29.3	2.9	4.5	S	0.0	31.1	OK
8:00	30.4	3.4	5.6	S	0.0	32.4	OK
7:00	33.3	2.2	3.6	S	0.0	35.1	OK
6:00	32.4	3.4	6.3	SSW	0.0	34.7	OK
5:00	38.1	5.1	6.3	NW	0.0	40.1	OK
4:00	37.2	5.4	7.4	NW	0.0	38.8	OK
3:00	39.0	6.7	11.4	NNW	0.0	40.3	OK
2:00	42.3	12.3	21.0	NW	11.7	42.4	OK
1:00	45.9	17.7	27.1	WNW	174.2	45.1	OK
0:00	46.9	17.9	27.7	WNW	392.0	45.9	OK
23:00	47.7	19.7	30.9	W	655.4	45.7	OK
22:00	46.8	18.8	29.8	W	838.5	45.0	OK