



Photo 1 – NTSB Photograph Depicting the Initial Impact Site Location and Energy Path Direction



Photo 2 - NTSB Photograph Depicting The Initial Impact Site and the Wreckage in the Background.



Photo 3 - NTSB Photograph Depicting Debris Between the Initial Impact Site and Wreckage.



Photo 4 - NTSB Photograph Depicting Main Wreckage.



Photo 5 - NTSB Photograph Depicting Closer View of the Wreckage at the Accident Site. Note the extensive damage to the Right Wing, Cockpit, and Fuselage.



Photo 6 - NTSB Photograph Depicting a Section of the Instrument Panel Containing the Suction Gauge, Separated Attitude Indicator, and Portion of Directional Gyro.



Photo 7 - NTSB Photograph Depicting the Emergency Locator Transmitter (ELT) as First Viewed. Note the ELT is Partially Out of Its Bracket.



Photo 8 - NTSB Photograph Depicting the Engine Instruments.



Photo 9 - NTSB Photograph Depicting the Rear Side of the Engine Assembly, and View of the attached Engine-Driven Vacuum Pump.



Photo 10 - NTSB Photograph Depicting the Instrument Panel, Throttle Quadrant, Rudder Pedals, Avionics, and Instruments.



Photo 11 - NTSB Photograph Depicting the Propeller. Note the Blade Bending and Damage.

DEAN INTERNATIONAL, INC.

EMPLOYEE'S
INITIALS

JUL 18 3:11

DATE OUT	DATE IN

N 49453

FLIGHT DISPATCH SHEET

NAME(S):	UKAERE MARK
INSTRUCTOR:	JOE WACHKA
DISCREPANCIES NOTED: ☐ YES ☐ NO	

TACH	
Ending	
Starting	3686.4
Total	

HOBBS	
Ending	
Starting	10317.3
Total	

TYPE OF AIRCRAFT		
☐ CESSNA 150/152	☒ CESSNA 172	☐ CESSNA 182
☐ PIPER PA-28-180	☐ PIPER PA-28R-201	☐ SIMULATOR

☒ INSTRUCTION	☐ BUDDY	☐ RENTAL	☐ SIM
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Do you meet all Insurance Requirements?	☐ YES	INITIALS
Check the applicable box & initial.	☐ NO	
DEDUCTIBLE FUND	☐ I agree ☐ I disagree	

FLIGHT TIME		SIGN HERE	X
GROUND TIME			X

Part 141 Part 61

Photo 12 - NTSB Photograph Depicting the Flight Dispatch Sheet for the Previous Instructional Flight Earlier That Day



**Photo 13 - NTSB Photograph Depicting the Attitude Indicator Following Removal from Behind The Instrument Panel.
Note the Fixed Pointer Position.**



Photo 14 – NTSB Photograph of the Engine-Driven Vacuum Pump Showing the Intact Rotor and Vanes.



Photo 15 – NTSB Plotting of Non-Correlated Radar Data onto IFR Low Altitude Chart.