



RECORD OF MEMORANDUM

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Date: 10/15/2020
What: Basic Fuel Calculations
NTSB Accident Number: WPR20LA308

Narrative:

Basic Information:

- Approximate total flight time: 4 hours and 31 minutes.
- Flight distance: about 770 Miles
 - The pilot filed a flight plan for: 10,000 feet, 181 knots, and a distance of 763 miles.
- During the flight, the airplane flew at about 8,000 feet for the first half of the flight, and about 10,000 feet for the second half.
- With full fuel the airplane would have 84 usable gallons (90 total gallons).
- The first half of the accident flight was conducted at about 70% power and the second half of the flight at 80% power.
- According to the Twin Comanche, PA-30, Owner's Handbook, the following calculations were completed:

17.2 gph (75% power) x 4 hrs = 68.8 gallons + 8.6 (gallons for half hour) = 77.4 total gallons

15.2 gph (65% power) x 4 hrs = 60.8 gallons + 7.6 (gallons for half hour) = 68.4 total gallons

13.4 gph (55% power) x 4 hrs = 53.6 gallons + 6.7 (gallons for half hour) = 60.3 total gallons

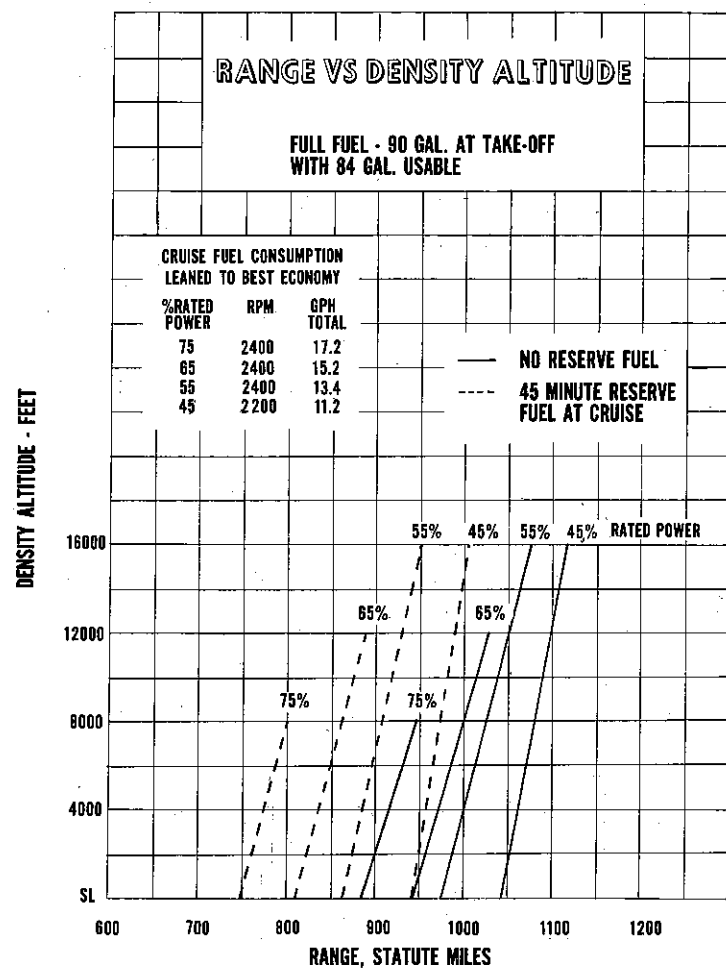
11.2 gph (45% power) x 4 hrs = 44.8 gallons + 5.6 (gallons for half hour) = 50.4 total gallons

These calculations are for perfect conditions and do not account for engine leaning, wind, climb, or descent.

END.

Submitted by: Samantha Link

TWIN COMANCHE



TWIN COMANCHE

