

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS N8214C	2 MANUFACTURER AND MODEL Piper PA-18-135	3 AIRCRAFT SERIAL NUMBER 18-3655	4 CATEGORY Normal
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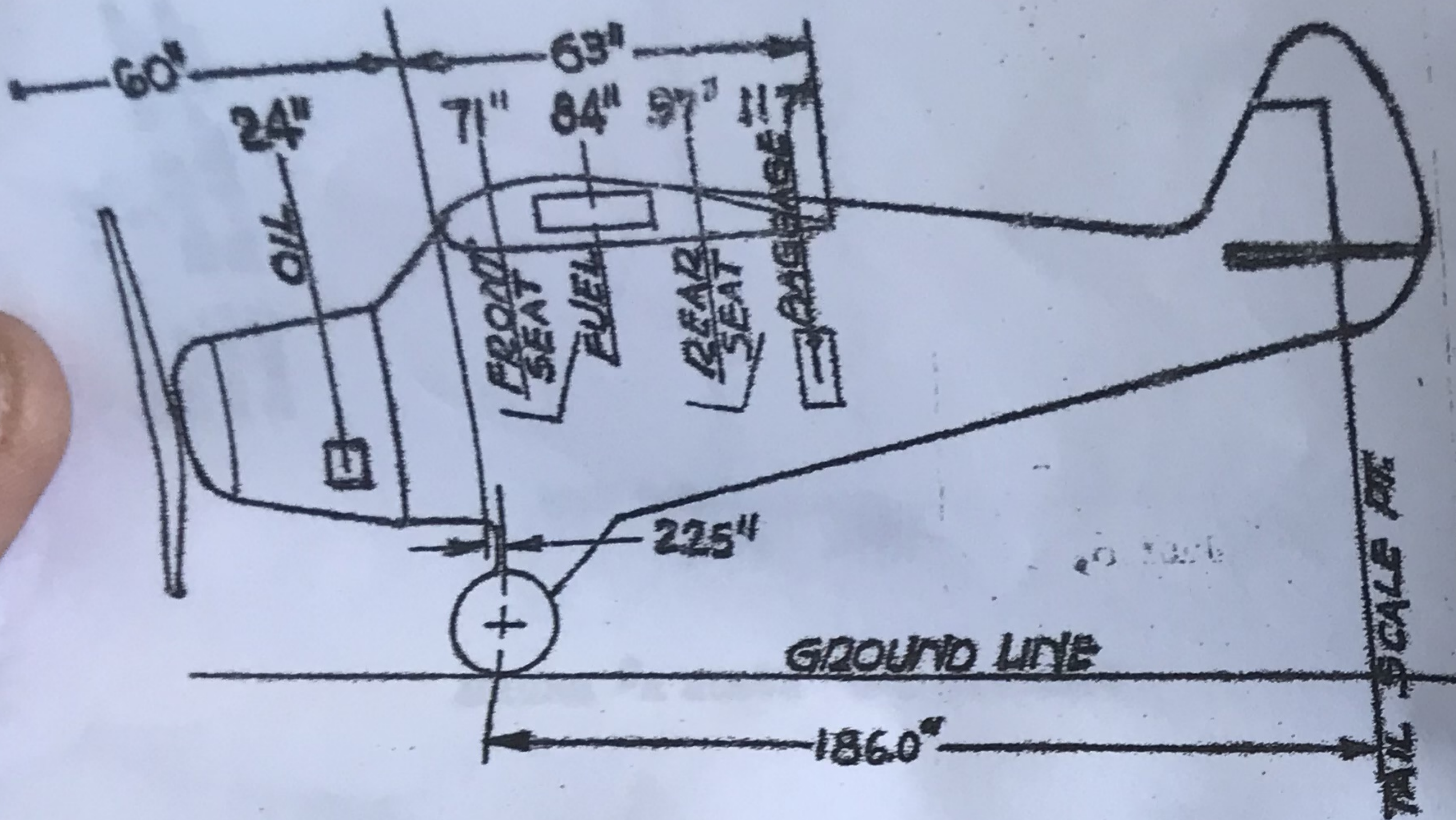
5 AUTHORITY AND BASIS FOR ISSUANCE: This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:

NONE

6 TERMS AND CONDITIONS: Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE R-11/19/69	FAA REPRESENTATIVE <i>B Fricker</i> B Fricker	DESIGNATION NUMBER SAT-FSDO-17
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Any iteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years or both.
THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



Empty "As Weighed" is aft of Wheel C.L. $\frac{186 \times 57}{(y) 991} = 10.6$ "

tance from datum to Wheel C.L. $60 \div 2.25 = 62.25$ "

Empty "As Weighed" is aft of datum $62.25 \div 10.6 = 72.9$ "

MOST FORWARD C.G. UTILITY AND NORMAL CATEGORIES

ITEM	WT.	ARM	MOMENT
Empty Weight "As Weighed"	991	72.9	72244
Oil (2.0 Gal.)	15	24	360
Fuel (11.25 Gal.) Wing	68	84	5712
Pilot and Chute (Front)	190	71	13490
Total	1264	72.6	91806

Forward C.G. is 12.6 " aft of W.L.E. #

MOST REARWARD C.G. UTILITY CATEGORY

ITEM	WT.	ARM	MOMENT
Empty Weight "As Weighed"	991	72.9	72244
Fuel (12.0 Gal.) Wing	114 216	84	9576 18144
Pilot and Chute (Front)	190	71	13490
Passenger and Chute (Rear)	190	97	18430
Oil (2.0 Gal.)	15	24	360
Total	1500	76.1	114 100

Most Rearward C.G. Utility Category 16.1 " aft W.L.E. #

MOST REARWARD C.G. NORMAL CATEGORY

ITEM	WT.	ARM	MOMENT
Empty Weight "As Weighed"	991	72.9	72244
Oil (2.0 Gal.)	15	24	360
Fuel (36 Gal.) Wing	216	84	18144
Pilot (Rear)	170	97	16490
Baggage	50	117	5850
Total	1442	78.4	113 088

Most Rearward C.G. Normal Category 18.4 " aft of W.L.E. #

*For approved limits see "Approved C.G. Range Vs Weight Diagram on last page"

EQUIPMENT INSTALLED

ITEM	WT.	ARM ABOUT WING L.E.
<input checked="" type="checkbox"/> Propeller: Fixed Pitch Metal	25	(-57)
<input type="checkbox"/> Propeller: Wood Fixed Pitch	11	(-57)
<input checked="" type="checkbox"/> 8.00-4 Wheel With Brakes and 4-Ply Tires	31	(+ 2)
<input checked="" type="checkbox"/> 6x2.00 Tailwheel, Steerable	6	(+200)
<input checked="" type="checkbox"/> Battery and Box	31	(+84)
<input checked="" type="checkbox"/> Position Lights	3	(+65)
<input checked="" type="checkbox"/> Lyc. Engine O-290-D2		
<input checked="" type="checkbox"/> Right Wing Tank		
<input type="checkbox"/> Battery and Box	31	(+59)

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ACTUAL WEIGHT AND BALANCE

MODEL PA-18 #135
 MODEL PA-18A #135

LYCOMING O-290-D2 ENGINE INSTALLATION

APPROVED BY Jessie M. Trickett
 Weight and Balance Engineer

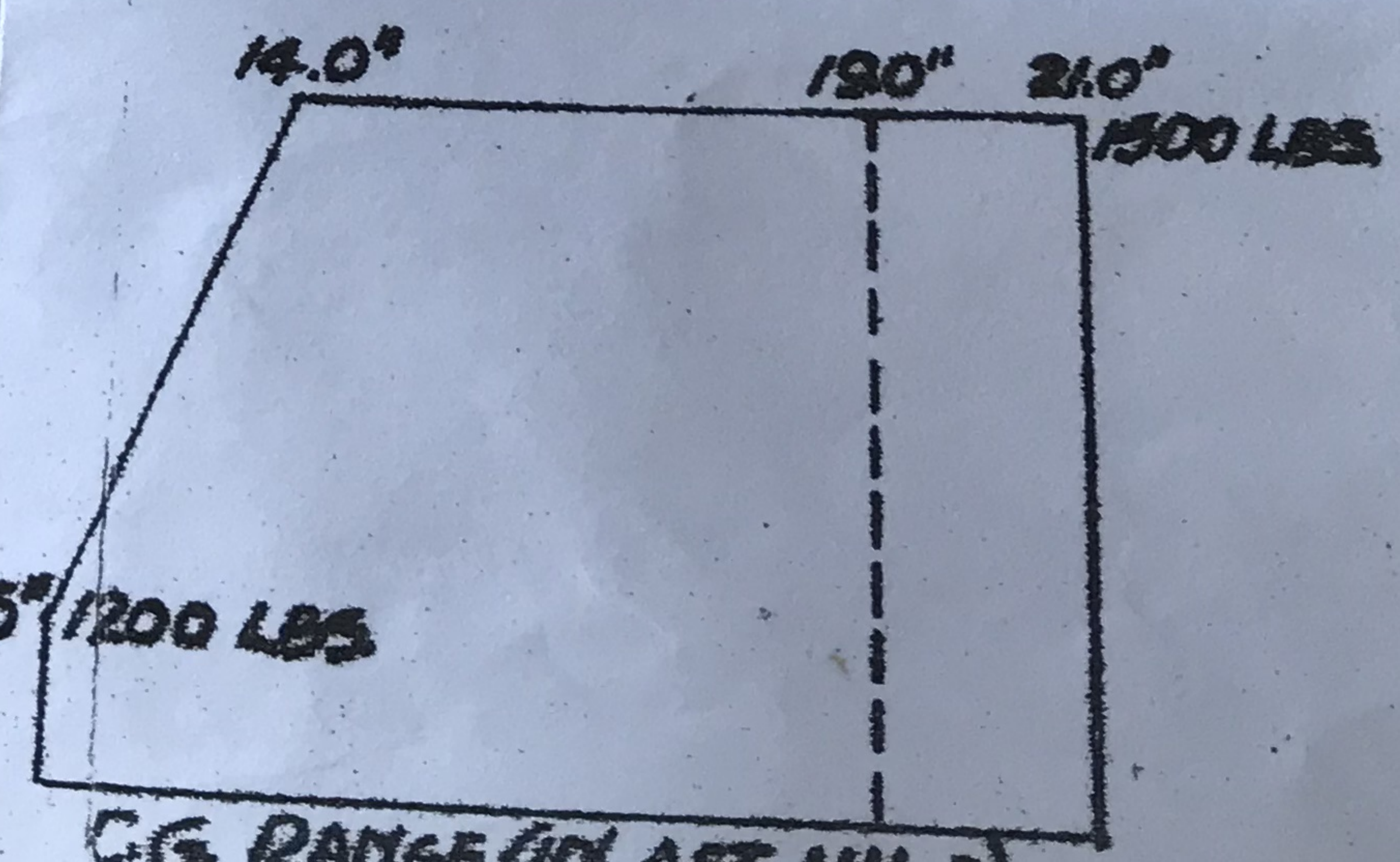
SERIAL NO. 18-3655 N 8214 C

DATE JULY 6, 1954

EMPTY WEIGHT *AS WEIGHED*
 (Including items listed on last page)

	Scale Reading	Tare	Net
Left Wheel	<u>469</u>	<u> </u>	<u>469</u>
Right Wheel	<u>465</u>	<u> </u>	<u>465</u>
Tail Scale	<u>69</u>	<u>12</u>	<u>57</u>
Total			<u>991</u>

APPROVED C.G. RANGE VS WEIGHT



AIRPLANE WEIGHT

C.G. RANGE (IN FT AFT WING LE)
 NORMAL CATEGORY

Report 765
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 Model PA-18 #135
 Model PA-18A #135