

Convert

204.50 slug to lb

$$1 \text{ slug} = 32.1740 \text{ lb}$$

$$32.1740 \times 204.50 \\ = 6579.583 \text{ lb}$$

$$P.E = mgh = fd$$

$$PE = fd$$

$$d = \frac{PE}{f}$$

$$\frac{593347 \text{ lbf}}{6579.583}$$

$$= 901.80 \text{ ft}$$