

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data			
Owner:	Mr Duhrkopf	Ejection Occurred		Apogee Altitude:	290 Ft		
Rocket Name:	Big Sharky	“ During Ascent	“ At Apogee	Top Speed:	91 mph		
Type:	Modelrockets.us	“ After Apogee	“ During Descent	Burn Time (burn):	2.21 s		
Length: (inches)	22.625	“ Ejection Failure		Peak Acc (Pacc):	7.2g		
Diameter: (inches)	1.645	Parachute Deployment		Avg Acc (Aacc):	1.96g		
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	2.5 s		
Listed Mass: (g)	85 g	“ Did not deploy		Apogee to Eject (AP2E):	2.4 s		
Date of Construction:	9/4/2012	Parachute Descent		Ejection Alt. (EALt):	227 Ft		
Recommended Motors: (C only)		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	12 mph		
C6-3, C6-5		“ Some swaying	“ Sprial descent	Flight Duration (durA):	19.3 s		
Building Notes		Reason for Recovery Failure		Altimeter Data Analysis			
Center Gravity(CG):	13.77 in from nose	“ Damaged Chute		Everything looks good			
Center Pressure(CP):		“ Tight Upper Body tube					
Had trouble with the stickers, couple fins are chipped. shouldn't effect performance		“ Improper setup					
		“ Chute Separated					
		“ Motor Ejected					
Estimated Cd:	0.5	“ Unplanned Separation					
Predicted Altitude:	400 Ft	“ Other					
Prediction Notes		Descent Speed		Prediction vs Actual Analysis			
company says 650 ft which is way off. My mass is similiar to listed. Picked 400 ft due to the 4 previous flights. Wind will play a big factor in the altitude		“ Slow	“ Average speed	Way off. Trajectory was way off. Wind could be the issue, could be the setup			
		“ Very fast	“ Ballistic				
		Landing					
Launch Information		“ Soft	“ Water				
		“ Tree	“ Caught on Wire				
Date:	9/23/2014	“ Hard	“ Crash				
Time of Launch:	4th	“ Landed on Building		Post Launch Information			
Location:	little kids soccer	Recovery		Flight Grade			
Rocket Mass(g):	83.1	“ Full Recovery	“ Lost	“ Excellent			
Motor:	C6-5	“ Not Recoverable	“ Parts lost	“ Good			
Motor Mass(g):	25	Distance & Direction from pad:		“ Fair			
Altimeter Mass(g):	9.9	20 yds south on the road		“ Poor			
Liftoff Mass(g):	118	Recovery Notes		“ Rocket cannot launch again			
Wind Direction:	south	chute popped way after apogee. Landed hard on the shoulder of the road		Describe any damage to the rocket:			
Wind Speed:	11 mph			Loose fin but is repairable, nicks on ther fins			
Igniter:	Estes						
Igniter:	Estes	Lessons Learned		Rocket Project Suggestions			
No. of tries to ignite:	1			C6-5 is too much delay time if the rocket does not travel straight up. Very easy to have rocket not go straight up when windy		Try not to launch in windy conditions	
Ignition							
“ Successfull	“ Blow Out						
“ Caught on clips	“ Motor Failure	Trajectory					
						“ Straight-Up	“ Spinning
						“ Corkscrew	“ Non-vertical
“ Into the wind	“ Unstable	Launch Notes					
Put into wind a little. Almost sideways from the start							