GOLD CHAIN COWBOY

ES-4

EVOLUTION
space

PRESS KIT

April 22, 2023

www.evolutionspace.com

MISSION INFO

ACHIEVEMENT	First Successful Company Space Mission
SPACE RANKING	9th Privately Funded US Startup to Reach Space
SOLIDS SPACE RANKING	2nd Privately Funded US Solid Propulsion Startup to Reach Space
LAUNCH TIME	8:10AM PT (Local Time), April 22, 2023
MAX ALTITUDE	408,456 ft | 124.5km
MAX VELOCITY	Mach 5.2
PAYLOAD	**"Intergalactic Genesis"** Art Collection by Chad Knight
LAUNCH SITE	F.A.R. Launch Complex, Mojave, California

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MISSION OVERVIEW

Gold Chain Cowboy is the company's first successful mission to pass the Kármán Line and achieve space. The mission, primarily serving as a propellant and avionics test launch, was conducted at the company's product test site located near Mojave, California. The rocket launched at 8:10am PT local time (15:10:34 UTC) on April 22, 2023.

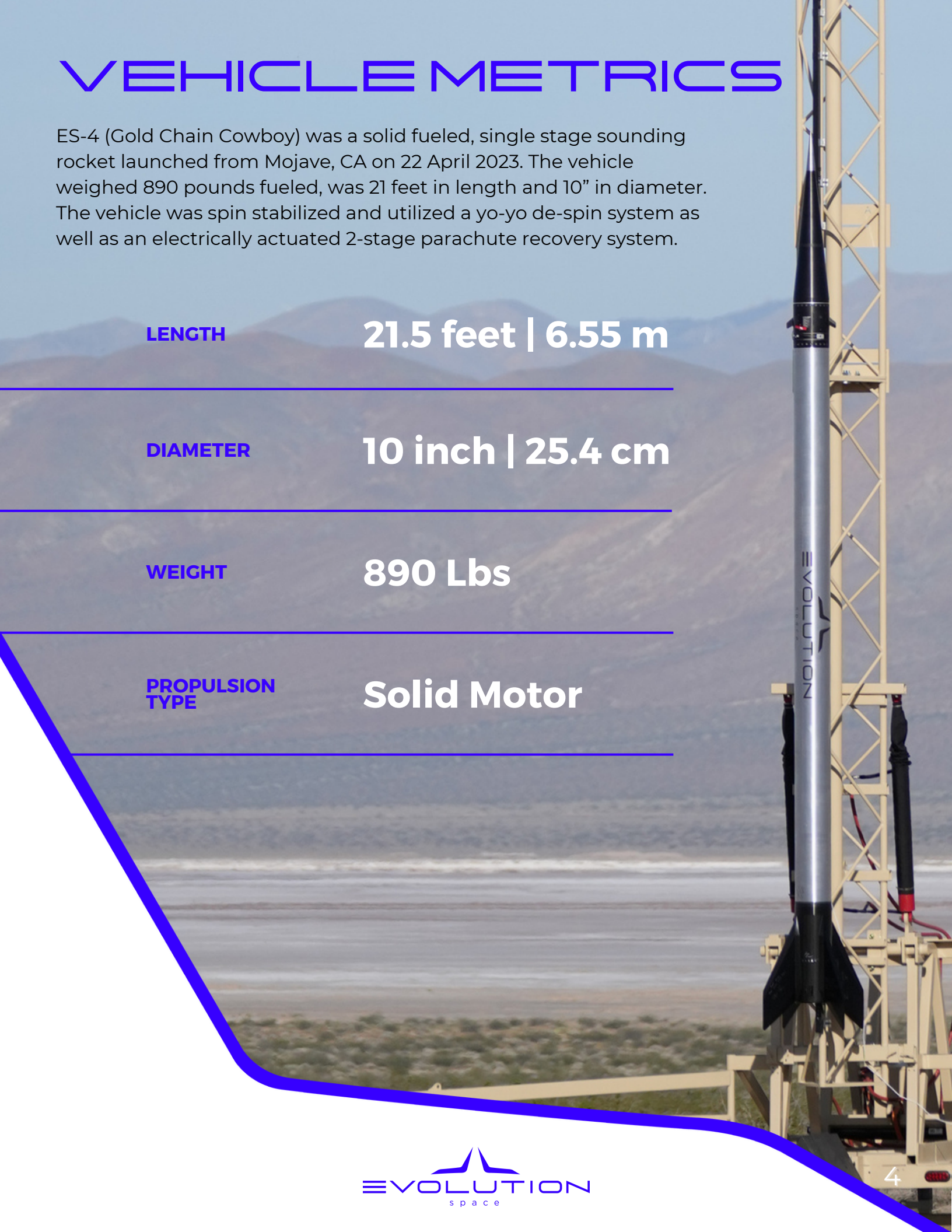
In addition to product testing, Evolution Space collaborated with Uplift, an aerospace service broker that offers suborbital, orbital, and International Space Station opportunities, to send a small-scale payload to space and back. This payload was comprised of the physical components of Chad Knight's "Intergalactic Genesis' art collection that were auctioned off soon after the launch was completed.

**The mission name, Gold Chain Cowboy is a reference to the debut album from musician Parker McCollum.*

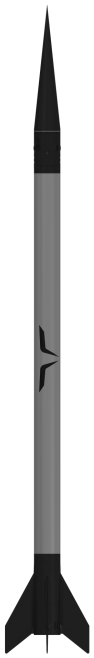
VEHICLE METRICS

ES-4 (Gold Chain Cowboy) was a solid fueled, single stage sounding rocket launched from Mojave, CA on 22 April 2023. The vehicle weighed 890 pounds fueled, was 21 feet in length and 10” in diameter. The vehicle was spin stabilized and utilized a yo-yo de-spin system as well as an electrically actuated 2-stage parachute recovery system.

LENGTH	**21.5 feet | 6.55 m**
DIAMETER	**10 inch | 25.4 cm**
WEIGHT	**890 Lbs**
PROPULSION TYPE	**Solid Motor**



MISSION SEQUENCE



Sequence of Events:

T+0 sec (15:10:34 UTC): Liftoff

T+12.6 sec: Motor burnout @ 37,571’ MSL, Mach 5.2

T+68.9 sec: De-spin anomaly occurs.

T+166 sec: Apogee 408,456 ft MSL

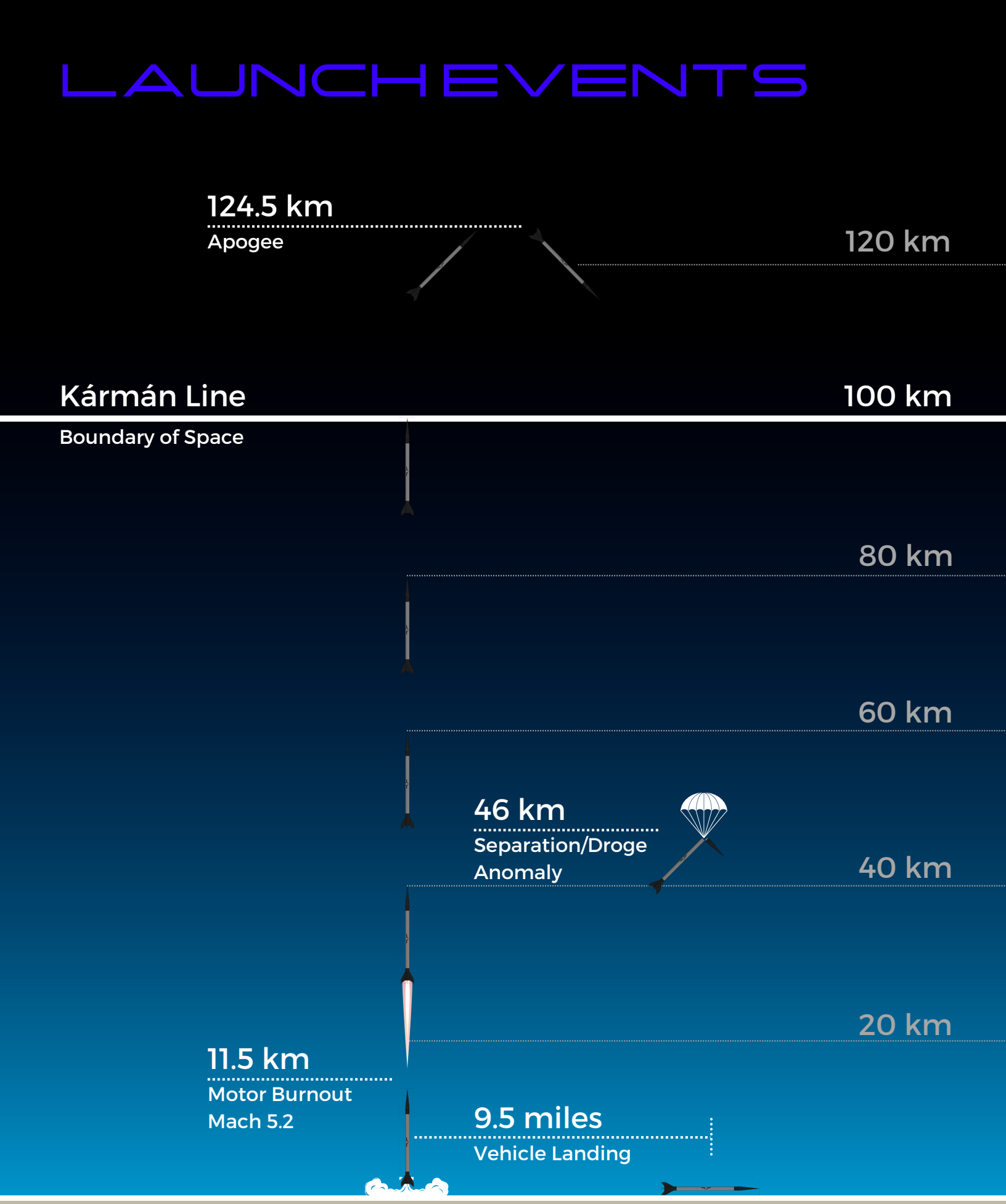
T+269 sec: Electronic release mechanism actuated.

T+270 sec: NC Separation Anomaly

T+300 sec: NC separation detected.

T+411 sec: Vehicle lands

LAUNCH EVENTS



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aaron@evolutionspace.com

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