

1970

## 10:56:20 PM EDT 7/20/69 (Man on the Moon)

Lou Dorfsman

CBS Corporate Entertainment and News Divisions

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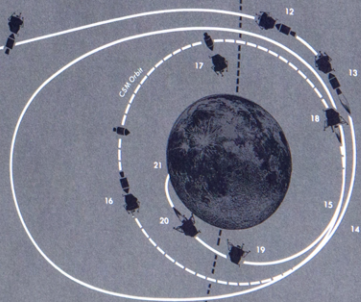
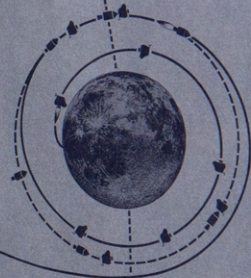


10:56:20PM 7/20/69 © CBS NEWS



**On the Way**

- 1 Lift-off
- 2 Second stage ignites. Launch escape tower is jettisoned
- 3 Second stage separates; third stage ignites
- 4 Earth parking orbit
- 5 Third stage re-ignites
- 6 Translunar injection
- 7 CSM separates from rest of vehicle
- 8 CSM turns around 180 degrees
- 9 CSM docks with Lunar Module (LM), which is still attached to third stage
- 10 Ignite service propulsion engine
- 11 Reduce service propulsion engine
- 12 Clear rise correction
- 13 LM lunar orbital attitude
- 14 Lunar orbit insertion
- 15 Begin lunar orbit
- 16 Circularize lunar orbit
- 17 Ploos transfer to LM
- 18 CSM and LM separate
- 19 Descend orbit insertion
- 20 After LM inertial guidance system
- 21 Landing on moon



10:56:20 PM <sup>EDT</sup>  
7/20/69

*The historic conquest of the moon as reported to the American people  
by CBS News over the CBS Television Network.*

## Foreword

At 10:56:20 p.m. EDT, July 20, 1969, man first stepped on the moon. It took place 238,000 miles out in space, yet it was shared by hundreds of millions of people on earth. The step on the moon was an awesome achievement; so was its reporting on television because it emphasized television's extraordinary ability to unify a disparate world through communicating with so many people, in so many places, and thus providing them with a common—and an extraordinarily satisfying—experience.

Like all experiences recorded by television, this one was ephemeral. It flashed on the screen and was gone. This book, which attempts to recapture some of the reality of this unique experience, also permits all of us, in some small measure, to recall that experience in more permanent form. In this sometimes discouraging and frustrating world, it is worth preserving a moment of pride in the ability of man to do what he sets his mind to do. It not only serves as a mark of what man has done, but what, with similar determination and cooperative effort, he can do in the future to achieve other goals, closer to home. And so, this book not only seeks to crystallize the images that CBS News brought to the screen, but recounts the story of the intricate logistics and inventive techniques of the men on camera and behind the camera who made this reality possible.

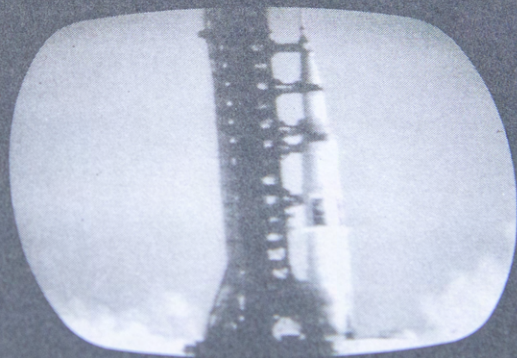
For my colleagues at CBS News, and for myself, covering "Man on the Moon: The Epic Journey of Apollo 11" ranks as the single most satisfying effort in our collective experience as journalists. All too often we are forced to report man's shortcomings. In this instance, from the moment of blast-off to the moment of splashdown we were continually conscious of being involved in one of the great triumphs of the human spirit.

This consciousness involved our total energies and efforts. It en-

abled us to meet some of the most formidable challenges ever faced by electronic journalism. Because it was one of man's greatest achievements, it was one of television's great achievements. And just as Apollo 11 could not have been achieved without the extraordinary genius and dedication of hundreds of thousands of Americans who stood behind the three astronauts, so the CBS News broadcast could not have been achieved without the magnificent dedication and excellence of the hundreds of people who make up CBS News.

RICHARD S. SALANT  
*President, CBS News*

The Launching  
July 16





*Wednesday, July 16, 1969*

***Mission Control:*** We are still go with Apollo 11...30 seconds and counting. Astronauts reported "Feels good." T-25 seconds. 20 seconds and counting. T-15 seconds, guidance is internal, 12, 11, 10, 9, ignition sequence starts, 6, 5, 4, 3, 2, 1, zero, all engines running, lift-off. We have a lift-off, 32 minutes past the hour. Lift-off on Apollo 11. Tower cleared.

It is 9:32 a.m. EDT on Wednesday, July 16, 1969. Millions of Americans and countless millions around the world have waited for this moment. Astronauts Neil Armstrong, Edwin "Buzz" Aldrin and Michael Collins are riding a huge Saturn V rocket, lifted by 7,500,000 pounds of thrust, on their way to a date with history.

At lift-off, the CBS News studio at Cape Kennedy, which only five minutes before had been a scene of great activity, was virtually empty. Only Correspondent Walter Cronkite, former astronaut Wally Schirra, producer Joan Richman, stage manager David Fox, the cameramen and two technicians were in the studio as the countdown entered its final minutes. Everyone who could had gone outdoors to watch the launch.

At the precise second of ignition all attention turned to the launch pad, and everyone moved to the window for a better view of the drama

the moon were delayed by a good old-fashioned traffic jam. The usual 12 minutes from when they left the building to the time when the first astronaut entered the Command Module stretched to 27 minutes.

Eric Sevareid, who was seeing his first manned shot, described those early hours and his reactions in a talk with Cronkite shortly before lift-off.

**Cronkite:** *What's the view out there from the outside, Eric?*

**Sevareid:** *Walter, the heat is beginning to rise. Some slight haze gathering in the atmosphere. You don't quite see the rocket out there as distinctly as we saw it shortly after dawn. The heat is like a silk cloth you put across your face. Before dawn the rocket out there was all lit up, pure white. It looked like the North Pole would look if it was really a pole, with lights of the aurora borealis going out in every direction in the black skies around.*

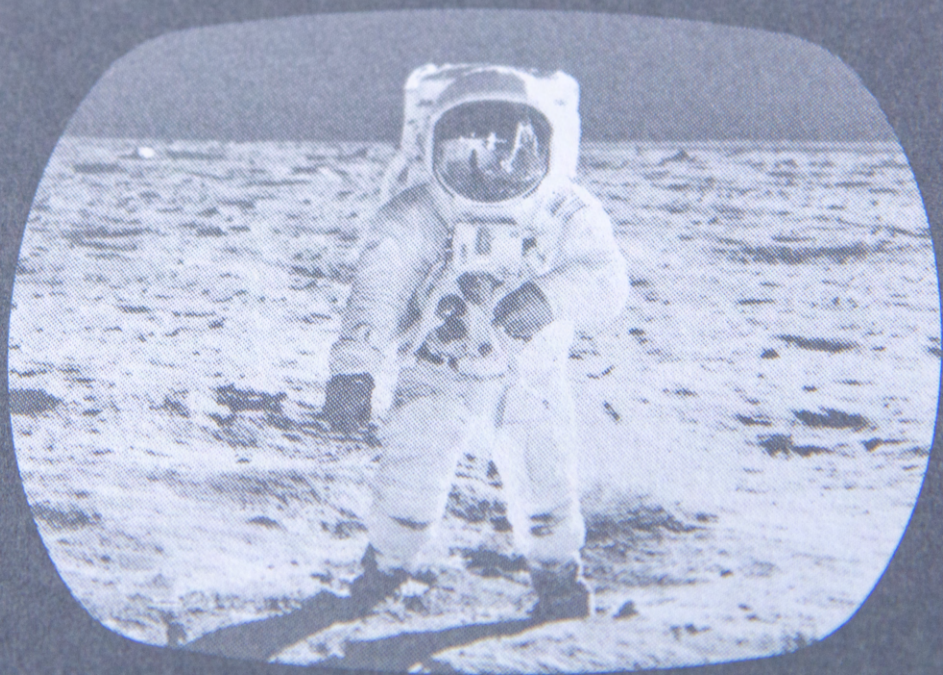
*The whole country around here is a kind of vast launching pad. This is big sky country. It's very flat. It's right-angle country. And the crowd is always knots of people. There's not a carnival atmosphere here really. You've got the snack shops and all the rest, all the trailers, but there is a quiet atmosphere and when the vans carrying the astronauts themselves went by on this roadway just now, there was a kind of a hush among people. Those things move very slowly as though*

near the terminator, the point where the astronomical light into darkness, was clearly visible.

As they crossed the terminator, they trained back through the window for a last look before the astronauts had just passed the 24-hour point in lunar landing, and in an hour would fire the service engine to lower them into a circular parking orbit on the moon. Armstrong and Aldrin would go back in to check its systems; then the astronauts would rest.

Tomorrow was the big day.

# Man on the Moon July 20, 21



*Sunday, July 20—Monday, July 21*

The voice is that of CBS News Correspondent Charles Kuralt. It is 11:00 a.m. EDT, Sunday, July 20:

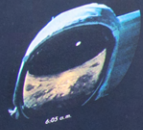
*In the beginning God created the heaven and the earth. And the earth was without form and void. And darkness was on the face of the deep. Some five billion years ago, whirling and condensing in that darkness, was a cloud of inter-stellar hydrogen, four hundred degrees below zero, eight million miles from end to end. This was our solar system, waiting to be born.*

*A hundred million years passed. And God said "Let there be light." And there was light at the center of that whirling cloud as a protostar began to form, its gravitational pull attracting larger and larger mass—rotating faster and faster. And in that condensation and heat the sun was born—in fire out of cold—ever smaller and ever more brilliant, ringed with those satellites that were to be its planets. Two protoplanets—the earth and the moon—now separate gaseous eddies mutually trapped in their gravitational pull, moving in tandem orbit around the sun and growing more dense. Through space and time the*

**10:56:20**  
**A Pictorial Essay**



# The Launching July 16



8:05 a.m.



8:06



8:07



8:08 DeWitt Booden and Michael Smith at Cape Kennedy



Breakfast (Recorded)



8:27



8:37 DeWitt Booden and Michael Smith

LAUNCH PAD 32A

8:48



8:49



9:04 Heywood Hale Brown on the beach



9:10



9:31 30 seconds and counting



00:02

9:31:05



00:01

9:31:39



9:32

"Lift-off"



9:32

Johnson and Agnew



9:32

"We have to lift-off."



9:32



9:32

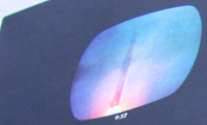


9:32



9:32

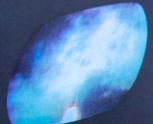
"Tower cleared"



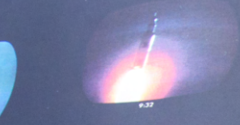
9:32



9:32



9:32



9:32



9:32



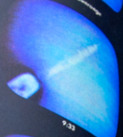
9:32



9:32



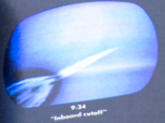
9:31  
"Group discussion"



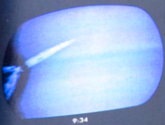
9:31



9:31  
"You are so far away"



9:34  
"Behind the light"



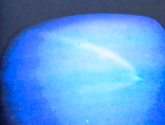
9:34



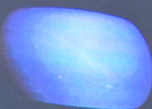
9:34  
"Singing and ignition"



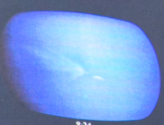
9:34



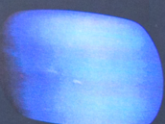
9:34



9:34



9:34



9:34



9:34  
"On the bench"



RECORDED  
9:34



9:36



9:37





11:49



11:49  
Anchor C. Clark and Cronkite



11:57



11:49



11:30



12:03 p.m.  
Bruce Morton of Houston



11:31  
Replica of plaque to be left on the moon



11:57



11:57



12:00



12:20



12:24



12:25

Cronkite reminisces about old days at the Cape



12:33

Schirra describes lunar pin



12:49



12:53



12:50

Command Module separates...



12:57



12:52

CBS NEWS STRAHLTON



12:59

CBS NEWS STRAHLTON

... docks with Lunar Module and pulls away from third stage



12:52

CBS NEWS STRAHLTON



12:53

12:53

# On the Way Live Transmission July 17



7:33 p.m.



7:34



7:37



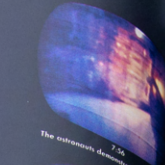
7:45  
Michael Collins



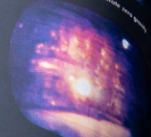
7:47



7:47



7:56  
The astronaut demonstrates how to



... by passing a flashlight beam and laser



7:58



7:58



7:59



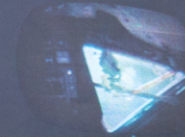
8:00  
The Apollo 11 patch



5:57  
Aldrin attaches camera in LM window



6:04  
Aldrin describes his helmet



5:58



6:04



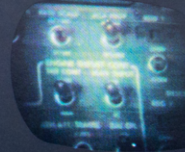
6:00  
Control panel



6:04



5:55 p.m.  
Aldrin in Eagle



6:02  
Control panel



6:03



5:56

The white dot that appears in the following pictures is a hole that was burned in the imaging tube of the Westinghouse camera that the astronauts took aboard Apollo 11. The hole was burned in the tube when the camera was focused on an extremely bright object.

Aldrin in LM as seen from Command Module

# Man on the Moon July 20, 21

Using an original film, Charles Everett showed the world the first live broadcast of a public distribution of the creation of the moon and its effect on life on earth.



11:03



11:04



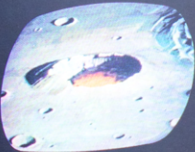
11:04



11:05



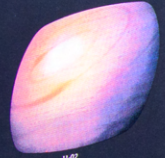
11:00 p.m.



11:04



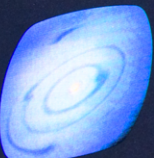
11:05



11:02



11:06



11:02



11:02



11:07  
Crankie in place in New York



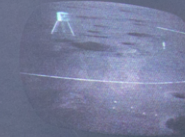
11:21  
George Herman at Flagstaff



11:29



11:15  
Bruce Marton in Houston



11:22  
John Hart at Cinder Lake



11:30



11:17  
Maryn McLaughlin in Houston



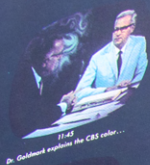
11:23  
Bill Plante in New York



11:30



11:30



11:43  
Dr. DeLoach explains the CBS color...



11:54  
Bob Fatter  
At the White House



11:57  
...with Marilyn Safir at JFK airport



11:57  
...field reporter introduces system...



11:57  
George Stryker in Tokyo



12:02 a.m.  
George Stryker in Tokyo



11:47  
...and aboard Apollo 11



12:15  
Astronaut Tom Stafford with Buzz Aldrin



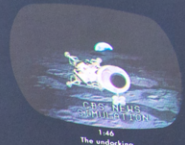
11:51  
Nevill Bush, Arthur C. Clarke,  
Schine and Harry Reasoner



12:41  
Bill Huskell at Mystic Seaport, Conn.



1:30  
Mike Wallace  
LONDON ENGLAND



1:46  
The undocking



12:58  
Don Wayne in Dayton



1:32  
...in Paris  
PETER SULZISCHER



1:47  
"The Eagle has wings."



1:03  
Barry Serafin in St. Louis



1:36  
Marvin Kalls in Bucharest



1:57



1:17  
Karl Vonnegut, Jr. joins Clarke and Reasoner



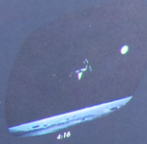
1:38  
Gerald Miller at Rome's Spanish Steps



2:41  
Ira Magaziner and Gloria Steinem discuss



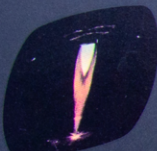
1:39  
...reporting from Rome  
WINSTON BURDETT  
CBS NEWS



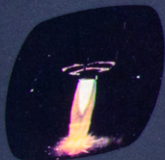
4:16



4:16



4:16



4:16



4:17-42  
"Man on the moon!"



4:18



4:18



4:18

"I've been saying them all under my breath."



4:19



4:19

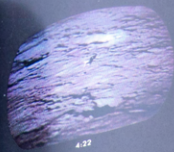


4:19

"Where, boy..."



4:19



4:22



4:27

LIVE VOICE OF  
ASTRONAUT ALDRIN



4:29



4:57

Mr. and Mrs. Stephen Armstrong



4:57



4:57



4:57



5:10



5:12

Joseph Benti at Kennedy Airport



5:18

Brown of Disneyland



DR. TERRY DUFFIELD  
ASTROGEOLOGIST

5:42

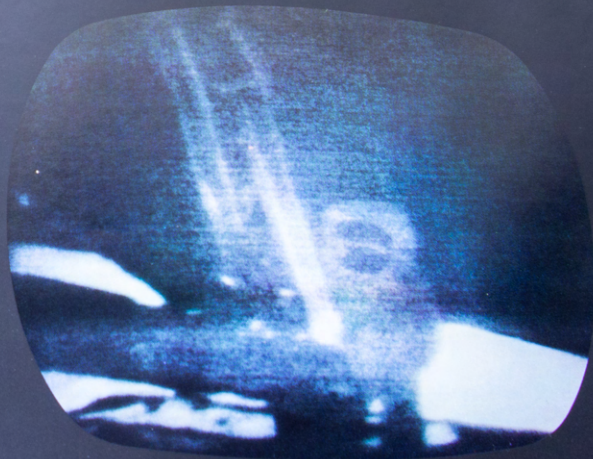
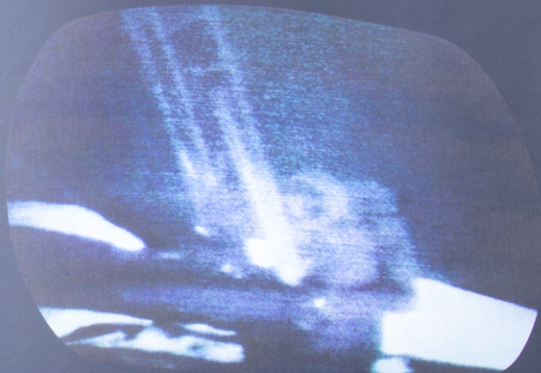
...with George Herman at Flagstaff



THOMAS PAINE

5:50

...at Mission Control





10.56  
...one great leap for mankind.™



11:39



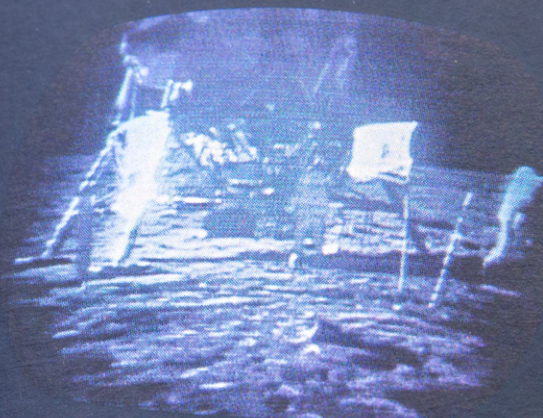
11:43



11:46



11:40



11:43



11:46



President Nixon





forward...altitude-velocity lights...3½ down...50, down at 2½,  
19 forward...coming down nicely...200 feet, 4½ down...13 forward  
...11 forward, 6½ down...5½ down, 9 forward...5 percent...quantity light 75 feet.  
Things still looking good, down a half...6 forward...lights on...down  
2½...forward...40 feet, down 2½, kicking up some dust...30 feet, 2½  
down...faint shadow...4 forward...4 forward, drifting to the right a  
little...6...drifting right...

*Cronkite: Boy, what a day.*

*Capcom: 30 seconds.*

*Eagle: Contact light. O.K. engine stopped...descent engine command  
override off...*

*Schirra: We're home!*

*Cronkite: Man on the moon!*

*Eagle: Houston, Tranquility Base here. The Eagle has landed!*

*Capcom: Roger, Tranquility. We copy you on the ground. You've got  
a bunch of guys about to turn blue. We're breathing again. Thanks  
a lot.*

*Tranquility: Thank you.*

## Homeward Bound

- 22 Lift-off from moon.
- 23 LM ascent.
- 24 LM heads into orbit nearly matching that of CSM.
- 25 LM changes plane of its orbit.
- 26 LM and CSM fly in tandem.
- 27 Final rendezvous maneuver begins.
- 28 Rendezvous.
- 29 CSM and LM dock.
- 30 Transfer crew and equipment from LM to CSM.
- 31 CSM and LM separate; LM is jettisoned.
- 32 Transearth injection.
- 33 Midcourse correction.
- 34 CM and SM separate.
- 35 Orient CM for re-entry.
- 36 Re-enter earth's atmosphere.
- 37 Communications blackout period.
- 38 Jettison forward heat shield and deploy drogue chute.
- 39 Deploy main chutes.
- 40 Splashdown.

