

1

00:00:00,000 --> 00:00:10,000

I'm always listening for the footsteps of the souls I left to burn.

2

00:00:10,000 --> 00:00:13,000

Wondering am I dead yet?

3

00:00:13,000 --> 00:00:15,000

Did the innocence get their turn?

4

00:00:15,000 --> 00:00:19,000

Am I marching?

5

00:00:19,000 --> 00:00:25,000

Am I marching?

6

00:00:25,000 --> 00:00:33,000

Walking with the ones who fill my watching in the hill.

7

00:00:43,000 --> 00:00:45,000

Whoa, what happened there?

8

00:00:45,000 --> 00:00:48,000

It's this symbol for infinity.

9

00:00:48,000 --> 00:00:51,000

Well, eat up, your breakfast won't stay warm forever.

10

00:00:51,000 --> 00:00:53,000

It's true.

11

00:00:53,000 --> 00:00:55,000

Nothing lasts forever.

12

00:01:02,000 --> 00:01:04,000

Alright, you ready for this?

13

00:01:05,000 --> 00:01:07,000

Blow it out of the water.

14

00:01:07,000 --> 00:01:10,000

Okay, let's do it. Let's blow it out of the water.

15

00:01:21,000 --> 00:01:40,000

Alright, today we have an entire episode devoted to the phrase,

16

00:01:40,000 --> 00:01:42,000

blowing it out of the water.

17

00:01:42,000 --> 00:01:46,000

Which has come to mean a kind of overwhelming victory against the enemy, right?

18

00:01:46,000 --> 00:01:47,000

Exactly right.

19

00:01:47,000 --> 00:01:52,000

And in that sense of the phrase, later we've got the finale of Breaking Bad.

20

00:01:52,000 --> 00:01:58,000

Could Walter White's machine gun booby trap really have taken out all of his enemies?

21

00:01:58,000 --> 00:02:02,000

But first, we're actually going to test the literal meaning of the myth,

22

00:02:02,000 --> 00:02:05,000

which comes from Submarinus from World War II.

23

00:02:05,000 --> 00:02:08,000

Apparently, occasionally, when they sent a torpedo toward a ship,

24

00:02:08,000 --> 00:02:13,000

they would watch that ship blow completely out of the water instead of blowing up.

25

00:02:13,000 --> 00:02:15,000

How epic are we going to take this?

26

00:02:15,000 --> 00:02:18,000

I figure we got to get pretty epic with it.

27

00:02:18,000 --> 00:02:19,000

Cool.

28

00:02:19,000 --> 00:02:23,000

Blowing a boat out of the water instead of into pieces

29

00:02:23,000 --> 00:02:29,000

might only happen if the relative positions of ship and shockwave are spot on.

30

00:02:32,000 --> 00:02:37,000

And to find out just that, the mythbusters are starting in miniature.

31

00:02:37,000 --> 00:02:40,000

Now, when we say we're going to blow a boat out of the water,

32

00:02:40,000 --> 00:02:45,000

we mean specifically blow a boat out of the water, not blow up a boat.

33

00:02:45,000 --> 00:02:46,000

That's not what we want.

34

00:02:46,000 --> 00:02:49,000

So, we're going to start with this beautiful tank.

35

00:02:49,000 --> 00:02:53,000

It is large enough for us to detonate our miniature explosives.

36

00:02:53,000 --> 00:02:55,000

Oh, f***.

37

00:02:55,000 --> 00:02:58,000

And our boat, which still seems a little bit of work.

38

00:03:00,000 --> 00:03:05,000

Their 15 grams of black powder is perfectly scaled for a setup this size.

39

00:03:05,000 --> 00:03:10,000

But to find out if it can lift the boat rather than obliterate it, placement is key.

40

00:03:11,000 --> 00:03:15,000

Now, we figured there's a certain depth at which the explosive reaches this optimal relationship

41

00:03:15,000 --> 00:03:20,000

between the water and the boat to send the boat flying itself out of the water.

42

00:03:20,000 --> 00:03:22,000

And that depth is what we want to find.

43

00:03:22,000 --> 00:03:23,000

Ow.

44

00:03:23,000 --> 00:03:26,000

And first up will be, I guess, our control.

45

00:03:26,000 --> 00:03:27,000

Perfect.

46

00:03:27,000 --> 00:03:31,000

Which will be the explosives at the boat on the surface of the water.

47

00:03:31,000 --> 00:03:33,000

All right, Hanuman, you ready?

48

00:03:33,000 --> 00:03:34,000

I'm ready.

49

00:03:34,000 --> 00:03:38,000

All right, three, two, one, go.

50

00:03:38,000 --> 00:03:40,000

Whoa!

51

00:03:43,000 --> 00:03:44,000

Go.

52

00:03:44,000 --> 00:03:46,000

Whoa!

53

00:03:46,000 --> 00:03:47,000

Ha ha ha ha!

54

00:03:47,000 --> 00:03:49,000

There's no more boat.

55

00:03:49,000 --> 00:03:51,000

Ha ha ha ha!

56

00:03:52,000 --> 00:03:54,000

That was genuinely thrilling.

57

00:03:54,000 --> 00:04:04,000

That was spectacular and kind of shockingly beautiful.

58

00:04:04,000 --> 00:04:12,000

Look at how this glowing ball forms this two-foot diameter hole in the water.

59

00:04:12,000 --> 00:04:15,000

It's almost perfectly spherical before it starts to collapse on itself.

60

00:04:15,000 --> 00:04:19,000

And the boat, well, the boat, she is no more.

61

00:04:19,000 --> 00:04:25,000

So, now we're trying to find the depth at which to lift the boat rather than turn it into a bunch of little chunks.

62

00:04:25,000 --> 00:04:31,000

And frankly, given the size of that sphere of explosion, I'm thinking about going halfway down,

63

00:04:31,000 --> 00:04:35,000

12 inches below the surface for the next cherry bomb.

64

00:04:37,000 --> 00:04:42,000

Okay, from halfway down the tank, three, two, one.

65

00:04:49,000 --> 00:04:52,000

This time, the boat's not been totaled.

66

00:04:52,000 --> 00:04:55,000

We need a hose out of here right away.

67

00:04:55,000 --> 00:04:58,000

We've got electrical cords, need to be picked up.

68

00:04:58,000 --> 00:05:01,000

But the tank has f***ed me.

69

00:05:01,000 --> 00:05:07,000

With more scale tests to come, it's all hands to the pump to salvage some science.

70

00:05:08,000 --> 00:05:11,000

But it's not all doom and gloom.

71

00:05:11,000 --> 00:05:16,000

Well, our breach tank notwithstanding, that last test was beautiful.

72

00:05:16,000 --> 00:05:22,000

As it explodes, you can see this perfect sphere of fire expand.

73

00:05:22,000 --> 00:05:26,000

And as it's expanding, pushes the boat literally out of the water.

74

00:05:26,000 --> 00:05:29,000

It was exactly what we were looking for.

75

00:05:30,000 --> 00:05:32,000

Wow, that boat is going straight up.

76

00:05:32,000 --> 00:05:34,000

It's lifting it beautifully.

77

00:05:34,000 --> 00:05:36,000

It made it at least to the rim of the tank.

78

00:05:36,000 --> 00:05:38,000

At least to the rim of the tank. That's significant.

79

00:05:38,000 --> 00:05:39,000

Go!

80

00:05:39,000 --> 00:05:42,000

Unfortunately, the tank wasn't perfectly glued around the seam.

81

00:05:42,000 --> 00:05:45,000

So, we're going to empty this tank out. We're going to reseal it.

82

00:05:45,000 --> 00:05:46,000

Alright.

83

00:05:46,000 --> 00:05:48,000

We're going to try it one more time.

84

00:05:49,000 --> 00:05:50,000

Ah, yeah.

85

00:05:52,000 --> 00:05:54,000

So far, we set off two explosions.

86

00:05:54,000 --> 00:05:57,000

One right next to the boat, and then one in the middle of the water.

87

00:05:57,000 --> 00:06:00,000

Now, both of those results were entirely different.

88

00:06:04,000 --> 00:06:10,000

And so, this time, we're going to put the explosion much further away, right on the bottom of our tank, and we'll see what that does.

89

00:06:10,000 --> 00:06:13,000

This is deck charge at the bottom of the tank.

90

00:06:13,000 --> 00:06:17,000

Three, two, one, go!

91

00:06:21,000 --> 00:06:22,000

Go!

92

00:06:22,000 --> 00:06:24,000

Boat upside down error.

93

00:06:24,000 --> 00:06:26,000

But, no leaks.

94

00:06:26,000 --> 00:06:27,000

Go!

95

00:06:31,000 --> 00:06:34,000

It would be kind of upsetting to be turned upside down instantly, though.

96

00:06:34,000 --> 00:06:36,000

I believe that's the very definition.

97

00:06:37,000 --> 00:06:38,000

Slow down.

98

00:06:38,000 --> 00:06:42,000

It's clear that test three did lift the boat up and out.

99

00:06:42,000 --> 00:06:44,000

But not as much as test two.

100

00:06:46,000 --> 00:06:51,000

Meaning, come full scale at depth charge position between the boat and the bottom.

101

00:06:52,000 --> 00:06:55,000

They give them the result this myth needs.

102

00:06:56,000 --> 00:07:05,000

We've learned that doing controlled experiments like this can sometimes give us clues that we didn't even know we're there as to what's really going on.

103

00:07:05,000 --> 00:07:10,000

Now, in this case, what we saw was that if the explosive is too close, it'll blow it up.

104

00:07:10,000 --> 00:07:13,000

If it's too far away, it won't move it as much.

105

00:07:13,000 --> 00:07:20,000

Now, we'll be keeping all of that as food for thought when we go out into the full scale, and hopefully we'll pick the right ratio.

106

00:07:21,000 --> 00:07:24,000

But before going large, what else is on the docket?

107

00:07:25,000 --> 00:07:28,000

So, Walter White's machine gun booby trap.

108

00:07:28,000 --> 00:07:34,000

Yes, the metaphorical testing of the phrase, blowing out of the water in the finale of Breaking News.

109

00:07:34,000 --> 00:07:42,000

The finale of Breaking Bad, Walt puts an autonomous machine gun in the trunk of his car, sets it off, and takes out all of his enemies at once.

110

00:07:48,000 --> 00:07:49,000

Spoiler alert.

111

00:07:49,000 --> 00:07:52,000

Come on, who hasn't seen Breaking Bad at this point?

112

00:07:52,000 --> 00:07:56,000

Okay, well, if I remember correctly, that was an M-60 machine gun.

113

00:07:56,000 --> 00:07:58,000

Indeed it was. What are you thinking?

114

00:07:58,000 --> 00:08:02,000

Well, that's probably got quite a kick. I figured we ought to go to the gun range and see what we're dealing with.

115

00:08:02,000 --> 00:08:04,000

I like where you're going with that. Let's do it.

116

00:08:11,000 --> 00:08:19,000

Now, Walt's booby trap depended on a lashed-down, autonomously firing M-60 machine gun in the trunk of his car.

117

00:08:19,000 --> 00:08:23,000

But could the rig he built have even held on to such a legendarily powerful weapon?

118

00:08:23,000 --> 00:08:29,000

The gun fires 550 rounds per minute. That is a lot of lead.

119

00:08:30,000 --> 00:08:35,000

Well, in order to get to know the gun, Jamie and I are going to fire it here at the Chabot Gun Club.

120

00:08:35,000 --> 00:08:38,000

Check how much recoil and power the weapon really has.

121

00:08:38,000 --> 00:08:43,000

Now, Jamie said he was coming with a gun and he's around here somewhere.

122

00:08:48,000 --> 00:08:55,000

This is the M-60 machine gun. It was developed in the 50s for the US Army and used by them through

the 90s.

123

00:08:55,000 --> 00:09:03,000

Now, this is the iconic machine gun that you would have seen hanging off the side of a helicopter gunship in any Vietnam War era footage.

124

00:09:03,000 --> 00:09:06,000

And it's what Walt had in the back of his trunk.

125

00:09:06,000 --> 00:09:12,000

There's no doubt that it's some seriously heavy artillery. But is it so powerful?

126

00:09:12,000 --> 00:09:16,000

It's the heaviest gun I've ever held. You'll feel it push back.

127

00:09:16,000 --> 00:09:20,000

That securing it on Walt's homemade mount is a mission impossible.

128

00:09:20,000 --> 00:09:22,000

Let's do it.

129

00:09:22,000 --> 00:09:26,000

To find out, Adam's starting slow by not going full auto.

130

00:09:26,000 --> 00:09:32,000

Safety is off. Alright, firing is 3, 2, 1.

131

00:09:42,000 --> 00:09:45,000

Woo! That was cool.

132

00:09:46,000 --> 00:09:50,000

I just fired 45 rounds from the M-60.

133

00:09:51,000 --> 00:10:00,000

And frankly, it doesn't have as much recoil as I thought it would, but it is a heavy piece of machinery and there is a lot of movement.

134

00:10:05,000 --> 00:10:13,000

The gun mount in the back of our car is going to have to withstand a lot of shaking and not just for accuracy, but also for general safety.

135

00:10:13,000 --> 00:10:17,000

With less push than predicted, Walt's plan may have potential.

136

00:10:17,000 --> 00:10:21,000

But will that change when the guns crank to the max?

137

00:10:21,000 --> 00:10:24,000

Alright, okay, here we go.

138

00:10:30,000 --> 00:10:32,000

Wow!

139

00:10:33,000 --> 00:10:43,000

Holding onto that M-60 while it's firing a continuous stream of bullets is, well, it's kind of like trying to throttle a full-size and very angry snake.

140

00:10:43,000 --> 00:10:45,000

Which, by the way, I've done.

141

00:10:45,000 --> 00:10:49,000

It does push back in line with the gun a little bit.

142

00:10:51,000 --> 00:10:54,000

But it's not too bad. It's quite a nice machine.

143

00:10:54,000 --> 00:11:01,000

It's so far so good, but to copy the clip more closely, the guys are next adding a target.

144

00:11:01,000 --> 00:11:02,000

Nailed it.

145

00:11:02,000 --> 00:11:04,000

And that's not all.

146

00:11:04,000 --> 00:11:05,000

Okay, here we go.

147

00:11:05,000 --> 00:11:13,000

Because this time, Jamie's going to be firing 200 rounds with the gun secured on a tabletop tripod.

148

00:11:13,000 --> 00:11:17,000

Three, two, one.

149

00:11:25,000 --> 00:11:31,000

Firing at its maximum capacity, the bullets leave the barrel at a rate of 9 per second.

150

00:11:31,000 --> 00:11:39,000

But thanks to the gun's weight and engineering, the recoil, especially when shot from a tripod, is surprisingly slight.

151

00:11:40,000 --> 00:11:47,000

Meaning that firing it from a homemade mount might not be Hollywood hijinks.

152

00:11:51,000 --> 00:11:53,000

I think you'd be hurting.

153

00:11:55,000 --> 00:11:56,000

Still to come.

154

00:11:56,000 --> 00:11:57,000

Hey!

155

00:11:57,000 --> 00:12:00,000

The guys go big or go home.

156

00:12:00,000 --> 00:12:01,000

Boom.

157

00:12:01,000 --> 00:12:05,000

And a special guest joins the Breaking Bad blowout.

158

00:12:05,000 --> 00:12:07,000

That is the real deal.

159

00:12:07,000 --> 00:12:09,000

Oh, Vince Gilligan, the creator of Breaking Bad.

160

00:12:21,000 --> 00:12:23,000

Can we talk business?

161

00:12:23,000 --> 00:12:29,000

In Breaking Bad's grand finale, Walter White ended things with a bang.

162

00:12:31,000 --> 00:12:34,000

But would his rig really have rocked?

163

00:12:34,000 --> 00:12:39,000

To find out, it's time for the Mythbusters to make their own deadly device.

164

00:12:39,000 --> 00:12:44,000

Alright, so we've got to set up the meanest crackle joke ever.

165

00:12:44,000 --> 00:12:47,000

So let's see what we got here.

166

00:12:47,000 --> 00:12:49,000

Okay, so I noticed a couple of things.

167

00:12:49,000 --> 00:12:52,000

One is that it looks like the base of this thing is...

168

00:12:52,000 --> 00:12:53,000

Oh, that's a chair base.

169

00:12:53,000 --> 00:12:55,000

Yeah, that's like this thing.

170

00:12:55,000 --> 00:12:59,000

Okay, so if that's a chair base, I'm going to write this down.

171

00:12:59,000 --> 00:13:03,000

I'm guessing that's the main pivot for the gun at its balance point.

172

00:13:03,000 --> 00:13:04,000

Yeah.

173

00:13:04,000 --> 00:13:07,000

Okay, this is a garage door opener.

174

00:13:07,000 --> 00:13:08,000

Well, wait a second.

175

00:13:08,000 --> 00:13:12,000

And look on this one, it looks like he's used a wrench.

176

00:13:12,000 --> 00:13:14,000

Oh, as a pivot arm.

177

00:13:14,000 --> 00:13:15,000

Yeah.

178

00:13:15,000 --> 00:13:17,000

Okay, so a wrench as a pivot arm.

179

00:13:17,000 --> 00:13:19,000

This is hilarious.

180

00:13:19,000 --> 00:13:22,000

Now there's the question of the key fob.

181

00:13:22,000 --> 00:13:25,000

There's three things that happen when he hits the key fob,

182

00:13:25,000 --> 00:13:27,000

which is, one, the trunk pops open.

183

00:13:27,000 --> 00:13:28,000

Yeah.

184

00:13:28,000 --> 00:13:30,000

And then there's the reciprocating action.

185

00:13:30,000 --> 00:13:32,000

The gun starts sweeping.

186

00:13:32,000 --> 00:13:34,000

And then it starts firing.

187

00:13:34,000 --> 00:13:41,000

And on their close-up, we can see a package that is a gearhead-driven car door opener.

188

00:13:41,000 --> 00:13:42,000

Right.

189

00:13:42,000 --> 00:13:46,000

Which I feel like properly levered, it could be a fantastic trigger pull.

190

00:13:46,000 --> 00:13:51,000

Yeah, well, so far I'm not seeing anything that seems to me like a deal breaker.

191

00:13:51,000 --> 00:13:52,000

Yeah.

192

00:13:52,000 --> 00:13:53,000

So divide and conquer.

193

00:13:53,000 --> 00:13:54,000

Divide and conquer.

194

00:13:54,000 --> 00:13:56,000

You want to work on the key fob and electronics,

195

00:13:56,000 --> 00:13:59,000

and I'll start getting the rig parts together?

196

00:13:59,000 --> 00:14:00,000

Okay.

197

00:14:02,000 --> 00:14:07,000

The guys start by looking high and low for all the key components.

198

00:14:07,000 --> 00:14:09,000

The chair.

199

00:14:09,000 --> 00:14:11,000

The garage door opener.

200

00:14:11,000 --> 00:14:14,000

This looks precisely like what we see in the show.

201

00:14:14,000 --> 00:14:16,000

The wrenches.

202

00:14:16,000 --> 00:14:18,000

And a trigger pull.

203

00:14:18,000 --> 00:14:20,000

This is a cool little device.

204

00:14:20,000 --> 00:14:23,000

It's meant for locking and unlocking the doors in your car.

205

00:14:23,000 --> 00:14:25,000

Oh, yeah.

206

00:14:27,000 --> 00:14:29,000

That would totally pull the trigger.

207

00:14:29,000 --> 00:14:33,000

And with that, Adam can commence his part of the build.

208

00:14:33,000 --> 00:14:36,000

That's how short it is.

209

00:14:36,000 --> 00:14:39,000

Walter's chair-based gun mount.

210

00:14:39,000 --> 00:14:41,000

Hey, hey, hey.

211

00:14:41,000 --> 00:14:45,000

Which involves connecting some conduit to an office chair.

212

00:14:45,000 --> 00:14:46,000

Yeah.

213

00:14:46,000 --> 00:14:49,000

Ah, you can't foil me.

214

00:14:49,000 --> 00:14:51,000

And that's it.

215

00:14:51,000 --> 00:14:55,000

That's pretty freaking cool.

216

00:14:55,000 --> 00:14:56,000

Dude.

217

00:14:56,000 --> 00:14:57,000

Dude.

218

00:14:57,000 --> 00:15:00,000

That looks fantastic.

219

00:15:00,000 --> 00:15:04,000

The garage door opener, however, is proving problematic.

220

00:15:07,000 --> 00:15:09,000

Oh.

221

00:15:09,000 --> 00:15:12,000

With the key fob failing to fire.

222

00:15:12,000 --> 00:15:15,000

That would say that that is on.

223

00:15:15,000 --> 00:15:20,000

Jamie delves deeper to unearth a complex safety system.

224

00:15:20,000 --> 00:15:23,000

This thing has switches that tell when the door is closed

225

00:15:23,000 --> 00:15:27,000

or when it's open and sensors so that you can't kill your cat

226

00:15:27,000 --> 00:15:29,000

or break your foot or whatever it is.

227

00:15:29,000 --> 00:15:31,000

We don't need any of that stuff.

228

00:15:31,000 --> 00:15:34,000

Jamie needs to bypass the safety switches.

229

00:15:34,000 --> 00:15:38,000

We just want power to go to the motor, period.

230

00:15:38,000 --> 00:15:43,000

So that the motor can be powered on and never automatically shut down.

231

00:15:43,000 --> 00:15:50,000

I've hot-wired cars before, but never hot-wired a garage door opener for a car.

232

00:15:50,000 --> 00:15:53,000

It may be a sophisticated circuit, but an hour later,

233

00:15:53,000 --> 00:15:56,000

and it ain't no match for the Heinemann.

234

00:15:56,000 --> 00:16:00,000

Very cool.

235

00:16:00,000 --> 00:16:05,000

With the door ring running, Adam next couples it to his gun mount,

236

00:16:05,000 --> 00:16:08,000

courtesy of the wrench pivot system.

237

00:16:13,000 --> 00:16:15,000

Let's try a test.

238

00:16:15,000 --> 00:16:17,000

Three, two, one.

239

00:16:17,000 --> 00:16:19,000

What?

240

00:16:20,000 --> 00:16:22,000

Okay, that was too fast.

241

00:16:22,000 --> 00:16:25,000

Just gonna go on and let him say that was too fast.

242

00:16:26,000 --> 00:16:28,000

I hit my first big snafu,

243

00:16:28,000 --> 00:16:32,000

and that is that the key component of sweeping this gun back and forth,

244

00:16:32,000 --> 00:16:35,000

the garage door opener spins way too fast.

245

00:16:35,000 --> 00:16:37,000

So I need to reduce its speed,

246

00:16:37,000 --> 00:16:39,000

and in keeping with Walt's clues together,

247

00:16:39,000 --> 00:16:42,000

whatever I can find in the local stores solution,

248

00:16:42,000 --> 00:16:45,000

still a few bugs to be worked out.

249

00:16:45,000 --> 00:16:50,000

I'm thinking I might use some bicycle parts to get me that gear reduction.

250

00:16:50,000 --> 00:16:53,000

For the first time, Adam's having to go off-script.

251

00:16:54,000 --> 00:16:56,000

Couple of welds. Here we go.

252

00:16:56,000 --> 00:17:01,000

And while this is not what Walt did, it is a fix he could have fabricated.

253

00:17:06,000 --> 00:17:09,000

This is a moment of truth. Three, two, one.

254

00:17:09,000 --> 00:17:11,000

Yeah.

255

00:17:11,000 --> 00:17:13,000

That's the kind of abuse it's gonna be under.

256

00:17:13,000 --> 00:17:16,000

With a turn speed that's way closer to Walter's,

257

00:17:16,000 --> 00:17:20,000

Adam's addition should let their rig fire on all cylinders.

258

00:17:23,000 --> 00:17:25,000

That's cool.

259

00:17:25,000 --> 00:17:28,000

Provided that Janie's trigger delivers.

260

00:17:30,000 --> 00:17:32,000

So how this works is,

261

00:17:32,000 --> 00:17:35,000

you know, you can't just hit the switch and it's like,

262

00:17:35,000 --> 00:17:38,000

these two of these trigger delivers.

263

00:17:38,000 --> 00:17:41,000

So how this works is that there are actually two of these,

264

00:17:41,000 --> 00:17:44,000

one on either side, and a pin that connects them.

265

00:17:44,000 --> 00:17:46,000

The pin goes across the trigger.

266

00:17:46,000 --> 00:17:48,000

And so when these actuate,

267

00:17:48,000 --> 00:17:51,000

they both push back and push on the trigger that way.

268

00:17:53,000 --> 00:17:55,000

Beauty.

269

00:17:55,000 --> 00:17:57,000

Well, we have a plan.

270

00:17:57,000 --> 00:17:59,000

It has not been an easy build,

271

00:17:59,000 --> 00:18:04,000

but we are finally at a stage when all the major components of Walt's build are here.

272

00:18:04,000 --> 00:18:07,000

The box end wrenches pivoting off a garage door opener.

273

00:18:07,000 --> 00:18:09,000

The gun on a chair swivel.

274

00:18:09,000 --> 00:18:12,000

Mounted to a piece of standard shallow conduit.

275

00:18:12,000 --> 00:18:15,000

I have added one thing, which is to get a 4-1 gear reduction,

276

00:18:15,000 --> 00:18:19,000

I've added a 10-speed cassette to the edge of the garage door opener.

277

00:18:19,000 --> 00:18:24,000

But again, all of this is stuff you could buy within a local town like Walt had to do.

278

00:18:24,000 --> 00:18:26,000

And check it out.

279

00:18:26,000 --> 00:18:28,000

It totally operates.

280

00:18:29,000 --> 00:18:37,000

It's hard to get excited when I find this one of the most terrifying machines we have ever built.

281

00:18:37,000 --> 00:18:40,000

Nonetheless, I'm pretty excited.

282

00:18:40,000 --> 00:18:42,000

Stop that.

283

00:18:48,000 --> 00:18:50,000

And blow it out of the water.

284

00:18:50,000 --> 00:18:53,000

Adam and Jamie's small-scale tests.

285

00:18:53,000 --> 00:18:55,000

Whoa!

286

00:18:56,000 --> 00:19:01,000

Showed that a mid-depth boom could lift a ship up and out.

287

00:19:01,000 --> 00:19:03,000

It's lifting it beautifully.

288

00:19:03,000 --> 00:19:07,000

But can they repeat this feat when they go large?

289

00:19:09,000 --> 00:19:14,000

When it comes to explosives on the water, there's not many places that open to us.

290

00:19:14,000 --> 00:19:18,000

But luckily, this quarry lake in Gold Country, Northern California,

291

00:19:18,000 --> 00:19:23,000

poetically named Pitt 232, is always open for us.

292

00:19:23,000 --> 00:19:29,000

And it's in Pitt 232 that we're going to put this boat along with a buttload of explosives

293

00:19:29,000 --> 00:19:32,000

and see if we can't blow it out of the water.

294

00:19:33,000 --> 00:19:35,000

That's a lot of steel.

295

00:19:37,000 --> 00:19:42,000

Now, while we've gone to great lengths to buy a really big boat made out of steel

296

00:19:42,000 --> 00:19:46,000

that is semi-close to the kind of military boat we're replicating,

297

00:19:46,000 --> 00:19:52,000

the Sherpите viewers among you might notice that military ships are almost never painted bright orange.

298

00:19:52,000 --> 00:19:54,000

We've used a lot of boats on the show.

299

00:19:54,000 --> 00:19:58,000

This might be both the biggest and the ugliest all at the same time.

300

00:19:58,000 --> 00:20:01,000

When that bomb goes off, a lot is going to get obscured

301

00:20:01,000 --> 00:20:06,000

and we want the best chance for seeing if our boat actually leaves the water

302

00:20:06,000 --> 00:20:10,000

and the orange might be the thing that helps us see that.

303

00:20:10,000 --> 00:20:16,000

Indeed, but before any boom, there are three Titanic tasks to tick off.

304

00:20:17,000 --> 00:20:22,000

First, the guys need to raise her up, something that's easier said than done.

305

00:20:22,000 --> 00:20:27,000

This whole thing is pretty finicky because if these guys don't get their rigging right,

306

00:20:27,000 --> 00:20:30,000

then the trailer could be damaged, the cradling could be damaged.

307

00:20:30,000 --> 00:20:34,000

It's not the ideal situation for loading a boat.

308

00:20:36,000 --> 00:20:37,000

We have lift off.

309

00:20:38,000 --> 00:20:41,000

Task two is to secure a centralized attachment point.

310

00:20:41,000 --> 00:20:43,000

Bang! Right here!

311

00:20:43,000 --> 00:20:48,000

From which their explosive will hang midway between the boat and the lake bed.

312

00:20:50,000 --> 00:20:53,000

Jamie is now welding the ring to the underside of the boat,

313

00:20:53,000 --> 00:20:56,000

but that's not the most amazing thing that's happening right now.

314

00:20:56,000 --> 00:20:58,000

He also gave me his beret to hold.

315

00:20:58,000 --> 00:21:01,000

Ah! It's like alive!

316

00:21:01,000 --> 00:21:03,000

And we get very careful.

317

00:21:06,000 --> 00:21:09,000

And the final task, as the sun sets,

318

00:21:09,000 --> 00:21:13,000

is to lower her into the lake.

319

00:21:13,000 --> 00:21:14,000

Awesome.

320

00:21:15,000 --> 00:21:17,000

And she's in.

321

00:21:25,000 --> 00:21:28,000

Walter White's ultimate tank down

322

00:21:30,000 --> 00:21:33,000

is a classic case of blowing it out of the water,

323

00:21:34,000 --> 00:21:36,000

but would his rig really have worked?

324

00:21:37,000 --> 00:21:41,000

To find out, Adam and Jamie have returned to the range,

325

00:21:41,000 --> 00:21:43,000

where they're back with a bang.

326

00:21:44,000 --> 00:21:46,000

The bandits have arrived.

327

00:21:46,000 --> 00:21:48,000

Run!

328

00:21:49,000 --> 00:21:54,000

Their first job is to remove the prop gun and replace it with the real deal.

329

00:21:55,000 --> 00:21:57,000

What can possibly go wrong?

330

00:21:59,000 --> 00:22:01,000

Next, they add a box for the bullets.

331

00:22:01,000 --> 00:22:03,000

I feel good about that.

332

00:22:03,000 --> 00:22:05,000

Before tethering it in the trunk.

333

00:22:07,000 --> 00:22:09,000

There we go. You through?

334

00:22:09,000 --> 00:22:10,000

Yep.

335

00:22:10,000 --> 00:22:14,000

That just leaves the battery, which Jamie wires in from the back seat.

336

00:22:16,000 --> 00:22:19,000

Alright, well, if everything is working correctly,

337

00:22:19,000 --> 00:22:22,000

this should turn on just like Waltz did with the key fob.

338

00:22:24,000 --> 00:22:25,000

Yeah!

339

00:22:27,000 --> 00:22:29,000

It's looking good.

340

00:22:29,000 --> 00:22:31,000

You want to give it a jiggle?

341

00:22:31,000 --> 00:22:33,000

Come on!

342

00:22:33,000 --> 00:22:35,000

That looks good, Jamie.

343

00:22:35,000 --> 00:22:36,000

Yeah.

344

00:22:36,000 --> 00:22:37,000

I like it.

345

00:22:37,000 --> 00:22:39,000

With the gun ready to go,

346

00:22:39,000 --> 00:22:42,000

the guys next need a drug den to aim it at.

347

00:22:43,000 --> 00:22:46,000

We're pretty much only interested in what happened to the front wall of the house

348

00:22:46,000 --> 00:22:48,000

in the Breaking Bad episode.

349

00:22:48,000 --> 00:22:51,000

Our information is that that wall was made of stucco,

350

00:22:51,000 --> 00:22:53,000

which is a concrete or mortar-like material,

351

00:22:53,000 --> 00:22:59,000

and we're replicating that on our wall with precast panels of a similar material.

352

00:22:59,000 --> 00:23:02,000

So when our bullets hit this wall,

353

00:23:02,000 --> 00:23:05,000

it should behave pretty much like what it did in the show.

354

00:23:10,000 --> 00:23:12,000

By replicating the house in the clip,

355

00:23:12,000 --> 00:23:16,000

the guys will see if Waltz's weapon can take down the drug lords through the wall,

356

00:23:17,000 --> 00:23:20,000

provided that it goes off without a hitch.

357

00:23:22,000 --> 00:23:26,000

To find out, Adam positions the car exactly as per the clip.

358

00:23:26,000 --> 00:23:27,000

What do you think?

359

00:23:27,000 --> 00:23:29,000

I like it, Jamie.

360

00:23:29,000 --> 00:23:31,000

But before letting rip for real,

361

00:23:31,000 --> 00:23:35,000

the guys want to do a proof of concept by firing blanks.

362

00:23:35,000 --> 00:23:37,000

I'm lovin' the weapon.

363

00:23:37,000 --> 00:23:39,000

120 off them.

364

00:23:39,000 --> 00:23:41,000

Safety's off, gun's hot.

365

00:23:41,000 --> 00:23:42,000

Mr. Heidman, you ready?

366

00:23:42,000 --> 00:23:43,000

I'm ready if you are.

367

00:23:43,000 --> 00:23:47,000

Okay, blank firing function test, Breaking Bad, Felida finale!

368

00:23:47,000 --> 00:23:49,000

Three, two, one.

369

00:23:53,000 --> 00:23:54,000

One shot.

370

00:23:54,000 --> 00:23:57,000

That test might not have looked like it went very well,

371

00:23:59,000 --> 00:24:02,000

but I'm smiling because it went beautifully.

372

00:24:02,000 --> 00:24:04,000

We are looking for problems.

373

00:24:04,000 --> 00:24:07,000

We are trying to solve them before they become deadly problems,

374

00:24:07,000 --> 00:24:09,000

and that is a problem.

375

00:24:10,000 --> 00:24:12,000

We ended up with what's called a stove pipe.

376

00:24:12,000 --> 00:24:15,000

That's where one of the ejecting shells does not eject all the way

377

00:24:15,000 --> 00:24:17,000

and gets caught in the returning slide.

378

00:24:17,000 --> 00:24:20,000

Jamie's gonna add some wire, hopefully, to fix it.

379

00:24:20,000 --> 00:24:22,000

It should be good to go in a couple minutes.

380

00:24:22,000 --> 00:24:23,000

All right.

381

00:24:23,000 --> 00:24:26,000

All right, with the problems potentially solved,

382

00:24:26,000 --> 00:24:28,000

three, two, one, go.

383

00:24:40,000 --> 00:24:42,000

Now that's more like it.

384

00:24:42,000 --> 00:24:45,000

With their gun finally firing at all cylinders,

385

00:24:45,000 --> 00:24:49,000

the guys are at last ready to take on this myth for real.

386

00:24:52,000 --> 00:24:56,000

To find out if you can ever blow a ship clean out of the water,

387

00:24:57,000 --> 00:25:00,000

Adam and Jamie have floated their boat.

388

00:25:00,000 --> 00:25:02,000

And she's in.

389

00:25:03,000 --> 00:25:06,000

Now they need to sink their depth charge.

390

00:25:06,000 --> 00:25:09,000

Oh, it doesn't really pinchy.

391

00:25:09,000 --> 00:25:10,000

A little pinchy.

392

00:25:10,000 --> 00:25:12,000

Ow, it's actually quite pinchy.

393

00:25:12,000 --> 00:25:14,000

This thing is normally a septic tank,

394

00:25:14,000 --> 00:25:16,000

but we're not gonna use it for that.

395

00:25:16,000 --> 00:25:18,000

There we go, that's it!

396

00:25:18,000 --> 00:25:19,000

Awesome.

397

00:25:19,000 --> 00:25:21,000

We're gonna fill it with explosives

398

00:25:21,000 --> 00:25:23,000

and hang it underneath our boat

399

00:25:23,000 --> 00:25:26,000

to see if we can blow that boat out of the water.

400

00:25:26,000 --> 00:25:28,000

Hey!

401

00:25:28,000 --> 00:25:32,000

That's the plan, but it's not just explosives that'll be inside.

402

00:25:32,000 --> 00:25:34,000

Sand!

403

00:25:35,000 --> 00:25:38,000

So we need this bulb to sink once it's full.

404

00:25:38,000 --> 00:25:41,000

And we've calculated that to do that,

405

00:25:41,000 --> 00:25:44,000

if we put 2,500 pounds of stuff in here,

406

00:25:44,000 --> 00:25:46,000

it's not gonna float.

407

00:25:46,000 --> 00:25:50,000

So, given that we intend to put 1,000 pounds of our explosive in here,

408

00:25:50,000 --> 00:25:54,000

we need 1,500 pounds of something else,

409

00:25:54,000 --> 00:25:56,000

so that's why we're using sand.

410

00:25:56,000 --> 00:25:58,000

Yeah, go ahead, get in, Captain Heineman.

411

00:25:58,000 --> 00:26:00,000

Which is gonna give us the correct amount

412

00:26:00,000 --> 00:26:03,000

if we put about 50 bags of sand in here

413

00:26:03,000 --> 00:26:05,000

before we put the explosives in.

414

00:26:05,000 --> 00:26:08,000

I like this thing, it's kinda cute, isn't it?

415

00:26:10,000 --> 00:26:12,000

Yeah, it's surprisingly stable.

416

00:26:12,000 --> 00:26:16,000

But before adding the explosives,

417

00:26:16,000 --> 00:26:19,000

first, it's anchors away.

418

00:26:19,000 --> 00:26:24,000

It's critical for our experiment that the boat stays exactly where we put it.

419

00:26:24,000 --> 00:26:28,000

So we are running into the reeds right now to set an anchor,

420

00:26:28,000 --> 00:26:31,000

and a line which will go all the way across the lake

421

00:26:31,000 --> 00:26:34,000

and anchor our boat precisely where we put it,

422

00:26:34,000 --> 00:26:36,000

so it doesn't move from there.

423

00:26:36,000 --> 00:26:39,000

It's like D-Day, except we're fighting reeds.

424

00:26:40,000 --> 00:26:44,000

Having the boat drift out of place could spell disaster.

425

00:26:44,000 --> 00:26:48,000

Yeah! That's it.

426

00:26:48,000 --> 00:26:52,000

So it's no surprise that Jamie is taking this job very seriously.

427

00:26:52,000 --> 00:26:54,000

Nice.

428

00:26:54,000 --> 00:26:57,000

Adam? Not so much.

429

00:26:58,000 --> 00:27:01,000

Alright, sir. What do you need?

430

00:27:01,000 --> 00:27:03,000

Seriously.

431

00:27:03,000 --> 00:27:05,000

I figured I'd get in the mood.

432

00:27:05,000 --> 00:27:08,000

Whatever.

433

00:27:08,000 --> 00:27:13,000

With the boat finally locked, there's only one ingredient left.

434

00:27:13,000 --> 00:27:16,000

Let's get the bomb.

435

00:27:16,000 --> 00:27:17,000

Let's do it.

436

00:27:17,000 --> 00:27:20,000

A thousand pounds of anfo.

437

00:27:20,000 --> 00:27:22,000

Well, there it is.

438

00:27:22,000 --> 00:27:27,000

That's just gonna go into our bomb and, uh, boom.

439

00:27:31,000 --> 00:27:33,000

At this point, some of you might be wondering

440

00:27:33,000 --> 00:27:37,000

why we're using anfo instead of something high explosive like C4.

441

00:27:37,000 --> 00:27:39,000

I'd say that's a pretty good fit.

442

00:27:39,000 --> 00:27:41,000

Well, there's actually a really good reason for that.

443

00:27:41,000 --> 00:27:42,000

It's a specific choice.

444

00:27:42,000 --> 00:27:45,000

It, in fact, is a slower speed explosive,

445

00:27:45,000 --> 00:27:47,000

and we want that push.

446

00:27:47,000 --> 00:27:49,000

See, slower explosives are used to push things.

447

00:27:49,000 --> 00:27:52,000

High explosives are used to crack them into pieces.

448

00:27:52,000 --> 00:27:54,000

We want the anfo to lift this boat,

449

00:27:54,000 --> 00:27:56,000

not C4 to slice it in half.

450

00:27:56,000 --> 00:28:01,000

By using anfo, the guys are giving this myth a helping hand.

451

00:28:01,000 --> 00:28:03,000

Let's go ahead and tie it in.

452

00:28:03,000 --> 00:28:05,000

But with a thousand pounds of it,

453

00:28:05,000 --> 00:28:09,000

a typical amount used in both mines and torpedoes

454

00:28:09,000 --> 00:28:12,000

be enough to lift the boat high and dry.

455

00:28:12,000 --> 00:28:16,000

Well, I think that ought to do it.

456

00:28:16,000 --> 00:28:18,000

We're sealed up.

457

00:28:19,000 --> 00:28:22,000

To find out, the team tows the bomb to the boat

458

00:28:22,000 --> 00:28:25,000

before sinking it to a depth of 30 feet,

459

00:28:25,000 --> 00:28:28,000

exactly midway between the bottom of the hull

460

00:28:28,000 --> 00:28:30,000

and the bottom of the lake.

461

00:28:30,000 --> 00:28:33,000

Then it's go time.

462

00:28:33,000 --> 00:28:35,000

For those of you playing our home game,

463

00:28:35,000 --> 00:28:37,000

I'd like to cover two distinct things.

464

00:28:37,000 --> 00:28:40,000

One, remember that our goal is not to blow up our boat,

465

00:28:40,000 --> 00:28:42,000

but to lift it out of the water.

466

00:28:45,000 --> 00:28:47,000

It's all ready to go.

467

00:28:47,000 --> 00:28:49,000

And two, I know this hat isn't regulation,

468

00:28:49,000 --> 00:28:52,000

but it's a lot more comfortable than a chapeau bra.

469

00:28:55,000 --> 00:28:57,000

All right, everyone, this is for real.

470

00:28:57,000 --> 00:28:59,000

Fire in the hole, fire in the hole.

471

00:28:59,000 --> 00:29:05,000

We're alternating the boat in five, four, three, two, one.

472

00:29:19,000 --> 00:29:21,000

Boy, that's anticlimactic.

473

00:29:30,000 --> 00:29:33,000

900 miles from Albuquerque,

474

00:29:37,000 --> 00:29:41,000

the guys have assembled all the Breaking Bad ingredients.

475

00:29:41,000 --> 00:29:47,000

That is the gun, the ammunition, the classic car,

476

00:29:47,000 --> 00:29:49,000

a wall made of all the same materials.

477

00:29:49,000 --> 00:29:50,000

It's a target.

478

00:29:50,000 --> 00:29:52,000

Oh, right, and one other thing.

479

00:29:52,000 --> 00:29:54,000

How about Vince Gilligan, the creator of Breaking Bad?

480

00:29:54,000 --> 00:29:56,000

Vince, you ready to see this thing go?

481

00:29:56,000 --> 00:29:59,000

Man, I am seriously ready to see this thing go.

482

00:29:59,000 --> 00:30:02,000

After giving Vince a glimpse of the trunk tripod...

483

00:30:05,000 --> 00:30:07,000

That is the real deal.

484

00:30:07,000 --> 00:30:09,000

This is completely awesome.

485

00:30:09,000 --> 00:30:11,000

And the drug den...

486

00:30:11,000 --> 00:30:13,000

You might be one Nazi shot,

487

00:30:13,000 --> 00:30:16,000

but other than that, it looks pretty true to life.

488

00:30:16,000 --> 00:30:18,000

He, for one, is confident.

489

00:30:18,000 --> 00:30:20,000

How do I think this is going to go

490

00:30:20,000 --> 00:30:22,000

compared to our Breaking Bad fictional version?

491

00:30:22,000 --> 00:30:24,000

We've already seen the version with the blanks go off,

492

00:30:24,000 --> 00:30:26,000

and that looked like a dead ringer for what we did

493

00:30:26,000 --> 00:30:28,000

back in Albuquerque.

494

00:30:28,000 --> 00:30:30,000

I think with the live ammo,

495

00:30:30,000 --> 00:30:33,000

Walter White is going to be vindicated.

496

00:30:33,000 --> 00:30:36,000

At least in technological terms, if not moral terms.

497

00:30:36,000 --> 00:30:38,000

I'm loading the weapon.

498

00:30:38,000 --> 00:30:41,000

Well, with 200 live rounds locked and loaded,

499

00:30:41,000 --> 00:30:43,000

it's time to find out.

500

00:30:43,000 --> 00:30:44,000

Weapon's hot.

501

00:30:49,000 --> 00:30:50,000

Vince, you ready?

502

00:30:50,000 --> 00:30:51,000

Jamie, you good?

503

00:30:51,000 --> 00:30:53,000

Let's see if this works.

504

00:30:53,000 --> 00:30:56,000

All right, this is Breaking Bad, Walt's booby trap finale.

505

00:30:56,000 --> 00:31:00,000

In three, two, one, go!

506

00:31:06,000 --> 00:31:08,000

Did you hear something?

507

00:31:08,000 --> 00:31:09,000

Here it go.

508

00:31:09,000 --> 00:31:10,000

Nope.

509

00:31:10,000 --> 00:31:12,000

Okay, starring it off.

510

00:31:17,000 --> 00:31:19,000

Well, we, uh...

511

00:31:19,000 --> 00:31:21,000

We're not even sure what exactly has gone wrong,

512

00:31:21,000 --> 00:31:23,000

but we're proceeding very, very carefully.

513

00:31:23,000 --> 00:31:27,000

We've got a hot, loaded machine gun in that trunk.

514

00:31:27,000 --> 00:31:29,000

But for some reason, it didn't fire.

515

00:31:29,000 --> 00:31:31,000

No, hold on a second.

516

00:31:31,000 --> 00:31:32,000

Hold on a second.

517

00:31:32,000 --> 00:31:35,000

Slowly, but surely.

518

00:31:35,000 --> 00:31:36,000

Okay, you ready?

519

00:31:36,000 --> 00:31:39,000

The guys remove a blockage in the barrel.

520

00:31:39,000 --> 00:31:41,000

Come on, baby.

521

00:31:41,000 --> 00:31:44,000

Gun is safe. The ammo's out.

522

00:31:44,000 --> 00:31:46,000

Before resetting for take two...

523

00:31:46,000 --> 00:31:47,000

All right.

524

00:31:47,000 --> 00:31:48,000

Ready to go again?

525

00:31:48,000 --> 00:31:50,000

I am ready.

526

00:31:51,000 --> 00:31:54,000

All right, Breaking Bad finale, Walt's booby trap.

527

00:31:54,000 --> 00:31:56,000

Final test, hopefully.

528

00:31:56,000 --> 00:32:02,000

Three, two, one, go!

529

00:32:07,000 --> 00:32:08,000

What the hell?

530

00:32:08,000 --> 00:32:09,000

Power off.

531

00:32:09,000 --> 00:32:10,000

Power's off.

532

00:32:13,000 --> 00:32:16,000

Man, the tension here is...

533

00:32:16,000 --> 00:32:18,000

is more than I would have thought it would be.

534

00:32:18,000 --> 00:32:21,000

Can I get one more host clip, a bigger one?

535

00:32:21,000 --> 00:32:23,000

And it makes me think, uh, in what kind of nerves

536

00:32:23,000 --> 00:32:25,000

what must Walt have been feeling,

537

00:32:25,000 --> 00:32:28,000

wondering whether or not that little key fob clicker of his

538

00:32:28,000 --> 00:32:30,000

was gonna make this thing fire or not.

539

00:32:30,000 --> 00:32:33,000

It makes you think.

540

00:32:33,000 --> 00:32:37,000

In the clip, Walt's fob seems to work first-time.

541

00:32:37,000 --> 00:32:42,000

But the guys are giving him and this myth one last chance.

542

00:32:43,000 --> 00:32:44,000

Vents are good.

543

00:32:44,000 --> 00:32:45,000

Third time's gonna be the charm.

544

00:32:45,000 --> 00:32:46,000

All right.

545

00:32:46,000 --> 00:32:47,000

Breaking Bad.

546

00:32:47,000 --> 00:32:49,000

Walt's booby trap.

547

00:32:49,000 --> 00:32:53,000

Test in three, two, one.

548

00:33:13,000 --> 00:33:15,000

Oh, yeah.

549

00:33:15,000 --> 00:33:16,000

Woo!

550

00:33:16,000 --> 00:33:17,000

That's the stuff.

551

00:33:17,000 --> 00:33:19,000

That was an adrenaline rush.

552

00:33:19,000 --> 00:33:21,000

That was awesome.

553

00:33:21,000 --> 00:33:22,000

Oh, my God.

554

00:33:22,000 --> 00:33:25,000

That went on longer than it did when we did it for the show.

555

00:33:30,000 --> 00:33:32,000

That...that...that...

556

00:33:32,000 --> 00:33:34,000

Our rig worked.

557

00:33:35,000 --> 00:33:37,000

It actually swept back and forth.

558

00:33:38,000 --> 00:33:41,000

After all of this work, the rig worked.

559

00:33:41,000 --> 00:33:44,000

I have to say, my hat is off.

560

00:33:44,000 --> 00:33:49,000

To Walt's for white for getting his to work on the first try.

561

00:33:51,000 --> 00:33:55,000

It took a while, but part one of the myth is back on track.

562

00:33:55,000 --> 00:33:57,000

Walt's rig worked.

563

00:33:57,000 --> 00:34:00,000

There is such a wide swath, man.

564

00:34:00,000 --> 00:34:02,000

But how's part two looking?

565

00:34:02,000 --> 00:34:04,000

That's really low.

566

00:34:04,000 --> 00:34:05,000

Look at that.

567

00:34:05,000 --> 00:34:06,000

Yeah.

568

00:34:06,000 --> 00:34:08,000

It's like seven feet off the ground.

569

00:34:08,000 --> 00:34:12,000

Did the bullets make it through the wall and into the enemy inside?

570

00:34:14,000 --> 00:34:16,000

Also, look, that's a tumbling bullet.

571

00:34:16,000 --> 00:34:18,000

That is an oblong bullet-shaped hole.

572

00:34:18,000 --> 00:34:21,000

This bullet didn't go through while spiraling.

573

00:34:21,000 --> 00:34:23,000

Let's see what's behind you.

574

00:34:23,000 --> 00:34:24,000

All right.

575

00:34:25,000 --> 00:34:26,000

Oh.

576

00:34:27,000 --> 00:34:28,000

Uh-oh.

577

00:34:28,000 --> 00:34:29,000

Dead dude.

578

00:34:32,000 --> 00:34:33,000

Dead dude.

579

00:34:35,000 --> 00:34:36,000

Dead dude.

580

00:34:38,000 --> 00:34:40,000

They're all dead.

581

00:34:41,000 --> 00:34:43,000

And Walt is okay.

582

00:34:47,000 --> 00:34:51,000

So the plan wasn't entirely crazy, I guess.

583

00:34:51,000 --> 00:34:52,000

Nope.

584

00:34:52,000 --> 00:34:53,000

What?

585

00:34:53,000 --> 00:34:54,000

Horror show.

586

00:34:54,000 --> 00:34:58,000

It's one thing to watch that gun work from behind the blast chamber.

587

00:34:58,000 --> 00:35:04,000

It's quite another to view the damage and the carnage after all the bullets have hit their mark.

588

00:35:04,000 --> 00:35:11,000

It is gubsmackingly disturbing how effective a booby trap Walt designed.

589

00:35:11,000 --> 00:35:15,000

And it is a testament to the show that all the damage we saw in Breaking Bad,

590

00:35:15,000 --> 00:35:19,000

we have been able to replicate in an actual experiment.

591

00:35:19,000 --> 00:35:20,000

I'm thrilled.

592

00:35:20,000 --> 00:35:28,000

The main thing that I see from this test is the fact that it wasn't a clean line across the building.

593

00:35:28,000 --> 00:35:34,000

Walt's plan to actually dive to the floor and be safe was really very risky

594

00:35:34,000 --> 00:35:36,000

because I'm seeing bullets that went down.

595

00:35:36,000 --> 00:35:42,000

The vibration in this thing is so massive that those bullets weren't just going in a straight line.

596

00:35:44,000 --> 00:35:50,000

Jamie's absolutely right when he says that Walt was taking a big, big risk to be lying on the ground when this thing went off.

597

00:35:50,000 --> 00:35:54,000

However, I would like to point out a couple of salient elements.

598

00:35:55,000 --> 00:35:59,000

He didn't really necessarily intend to survive this escapade.

599

00:35:59,000 --> 00:36:05,000

He knew he was dying of cancer and all that really mattered to him was taking out these Nazi sons of guns.

600

00:36:05,000 --> 00:36:08,000

And B, he did get shot in fact.

601

00:36:08,000 --> 00:36:13,000

Took one in the side, I think it was this side and of course that led to his demise.

602

00:36:18,000 --> 00:36:23,000

But I guess the only thing he end with is just to say that was amazing. That was really something.

603

00:36:25,000 --> 00:36:31,000

Vince, like Adam and Jamie, is thrilled at the result, but not a hundred percent.

604

00:36:31,000 --> 00:36:36,000

I gotta tell you, I'm elated because I rigged work, but you must be ecstatic.

605

00:36:36,000 --> 00:36:40,000

Yeah, yeah, I am ecstatic. You know, it's the little things that get you.

606

00:36:40,000 --> 00:36:47,000

I'm looking at the grouping of the rounds as they appear in the front of the building and I'm annoyed at myself

607

00:36:47,000 --> 00:36:53,000

because when it came to placing where the squibs would hit, I was out there with a drill gun

608

00:36:53,000 --> 00:36:57,000

and I'm thinking, yeah, I think a bullet would go here, I think one would go there.

609

00:36:57,000 --> 00:36:59,000

But you didn't think that they would group up at the end of their round.

610

00:36:59,000 --> 00:37:04,000

No, I missed that the rig has to stop and then double back, so there's a lot more grouping at the tail ends

611

00:37:04,000 --> 00:37:07,000

and I kind of missed that detail and I'm mad at myself.

612

00:37:07,000 --> 00:37:11,000

I appreciate your dedication to the correct physics.

613

00:37:11,000 --> 00:37:16,000

I am happy that I believe we can finally call a Breaking Bad Test plausible.

614

00:37:16,000 --> 00:37:22,000

Yeah, we finally got one. One out of three, that's not bad at all.

615

00:37:22,000 --> 00:37:24,000

It's good in baseball.

616

00:37:24,000 --> 00:37:29,000

Yep, it was unstable, volatile and dangerous.

617

00:37:29,000 --> 00:37:37,000

But given that the rig eventually worked and the bad guys were brought to justice, there's only one conclusion left to make.

618

00:37:37,000 --> 00:37:39,000

Plausible.

619

00:37:39,000 --> 00:37:41,000

Plausible.

620

00:37:41,000 --> 00:37:44,000

Plausible. Let's get out of here.

621

00:37:48,000 --> 00:37:50,000

Yes!

622

00:37:53,000 --> 00:37:58,000

Still to come. There's fire in the water hole.

623

00:38:06,000 --> 00:38:10,000

I know that some of you are probably thinking, what are you going to blow up a bomb in that lake?

624

00:38:10,000 --> 00:38:14,000

You're going to kill the fish and the frogs and stuff and that is totally reasonable to question.

625

00:38:14,000 --> 00:38:18,000

But let me explain that PIC 232 here is a quarry lake.

626

00:38:18,000 --> 00:38:23,000

As such, its pH level is slightly acidic, about 5.5.

627

00:38:23,000 --> 00:38:29,000

And because of that, even though you see the reeds around the edge, there are no living things within this lake.

628

00:38:29,000 --> 00:38:33,000

Nothing for us to kill. It's like perfect for blowing stuff up.

629

00:38:33,000 --> 00:38:35,000

What's up up?

630

00:38:43,000 --> 00:38:48,000

Underwater explosion in 3, 2, 1.

631

00:38:52,000 --> 00:38:55,000

Having failed to blow anything out of the water.

632

00:38:55,000 --> 00:38:57,000

Boy, that's anticlimactic.

633

00:38:57,000 --> 00:39:01,000

The guys have wired up a new detonation device that's good to go.

634

00:39:03,000 --> 00:39:05,000

Alright everybody.

635

00:39:08,000 --> 00:39:16,000

Blowing the boat out of the water for reels this time in 3, 2, 1. Go.

636

00:39:28,000 --> 00:39:30,000

That was astonishing.

637

00:39:33,000 --> 00:39:41,000

What a geyser.

638

00:39:41,000 --> 00:39:45,000

We did blow the boat out of the water but there is no more boat.

639

00:39:45,000 --> 00:39:50,000

I think technically what we did was we separated the boat into hundreds of little pieces which we

then blew out of the water.

640

00:39:50,000 --> 00:39:51,000

Yeah.

641

00:39:51,000 --> 00:39:52,000

That works.

642

00:39:52,000 --> 00:39:53,000

Okay.

643

00:40:04,000 --> 00:40:13,000

Well, our blast happened about 10 minutes ago and the surface of the water is still incredibly agitated.

644

00:40:13,000 --> 00:40:17,000

It's like the water is still reeling from what we did.

645

00:40:19,000 --> 00:40:25,000

Absolutely one of the most astonishing phenomena I have ever been lucky enough to witness.

646

00:40:25,000 --> 00:40:31,000

Unfortunately, we didn't blow the boat out of the water. We just blew the boat out of existence.

647

00:40:34,000 --> 00:40:41,000

The goal was to lift the intact boat up and out of the water. Something that clearly didn't happen.

648

00:40:41,000 --> 00:40:48,000

So was it a case of too much explosive or is there another explanation at hand?

649

00:40:48,000 --> 00:40:51,000

I figured what actually happened here was really quite simple.

650

00:40:51,000 --> 00:41:00,000

When the bomb went off it created a bubble of rapidly expanding gas which eventually made its way to the surface of the water where the boat was.

651

00:41:00,000 --> 00:41:08,000

Now that opened effectively a conduit through which all of that energy could flow where it can follow a path of least resistance.

652

00:41:08,000 --> 00:41:14,000

And that happened to be straight up right through the bottom of that boat and that's why it was so destructive.

653

00:41:14,000 --> 00:41:26,000

So the way I see it, unless the boat this is happening to is incredibly strong, there's no Goldilocks formula of amount and placement of explosive that is going to gently lift it out of the water.

654

00:41:26,000 --> 00:41:34,000

What's always going to happen is this literal upward facing cannon blast which is going to punch a hole and decimate the boat.

655

00:41:34,000 --> 00:41:39,000

And so as far as I'm concerned it's not looking good for the myth.

656

00:41:39,000 --> 00:41:48,000

Jamie's theory seems sound and the footage of a near vertical blast with very little debris flung to the side does back it up.

657

00:41:48,000 --> 00:41:52,000

So what's the verdict?

658

00:41:53,000 --> 00:41:55,000

How do you want to call this?

659

00:41:55,000 --> 00:41:57,000

Well it's busted, there's no boat left.

660

00:41:57,000 --> 00:42:04,000

There's no boat left. We gave it our best shot. The small scale seemed to lead us to believe that this would work but no, we blew it to smithereens. It's busted.

661

00:42:04,000 --> 00:42:06,000

Yeah, so what's next?

662

00:42:06,000 --> 00:42:10,000

Well usually at the end of one of these episodes we walk off into the sunset.

663

00:42:10,000 --> 00:42:11,000

Sun's already set.

664

00:42:11,000 --> 00:42:13,000

Yeah it has.