

1

00:00:00,000 --> 00:00:07,000

The South West Monsoon Structural Anchor.

2

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

It'll go on raining like this on and off for the next four weeks.

3

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

The South West Monsoon Structural Anchor.

4

00:00:20,000 --> 00:00:25,000

It'll go on raining like this on and off for the next four weeks.

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00:00:25,000 --> 00:00:29,000

Although that can cause chaos here, at least we're never short of water.

6

00:00:29,000 --> 00:00:36,000

But other places are desperately dry, and some people claim to solve that problem with a strange power.

7

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

Can people really find water with a divine rod?

8

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

This British colonel is convinced that dowsing works,

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00:00:42,000 --> 00:00:48,000

with just a forked twig he found water for a town of 10,000 people.

10

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

This American man is a very good man.

11

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

This American prospector dowses for oil.

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00:00:55,000 --> 00:01:00,000

This hat works right here.

13

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

And I can show you the proof.

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00:01:04,000 --> 00:01:10,000

It's good oil.

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00:01:10,000 --> 00:01:13,000

His oil wells have brought him millions of dollars.

16

00:01:13,000 --> 00:01:17,000

What secret lies in the diviner's hands?

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00:01:18,000 --> 00:01:21,000

Mistress from the files of Arthur C. Clarke,

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00:01:21,000 --> 00:01:23,000

scientist, writer and visionary,

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00:01:23,000 --> 00:01:28,000

the scientist who invented the communication satellite, the writer of 2010,

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00:01:28,000 --> 00:01:34,000

and now in retreat in Sri Lanka, the visionary who ponders the riddles of this and other worlds.

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00:01:47,000 --> 00:01:54,000

This is one part of Sri Lanka that the monsoon rains often miss,

22

00:01:54,000 --> 00:01:58,000

and that's the dry zone here in the southeast.

23

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

So this is a sort of place where you'll meet water diviners or dowsers

24

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

who claim to find underground water.

25

00:02:05,000 --> 00:02:09,000

And this is the place where you'll find water diviners or dowsers

26

00:02:09,000 --> 00:02:12,000

who claim to find underground water.

27

00:02:12,000 --> 00:02:15,000

This is a place where you'll meet water diviners or dowsers

28

00:02:15,000 --> 00:02:22,000

who claim to find underground water with nothing more than a bent twig.

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00:02:22,000 --> 00:02:27,000

Around the world, some dowsers claim not only to find water,

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00:02:27,000 --> 00:02:31,000

but also precious metals and even oil.

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00:02:31,000 --> 00:02:34,000

Maiden McDowell is a professional oil dowser.

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00:02:34,000 --> 00:02:37,000

In his Cadillac, he cruises the countryside of Illinois,

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00:02:37,000 --> 00:02:39,000

prospecting from the driving seat.

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00:02:39,000 --> 00:02:42,000

When the rod twitches, wife Marge has to steer.

35

00:02:42,000 --> 00:02:47,000

I have my wife most of the time to hold a wheel while I'm driving

36

00:02:47,000 --> 00:02:50,000

and give me a little scare once in a while.

37

00:02:50,000 --> 00:02:53,000

Just don't go too fast now.

38

00:02:53,000 --> 00:02:56,000

That's the way we do it.

39

00:02:56,000 --> 00:03:00,000

Yeah, it's working real good here.

40

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

Clayton claims dowsing rods should work for anyone.

41

00:03:04,000 --> 00:03:07,000

Most people they'll work for.

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00:03:07,000 --> 00:03:12,000

I got them from, said if they didn't work for you, you were dead.

43

00:03:12,000 --> 00:03:15,000

It still won't work for me.

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00:03:15,000 --> 00:03:19,000

It certainly seems to work for Clayton.

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00:03:19,000 --> 00:03:22,000

He claims 90% of the wells he dows is yield oil,

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00:03:22,000 --> 00:03:26,000

far above the success rate of his more conventional rivals.

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00:03:29,000 --> 00:03:33,000

The fields of Edwards County, Illinois are alive with his pumpjacks

48

00:03:33,000 --> 00:03:37,000

and oil companies clamor to hire him.

49

00:03:37,000 --> 00:03:41,000

I doused all these wells over here for maybe the oil company

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00:03:41,000 --> 00:03:47,000

and staked their locations for them.

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00:03:47,000 --> 00:03:52,000

One of Clayton's most spectacular finds was in the grounds of Edwards County High School.

52

00:03:52,000 --> 00:03:56,000

It's been running short of cash, Principal Bob Wallace.

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00:03:56,000 --> 00:03:58,000

Money is very short this year.

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00:03:58,000 --> 00:04:00,000

Programs have been cut.

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

A lot of our equipment has been used for more years than it actually should.

56

00:04:05,000 --> 00:04:08,000

We used to depreciate our books in five years,

57

00:04:08,000 --> 00:04:12,000

and now then we're going on more like a seven or eight year program.

58

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

Clayton offered to help out.

59

00:04:15,000 --> 00:04:20,000

He doused the school grounds and he soon struck Paydirt, right next to the playing fields.

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00:04:20,000 --> 00:04:26,000

They decided we had oil and he drilled this well and we got one.

61

00:04:27,000 --> 00:04:30,000

The school well is producing 110 barrels a day,

62

00:04:30,000 --> 00:04:33,000

and the school will get one-eighth of the revenue.

63

00:04:33,000 --> 00:04:38,000

We imagine about three or four hundred dollars a day,

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00:04:38,000 --> 00:04:43,000

and so you multiply that by 365, that's going to be a good piece of change.

65

00:04:43,000 --> 00:04:44,000

We love it.

66

00:04:44,000 --> 00:04:47,000

Dowsing is known locally as witching.

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00:04:47,000 --> 00:04:49,000

Headmasters are usually skeptical of such things.

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00:04:49,000 --> 00:04:55,000

As an academic, I feel it hard to believe that oil can be found by witching and all that.

69

00:04:55,000 --> 00:04:59,000

But it's been very successful, and with the money we're getting,

70

00:04:59,000 --> 00:05:02,000

it's going to make a hell of a difference in our school.

71

00:05:10,000 --> 00:05:12,000

Clayton's latest well is being brought in.

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00:05:12,000 --> 00:05:14,000

The drilling mud has been cleared with acid,

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00:05:14,000 --> 00:05:17,000

and the first oil is coming to the surface.

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00:05:17,000 --> 00:05:21,000

Clayton sinks more than 30 holes a year, all discovered by dowsing.

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00:05:21,000 --> 00:05:24,000

Almost all produce top quality oil.

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00:05:30,000 --> 00:05:34,000

Clayton's success has amazed conventional geologists like Paul Mullinachs.

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

The results speak for themselves.

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00:05:36,000 --> 00:05:42,000

He has a better success ratio than almost anyone that I know of in this area.

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00:05:42,000 --> 00:05:49,000

About 75% of all the wells he's drilled have been commercial producers.

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00:05:50,000 --> 00:05:53,000

Clayton's dowsing rod, which she calls his bug,

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00:05:53,000 --> 00:05:58,000

has brought him a stud full of fine trotting horses, a profitable sideline.

82

00:05:58,000 --> 00:06:01,000

I really make my money out of oil.

83

00:06:01,000 --> 00:06:08,000

And the reason I do is because I use this bug all the time to find the oil.

84

00:06:11,000 --> 00:06:17,000

In West Germany, the British Army of the Rhine has also benefited from a dowser's skills.

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00:06:17,000 --> 00:06:23,000

It's commanded from JHQ Rindalen, a town of 10,000 people near Munchen Gladbach.

86

00:06:27,000 --> 00:06:34,000

Construction of the base began in 1952, in charge was Colonel Harry Gratton of the Royal Engineers.

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00:06:35,000 --> 00:06:41,000

Colonel Gratton is now retired, but whenever he returns to the base he built,

88

00:06:41,000 --> 00:06:46,000

his first visit is to the scene of a personal triumph, the Army Water Works.

89

00:06:46,000 --> 00:06:47,000

Thank you.

90

00:06:50,000 --> 00:06:53,000

Hello, hello, hello, nice to meet you.

91

00:06:53,000 --> 00:06:55,000

Welcome in Rhindalen.

92

00:06:56,000 --> 00:06:59,000

Today the works provide all the headquarters needs,

93

00:06:59,000 --> 00:07:03,000

but water was a problem when Harry Gratton was planning the base.

94

00:07:03,000 --> 00:07:08,000

To supply Rhindalen's schools, offices, living quarters and barracks,

95

00:07:08,000 --> 00:07:12,000

he needed at least 700,000 gallons a day.

96

00:07:12,000 --> 00:07:15,000

Local German Water Works offered a supply,

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00:07:15,000 --> 00:07:20,000

but Gratton knew that the water was not enough to supply the base.

98

00:07:20,000 --> 00:07:24,000

Some of it was very hard, up to 36 degrees of hardness,

99

00:07:24,000 --> 00:07:30,000

and it wasn't the water which we cared for, either for drinking or shaving,

100

00:07:30,000 --> 00:07:33,000

or boilerhouses or pipes or anything.

101

00:07:33,000 --> 00:07:36,000

So the Colonel cut a divining rod.

102

00:07:36,000 --> 00:07:40,000

He already knew there was one small well of good water on the headquarters site.

103

00:07:40,000 --> 00:07:41,000

Something's dragging it down.

104

00:07:41,000 --> 00:07:43,000

But could he really do that?

105

00:07:43,000 --> 00:07:44,000

He could do it.

106

00:07:44,000 --> 00:07:45,000

He could do it.

107

00:07:45,000 --> 00:07:48,000

But he knew there was one small well of good water on the headquarters site.

108

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

Something's dragging it down.

109

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

But could he really find enough for an army?

110

00:07:54,000 --> 00:07:57,000

Naturally I'd consulted with a German geologist,

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00:07:57,000 --> 00:08:01,000

the land here, and what they thought about the prospect of water,

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00:08:01,000 --> 00:08:07,000

and they were reasonably impressed by the first findings

113

00:08:07,000 --> 00:08:10,000

that we made on the headquarters site itself,

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00:08:10,000 --> 00:08:17,000

but rather gloomy prognostication was that this was quite a small

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00:08:17,000 --> 00:08:20,000

and insignificant find,

116

00:08:20,000 --> 00:08:26,000

and that the line of the Schwarm Stream, which is this,

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00:08:26,000 --> 00:08:31,000

would be the western end of the water table.

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00:08:31,000 --> 00:08:35,000

However, I wasn't satisfied, so I came out here

119

00:08:35,000 --> 00:08:40,000

and doused it through these woods,

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00:08:40,000 --> 00:08:46,000

and I went across the field still finding water until it suddenly stopped.

121

00:08:46,000 --> 00:08:51,000

By now, Colonel Gratton was in the shadow of the German waterworks at Valteneer,

122

00:08:51,000 --> 00:08:56,000

so close that his dreams of an independent supply seemed impossible.

123

00:08:57,000 --> 00:09:04,000

But he still hoped there was a division between the two fields of water.

124

00:09:04,000 --> 00:09:07,000

To his gratification, he found there was.

125

00:09:07,000 --> 00:09:11,000

He pinpointed it by dousing from the German side.

126

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

There's a strong indication here which is from the field of water

127

00:09:17,000 --> 00:09:20,000

which supplies the Valteneer waterworks.

128

00:09:20,000 --> 00:09:24,000

For a long time I couldn't find the division,

129

00:09:25,000 --> 00:09:27,000

so I went on like this,

130

00:09:27,000 --> 00:09:32,000

and as you see now it's still going down on the...

131

00:09:32,000 --> 00:09:36,000

This is the Valteneer side, and...

132

00:09:40,000 --> 00:09:41,000

Oh.

133

00:09:43,000 --> 00:09:46,000

Yeah, it's not going down.

134

00:09:46,000 --> 00:09:48,000

Slack, quite slack.

135

00:09:48,000 --> 00:09:53,000

For a few paces here, there's absolutely no pull on the rod.

136

00:09:53,000 --> 00:09:55,000

It's quite slack.

137

00:09:55,000 --> 00:09:58,000

There's nothing here.

138

00:09:58,000 --> 00:10:04,000

And then if I go on, there it is.

139

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

Very strong pull.

140

00:10:06,000 --> 00:10:16,000

Now that's the beginning of the water bearing area which I had discovered.

141

00:10:16,000 --> 00:10:18,000

They did miss our patch.

142

00:10:18,000 --> 00:10:20,000

That's the extraordinary thing.

143

00:10:20,000 --> 00:10:23,000

They missed it by so little.

144

00:10:23,000 --> 00:10:29,000

As you see, their waterworks are right on the very edge of our area.

145

00:10:29,000 --> 00:10:36,000

Thirty years on, the vast Rheindalen Bay still relies on the secure and independent supply found by Harry Grappin.

146

00:10:36,000 --> 00:10:40,000

The savings on German water rates run into millions of pounds.

147

00:10:40,000 --> 00:10:44,000

There's enough for 10,000 people with plenty to spare.

148

00:10:44,000 --> 00:10:48,000

For Colonel Grappin, dousing has a simple explanation.

149

00:10:48,000 --> 00:10:56,000

It's called water divining, and there is in it an element of the divine.

150

00:10:56,000 --> 00:11:02,000

If you'd like to think of it like that, you are asking to find something,

151

00:11:02,000 --> 00:11:06,000

and some power gives you the power to find it.

152

00:11:06,000 --> 00:11:09,000

And that's how I prefer to believe it.

153

00:11:09,000 --> 00:11:18,000

There are more things in heaven and earth ratio than are dreamt of in our philosophy.

154

00:11:18,000 --> 00:11:23,000

Wait a minute, don't run, please. Come back. You know where we're going?

155

00:11:23,000 --> 00:11:26,000

Danville, Vermont.

156

00:11:26,000 --> 00:11:31,000

In this small American town, everyone learns the mysteries of divining from an early age.

157

00:11:31,000 --> 00:11:37,000

In the place that calls itself the dousing capital of the world, it's on the school curriculum.

158

00:11:38,000 --> 00:11:40,000

Everybody sit down.

159

00:11:41,000 --> 00:11:47,000

Okay, now, all you're doing with dousing rods is tuning in like a radio,

160

00:11:47,000 --> 00:11:51,000

and you're making yourself into a radio. It's very, very simple.

161

00:11:51,000 --> 00:11:58,000

When you are dousing, you're trying to tune your antenna to something that you don't know the answer to.

162

00:12:02,000 --> 00:12:05,000

Patrick is very good at finding water.

163

00:12:08,000 --> 00:12:14,000

Good. Very good.

164

00:12:16,000 --> 00:12:21,000

Danville's annual dousing convention brings people thousands of miles to brush up techniques

165

00:12:21,000 --> 00:12:24,000

and to check out the latest equipment.

166

00:12:24,000 --> 00:12:28,000

With this instrument, we can measure someone's aura.

167

00:12:28,000 --> 00:12:34,000

By coming in on a victim, where the aura comes out, it bends out.

168

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

She's putting out about eight inches of energy from her head at a time.

169

00:12:40,000 --> 00:12:45,000

The douses believe the village green is riddled with underground streams waiting to be detected.

170

00:12:45,000 --> 00:12:50,000

Oops. Now, we're over one right here. Now, let's restrain them out again.

171

00:12:50,000 --> 00:12:55,000

All right. You're over another one. Actually, those are beginning to work by.

172

00:12:55,000 --> 00:12:57,000

Thank you.

173

00:12:59,000 --> 00:13:05,000

Whether they use pendulums or rods, convention delegates believe they can find almost anything.

174

00:13:05,000 --> 00:13:08,000

I was laying flooring boards in the attic of our house.

175

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

I had driven probably a couple of thousand nails, put much flooring down,

176

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

and suddenly the phone lines were not working,

177

00:13:17,000 --> 00:13:20,000

and we guessed that we had driven a nail through the phone.

178

00:13:20,000 --> 00:13:25,000

But I started to check out each nail using a voltmeter,

179

00:13:25,000 --> 00:13:28,000

and I found that there were an awful lot of nails there,

180

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

so I went and got the dousing rods instead,

181

00:13:30,000 --> 00:13:34,000

and I narrowed it down to an area probably three foot square.

182

00:13:34,000 --> 00:13:37,000

So without telling my wife, I asked her to do it,

183

00:13:37,000 --> 00:13:40,000

and she confirmed that it was in the same three foot area,

184

00:13:40,000 --> 00:13:43,000

but she used a pendulum to go over all the nails in there,

185

00:13:43,000 --> 00:13:46,000

and she picked the nail, and we circled it with a pencil.

186

00:13:46,000 --> 00:13:50,000

I went and got the voltmeter, and touching the nail and ground,

187

00:13:50,000 --> 00:13:52,000

we had 60 volts on there.

188

00:13:52,000 --> 00:13:55,000

We pulled the nail and the phone system went back to normal.

189

00:13:58,000 --> 00:14:01,000

In the general store, shopping is made simple.

190

00:14:01,000 --> 00:14:03,000

You hold it, I'll do it.

191

00:14:03,000 --> 00:14:05,000

That looks good.

192

00:14:05,000 --> 00:14:07,000

OK.

193

00:14:07,000 --> 00:14:10,000

And the vets, of course, diagnosis by dosing.

194

00:14:10,000 --> 00:14:13,000

A lot of arthritis and of course, the C.

195

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

We've got a spot right back here.

196

00:14:16,000 --> 00:14:19,000

I start to get a bounce in the rod.

197

00:14:19,000 --> 00:14:22,000

Still, it's not strong enough to be concerned about.

198

00:14:22,000 --> 00:14:26,000

The methods and the instruments may vary,

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00:14:26,000 --> 00:14:30,000

but dousing is an ancient art.

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00:14:31,000 --> 00:14:34,000

In the 16th century, German Wunschelrutengangers,

201

00:14:34,000 --> 00:14:37,000

wishing rod walkers, hunted for underground minerals.

202

00:14:37,000 --> 00:14:42,000

Abbe Lombeer found water for the Cannes Country Club in the 1930s.

203

00:14:44,000 --> 00:14:49,000

In Oklahoma City, where oil flows from a well underneath the capital building itself,

204

00:14:49,000 --> 00:14:53,000

they still remember the name of wild-catter Ace Kutowski.

205

00:14:53,000 --> 00:14:56,000

In 1943, using a pendulum,

206

00:14:56,000 --> 00:15:00,000

Ace found Oklahoma's largest oil field at West Edmund.

207

00:15:00,000 --> 00:15:05,000

In Europe, Dr. Peter Treadwell helped find sites for Hoffman-La Roche pharmaceutical factories,

208

00:15:05,000 --> 00:15:08,000

like this one at Cicelm, Switzerland.

209

00:15:08,000 --> 00:15:13,000

Retired engineer Dennis Briggs doused church ruins at Ponteeland, Northumberland,

210

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

for archaeologists, and pinpointed Saxon remains.

211

00:15:21,000 --> 00:15:27,000

At Camp Pendleton, California, US Marines were given dousing detail during the Vietnam War.

212

00:15:27,000 --> 00:15:32,000

Their instructors claimed the rods would lead them to hidden Viet Cong guerrillas.

213

00:15:33,000 --> 00:15:39,000

Douses are so confident of their powers that they seldom bother to ask the fundamental question.

214

00:15:39,000 --> 00:15:43,000

Are they just lucky, or is there a scientific explanation?

215

00:15:43,000 --> 00:15:48,000

My friend the magician, James Randy, tried to find the answer.

216

00:15:48,000 --> 00:15:54,000

In 1980, he went to Australia to challenge the diviners of the Outback.

217

00:15:54,000 --> 00:15:59,000

\$50,000 were on offer to anyone who could unfailingly find water in the water.

218

00:15:59,000 --> 00:16:03,000

The Dazas were certain they'd scoop the prize.

219

00:16:03,000 --> 00:16:07,000

It would be the easiest days divining I've ever had if the money comes forward.

220

00:16:07,000 --> 00:16:09,000

First they looked for metal.

221

00:16:09,000 --> 00:16:13,000

Lumps of gold and brass were hidden in one of ten boxes.

222

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

The Dazas' task was to say which box contained the metal,

223

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

but in 61 tries, they found it only four times.

224

00:16:20,000 --> 00:16:24,000

The Dazas' task was to say which box contained the metal,

225

00:16:24,000 --> 00:16:27,000

but they found it only four times.

226

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

When the metal tests were over, the water was turned on.

227

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

11 Dazas paced the field.

228

00:16:37,000 --> 00:16:40,000

Hidden in the ground below were ten pipes.

229

00:16:40,000 --> 00:16:44,000

The Dazas had to detect which one the water was flowing through.

230

00:16:49,000 --> 00:16:53,000

By chance alone, they had to be right ten percent of the time,

231

00:16:53,000 --> 00:16:57,000

and by chance, the Dazas boasted they'd score at least 80% success.

232

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

At the end of the day, the diviners gathered to hear the water results

233

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

from scrutiny at the Reverend Ted Knoffs.

234

00:17:20,000 --> 00:17:25,000

In the total of 50 tries, there were only 11 successful attempts,

235

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

which was 22%.

236

00:17:28,000 --> 00:17:32,000

The total of everything, that is to say the brass, the gold,

237

00:17:32,000 --> 00:17:39,000

and the water, meant 111 tries were undertaken.

238

00:17:39,000 --> 00:17:43,000

There were a total of 15 successful,

239

00:17:43,000 --> 00:17:47,000

and that makes approximately a percentage of 12%.

240

00:17:47,000 --> 00:17:51,000

So the result was just a little over the 10%.

241

00:17:51,000 --> 00:17:56,000

It would seem to indicate that dousing as a force simply does not exist,

242

00:17:56,000 --> 00:18:01,000

except in the imagination and in wishful thinking of the people who tried.

243

00:18:01,000 --> 00:18:05,000

What do we to make of Randy's test for dousing?

244

00:18:05,000 --> 00:18:10,000

The experiment was well designed, but I don't quite agree with his conclusions.

245

00:18:10,000 --> 00:18:15,000

The test for water and the test for metal were entirely separate experiments.

246

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

He shouldn't have combined the results.

247

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

The Dazas were hopeless at finding metals.

248

00:18:21,000 --> 00:18:25,000

They'd have done much better if they'd merely guessed.

249

00:18:25,000 --> 00:18:28,000

But the results for water are rather impressive.

250

00:18:28,000 --> 00:18:33,000

By chance alone, the Dazas should have been right 10% of the time.

251

00:18:33,000 --> 00:18:36,000

Their actual score was 22%.

252

00:18:36,000 --> 00:18:40,000

The odds are 100 to 1 against that happening by chance.

253

00:18:40,000 --> 00:18:44,000

So the Dazas were quite good at locating water.

254

00:18:44,000 --> 00:18:47,000

They weren't as infallible as they claimed to be,

255

00:18:47,000 --> 00:18:50,000

but they were distinctly better than Randy admits.

256

00:18:50,000 --> 00:18:56,000

I'd be able to find only one experiment that suggests how dousing may actually work.

257

00:18:59,000 --> 00:19:02,000

On the campus of Utah State University at Logan,

258

00:19:02,000 --> 00:19:08,000

Professor Dwayne Chadwick is preparing the ground for the latest in a series of dousing tests.

259

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

He hopes to establish a connection between dousing reactions in the Earth's magnetic field,

260

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

using student volunteers hijacked on their way to classes.

261

00:19:23,000 --> 00:19:28,000

Before the test begins, Chadwick measures the magnetic field every foot along the path.

262

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

Then he buries a piece of wire coat hanger in the snow,

263

00:19:32,000 --> 00:19:34,000

which will cause a distinct change,

264

00:19:34,000 --> 00:19:37,000

a distortion in the Earth's magnetic field.

265

00:19:37,000 --> 00:19:39,000

Really hard.

266

00:19:47,000 --> 00:19:53,000

The tests are designed to discover whether Dazas can detect changes in the Earth's magnetic field,

267

00:19:53,000 --> 00:19:55,000

like the one caused by the coat hanger.

268

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

Any movement of the rods, a dousing reaction,

269

00:20:01,000 --> 00:20:03,000

is carefully recorded.

270

00:20:03,000 --> 00:20:06,000

Chadwick got the idea from a local newspaper story.

271

00:20:06,000 --> 00:20:09,000

I saw something that made me really wonder.

272

00:20:09,000 --> 00:20:13,000

Two boys fell through the ice on the Snake River and were drowned.

273

00:20:13,000 --> 00:20:16,000

The search party couldn't find them,

274

00:20:16,000 --> 00:20:21,000

and a douser came along and located them after the search party had given up.

275

00:20:21,000 --> 00:20:27,000

That got me thinking, there must be some scientific basis on which that might work,

276

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

because here's a whole river of water, obviously it wasn't the water.

277

00:20:30,000 --> 00:20:37,000

And I postulated that the skates would distort the Earth's magnetic field.

278

00:20:37,000 --> 00:20:40,000

Underground water also causes such distortions.

279

00:20:40,000 --> 00:20:42,000

Perhaps doublers can tune into them.

280

00:20:42,000 --> 00:20:47,000

This might explain the basis of dousing, but why should the rods twitch?

281

00:20:47,000 --> 00:20:50,000

I postulated again that here we have the human body,

282

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

which is really a conductor of electricity.

283

00:20:53,000 --> 00:21:01,000

And as you cut the magnetic field, this causes micro-voltages to be induced into the tissues, the muscles.

284

00:21:01,000 --> 00:21:05,000

That shortens the muscle, it causes a slight misalignment of the hands,

285

00:21:05,000 --> 00:21:09,000

subconsciously, not consciously, then causes a dousing response.

286

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

In a previous test, students doused a 60-foot-long path.

287

00:21:13,000 --> 00:21:19,000

Unknown to them, Chadwick had buried a piece of wire coat hanger to spot 26 feet along it.

288

00:21:19,000 --> 00:21:24,000

The dousing reactions were grouped in bunches, especially over the wire.

289

00:21:24,000 --> 00:21:29,000

23 out of 25 people got a reaction within three feet of that spot.

290

00:21:29,000 --> 00:21:37,000

And statistically, of course, you could break the bank at Monte Carlo with those kind of odds.

291

00:21:37,000 --> 00:21:42,000

And we did show that they tended to get reactions where the magnetic field is changing.

292

00:21:42,000 --> 00:21:46,000

The magnetic field is changing most where the graph is steepest,

293

00:21:46,000 --> 00:21:49,000

and that's where the dousing reactions are bunched.

294

00:21:49,000 --> 00:21:58,000

Based on our statistical evidence, I think there is a possibility that this is the mechanism by which the dousing reaction occurs.

295

00:21:58,000 --> 00:22:04,000

In Carmel Valley, California, the telephone company has a douser on call.

296

00:22:04,000 --> 00:22:08,000

Just turned off Highway 1, I'm eastbound on Carmel Valley Road.

297

00:22:08,000 --> 00:22:11,000

WIC show up the other side of the road.

298

00:22:11,000 --> 00:22:14,000

Highway 1, I'm eastbound on Carmel Valley Road.

299

00:22:14,000 --> 00:22:21,000

We got control of the old Dunnaway Ranch, a buried service wire and an interground wire, seems to go bad.

300

00:22:21,000 --> 00:22:24,000

Is that that one right by mid-valley?

301

00:22:24,000 --> 00:22:27,000

That's the one. Can you go out there and locate the interground facilities?

302

00:22:27,000 --> 00:22:30,000

Engineer Tom Harmon had trouble convincing his boss.

303

00:22:30,000 --> 00:22:36,000

When I first heard that Tom could find lines using copper rods, I just sort of laughed and chuckled him and said,

304

00:22:36,000 --> 00:22:43,000

I'm not sure until he had me do it and taught me how to do it, and then you just have to believe it.

305

00:22:43,000 --> 00:22:49,000

We encourage all of our employees to either learn it and not laugh about it, but try to use it.

306

00:22:49,000 --> 00:22:53,000

Tom's job is to find and fix faulty telephone lines.

307

00:22:53,000 --> 00:22:57,000

He's sure that this one will present no problems.

308

00:22:58,000 --> 00:23:01,000

Right here. I think we'll take right here. Looks like it.

309

00:23:01,000 --> 00:23:04,000

Don't refuse to choose yourself.

310

00:23:12,000 --> 00:23:19,000

But several hours later, there's no sign of the cable despite energetic excavations and the insistent swing of the dowsing rods.

311

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

That shows right where it should be.

312

00:23:28,000 --> 00:23:32,000

He tries another spot, but they're still in a real hole.

313

00:23:32,000 --> 00:23:35,000

Kind of embarrassing, you know, to not find it.

314

00:23:39,000 --> 00:23:44,000

As the shadows lengthen over Carmel Valley, he still can't find the wire.

315

00:23:44,000 --> 00:23:48,000

Next morning, Pacific Bell sent in high technology help.

316

00:23:51,000 --> 00:23:54,000

It does the job in minutes.

317

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

Well, I found what I was digging for.

318

00:23:57,000 --> 00:23:58,000

Yeah.

319

00:23:58,000 --> 00:23:59,000

Is it out there?

320

00:23:59,000 --> 00:24:01,000

It's out here, Tommy.

321

00:24:01,000 --> 00:24:04,000

Well, I must have picked up this water line and this sewer line.

322

00:24:04,000 --> 00:24:06,000

What do you think, Mike?

323

00:24:06,000 --> 00:24:09,000

Yeah, it's right there.

324

00:24:09,000 --> 00:24:12,000

Well, let's dig it up there.

325

00:24:18,000 --> 00:24:20,000

I found it.

326

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

There it is.

327

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

Boy, that sure was deep.

328

00:24:32,000 --> 00:24:38,000

He was been wrong before and it won't be this last time probably, but most of the time we'll find the wire with the dowsing.

329

00:24:38,000 --> 00:24:42,000

I still believe that dowsing works and I've been doing it a lot of years and I'm going to keep it up.

330

00:24:42,000 --> 00:24:56,000

I believe that dowsers, like racing tipsters, remember their successes and conveniently forget their failures.

331

00:24:56,000 --> 00:25:00,000

All the same, I think that there may be something to dowsing.

332

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

Biologists know that some animals can detect water even when there's no visible trace of it.

333

00:25:06,000 --> 00:25:14,000

Perhaps a few people share this ability as a primitive survival from a time when it could have been a matter of life and death.

334

00:25:14,000 --> 00:25:19,000

So I'd like to see Randy's experiment repeated on a larger scale.

335

00:25:19,000 --> 00:25:26,000

It could be important to learn whether dowsing is superstition or genuine science.

336

00:25:37,000 --> 00:25:40,000

H modulus

337

00:25:47,000 --> 00:25:53,000

skateboard

338

00:25:59,000 --> 00:26:01,000

Next week,

339

00:26:01,000 --> 00:26:03,000

Walking on fire.