



Bonnie Sahy  
 Wally  
 Jim Libby  
 Kathy Libby  
 Lani A. Comp

~~John~~  
 Lee Beck  
 Amy Silverthorn  
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 Mark Constable

Robert C. Cays

John Fish  
 Kathryn P. Flanagan  
 Michelle Greig

Robert A. Schutte

Jill Bright  
 Craig Albright

Karen Hummich

## 1992 TREASURE HUNT COMMITTEE

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- \* Bonnie Fahy

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## THE 42ND ANNUAL IEEE TREASURE HUNT

1992 marks the 42nd year of the IEEE Treasure Hunt in the Valley. The prizes awarded the winners over the years have had little monetary value, yet the competition for first place has become keener each year. The excitement has grown, and the red hunting caps awarded Treasure Hunt winners have become the prized possessions in many a trophy cabinet. Wearing this red crown of victory accords winners the privilege (and responsibility) of serving a three-year term on the Treasure Hunt Committee - trying to stump their cohorts.

Beginning in 1970, all two-time winners with six years of committee service, or one-time winners who have had less than three years of respite from committee service, have been offered the opportunity to declare their car "professional". This must be done upon application for tickets to the hunt.

In 1981, the 1970 resolution was amended to limit those teams who wish to declare themselves "professional" to those who have three or more members qualifying as exempt from committee service under the 1970 resolution.

Because of experience gained since 1970 in administering the 1970 "pro" resolution, the committee has made the following interpretation of the resolution: (This is being done to define in detail how the resolution should be administered and to avoid confusing situations which have occurred or might occur.)

A professional team agrees not to compete against amateur teams in the hunt. First, second, and third place prizes will be awarded to the three amateur teams with the lowest times per clue. If a professional team has the lowest time per clue for the hunt, the accomplishment will be announced, and the team members which qualify the team for "pro" status will be awarded "PRO" buttons to be affixed to their previously won red hats. In addition, this team will be admitted to the new "Pro-Button Winners" section of the Hall of Fame. Other pro teams which have times per clue lower than the third place winners will be announced for their respectable showing. Pro teams which ran near the end of the pack will also be announced in order to give encouragement to the novice first year teams which have participated. Beginning in 1985, the novice team with the best time has also been officially recognized and encouraged to keep up the good work.

Of course, eligible hunters who chose not to be declared "professional" for the hunt will compete and be eligible for first, second, or third place. Also, if this choice is made and the team helps bring up the rear, they will be left alone to hide at their dark corner table behind their beer pitchers where they need not fear the announcement of their boondoggle.

Through the years, many couples who are not IEEE members have served on the committee. They have contributed significantly in making the Treasure Hunt the success that it has been over the past 40 years. Because of this, non-member couples who have served on the committee are given the same status as member couples when ticket preference is given. Of course, non-member ticket prices must still be paid by these couples.

IEEE TREASURE HUNT  
-----HALL OF FAME-----

WINNER (MINUTES/CLUE)

1951 (27.4)

1. Frank, Estes, Lyman
2. Greer
3. Olson, Chambers, Wunderlich

1952 (23.8)

1. Hartman, Kemmeries, Pennington
2. Greer
3. Gundry

1953 (31.8)

1. Sokoloff, Diven, Drete
2. McClanathan
3. Blackert

1954 (23.5)

1. Chambers, Myer
2. Samuelson, Andren, Seibert
- 3.

1955 (17.6)

1. Hume, Estes, Lahti
2. Norde, Yost, Goodman
3. Ferguson, Eberhard, Drete

1956 (25.8)

1. Brown, Hershey, Richman
2. Samuelson, Lyman, Barton
3. Reddoch, Bettis, Martin

1957 (20.1)

1. Samuelson, Andrew, Barton, Weems
2. Estes, Diven, Livingwood
3. Creighton, Welch, Reeves

1958 (16.2)

1. Lindsay, Baum, Bettis
2. Hershey, Groth, Moore
3. Edson, Valenti, Ross, Wittenburg

1959 ()

1. Bettis, Lindsay, Martin
- 2.
- 3.

1960 (11.6)

1. Hinsdale, Lange, Porter
2. Kouns, Peterson, Stites
3. Corby, Peterson, Roe

1961 (17.9)

1. Cook, Gabrielson, Jones
2. Cooper, Cranston, Clouse
3. Yost, Goodman, Norde

1962 (12.2)

1. Samuelson, Welch, Kelly
2. Graham, Peterson, LaPrade
3. Groth, Knoob, Grimaila

1963 (16.2)

1. Michel, Barto, Solem
2. Knoob, Groth, Sanneman
3. Yost, Norde, Goodman

1964 (17.38)

1. Kneale, Walker, Glass
2. Knoob, Groth, Sanneman
3. Bremmer, Mayes, Lenas

1965 (16.0)

1. Goodman, Corby, Yost
2. Graham, Bettis, Peterson
3. Sanneman, Groth, Knoob

1966 (12.0)

1. Bettis, Peterson, Graham
2. Schaffner, Zusman, Voorhaar
3. Creede, Cadell, Elbinger

1967 (13.1)

1. Peterson, Rupprecht, Moberly
2. Ford, Wagner, Bensted
3. Porter, Lange, Attwood

1968 (16.6)

1. McBiles, Thomas, Hall
2. Samson, Haentze, Whittaker
3. Diven, Koch, Schwartz

1969 (19.8)

1. Yost, Corby, Eberhard
2. Armstrong, Woodward, Crowell
3. Sanneman, Groth, Knoob

1970 (17.3)

1. Greenburg, McKeown, Takesuye
2. Kline, Post, Knudsen
3. Yost, Corby, Eberhard

IEEE TREASURE HUNT  
-----HALL OF FAME-----

WINNER (MINUTES/CLUE)

1971 (15.65)

1. Crawford, Olson, Prigge
2. Moberly, Peterson, Rupprecht
3. Haentze, Samson, Whittaker

1972 (19.79)

1. Clouse, Larson, Sprik
2. Bensted, Ford, Wagner
3. Bickley, McArtor, Windett

1973 (22.6)

1. Bickley, McArtor, Windett
2. Bliss, Chruma, Caldwell
3. Rugen, Baehr, Bjornholt

1974 (23.5)

1. Bliss, Chruma, Fullerton
2. Haentze, Samson, Whittaker
3. Hochgraef, Kulvinskas, Zveglich

1975 (24.29)

1. Henry, Tatom, Lipinski, Graham
2. Boyd, Gaines, Schaeffer
3. Fitting, Ponce de Leon, Warble

1976 (21.56)

1. Fajen, Kasprzyk, Kozlik
2. Samson, Whittaker, Haentze
3. Rugen, Bjornholt, Flaherty

1977 (18.49)

1. Bjornholt, Flaherty, Rugen
2. Andrews, Evans, Semon
3. Haentze, Samson, Whittaker

1978 (24.75)

1. Hall, John, Weigel
2. Armstrong, Crowell, Woodward
3. Robinson, Eslinger, Youseffi

1979 (20.51)

1. Oney, Furedy, Porterfield, Livingston
2. Hochgraef, Zveglich, Kulvinskas
3. Crowell, Woodward, Armstrong

1980 (24.65)

1. Hochgraef, Zveglich, Kulvinskas
2. Richmond, Somers, Gulseth
3. Crowell, Armstrong, Woodward

1981 (18.22)

1. Nalette, DeFrancesco, Sewell
2. Gulseth, Somers, Richmond
3. Brenner, Wunderlich, Kaasik

1982 (18.13)

1. Crawford, Olson, Prigge
2. Gulseth, Richmond, Somers
3. Armstrong, Crowell, Gourley, Woodward

1983 (17.84)

1. Bradshaw, Cutler, Wells
2. Anderson, Hallen, Richmond
3. Knappenberger, Nelson, Shaner

1984 (22.99)

1. Bliss, Chruma, Fullerton
2. Berghammer, Fah, McGlinchey
3. Eymann, Osman, Rendek

1985 (19.10)

1. Blair, Knott, Wibergh
2. John, Presley, Hall
3. Rugen, Bjornholt, Belanger

1986 (20.16)

1. Carlton, Coffeen, Golis, Jacobsen, Moller, Rahrig
2. Amdahl, Williamson, Zabrowski
3. Bibby, Perkins, Stevens

1987 (19.38)

1. Hall, John, Presley
2. Dillon, Donaldson, Greeson, McGlinchy, Perillo
3. Clark, Gieske, O'Bannon

1988 (15.27)

1. Eymann, Osman, Rendek, Carleton
2. Belanger, Bjornholt, Rugen
3. Constable, Filreis, Flanigan, Hunnicutt, Prejs, Schukai

1989 (19.05)

1. Constable, Filreis, Flanigan, Hunnicutt, Prejs, Schukai
2. Frost, Hulet, Slick, Barry
3. Gulseth, Somers, Todd

1990 (13.52)

1. Silverthorn, Fahy, Comp
2. Davis, Coon, Holm, Suppes
3. Nelson, Knappenberger, Dalton

IEEE TREASURE HUNT  
-----HALL OF FAME-----

WINNER (MINUTES/CLUE)

1991 (17.22)

1. Albright, Black, Libby
2. Gilbert, Schaefer, Tucker, Katzdorn
3. Zabrowski, Williamson, Amdahl

IEEE TREASURE HUNT  
----HALL OF FAME----

PRO BUTTON WINNER (MINUTES/CLUE)

These buttons are awarded to PRO TEAMS which succeed in having the lowest times per clue for a hunt.

1972 (19.64)

Moberly, Peterson, Rupprecht

1973 (20.82)

Bettis, Graham, Peterson

1975 (23.71)

Crawford, Olson, Prigge

1978 (22.96)

Bettis, Graham, Peterson

1979 (20.47)

Windett, McArtor, Bickley

1987 (17.28)

DeFrancesco, Nalette, Sewell

1991 (13.60)

Carlton, Coffeen, Moller, Jacobsen, Rahrig, Cline

42nd (count 'em) Annual  
I.E.E.E. Treasure Hunt  
Hints Wise and Otherwise

1. Tails of Brave Ulysses
2. DIVERS do it DEEPER
3.  $C_i = 2( \sqrt{(x_i + 1)q} - \sqrt{(N_i - x_i)p} )$  when  $p_i < \bar{p}$ . (Probably).
4. "Don't cry for me \_\_\_\_\_," she evaded.
5. The brightest part of the disguise is produced by the sequins.
6. Revolutionary lantern code
7. For sheer ecstasy, bring a pair of scissors.
8. "It's not just a myth," he said hoarsely.
9. Develop your interests on Hunt Night.
10. I would buy nary an item but white paper while in line.
11.  $P_1V_1 = P_2V_2$  (or is it PV Herman?)
12. The end of an ERA
13. She: "We must, we must, we must..."  
He: "You said more than a mouthful."
14. EXTRA! EXTRA! Conquistador drags away Inca, hauls off Montezuma
15. It is an ancient Mariner,  
and he stoppeth one of three.  
"By thy long \_\_\_\_\_ and thy glittering eye,  
Now wherefore stopp'st thou me?"
16. You load sixteen hints, what do you get?  
Another year later it'll be a good bet.
17. *On the wall.*
18. The Summer of Forty-two at IMAX
19. Presidential candidates needed to keep an eye on Saddam.
20. See Hunt Rule 12f.



**THIS IS CLUE A. SOLVING THIS CLUE WILL LEAD YOU TO CLUE B.**

**H I J  
K  
L  
M  
N  
O**

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE B, OPEN  
EMERGENCY ENVELOPE 23, WHICH WILL DIRECT YOU TO CLUE B.**

---

**THIS IS EMERGENCY SOLUTION 23, WHICH WILL DIRECT YOU TO CLUE B.**

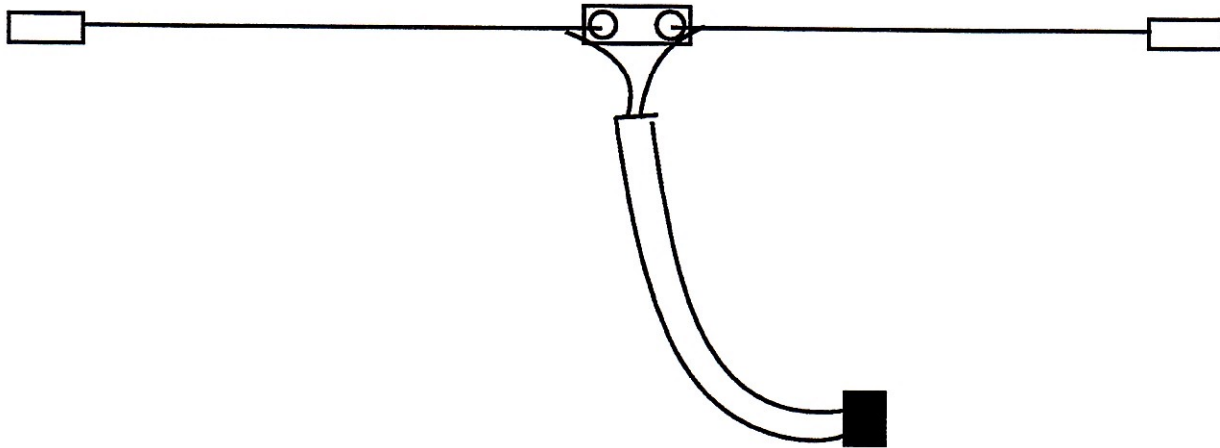
These are the falling letters H to O, or falling H<sub>2</sub>O. It's a waterfall, of course! To find the cluesite, float over to Circle 48 located at Niagara Wash and Victoria Rd.

Circle 48 is located near the intersection of Cave Creek and School House Roads. From the intersection, proceed north on School House Road for 0.75 miles to a pump station on the north side of a wash. The Clue is located 40' east of the northeast corner of the pump station (or 150' from the road), under a Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE B, OPEN EMERGENCY SOLUTION  
ENVELOPE 6, WHICH WILL DIRECT YOU TO CLUE C.**

**THIS IS CLUE B. SOLVING THIS CLUE WILL LEAD YOU TO CLUE C.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE C, OPEN EMERGENCY ENVELOPE 6, WHICH WILL DIRECT YOU TO CLUE C.**

---

**THIS IS EMERGENCY SOLUTION 6, WHICH WILL DIRECT YOU TO CLUE C.**

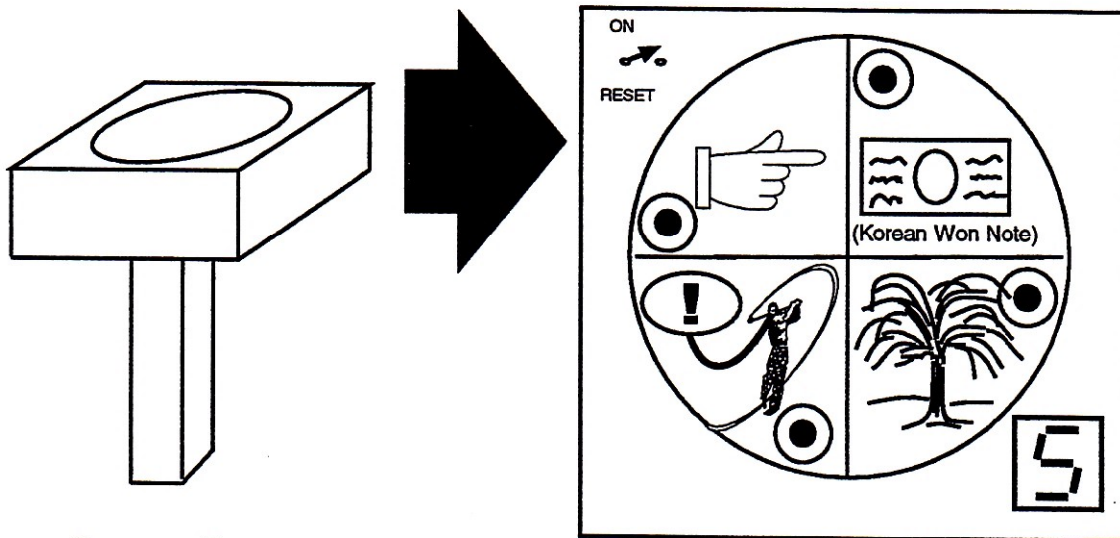
All you sparkies out there should recognize this as a dipole (or two pole) antenna. To find two Poles on the map, head over to Circle 37 at Walesa St and Pope John Paul II Way.

Circle 37 is located near the intersection of Carefree Highway and 12th Street. From the intersection, proceed south on 12th Street for 0.2 miles. The Clue is located 200' east of 12th Street under a large Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE C, OPEN EMERGENCY SOLUTION ENVELOPE 18, WHICH WILL DIRECT YOU TO CLUE D.**

**THIS IS CLUE C. SOLVING THIS CLUE WILL LEAD YOU TO CLUE D.**

This clue is a visual clue consisting of the following:



Box on Post

Pie in 4 sections with a pushbutton in each section.

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE D, OPEN EMERGENCY ENVELOPE 18, WHICH WILL DIRECT YOU TO CLUE D.**

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**THIS IS EMERGENCY SOLUTION 18, WHICH WILL DIRECT YOU TO CLUE D.**

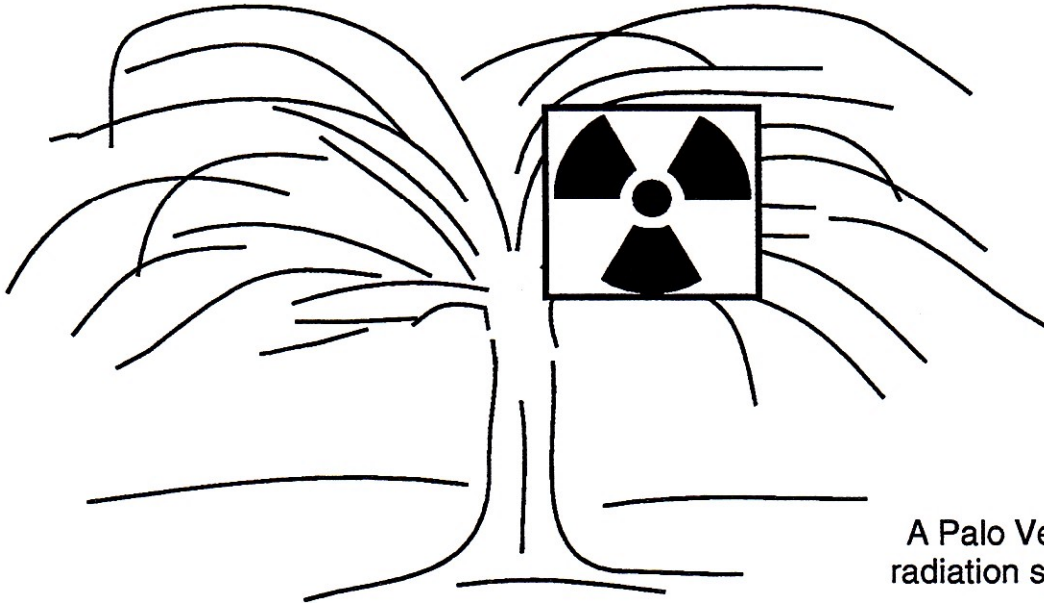
By holding the switch to the ON position and sequentially pressing the four buttons in the correct order, a number lights up in the corner of the box. And just what is the correct order? The pictures on the four pie sections provide the solution. You just need to figure out what a pointing hand, a Korean "won" bank note, a yelling golfer, and a tree have to do with a pie. The answer is "tree point won fore! ( $\pi = 3.14$ ). Pressing the numbers in that sequence causes a number 5 to appear in the corner of the box, so plod on over to Circle 5.

Circle 5 is located near the intersection of 24th Street and Joy Ranch Rd. From the intersection, proceed east along Joy Ranch road and then north on 26th Street for a total of 0.3 miles (from the intersection of 24th and Joy Ranch). The Clue is located 140' west of the road under a Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE D, OPEN EMERGENCY SOLUTION ENVELOPE 1, WHICH WILL DIRECT YOU TO CLUE E.**

**THIS IS CLUE D. SOLVING THIS CLUE WILL LEAD YOU TO CLUE E.**

This Clue is a visual clue consisting of the following:



A Palo Verde tree with a radiation symbol attached.

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE E, OPEN EMERGENCY ENVELOPE 1, WHICH WILL DIRECT YOU TO CLUE E.**

---

**THIS IS EMERGENCY SOLUTION 1, WHICH WILL DIRECT YOU TO CLUE E.**

We hope you looked up in the palo verde tree at the clue site and saw the international symbol for radiation hanging in the foliage. It means, of course, that this plant is a Palo Verde Nuclear Plant. So keep current by charging over to Circle 22 at APS Wash and Rate Hike Way.

Circle 22 is located near the intersection of Desert Hills Rd. and 7th Avenue. From the intersection, proceed west on Desert Hills Road for 0.5 miles to a wash. The Clue is located 263' north up the wash, on the east side at the base of a dead tree.

**IF YOU ARE UNABLE TO LOCATE CLUE E, OPEN EMERGENCY SOLUTION ENVELOPE 9, WHICH WILL DIRECT YOU TO CLUE F.**

**THIS IS CLUE E. SOLVING THIS CLUE WILL LEAD YOU TO CLUE F.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE F, OPEN  
EMERGENCY ENVELOPE 9, WHICH WILL DIRECT YOU TO CLUE F.**

---

**THIS IS EMERGENCY SOLUTION 9, WHICH WILL DIRECT YOU TO CLUE F.**

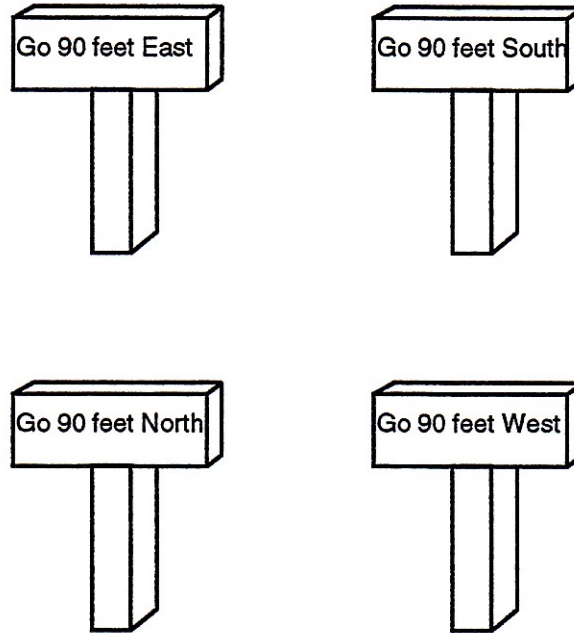
The map is instantly recognizable as Africa, but what is the "eye" doing on it? The eye marks the location of Tripoli, Libya, so what we have here is an "eye-Tripoli", or IEEEE. Hints Wise and Otherwise #19 tells you to keep an eye on Saddam, but he's in Iraq, and you'll be at the Jackass Site if you went to Circle 19. The HWOW told you that this was the 42nd annual IEEE Treasure Hunt, and it also mentioned The Summer of Forty-two at I(!)MAX, so scramble over to Circle 42.

Circle 42 is located near the intersection of 24th Street and Carefree Highway. From the intersection, proceed 0.4 miles north on 24th Street. Turn west onto a dirt road and go 0.1 miles to a depression (or a stock tank if it has rained recently). The clue is located in the northwest corner of the stock tank (a livestock watering hole) near a Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE F, OPEN EMERGENCY SOLUTION  
ENVELOPE 17, WHICH WILL DIRECT YOU TO CLUE G.**

**THIS IS CLUE F. SOLVING THIS CLUE WILL LEAD YOU TO CLUE G.**

This clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE G, OPEN EMERGENCY ENVELOPE 17, WHICH WILL DIRECT YOU TO CLUE G.**

---

**THIS IS EMERGENCY SOLUTION 17, WHICH WILL DIRECT YOU TO CLUE G.**

If you followed the directions on the signs, you would have found yourself going around in an infinite loop. So rather than walk in circles all night it might be wise to check out the software program in your brown bag which contains an infinite loop. The program tells you to perform the following summation:

$$\sum_{n=0}^{\infty} a^n = \sum_{n=0}^{\infty} (0.25)^n = 4/3$$

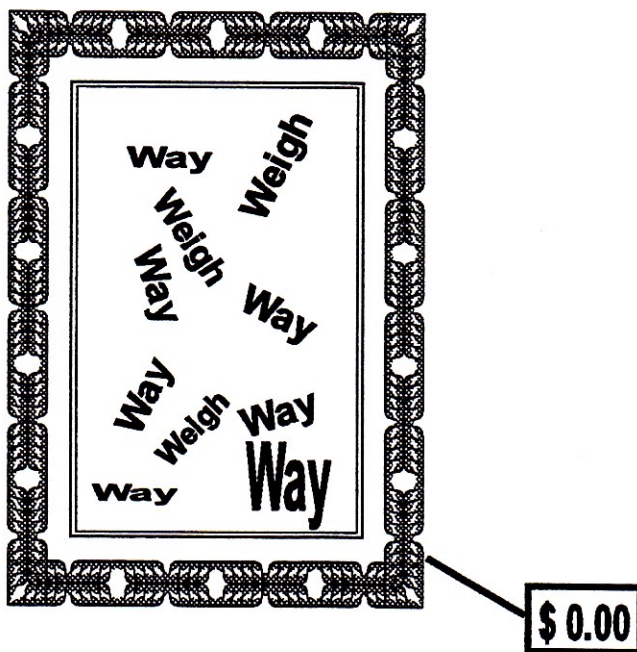
So head on over to Circle 4/3.

Circle 4/3 is located near the intersection of Cave Creek and Dove Valley. From the intersection, proceed 0.3 miles west on Dove Valley. Turn south on 48th Street and travel 0.22 miles to a wash. The Clue is located 250' east down the wash and then south 25' behind three Saguaros.

**IF YOU ARE UNABLE TO LOCATE CLUE G, OPEN EMERGENCY SOLUTION ENVELOPE 13, WHICH WILL DIRECT YOU TO CLUE H.**

**THIS IS CLUE G. SOLVING THIS CLUE WILL LEAD YOU TO CLUE H.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE H, OPEN EMERGENCY ENVELOPE 13, WHICH WILL DIRECT YOU TO CLUE H.**

---

**THIS IS EMERGENCY SOLUTION 13, WHICH WILL DIRECT YOU TO CLUE H.**

Is this a picture of WAYS that are free ?? No - it's Free WAY-ART. Remember the \$500,000 your tax dollars spent on art for the Squaw Peak Parkway? The Phoenix freeway map enclosed in the Brown Bag shows that the Squaw Peak is State Route 51, so motor on over to Circle 51.

Circle 51 is located near the intersection of Scottsdale and Lone Mountain Roads. From the intersection, proceed east on Lone Mountain Road for 1.0 miles. Then, travel north on Hayden for 0.25 miles to Ranch Road. The Clue is located 78' northeast of the intersection, under a large Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE H, OPEN EMERGENCY SOLUTION ENVELOPE 26, WHICH WILL DIRECT YOU TO CLUE I.**

**THIS IS CLUE H. SOLVING THIS CLUE WILL LEAD YOU TO CLUE I.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE I, OPEN EMERGENCY ENVELOPE 26, WHICH WILL DIRECT YOU TO CLUE I.**

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**THIS IS EMERGENCY SOLUTION 26, WHICH WILL DIRECT YOU TO CLUE I.**

You engineers probably thought this was a clue about industrial espionage "leaks" from Silicon Valley. Hints Wise and Otherwise #13 gives you a hint about this clue, so the sharp TH'er should be able to figure out that these are leaks from silicon(e) breast implants which caused medical problems for those who wished to improve upon Mother Nature. So, don't you bust anything when hurrying to Circle "36D" on Dow Way

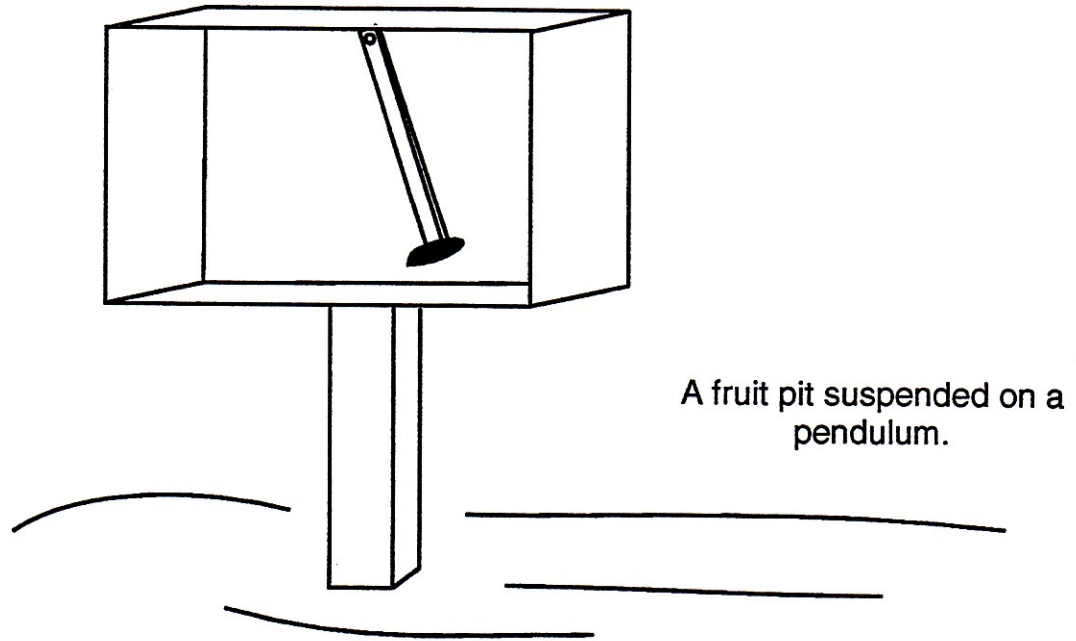
Circle 36D is located near the intersection of Cave Creek Road and Carefree Highway. From the intersection, proceed east on Carefree Highway for 0.7 miles to 60th Street. Travel south on 60th Street for 1.0 miles to the barricade. The Clue is located 75' southeast of the intersection under a Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE I, OPEN EMERGENCY SOLUTION ENVELOPE 4, WHICH WILL DIRECT YOU TO CLUE J.**



**THIS IS CLUE I. SOLVING THIS CLUE WILL LEAD YOU TO CLUE J.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE J, OPEN EMERGENCY ENVELOPE 4 WHICH WILL DIRECT YOU TO CLUE J.**

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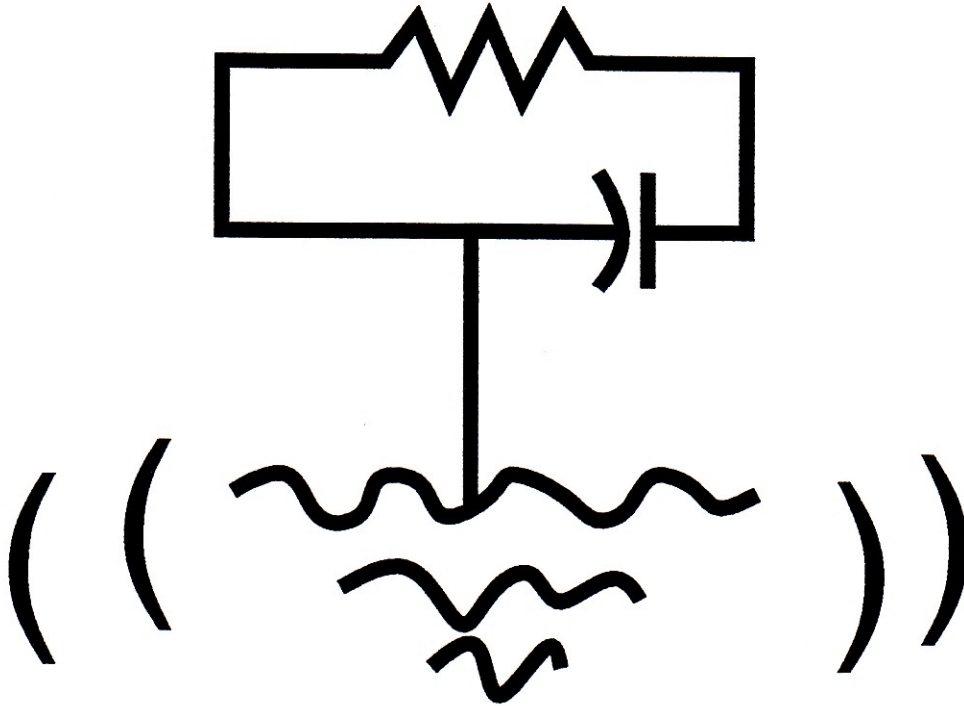
**THIS IS EMERGENCY SOLUTION 4, WHICH WILL DIRECT YOU TO CLUE J.**

What's this hanging from a string? A fruit pit. That makes this a pendulum made from a pit, or a Pit and the Pendulum. Since TH'ers are familiar with all kinds of horrors, they will recognize this as the title of a famous short story by Edgar Allan Poe. So oscillate over to Circle 44 at E.A. Poe Road.

Circle 44 is located near the intersection of Rio Verde/Dynamite and Alma School. From the intersection, proceed west on Rio Verde/Dynamite 0.05 miles to a dirt road. Travel north 0.35 miles on the dirt road to the large intersection with another dirt road running east. The Clue is located 48' east and 57' south of the large intersection behind a Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE J, OPEN EMERGENCY SOLUTION ENVELOPE 16, WHICH WILL DIRECT YOU TO CLUE K.**

**THIS IS CLUE J. SOLVING THIS CLUE WILL LEAD YOU TO CLUE K.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE K, OPEN EMERGENCY ENVELOPE 16, WHICH WILL DIRECT YOU TO CLUE K.**

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**THIS IS EMERGENCY SOLUTION 16, WHICH WILL DIRECT YOU TO CLUE K.**

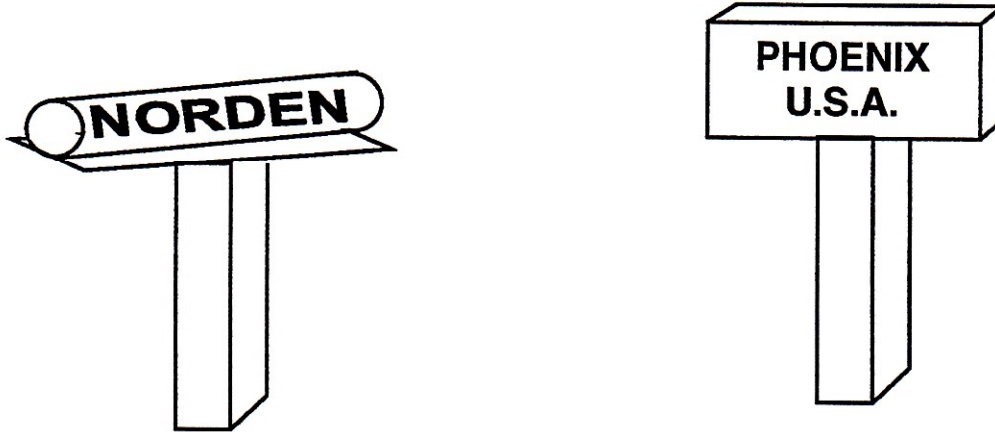
All you Electrical Engineers will recognize the symbol for an "earth ground". But this one is shaking! Shaking ground ... Hmmm ... as in earthquake! The brown bag has an article on the "big one" in Southern California this summer that was felt in the Valley and which had a reading of 7.4 on the Richter Scale. So, avoid cracks in the road and flee to Circle 7.4.

Circle 7.4 is located near the intersection of 93rd Street and Rio Verde. From the intersection, proceed north 0.5 miles on 93rd Street to the barricade at Troon North Drive. Turn east onto Troon North Drive and travel 0.15 miles to another barricade, 120' past the intersection of Troon North and Peak View Road. Go 88' northeast up the dirt road past the barricade. The Clue is located 63' southeast of the dirt road behind a large boulder.

**IF YOU ARE UNABLE TO LOCATE CLUE K, OPEN EMERGENCY SOLUTION ENVELOPE 5, WHICH WILL DIRECT YOU TO CLUE L.**

**THIS IS CLUE K. SOLVING THIS CLUE WILL LEAD YOU TO CLUE L.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE L, OPEN EMERGENCY ENVELOPE 5 WHICH WILL DIRECT YOU TO CLUE L.**

---

**THIS IS EMERGENCY SOLUTION 5, WHICH WILL DIRECT YOU TO CLUE L.**

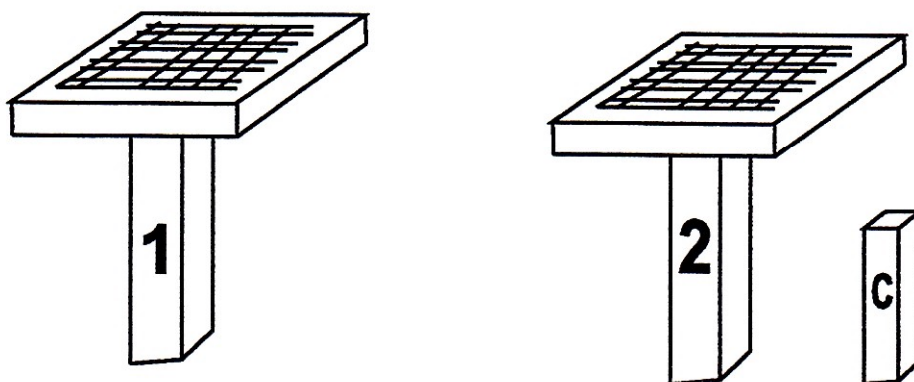
If the clever TH'er looks through the "Norden" sight, he will have the sign labeled "Phoenix, USA" in sight, or "Phoenix USA Insight". The brown bag contains a Cable Conversion Chart that gives the USA channel for Insight in Phoenix as Channel 28, so tune your team into Circle 28.

Circle 28 is located near the intersection of 132nd Street and Rio Verde. From the intersection, proceed south on 132nd Street 0.6 miles to Quail Track. The Clue is located 97' north, 62' west of the intersection behind a Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE L, OPEN EMERGENCY SOLUTION ENVELOPE 8, WHICH WILL DIRECT YOU TO CLUE M.**

**THIS IS CLUE L. SOLVING THIS CLUE WILL LEAD YOU TO CLUE M.**

This clue is a visual clue consisting of the following:



Letter grids mounted flat on poles numbered 1 and 2, and a letter 'C' next to pole #2.

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE M, OPEN EMERGENCY ENVELOPE 8, WHICH WILL DIRECT YOU TO CLUE M.**

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**THIS IS EMERGENCY SOLUTION 8 , WHICH WILL DIRECT YOU TO CLUE M.**

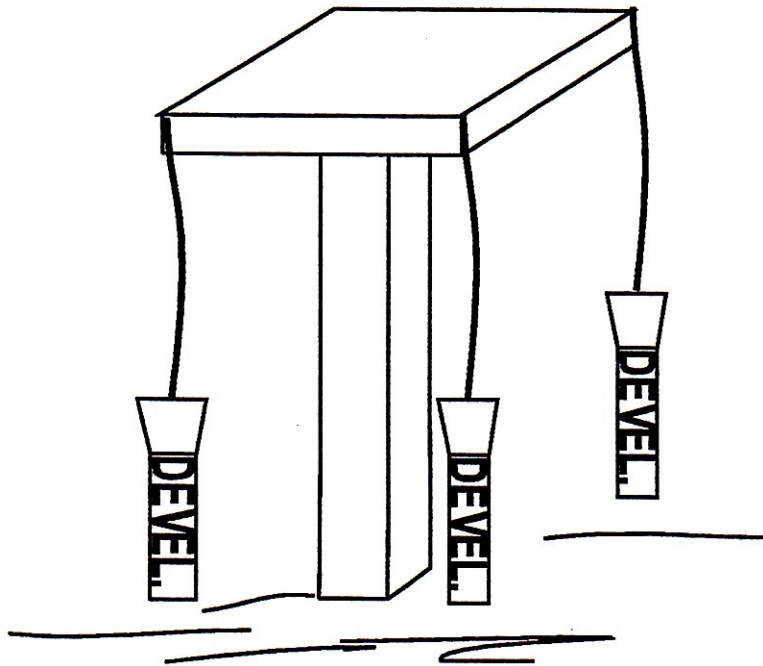
To solve this clue the clever TH'er must read the "edges" of the grids mounted on the posts. Reading the edges of post #1 yields "seven teen" and post #2 yields "seventy six". Which is the correct clue site to go to? The Hints Wise and Otherwise reminds you of the "Revolutionary Lantern Code" -- 1 if by land and 2 if by sea (C). Post #2, or 76, is by the letter 'C', so row over to Circle 76.

Circle 76 is located near the intersection of Happy Valley Road and 112th Place. From the intersection, proceed east on Happy Valley 0.5 miles to 116th Street. Turn north onto 116th Street and travel 0.15 miles to a barricade. Just before the barricade, turn west and proceed 0.05 miles into a cul-de-sac. The Clue is located 111' north of the cul-de-sac center, 17' east of the dirt road behind a Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE M, OPEN EMERGENCY SOLUTION ENVELOPE 22, WHICH WILL DIRECT YOU TO CLUE N.**

**THIS IS CLUE M. SOLVING THIS CLUE WILL LEAD YOU TO CLUE N.**

This clue is a visual clue consisting of the following:



A post and shelf with  
"Developer Pens".

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE N, OPEN  
EMERGENCY ENVELOPE 22, WHICH WILL DIRECT YOU TO CLUE N.**

---

**THIS IS EMERGENCY SOLUTION 22, WHICH WILL DIRECT YOU TO CLUE N.**

We hope you took the advice of HWOW and bought and saved the blank piece of paper that the Wizard was selling in the check-out line, because the clue is impossible to solve without it. Why? Well, the paper is not really blank. HWOW also told you to "develop your interests on Hunt Night", and to do this you use the "developer pens" attached to the shelf to make the number "43" appear on one side of the paper. So head off to Circle 43.

Circle 43 is located near the intersection of Pima and Happy Valley Roads. From the intersection, proceed north on Pima 0.5 miles to Desert Highlands Road. Turn east onto Desert Highlands Road and travel 0.15 miles to the beginning of a turnaround. The Clue is located 76' north of the turnaround on the northwest bank of a wash behind two Palo Verde trees.

**IF YOU ARE UNABLE TO LOCATE CLUE N, OPEN EMERGENCY SOLUTION  
ENVELOPE 2, WHICH WILL DIRECT YOU TO CLUE O.**

**THIS IS CLUE N. SOLVING THIS CLUE WILL LEAD YOU TO CLUE O.**

**00101011 v 11010100 ?**

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE O, OPEN  
EMERGENCY ENVELOPE 2 , WHICH WILL DIRECT YOU TO CLUE O.**

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**THIS IS EMERGENCY SOLUTION 2, WHICH WILL DIRECT YOU TO CLUE O.**

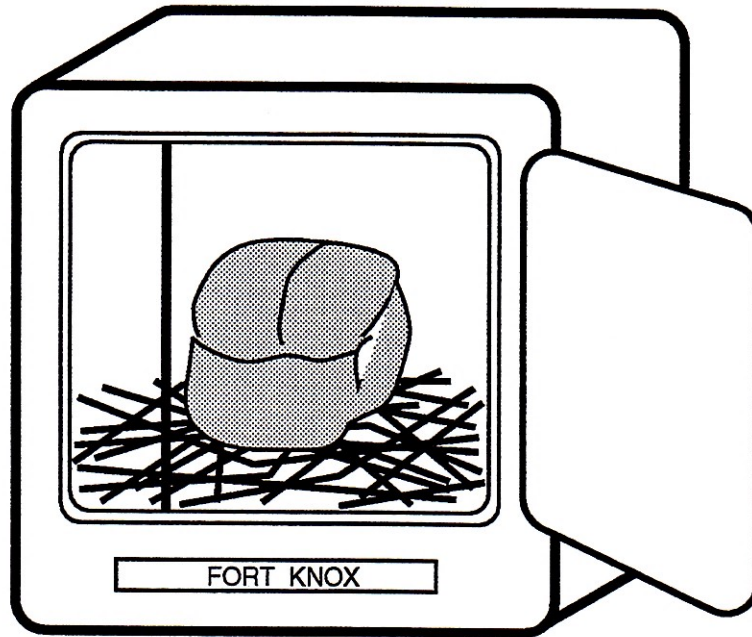
Yes, 00101011 ORed with 11010110 is 11111111, but it's not on the map!  
However, posed as hex, the question becomes 2B v D4 which is 2B OR  
2B. Any EE having a passing acquaintance with Shakespeare  
recognizes this as "To be, or not to be". So, head to Circle 99 on Hamlet  
Lane.

Circle 99 is located near the intersection of Pima and Pinnacle Peak  
Roads. Proceed south on Pima Rd. for 2.8 miles. Then, travel east on  
Downing-Olson for 0.1 miles. Go south on Pima Rd., again, for 0.3  
miles. Proceed east on Union Hills for 0.65 miles; the pavement will  
become dirt at approximately 0.5 miles. Go north on a dirt road  
approximately 155'. The Clue is located 75' west of the road at the base  
of a Saguaro.

**IF YOU ARE UNABLE TO LOCATE CLUE O, OPEN EMERGENCY SOLUTION  
ENVELOPE 25, WHICH WILL DIRECT YOU TO CLUE P.**

**THIS IS CLUE O. SOLVING THIS CLUE WILL LEAD YOU TO CLUE P.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE P, OPEN EMERGENCY ENVELOPE 25, WHICH WILL DIRECT YOU TO CLUE P.**

---

**THIS IS EMERGENCY SOLUTION 25, WHICH WILL DIRECT YOU TO CLUE P.**

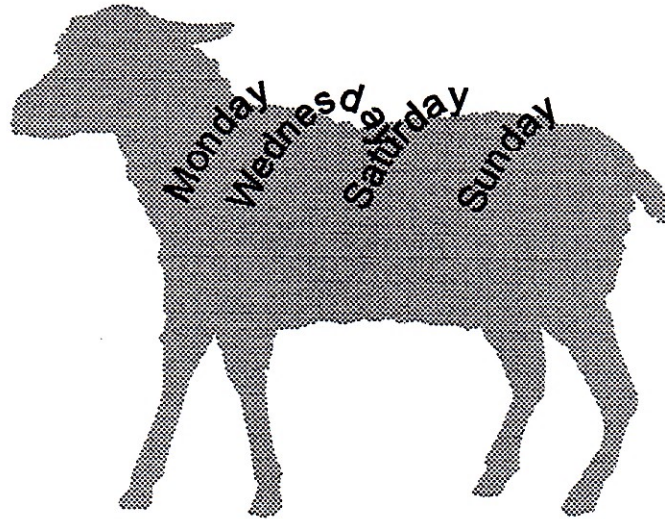
This is not your average dinner roll! Obviously, it's a safe "roll in the hay". And, as everyone knows, the popular prescription for such activity involves a condom. Rather than stopping at the nearest pharmacy, cruise over to Circle 15 on Trojan Way.

Circle 15 is located near the intersection of Pinnacle Peak and Scottsdale Roads. Proceed 0.5 miles south on Scottsdale Rd. to Williams Dr. Travel east on Williams Dr. for 0.5 miles. Then, go north for 0.3 miles. The Clue is located approximately 240' east of the road at the base of a Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE P, OPEN EMERGENCY SOLUTION ENVELOPE 10, WHICH WILL DIRECT YOU TO CLUE Q.**

**THIS IS CLUE P. SOLVING THIS CLUE WILL LEAD YOU TO CLUE Q.**

This Clue is a visual clue consisting of the following:



(Note: The figure is a lamb, not a sheep.)

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE Q, OPEN  
EMERGENCY ENVELOPE 10, WHICH WILL DIRECT YOU TO CLUE Q.**

---

**THIS IS EMERGENCY SOLUTION 10, WHICH WILL DIRECT YOU TO CLUE Q.**

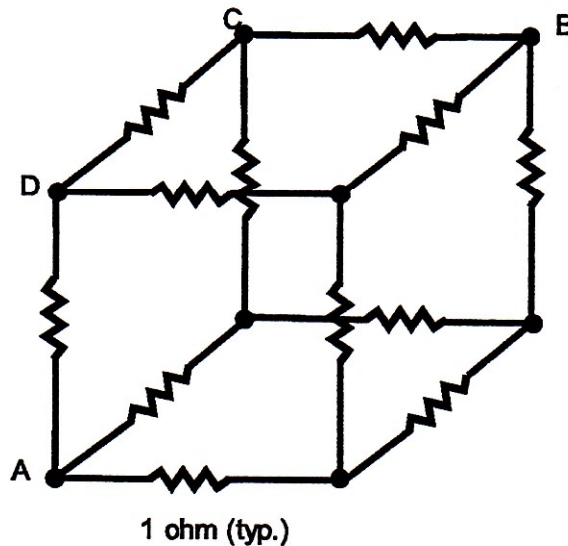
No, this is not a "Silence of the Lambs" clue! It is a "days of the week on a lamb", or simply "days on the lam". One of the major news items in Arizona this past year was Danny Ray Horning's escape from prison and extended evasion! How long was he on the lam? The brown bag article reminds the inquisitive THer that Danny Boy was out for 54 days. So, hike on over to Circle 54.

Circle 54 is located near the intersection of Scottsdale Rd. and Dynamite. Proceed west on Dynamite for 1.0 miles to 64th St. Go south on 64th St. for 0.4 miles to a large wash on the west side. The Clue is located 185' southwest under a moderate sized Palo Verde tree on the north side of the north branch of the wash.

**IF YOU ARE UNABLE TO LOCATE CLUE Q, OPEN EMERGENCY SOLUTION  
ENVELOPE 12, WHICH WILL DIRECT YOU TO CLUE R.**



**THIS IS CLUE Q. SOLVING THIS CLUE WILL LEAD YOU TO CLUE R.**



What is the resistance between opposite corners of the cube? (e.g., between A & B)

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE R, OPEN EMERGENCY ENVELOPE 12, WHICH WILL DIRECT YOU TO CLUE R.**

---

**THIS IS EMERGENCY SOLUTION 12, WHICH WILL DIRECT YOU TO CLUE R.**

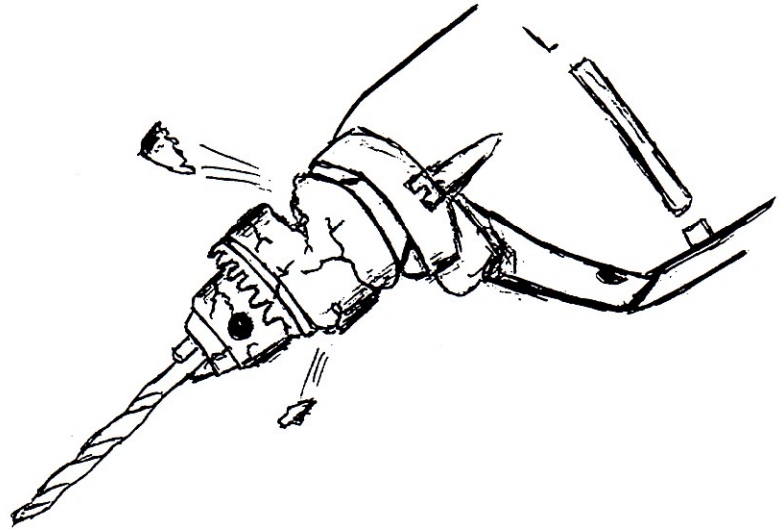
One solution is to short the 3 corners nearest to A together; do likewise with the three corners nearest to B. Current flow would not be disturbed since these are symmetrical (i.e., equipotential). Once shorted, they will carry no current. This leaves 3 equal resistors in parallel between A and D, 6 between D and C, and 3 between C and B. The equivalent resistance will be:

$$1/3 + 1/6 + 1/3 = 5/6. \text{ Head for Circle } 5/6.$$

Circle 5/6 is located near the intersection of Pinnacle Peak and Cave Creek Roads. From their intersection, take Cave Creek northeast for 0.85 miles. Turn west under the powerlines and proceed 400' to the first set of towers. The Clue is near the northwest leg of the northernmost tower.

**IF YOU ARE UNABLE TO LOCATE CLUE R, OPEN EMERGENCY SOLUTION ENVELOPE 21, WHICH WILL DIRECT YOU TO CLUE S.**

**THIS IS CLUE R. SOLVING THIS CLUE WILL LEAD YOU TO CLUE S.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE S, OPEN  
EMERGENCY ENVELOPE 21, WHICH WILL DIRECT YOU TO CLUE S.**

---

**THIS IS EMERGENCY SOLUTION 21, WHICH WILL DIRECT YOU TO CLUE S.**

The drill chuck and the die are falling apart. i.e., Rumor has it that "Chuck and Di" are breaking up. So, divorce yourself from your current plight, and proceed to Circle 11 at Will Way and Harry Heights. Note the nearby "Bucking-ham"!

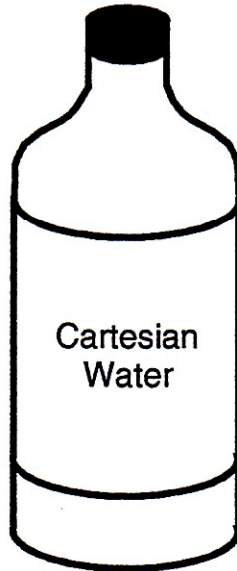


Circle 11 is located near the intersection of Deer Valley Rd. and 19th Ave. Proceed north on 19th Ave. for 0.7 miles to Knudson Dr. and then east for 0.42 miles to 15th Ave. Go north on 15th Ave. for 300' until it ends at a barricade. The Clue is located 31' north, 231' west of the barricade, under a Mesquite tree.

**IF YOU ARE UNABLE TO LOCATE CLUE S, OPEN EMERGENCY SOLUTION  
ENVELOPE 19, WHICH WILL DIRECT YOU TO CLUE T.**

**THIS IS CLUE S. SOLVING THIS CLUE WILL LEAD YOU TO CLUE T.**

This Clue is a working visual, consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE T, OPEN EMERGENCY ENVELOPE 19, WHICH WILL DIRECT YOU TO CLUE T.**

---

**THIS IS EMERGENCY SOLUTION 19, WHICH WILL DIRECT YOU TO CLUE T.**

From the hints, Divers do it Deeper, Boyle's Law ( $P_1V_1 = P_2V_2$ ) and Cartesian Water, you should have analyzed (or guessed) that this device is a "cartesian diver". Squeeze the bottle gently, and the diver sinks straight down to the bottom, showing you the next clue at Circle "i".

Circle "i" is located near the intersection of 7th St. and Deer Valley Rd. Proceed east on Deer Valley Rd. for 0.6 miles to a dirt road running southeast. Go southeast on the dirt road for 250' to the power line. The Clue is located 192' southwest, under the first power pole.

**IF YOU ARE UNABLE TO LOCATE CLUE T, OPEN EMERGENCY SOLUTION ENVELOPE 15, WHICH WILL DIRECT YOU TO CLUE U.**

**THIS IS CLUE T. SOLVING THIS CLUE WILL LEAD YOU TO CLUE U.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE U, OPEN  
EMERGENCY ENVELOPE 15, WHICH WILL DIRECT YOU TO CLUE U.**

---

**THIS IS EMERGENCY SOLUTION 15, WHICH WILL DIRECT YOU TO CLUE U.**

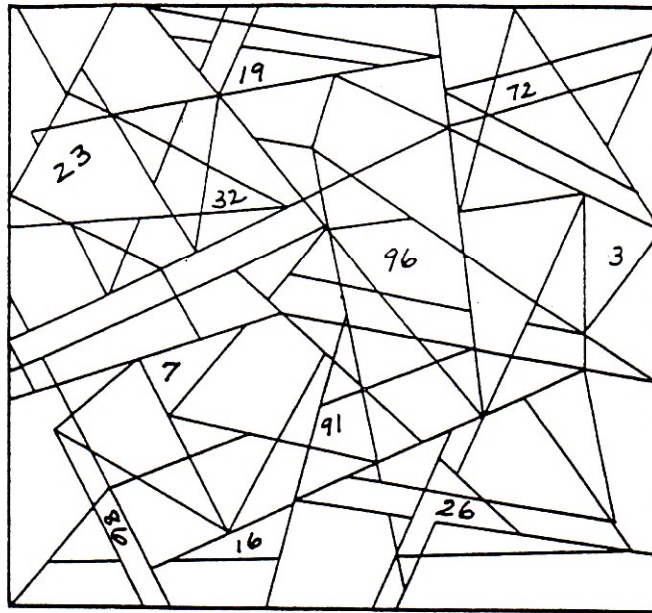
Batman's logo? Not! Here, we have the international "biohazard" symbol - like the Brown Bag specimen bag (without specimen). So, heed the warning and carefully retrieve your next clue at Circle OO, located near Blood Blvd and Plasma Parkway.

Circle OO is located near the intersection of 16th St. and Beardsley Rd. Proceed south on 16th St. for exactly 520', not 0.1 miles. The Clue is located 221' east under a Palo Verde tree.

**IF YOU ARE UNABLE TO LOCATE CLUE U, OPEN EMERGENCY SOLUTION  
ENVELOPE 11, WHICH WILL DIRECT YOU TO CLUE V.**

**THIS IS CLUE U. SOLVING THIS CLUE WILL LEAD YOU TO CLUE V.**

This Clue is a working visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE V, OPEN EMERGENCY ENVELOPE 11, WHICH WILL DIRECT YOU TO CLUE V.**

---

**THIS IS EMERGENCY SOLUTION 11, WHICH WILL DIRECT YOU TO CLUE V.**

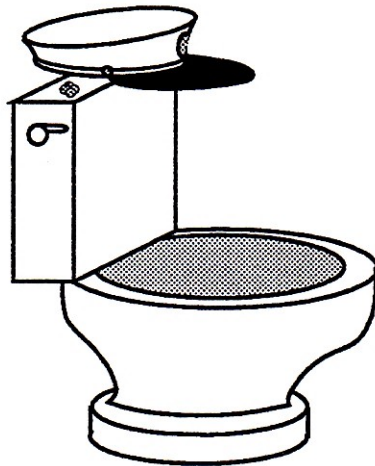
If you remembered to take the Brown Bag "star" template to the clue site, you could have found the star hidden in the pattern containing the number 26. Proceed to Circle 26 on the map.

Circle 26 is located near the intersection of Pinnacle Peak and Cave Creek Roads. Proceed east 1.65 miles on Pinnacle Peak to a dirt road under the power lines. Travel north 0.2 miles to the second power pole and turn northeast immediately after it. Go 0.1829 miles. The Clue is located behind a sprawling Palo Verde tree on the north side of the road near a small wash.

**IF YOU ARE UNABLE TO LOCATE CLUE V, OPEN EMERGENCY SOLUTION ENVELOPE 3, WHICH WILL DIRECT YOU TO CLUE W.**

**THIS IS CLUE V. SOLVING THIS CLUE WILL LEAD YOU TO CLUE W.**

This Clue is a visual clue consisting of the following:



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE W, OPEN  
EMERGENCY ENVELOPE 3, WHICH WILL DIRECT YOU TO CLUE W.**

---

**THIS IS EMERGENCY SOLUTION 3, WHICH WILL DIRECT YOU TO CLUE W.**

What's this commode doing with a military cap and the insignia of a major? Why, it must be a Major john, but you might know it better as a John Major, Prime Minister of Great Britain. Everyone knows the P.M. lives at #10 Downing St., so tally ho to Circle 10 on Down-In Street.

Circle 10 is located near the intersection of Scottsdale Rd. and Princess Blvd. Proceed east on Princess Blvd. for 0.7 miles. (The road will turn to dirt.) Then, turn north and travel 0.14 miles. The Clue is located 123' west of the road at the base of an Ironwood tree, near a wash.

**IF YOU ARE UNABLE TO LOCATE CLUE W, OPEN EMERGENCY SOLUTION  
ENVELOPE 7, WHICH WILL DIRECT YOU TO CLUE X.**

**THIS IS CLUE W. SOLVING THIS CLUE WILL LEAD YOU TO CLUE X.**

seconds/day  
+ inches<sup>3</sup>/foot<sup>3</sup>  
+ yards/mile  
+ days/leap year  
+ temperature where °F = °C  
- quarts/gallon

**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE X, OPEN  
EMERGENCY ENVELOPE 7, WHICH WILL DIRECT YOU TO CLUE X.**

---

**THIS IS EMERGENCY SOLUTION 7, WHICH WILL DIRECT YOU TO CLUE X.**

seconds/day	+ 86,400	
+ inches <sup>3</sup> /foot <sup>3</sup>	+ 1,728	Any high school student should be able
+ yards/mile	+ 1,760	to complete this simple calculation,
+ days/leap year	+ 366	<u>AND</u> any high school student will
+ temperature where °F = °C	+ (-40)	immediately recognize this answer as
- quarts/gallon	- 4	the zip code for Beverly Hills. How do
	-----	they know? Their favorite TV show is
	90,210	"Beverly Hills, 90210"! So zip over to
		Circle 59 on Beverly Hills Wash.

Circle 59 is located near the intersection of Scottsdale and Princess Roads. Proceed 1.2 miles north to a small structure on the east side of the road. The Clue is located 290' west of the road on the west side of a wash, under a small Hackberry Bush.

**IF YOU ARE UNABLE TO LOCATE CLUE X, OPEN EMERGENCY SOLUTION  
ENVELOPE 20, WHICH WILL DIRECT YOU TO CLUE Y.**

THIS IS CLUE X. SOLVING THIS CLUE WILL LEAD YOU TO CLUE Y.

-----		-----	Washington's River
-----		-----	We, the People...
-----		-----	7 / 4 / 76
-----		-----	
-----		-----	16th President
-----		-----	Four score and seven
-----		-----	Ten Amendments

IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE Y, OPEN EMERGENCY ENVELOPE 20, WHICH WILL DIRECT YOU TO CLUE Y.

---

THIS IS EMERGENCY SOLUTION 20, WHICH WILL DIRECT YOU TO CLUE Y.

POTOMAC		Washington's River
CONSTITUTION		We, the People...
INDEPENDENCE DAY		7 / 4 / 76
LINCOLN		16th President
EIGHTY-SEVEN		Four score and seven
BILL OF RIGHTS		Ten Amendments

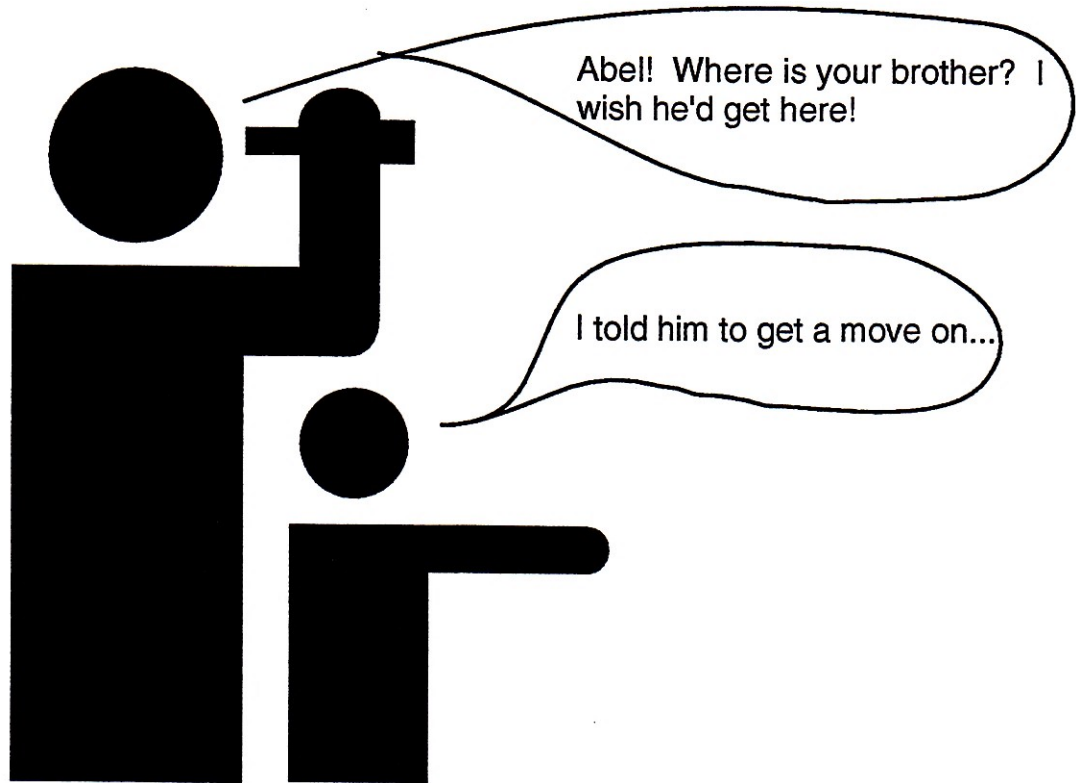
How's your American history? The correct answer is **MCDXCII**, or 1492. To celebrate our 500th year, sail on over to Circle 500 near Columbus Way.

Circle 500 is located near the intersection of Jomax and Scottsdale Roads. Proceed west on Jomax for 1.4 miles. (At 1.3 miles, there is a utility building to the north.) Look for a Palo Verde tree on the south side of the road, just east of the fence corner. The Clue is located 73' south under another Palo Verde tree.

IF YOU ARE UNABLE TO LOCATE CLUE Y, OPEN EMERGENCY SOLUTION ENVELOPE 24, WHICH WILL DIRECT YOU TO CLUE Z.




**THIS IS CLUE Y. SOLVING THIS CLUE WILL LEAD YOU TO CLUE Z.**




**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE Z, OPEN EMERGENCY ENVELOPE 24, WHICH WILL DIRECT YOU TO CLUE Z.**

---

**THIS IS EMERGENCY SOLUTION 24, WHICH WILL DIRECT YOU TO CLUE Z.**

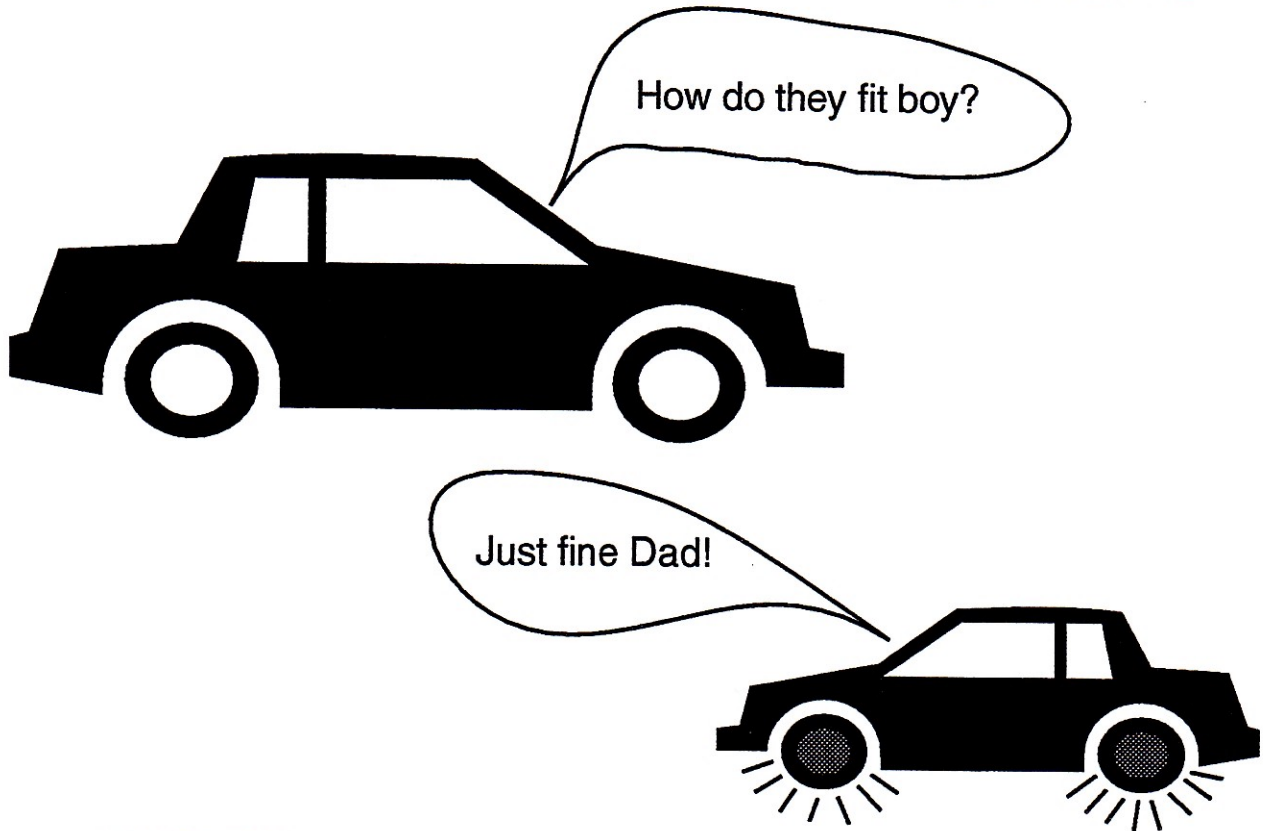
These people sure wish (in a biblical sense) that Cain would show! You might say they would like to "hurry cain". Any right-brained THER will immediately associate this with hurricane. And, the biggest storm to hit the US was Andrew. So, blow on over to Circle  at Dade Wash and Homestead Way.



Circle  is located near the intersection of Scottsdale Rd. and Dynamite. Proceed north for 0.5 miles. Turn east onto Via Dona and go 0.5 miles to 76th St. Go north on 76th St. for 0.25 miles to a small wash. The Clue is located 71' east of the road under a lone Saguaro, near a large Ironwood tree.

**IF YOU ARE UNABLE TO LOCATE CLUE Z, OPEN EMERGENCY SOLUTION ENVELOPE 14, WHICH WILL DIRECT YOU TO CLUE A.**

**THIS IS CLUE Z. SOLVING THIS CLUE WILL LEAD YOU TO CLUE A.**



**IF YOU ARE UNABLE TO SOLVE THIS CLUE OR TO FIND CLUE A, OPEN  
EMERGENCY ENVELOPE 14, WHICH WILL DIRECT YOU TO CLUE A.**

---

**THIS IS EMERGENCY SOLUTION 14, WHICH WILL DIRECT YOU TO CLUE A.**

What do you call it when an automobile buys his boy new shoes?  
Obviously, a case of CAR SON RE-TIRES. And, what famous Carson  
retired this year? Why, Johnny of course -- from Channel 12!  
(According to the HWOW, it's the end of an era.). So, motor over to  
Circle 12.

Circle 12 is located near the intersection of Pima Rd. and Stagecoach  
Pass. Proceed south on Pima Rd. for 0.5 miles to Hawknest Rd.  
Turn west and travel 0.65 miles to the intersection of Windmill Rd.  
The Clue is located 115' south of the intersection, behind some  
boulders.

**IF YOU ARE UNABLE TO LOCATE CLUE A, OPEN EMERGENCY SOLUTION  
ENVELOPE 23, WHICH WILL DIRECT YOU TO CLUE B.**