



VOICE

JANUARY

2014

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ARE
DUE

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UP COMING EVENTS

JANUARY 11, 2014 - MOUNTAIN VILLAGE 1890 AND BULL SHOALS CAVERNS
1011 CS WOODS BLVD BULL SHOALS, AR 72619

HOST - GERALD OATS - 1-870-445-7177

TRADE ITEM - NAIL HEADER

No Lunch Provided

JANUARY 18, 2014 - NEA MEETING

HOST - GLENN OWENS

JONESBORO, AR

JANUARY 20, 2014 - DEADLINE FOR THE NEWSLETTER

FEBRUARY 8, 2014 - TBA

HOST -

TRADE ITEM -

NEWSLETTER DISCLAIMER:

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BLACKSMITHS OF ARKANSAS
December 17, 2013

Thanks to James Brantley and his wife Frankie for hosting the meeting. Frankie is a very good cook. Just ask anyone who attended.

Since the day was on the wintry side, it was good that we worked inside. Nobody got stuck in the field so badly that they had to spend the night. James did have his tractor handy just in case.

Quite a few worked at the forge. We even had another contest and several of us got involved. Bob Lock won the contest for long-time members, and Clyde Foster won the one for newer members.

It was good to see Bob Patrick at the meeting. He was his usual friendly self and as always, very helpful.

We had a couple of visitors. One was James Brantley's new grandson, Noah, who got to hammer some. The other visitor was Danny Blankenship, who stopped by to locate some coal. James had a little extra which he let him have.

Our new president, Justin Jones, did a good job overseeing the meeting. He's still looking into having a seminar for making hammers to be taught by an expert.

Ron Wells has been the owner of the equipment in our trailer for quite some time. The club has had the right to have first chance at purchasing the equipment in the case Ron decided to sell it. He decided to sell it and the vote was we'll take it. It included the forge, anvil, anvil stand, post vise, blower, and a few other things if I'm not mistaken. It was \$700.00 which I thought was a good buy.

Our January 11, 2014, meeting will be held at the 1890 Mountain Village, in Bull Shoals, Arkansas. Travel instructions from Harrison: Take 62- 412 East. At about 5 miles past Yellville, turn left on highway 178 East. That takes you through part of Flippin, on your way to Bull Shoals. Highway 178 is the main street through Bull Shoals. Turn right on C. S. Woods Blvd., which runs beside the new Harps grocery store. In four or five short blocks the village is on the right. The sign says Bull Shoals Caverns, and you can't miss it. The trade piece is a nail header.

The February 8, 2014, meeting will be at Dennis Patrick's place which is just north of Harrison. The trade item is a pair of tongs of your choice.

We hope to see everyone in January!

Harold

How Robb makes sockets

In Robb Gunter's class at John C. Campbell Folk School several years ago, he taught making the socket (for a chisel or garden tool) from pipe (3/4 inch black) by tapering it in a V swage until it fits tight on a tang. The open end of the socket could be drawn some over a bick or slender horn. The short tang was fullered and drawn from the spring stock used for the chisel. Then we fluxed both pieces and forge welded them together.

— Clay Spencer

Anvil stand

I just made a stand for my 140# anvil out of a 10 gallon pail filled with 120# of concrete. Before pouring the concrete I cut 4 pieces of 3/8" threaded rod and mounted them on a piece of wood (in a rectangular pattern) and put this on the bottom of the pail. I made sure the rods would stick up about 6 inches from the top of the pail since it was about 3-4 inches too short. After the concrete dried I drilled and cut three pieces of 4x6 and fitted them on top. The anvil rests on the wood and is held down by angle irons bolted to the rods.

— Matt Balent

Dumb things not to do

Beware the black heat! Just because it isn't red, doesn't mean it isn't hot. There once was a blacksmith who disregarded this tenet of blacksmithing. He foolishly laid some hot iron on a table near his work space instead of on the floor. concentrating on his work, he forgot about it and a few minutes later, he walked too close to the protruding iron and suffered the consequences; holes in his trousers and scorch marks on his skin, not to mention the embarrassment.

— Bruce Birtciel, Arizona Artist
Blacksmith Association

For safety's sake

If you are doing your forging in a place like a garage that serves another function, take a minute to make sure there isn't something laying around that doesn't mix with open fires. I was attempting a forge weld the other day and followed the path of the flying sparks when I saw them land on the lawn mower parked at one end of the shop. I also had a couple of gas tanks in the room. These are now kept at a safe distance but they could have gone boom. Another common problem in my shop is fallen leaves that blow in through the open doorway. It wouldn't take much to set these on fire, perhaps after you have closed up for the night and think the fire is out. If you keep paint in the shop put it inside a closed metal cabinet. Also make sure greasy rags go in an airtight container and never leave anything flammable hanging on a gas welding rig.

Fine finishes

Black Iron Wax
Melt together:
1 part turpentine
2 parts boiled linseed oil
1/4 part beeswax

—Nol Putnam

Traditional Indoor finish
Melt together:
1 pound can Johnson's Paste Wax
1 cup turpentine
1/4 cup boiled linseed oil
1 tablespoon Japan drier

—Francis Whitaker

Make yer mark

So that blade your worked on all morning is thin, thin, thin. How are you going to get the all-important touchmark into it before the anvil cools it? Gene Chapman says: Heat up a big chunk of stock, put it on the anvil, get the hot blade on it quick and make yer mark.

— Hot Iron News, Northwest
Blacksmith Association

Sized to be seen

Weather vanes come in all sizes and Ray Phelps recently had a sheet which sets forth guidelines on letter sizes vs. viewer distances. Here is that information:

Letter size	Viewer Distance
4 inch	150 feet
6 inch	200 feet
8 inch	350 feet
10 inch	450 feet
12 inch	525 feet
15 inch	630 feet
17 inch	710 feet
24 inch	1000 feet

If you want to add a ball to your weather vane and don't know where to find one try: W.F. Norman Corp., PO Drawer 323, 214 N. Cedar, Nevada, Mo. or call 1-800-641-4038. (Ed. note: they also make punched tin ceilings) Another source is J.G. Braun Company, 7540 McCormick Blvd., Skokie, Ill. 60076, 1-800-323-4072. This firm carries balls in steel, stainless, aluminum and brass.

— Indiana Forge Fire

Demo Hint

For complex demo pieces, bring along a finished sample to show your audience what you are working towards. Remember that most visitors have an attention span of maybe 5 minutes. Those who are quite interested may stay for 15. You need to get your story across quickly.

—Fay LeCompte, Blacksmiths Guild
of the Potomac

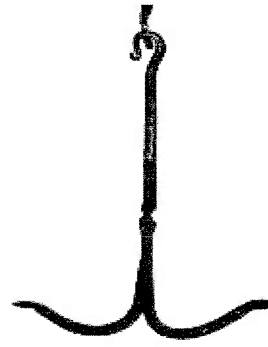
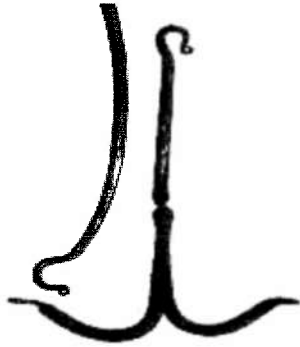
Gunter quench

Rob Gunter, the proprietor of the Forgerly at Tijeras, New Mexico, has developed an experimental quenching solution to replace a 10 percent Sodium Hydroxide solution. It consists of:

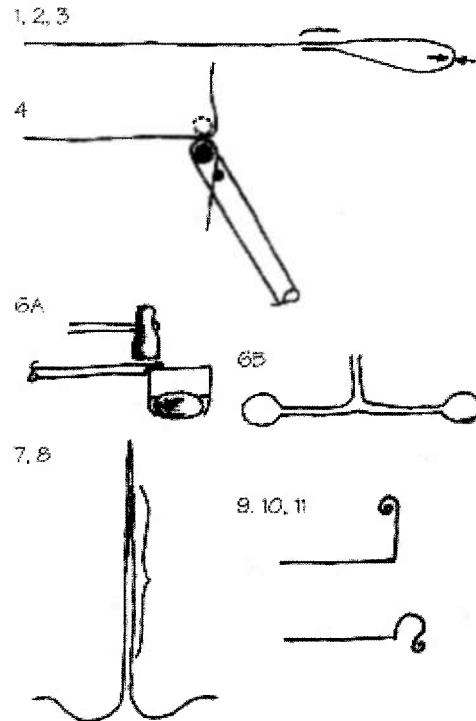
5 gallons water
5 pounds table salt
32 ounces "Dawn" dishwashing liquid
8 ounces Shaklee Basic I
Quench at 1550 degrees F. Use care with any quenching material. Do it outside or with good ventilation to save your lungs.

—Indiana Forge Fire

Colonial Candle Holder

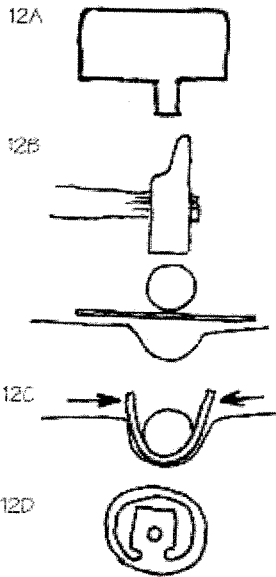


1. Bend a 25" length of $\frac{3}{8}$ " square stock at about 9" from the end so that the end touches the bar leaving an 8" long loop.
2. Forge weld the end to the parent material with a 2" long weld point. Blend and center the weld.
3. Cut the loop as close as possible to the center of the fold to create two equal lengths.
4. Use a bending fork with a large radius to make two equal bends forming a T. Measure and cut the longest end, if they are not exact in length.
5. Upset and round the ends of the T.
6. Make flat buttons out of the rounded bulges on the ends of the T using half-faced blows at the edge of the anvil. The offsets will be on the side of the T facing away from the 9" leg.
7. Draw out an 18" long taper in the leg of the T to a blunt point. The taper needs to be very straight.
8. Shape each of the arms into a gracefully stretched out S. Be sure to align them opposing each other in the same plane and at the same level. Adjust the buttons to be horizontal.
9. Curl the tip of the long leg.
10. Make a soft right angle bend approximately 4" from the curl.
11. Bend tip over the bick or a mandrel to form a hanging hook.



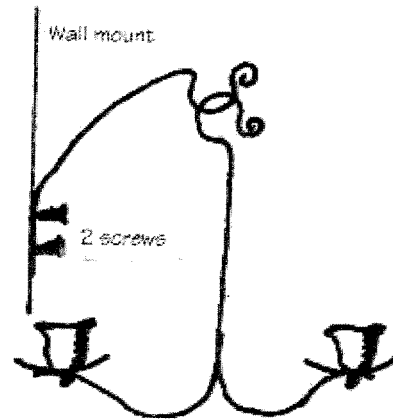
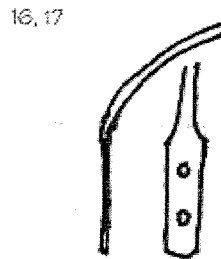
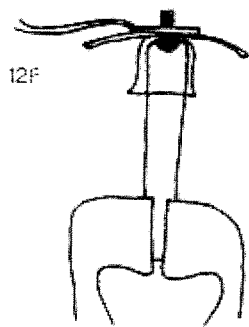
from *The California Blacksmith*
September/October 2008

Continued on the Next Page



12. Rivet a wax dish and candle cup on top of each of the buttons using a rivet-set made out of $\frac{3}{8}$ " round stock with a piece of flat stock welded to the bottom for clamping in a vise. This tool has a dimple in the end that fits over the rivet head. **Note:** The candle cup can be made as shown in 12A - 12D, or you can use the candle cup that could come from the Dogwood Flower project (see page 18).
13. Make a rounded flat spot about $\frac{1}{8}$ " thick, about two-thirds down from the hook using a ball peen hammer.
14. Take a low heat at the flat spot, localize it, and then twist 180° keeping the bar straight.
15. The hanger is made out of 16" of $\frac{3}{8}$ " round. Taper one end and form a hook to match the hook on the candelabra.
16. Flatten 4" of the opposite end keeping the end square. Position the flat to be offset on the wall side of the bracket. Drill and countersink two holes for mounting screws.
17. Bend the bracket to lean away from the wall in a slight curve so that the candelabra will hang away from the wall.

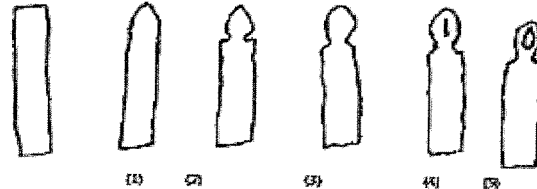
12E- the tool used to set the rivet in 12F



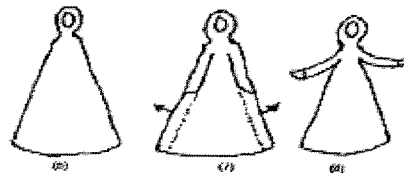
Christmas Angel

3-1/2" x 3/16" x 3/4" MS (start with a long piece and cut free after step 5)

(1) Forge a blunt taper. (2) avoid a "bird's mouth" (3) With a 1/4" spring fuller notch for the neck (4) Round up the head and shoulders



(6) cut with a 5/8" chisel 1st from the back, then finish from the front (5) open the face by upsetting or make a small oval drift

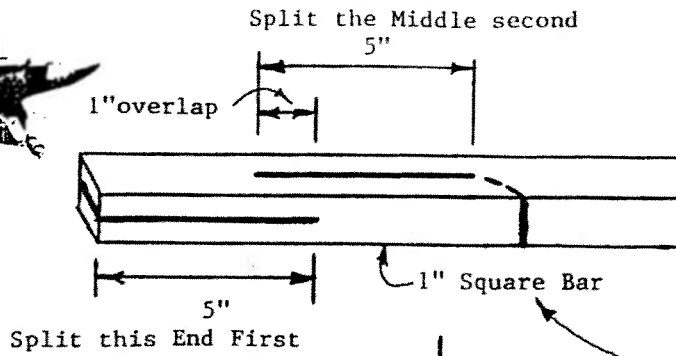


(6) cut free from the bar of about 4" and begin to spread from the center outwards with a cross peen leaving the edges that will produce the arm material a little thicker. (7) cut the edges free and trim the arms to length, about 1". (8) Bend the arms up to the side and on a sharp edge, set off the hands. Then curve the gown from concave to convex. File all sharp edges and finish with wax, clear acrylic or your choice of finish. These are light enough to hang on a tree or in a window.

Hampton Roads Hammers, December 2011



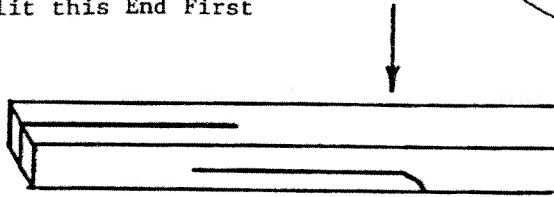
Blacksmith Hints



1"Overlap on 1" Sq. Bar
 3/4"Overlap on 3/4" Sq. Bar
 1/2"Overlap on 1/2" Sq. Bar

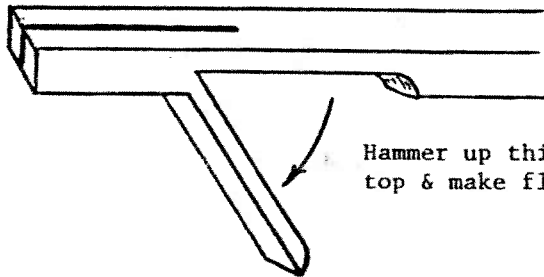
Split with a 1" narrow Hot-cut
 Hold the Hot-cut Straight
 Take the edge off of the
 Hot-cut so it won't make
 grooves.

Clean sides of Split. Don't Leave Burr:



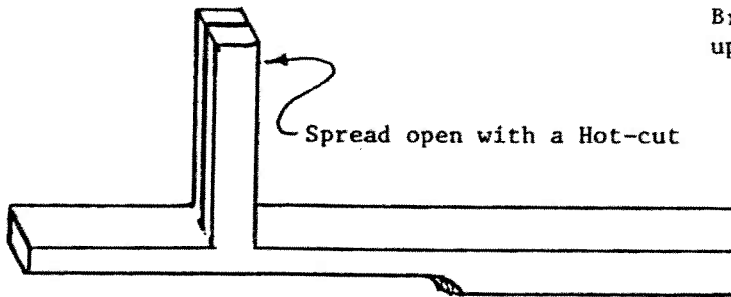
Make this Split Third-Use a thin Gouge
 Split from both Sides.
 Mark all cuts first on both sides before
 splitting.
 Always after making splits close up
 cuts & straighten up.

Hammer down on top to start to
 open up bottom



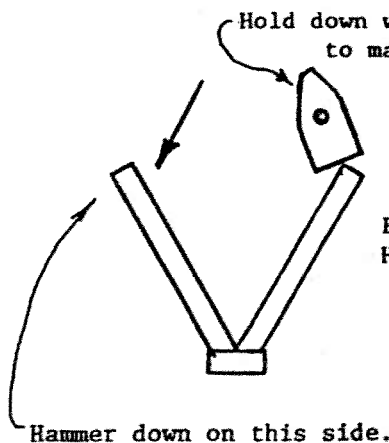
Make sure all cuts are clean &
 all the way through & even to
 the Ends.
 Open up to make even splits across
 bottom & top on the Middle Split.

Hammer up this part to
 top & make flat with Bar.



Bring Ends to a white heat &
 upset Ends about 1/2" on all 3 Arms.

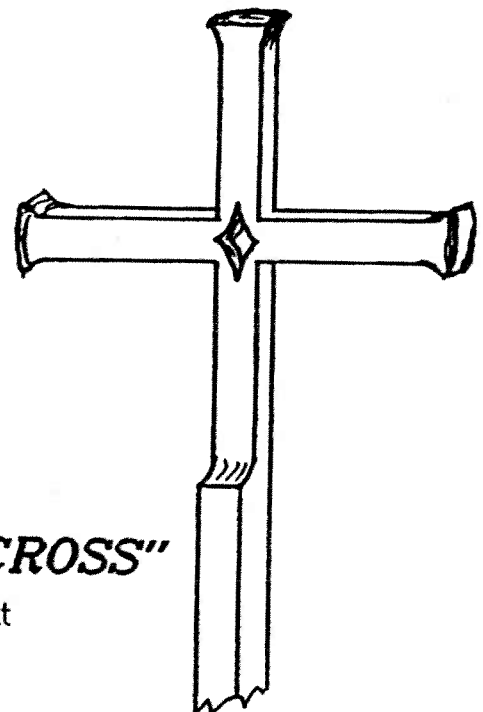
Spread open with a Hot-cut



Flatten the Cross & square up
 Hammer down ridge at splits.

"BLACKSMITH CROSS"

By Dwain Pruett



Calculations for figuring the Stock Length of Rings

(Inside Diameter + Stock Size) * 3.14

Inside Diameter	Radius	Stock Size								
		1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	
1/2	1/4	1.96	2.35	2.75	3.14	3.53	3.93	4.32	4.71	5.10
3/4	3/8	2.75	3.14	3.53	3.93	4.32	4.71	5.10	5.50	5.89
1	1/2	3.53	3.93	4.32	4.71	5.10	5.50	5.89	6.28	6.67
1 1/2	3/4	5.10	5.50	5.89	6.28	6.67	7.07	7.46	7.85	8.24
2	1	6.67	7.07	7.46	7.85	8.24	8.64	9.03	9.42	9.81
2 1/2	1 1/4	8.24	8.64	9.03	9.42	9.81	10.21	10.60	10.99	11.38
3	1 1/2	9.81	10.21	10.60	10.99	11.38	11.78	12.17	12.56	12.95
3 1/2	1 3/4	11.38	11.78	12.17	12.56	12.95	13.35	13.74	14.13	14.52
4	2	12.95	13.35	13.74	14.13	14.52	14.92	15.31	15.70	16.09
4 1/2	2 1/4	14.52	14.92	15.31	15.70	16.09	16.49	16.88	17.27	17.66
5	2 1/2	16.09	16.49	16.88	17.27	17.66	18.06	18.45	18.84	19.23
5 1/2	2 3/4	17.66	18.06	18.45	18.84	19.23	19.63	20.02	20.41	20.80
6	3	19.23	19.63	20.02	20.41	20.80	21.20	21.59	21.98	22.37
6 1/2	3 1/4	20.80	21.20	21.59	21.98	22.37	22.77	23.16	23.55	23.94
7	3 1/2	22.37	22.77	23.16	23.55	23.94	24.34	24.73	25.12	25.51
7 1/2	3 3/4	23.94	24.34	24.73	25.12	25.51	25.91	26.30	26.69	27.08
8	4	25.51	25.91	26.30	26.69	27.08	27.48	27.87	28.26	28.65
8 1/2	4 1/4	27.08	27.48	27.87	28.26	28.65	29.05	29.44	29.83	30.22
9	4 1/2	28.65	29.05	29.44	29.83	30.22	30.62	31.01	31.40	31.79
9 1/2	4 3/4	30.22	30.62	31.01	31.40	31.79	32.19	32.58	32.97	33.36
10	5	31.79	32.19	32.58	32.97	33.36	33.76	34.15	34.54	34.93
10 1/2	5 1/4	33.36	33.76	34.15	34.54	34.93	35.33	35.72	36.11	36.50
11	5 1/2	34.93	35.33	35.72	36.11	36.50	36.90	37.29	37.68	38.07
11 1/2	5 3/4	36.50	36.90	37.29	37.68	38.07	38.47	38.86	39.25	39.64
12	6	38.07	38.47	38.86	39.25	39.64	40.04	40.43	40.82	41.21
12 1/2	6 1/4	39.64	40.04	40.43	40.82	41.21	41.61	42.00	42.39	42.78
13	6 1/2	41.21	41.61	42.00	42.39	42.78	43.18	43.57	43.96	44.35
13 1/2	6 3/4	42.78	43.18	43.57	43.96	44.35	44.75	45.14	45.53	45.92
14	7	44.35	44.75	45.14	45.53	45.92	46.32	46.71	47.10	47.49
14 1/2	7 1/4	45.92	46.32	46.71	47.10	47.49	47.89	48.28	48.67	49.06
15	7 1/2	47.49	47.89	48.28	48.67	49.06	49.46	49.85	50.24	50.63
15 1/2	7 3/4	49.06	49.46	49.85	50.24	50.63	51.03	51.42	51.81	52.20
16	8	50.63	51.03	51.42	51.81	52.20	52.60	52.99	53.38	53.77
16 1/2	8 1/4	52.20	52.60	52.99	53.38	53.77	54.17	54.56	54.95	55.34
17	8 1/2	53.77	54.17	54.56	54.95	55.34	55.74	56.13	56.52	56.91
17 1/2	8 3/4	55.34	55.74	56.13	56.52	56.91	57.31	57.70	58.09	58.48
18	9	56.91	57.31	57.70	58.09	58.48	58.88	59.27	59.66	60.05
18 1/2	9 1/4	58.48	58.88	59.27	59.66	60.05	60.45	60.84	61.23	61.62
19	9 1/2	60.05	60.45	60.84	61.23	61.62	62.02	62.41	62.80	63.19
19 1/2	9 3/4	61.62	62.02	62.41	62.80	63.19	63.59	63.98	64.37	64.76
20	10	63.19	63.59	63.98	64.37	64.76	65.16	65.55	65.94	66.33
20 1/2	10 1/4	64.76	65.16	65.55	65.94	66.33	66.73	67.12	67.51	67.90
21	10 1/2	66.33	66.73	67.12	67.51	67.90	68.30	68.69	69.08	69.47
21 1/2	10 3/4	67.90	68.30	68.69	69.08	69.47	69.87	70.26	70.65	71.04
22	11	69.47	69.87	70.26	70.65	71.04	71.44	71.83	72.22	72.61
22 1/2	11 1/4	71.04	71.44	71.83	72.22	72.61	73.01	73.40	73.79	74.18
23	11 1/2	72.61	73.01	73.40	73.79	74.18	74.58	74.97	75.36	75.75
23 1/2	11 3/4	74.18	74.58	74.97	75.36	75.75	76.15	76.54	76.93	77.32
24	12	75.75	76.15	76.54	76.93	77.32	77.72	78.11	78.50	78.89
24 1/2	12 1/4	77.32	77.72	78.11	78.50	78.89	79.29	79.68	80.07	80.46
25	12 1/2	78.89	79.29	79.68	80.07	80.46	80.86	81.25	81.64	82.03
25 1/2	12 3/4	80.46	80.86	81.25	81.64	82.03	82.43	82.82	83.21	83.60
26	13	82.03	82.43	82.82	83.21	83.60	84.00	84.39	84.78	85.17
26 1/2	13 1/4	83.60	84.00	84.39	84.78	85.17	85.57	85.96	86.35	86.74
27	13 1/2	85.17	85.57	85.96	86.35	86.74	87.14	87.53	87.92	88.31
27 1/2	13 3/4	86.74	87.14	87.53	87.92	88.31	88.71	89.10	89.49	89.88
28	14	88.31	88.71	89.10	89.49	89.88	90.28	90.67	91.06	91.45
28 1/2	14 1/4	89.88	90.28	90.67	91.06	91.45	91.85	92.24	92.63	93.02
29	14 1/2	91.45	91.85	92.24	92.63	93.02	93.42	93.81	94.20	94.59
29 1/2	14 3/4	93.02	93.42	93.81	94.20	94.59	94.99	95.38	95.77	96.16
30	15	94.59	94.99	95.38	95.77	96.16	96.56	96.95	97.34	97.73
30 1/2	15 1/4	96.16	96.56	96.95	97.34	97.73	98.13	98.52	98.91	99.30
31	15 1/2	97.73	98.13	98.52	98.91	99.30	99.70	100.09	100.48	100.87

Editor's Note:

I made this chart to keep in my shop so I wouldn't have to do the math when making rings.

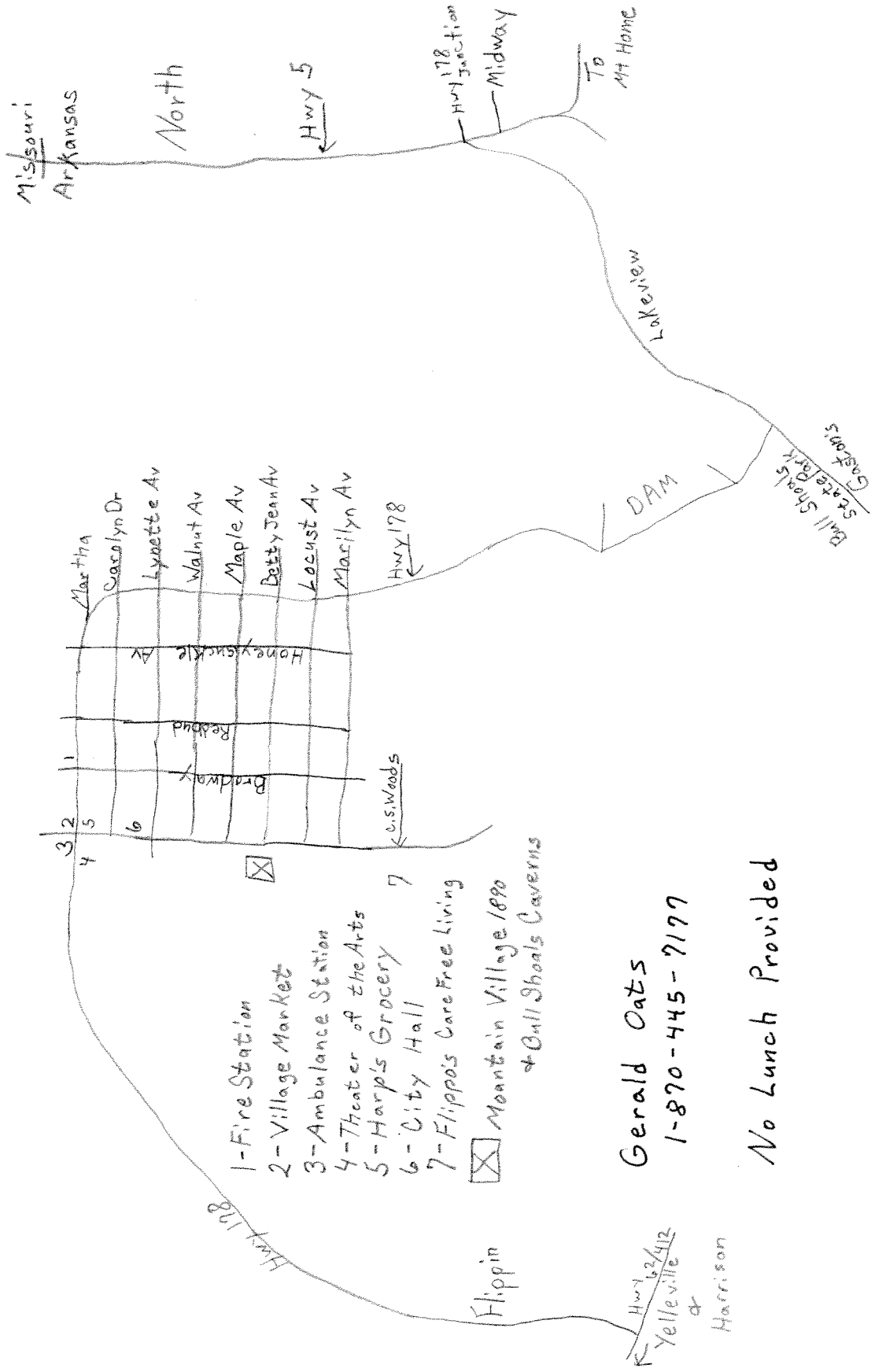
If your ring doesn't hit one of the dimensions listed you can make some simple adjustments.

For an additional:
 1/4" diam. add 3/4"
 1/8" diam. add 3/8"
 to the stock.

I couldn't figure out how to convert to simple fractions 1/2, 1/4, 1/8, 1/16. I'm sure a macro would be required. But decimal mode is pretty easy to work with.

Bob Ehrenberger

Mountain Village 1890 and Bull Shoals Caverns



Gerald Oats
1-870-445-7177

No Lunch Provided

Directions from Harrison to Mountain Village 1890:

From Hwy 62 to Hwy 412 - Turn left onto 178 for appr. 14 miles to Bull Shoals. Once you reach Harp's Food Store, turn right onto C.S. Woods for .3 miles and reach Mountain Village 1890 on right.

Directions from Mountain Home:

Hwy 62 thru town to the junction of 62 and 5, at stop light, go right on 5 to Midway; turn left on Hwy 178, continue thru Lakeview, cross the dam, then follow map.

or

go .8 mile to sign on left at Betty Jean Av., turn left & go until street runs into Mountain Village.

or

go 1½ mile around on 178 & turn left on C.S. Woods by Harp's Grocery, go .3 mile to Mountain Village.

NEA CHAPTER

Date: Friday, December 20, 2013 6:55 PM

From: Glenn Owen <forgeontheridge@yahoo.com>

To: boa-editor@suddenlink.net <boa-editor@suddenlink.net>

Subject: Dec meeting

We had a very good meeting with 10 in attendance. We had 5 join up Pat Vickers and his son and 3 nephews. Our next meeting will be on the 18th of December from 8 till 2 at my shop in Jonesboro. We are going to try to do some glass inlay so come on out look forward to seeing everyone.

Thanks, Glenn Owen
Steward NEA chapter

Overheard and Other Stuff

by

Harold and Ron



Mr. Wells, I'm living in the neighborhood temporarily and wonder if I might borrow two pieces of coal?



Name: _____

Address: _____

City: _____

State: _____ Zip/PC: _____

Country: _____

Type of Membership

- Regular \$55 Overseas \$65
- Student \$45 Contributing \$100
- Senior (65+) .. \$50 Library \$45

\$5 discount for two year memberships and renewals

ABANA Chaper Affiliation: _____

Application may also be made at the ABANA web site:

www.abana.org

E-mail: _____

www url: _____

Phone: _____

Fax: _____

Credit Card Information

- Visa Mastercard
- Expiration Date: _____

Card# _____

Submit check, money order (US banks only), or by credit card:

Artist-Blacksmith's Association of North America, Inc.
259 Muddy Fork Road
Jonesborough, Tennessee 37659

Phone: 423-913-1022, Fax: 423-913-1023
centraloffice@abana.org

BOA

Blacksmith's Organization of Arkansas Membership Application

Are you an ABANA { Artist Blacksmith's Association of North America } member? _____

NAME _____ Membership Dues: \$25.00
per year DUE in January *

ADDRESS _____

PRIMARY PHONE # _____
{ CELL OR LAND LINE }

E-MAIL _____

Are you interested in blacksmithing for a LIVING? _____
HOBBY? _____

Special areas of interest

KNIFE MAKING _____
GUNSMITHING _____
ARCHITECTURAL _____
RESTORATION _____
BUCK SKINNING _____
MEDIEVAL _____

BLACKSMITH ORGANIZATION of ARKANSAS

RON WELLS
HCR 32 BOX 141
MOUNT JUDEA, AR 72655

Or bring to the next meeting and give to

BOA membership is a family membership. For the payment of one membership dues all the members of a family would be afforded all the benefits and privileges of a full membership.

* If the dues are paid in the last three months { October, November, or December } of the year, membership is paid up for the following year.
If dues are not paid within the first three months { January, February, or March } of the year, the member is removed from the membership.

BLACKSMITH of ARKANSAS
124 BLUE CEDAR DR
BULL SHOALS, AR 72619

NWA P&DF 72701

TUE 31 DEC 2013 PM

