My New DNA Match with Nora Rosena Slane – A *Burks* Family Relative (Plus a Lot More Information About the *Burks* Family)

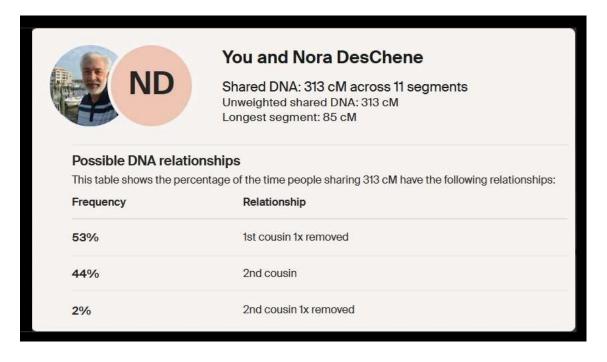
By Burks Oakley II 11 June 2024

A week or so ago, I was looking at my DNA matches on the Ancestry.com website. I simply looked at <u>all</u> my DNA matches, and by default, Ancestry.com showed them from largest to smallest. I thought I knew about all my close DNA matches, so I was surprised to see that I had a new large DNA match with a woman named Nora DesChene:



Nora and I share 313 cM of DNA, and based solely on the size of this match, our relationship could be in the second- to third-cousin range.

I'm not sure why Ancestry.com listed <u>this</u> range of relationships, since Ancestry also produced a table showing the likelihood of various relationships:

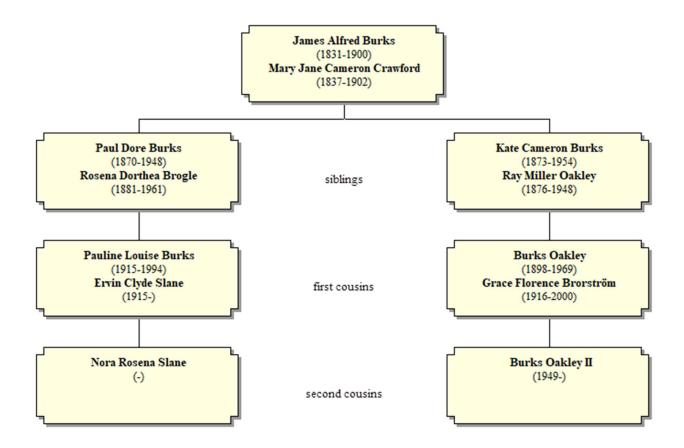


People who share 313 cM of DNA are 53% likely to be first-cousins onceremoved, and 44% likely to be second-cousins. Go figure.... I noted that Nora doesn't have a family tree on the Ancestry.com website. Fortunately, I already knew exactly who Nora was. This past April, I finally figured out the details of my DNA match on Ancestry.com with a woman having the username of *Heather hdeschene*. I learned that she was Heather DesChene, and she is my second-cousin once-removed. I wrote a narrative about our DNA match, and it is on my website at:

http://www.burksoakley.com/QuincyOakleyGenealogy/HeatherDesChene_14Apr24.pdf

In figuring out my relationship to Heather, I learned that her mother was Nora DesChene (née Slane). And now I found that I also have a DNA match with Nora!

Here is a chart showing how Nora and I are related:

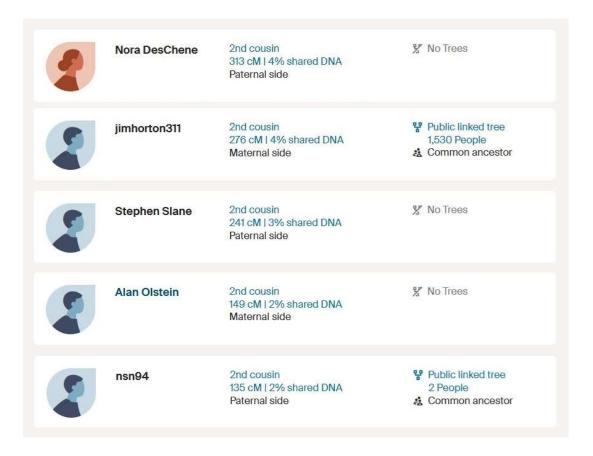


Nora and I both are great-grandchildren of James Alfred Burks (1831-1900) and his wife Mary Jane Cameron Crawford (1837-1902). Nora is descended from this couple through their son Paul Dore Burks (1870-1948), while I am descended from this couple through their daughter, Kate Cameron Burks (1873-1954). Based on this relationship chart, Nora and I are second-cousins. Note that software on Ancestry.com predicted that we had a 44% probability of being second-cousins based on the size of our DNA match (see table on previous page).

I should add that although my DNA match with Nora Slane is 313 cM, my DNA match with Heather's daughter is just 72 cM. This emphasizes the random ways in which autosomal DNA is inherited.¹

At this point, I wondered how the size of my DNA match with Nora (313 cM) compared with the size of my DNA matches with my other second-cousins. It turns out that I only have DNA matches on Ancestry.com with five second-cousins – here they are:

¹ One would expect Heather's DNA match with me to be one-half the size of her mother's; yet it is only one-quarter as large.



My DNA match with Nora (313 cM) is by far the largest of the five matches. The smallest match (135 cM) is with a man having the username of *nsn94*. His last name is *Severn* (I believe that his first name is Lloyd), and he is a great-grandson of James Alfred Burks and his wife Mary Jane Cameron Crawford. He is descended from this couple through their daughter Lola Lisle Burks (1867-1942) and Lola's daughter Mary Hettich (1900-1972).

In the chart above, Stephen Slane is a half-brother of Nora DesChene (née Slane), and he also is a great-grandson of the *Burks-Crawford* couple.

The other two people in this chart are Jim Horton and Alan Olstein, and they both are descended from my mother's paternal grandparents, Paulus Brorström (1859-1932) and his wife Bernhardin Wennström (1855-1932).

I was somewhat surprised that I didn't have more second-cousins – I'll come back to that later in this narrative.

The chart showing my DNA matches with my second-cousins was created by editing the list of all my DNA matches. It turns out that a number of my first-cousins twice-removed also have DNA matches similar in size to my DNA matches with my second-cousins. For example, my DNA match with Amanda Mervin (325 cM) is quite similar in size to my DNA match with Nora DesChene (313 cM):



Amanda is a granddaughter of my first-cousin Ann Elizabeth Oakley Wright, and therefore Amanda is my first-cousin twice-removed.

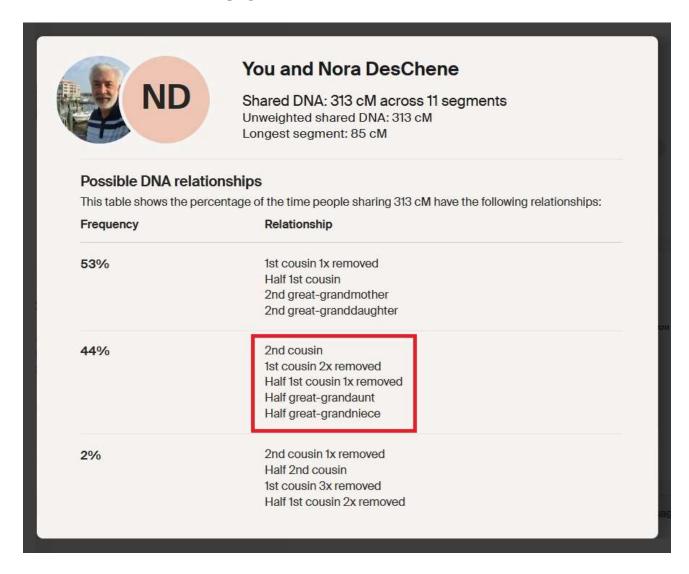
At the other end of the size range, my DNA match with David Eidem (246 cM) is similar in size to my DNA match with Stephen Slane (241 cM):



David is a grandson of my first-cousin Mary Cameron Oakley (1925-2007), and therefore David is my first-cousin twice-removed.

In all, I have DNA matches with eight first-cousins twice-removed that overlap with my DNA matches with my five second-cousins. This seemed somewhat puzzling, so I looked into all this a little more.

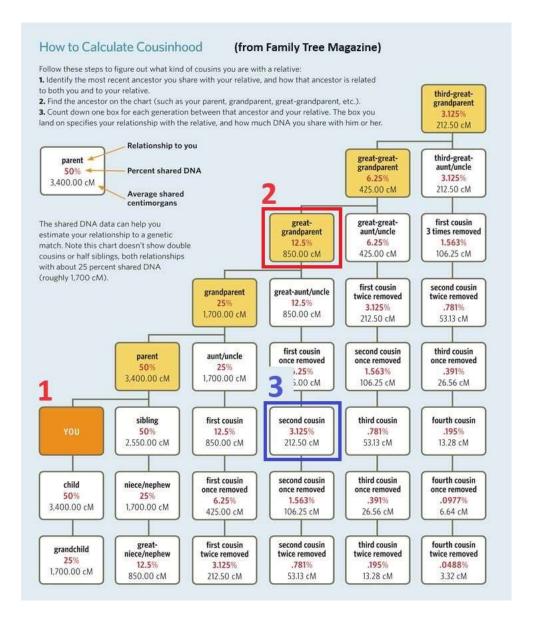
Note that I had edited the table with the probabilities of various relationships that I showed on the first page of this narrative. Here is the entire table:



Ancestry.com actually groups a number of different relationships together. For example, each of the relationships in the red box (above) has a 44% probability

of accounting for the DNA match. These relationships include second-cousin, first-cousin twice-removed, half first-cousin once-removed, half great-grandaunt, and half great-grandniece. Since these probabilities are based only on the size of the DNA match, this must mean that all five of these relationships would share a similar amount of DNA. I wondered why this would be so. I did a few online searches and finally figured it all out.

As a young boy, my first-cousin once-removed Tim Oakley always wanted to know how I calculated cousin relationships, so I'm including the following chart for him:

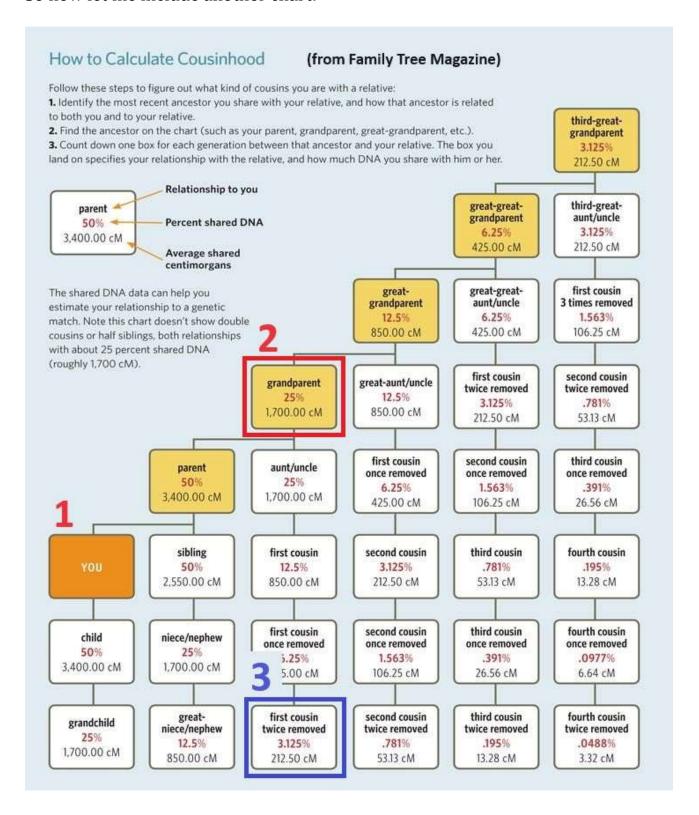


Each of the boxes in this chart represents a different person having a different relationship with the main person. One can start in the orange "YOU" box at the left (marked with a red 1) – this is the base person – everyone else is a relative. Head "northeast" of the YOU box to a parent, a grandparent, and then a great-grandparent (red box with a 2). The numbers in this box show that a person shares about 12.5% of his/her DNA with each great-grandparent – this is about 850 cM.

Then go "south" (straight down) from the great-grandparent to a great-aunt/uncle, to a first-cousin once-removed, and finally to a second-cousin (blue box with a 3). The numbers in this box show that a person shares about 3.125% of his/her DNA with a second-cousin – this is about 212.5 cM.

Note that the second-cousin (box 3) is in the SAME generation as the YOU (or base) person.

So now let me include another chart:

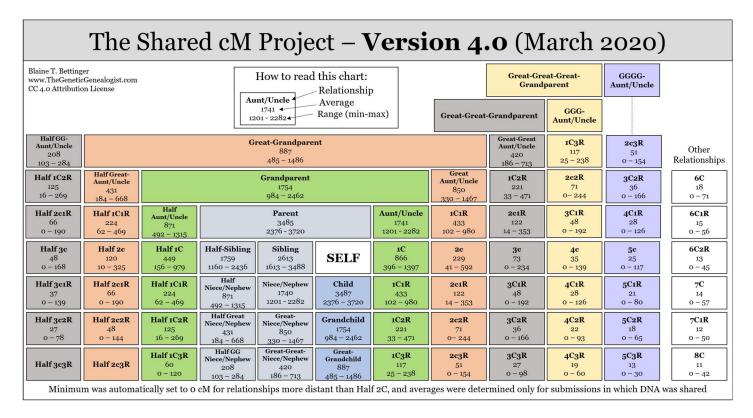


Once again, each of the boxes in this chart represents a different person having a different relationship. One can start in the orange YOU box at the left (marked with a red 1) – this is the base person – everyone else is a relative.

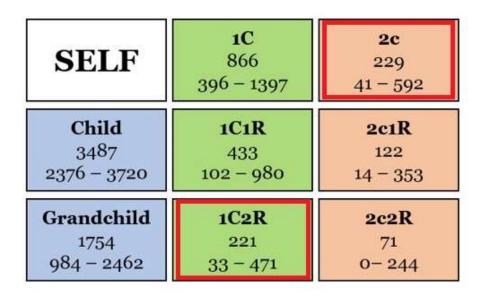
Then head "northeast" to a parent and then a grandparent (red box with a 2). Then go "south" (straight down) from the grandparent to an aunt/uncle, to a first-cousin, to a first-cousin once-removed, and then to a first-cousin twice-removed (blue box with a 3). The numbers associated with his person show that a person shares about 3.125% of his/her DNA with a first-cousin twice-removed – this is about 212.5 cM.

Son of a gun! This 3.125% (or 212.5 cM) figure for a first-cousin twice-removed is exactly the same as the 3.125% (or 212.5 cM) figure for a second-cousin. This explains why the software on Ancestry.com suggests several possible relationships for two people based solely on the size of their DNA match.

Of course, the inheritance of autosomal DNA is inherently random, so the theoretical numbers in the charts shown on the previous page have considerable variability in the real world. In 2020, the noted genetic genealogist Blaine T. Bettinger published the results of his study characterizing the amount of DNA shared between people having known relationships. His results are summarized in the following chart:



Here is the relevant part of this chart:



Each cell in the chart shows the relationship between the two people, the average amount of shared DNA, and the range of shared DNA observed. For second-cousins (2C), the average amount of shared DNA is 229 cM, with a range of 41-592 cM. For first-cousins twice-removed (1C2R), the average is 221 and the range is 33-471 cM. It is clear that based only on a 225 cM DNA match, one couldn't determine if two people were second-cousins or first-cousins twice-removed.

All of this helps to explain how <u>my</u> DNA matches with second-cousins overlap my matches with first-cousins twice-removed. One last really good example of this is shown in the following DNA matches:

| Allen C | 1st cousin 2x removed 173 cM 2% shared DNA Paternal side | Public linked tree 1 person |
|---------|--|---|
| Alan O | 2nd cousin 149 cM 2% shared DNA Maternal side | ⅓ No Trees |
| Mary E | 1st cousin 2x removed 140 cM 2% shared DNA Paternal side | Public linked tree 5 People |
| nsn94 | 2nd cousin 135 cM 2% shared DNA Paternal side | Public linked tree 2 People Common ancestor |

These are consecutive matches from my list of DNA matches on Ancestry.com. Allen Oakley is a grandson of my first-cousin Peter A. Oakley, while Mary Bowers is a granddaughter of my first-cousin Mary Cameron Oakley. And I mentioned my second-cousins Alan Olstein and *nsn94* previously. Note that my relationship with each of the four people in this table switches from 1C2R to 2C to 1C2R to 2C.

I wonder if this holds for my other relatives who have given me permission to view their DNA matches on Ancestry.com:

Hal Oakley – Unfortunately, Hal doesn't appear to be old enough to have any first-cousins twice-removed (who have their DNA on Ancestry.com).

Mark Eidem – Mark doesn't have any DNA matches on Ancestry.com with descendants of his grandparents – so there is no possibility of having any first-cousins twice-removed.

Tim Oakley – Tim doesn't have a family tree on Ancestry.com, so none of his DNA matches are associated with a known relationship.

Darn! Sorry – I tried.

Let me now switch gears and show why I have second-cousins on the *Burks* side of my family tree. As I have written before, software on the Ancestry.com website automatically creates a chart showing all a person's DNA matches with descendants of a given ancestor. These charts are called ThruLines®, and Ancestry.com creates these charts for all a person's ancestors, back to their 128 fifth-great grandparents. I now will show a number of ThruLines® charts going back to James Alfred Burks. Let me state up-front that the ThruLines® charts going back to his wife, Mary Jane Cameron Crawford, are identical to his. So while I am showing HIS ThruLines® charts, hers are identical.

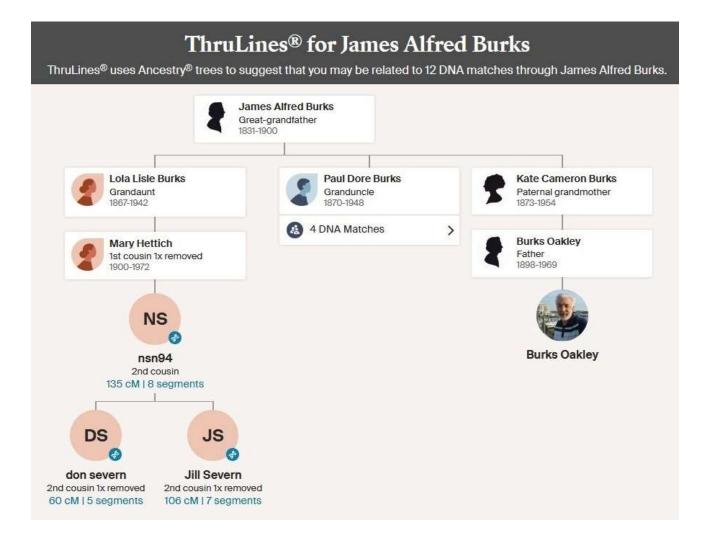
Here is my ThruLines® chart for my second-great grandfather, James Alfred Burks:



This chart shows that I have twelve DNA matches with descendants of James Alfred Burks. These matches connect back to James Alfred Burks through his daughter Lola Lisle Burks, his son Paul Dore Burks, and his daughter Kate Cameron Burks.

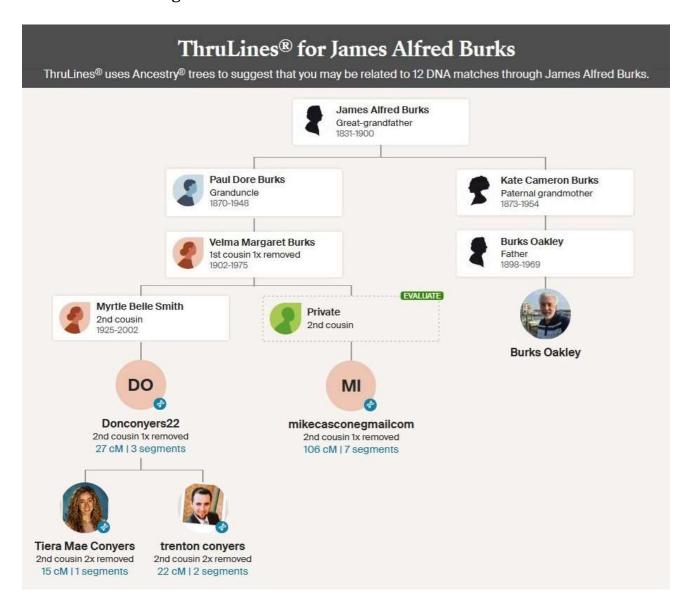
Since it would be extremely awkward to show the ancestral lines to all twelve of my DNA matches in a single chart, the ThruLines® chart is initially displayed with all lines "closed".

Opening the line at the left gives:



The left part of the ThruLines® chart shows that I have DNA matches with Lola's grandson *nsn94* (who I believe is Lloyd Severn) and his two children, Don Severn and Jill Severn. Note that *nsn94* and I are both in the same generation; we both are great-grandsons of James Alfred Burks. And that, of course, makes us second-cousins.

Here is the center part of the ThruLines® chart, which connects back to James Alfred Burks through his son Paul Dore Burks:



This chart shows that I have four DNA matches with descendants of Paul Dore Burks. These matches are with Don Conyers and his children Tiera Mae Conyers and Trenton Conyers, and with Mike Cascone. This chart shows that I have two second-cousins in this branch of the family tree – Myrtle Belle Smith and the (unknown) father of Mike Cascone.

Switching to a different part of my family tree, here is my ThruLines® chart for my other paternal great-grandfather, Aaron Burr Oakley:

ThruLines® for Aaron Burr Oakley ThruLines® uses Ancestry® trees to suggest that you may be related to 5 DNA matches through Aaron Burr Oakley. Aaron Burr Oakley Great-grandfather 1835-1906 Ray Miller Oakley Paternal grandfather 1876-1948 1876-1948 Burks Oakley Father 1898-1999 Burks Oakley

Wow! My ThruLines® chart for ABO is very different than my ThruLines® chart for James Alfred Burks. Aaron's only child was Ray Miller Oakley.² Since Ray didn't have any siblings, my father didn't have any first-cousins on the *Oakley* side of his family. Of course, this means that I don't have any second-cousins on this side of the family.

Summary

In this rambling narrative, I discussed my new DNA match with my second-cousin, Nora Rosena Slane (married name DesChene). My DNA match with Nora is 313 cM, and it is my fourteenth-largest DNA match on the Ancestry.com website. Nora and I are both great-grandchildren of James Alfred Burks and his wife Mary Jane Cameron Crawford. Even though Nora doesn't have a family tree on Ancestry.com, I was able to figure out our relationship based on my previous research into my DNA match with Nora's daughter, Heather DesChene.

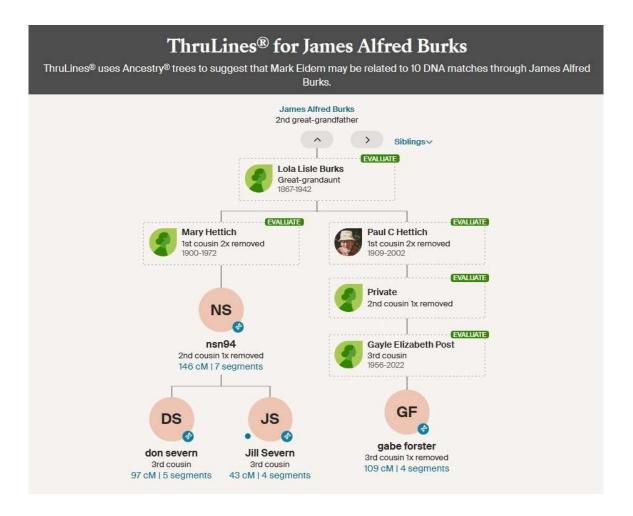
I also discussed how my DNA matches with my second-cousins are similar in size to my matches with my first-cousins twice-removed. And that led to a lengthy discussion of all this terminology.

Finally, I looked at the ThruLines® charts for James Alfred Burks and showed how other DNA relatives fit into the *Burks* part of our family tree. I also showed the ThruLines® chart for Aaron Burr Oakley, which explains why I don't have any second-cousins on the *Oakley* side of my family.

 $^{^2}$ Aaron Burr Oakley and his wife Hannah Mariah Miller had a son Charles William Oakley in 1866; Charles died at the age of two weeks. Ray Miller Oakley was born more than ten years later.

Addendum 1:

Mark Eidem is my first-cousin once-removed; he is the son of my first-cousin Mary Cameron Oakley. Here is one branch of his ThruLines® chart for James Alfred Burks:



This branch shows Mark's DNA matches that connect back to James Alfred Burks through his daughter Lola Lisle Burks. Mark has a line at the right of this chart that I don't have; it connects from Gabe Forster back through his greatgrandfather Paul Clifford Hettich to James Alfred Burks. This line goes through Gabe's mother, Gayle Elizabeth Post. Gayle was a granddaughter of Paul Hettich.

Mark and I have DNA matches with Rebecca Post, who also is a granddaughter of Paul Hettich. Unfortunately, Rebecca just has her father, Joseph William Post III (1920-2009) in her family tree. But Gabe Forster's tree shows that his maternal grandfather was Joseph W. Post, so that means that Gayle and Rebecca are sisters.

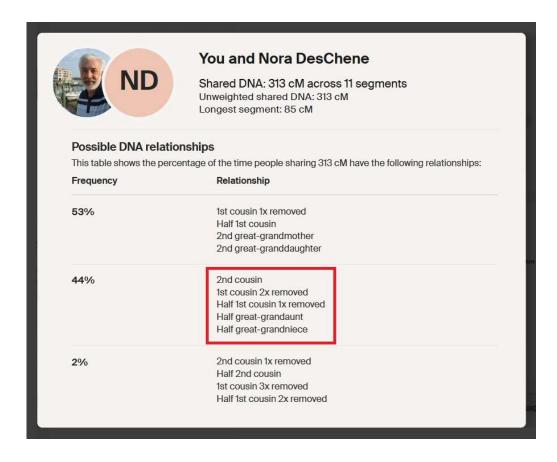
I note that my first-cousin once-removed Hal Oakley also has a DNA match with Gabe Forster, and Hal and Gabe have a huge number of Shared DNA Matches with other *Burks* family members. Oh, and my 1C1R Tim Oakley also has a DNA match with Gabe Forster.

As an aside, I remember driving my mother to visit Paul Hettich at his home in Big Sur, California, around 1977. I was doing a post-doctoral fellowship at the University of California San Francisco at the time. I mentioned this in an earlier narrative about my DNA matches with descendants of James Alfred Burks:

http://www.burksoakley.com/QuincyOakleyGenealogy/38-Descendants-of-JamesABurks.pdf

Addendum 2:

Recall that I showed the following table in this narrative:



I found some charts showing how the average amount of DNA shared by secondcousins would be very similar to the average amount of DNA shared by firstcousins twice-removed. Note that there are several other possibilities in the table shown above. For completeness, here is what Bettinger found in his study of the amount of DNA shared by people of known genealogical relationships:

Half 1C1R 224 62 – 469 Half GG-Aunt/Uncle 208 103 – 284 Half GG Niece/Nephew 208 103 – 284

Again, these values overlap with the values for 2C and 1C2R.

I'll leave it up to Cousin Tim to find a diagram showing what a half great-grandaunt is...

Addendum 3:

James Alfred Burks and his wife Mary Jane Cameron Crawford actually had nine children. The first three all died young:

- Anna Laurie Burks (1857-1859)
- Frank Oscar Burks (1860-1865)
- Charles Terhune Burks (1863-1864)

Their next five children were:

- Maude Dehiter Burks (1865-1926)
- Lola Lisle Burks (1867-1942)
- Paul Dore Burks (1870-1948)
- Kate Cameron Burks (1873-1954)
- Mary F. Burks (1877-1938)

Their last child also died very young:

• Marshall Connor Burks (1881-1882)

Maude D. Burks appears in 43 family trees on the Ancestry.com website, and none of these profiles include a husband or child. She died in 1926 in Oakland, California.

Our close family have DNA matches with descendants of Lola, Paul, and Kate.

Mary F. Burks appears in 61 family trees on the Ancestry.com website, and none of these profiles include a husband or child. She died in 1938 in Oakland, California.

It appears that sisters Maude and Mary remained single, and both lived in Oakland, California. Did they live in the same dwelling? I'm sure that someone in the family knows. Or maybe I wrote about this earlier...

Here is a photo of sisters Kate and Mary that I found on the Ancestry.com website:



Maude D. Burks appears in the 1900 US Census, living in Quincy, Illinois:

| | 1900 United States Federal Census for Maude Banks Illinois > Adams > Quincy Ward 05 > District 0136 | | | | |
|-----------------|--|--------|--------------|------------------|--|
| House Number | Number in Order of | Family | Name | Relation to Head | Race Sex Birth Month Birth Year Age Marital Years ChildreChildre Status Marrie Born Living |
| 911 | 70 | 46 | Burbo Partis | HERD | m m Capl 182030 2 |
| | | 13.10 | - Thang | mother | m 7 apl 89738 m 43 9 5 |
| 1757 | | | - marie | sister | m7 hm 877 22 2 |

She was living in her brother Paul's house at 911 Spring Street. Others in the household included James Alfred Burks and Mary Burks (Paul's parents), and Marie Burks (Paul's sister). Note that Mary's entry includes 9 children born and 5 children living.

The census entry also includes their occupations:

| Occupation | Month Not Emplo |
|-------------|-----------------------|
| Printer | 0 |
| Paralysed | |
| 1. 39 mil | |
| Book keeper | 0 |
| Compositor | 0 |

Paul was a printer, James Alfred Burks was paralyzed, Mary Jane Cameron Crawford Burks – illegible to me, Maude was a bookkeeper, and Marie (Mary) was a compositor. I didn't realize that James A. Burks was paralyzed – but he must have been in poor health, since he died in November 1900, just a few months after the census was taken.

Maude D. Burks appears in the 1910 US Census:

Maude D Burks in the 1910 United States Federal Census

| Name: | Maude D Burks [Maud D Burks] | | |
|----------------------------|---|---------|--|
| Age in 1910: | 45 | | |
| Birth Year: | abt 1865 | | |
| Birthplace: | Illinois | | |
| Home in 1910: | Bowling Green Ward 1, Pike, Missouri | | |
| Race: | White | | |
| Gender: | Female | | |
| Relation to Head of House: | Sister-in-law (Sister) | | |
| Marital Status: | Single | | |
| Father's Birthplace: | Kentucky | | |
| Mother's Birthplace: | Virginia | | |
| Neighbors: | View others on page | | |
| Household Members: | Name | Age | |
| | Jno Hettich | 54 | |
| | Lola Hettich | 43 | |
| | Jno Hettich | 13 | |
| | Mary Hettich | 10 | |
| | David Hettich | 7 | |
| | Paul Hettich | [11/12] | |
| | Maude D Burks | 45 | |

Maude was living in Bowling Green, Missouri, with her younger sister Lola, and Lola's husband Johan "John" Hettich and their children.

Maude also appears in the 1920 US Census:

Maude D Burks in the 1920 United States Federal Census

| Name: | Maude D Burks [Maude B Burks] | |
|----------------------------|----------------------------------|-----|
| Age: | 54 | |
| Birth Year: | abt 1866 | |
| Birthplace: | Illinois | |
| Home in 1920: | Coronado, San Diego, California | |
| Street: | 8th St | |
| House Number: | 1000 | |
| Race: | White | |
| Gender: | Female | |
| Relation to Head of House: | Head | |
| Marital Status: | Single | |
| Father's Birthplace: | Kentucky | |
| Mother's Birthplace: | Virginia | |
| Able to Speak English: | Yes | |
| Occupation: | None | |
| Home Owned or Rented: | Rent | |
| Able to Read: | Yes | |
| Able to Write: | Yes | |
| Household Members: | Name | Age |
| | Maude D Burks | 54 |
| | David Hettich | 17 |

She was living in Coronado, California. Interestingly, her 17-year-old nephew, David Hettich (Lola's son), was living with her. Note that she was 54 years old and was not employed.

Maude died in 1926 in Oakland, California.

As mentioned above, Mary (Marie) appears in the 1900 US Census, living at her brother Paul's house on Spring Street in Quincy, Illinois:

| Name | Marie Banks |
|--|--------------------------------|
| Age | |
| Birth Date | Nov 1877 |
| Birthplace | Iowa, USA |
| Home in 1900 | Quincy Ward 5, Adams, Illinois |
| Ward of City | |
| Street | Spring Street |
| House Number | 90 |
| Sheet Number | 2 |
| Number of Dwelling in Order of Visitation | 38 40 |
| Family Number | 46 |
| Race | White |
| Gender | Female |
| Relation to Head of House | Sister |
| Marital Status | Single |
| Father's Name | James Banks |
| Father's Birthplace | Kentucky, USA |
| Mother's Name | Mary Banks |
| Mother's Birthplace | West Virginia, USA |
| Occupation | Compositor |
| Months Not Employed | 0 |
| Can Read | Υ |
| Can Write | Y |
| Can Speak English | Υ |
| Neighbors | View others on page |
| Household members | |
| Name | Age |
| James Banks | 69 |
| Mary Banks | |
| Maude Banks | 35 |
| Paul Banks | 30 |
| Marie Banks | 22 |
| | |

Note that the automated transcription on Ancestry.com lists the family name as *Banks*.

I was not able to find any additional information about Mary Burks, other than her death in 1938 in Oakland, California.

I wrote above that in the 1900 US Census, the *Burks* family was living in Quincy. Paul Burks was the head of the household, and others in the family included Paul's sisters Maude and Mary, as well as his parents James A. Burks and Mary Jane Cameron Crawford Burks.

Note that by 1900, Kate Cameron Burks had married Ray Miller Oakley, and of course, they also were living in Quincy. Here is their entry from the 1900 US Census:

| Name | Rm Oakley |
|--|--------------------------------|
| Age | 24 |
| Birth Date | Apr 1876 |
| Birthplace | Iowa, USA |
| Home in 1900 | Quincy Ward 5, Adams, Illinois |
| Ward of City | 5 |
| Street | North 12th Street |
| House Number | 224 |
| Sheet Number | 4 |
| Number of Dwelling in Order of Visitation | 57 58 |
| Family Number | 67 |
| Race | White |
| Gender | Male |
| Relation to Head of House | Head |
| Marital Status | Married |
| Spouse's Name | Kate C Oakley |
| Marriage Year | 1897 |
| Years Married | 3 |
| Father's Birthplace | Connecticut, USA |
| Mother's Birthplace | Illinois, USA |
| Occupation | Bookkeeper |
| Months Not Employed | 0 |
| Can Read | Υ |
| Can Write | Υ |
| Can Speak English | Υ |
| House Owned or Rented | Rent |
| Farm or House | Н |
| Household members | |
| Name | Age |
| Kate C Oakley | |
| Rm Oakley | 24 |
| Mary Behnen | 16 |
| Robt Burks Oakley | 7 |

Ray and Kate were living in a rented house (or apartment) on North 12th St. Ray's occupation was listed as Bookkeeper (at the Quincy *Daily Herald*). My father, Burks Oakley, was 2 years old by then – note that the census record shows that he was born in June 1898, but somehow Ancestry.com has his age as 7. In addition, my father is listed as Robert Burks Oakley – as a child, his nickname was Bobby. So the census-taker probably heard him called Bobby and created the name Robert Burks Oakley.

Also living in the household was Mary Behnen. She was 16 years old and her occupation was "servant". Interesting that Ray and Kate were living in a rental, but could afford to have a servant.

As an aside, Kate would have been pregnant with their daughter Elisabeth when the census was taken in 1900 – Ebby was born in December 1900.