

Acknowledgements

- Virginia McLemore
- Navid Mojtabai
- Amy Trivvit
- Bob Eveleth
- NM Bureau of Geology



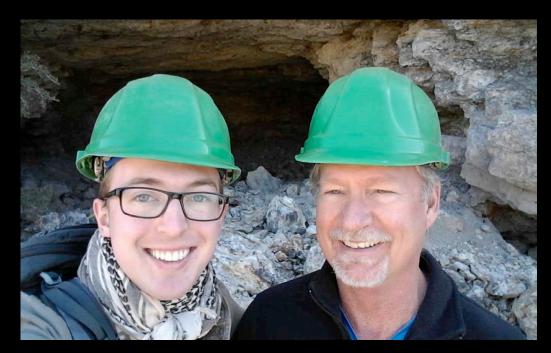
Personal Introduction

Ben Sears

- Mechanical Engineering Senior
- Jeweler
- Rockhound
- Amateur Historian







Objective

- Safety and remediation
- Potential future use
- History and archeology





<u>Historical Research : How To</u> <u>Why We Want Names</u>

The Reliability Puzzle

- Primary sources
- 19th century records compared to modern records

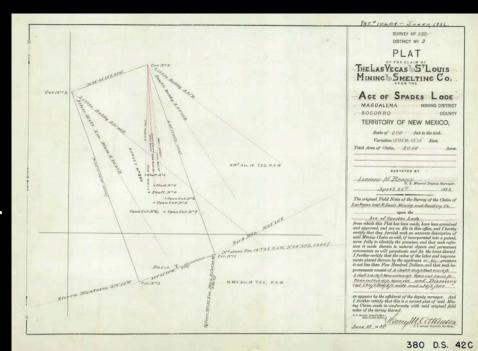
Reasons to Research

 Names give us records of underground workings, production, and even identify other mines

Field work crosschecks records and records crosscheck fieldwork

Legacy Mining Records

- Bob Eveleth
 - Curated our records room
- Leonard M Brown
 - Late 19th century surveyor
- Harrison Schmidt files





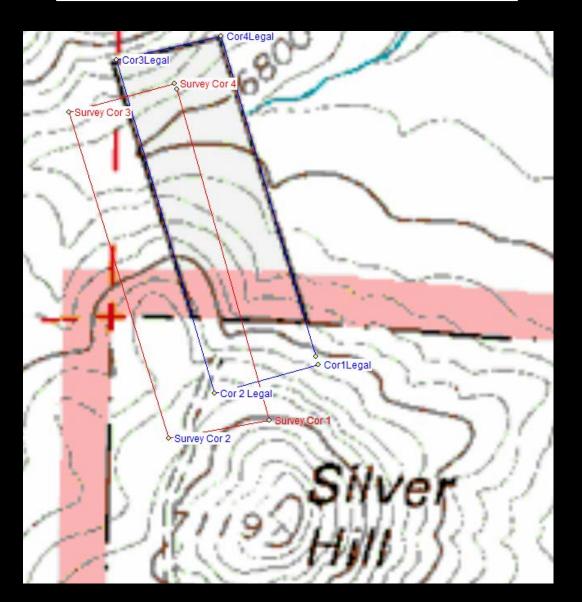
Socorro County Courthouse



An Example

- Ace of Spades Lode
 - Large 100 foot cut in survey notes
- Records discrepancy Silver Hill Monument
 - 19th century survey notes
 - Modern land ownership
- Sophia Lode discovery
 - Second larger cut, not in notes, likely from a later period

Ace of Spades Lode



Ex 69. 42 20 F. 600f Con. Nº 2. . MAGDALENA 6.W. + SEC. 18 T.25, R.4 W * Shaft Nº 2 * Shaft Nº 3 · Shaft No4 ~ Open Cut Nº8 * Open Cut Nº 5. Open Cut Non ~ Open Cut No7 No stone Sec. 19 T.2 S. R. 4 W. N 84' 30 E. 1545f Cor. Nº1 Sierra Montosas 5.76.22 W N. W. + SEC. 18 T.25. R. 4 W. Con Nº2 June 13 18 83

SURVEY Nº 380

DISTRICT Nº 2

PLAT

THELAS VECAS STLOUIS MINING SMELTING CO.

ACE OF SPADES

MINING DISTRICT

. SOCORRO

COUNTY

TERRITORY OF NEW MEXICO,

Scale of 200 feet to the inch.

Variation 12'03 to 13'15 East.

Total Area of Claim, 20.66

Acres.

SURVEYED BY

LEDNARD M. BROWN.
U. S. Mineral Deputy Surveyor.

April 27th

1883

The original Field Notes of the Survey of the Claim of Las Vegas and St Louis Mining and Smetting Ca.

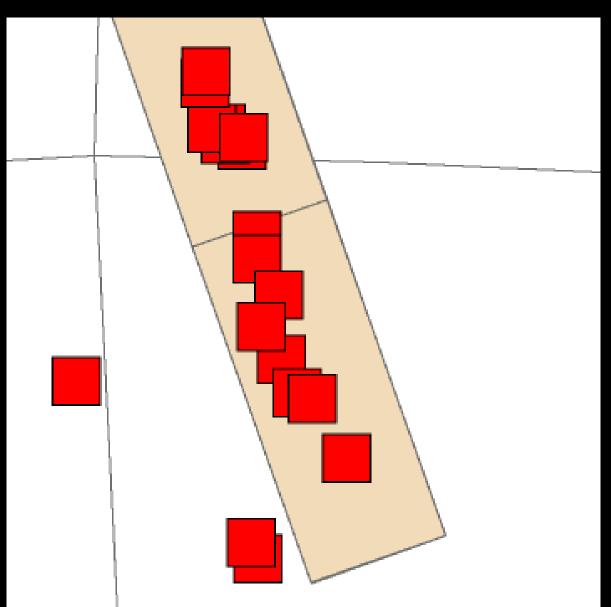
upon the

Ace of Spades Lude from which this Plat has been made, have been examined and approved, and are on file in this office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects and permanent monuments as will perpetuate and fix the locus thereof. I further certify that the value of the labor and improvements placed thereon by the applicant or his grantors is not less than Five Hundred Dollars, and that such improvements consist of A shaft 9 . II. 5 ft Shaft D x ZZ x G ft.

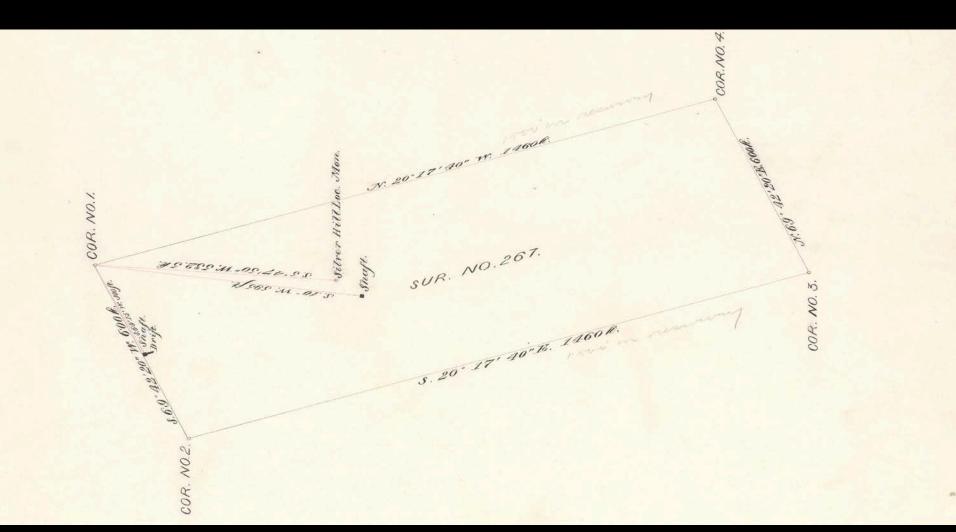
A shaft 6x6x26ft Open cuture suft Open cut 3x4xx2 ft. Open cuttion 27ft Open cut and Discovery cut Innftling 4ft. wide and a 28ft face

as appears by the affidavit of the deputy surveyor. And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof.

Field Locations



Sophia Lode



The Wrinkle: Mines Without Records

- East of Sophia
- Double shaft complex
- 40 ft and 80 ft deep
- Explosives shed
- Artifacts and tailings
- Absolutely no records



Questions?