Bristlecone Pines at timberline on the south flank of Mt. Bross looking south. Sheep Mountain is the peak in the upper right of the photograph.
D. Rectifying the GLO Policy

1. The Act of April 28, 1904 and the importance of original accessories. Does the Act give mineral survey corners special status?

2. Department of the Interior Land Decisions after the Act.
   a. Sinnott v. Jewett (33 L.D. 91)
   b. Drogheda & West Monroe Extension (33 L.D. 183)
      i. Revision of Paragraph 147 of the Mining Circular
      ii. Instructions issued to Colorado U.S. Deputy Mineral Surveyors
   c. United States Mining Co. v. Wall (39 L.D. 546)

Bristlecone Pines at timberline on the south flank of Mt. Bross looking northwest.
The Mining Reporter Articles 1903 - 1904

- Records Vs. Monuments - December 10, 1903
- The Groves Case - December 24, 1903
- Land Office Rulings In Patent Cases - January 14, 1904
- Land Office Ruling Of June 1899 - January 21, 1904
- The Effect Of The Land Office Rulings - January 28, 1904
- The Necessity Of Preserving Monuments In Good Condition February 4, 1904
- What The Government Is Actually Doing To Mineral Patents February 4, 1904
- The Standpoint Of The Deputy Mineral Surveyor - February 11, 1904

The Mining Reporter was a weekly trade journal published in Denver, CO. Beginning in late 1903 and continuing through the fall of 1904 a series of articles on the Binger Hermann policy were published in The Mining Reporter. The articles discussed many of the negative impacts of the policy. Two solutions were developed to end the General Land Office practice.

The first was an administrative attempt to end the policy by submitting a case to the GLO Commissioner that was so egregious that the Land Office would concede the folly of the policy. The second was to petition Congress to enact legislation that forced the GLO to terminate the policy.

Several articles published in The Mining Reporter are listed on this and the next slide. They are available in a separate PDF file with the course materials for those interested in reading period articles on the effects of the Binger Hermann policy.

Note: Cor. No. 3, King William Lode, Sur. No. 5387.
THE MINING REPORTER ARTICLES 1903 – 1904 (Cont.)

- Monuments Records And The Locus Of Mining Claims February 18, 1904
- Mine Monuments - March 24, 1904
- The New Mineral Law Relative To Patents - May 5, 1904
- Test Suit Brought To Secure Interpretation Of New Brooks Act - May 12, 1904
- Record v. Monument - August 25, 1904
- Surveying For Patent - October 6, 1904

Note: Cor. No. 1, Little Johnnie, No. 2, Sur. No. 15092 (also, Cor. No. 4, Little Johnnie No. 3, Sur. No. 17716).
An article that showed how the Binger Hermann policy had adversely affected the mining industry. Not only did the policy show erroneous positions for prior patented mining claims, those erroneous positions onto ground actually open to mineral entry precluded future entry to that ground.


Note: The “X” on the plat is an area in the SW ¼ of Sec. 4, T. 16 S., R. 69 W., 6th P.M. open to mineral entry that a mining claimant is interested in claiming under the U.S. Mining Laws.
Connected sheet of Sec. 4, T. 16 S., R. 69 W., 6th P.M. that shows the true positions of the mining claims and is the same as the sketch diagram on the previous page.
This sketch shows the patent description positions of the patented claims and are based upon an idealized section. In this scenario, the “X” is no longer located on open ground and the Land Office voided the unpatented lode claims staked to claim the area. Depicting the patent description positions in an idealized section created a “no man’s land” where it was impossible to secure the mineral rights to a valuable mineralized area south of Cripple Creek, CO.
Segregation diagram of Sec. 4, T. 16 S., R. 69 W., 6th P.M. that shows the patent description positions of the mining claims and is the same as the sketch diagram on the previous page.

Note: The lower left portion of the segregation diagram shows that it was prepared and amended by J.S.W. on Jan 23, 1902 a draughtsman in the Colorado Surveyor General office. A later 2nd amended segregation diagram of this section was made in August 1908.
**THE GROVES CASE**

The "mining men of the West" were determined to see the General Land Office policy overturned and mounted a two-prong attack to attain their goal. The Groves case was selected to be the administrative appeal case.

It was selected for its impact, both for the grievous error depicted on the Groves plat and the teary, emotional plight of the owner who was a mere miner's widow without means! It had all the elements of the Dudley Do-Right cartoon with the men of the Land Office playing the role of Snidely Whiplash and Alzina Dilley playing Nell, the damsel in distress. The Colorado Mine Operators’ Association (funding the effort) and the Colorado Society of United States Deputy Mineral Surveyors tag-teamed as the hero Dudley Do-Right. The mineral surveyor of the Groves Lode Claim was George R. DeNise who was President of the CSUSDMS. The deputy mineral surveyors banded together since as a group they could voice their displeasure at the GLO policy. As individual mineral surveyors, they were bound by their sworn duty to follow the GLO instructions.
The Groves case was published as a Christmas story on December 24, 1903 in *The Mining Reporter*. Mr. A.W. Warwick, the editor of *The Mining Reporter* concluded his article with, "Right and justice must prevail." Research of the Groves case unearthed a copy of the, "Brief and Argument of Applicant" and inside the back cover is a sticker with, "Compliments of Geo. R. DeNise, 306 E. & C. Bldg., Denver, Colo."

This case was worse than the Lucky Strike quasi-contest case as approx. 27,000 ft. of traverse was used by the GLO to show the relative positions of the Groves Lode to the W.C. Garlock Lode, when in reality they shared a common end line! The Exhibit A map shows the reason for the error in the position of the Silver Coin. The bearings in the original survey are magnetic, but reported as true bearings. Therefore, the Silver Coin was shown on the plat of the Groves Lode as if the bearings were true bearings!

Also, note that the surveyor showed the original accessories at the north end line of the Silver Coin on the Exhibit A map.
Cover page of the brief submitted to the General Land Office with the hope that the Land Office will overturn the Binger Hermann policy. Unfortunately, the GLO Commissioner was not able to rule on the case because a previous Department of the Interior land decision, Mono Fraction Lode Mining Claim (31 L.D. 121) was decided by Ethan Allen Hitchcock, the Secretary of the Department of the Interior. The case languished in the Secretary’s office leaving Congressional legislation as the only path to correct the, “evil foisted upon the mining industry.”
Sketch map submitted with the Groves brief showing the two positions of the Silver Coin Lode, Sur. No. 295.

The sketch used tracting to distinguish between the positions of the Silver Coin Lode and showed the positions of the original accessories at the north end line of the Silver Coin Lode.

Note: The position of the W.C. Garlock Lode, Sur. No. 5166, “as interpreted by the Department” with respect to the Groves Lode, Sur. No. 13739 is based on the 6200+ ft. connection between Cor. No. 1 of the W.C. Garlock Lode to the NW Cor., Sec. 4, T. 43 N., R. 4 W., New Mexico P.M., the record dimensions on the township subdivision plat (1882) from the NW Cor. Sec. 4 to the NE Cor. Sec. 16 and then 5200+ ft. to Cor. No. 1, Groves Lode. The computed connection of N. 16°18’ E., 345.3 ft. was therefore based on a combination of 27,000 ft. of traverse and record information! The amended survey of the Groves Lode showed that Cor. No. 4, W.C. Garlock as staked bears from Cor. No. 1, Groves Lode, N. 34°27’ W., 87.8 ft.
30 USC Sec. 34

TITLE 30 - MINERAL LANDS AND MINING

CHAPTER 2 - MINERAL LANDS & REGULATIONS IN GENERAL

Sec. 34. Description of vein claims on surveyed and unsurveyed lands; monuments on ground to govern conflicting calls

The description of vein or lode claims upon surveyed lands shall designate the location of the claims with reference to the lines of the public survey, but need not conform therewith; but where patents have been or shall be issued for claims upon unsurveyed lands, the Director of the Bureau of Land Management in extending the public survey, shall adjust the same to the boundaries of said patented claims so as in no case to interfere with or change the true location of such claims as they are officially established upon the ground.
Where patents have issued for mineral lands, those lands only shall be segregated and shall be deemed to be patented which are bounded by the lines actually marked, defined, and established upon the ground by the monuments of the official survey upon which the patent grant is based, and the Director of the Bureau of Land Management in executing subsequent patent surveys, whether upon surveyed or unsurveyed lands, shall be governed accordingly.

The said monuments shall at all times constitute the highest authority as to what land is patented, and in case of any conflict between the said monuments of such patented claims and the descriptions of said claims in the patents issued therefor the monuments on the ground shall govern, and erroneous or inconsistent descriptions or calls in the patent descriptions shall give way thereto.
Act of April 28, 1904 (Cont.)

Questions:

Does the Act grant mineral survey corners special status?

When the Act states that the monuments on the ground shall be the superior evidence of what ground was patented, should that include corners of senior claims?

For example, if the mineral survey field notes include a call to a senior line, does that mean that the monuments marking that senior line also control what ground has been patented?

If corners to senior claims are included, does that mean that corners to junior claims should be included in fixing the locus of the senior claim? Or should junior corners be regarded as witnessing the senior line, but not controlling it?
Questions (cont):

If the answer to the previous question is yes, should a monument of the junior mining claim that doesn’t reach the senior line (i.e. there is a gap between the junior and senior claims) be regarded as a closing corner?

Or should the call to the senior line be governed by the clause, "calls in the patent descriptions shall give way thereto" and, therefore, the junior corner as established by the U.S. Deputy Mineral Survey should be treated as a control corner of the senior claim’s boundary line?
Thankfully, this policy only lasted five years!

Binger Hermann’s resignation was accepted at the end of January 1903 after the DOI Secretary, Ethan Allen Hitchcock requested it early in 1902. On January 11, 1903, Thomas H. Tongue died. He had replaced Binger Hermann in 1897 as U.S. Congressman for the 1st Congressional District in Oregon.

Mr. Hermann reportedly won the special election to replace Mr. Tongue by posing next to Teddy Roosevelt during a campaign stop in Portland Oregon. At that moment, a photographer snapped a photo of the two men. Mr. Hermann circulated the photograph throughout his district to show voters that Teddy supported him. Ironically, Mr. Hermann voted on the Act of April 28, 1904 that rescinded his ill-conceived policy.

In 1905, he was indicted for accepting bribes during his tenure as GLO Commissioner. His alleged crimes were documented by S.A. Puter in, “Looters of the Public Domain”. In 1910, a jury failed to return a verdict and the case was dismissed.
The infamous photograph of President Roosevelt and his recently resigned Commissioner of the General Land Office from S.A. Puter’s book, “Looters of the Public Domain”, page 386. The sketch to the right is from page 62 of the same book.
Two situations must be dealt with separately to correct the problems created by the Binger Hermann Policy.

The first is the situation where there is a real conflict between two claims on the ground, but the theoretical positions show no conflict. This situation is dealt with in the Sinnott v. Jewett land decision.

The second is the situation where there is no real conflict between the two claims on the ground, but the theoretical positions do show a conflict (e.g. in the “expressly excepting and excluding” clause of the patent). This situation is dealt with in the Drogheda & West Monroe Extension land decision (included in Paragraph 147 revision of the Mining Circular).
The survey of a mining claim, whereby record conflicts with prior surveys are made to appear which are alleged to have no existence in fact, can be approved by the surveyor-general only when it is determined, agreeably to the principle of the case of Sinnott v. Jewett, what conflicts therewith, if any, must be recognized, and the conditions are shown accordingly.

BLM index card of the Drogheda and West Monroe Extension lode claims, Sur. No. 13654 showing that the mineral survey was never approved. The precise location of the two claims is not known except for references to the prior official surveys in some of the ten GLO Departmental letters issued for this case from March 26, 1901 through August 30, 1908 The case is also referenced as Quasi Contest No. 2028 in the GLO Departmental letters.

Note: The two lode claims were eventually abandoned with the only remaining evidence of their positions being the location certificates recorded by the Gilpin County Clerk and Recorder and the correspondence from the Colorado Surveyor General to the GLO Commissioner referenced in the GLO Departmental letters.
Connected sheet of the NW¼ of Sec. 14, T. 3 S., R. 73 W., 6th P.M. with the Nevadaville Townsite along the top of the drawing. From the information described in the Quasi Contest No. 2028 correspondence, the Drogheda and West Monroe Extension are most likely located along the southern boundary of the Nevadaville Townsite between the Indiana lode claims and the Monroe lode claims.
Close-up view of the connected sheet. The two claims are likely to the north and west of the Patches Lode, Sur. No. 20367.
DROGHEDA & WEST MONROE EXTENSION
PARAGRAPH 147 OF THE MINING CIRCULAR MODIFIED

If an official mineral survey has been made in the vicinity, within a reasonable distance, a further connecting line should be run to some corner thereof; and in like manner all conflicting surveys and locations should be so connected, and the corner with which connection is made in each case described. Such connections will be made, and conflicts shown according to the boundaries of the neighboring or conflicting claims as each is marked, defined, and actually established upon the ground. The mineral surveyor will fully and specifically state in his return how and by what visible evidence he was able to identify on the ground the several conflicting surveys and those which appear according to their returned tie or boundary lines to conflict, if they were so identified, and report errors or discrepancies found by him in any such surveys. In the survey of contiguous claims which constitute a consolidated group, where corners are common, bearings should be mentioned but once.
On August 18, 1904, the Colorado Surveyor General submitted draft circular instructions to the GLO Commissioner’s office in response to the revision to Paragraph 147 issued with the Drogheda and West Monroe Extension land decision. This GLO Departmental Letter “N” (Index No. 6967) issued on September 23, 1904 approved the draft with two changes.
The changes to the circular instructions were removal of the word, “absolutely” in the second paragraph and removal of the paragraph starting with “The section and quarter section in which the survey is located....”

Note: The paragraph to be omitted required mineral surveyors to report the actual positions of rectangular survey corners when evidence indicated that the field notes were in error. The Commissioner’s opinion was that it was not, “desirable that the locations of the corners of the subdivisional survey depend upon the reports of U.S. deputy mineral surveyors.”
The Departmental Letter “N” concludes with a statement that mineral surveyors shall make a thorough search of monuments of prior official surveys and if not, an additional examination should be required before approving the survey.
Excerpt from GLO Departmental Letter “N” indexed 6951, dated September 12, 1904. The survey referred to is of the Mars Hill, Friend in Need, Invincible No. 2, Bunker Hill, Golden Leaf, Golden Leaf No. 2 and New lodes, Sur. No. 16100 that is located west of Boulder, CO.

Note: The surveyor’s note was included in the field notes of Sur. No. 16100 prepared by U.S. Deputy Mineral Surveyor O.F. Shattuck and approved on January 3, 1903. The notation was not responded to until after Paragraph 147 of the mining regulations was amended on August 8, 1904 in compliance with the provisions of the Act of April 28, 1904.
Excerpts from *Circular Instructions To U.S. Deputy Mineral Surveyors For the District of Colorado*

[Amended Paragraph 147 of Mining Regulations] requires that all conflicting surveys shall be shown according to the boundaries as each is marked, defined and actually established upon the ground without regard to whether or not patents have issued for the claims in question; you will be required to determine in each case that the monuments of conflicting claims as found upon the ground are official monuments of the official surveys, or occupy the original positions of the same.

You will further be required in the field notes, when connections are given to a conflicting or neighboring survey, to state whether or not said connection is given to the position of the claim **as staked or as approved** by this office.

An additional note added at the end of the field notes, under heading "Report" will be required, stating:

1. How the lines of the survey, connections to conflicting surveys and to the corner of the public survey or U. S. Location Monument, were determined.
2. A description of the section corner or U. S. Location Monument to which connection is given in the field notes.
3. A full description of all corners of conflicting claims to which connections are given in the field notes, together with a statement of how and by what **visible evidence** you were able to identify the same as being the official monuments of the claim in question.
4. A statement showing how the courses and lengths of the intersecting boundary lines of conflicting surveys were determined.

The changes were made to the circular instructions and forwarded to the U.S. Deputy Mineral Surveyors for the District of Colorado at the end of September 1904.

Note: The instructions were also published under the title, “Surveying for Patent,” in *The Mining Reporter*, Vol. L, No. 14, October 6, 1904, pp. 346-347 with the following footnote, “This circular finally puts into force the regulation which does away with the establishment of the locus of the claim by tie to the section corner, especially when the claim under survey conflicts with another.”
The “Report” section required by the circular instructions issued by John F. Vivian at the end of September 1904 were appended to the end of the official field notes. Circa 1932, this section was renamed to “Other Corner Descriptions.”

This example of a “Report” section is from the official field notes of the Sun Flower No. 1 and Sun Flower No. 2 lodes, Sur. No. 17480 that was approved on January 24, 1905.

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1st — This survey was made by running line 2-3 of Sun Flower No. 2 lode and the end lines of each claim. Direct connection on the ground was made with Co. no. 1 and 4, Km. no. 571, Jang, Gneid lode, Co. no. 2, Km. no. 8413, Enterprise lode, Co. no. 4, Km. no. 976.1, Tanner Roy lode, Co. no. 1, Night Hawk lode and Co. no. 2, May Queen no. 4 lode, Co. no. 1 and 2 of Km. no. 2179. Three Arins lode have been carried away by snow slides. The corners of lines 2-3, Km. no. 8413, Enterprise lode, 1-2, 3-4, and 1-1, Night Hawk lode and 1-2, 2-3, May Queen no. 4 lode were determined on the ground.
Continuation of the “Report” section. In addition to the descriptions of corners of prior official surveys are descriptions of the accessories set for those corners to verify that the found monuments still occupy the positions established by the other deputy mineral surveyor.
Continuation of the “Report” section. The position of the Three Rivers Lode, Sur. No. 2179 was not found and shown at its computed position through its connection to the ¼ corner as described in its patent.
In case of variance between the *locus* of a patented mining claim as indicated by the tie line described in the patent, from a corner of the claim to a corner of the public survey or a United States mineral monument, and as defined upon the ground, the land department will regard as constituting the patented claim, and will not receive further application for patent to, the tract of land embraced in the survey and bounded by the lines actually marked, defined, and established on the ground by monuments substantially within the requirements under the law and official regulations and corresponding to the description thereof in the patent.

This is an excellent DOI land decision to read in its entirety. It describes many precedents supporting the boundary law principle that monuments control over course and distance. The decision also states that the appellee was unable to cite a single decision to the contrary.

Plat of the Emma Nevada Lode, Sur. No. 4348 showing a connection made to the SW Cor. Sec. 7, T. 9 S., R. 78 W., 6th P.M. This claim was discovered on July 2, 1885, an amended location filed on July 10, 1886, survey conducted on August 16, 1886, survey approved on September 2, 1886, mineral entry date of December 14, 1886, and patent date of June 4, 1889.
Plat of the Silver Monument Lode, Sur. No. 15714 showing a connection made to the SW Cor. Sec. 7, T. 9 S., R. 78 W., 6th P.M. This claim was discovered on January 6, 1902, survey conducted February 1-3, 1902, survey approved on April 21, 1902, and mineral entry date of April 28, 1902. The Sinnott v. Jewett land decision issued on July 12, 1904 voided the claim.
Close-up view of the Emma Nevada Lode showing it being contiguous with the Mother Lode, Sur. No. 204 and overlapping the American Lode, Sur. No. 1997.

Note the positions of Cor. No. 1, American Lode and the Emma Nevada discovery shaft.
Close-up view of the Silver Monument Lode showing it overlapping the American Lode, Sur. No. 1997. Note the positions of Cor. No. 1, American Lode and the Silver Monument discovery cut. The Silver Monument discovery cut is only 15 ft. from the Emma Nevada discovery shaft.

Note: The tie from Cor. No. 1, Silver Monument to Cor. No. 1, Emma Nevada Lode is N. 56°24’ W., 1170.7 ft. This tie is to the patent description position of the Emma Nevada Lode. Based upon a 2009 field survey the connection between the two corners, “as staked” is N. 26°33’ W., 20.26 ft.
Segregation diagram of Sec. 7, T. 9 S., R. 78 W., 6th P.M. prepared in July 1902 showing the patent description positions of the mining claims.

Note: No information is given for the dashed positions of the Silver Monument Lode and the Mater Lode, Sur. No. 15889.
Connected Sheet of Sec. 7, T. 9 S., R. 78 W., 6th P.M. prepared in October 1937 showing all the approved mineral surveys in the section.
Close-up view of the connected sheet showing all the approved mineral surveys in the area of the Emma Nevada Lode and the Silver Monument Lode. The connected sheet shows the two lode claims essentially occupying the same ground.
Sketch of segregation diagram of Sec. 7, T. 9 S., R. 78 W., 6th P.M. prepared by GEH in July 1902 showing the patent description positions of all mining claims in relation to the Silver Monument Lode.
Sketch of connected Sheet of Sec. 7, T. 9 S., R. 78 W., 6th P.M. prepared showing only the mineral surveys approved through 1904 (same claims as shown on the segregation diagram sketch).
Photograph of Cor. No. 1, Emma Nevada Lode, Sur. No. 4348 a quartz monzonite porphyry stone chiseled “No 1 x 4348”.

Note: From Cor. No. 1, Emma Nevada Lode to SW Cor. Sec. 7 – S. 51°17’10” W., 2427.42 ft. (record S. 23°27’ W., 2339.20 ft.). The mineral surveyor who conducted this survey often had errors in his surveys, esp. long connections to PLSS corners.
Photograph of Cor. No. 4, Emma Nevada Lode, Sur. No. 4348 a quartz monzonite porphyry stone chiseled “No 4 x 4348”.

Note: From Cor. No. 4 to Cor. No. 1, Emma Nevada Lode – S. 55°54’ W., 300.61 ft. (record S. 56°15’ W., 300.0 ft.).
Photograph taken at Cor. No. 1, Silver Monument Lode, Sur. No. 15714 (in center foreground) looking to the north-northwest with an arrow pointing to Cor. No. 1, Emma Nevada Lode, Sur. No. 4348.

Note: Measured tie is N. 26°27’ W., 20.26 ft; record tie is N. 56°24’ W., 1170.7 ft.
Photograph of Cor. No. 1, Silver Monument Lode, Sur. No. 15714 a quartz monzonite porphyry stone chiseled “1 15714” on the vertical face and a chiseled “X” on the top face that marks the corner position.

Note: From Cor. No. 1, Silver Monument Lode to SW Cor. Sec. 7 – S. 51°45’15” W., 2423.23 ft. (record S. 51°49’35” W., 2424.0 ft.).
Photograph of a permanent backsight erected at the SW Cor. Sec. 7, T. 9 S., R. 78 W., 6th P.M. looking to the northeast at the mining claims described above with London Mountain in the background.
Photograph of the SW Cor., Sec. 7, T. 9 S., R. 78 W., 6th P.M., a granite stone 10” x 5” and projecting 8” above ground. The north, vertical face (nearest field book) shows two horizontal grooves highlighted by moss.

Note: Corner is located in a boggy area of American Flats at an elevation of 11,989.1 ft. (NAVD88).
Photograph of the SW Cor., Sec. 7, T. 9 S., R. 78 W., 6th P.M., a granite stone 10” x 5” and projecting 8” above ground. The south, vertical face (near face) shows four horizontal grooves, which shows it to be two miles from the NW township corner and four miles from the SW township corner.
Theoretical Positions

Three-dimensional depiction of the patent description positions of the circa 1904 mining claims on the southwest flank of London Mountain.
Actual Positions

Three-dimensional depiction of the as staked positions of the circa 1904 mining claims on the southwest flank of London Mountain. Many of the mining claims lie in a scree slope.

Note: The SW Cor. of Sec. 7 is located near the bottom of the image in the dark green area.
THE MOTHER AND MATER LODES CASE HISTORY

These nearby mining claims have no direct connection to the Sinnott v. Jewett land decision, but a similar problem. In April 1902 it was discovered that the record position of the Mother Lode, Sur. No. 204 was N. 53°49’ W., 591.1 ft. from its monumented position and the length of the Mother Lode was 1624 ft. rather than 1500 ft. Because the Mother Lode was located on the London Fault that had an average assay of 2 oz. of Au and 2 oz. of Ag per ton, W. Kenyon Jewett (also the owner of the Silver Monument) fearful of losing a portion of his Mother Lode created a 124 ft. gap between the Mother Lode and the Paris Lode, Sur. No. 205. The Mater Lode, Sur. No. 15889 was staked over the monumented position of the Mother Lode to preserve his valuable asset. The field notes of the Mother and Paris Lodes confirm that they originally shared a common end line.

The Allentown Lode, Sur. No. 15889 was intended to reclaim the gap created in 1902, but Mr. Jewett ran into a problem. The patent description positions of the Mother Lode, Iola Lode, Sur. No. 2929, and Emma Nevada Lode, Sur. No. 4348 inconveniently fell across the gap. Immediately after the Binger Hermann period, on September 1, 1904 the Colorado Surveyor General issued a survey order for the Easton Lode, Sur. No. 17328 to finally reclaim most of the gap remaining between the Mother and Paris lodes.
BLM index card for the Mother Lode, Sur. No. 204 showing that the survey was approved on April 29, 1876 and patented on June 1, 1878.

Note: An amended survey was ordered on July 22, 1907 to bring the length of the Mother Lode from 1624 ft. down to the statutory maximum of 1500 ft. allowed by the 1872 Mining Law. The amended survey was conducted to fix the earlier creation of a gap and subsequent acquisition of the gap by two lode claims.
Plat of the original survey of the Mother Lode, Sur. No. 204, approved on April 29, 1876.

Note: The marginal notation in red ink shows a correction to the course and distance between Cor. No. 1, Mother Lode and Cor. No. 2 Paris Lode, Sur. No. 205 of N. 33°44’ W., 3128.5 ft. The material error was reported in letter report 56872 by U.S. Deputy Mineral Surveyor W.H. Powless during his survey of the Easton Lode, Sur. No. 17328. The corrected course and distance are the computed resultant of retraced Line 1-2, Mother Lode, (N. 34°8’ W., 1624 ft.) and retraced Line 1-2 of the Paris Lode, (N. 33°21’ W., 1504.5 ft.).
Plat of the amended survey of the Mother Lode, Sur. No. 204, approved on September 12, 1907.

Note: The bearing of Line 1-2 of the amended survey matches the retraced bearing for Line 1-2 of the original survey of the Mother Lode as described in the “Report” section of the Eaton Lode, Sur. No. 17328 field notes.
Close-up view of the amended survey of the Mother Lode that shows Cor. No. 1, Paris Lode, Sur. No. 205 is common to the original Cor. No. 2, Mother Lode and Cor. No. 4, Paris Lode is common to the original Cor. No. 3, Mother Lode.
Plat of the Mater and Allentown lodes, Sur. No. 15889. This plat shows the madness of complying with a policy where patent description positions of prior official surveys are held over their monumented positions.

The Mater Lode was intended to claim the same ground as the monumented position of the Mother Lode, while excluding the northerly 124 ft. that was in excess of the statutory maximum length of 1500 ft. for lode claims. The Allentown Lode was located to claim that “statutory gap” that was created out of fear because the length of the Mother Lode was 124 ft. too long. Neither of these goals were fully accomplished because the patent description positions of the Mother Lode, the Iola Lode, Sur. No. 2929, and the Emma Nevada Lode, Sur. No. 4348 conflicted with the two lode claims in Sur. No. 15889.

This plat is the height of irony as the mineral survey vainly attempts to fix a problem created by ignoring the sanctity of monuments over course and distance by additional application of that erroneous policy.
Close-up view of the plat for Sur. No. 15889, showing the created gap between the Mother and Paris lodes and the conflicts with the patent description positions of the Mother, Iola and Emma Nevada lodes that preclude the Allentown Lode from claiming the entirety of the newly created gap.
Field notes for the Mater Lode, Sur. No. 15889 that describes Cor. No. 1 as, “A granite stone 30 x 10 x 8 ins., set 18 ins. in slide rock with mound of stone, chiseled 15899, whence.


The S'W cor. said Rec. 7, bears S. 36° 6' 41" E. 1972.1 ft.

Cor. No. 4 Rec. No. 204, Mother Lode. W. Kennon Dewitt, claimant, bears N. 73° 49' 36" W. 563.6 ft.

Cor. No. 4 Rec. No. 204, Mother Lode, claimant's unknown, bears N. 73° 46' 21" W. 782.8 ft.”

Note: The field notes of the Mother Lode, Sur. No. 204 describes Cor. No. 1 as, “a granite stone 30 x 8 x 10 inches set in mound of stone chiseled 1/204.”
Plat of the Senator Patterson and Towne lodes, Sur. No. 17327. This survey was conducted during the transition immediately after the Binger Hermann policy ended. The mineral surveyor submitted his preliminary plat and draft field notes a total of five times until the survey was approved on April 19, 1905. The field notes include full descriptions of all found corners, lines surveyed and any material errors in the newly required “Report” section.
Excerpt of the field notes that describes Cor. No. 4 of the Towne Lode, Sur. No. 17327 as being, “a schist stone 30 x 10 x 8 ins., set 18 ins. in the ground with mound of stone chiseled 4/17327, 1/204 and 1/15889.”

Yes, Cor. No. 4 of the Towne Lode is “Identical with Cor. No. 1 Sur. No. 204 Mother Lode, as staked and with Cor. No. 1 Sur. No. 15889, Mater Lode, as staked!

Note: The “as staked” notations complied with one of the new requirements in the instructions issued by John F. Vivian, U.S. Surveyor General for the District of Colorado to verify that the corners were the original established corners of the prior official surveys.
Plat of the Easton Lode, Sur. No. 17328. This lode claim was located on September 6, 1902, but a mineral survey order was not issued until September 1, 1904 because the created gap was not recognized as ground open for mineral entry by the GLO until the end of the Binger Hermann policy.

Note: There appear to be several concerns about this small claim that reclaimed the gap created when the Mother Lode, Sur. No. 204 was shortened in 1902. W.H. Powless submitted his returns to the Colorado Surveyor General seven times before the mineral survey was finally approved on November 5, 1905.
Close-up view of the Easton Lode showing the relationships with several senior claims.

Note: The fact that only Cor. No. 4 of the Easton Lode is coincident with its location corner indicates that there were multiple interpretations for the positions of the patented claims surrounding the Easton Lode. This may explain in part why Deputy Powless submitted draft returns seven times over the course of 13 months before the mineral survey was finally accepted by the Surveyor General.
Plat of the Emma Nevada Fraction Lode, Sur. No. 20510, survey approved February 26, 1934. Having the term “fraction” as part of the lode claim name is appropriate as the patent expressly excepts and excludes seven lode mining claims for a patented acreage of 1.064 acres.

Close-up view showing an additional certification in red ink of changes in seven dimensions on the plat, dated March 4, 1938.
Close-up view of the plat showing four of the corrected dimensions. The additional field notes describe a revised position for the Iola Lode, Sur. No. 2929.
February 15, 1938

Denver 040905 "W"  ME

District Cadastral Engineer, 
Public Survey Office, 
Denver, Colorado

Sir:

Reference is made to mineral survey No. 20510, 
Emma Nevada Fraction lode under mineral entry, Denver 
040905, of the London Mines and Milling Company and to 
adjacent mineral survey No. 2929 for the Iola Lode claim.

A protest was filed by the West London Mines 
Company against the issuance of patent to the London 
Mines and Milling Company for the Emma Nevada Fraction 
Lode mining claim. The protest was, on October 22, 1934, 
transmitted to you for appropriate action under Sections 162 
and 163 of the mining regulations.

In a letter of October 29, 1934, the Administrative 
Cadastral Engineer stated that apparently the controversy is not 
one concerning the efficiency of the surveyor or the accuracy 
of his work, but merely questioned the methods employed by the 
surveyor in fixing the position of lost or questionable corners 
of prior patented mineral surveys, and that in his opinion the 
controversy did not come within the purview of Secs. 162 and 163 
of the mining regulations but is clearly one for the courts to

First page of a GLO Commissioner’s Departmental Letter “N” to 
the District Cadastral Engineer, Public Survey Office, Denver 
Colorado. The letter is in response to a protest by the owner of 
the Iola Lode, Sur. No. 2929. The protest was not related to the 
accuracy of the mineral surveyor’s field survey of the Emma 
Nevada Fraction Lode, but rather to the methods employed by 
the mineral surveyor (Gerald F. Galloway) in fixing the position of 
lost or questionable corners.
Second page of GLO Departmental Letter “N”.

Note: The GLO Commissioner did not find any fault in the methods employed by Deputy Galloway in reestablishing the lost corners. The landowners came to an agreement regarding the positions of the lost and/or questionable corners. Finding no issues with the agreement between the private parties, the Commissioner authorized the District Cadastral Engineer to, “have an amended survey made in accordance with the agreement.”
Close-up view of the Supplemental Master Title Plat for Sec. 7, T. 9 S., R. 78 W., 6th P.M.

Note: The Supplemental MTP shows an area to the east of MS 15889 labeled MS 20510 that allegedly was not included in the patented area of MS 20510. The plat of the Allentown Lode, Sur. No. 15889 shows a theoretical conflict with the Iola Lode, Sur. No. 2929. However, the Wasatch Mining Co. land decision (45 L.D. 10) discussed earlier ruled that theoretical exclusions in mineral lands patents pass under the patent, so the gap shown on the MTP does not likely exist in fact and belongs to the Allentown Lode.
Plot of the patented mining claims along the London Fault (orientation is NNW to SSE) in the vicinity of the Mother Lode, the first lode mining claim located in Sec. 7. The SW Cor., Sec. 7, T. 9 S., R. 78 W., 6th P.M. is marked by an “x” at the bottom, left center of the image.

Note: The imagery is National Agriculture Imagery Program (NAIP) flown in the fall 2009.
Photograph of Cor. No. 1, Mother Lode, Sur. No. 204, Cor. No. 1, Mater Lode, Sur. No. 15889, and Cor. No. 4, Towne Lode, Sur. No. 17327; a quartz monzonite porphyry stone 30 x 10 x 8 ins.

Note: The arrow in the upper right points to the SW Cor., Sec. 7, T. 9 S., R. 78 W., 6th P.M., a granite stone.
Close-up photograph of the east face that is chiseled “1 - 204 AM.”

Note: Connections to SW Cor., Sec. 7

S. 42°56′26″ W., 2174.60 ft. (measured, 2009)
S. 27°25′ W., 2185.32 ft. (record Mother Lode)
S. 42°59′45″ W., 2175.10 ft. (record Mother Lode Amended)
Close-up photograph of the top face that is chiseled “1 – 15889”

Note: Record connection to SW Cor., Sec. 7 is S. 42°59′45″ W., 2175.10 ft.
Close-up photograph of the west face that is chiseled “4 – 17327”.
Photograph of Cor. No. 4, Mother Lode, Sur. No. 204 and Cor. No. 2, Mater Lode, Sur. No. 15889; a quartz monzonite porphyry stone 24 x 10 x 12 ins.

Note: From Cor. No. 4, Mother Lode Amended / Cor. No. 2, Mater Lode to Cors. Nos. 1 and 1, Mother Lode Amended and Mater Lode.

S. 56°08’20” W., 298.71 ft. (measured)
S. 56°15’ W., 300.0 ft. (record Line 4-1 Mother Lode)
S. 56°22’ E., 300.0 ft. (record Line 1-2 Mother Lode Amended)
N. 56°22’ E., 300.0 ft. (record Line 1-2 Mater Lode)
Close-up photograph of the south face that is chiseled “4 - 204 AM.”
Close-up photograph of the west, sloping face that is chiseled “2 - 15889.”
UNITED STATES MINING CO. V. WALL
DOI 39 L.D. 546 – MARCH 6, 1911

CONFLICTING MINING CLAIMS – LOCUS OF CLAIM

The position of conflicting mining claims, and their positions with relation to each other, must be determined as the claims are defined and established on the ground, and all errors of description of the position of any of the claims, and of conflicts among them, must give thereto.

This was as much a personal vendetta between Enos Wall and Albert F. Holden, president of the United States Mining Co. over extralateral rights litigation at the Bingham Canyon Mine. For more information see “History of the Bingham Mining District,” Wilbur H. Smith Papers Univ. of Utah.

http://hickmanmuseum.homestead.com/files/BILLINGS.WHS.htm

This Utah land decision confirms the decision made in Sinnott v. Jewett. The claims are located in Bingham Canyon, Utah.

Note: All the lode mining claims that are part of this land decision are within the current open pit of the Kennecott Copper Mine.

Photograph of Cor. No. 2 of the Bushwhacker Lode, Sur. No. 20591 located in Buckskin Gulch, approximately 3½ miles northwest of Alma, CO.
E. Chapter X of the 2009 Manual — Resurveys of Mineral Surveys
1. The Nature of Dependent Resurveys of Mineral Surveys
2. Lost Corners
3. Physical Location and Title Conflict
4. Special Cases
5. Mineral Survey closure change (0.5 ft. in 2000 ft.)
6. Gaps & Overlaps Not of Record

F. Gibbonsville, Idaho Case History

Photograph of Cor. No. 3, Last Chance Lode, Sur. No. 2214 located on the south spur of Mt. Bross, 3 miles northwest of Alma, CO.
The sections on “Mineral Segregation Surveys” is contained in Secs. 10-94 through 10-100. Although they are the exclusive purview of BLM Cadastral surveyors, they may provide the private surveyor with valuable guidance when dealing with unpatented mining claims that have been excluded in a patent of mineral lands, particularly in how to cast off any statutory excess in the size of the unpatented mining claim to conform to the mining laws and regulations.

When there is evidence of the location of the unpatented mining claim, the excluded area cannot exceed the statutory limits of 1500 feet along the lode and up to 300 feet each side of the lode. Additional information is included in sections 10-116, 10-131 and 10-197, which are part of the instructions to U.S. Mineral Surveyors conducting a mineral patent application survey.
Sketch of the unpatented lode claim, Two Point that was surveyed by the mining claimant and has excess in both the length and width of the claim as authorized by the 1872 Mining Law. The sketch to the right shows how a mineral surveyor might cast off the excess to comply with the statutory limits.

Note: The U.S. Mineral Surveyor had to fit the final claim geometry within the envelope of the location surveyed by the claimant and keep the end lines substantially parallel.
The specifics on surveying and reporting conflicts with prior official surveys are discussed in sections 10-144 through 10-151 under the topic heading, “Conflicts”. Only the lines of prior official surveys in conflict with the patent survey are retraced. If, after a diligent search the necessary corners controlling a line in conflict cannot be found, they must be reestablished.

Reestablishing lost corners of conflicting mineral surveys is a new requirement for the mineral surveyor. In the past, if the mineral surveyor was unable to find the controlling corners, he would report the record position of the senior conflicting lines in his field notes. If the mineral survey was conducted after August 1904, the field notes will contain a section (either named "Report" or "Other Corner Descriptions"). The section describes which corners were found, what lines are as previously reported and any lines that have material errors.
CHAPTER X - RESURVEYS OF MINERAL LANDS

The remaining discussion covers the sections, “Resurveys-Mineral Lands” (Sections 10-208 through 10-229) and “Special Cases” (Sections 10-230 to 10-231). There are four topic headings in the resurveys section:

• The Nature of Dependent Resurveys of Mineral Surveys (Secs. 10-208 to 10-212);
• Lost Corners (Secs. 10-213 to 10-214);
• Physical Location and Title Conflicts (Secs. 10-215 to 10-223);
and
• Gaps and Overlaps Not of Record” (Secs. 10-224 to 10-229).

The 2009 Manual is the first manual to include instructions on the resurvey of mineral lands. Prior to this, the only GLO/BLM guidance on mineral survey resurveys was, “Mineral Survey Procedures Guide” by John V. Meldrum, 1980. Resurveys are discussed in Chapter VI of the guide and comprise a total of 4 pages (2 pages are diagrams).
CHAPTER X - RESURVEYS OF MINERAL LANDS

The introductory material is contained in the Chapter X topic, “The Nature of Dependent Resurveys of Mineral Surveys” (10-208 to 10-212). It states that dependent resurveys of mining claims follow the same basic rules as dependent resurveys of the rectangular PLSS (see Chapters V, VI and VII). It adds an additional condition for lode mining claims that the end lines must be substantially parallel. This is to preserve the bona fide rights to the subsurface mineral estate.

The U.S. mining laws grant a mining claimant the right to follow the vein/lode at depth. In other words, the discovery of a locatable mineral in a mineralized vein grants the claimant the right to follow that vein at depth regardless of where it may roam. If the mineralized vein is not vertical it will eventually extend beyond one of the lode claim side lines. This right is referred to as extralateral rights.
CHAPTER X - RESURVEYS OF MINERAL LANDS

Under the 1872 Mining Law, the claimant has a right to mine the portion of any lode or vein that apexes within the surface extents of a lode mining claim controlled by the claimant. The introduction also includes the text of the Act of April 28, 1904 and the important DOI Land Decision, *Sinnott v. Jewett* (33 L.D. 91).

The Act is only two paragraphs long and one might wonder why it was enacted. Congress was genuinely perplexed as to why the legislation was eagerly sought by the mining industry since case law was abundantly clear on the subject. The mining industry persuaded Congress that a misguided General Land Office policy was, “foisting an evil upon the mining industry”, which necessitated the statutory remedy.
The first paragraph of Sec. 10-212 discusses how to reestablish lost lode claim corners.

There is no hard and fast rule for reestablishing lost corners of lode mining claims. The method should be selected that will give the best results, bearing in mind that end lines of lode claims should remain substantially parallel, if parallel by record. When the original surveys were made faithfully, the application of the principles of parallelism, record distances, record angular relationships, and record relationships between the claim and the workings on it, in combination with the presumption that the original intent was to be conformable with the statutes governing dimensions and area, should substantially meet the objectives stated above.
CHAPTER X - LOST CORNERS


It is curious that the 2009 Manual does not include the diagrams. Perhaps a future addendum will reference the diagrams. For restoring lost corners of irregular mining claims (e.g. gulch placers and mill sites), “the secondary methods of broken boundary adjustments covered in sections 7-53 and 7-54 should be considered.”
Chapter VI

Resurveys

From John Meldrum’s, “Mineral Survey Procedures Guide” Chapter VI includes suggestions on how best to reestablish lost or missing corners under several scenarios depicted in Figure 7.

Note: It is important to evaluate the position of the mining improvements listed in the official field notes for all five scenarios, but especially for situations where the positions of the lost corners can either be reestablished at record bearings from the found corners or at the same variation from the record as the found line(s).
The remainder of section 6.1 deals with restoring corners of irregular claims such as metes-and-bounds placer claims and mill sites, and the proportionate methods used to reestablish corners of a block of claims as depicted in Figure 8.
Scenarios where single and double proportionate methods are the appropriate methods for reestablishing lost corners in a block of claims.
Since lode claims are oriented along mineralized veins, it is uncommon for the boundary lines to be oriented to the cardinal directions. A clockwise rotation of 30° of this block of claims will make the computation of cardinal equivalents easier when using double proportion to reestablish the lost Cors. Nos. 2 of claims E, F, G and H.
CHAPTER X - RESURVEY OF MINERAL LANDS

The next topic under the resurvey of mineral lands is, "Physical Location and Title Conflicts" (Secs. 10-215 to 10-223). This topic covers the issue of seniority and what factors the resurveyor must evaluate in order to determine which patentee owns the area in conflict between two or more lode claims. The last paragraph in Section 10-215 provides a brief summary.

As a general rule, "first in time, first in right" will determine the priority of conflicting mining claims or sites. Determining the extent of rights to a mining claim or site typically depends on evidence gathered from prior sequential grants and surveys.
CHAPTER X - RESURVEY OF MINERAL LANDS

The mineral lands tenure system is unique, esp. with respect to lode mining claims. The claimant of a lode claim is attempting to acquire their full right under the mining laws to the subsurface mineral estate. In order to acquire their full right, the claim stakes set on the surface are often in conflict with other claims.

It was customary in mining camps that a claimant was allowed to peaceably trespass upon and across the claim(s) of others to set his stakes. This principle is supported by the U.S. Supreme Court in Del Monte Mining & Milling Co. vs. Last Chance Mining & Milling (171 US 55), 1898.
SPECIAL CASES (SECS. 10-230 & 10-231)

It is informative to jump to the last topic in Chapter X, “Special Cases” (Secs. 10-230 and 10-231) before discussing the topic “Gaps and Overlaps Not of Record”. Section 10-230 is key to applying the resurvey rules and instructions laid out in Chapter X. None of the rules and instructions should be strictly adhered to, but rather, “experience, thoroughness and good judgment are indispensable for the successful retracement and recover of any survey....” and therefore, judgment should temper the rules.

*It is an axiom among experienced cadastral and mineral surveyors that the true location of the original lines and corners can be restored, if the original survey was made faithfully, and was supported by a reasonably good field-note record. That is the condition for which the basic principles have been outlined, and for which the rules have been laid down. The rules cannot be elaborated to reconstruct a grossly erroneous survey or a survey having fictitious field notes.*
First, a comment on the last part of the above quote emphasized by underlining. During the time period from July 1899 to August 1904 fictitious field notes were the rule rather than the exception for mineral surveys where there is a conflict with a prior official survey. The July 1899 beginning date only applies to Colorado. In other western states, the beginning date is likely some time in 1900. The fiction does not lie with the position of the mining claim being surveyed, but with the practice of showing theoretical positions of prior official surveys.

The manner in which the U.S. Deputy Mineral Surveyor was forced to report the conflicts with prior official surveys followed this general form. He connected his survey to each of the corners of the PLSS that the prior official surveys were tied to. Using those measured connection(s) the deputy fixed the record positions of the prior patented surveys as if playing the child’s game “pin the tail on the donkey.”
SPECIAL CASES (SECS. 10-230 & 10-231)

In other words, the deputy started with his surveyed position of the PLSS corner(s) and then computed the position of the senior claim from the PLSS control corner based solely on the record information of the prior survey. Where the computed senior survey draped across his survey is where he described it to be in his field notes and on his preliminary plat (i.e. the deputy falsified his returns in compliance with his sworn duty to follow all instructions issued by the GLO). The senior survey’s original monuments were ignored.

At least in Colorado this was not a rare occurrence as more than 4000 mineral survey orders were issued during the 5+ years that the policy was enforced by the GLO. There were also approx. 620 amended surveys and amended plats conducted during that timeframe. The previously discussed Act of April 28, 1904 overturned this policy and required the General Land Office to promulgate new rules and policy via the Sinnott v. Jewett and Drogheda and West Monroe Extension land decisions.
Section 10-231 is directed at the BLM Cadastral surveyor engaged in an official dependent resurvey, but the sentence equally applies to private surveyors.

When the surveyor encounters unusual situations, or finds it difficult to apply the normal rules for good faith location and substantially as approved or for the restoration of lost corners, the surveyor will report the facts to the proper administrative office.

Almost every mineral survey has the potential of bordering the Public Lands. The proper “administrative office” for private surveyors to contact would be the state Branch Cadastral Chief. The Branch Cadastral Chief is the person delegated (through the authority assigned by Congress to the Department of the Interior Secretary) to determine the extents of the Public Lands in the state(s) they are assigned.
SPECIAL CASES (SECS. 10-230 & 10-231)

The GLO policy was brought up while discussing the "Special Cases" expressly to show that there was a policy in force for five years that required U.S. Deputy Mineral Surveyors to falsify the positions of senior conflicting claims. The 2009 Manual does not make any mention of what is referred to as the "Binger Hermann" policy, which is named after the Hon. Commissioner of the General Land Office, Mr. Binger Hermann who served from 1897 to 1903. The Act of April 28, 1904 and the Sinnott v. Jewett Land Decision are cited under "Resurveys", but no mention is made as to why they were enacted and promulgated, nor is any mention made of what they "cured".

The fact that the U.S. Surveyor General for the District of Utah stated in his official annual reports of 1901, 1902 and 1903 that the deputies under his charge were forced to "falsify their returns" is startling. Their only other choice was to resign. Writings of the time mentioned that some deputies did just that.
SPECIAL CASES (SECS. 10-230 & 10-231)

Since the penultimate section in Chapter X mentions, "fictitious field notes", the Binger Hermann policy was addressed there. Suggested updates to the mineral resurvey sections of the 2009 Manual are to add the lost corner illustrations in Chapter VI of Meldrum's guide and information on the Binger Hermann policy.

Otherwise, section 10-214 contains no context and therefore, is ambiguous. If taken literally, virtually every mineral survey before August 1904 (when the "Report" section describing other found corner monuments was added) is suspect regarding its ties to other mineral surveys.

10-214. Caution should be exercised in the use of any ties to or from adjoining surveys when the descriptions for the conflicting claim corners, PLSS corners, or mineral monuments are not mentioned in the field notes memorandum and may in fact have only been calculated and not surveyed on the ground. Such calculated ties, as a rule, should not be used.
TO BEND
OR
NOT TO BEND

THAT IS THE QUESTION!??!
GAPS AND OVERLAPS NOT OF RECORD

10-224. Patented and unpatented claims and sites were often surveyed as contiguous to each other by sequential surveys. When the record is clear that monuments were set to mark corners common to two claims, the presumption is that the claim line as marked is common to the two claims. Experienced surveyors know in the case of offset claim corners along a boundary between contiguous claims that, after monumentation, technical gaps or overlaps will exist. These are not legal or title conflicts. It is known that every measurement contains some error and it is impossible to put a monument exactly on the straight line between two other monuments; slight variations in direction or distance are unavoidable and acceptable.
GAPS AND OVERLAPS NOT OF RECORD

10-224 (cont.) During the retracement, the extent of the falling of the intermediate monument from the straight line between the two other monuments is measured. An analysis of conditions will be conducted and a determination made as to whether the line is common to the two claims or the error is so gross as to impair a legal right as to position so that the claims were never contiguous.
GAPS AND OVERLAPS NOT OF RECORD

10-225. When the relationship between the monuments is substantially as approved, and there is no evidence of fraud, mistake or gross error, the line running through the intermediate monument, as measured, will be returned as common to the claims.

When determining whether the conditions found during the retracement are substantially as approved, the surveyor shall be guided by law, rules, official policy, effect on extralateral rights, and survey principles thereof.
EXAMPLES OF TECHNICAL GAPS AND OVERLAPS

EXAMPLE 1 - JUNIOR CLAIM OVERLAPS SENIOR CLAIM.

This first example is a situation where the field notes and patent for the Junior Claim state, "thence from Cor. No. 1 due west 1500 ft. to a point on Line 4-1 of the Senior Claim, thence due north 300 ft. along said Line 4-1 of the Senior Claim to Cor. No. 3, from which Cor. No. 1 of the Senior Claim bears due north 580 ft...." The field notes and patent clearly indicate that Line 4-1 of the Senior Claim is contiguous with Line 2-3 of the Junior Claim.

A careful retracement of the two lode claims found all 8 corners in their officially established positions, which shows a technical overlap of the Junior Claim onto the Senior Claim. The red dashed lines are the lode lines of the two claims.
Senior Claim

Junior Claim
According to the instructions in Chapter X, the resurvey plat should show Line 4-1 of the Senior Claim bending through Cor. Nos. 2 and 3 of the Junior Claim.
While the Manual instructions state that this is proper, one interpretation is that doing so violates the Act of April 28, 1904. Original, undisturbed monuments are the supreme evidence of what land was conveyed in the patent and there is no indication that the lines of the survey are to be regarded as anything other than straight lines between the corners.

Also, since a federal patent is regarded as a quit claim deed, the Federal Government cannot convey the area in conflict to the junior claim after it was previously conveyed to the senior claim. And since both claims are patented, the Federal Government no longer has jurisdiction and therefore, the BLM may not have the authority to bend the senior line through the junior monuments in this example. See Steele v. Smelting Co. 1882; 1 Sup. Ct. 389, 106 U.S. 447, 454, 27 L. Ed. 226.

Would it be better to treat the technical overlap example the same as an intentional overlap and hold the lines as depicted in the first figure so that the conflict belongs to the senior claim?
**EXAMPLE 2 - TECHNICAL GAP BETWEEN JUNIOR CLAIM AND SENIOR CLAIM**

The second example is a situation where the field notes and patent for the Junior Claim state, "thence from Cor. No. 1 due west 1500 ft. to a point on Line 4-1 of the Senior Claim, thence due north 300 ft. along said Line 4-1 of the Senior Claim to Cor. No. 3, from which Cor. No. 1 of the Senior Claim bears due north 580 ft...." The field notes and patent clearly indicate that Line 4-1 of the Senior Claim is contiguous with Line 2-3 of the Junior Claim.

A careful retracement of the two lode claims found all 8 corners in their officially established positions, which shows a technical gap between the junior lode and the senior lode. The red dashed lines are the lode lines of the two claims.
According to the instructions in Chapter X, the resurvey plat should show Line 4-1 of the Senior Claim bending through Cor. Nos. 2 and 3 of the Junior Claim.

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**Senior Claim**

**Junior Claim**
The concept of closing corners is not in Chapter X. However, there may be situations where the Junior Claim calls to a senior line where Cors. Nos. 2 and 3 of the Junior Claim should be regarded as closing corners and extended to Line 4-1 of the Senior Claim rather than bending Line 4-1 of the Senior Claim through Cors. Nos. 2 and 3 of the Junior Claim.

(See magenta-colored lines)
There are additional considerations that may change that opinion. One being whether the distance from Cor. No. 1 of the Junior Claim along Line 1-2 until it intersects Line 4-1 of the Senior Claim is longer than 1500.0 ft., which is the statutory limit under the U.S. 1872 Mining Law.

While some may regard the area of the gap as *de minimus*, one preference would be to maintain the geometry of lode claims as contemplated in the U.S. Mining Law of 1872 and regard the junior intermediate corners as closing corners.

Regarding the above examples, if Cors. Nos. 2 and 3 of the Junior Claim were not found, would your solution be to place them on Line 4-1 of the Senior Claim? Even when the length of Line 4-1 is greater than 1500 feet?
For this given set of facts, a BLM surveyor conducting an official resurvey should be within their right to bend the senior line through the junior intermediate corners. It also meets the intent of the Federal Government as outlined in the first paragraph of Sec 10-229 to not, "retain unmanageable slivers of land...."

From the perspective of a private surveyor it is uncertain if they have the authority to bend Line 4-1 of the Senior Claim through Cor. Nos. 2 and 3 of the Junior Claim. Again, one interpretation of the Act of April 28, 1904 is that calls to a senior line incorporate the monuments of that senior line with the junior claim monuments and as such, Lines 1-2 and 3-4 should close upon Line 4-1 of the Senior Claim.
Example 3 - Technical Gap and Overlap Between Junior Claim and Senior Claim

Example 2 had the Junior Claim corners being intermediate monuments while this example has the Senior Claim corners as the intermediate monuments. For this technical gap & overlap example, the senior monuments cannot be considered as closing corners. For the two claims to share a common line, the field notes for the Junior Claim must call the Senior Claim corners as being on the Junior line. Otherwise, the conditions in Sec. 10-224 are not met.

In this example, the field notes and patent for the Junior Claim state:

Thence from Cor. No. 4 due north 580 ft. to Cor. No. 2 of the Senior Claim, thence 300 ft. to Cor. No. 3 of the Senior Claim, thence 620 ft. to Cor. No. 1, being the point of beginning.

The Junior Claim field notes and patent also note that all lines were run directly on the ground, which indicate that Line 4-1 of the Junior Claim is common with Line 2-3 of the Senior Claim. A careful retracement of the two lode claims found all 8 corners in their officially established positions, which shows a technical gap and overlap between the Junior Claim and the Senior Claim.
Since Cors. Nos. 2 and 3 of the Senior Claim cannot be regarded as closing corners, the only two options available are to leave the technical overlap and gap or to bend Line 4-1 of the Junior Claim through Cors. Nos. 2 and 3 of the Senior Claim.

In this case, another boundary principle may be controlling. The resurveyor does not need to bend the junior line per the rules in Chapter X because the position of the line as run and established on the ground is controlling.

Therefore, Cors. Nos. 2 and 3 of the Senior Line act the same as line trees in a rectangular PLSS survey and as such, they are properly regarded as angle points in Line 4-1 of the Junior Lode.
Example 4 - Technical Overlap of End Lines Between Junior Claim and Senior Claim

Example 3 had the usual situation of a side line and an end line. In this case both lines are end lines and the Senior Claim corners are the intermediate monuments. This is a common example in Colorado where the widths of lode claims changed over time.

In this case, the Highland Mary lode claim (senior in right) was restricted to a maximum width of 300 feet and the Bushwhacker lode claim (junior in right) has the maximum width authorized by the 1872 Mining Law of 600 feet. For this technical overlap example, the senior monuments cannot be considered as closing corners.

The official field notes of the Bushwhacker Lode, Sur. No. 20591 are listed below and show that Line 1-2 was run directly on the ground and through Cors. Nos. 1 and 4 of the Highland Mary Lode, Sur. No. 8411. All four corners were found and all, but Cor. No. 4 of the Highland Mary Lode were intact. The original bearing rock of Cor. No. 4 of the Highland Mary Lode was used to reestablish the monument in its original position.
Plat of the Highland Mary Lode, Sur. No. 8411, approved July 12, 1893.
Plat of the Bushwhacker and Niagara lodes, Sur. No. 20591, approved September 21, 1938 showing Line 1-2 of the Bushwhacker Lode to be contiguous with Line 4-1 of the Highland Mary Lode, Sur. No. 8411.

Note: The statement in the preamble of the field notes states that all lines were run by direct methods.
Other Corner Descriptions section of the official field notes of the Bushwhacker and Niagara lodes, Sur. No. 20591.

Note: The description for Sur. No. 8411 states that both Cors. Nos. 1 and 4 of the Highland Mary Lode were found firmly set and properly marked and that Line 4-1 was measured and found to be N. 27°30’ W. 290 ft. as approved.
Highland Mary Lode (Senior)

Bushwhacker Lode (Junior)
Since Cors. Nos. 1 and 4 of the Highland Mary Lode cannot be regarded as closing corners, the only two options available are to leave the technical overlap or to bend Line 1-2 of the Bushwhacker Lode through Cors. Nos. 1 and 4 of the Highland Mary Lode.

In this case, the location of Line 1-2 of the Bushwhacker Lode is fixed as run and established on the ground.

Therefore, Cors. Nos. 1 and 4 of the Highland Mary Lode act the same as line trees in a rectangular PLSS survey and are angle points in Line 1-2 of the Bushwhacker Lode.
EXAMPLE OF THE RECORD SHOWING THE TWO LINES ARE COMMON, BUT THE JUNIOR LINE WAS NOT RUN

This last example is left as additional food for thought when contemplating bending the lines of one mineral survey through the intermediate corners of another survey.

In this example, the “Report” section of the official field notes of the Sun Flower No. 1 and Sun Flower No. 2 lodes, Sur. No. 17480 explicitly states which lines of the survey were run on the ground. The survey commenced at Cor. No. 4 of the Sun Flower No. 2 and ran along Line 3-4. The end lines of both claims were stubbed out from this line.

The common side line of the two claims (Line 1-2) and Line 3-4 of the Sun Flower No. 1 lode were not directly run. The call is that Line 4-1 of the Jay Gould Lode, Sur. No. 571 is on Line 3-4 of the Sun Flower No. 1 Lode.

Should this be treated the same way as the previous examples of gaps and overlaps not of record with Cors. Nos. 1 and 4 of the Jay Gould held as angle points in Line 3-4 of the Sun Flower No. 1?
Plat of the Jay Gould Lode, Sur. No. 571 located 3 ½ miles northwest of Alma, CO.
Plat of the Sun Flower No. 1 and Sun Flower No. 2 lodes, Sur. No. 17480, which was surveyed and approved after the Binger Hermann policy was rescinded.

Note: There are two exclusions of unsurveyed lode claims (the Night Hawk and May Queen No. 4 lodes). The record positions of those lode claims as documented in the field notes of Sur. No. 17480 should be used if the original location posts of the unsurveyed claims are not found.
Excerpt from the “Report” section of the field notes for Sur. No. 17480. It includes a statement of what lines were run.

Note: In this case, the positions of Cors. Nos. 1 and 4 of the Jay Gould Lode, Sur. No. 571 were made by direct connections on the ground. However, it appears that Line 3-4 of the Sun Flower No. 1 lode was not run (or not completely run) on the ground.
Not uncommon, yet unique in their purpose and survey rules and applications, mineral surveys offer challenges somewhat different from sectionalized lands in the Public Land Survey System (PLSS) of “township and ranges.” The frequency of gaps and overlaps (intended and unintended) inundates the complex staking of mineral surveys in an area containing valuable mineral deposits that is open to exploration and discovery activities under the various mineral survey laws.
Gibbonsville, Idaho, located about 33 miles north of Salmon, Idaho and just east of US Highway 93 (Lewis & Clark Trail).
On an early spring day in 1979 Salmon National Forest personnel saw logging trucks, loaded with freshly cut timber, exiting the Dahlonega Creek Road, onto US Highway 93 and heading north towards Montana. They drove up the Dahlonega Creek Road and found a timber harvest operation that had obviously been active for several late winter months. There was no permit filed with the Salmon National Forest. Further inspection revealed that the logging trucks were driving through local creek beds causing creek bottom damage and downstream contamination. A drive north, along the Anderson Creek road, revealed that many of the harvested trees appeared to be coming from US Forest Service lands on the steep hillside west of Anderson Creek. IT APPEARED THAT THERE WAS AN ACTIVE TIMBER HARVESTING TRESSPASS ON FOREST SERVICE LANDS.

The red circle is at the junction of the Dahlonega Creek Road and the Anderson Creek Road and will approximate the same location in the next several slides.
USGS 7-1/2' Topographic Map of the general Gibbonsville area.
Northerly view of Gibbonsville circa approximately 1900.
Oblique Google Earth view northerly in the Gibbonsville area.
West-southwesterly view of Gibbonsville circa approximately 1900.
Oblique Google Earth view west-southwesterly in the Gibbonsville area.
Enlargement of Gibbonsville, Idaho Mineral Survey and Homestead Entry Survey Complex. Mineral Survey No. 1127 (the 14 Lodes in the upper right of this slide) was surveyed and the plat and field notes were approved by the Surveyor General's Office. However, the (14) Lode claims were not patented. A few original corner monuments of MS 1127 were found and became useful in locating corners of MS 1217 and 1218 that had been disturbed and difficult to identify due to the timber harvesting activity.
The original Gibbonsville Townsite is surrounded by Mining Claims and its location is indicated by the nine red backwards “L” figures and highlighted with red lines.

The Diana Lode, 956A, is sandwiched between Mineral Claims 1129, 1187, and 3074.
Master Title Plat (MTP) for Unsurveyed T26N, R21E.
Portion of the enlarged area of sheet two of the Master Title Plat (on the left) and an enlargement of two areas to be discussed in further detail within a portion of Unsurveyed T26N, R21E, Boise Meridian, ID.
Master Title Plat for Unsurveyed T26N, R22E.
Composite mosaic of the three former MTPs, spliced together and scaled to fit closely as possible.
There are three basic line weights shown on this enlargement of a portion of two adjacent Master Title Plats (MTPs). The narrowest line weights are the projected section lines (these mineral survey claims are in an unsurveyed township) and the lines around all but the southern line of “Unpatented Mineral Survey No. 1129.

The next heaviest line weight is around the portions of patented lands that border federal interest lands.

The heaviest line weight is between the portions of patented lands that share a common boundary.
Gibbonsville mineral survey complex overlaid on a USGS quadrangle map. Note the steep, timbered hillside along the western side of Anderson Creek north-northwest of Gibbonsville (most of the western portion of Section 24 and the northwestern portion of Section 25. This steep hillside area is Salmon National Forest Land.
One of the important elements of a lode claim is the extralateral rights. More about the extralateral rights of the Diana Lode a little later.

Mineral Survey No. 956A held some surprises and led a local private surveyor to setting the NW corner of said lode (Cor. No. 3) at an erroneous location. Let’s start with Corner No. 1, the SE corner of MS 956A, and see the description of the four corners of MS 956A Diana Lode.

Corner No. 1 was located, in its original position, as described.
Corner No. 1 - "Set a post 12 ins square 4-1/2 ft long 1-1/2 ft in the ground with mound of earth…" and scribed 2 bearing trees.
Sets wood post at “center end” then to Corner No. 2 (NE corner) “A pine stump in place 18 ins in diam 3-1/2 ft high...”
Corner No. 3 (NW corner) “A pine stump in place inches in diam 3 ft high…” and scribed 2 bearing trees.
Corner No. 4 - "Set a pine post 6 ins square 4-1/2 ft long 2 ft in the ground with mound of stone…" and scribed 2 bearing trees.
Summary of the monuments set at the four (4) corners of MS 956A Diana Lode. Note the added bearing-distance data. We will discuss this a little later.
Let’s examine Mineral Survey No. 1129 that connects along portions of the north and east sides of MS 956A Diana Lode.
While searching for the 18” diameter pine stump, 3-1/2’ high, at Corner No. 2 of MS 956A, we found a 20” diameter pine with an open blaze and visible scribing “956A.”
Corner 2 of 956A was supposed to be an 18" diameter pine stump scribed “2 956A.”

Noting that MS 1129 bordered MS 956A on a portion of the east and north lines we referred to the descriptions of the corners for “Ratler, Extension of the Sucker, and Banner Lodes.” This 20" diameter pine, with open blaze and visible scribing, was determined to be the corner common to 2/956 A, 1/1129, and 13/1129 as described in the field notes for MS 1129. No evidence of the 18" diameter scribed pine post could be found.
Field notes for Corner 1, Ratler Lode, MS 1129 described as a pine tree (no diameter given) marked (scribed) 2/956 A, 1/1129, 13/1129.
Field notes for Corner 13, Banner Lode, MS 1129 described as a pine tree (no diameter given) marked (scribed) 2/956 A, 1/1129, 13/1129.

Thence along Line 2-3, MS 956A, to corner 14 of the Banner Lode.
The MS 1129 plat shows Extension of Sucker & Banner are common with portions of lines 1-2 & 2-3 of MS 956A.

1/956 (MS 956A), 1/1129 (Ratler), and 13/1129 (Banner) are common corners and 1/1129 (Banner) is shown and called for as being on Line 2-3 of MS 956A Diana Lode.
Corner 8/1129 of Extension of Sucker is on line 1-2 of MS 956S, Diana Lode.

We can see that Corner 1 of MS 956A is common with Corner 1 Ratler/Cornor 13 Banner of MS 1129.

There is also a triangle of “Public Domain Land” (132.8’ x 60’ x 127’) sandwiched between MS 956A and MS 1129. This area is approximately 3810 square feet (0.087 acre, more or less).
We acquired a copy of an unrecorded survey, by a local private surveyor, dated July 1975. MS 956A Diana Lode Corner No. 3 is circled above.
RESURVEY OF RESCUE GOLD MINES

Gibbonsville, Idaho
July 1915

Note:
Control points measured with H.D. 4800 Distance Meter and Wild 713 Theodolite.

Corners, not found, re-established by Proportionate Method. All corners painted orange with orange and blue flagging.
Note the record (S 0°37' W, 590.00') and measured (N 4°51’47” W, 612.20’) data between R-4 (a found corner for Corner 4/956A) and R-5 (a set corner for 3/956A).

R-3 was set from two original bearing trees.  R-4 is an original post.  R-5 is a 5/8” x 30” Steel Bar (no evidence found).
Bent rebar in mound of stone, with orange & blue flagging per “Note” on unrecorded plat, set by a local private surveyor, in 1975, for Corner No. 3, MS 956A Diana Lode.

Examination of the unrecorded plat shows that Corner 3 MS 956A was reestablished at near exact distance computed from the record distance between line 2-3, MS 956A, minus the record distance between line 13-14, MS 1129 (Banner) and on the extension of said 13-14 line.

This solution creates an end line dimension that is rotated approximately 5-1/2 degrees counterclockwise, and 22.2 feet longer than the record data for line 3-4 of the MS 956A Diana Lode.
Corner No. 4 of MS 956A was found firmly set in an embedded mound of stone with evidence of one original bearing tree (badly decomposed, no visible scribing).

Notice the added bearing and distance along the south line of MS 956A. There is a 1°33' bearing and 48.8 feet difference between the record and the added bearing/distance note along line 4-1 of MS 956A Diana Lode.

With this information we found corner 14/1129 (Banner) and measured the calculated distance from said corner to 3/956A (235.8 feet), minus the shortage noted along line 4-1/956A (235.8 – 48.8 = 187 feet). Measuring the 187 feet on an extended line from line 13-14/1129 we fell within 1 foot of a recently (low) cut pine stump with a portion of an overgrown blaze previously cut out and lying alongside the pine stump. There was no visible scribing on the blaze that someone had previously examined. We concluded that Corner 3, MS 956A, may have been upgraded during the MS 1129 survey and this pine stump was accepted as the best available evidence of the location of said Corner 3.

With this decision the “Extralateral Rights” have been shortened approximately 50 feet. We did not make this decision lightly.
The low-cut pine stump with the portion cut out revealing a flat face at about 5 inch into the stump.
A vertical view of the overgrowth seam and the flat face on the suspected (accepted) pine tree stump for Corner 3, MS 956A.
Original scribed wood post for Corner No. 4 (SW corner) of MS 956A, on left, and surveyor pointing to the rotted remains of a bearing tree witnessing said Corner No. 4.
A portion of Mineral Survey 3074 is noted as being common with line 4-1 of MS 956A. Let's examine the field notes along line 4-5 of MS 3074 Ureka Lode.
It appears that Corner 4, MS 956A was tied in during the survey of MS 3074, Ureka Lode, while at Corner 5 of said Lode. Let’s examine the field notes for the Ureka Lode.
Do you believe this is an actual tie? Let’s read another portion of the field notes that should never be overlooked – the “REPORT” that begins on page 14 of the field notes.
This tie was faithfully made as evidenced by the 1975 unrecorded survey and our 1979 dependent resurvey.
The rebar set by the surveyor during his unrecorded survey of this block of mineral surveys. The surveyor in the upper left is examining the remains of one of the original bearing trees for Corner 5, MS 3074, Ureka Lode.
Forest Service Bearing Tree sign and one of the bearing trees for Corner 5, MS 3074, Ureka Lode.
Summary diagram for Corners 3 and 4 of MS 956A Diana Lode.
Typically, measurements to a mineral survey bearing tree are made to an “X” on the face of the blaze – not the center of the tree as directed for corners of sectionalized township surveys.
Freshly cut bearing tree for the remains of the sub-surface mineral survey corner post.
Remains of a sub-surface mineral survey corner post found by intersecting a distance-distance tie from the nearest found mineral survey corners.
Distant surveyor next to one of two mineral survey bearing trees that were 15° apart, same species and similar distance from the mineral survey corner that appears to have been destroyed during the recent road construction. To determine which bearing tree was discovered required ties to the nearest found mineral survey corners then calculating a position for the missing mineral survey corner. Both bearing trees were marked identically.
1979 Dependent Resurvey of all or portions of 37 different Mineral Surveys and 1 Townsite Survey.
After the suspected illegal timber harvest was discovered, and reported to the proper Forest Service legal authorities, a Federal Judge ordered that the area of suspected illegal timber harvesting be identified and platted within 5 weeks. The dependent resurvey spanned 24 “long days” with 35 Forest Service surveyors and survey technicians. Immediately thereafter the dependent resurvey plat was completed and preparations for a federal court case were initiated.

Enlargements of portions of the 1979 Forest Service Dependent Resurvey of a portion of the Mineral Surveys in the vicinity of Gibbonsville, Idaho.
Sheet 1 of 1979 Dependent Resurvey of all or portions of 37 different Mineral Surveys and 1 Townsite Survey.
Sheet 2 of 1979 Dependent Resurvey. Details reveal several gaps and overlaps not of record.
Sheet 2 of 1979 Dependent Resurvey. Details reveal several gaps and overlaps not of record.
Sheet 3 of 1979 Dependent Resurvey. More gaps and overlaps not of record.
Sheet 4 of 1979 Dependent Resurvey. Table of record and measured bearings and distances along all or portions of 37 mining claims.
The original Gibbonsville Townsite is surrounded by Mining Claims and its location is indicated by the nine red backwards “L” figures and highlighted with red lines.
An exemption in MS 3074 Lookout that has been overlooked and an A-Frame home has been built on Forest Service land.

The Bellview MS 1399 is found to be encroached 32.35 feet into the Gibbonsville Townsite.
Numerous private homes have been built on National Forest land along the Dahlonega Creek road.

Our dependent resurvey provided an opportunity to resolve a trespass problem that has existed for many years along the road to the community of Gibbonsville.
Numerous private homes have been built on Salmon National Forest land along both sides of the Dahlonega Creek road. The Forest Service agreed to sell the land to Lemhi County – not the individual homeowners. After an appraisal by the Forest Service monies from the landowners was deposited in an escrow account payable to the Forest Service. The lot surveys and deeds were then the responsibility of Lemhi County and the individual homeowners.
“TRACT ONE GIBBONSVILLE TOWNSITE APPLICATION” was prepared, including the location of the existing road and utilities. This served as the basic reference document for purchase of the Forest Service land by Lemhi County, Idaho.
The Tract One Gibbonsville Townsite Application plat shown oriented in relationship to the Dependent Resurvey plat.