

LELAND LEE MYERS

Professional Land Surveyor — Forester

BOX 98 SUMPTER, OREGON 97877
AC 503-894-2264

NARRATIVE OF SURVEY

for Sections 10, 11, 13, 14 & 23, T8S, R35 $\frac{1}{2}$ E, WM, with Mineral Survey Nos. 67, 69, 70, 247, 412 and 822 as surveyed between October 1, 1983, and July 30, 1985, under USDA-Forest Service Contract No. 53-04M3-3-2928 and shown on MAPS OF SURVEY Nos. 3 & 4 of 6 for this survey. Detail for Mineral Surveys 67, 69, 70, 412 and 822 are shown on MAP OF SURVEY No. 5 and has a separate Narrative.

Purpose of Survey

The purpose of the survey was to subdivide the Sections 10, 11, 13 & 14 into aliquot parts and determine the boundaries of the mineral surveys to delineate Forest Service lands from private by monumenting and maintaining all found controlling corners, re-establishing lost corners, monumenting new corners established by survey and marking the property lines with steel fence posts set at a maximum interval of 400 feet with Property Boundary Signs attached.

Survey History

Mineral Survey No. 247, known as the Last Chance Quartz Claim, was performed by Charles M. Foster in June, 1892. He tied his survey to the southeast corner of Section 13, T8S, R35 $\frac{1}{2}$ E, which was originally surveyed by Eugene McCornack in 1882, and monumented by Otis O. Gould during a dependent resurvey of the East boundary of T8S, R35 $\frac{1}{2}$ E, in 1937. The subdivision of T8S, R35 $\frac{1}{2}$ E, was done by W. B. Barr in 1884.

In 1968, James Hambleton, PLS 645, performed retracement surveys of the mineral surveys and subdivided Sections 11, 13 & 14. They were originally recorded on January 1, 1969 in Baker County, then recorded on November 15, 1977, as Grant County Map of Survey No. 473 & 474 for the survey of Sections 11, 13, & 14, and Map of Survey No. 475 for Mineral Survey 247. He amended the section subdivision survey in 1977 and that is recorded as Grant County Map of Survey No. 485. Hambleton set unflared pipes with aluminum caps for the corners which do not meet current Forest Service monument requirements. Hambleton blazed all the property lines and attached Property Boundary Signs to trees.

There are 10 corner monuments used in this survey that were either set or maintained by Forest Service surveyor Harry C. Hildebrand, PLS 1898, in 1982-83 in preparation for this contract.

There were other mineral surveys situated in Sections 22, 27 & 28, T8S, R35 $\frac{1}{2}$ E, that were not surveyed, but some of the corners were remonumented and the property lines posted. Cougar Quartz Claim Mineral Survey No. 362 and Wild Cat Quartz Claim Mineral Survey No. 363 were surveyed by Charles M. Foster in June, 1899. The South Cougar Gold Mining Co. Consolidated Quartz Claims Mineral Survey No. 441 was performed by George Scoggin in August, 1901.

NARRATIVE OF SURVEY continued

Survey Method

The survey method used was random closed traverse that included all the found and monumented corners. Property lines were posted by offsets from the random traverse to the true line. A solar observation was taken near the center of the project to establish a basis for bearings. Horizontal angles were measured to the right and doubled. The horizontal distance was measured from both ends of the line and averaged if the difference was less than 0.10 foot.

Equipment Used

The instrument used for the first 11 traverses was a Leitz SDM3ER Tacheometer with a data collector interface for an HP-41CX and for the remainder of the project an OMNI Total Station with a built-in data collector. Data was transferred to a TRS-80 Model 100 computer which reduced the data, balanced the traverse if within the survey standards specified in the contract and Oregon state law, and executed all computations. Traverse data and computations were printed out on an Epson MX 100 printer. The data and all point coordinates have been saved on cassette tape. A staff compass and 75' steel tape were used to determine the bearing and distance to some of the BTs.

Survey Evaluation

The sections were subdivided in conformance with the Manual of Instruction for the of Public Lands. Unfortunately, the computed corner locations did not correspond with most of the existing section subdivisional monuments. There were only two corners that were nearly identical in location and the points were remonumented to Forest Service requirements. There are 20 corners with dual monumenting that range from 2.5 to 34.5 feet difference with an average distance of about 10 feet. A cause could not be determined, but it appears the discrepancy may have been due to faulty traverses in the earlier survey. Each corner record shows distance and bearing to the Hambleton monument from the monument set by this survey. The scale makes it impractical to show these dual corners on the face of the map.

On Mineral Survey 247, there were 4 corners which were remonumented because the existing monument did not meet current specifications of the Forest Service. Hambleton shows he found the S1/4 of Section 13 during his survey of 1977, but no corner evidence could be found now. It is probable that his survey was done before the area was logged, and it appears the corner fell in a recent skid road. To compound the problem of locating this corner the SW section corner was also not found and had to be proportioned in. Since Hambleton did not have a distance to the SW corner it was not possible to proportion using his distance from the S1/4 to the SE section corner. It was suspected that the corner he found was about 75' west of the proportioned corner location, but without any other substantial evidence, the proportioned corner location was used.

There were 6 corners monumented from found evidence on Mineral Surveys 362, 363 and 441. The NW corner of Section 27 was also monumented from found original evidence.

NARRATIVE OF SURVEY continued

The CERTIFIED RECORDS OF LAND CORNER MONUMENTATION as recorded in the office of the Grant County Surveyor as shown on the attached Proof of Recording and/or indexed on the MAPS OF SURVEY Nos. 3 & 4 for each corner set or maintained by this portion of the survey are hereby made a part of this narrative to provide detailed corner information. All recorded documents for this project contain the Forest Service contract number as shown above as a cross reference and identifier for this survey.

Respectfully submitted this 9th Day of October, 1985, by Leland Lee Myers, P.O. Box 98, Sumpter, OR 97877.

FILED

IN THE OFFICE OF THE GRANT COUNTY SURVEYOR
THIS 16 DAY OF OCT, 1985

Robert R. Baggett, Co. Sur.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Leland Lee Myers

OREGON
JULY 9 1965
LELAND LEE MYERS
699

PROOF OF RECORDING

The following **CERTIFIED RECORDS OF LAND CORNER MONUMENTATION** for T8S, R35¹/₂E, WM, were received from Leland Lee Myers, PLS 699 on October 9, 1985, to be entered into the official county surveyor records.

	Claim Name	Corner Nos.	No. of Corners Monumented Maintained
MS 247	Last Chance Quartz Claim	1-4 SW End & NE End	6
MS 362	Cougar Quartz Mine	3-4	2
MS 441	South Cougar Gold Mining Co. Consolidated Quartz Claims		
	Eureka Lode	1-2	2
	Excelsior Lode	1-2	2
T8S, R35 ¹ / ₂ E Section and Quarter Corner Index Nos.			
E-15, E-17, E-19			
F ¹ / ₄ -15 ¹ / ₂ , F ¹ / ₄ -16 ¹ / ₂			
F ¹ / ₂ -16 ¹ / ₂ , F ¹ / ₂ -17			
G-15, G-15 ¹ / ₂ , G-17, G-17 ¹ / ₂ , G-19, G-21			
G ¹ / ₄ -15 ¹ / ₂ , G ¹ / ₄ -16 ¹ / ₂			
G ¹ / ₂ -16 ¹ / ₂ , G ¹ / ₂ -17, G ¹ / ₂ -17 ¹ / ₂ , G ¹ / ₂ -18 ¹ / ₄			
H-17, H-17 ¹ / ₂ , H-18 ¹ / ₄ , H-18 ¹ / ₂			
H ¹ / ₂ -17 ¹ / ₂ , H ¹ / ₂ -17 ³ / ₄ , H ¹ / ₂ -18 ¹ / ₂ , H ¹ / ₂ -19, H ¹ / ₂ -21			
H ³ / ₄ -17 ³ / ₄ , H ³ / ₄ -18 ¹ / ₄			
J-18 ¹ / ₄ , J-19 ¹ / ₂ , J-21, J-22, J-23			
J ¹ / ₂ -19 ¹ / ₂ , J ¹ / ₂ -21, J ¹ / ₂ -21 ¹ / ₂			
K-21 ¹ / ₂ , K-22			
L-19, L-21, L-23			
N-19, N-21, N-23 and			
P-21 and R-13			
			48
Total Corners Submitted With Maps 3 & 4 For T8S, R35 ¹ / ₂ E, WM			60

I hereby certify that the **CERTIFIED RECORDS OF LAND CORNER MONUMENTATION** listed above have been filed in the Office of the Grant County Surveyor this 16 day of Oct, 1985



 Grant County Surveyor

LELAND LEE MYERS

Professional Land Surveyor — Forester

BOX 98 SUMPTER, OREGON 97877

AC 503-894-2264

NARRATIVE OF SURVEY

for Mineral Survey Nos. 67, 69, 70, 412 and 822 in Sections 14 & 23, T8S, R35 $\frac{1}{2}$ E, WM, as surveyed between October 1, 1983, and July 30, 1985, under USDA-Forest Service Contract No. 53-04M3-3-2928 and shown on MAP OF SURVEY No. 5 of 6 for this survey to provide additional detail for the mineral surveys in support of MAPS OF SURVEY Nos. 3 & 4.

Purpose of Survey

The purpose of the survey was to determine the boundaries of the mineral surveys to delineate Forest Service lands from private by monumenting and maintaining all found controlling corners, re-establishing lost corners, monumenting new corners established by survey and marking the property lines with steel fence posts set at a maximum interval of 400 feet with Property Boundary Signs attached.

Survey History

Mineral Surveys 66, 67, 69 and 70 were done by Charles M. Foster between October, 1877 and June, 1880. Foster was required to revise MS 69, known as the Horace Worcester Rock Claim in June, 1880, as well as the Boston and Gold Hill Quartz Claims, MS 67 & 70, in July, 1881. Mineral Survey No. 359 of the Tamarack, Floy, Don, Kenneth, Delilah, Harold, Big Blue, Carrie and Ted Lodes was performed by Edwin A. Sperry in March, 1899. Neither MS 66, John F. Wiegman's Rock Claim No. 99, or MS 359 were ever patented, however MS 359 was considered in the lotting of Sections 22 & 23.

Charles Foster surveyed the Buffalo Consolidated Quartz Mine, Mineral Survey No. 412, in November, 1900. The Buffalo Mill Site, MS 822, was surveyed by Chris G. Dobson during April, 1924. The subdivision of T8S, R35 $\frac{1}{2}$ E, was done by W. B. Barr in 1884.

In 1968, James Hambleton, PLS 645, performed retracement surveys of the mineral surveys. They were originally recorded on January 1, 1969 in Baker County, then recorded on November 15, 1977, as Grant County Map of Survey No. 472 for Mineral Surveys 67, 70, 412 and 822 and Map of Survey No. 476 for Mineral Survey 69. Hambleton set unflared pipes with aluminum caps for the corners, which do not meet current Forest Service monument requirements. Hambleton blazed all the property lines and attached Property Boundary Signs to trees. James Hanley monumented the W1/4 of Section 23 in 1977.

Survey Method

The survey method used was random closed traverse that included all the found and monumented corners. Property lines were posted by offsets from the random traverse to the true line. A solar observation was taken near the center of the project to establish a basis for bearings. Horizontal angles were measured to the right and doubled. The horizontal distance was measured from both ends of the line and averaged if the difference was less than 0.10 foot.

NARRATIVE OF SURVEY continued

Equipment Used

The instrument used for the first 11 traverses was a Leitz SDM3ER Tacheometer with a data collector interface for an HP-41CX and for the remainder of the project an OMNI Total Station with a built-in data collector. Data was transferred to a TRS-80 Model 100 computer which reduced the data, balanced the traverse if within the survey standards specified in the contract and Oregon state law, and executed all computations. Traverse data and computations were printed out on an Epson MX 100 printer. The data and all point coordinates have been saved on cassette tape. A staff compass and 75' steel tape were used to determine the distance and bearing to some of the BTs.

Survey Evaluation

Mineral Surveys 66, 67, 69 & 70 were very poorly done in the original survey, the corners being marked only by wood posts with mounds and no bearing trees or other accessories were established. The only, more or less, permanent point established at the time of these surveys, according to the original notes, was a Mineral Monument. This monument consists of an iron pin (the type used to hang lanterns on tunnel walls) driven into a granite boulder. The 1880 Mineral Monument, which was established during Mineral Survey 66, was found by Hambleton in 1968; but he apparently did not use or check the tie made to the monument from Mineral Surveys 67 & 70.

Although not patented, Mineral Survey No. 359 was tied to unpatented MS 66 which, in turn, was tied to patented Mineral Survey 67; and MS 359 was well referenced, according to the record. An unsuccessful effort was made to find corners 1 and 2 of the Ted Lode because of their proximity to the Gold Hill. The tie to the W1/4 of Section 23 was also checked in an effort to find Ted 1-359, but it proved to be of no help in recovering original corner evidence. The area has been logged, with skid roads covering a large percentage of the ground. The approximate location of the north center end post of MS 66 falls near the fork of two logging roads and the area has been seriously disturbed.

At Hambleton's Boston 3 corner, a rotted-off sawn wood post with green paint lettering saying Boston 3 and Massachusetts 1 was found. No evidence could be found to support this post as representing the original Corner No. 3 of the Boston claim. Hambleton's common corner for the Boston 1 and Gold Hill 1 was not located on a south slope as indicated in the original notes, but on the top of the ridge. In searching for the corner on the south slope, an unrecorded line tree scribed "JWL" on line 4-1 of the Boston was found. This tree was about 220', SE of the Hambleton corner. The tree had been felled during a logging operation in the last 10-20 years and was, fortunately, a cull. By counting the growth rings over the blazes it was determined that the blazes on both sides of the tree and facing the proper directions for this line were scribed a minimum of 90 years ago. Therefore, it was assumed to have been made at the time of the original survey.

Also very old blazes without apparent scribing were found on what seemed to be lines 6-1, 4-5 and 2-3 of the Gold Hill. Using the blazes as control, approximate claim corners were computed then another thorough search was made around the corner locations. At Gold Hill 5-70 a post, being a chopped off and squared tree, scribed FR 4 (should have been FR 5) on the 2 sides facing the lines of the claim was found lying on the ground about 5' from the computed location. Hambleton's corner FR 5-70 bears N37° 26' 30"W, 284.52 feet. About 10' east of the computed corner for Boston

NARRATIVE OF SURVEY continued

4 and Gold Hill 2 a similar type of post was found still standing, but no scribing could be found. Because other location posts were found in the general area of this point it was decided to not use this post which lacked the needed positive markings. No other corner evidence for the Boston MS 67 and Gold Hill MS 70 was found.

The original distances and bearings around the Gold Hill did not close by about 13 feet. Therefore, the courses were adjusted using the compass rule before determining final corner locations. The corners for MS 67 were called JWL for the claimant John W. Larkins, and MS 70 were called FR for the claimant Fred Ruhnke. Because of the Hambleton monuments being marked in this manner and the potential confusion of corner identity by use of the claimants initials, it was decided to use the Boston and Gold Hill claim names on the monuments and BTs set by this survey.

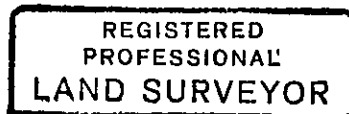
Charles Foster, having done both MS 67 and MS 412, never indicated any overlap of the two claims. but using record distance for determining the Boston 2 and 3 corners, does create an overlap of approximately 20' across the SE corner of the Buffalo.

No evidence of the Horace Worcester Mineral Survey No. 69 could be found. Only the tie to the 1880 Mineral Monument was available to determine the claim's location. Jim Hambleton must have misread the tie bearing and went N85° 10'W from the Mineral Monument rather than S85° 10'W as shown on the original plat and stated in the original notes. Between the need to balance the sides of the claim by compass rule adjustment and indexing the bearings to compare more favorably with bearings between other found points, bearings for this current survey of the claim vary 10-20 minutes from the original record.

There are 8 corners on Mineral Surveys 412 and 822 that were remonumented to bring them up to current Forest Service standards. There are 14 dual corners on Mineral Surveys 67, 69 and 70 and all are shown on the map with their relationship to each other. Since no evidence of the unpatented Mineral Surveys 66 and 359 could be found, they are not shown on the map. An oversight in the lotting of Sections 14 & 23 occurred on the original plat for T8S, R35 1/2 E, when Mineral Surveys 67, 69 and 70 were not shown, but MS 359 was shown even though it was not patented.

The CERTIFIED RECORDS OF LAND CORNER MONUMENTATION as recorded in the office of the Grant County Surveyor as shown on the attached Proof of Recording and/or indexed on the MAP OF SURVEY No. 5 for each corner set or maintained by this portion of the survey are hereby made a part of this narrative to provide detailed corner information. All recorded documents for this project contain the Forest Service contract number as shown above as a cross reference and identifier for this survey.

Respectfully submitted this 9th Day of October, 1985, by Leland Lee Myers, P.O. Box 98, Sumpter, OR 97877.



Leland Lee Myers



FILED

IN THE OFFICE OF THE GRANT COUNTY SURVEYOR
THIS 16 DAY OF OCT, 1985

Robert D. Baggett Co. Sec.

PROOF OF RECORDING

The following CERTIFIED RECORDS OF LAND CORNER MONUMENTATION for T8S, R35¹/₂E, WM, were received from Leland Lee Myers, PLS 699 on October 9, 1985, to be entered into the official county surveyor records.

Claim Name	Corner Nos.	No. of Corners Monumented Maintained	
MS 67 Boston Quartz Claim	1-4	4	
MS 69 Horace Worcester Rock Claim	1-6	6	
MS 70 Gold Hill Quartz Claim	3-6	4	
MS 412 Buffalo Consolidated Quartz Mine Buffalo Lode	1-4 South Center End & North Center End	5	1
Monitor Lode	2,3 South Center End & North Center End	4	
MS 822 Buffalo Mill Site	1-4	4	
Intersect Boston 2-3 MS 67-Buffalo 1-2 MS 412		1	
Intersect Boston 2-3 MS 67-Buffalo 4-1 MS 412		1	
1880 Mineral Monument Set During MS 66			1
Total Corners Submitted With Map 5 For T8S, R35 ¹ / ₂ E, WM		29	2

I hereby certify that the CERTIFIED RECORDS OF LAND CORNER MONUMENTATION listed above have been filed in the Office of the Grant County Surveyor this 16 day of OCT, 1985

Robert D. Bazett
Grant County Surveyor