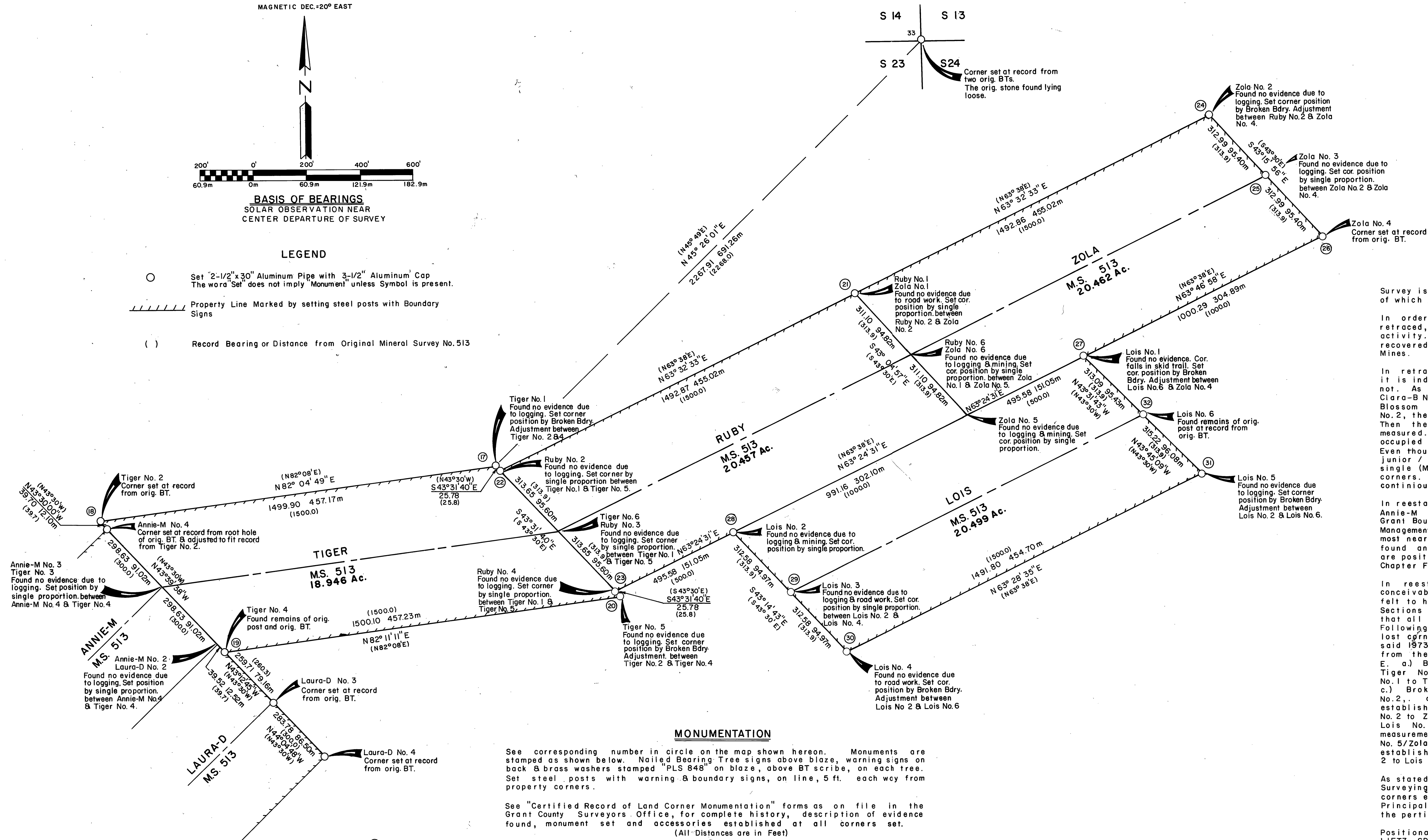


- LEGEND**
- Set 2-1/2" x 30" Aluminum Pipe with 3-1/2" Aluminum Cap  
The word "Set" does not imply "Monument" unless Symbol is present.
  - Property Line Marked by setting steel posts with Boundary Signs
  - ( ) Record Bearing or Distance from Original Mineral Survey No. 513



**MONUMENTATION**

See corresponding number in circle on map shown hereon. Monuments are stamped as shown below. Nailed Bearing Tree signs above blaze, warning signs on back & brass washers stamped "PLS 848" on blaze, above BT scribe, on each tree. Set steel posts with warning & boundary signs, on line, 5 ft. each way from property corners.

See "Certified Record of Land Corner Monumentation" forms as on file in the Grant County Surveyors' Office, for complete history, description of evidence found, monument set and accessories established at all corners set.

(All Distances are in Feet)

17	MS 513 TIGER NO 1 1984 PLS 848	A Pine 10" dia. bears S80°E 8.0, Scribed MS 513 TIGER NO 1 BT A Pine 7" dia. bears N48°W 9.0, Scribed MS 513 TIGER NO 1 BT	25	MS 513 RUBY NO 3 1984 PLS 848	Notched a 10" Fir and drove an aluminum nail at corner position from which: Set an aluminum monument for reference monument, stamped as shown, bears S43°15'56"E 4.15 ft. A Fir 10" dia. bears S 8°E 29.1, Scribed MS 513 ZOLA NO 3 BT A Fir 10" dia. bears S35°W 16.7, Scribed MS 513 ZOLA NO 3 BT
18	MS 513 TIGER NO 2 1984 PLS 848	A Fir 7" dia. bears S76°W 22.2, Scribed MS 513 TIGER NO 2 BT A Pine 9" dia. bears S36°W 29.0, Scribed MS 513 TIGER NO 2 BT	26	MS 513 ZOLA NO 4 1984 PLS 848	A Tamarack 7" dia. bears N38°E 47.6, Scribed MS 513 ZOLA NO 4 BT A Fir 7" dia. bears N 1°W 38.4, Scribed MS 513 ZOLA NO 4 BT
19	MS 513 TIGER NO 4 1984 PLS 848	A Tamarack 10" dia. bears N66°W 9.4, Scribed MS 513 TIGER NO 4 BT A Fir 12" dia. bears South 3.4, Scribed MS 513 TIGER NO 4 BT	27	MS 513 LOIS NO 1 1984 PLS 848	A Spruce 10" dia. bears N20°E 23.2, Scribed MS 513 LOIS NO 1 BT A Fir 7" dia. bears S49°W 23.7, Scribed MS 513 LOIS NO 1 BT
20	MS 513 TIGER NO 5 1984 PLS 848	A Pine 8" dia. bears N47°E 13.1, Scribed MS 513 TIGER NO 5 BT A Fir 12" dia. bears S52°W 21.0, Scribed MS 513 TIGER NO 5 BT	28	MS 513 LOIS NO 2 1984 PLS 848	A Fir 6" dia. bears N65°E 11.6, Scribed MS 513 LOIS NO 2 BT A Fir 10" dia. bears S10°W 3.7, Scribed MS 513 LOIS NO 2 BT
21	MS 513 ZOLA NO 1 1984 PLS 848	A Fir 8" dia. bears S48°E 15.0, Scribed MS 513 ZOLA NO 1 BT A Fir 16" dia. bears S67°W 17.1, Scribed MS 513 RUBY NO 1 BT	29	MS 513 LOIS NO 3 1984 PLS 848	A Fir 9" dia. bears N42°W 8.3, Scribed MS 513 LOIS NO 3 BT A Fir 12" dia. bears S60°W 8.8, Scribed MS 513 LOIS NO 3 BT
22	MS 513 RUBY NO 2 1984 PLS 848	A Pine 14" dia. bears N87°E 25.1, Scribed MS 513 RUBY NO 2 BT A Fir 12" dia. bears N 2°W 13.8, Scribed MS 513 RUBY NO 2 BT	30	MS 513 LOIS NO 4 1984 PLS 848	A Fir 12" dia. bears S24°E 23.5, Scribed MS 513 LOIS NO 4 BT A Fir 12" dia. bears S67°W 23.3, Scribed MS 513 LOIS NO 4 BT
23	MS 513 RUBY NO 4 1984 PLS 848	A Pine 8" dia. bears S36°E 12.8, Scribed MS 513 RUBY NO 4 BT A Pine 10" dia. bears N45°E 33.8, Scribed MS 513 RUBY NO 4 BT	31	MS 513 LOIS NO 5 1984 PLS 848	A Fir 8" dia. bears S 5°E 5.8, Scribed MS 513 LOIS NO 5 BT A Fir 6" dia. bears N49°E 11.9, Scribed MS 513 LOIS NO 5 BT
24	MS 513 ZOLA NO 2 1984 PLS 848	A Fir 12" dia. bears N25°W 27.0, Scribed MS 513 ZOLA NO 2 BT A Fir 6" dia. bears N28°E 22.6, Scribed MS 513 ZOLA NO 2 BT	32	MS 513 LOIS NO 6 1984 PLS 848	A Fir 12" dia. bears N50°E 5.9, Scribed MS 513 LOIS NO 6 BT A Fir 10" dia. bears S37°W 21.3, Scribed MS 513 LOIS NO 6 BT
			33	TIIS R33E S41S13 S231S24 1984 PLS 848	A Tamarack 6" dia. bears N18°W 35.0, Scribed TIIS R33E S14 BT A Pine 20" dia. bears N87°E 37.6, Scribed TIIS R33E S13 BT A Pine 52" dia. bears S 5°E 47.5, Scribed TIIS R33E S24 BT A Pine 6" dia. bears S32°W 21.5, Scribed TIIS R33E S23 BT

**NARRATIVE**

Survey is performed under contract for the Malheur National Forest, the purpose of which is the location & marking of the Dixie Meadows Mine Group.

In order to accomplish this the boundaries of each mine in the group is retraced, recovering all corners which have not been lost to logging and mining activity. Most of the original corners of the Westerly portion of the group are recovered, with very little evidence found around the TIGER, RUBY, ZOLA and LOIS Mines.

In retracing the Westerly portion of the Group, a pattern is developed whereby it is indicated that certain lines were occupied and measured and others are not. As near as can be determined the following measurements were actually made: Clara-B No. 5 to May Blossom No. 4 to May Blossom No. 5, along the end lines of May Blossom and Gladys, from Gladys No. 1 to Gladys No. 2 to Kyuse No. 1 to Kyuse No. 2, then stubbed Southeast along the end lines of Kyuse and Clara-B mines. Then the Northern line of Annie-M and the Easterly End lines of Annie-M are measured. It appears that the Southern lines of Clara-B and Laura-D were not occupied and measured.

Even though the original notes show an order of survey for each claim, no junior / senior lines are considered, as the original survey was conducted as a single (Mineral Survey No. 513), with no priority given to any lines or corners. Also as indicated above a line may have been occupied and run continuously along the lines of several claims.

In reestablishing the lost corners of May Blossom, Gladys, Kyuse, Clara-B, Annie-M and Laura-D, the procedure is a routine process of applying Broken or Grant Boundary adjustment as prescribed in Chapter Five of the Bureau of Land Management, Manual of Surveying Instructions of 1973, using the method which most nearly conform to record measurement, and conform to the conditions as found and described above. Corners reestablished along record straight lines are positioned by single proportionate measurement as prescribed in the said Chapter Five of the Manual of Surveying Instructions.

In reestablishing the lost corners of Tiger, Ruby, Zola and Lois all conceivable methods are considered, striving to adjust along lines which are felt to have been occupied in the original survey. The position of the Corner to Sections 13/14/23/24 is not used in the location of the claims as it is apparent that all ties given are computed in the original survey. Following is a step by step description of the procedure used to position the lost corners of those claims. (All methods are set forth in Chapter Five of the said 1973 addition of the Manual of Surveying Instructions, precedence is gained from the Bureau of Land Management, "Public Lands Surveying, Casebook" Chapter E. a) Broken Boundary adjustment from Tiger No. 2 to Tiger No. 4, establishing Tiger No. 1, and Tiger No. 5. b) Single Proportionate measurement from Tiger No. 1 to Tiger No. 5, establishing Ruby No. 2 Tiger No. 6/Ruby No. 3 and Ruby No. 4. c) Broken Boundary adjustment from Ruby No. 2 to Zola No. 4, establishing Zola No. 2. d) Single Proportionate measurement from Ruby No. 2 to Zola No. 2, establishing Ruby No. 1/Zola No. 1. e) Single Proportionate measurement from Zola No. 2 to Zola No. 4, establishing Zola No. 3. f) Broken Boundary adjustment from Lois No. 6 to Zola No. 4, establishing Lois No. 1. g) Single Proportionate measurement from Ruby No. 4 to Lois No. 1, establishing Lois No. 2 and Ruby No. 5/Zola No. 5. h) Broken Boundary adjustment from Lois No. 2 to Lois No. 6, establishing Lois No. 4 and Lois No. 5. i) Single Proportionate measurement from Lois No. 2 to Lois No. 4, establishing Lois No. 3.

As stated above Chapter Five of the Bureau of Land Management, "Manual of Surveying Instructions", of 1973 is followed in the restoration of the lost corners encountered. In addition Chapter Four is followed in the Monumentation, Principals of Chapter Six are adhered to in performing this dependent resurvey & the pertinent provisions of Chapter Ten are applied.

Positional control for this survey is provided by a closed traverse network. LIETZ SDM 3-E Total Station Electronic Distance Measuring & HP-86B Computer System, with Lewis & Lewis software are used to obtain the measurements and perform the computations. Field Notes and Computations are on file in the office of Ferguson Surveying & Engineering, Mt. Vernon, Oregon.

I, Douglas M. Ferguson, Registered Professional Land Surveyor in the State of Oregon, Hereby certify that this plat, notes and records hereon or attached are a correct representation of the survey I performed during Nov., 1983 and Aug. 1984, for the U.S. Forest Service, in accordance with the statutes of the State of Oregon and the articles of my contract. No. 53-04H1-3 9379N.

Douglas M. Ferguson Or. PLS 848

**RECEIVED AND FILED**

JUL 22 1985

OFFICE OF COUNTY SURVEYOR  
Attest: Carol O'Neil, C. O.

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON  
JUL 12 1985  
DOUGLAS M. FERGUSON  
848

**FERGUSON SURVEYING & ENGINEERING**  
MT. VERNON, OR.

Map of Survey  
RETRACEMENT OF CLAIMS- TIGER, RUBY, LOIS & ZOLA  
OF THE DIXIE MEADOWS MINE GROUP- M.S. 513

GRANT COUNTY, OREGON

FOR: Malheur National Forest BY: Douglas M. Ferguson

DATE: Aug., 1984 DRAWN BY: J.D. Brinton SCALE: 1"=200'