SUBDIVISION OF SECTIONS 17 & 20, T.15S., R.32E.
GRANT COUNTY OREGON

FOR: U.S.D.A. Forest Service
BY: Douglas M. Ferguson, Ken Delano, & D. Mitchell Ferguson
DRAWN BY: Mollee Ferguson Wood

Ferguson Surveying & Engineering

Mt. Vernon Oregon
(phone) 932-4520

PORTION OF IZEE CADASTRAL SURVEY

LEGEND

- ○ Set 21/2" x 30 aluminum pipe, with 3 1/2" aluminum cap stamped as shown below on map.
- ● Found monumentation of record, see map & HISTORY below.
- ( ) Record bearing or distance as reported by the original G.L.O. Surveyor.
- *( ) Record bearing or distance as reported by Micheal Spears in 1909, County Surveyor.
- [ ] Record bearing or distance as reported by G.L.O. Survey in 1939.
- *< > Record bearing or distance as reported by P.L.S. 598 in 1972, from map of survey no. 398.
- < > Record bearing or distance as reported by P.L.S. 848 in 1983.
- //// Marked forest boundary by steel post with boundary signs at max. intervals of ≈ 250'.
- x——x Fence line.
- Location of original Line Tree as called for in the original notes.

Mag. Dec. = 20°E

500' 0 500' 1000' 1500'
1524m 0 152.4m 304.8m 457.2m

SCALE: 1" = 500'

BASIS OF BEARINGS

SOLAR OBSERVATION WITH TRUE MERIDIAN THROUGH CENTER LINE SECTIONS 17 & 20.

HISTORY

In 1881, S.W. Lackland, under General Land Office Contract. No. 384, made the original survey of the Subdivisional Lines of the West two tiers of sections and sections 21, 22, 27, 28, 33 and 34 of T. 15S., R. 32E.,

In 1909, Grant County Surveyor of that time, Michael Spears, subdivided Section 20, T. 15S., R. 32E., That Survey consisted of the location of the NE Cor., and all the 1/4 corners of that section. He then established the N1/16 S19/S20, the NW1/16 S20, the C-N1/16 S20, the C-W1/16 S20 and the C1/4 S20. The C1/4 of which was not monumented or marked on the ground. Those corners are established by Spears by running random lines on cardinal directions, setting corners at 20 chain intervals then establishing true corner positions as corrected for fallings at the end of each measurement. In analyzing Spears Survey it is found that the computations for the offsets from random to true position are in error in the positioning of all the corners established except the N1/16 S19/S20.

In 1939, Geo. F. Rigby, Cadastral Engineer of the General Land Office made a dependent resurvey of subdivisional lines and completed the Subdivision of T. 15S., R. 32E. under special instructions dated March 19, 1938. As pertinent to this survey, Rigby found and remonumented the corner to sections 16/17/20/21 and found and remonumented the East 1/4 S17 and the Corner of Sections 8/17, then established the West 1/4 S16 at S 0°08' W., 1.46 chains from the East 1/4 S17 and the corner of sections 9/16 at the intersection of the sections line S 0°01' E., 1.19 chains from the corner of sections 8/17, thus creating double corners along the east line of section 17.

In 1972, R.D. Bagett, PLS 598 remonumented the corners of sections 19/20/29/30 and 20/21/28/29, as based of original evidence.

In 1976, R.D. Bagett, PLS 598 remonumented the corner of section 17/18/19/20, as based on original evidence.

In conjunction with Map of Survey No. 398, of the Grant County Survey Records, R.D. Bagett, PLS 598 retraced the line between sections 20/29 and remonumented the 1/4 cor. S20/S29.

In 1983, this Surveyor, PLS 848 set the E1/16 S20/S29 while performing joint survey for the U.S.F.S. and Pat Chambers.

NARRATIVE

This Survey is performed under contract for the Malheur National Forest, the purpose of which is the establishment and marking of the Forest Boundaries as shown on this map.

In order to perform the required subdivision of the Sections a retracement of the boundaries is made. All the corners as established and set by the 1939 General Land Office Survey and all the recently monumented corners as established and set by PLS 598 and PLS 848 are found in good condition and located. The 1/4 S8/S17 is lost to logging and fire and is established at proportionate measure between the corner of sections 7/8/17/18 as established from original evidence and the LINE TREE as found East from the lost 1/4 corner. The 1/4 S18/S17 and 1/4 S17/S20 are established as based on original evidence, thus providing the required subdivision of Section 17. The 1/4 S19/S20 is lost to cultivation and is established at proportionate measure between the N1/16 S19/S20 as properly established by Michael Spears, in 1909 and the original LINE TREE found South of the lost 1/4 corner. The 1/4 S20/S21 is established from original evidence. A search is made for the C-W & C-N 1/16 S17 as established by Spears and both corners are determined to be lost to cultivation. Section 17 is then subdivided as required. See the map below for measurements and required subdivisions.

The "CERTIFIED RECORD OF LAND CORNER MONUMENTATION" forms as referenced to this Map and the notes show on the Map should be considered a substantial part of this "NARRATIVE", as they contain the detailed information as to the evaluation of evidence found and monumentation work performed.

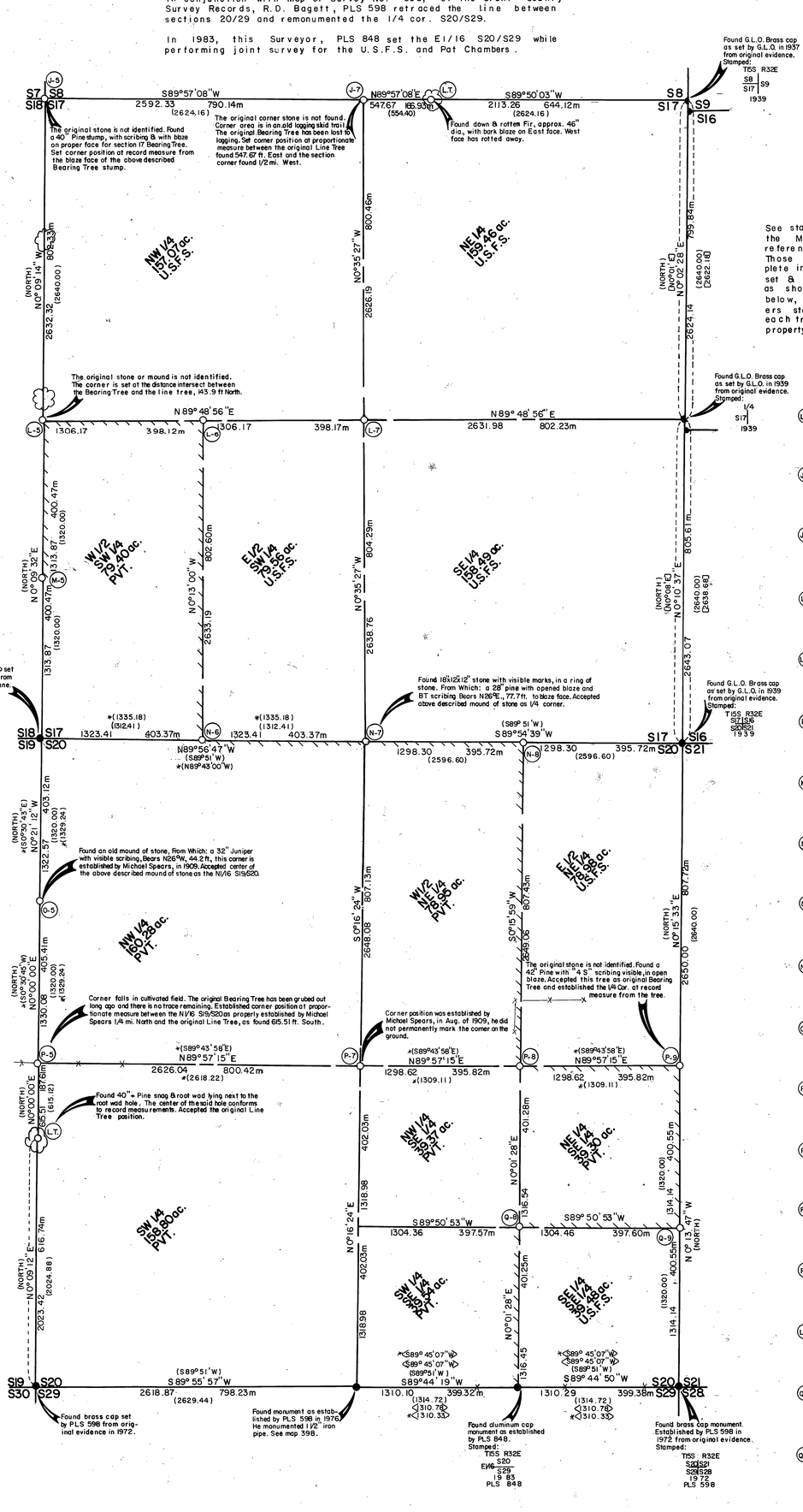
Positional control for this survey is provided by a closed traverse network. LIETZ SDM 3E, Electronic tacheometer is used to obtain the measurements and HP-86B computer system is used to perform the computations. Field Notes and computations are on file in the office of "FERGUSON SURVEYING & ENGINEERING", 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 referenced are a correct representation of the survey I performed during, September & October of 1987 for the U.S. Forest Service, in accordance with the statutes of the State of Oregon and the articles of my contract, No. 53-04H1-6-0122N

Douglas M. Ferguson, Or. PLS 848.

MONUMENTATION

See standard U.S.F.S. "INDEX NO.", in the circle below and on the corresponding circle on the Map to the Left. Refer to "CERTIFIED RECORD OF LAND CORNER MONUMENTATION" form, as referenced to this Map of Survey and filed in the office of the Grant County Surveyor. Those forms give complete details as to the history, pertaining to these corners, as well as complete information as to the evidence found, the method of establishment, description of monuments set & accessories established. Monumentation basically consists of the following: Monuments as shown in the LEGEND are stamped as shown below. Bearing Trees are established as shown below, with Bearing Tree signs nailed above the blaze, Warning signs nailed on the back, brass washers stamped PLS 848 nailed on the blaze above the BT scribing & painted a 6" red band around each tree. Set steel post with warning and/or boundary signs on the property line, each way from property corners & within 5 ft., in a cardinal direction from controlling corners.



L-T: T15S R32E LINE TREE S8 S17 1987 RLS 848	Pine 10" dia., Bears N11°W., 12.7ft., scribed: LINE TREE S8 BT Pine 8" dia., Bears S29°W., 17.0ft., " LINE TREE S17 BT
J-7: T15S R32E 1/4 S8 S17 1987 RLS 848	Pine 12" dia., Bears N37°W., 11.3ft., scribed: 1/4 S8 BT Pine 12" dia., Bears S56°W., 9.6ft., " 1/4 S17 BT
J-8: T15S R32E S7 S18 S18 S17 1987 RLS 848	Pine 12" dia., Bears N12°W., 45.9ft., scribed: T15S R32E S7 BT Pine 12" dia., Bears N23°E., 19.2ft., " T15S R32E S8 BT Pine 8" dia., Bears S10°E., 23.6ft., " T15S R32E S7 BT & 5/8"x30" iron pin with plastic cap stamped SURVEY MARKER PLS 848, Bears S45°W., 6.2ft.
L-9: T15S R32E 1/4 S8 S17 1987 RLS 848	Pine 6" dia., Bears S18°E., 3.9ft., scribed: 1/4 S17 BT Pine 14" dia., Bears N37°W., 5.7ft., " 1/4 S18 BT
L-6: T15S R32E W1/16 C-N C-W S17 1987 RLS 848	Juniper 8" dia., Bears N14°E., 95.9ft., scribed: C-W 1/16 S17 BT Juniper 12" dia., Bears S59°E., 86.0ft., " C-W 1/16 S17 BT
L-7: T15S R32E C1/4 S17 1987 RLS 848	Pine 7" dia., Bears N54°W., 63.4ft., scribed: C1/4 S17 BT Pine 14" dia., Bears N69°E., 23.6ft., " C1/4 S17 BT
M-9: T15S R32E S1/16 S18 S17 1987 RLS 848	Pine 16" dia., Bears N74°E., 74.1ft., scribed: S1/16 S17 BT Pine 12" dia., Bears S59°W., 31.0ft., " S1/16 S18 BT
N-8: T15S R32E W1/16 S17 S20 1987 RLS 848	Pine 12" dia., Bears N22°W., 12.1ft., scribed: W1/16 S17 BT Pine 16" dia., Bears S 3°E., 37.7ft., " W1/16 S20 BT
N-7: T15S R32E 1/4 S17 S20 1987 RLS 848	Juniper 18" dia., Bears N30°E., 43.0ft., scribed: 1/4 S17 BT Juniper 12" dia., Bears S 5°E., 22.5ft., " 1/4 S20 BT
N-6: T15S R32E E1/16 S17 S20 1987 RLS 848	Juniper 8" dia., Bears N74°W., 54.8ft., scribed: E1/16 S17 BT Pine 28" dia., Bears S82°E., 21.0ft., " E1/16 S20 BT
O-5: T15S R32E N1/16 S19 S20 1987 RLS 848	Pine 18" dia., Bears N24°E., 81.1ft., scribed: N1/16 S20 BT Pine 22" dia., Bears S 3°W., 97.3ft., " N1/16 S19 BT
P-9: T15S R32E 1/4 S20 S21 1987 RLS 848	Pine 8" dia., Bears S64°W., 3.7ft., scribed: 1/4 S20 BT Pine 6" dia., Bears S80°E., 29.9ft., " 1/4 S21 BT
P-8: T15S R32E E1/16 C-E S20 1987 RLS 848	Set 5/8"x 30" iron pins with plastic caps stamped SURVEY MARKER PLS 848 and guard post with Bearing Tree, Warning and Boundary signs, as follows: N00°16'E., 10.0ft., & N89°57'E., 10.0ft.
P-7: T15S R32E C1/4 S20 1987 RLS 848	Set 5/8" x 30" iron pins with plastic caps stamped SURVEY MARKER PLS 848 & guard posts with Bearing Tree, and Warning signs as follows: North 3.0ft. & West 3.0ft. from corner.
P-6: T15S R32E 1/4 S19 S20 1987 RLS 848	Set 5/8"x30" iron pins with plastic caps stampe SURVEY MARKER PLS 848 and guard posts with Bearing Tree and Warning signs as follows: East 30.0ft., & West 30.0ft. from corner.
L-T: T15S R32E LINE TREE S19 S20 1987 RLS 848	Pine 12" dia., Bears S28°W., 52.8ft., scribed: S19 LINE TREE BT Pine 14" dia., Bears S45°E., 41.4ft., " S20 LINE TREE BT
O-9: T15S R32E SE1/16 S20 1987 RLS 848	Pine 7" dia., Bears N82°E., 7.4ft., scribed: SE1/16 S20 BT Pine 14" dia., Bears N81°W., 14.3ft., " SE1/16 S20 BT
O-9: T15S R32E S1/16 S20 S21 1987 RLS 848	Pine 22" dia., Bears N57°W., 7.2ft., scribed: S1/16 S20 BT Juniper 6" dia., Bears S50°E., 27.2ft., " S1/16 S21 BT

RECEIVED AND FILED
MAY 7 1988
OFFICE OF COUNTY SURVEYOR
GRANT COUNTY, OREGON

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON JULY 16, 1968
DOUGLAS M. FERGUSON 848

MAP OF SURVEY NO. 1016