

CHAINS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES  
OF THE  
METES-AND-BOUNDS SURVEY OF THE REVISED  
NORTH BOUNDARY OF CRATER LAKE NATIONAL PARK,  
**TOWNSHIP 29 SOUTH, RANGE 6 EAST,**  
OF THE WILLAMETTE MERIDIAN,  
IN THE STATE OF OREGON.

EXECUTED BY

*Daniel E. Weller, Cadastral Surveyor*

Under Special Instructions dated September 11, 1990,  
approved September 13, 1990,  
which provided for the surveys included under Group No. 1571,  
and Assignment Instructions dated September 25, 1991.

*Survey commenced October 1, 1991*

*Survey completed July 22, 1992*

## T. 29 S., R. 6 E., Willamette Meridian, Oregon

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The following field notes are those of the metes-and-bounds survey of the Revised North Boundary of the Crater Lake National Park through unsurveyed township 29 south, range 6 east, Willamette Meridian, Oregon.

The history of surveys pertaining to this survey, is as follows.

In 1903, Carl R. Caudle, U.S. Examiner of Surveys, surveyed the Original North and East Boundaries of Crater Lake National Park.

In 1909, the United States Geological Survey remarked the Crater Lake National Park Boundary by setting monuments with brass caps alongside the Mile and Half-Mile Post corners. No field notes were made of this survey.

Public Laws 96-553, dated December 19, 1980, and 97-250, dated September 8, 1982, were enacted to revise and correct the boundary of Crater Lake National Park. The survey of the new boundary was performed in accordance with the legal description and map, dated March 1981, made part of said laws.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated September 11, 1990, for Group No. 1571, Oregon.

The directions of the lines are based on the true meridian as determined by direct solar observations and were carried forward by means of sustained angulation.

Detectable Electronically Energized Particles (DEEP-1™) were buried as memorials at certain corner monuments. The DEEP-1 is composed of strontium encased in a color coded plastic container. The units are 1 inch in diameter, 2½ inches long, weigh 2½ ounces, and are magnetically detectable to an average depth of 8 feet.

The geographic position (NAD 1927) of Angle Point No. 67B, as determined from a tie to Control Station EC 41086, established by the Control Survey Unit, Oregon State Office, Bureau of Land Management, in 1991, is as follows:

Latitude: 43° 05' 16.87" N. Longitude: 122° 00' 12.36" W.

The mean magnetic declination is 18½° East.

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Beginning at the original NE. Corner of Crater Lake National Park (USGS Boundary Monument No. 66), monumented with a concrete post, 1 x 1 ft., firmly set, projecting 3 ft. above ground, mkd. NF on N., NF on E., CLNP NE COR on S., and CLNP NE COR on W. face, with a brass tablet set in center mkd. NO 66, from which the remains of the original bearing trees:

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40.000	<p>A pine stump, 22 ins. diam., bears S. 32 3/4° E., 76 lks. dist., no marks visible on partially healed blaze.</p> <p>A pine stump, 15 ins. diam., bears S. 28½° W., 110½ lks. dist., with scribe marks NE COR CLNP BT visible on partially healed blaze.</p> <p>A root hole, bears N. 54¼° W., 76 lks. dist., alongside of which is lying a pine snag, 18 ins. diam., with scribe marks PLBT visible on partially healed blaze.</p> <p>and new bearing trees</p> <p>A pine, 14 ins. diam., bears S. 89¼° E., 28 lks. dist., mkd. X BT.</p> <p>A pine, 7 ins. diam., bears N. 55° W., 45½ lks. dist., mkd. X BT.</p> <p>N. 10° 00' 00" W., per Public Law 96-553, on line 66-67B on the Revised North Boundary of Crater Lake National Park.</p> <p>Over nearly level ground, through heavy timber.</p> <p>Point selected for witness point No. 1, on line 66-67B, on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP 1 CLNP * 1991</p> <p>from which</p> <p>A pine, 6 ins. diam., bears N. 59 3/4° E., 30½ lks. dist., mkd. X BT.</p> <p>A pine, 10 ins. diam., bears S. 26 3/4° E., 119 lks. dist., mkd. X BT.</p> <p>Continue over nearly level ground.</p>
80.000	<p>Point selected for witness point No. 2, on line 66-67B, on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP 2 CLNP * 1991</p> <p>from which</p> <p>A pine, 8 ins. diam., bears N. 25½° E., 74 lks. dist., mkd. X BT.</p> <p>A pine, 10 ins. diam., bears N. 46¼° W., 54½ lks. dist., mkd. X BT.</p>

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81.50	<p>Dirt road, 15 lks. wide, bears NW. and SE.</p>
113.005	<p>Intersect the southerly right-of-way of State Highway No. 138, Point for Angle Point No. 67B on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">CLNP AP 67B 1991</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 29 ins. diam., bears S. 67 3/4° E., 109½ lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A pine, 9 ins. diam., bears S. 54½° W., 22 lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>From this point, the Bureau of Land Management Control Station No. EC 41086, at Latitude 43° 05' 16.554" N. and Longitude 122° 00' 05.600" W. (NAD 1927), established in 1991 and determined by NAVSTAR Global Positioning System, bears S. 86° 21' 53" E., 7.620 chs. dist. (mean bearing and sea level distance); monumented with an aluminum post, 3 ins. diam., firmly set flush with surface of ground, with aluminum cap mkd. EC 41086 GPS 1991 and a triangle.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 86° 50' 00" W., on line 67B-68B on the Revised North Boundary of Crater Lake National Park, on a tangent along the southerly right-of-way of State Highway No. 138.</p> <p>Ascend over gentle E. slope, through heavy timber.</p>
48.880	<p>Point selected for witness point No. 3, on line 67B-68B, on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP 3 ----- CLNP 1991</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 7 ins. diam., bears N. 55° E., 19½ lks. dist., mkd. X BT.</p>

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97.760	<p>A pine, 6 ins. diam., bears S. <math>31\frac{1}{4}^{\circ}</math> E., 44 lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>Continue ascent over E. slope.</p> <p>To a point of circular curve, point for Angle Point No. 68B on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">CLNP AP68B 1991</p> <p>from which</p> <p>A pine, 7 ins. diam., bears S. <math>2\frac{1}{4}^{\circ}</math> W., <math>32\frac{1}{2}</math> lks. dist., mkd. X BT.</p> <p>A pine, 11 ins. diam., bears N. <math>19\frac{1}{2}^{\circ}</math> W., 13 lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>Thence on line 68B-69B, on the arc of a circular curve to the left, with a central angle of <math>3^{\circ} 13' 30''</math>, having a radius of 15,700.60 ft.</p> <p>Continue ascent over E. slope.</p>
13.390	<p>To a point of tangency, point for Angle Point No. 69B on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">CLNP AP69B 1991</p> <p>from which</p> <p>A pine, 10 ins. diam., bears N. <math>8^{\circ}</math> E., <math>7\frac{1}{2}</math> lks. dist., mkd. X BT.</p> <p>A pine, 7 ins. diam., bears S. <math>49\frac{1}{4}^{\circ}</math> E., <math>25\frac{1}{2}</math> lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/>

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	<p>S. 89° 56' 30" W., on line 69B-70B on the Revised North Boundary of Crater Lake National Park, on a tangent along the southerly right-of-way of State Highway No. 138.</p> <p>Ascend over E. slope, through heavy timber.</p>
45.685	<p>Point selected for witness point No. 4, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP 4 ----- CLNP 1991</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 9 ins. diam., bears N. 87½° E., 27½ lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A pine, 6 ins. diam., bears S. 10¼° W., 36 lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>Continue ascent over E. slope.</p>
90.685	<p>Point selected for witness point No. 5 on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP 5 ----- CLNP 1991</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 12 ins. diam., bears N. 82½° E., 43½ lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A pine, 12 ins. diam., bears S. 75½° W., 15½ lks. dist., mkd. X BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>Continue ascent over E. slope.</p>
131.725	<p>Point selected for witness point No. 1, on line 69B-70B, described in the field notes of the survey of the Revised North Boundary of Crater Lake National Park, in unsurveyed T. 29 S., R. 5½ E., executed concurrently under this same group.</p> <hr/>

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## GENERAL DESCRIPTION

The lands included in the foregoing survey are located in Klamath County about nine miles west of Diamond Lake Junction, Oregon. Access is by way of Oregon State Highway No. 138, which parallels the north boundary and a secondary road.

The area is drained by several seasonal creeks that drain easterly into Tiny Creek. Elevations range from about 5,100 feet above sea level near the original northeast corner of Crater Lake National Park, to about 5,600 feet above sea level near the west boundary of the township.

The soil in the area is sand and pumice stone. Timber in the area is primarily pine. There is very little undergrowth.

There was no evidence of mineral activity noted along the lines surveyed.

The mean magnetic declination is  $18\frac{1}{2}^{\circ}$  East, as shown on the United States Geological Survey quadrangle map "PUMICE DESERT EAST, OREG.,"  $7\frac{1}{2}$  minute series, dated 1985.