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 5½ 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. 5½ 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 5½ 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 Boundary 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. 70B, as determined from a tie to Control Station EC 41085, established by the Control Survey Unit, Oregon State Office, Bureau of Land Management, in 1991, is as follows:

Latitude: 43° 05' 20.33" N. Longitude: 122° 06' 57.36" W.

The mean magnetic declination is 18½° East.

Metes-and Bounds Survey of the Revised North Boundary of Crater Lake National Park, through Unsurveyed T. 29 S., R. 5½ E., Willamette Meridian, Oregon

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Beginning at witness point No. 1, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park, on the southerly right-of-way of State Highway No. 138.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

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	WP 1 _____ CLNP 1991
	from which
	A pine, 10 ins. diam., bears S. 76 3/4° E., 36 lks. dist., mkd. X BT.
	A pine, 12 ins. diam., bears S. 72½° W., 10 lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	From this point, witness point No. 5, on the Revised North Boundary of Crater Lake National Park, on the southerly right-of-way of State Highway No. 138, bears N. 89° 56' 30" E., 41.040 chs. dist., described in the field notes of the survey of the Revised North Boundary of Crater Lake National Park, in unsurveyed T. 29 S., R. 6 E., executed concurrently under this same group.
	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.
	Ascend over E. slope, through heavy timber.
43.200	Point selected for witness point No. 2, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	WP 2 _____ CLNP 1991
	from which
	A pine, 8 ins. diam., bears N. 50 3/4° E., 14½ lks. dist., mkd. X BT.
	A pine, 13 ins. diam., bears S. 10 3/4° W., 10 lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Continue ascent over E. slope.
85.200	Point selected for witness point No. 3, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

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CHAINS	
	WP 3 _____ CLNP 1991
	from which
	A pine, 13 ins. diam., bears S. 49½° E., 29 lks. dist., mkd. X BT.
	A pine, 8 ins. diam., bears S. 22° W., 21½ lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Continue ascent over E. slope.
110.50	Pacific Crest Trail, 5 lks. wide, bears N. 10° E. and S. 10° W.; desc. over W. slope.
126.200	Point selected for witness point No. 4, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	WP 4 _____ CLNP 1991
	from which
	A pine, 8 ins. diam., bears S. 23 3/4° E., 12 lks. dist., mkd. X BT.
	A pine, 16 ins. diam., bears S. 28½° W., 44 lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Continue descent over W. slope.
169.200	Point selected for witness point No. 5, on line 69B-70B, on the Revised North Boundary of Crater Lake National Park.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	WP 5 _____ CLNP 1991
	from which
	A pine, 12 ins. diam., bears S. 42¼° E., 50 lks. dist., mkd. X BT.

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	A pine, 8 ins. diam., bears S. 62¼° W., 43½ lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Continue descent over W. slope.
212.745	Intersect the center line of State Highway No. 209. Point for Angle Point No. 70B, on the Revised North Boundary of Crater Lake National Park.
	Set a railroad spike flush with surface of State Highway No. 209.
	from which
	A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground, for a reference monument, bears S. 64° 56' W., 77½ lks. dist., with brass cap mkd. RM AP70B 51.15 FT CLNP 1991 and an arrow pointing to the corner.
	From this point, the Bureau of Land Management Control Station No. EC 41085, at Latitude 43° 05' 20.294" N. and Longitude 122° 06' 56.201" W. (NAD 1927), established in 1991 and determined by NAVSTAR Global Positioning System, bears S. 87° 31' 45" E., 1.308 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 41085 GPS 1991 and a triangle.
	West, on line 70B-71B on the Revised North Boundary of Crater Lake National Park.
	Over broken ground, through heavy timber.
42.180	Point selected for witness point No. 6, on line 70B-71B, on the Revised North Boundary of Crater Lake National Park.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
	WP 6 CLNP 1992
	from which
	A pine, 7 ins. diam., bears S. 63 3/4° E., 55½ lks. dist., mkd. X BT.
	A pine, 9 ins. diam., bears S. 8° W., 33 lks. dist., mkd. WP6 BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Continue over broken ground, through heavy timber.

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83.835	Point selected for witness point No. 7, on line 70B-71B, on the Revised North Boundary of Crater Lake National Park. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd. WP 7 _____ CLNP 1992 from which A pine, 8 ins. diam., bears N. 74½° E., 11 lks. dist., mkd. X BT. A hemlock, 16 ins. diam., bears S. 23° W., 29 lks. dist., mkd. WP7 BT. Deposit a white "DEEP-1" magnetic marker at base of stainless steel post. Continue over broken NW. slope, through heavy timber.
129.790	Point selected for witness point No. 8, on line 70B-71B, on the Revised North Boundary of Crater Lake National Park. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd. WP 8 _____ CLNP 1992 from which A hemlock, 8 ins. diam., bears N. 56° E., 57½ lks. dist., mkd. X BT. A hemlock, 11 ins. diam., bears S. 40° W., 38½ lks. dist., mkd. WP8 BT. Deposit a white "DEEP-1" magnetic marker at base of stainless steel post. Continue over broken NW. slope, through heavy timber.
175.095	Point selected for witness point No. 9, on line 70B-71B, on the Revised North Boundary of Crater Lake National Park. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd. WP 9 _____ CLNP 1992 from which See C.S. 65/60-37 for 2007 renewal

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	A pine, 20 ins. diam., bears S. 88 3/4° E., 36 lks. dist., mkd. WP9 BT.
	A fir, 8 ins. diam., bears N. 45° W., 30½ lks. dist., mkd. X BT.
	Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.
	Descend over broken NW. slope, through heavy timber.
215.995	Point selected for witness point No. 1, on line 70B-71B, described in the field notes of the survey of the Revised North Boundary of Crater Lake National Park, in unsurveyed T. 28 S., R. 5 E., executed concurrently under this same group.

GENERAL DESCRIPTION

The lands included in the foregoing survey are located in Klamath and Douglas Counties about 15 miles west of Diamond Lake Junction, Oregon. Access is by way of State Highway No. 138, which parallels a portion of the north boundary.

The area is drained by several seasonal creeks that drain northerly into Diamond Lake. Elevations range from about 5,800 feet above sea level near Angle Point No. 70B, to about 5,900 feet above sea level near witness point No. 4.

The soil in the area is sand and pumice stone, with some loam. Timber in the area consists of pine, fir, hemlock, spruce, and cedar. Undergrowth consists of huckleberry and grasses.

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

The mean magnetic declination is 18½° East, as shown on the United States Geological Survey quadrangle map "PUMICE DESERT WEST, OREG.," 7½ minute series, dated 1985.