

SURVEY NARRATIVE TO COMPLY WITH PARAGRAPH 209.250 OREGON REVISED STATUTES

LOCATION: Section 17, Township 33 South, Range 1 East of the Willamette Meridian, Jackson County, Oregon.

PURPOSE: To monument the boundary corners and post line markers along that portion of the Elk Creek Project Boundary being in Section 17, as shown on Segment 2 of the Corps of Engineers Elk Creek Lake Real Estate drawings. The survey was performed during July 1987 through April 1988.

PROCEDURE: Establishing Lambert State Plane Coordinate control:

Second order control monument Station EC-30, established by the Corps of Engineers in 1964, was used as a basis of Lambert State Plane Coordinates (South Zone). The 1974 adjusted coordinates were used. The line from Station EC-30 to Station EC-31, also established in 1964, was used as a basis of bearing. The USCE record bearing from EC-30 to EC-31 = South 30°28'28.5" East.

All bearings and distances shown are on State Plane Coordinate grid. Coordinates and distances are shown to .xxx feet and bearings to .x seconds for mathematical consistancy only and are not intended to imply accuracy of survey.

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An average latitude and elevation were used to compute a single grid factor for each individual survey traverse.

The grid factor at the Station EC-30 is:

Scale factor (latitude N 42 42 02") = 0.9999277

Elevation factor (1600') = 0.9999235

Combined (grid) factor = 0.9998512

All horizontal control established by this survey meets requirements of 3rd Order, Class 1, National Oceanic and Atmospheric Administration specifications for geodetic control.

## Establishing section subdivision control:

The project boundary within Section 17 is dependent upon both the subdivisional lines of the section and metes and bounds descriptions. A series of traverses were run, using an electronic "total station" 1 second theodolite and distance meter, to locate the controlling section monuments and establish coordinates.

Only the southeast corner of Section 17 has been

perpetuated from original evidence. The northwest corner of Section 17 was monumented at a double proportionate position by the BLM in 1965, using the northeast and southwest corners of the section, the section corner to the west common to Sections 7 and 18 only, and the quarter-section corner to the north common to Sections 7 and 8. The northeast corner of Section 17 was monumented by the BLM in 1965, using a 3-way fence intersection. 50 year old unrecorded bearing trees, and the fact that the location had been used for many years as the corner. The southwest corner of the Section 17, which had been perpetuated by the BLM from original evidence, falls in an area which has been cleared for quarry operations in conjunction with the dam construction. No evidence of the monument or corner accessories remains. The coordinate location was determined by references taken by Hoffbuhr & Associates. Inc., shortly before the corner was obliterated, The north, west, and east quarter-section corners of Section 17 were monumented by the BLM at single proportionate position. The monument at the west quarter-section corner was evidently replaced by the US Corps of Engineers in 1973. The south quarter-section corner was monumented by the BLM in 1956 from parol evidence.

The positions of these monuments in relation to the controlling corners used for the proportioning were checked for accuracy. Also, a ground search was made for evidence of the original survey. No additional evidence was found.

As shown on the map on sheet 1, the monuments found at the north, east and center quarter-section corners, the

sixteenth-section corners on the east and west boundaries of the section, and the center-west and center-north sixteenth-section corners were not used for this survey. They were considered to be cutside of the allowable "limits of closure" as outlined in the 1947 and 1973 editions of the Manual of Surveying Instructions, using a ratio of 1/1280 for latitude and departure independently. No monuments were set at the computed positions except for the center-north and center-west quarter-section corners, since they are both angle points on the project boundary.

The westerly boundaries of Tracts 205/2 and 205/3 were both determined by metes and bounds as described in Instrument No. 74-08008 of the Official Records of Jackson County, with each boundary being 200 feet westerly of and parallel with a described line.

Using the section control determined as described above. Section 17 was subdivided and monumented as shown on the plat on sheet 1. The intermediate project boundary monuments were positioned for intervisibility.

SECTION CONTROL - (Bearings oriented to true north)

FOUND:

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Northeast corner of Section 17: Found, the BLM brass cap set in 1965, on a 2" diameter pipe exposed 12", and the following bearing trees; 15" black cak, blazed in 1965, bears N 73°11'E 76.1 ft. 16" fir with lower healed blazes of unknown origin, bears S 51°36' E 111.6 ft.

Northwest corner of Section 17: Found, the BLM brass cap set in 1965, on a 2" diameter pipe exposed 13", and the following bearing trees; 10" fir snag with healed blazes bears N 10° E 23.7 ft. 8" fir, dead and down, scribing visible, bears S 52° E 27.2 ft. to the stumphole.

13" fir snag, with healed blazes, bears S 64° W 4.9 ft. 8" pine with healed blazes bears N 75° W 45.4 ft.

Southeast corner of Section 17: Found, the 1956 BLM brass cap on a 2" diameter pipe, exposed 12" above a mound of stone, from which stands the following original bearing tree;
18" oak with healed blazes bears N 64°33' E 12.0 ft.
Trees marked by the BLM in 1956 were found as follows;
16" pine with healed blazes bears N 43°17' E 52.9 ft.
6" oak with healed blazes bears S 70°46' E 52.1 ft.
13" fir with healed blazes bears S 69°54' W 47.9 ft.
9" oak with healed blazes bears N 58°06' W 42.2 ft.

Northwest corner of Section 18: Found, the BLM brass cap set in 1956, on a 2" diameter pipe exposed 14", with notched stone alongside, and the following bearing trees;
15" fir with healed blazes bears N 63°03' E 41.7 ft.
10" fir with healed blazes bears S 19°03' E 19.0 ft.
57" fir with ax marks, no scribing visible, bears S 28°34' E 39.6 ft.
The slab remains of a fir, with scribing visible, bears S 8°42' E 31.8 ft.

Quarter-section corner common to Sections 7 and 8: Found, the BLM brass cap set in 1965, on a 1" pipe, exposed 16", and the following bearing trees; 14" fir with healed blazes bears S 21°44' E 66.5 ft. 9" fir with healed blazes bears N 67°57' E 18.9 ft.

Quarter-section corner common to Sections 17 and 16: No monument found or set at the computed single proportionate position. The 1965 BLM brass cap monument intended to be set at the proportionate position bears N 59°21' E 3.13 ft., from which bear the following bearing trees:

16" fir with healed blazes bears S 68°04' E 42.8 ft.

19" pine with healed blazes bears N 47°50' W 22.3 ft.

Quarter-section corner common to Sections 17 and 18:

Found, a 4" diameter brass disc set in concrete, marked
"...Corps of Engineers...1973...", and the following
bearing tree;
19" diameter fir with healed blaze, marked by the BLM

Quarter-section corner common to Sections 17 and 20: Found, the 1956 brass cap on a 1" diameter pipe, exposed 6", from which bear the following trees marked by the BLM in 1974;

in 1965, bears N 81 33'W 32.3 ft.

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12" fir snag with scribing visible bears S 12° E 26.5 ft.

15" fir stump with scribing visible bears N 34° W 17.5 ft.

Center quarter-section corner: No monument found or set at the computed corner position. The 1965 BLM brass cap monument intended to be set at the corner position bears N 27°38' W 5.68 ft., from which bear the following found bearing trees; 32" pine with healed blazes bears S 48°52' E 39.19 ft.

North sixteenth-section corner between Sections 17 and 18:

No monument found or set at the computed position. The
1965 BLM brass cap monument intended to be set at the

28" pine with healed blazes bears S 36° W 36.84 ft.

1965 BLM brass cap monument intended to be set at the corner position bears N 67°22' E 1.87 ft., from which bear the following found bearing trees; 7" white oak with healed blaze bears S 86°40'E 14.2 ft. 12" fir with healed blazes bears N 85°29'W 20.8 ft.

North sixteenth-section corner between Sections 17 and 16:
No monument found or set at the computed position. The
1965 BLM brass cap monument intended to be set at the
corner position bears S 60°06' E 4.36 ft., from which
bear the following bearing trees;
12" fir with healed blazes bears N 38° E 43.4 ft.
20" pine with healed blazes bears S 71°35' W 43.4 ft.

South sixteenth-section corner between Sections 17 and 16:
No monument found or set at the computed position. The
1965 BLM brass cap monument intended to be set at the
corner position bears S 32°45' E 1.62 ft., from which
bear the following bearing trees;
9" fir with healed blazes bears S 87°43' E 30.8 ft.
16" fir with healed blazes bears N 69°33' W 26.7 ft.

SET

Quarter-section corner common to Sections 8 and 17: Set a 30" long Berntsen aluminum monument with the aluminum cap stamped as shown here. The 1965 BLM brass cap monument intended to T33S R1E be set at the corner position bears S 8 S 52 17' E 8.14 ft., from which 1/4 cor + bears the following bearing tree: S 17 10" fir with healed blazes bears 1988 S 85 30' W 40.8 ft. LS 1656 It should be noted here that there is evidence that the found monument may be in a location different from where it was placed in 1965. From the new monument the tree bears S76 34'W 35.2 ft.

South sixteenth-section corner between Sections 17 and 18:
Set a 30" Berntsen aluminum monument, flush, with the aluminum cap stamped as shown here,
from which bear the following;
1987
The 1965 BLM brass cap monument
S 1/16 +
intended to be set at the proporS 18 S 17
tionate position bears N 40°30'E
LS 1656
2.97 ft. From the found monument were
found the following bearing trees;
16" madrone with healed blaze bears S 74° E 55.0 ft.
14" fir snag with scribing visible bears S 28° E 8.9

Center-west sixteenth-section corner: Set a 30" Berntsen aluminum monument, exposed 3", with the aluminum cap stamped as shown here, from which bear the following:

The 1965 BLM brass cap monument

OW 1/16 + S 17 intended to be set at the corner

LS 1656 position bears N 1°31' E 7.07 ft. From the found monument were found the following bearing trees:

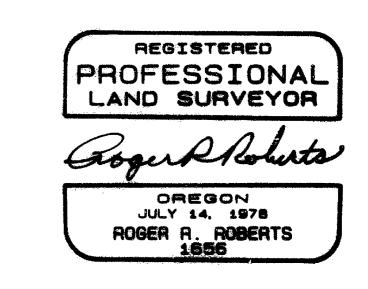
11" fir with healed blazes bears N 59°07' E 7.7 ft.

12" fir with healed blazes bears S 26°07' W 20.8 ft.

Center-north sixteenth-section corner: Set a 30" Berntsen aluminum monument, exposed 2", with the aluminum cap stamped as shown here, from which bear the following:

1988
The BLM brass cap monument intended CN 1/16 + S 17

to be set at the corner position bears LS 1656 N 57°49' E 1.88 ft. From the found monument were found the following bearing trees; 16" fir with healed blazes bears S 9°24' E 21.6 ft. 16" fir with healed blazes bears N 23°10' W 68.1 ft.



## U.S. ARMY ENGINEER DISTRICT, PORTLAND

ROGUE RIVER BASIN ELK CREEK LAKE

PROJECT BOUNDARY MONUMENTATION

SECTION 17, TOWNSHIP 33 SOUTH, RANGE 1 EAST, W.M.

JACKSON COUNTY, OREGON

