

SURVEY SUBDIVIDING SECTION 23, T. 20 S., R. 12 W., WM.,
DOUGLAS COUNTY, OREGON

Survey for:
CROWN ZELLERBACH, CORP.

Survey by:
WARREN D. HOOTMAN
Consulting Forester-Oregon Surveyor #399

Survey initiated April 15, 1960-Completed July 28, 1960

Prior survey records:
A. Original Government notes, 1857
B. Government re-survey notes, 1902, by Gen.
William Byars, surveyor.
C. Re-survey work furnished by Crown
Zellerbach, Corp. Survey by W.G.
Corbett, 1941-43

Equipment used this survey:
K & E transit, 200 ft. tape and abney level

Basis for bearings:
Solar observations
Magnetic variation $20^{\circ} 37'$ to $20^{\circ} 48' E$

Error of closure:
1:4700

True lines marking property boundaries are blazed and tagged
with Crown Zellerbach Property Line Aluminium tags.

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COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

C.S. File 51 / 165A

Map File M 11 T 77

SUBDIVISION OF SECTION 23, T. 20 S., R. 12 W., WM., DOUGLAS COUNTY, OREGON

THIS SURVEY WAS MADE FOR CROWN ZELLERBACH, CORP. 1960

I start my survey at the North Meander Post common to Sections 22 and 23 on the South shore of Tahkenich Lake, this point is an iron pipe in a swamp. I re-witness this corner as follows:

An Alder 9" DBH, bears S 50° 30' E., 29.3 ft.
" " 11" " " S 16° 30' W., 62.3 ft.

I run South on a variation of 20° 20' E between Sections 22 and 23 as follows:

200.00 ft. leave swamp and ascend East slope
470.00 no trace of the $\frac{1}{4}$ Corner; continue ascent
1210.00 top of divide descend toward Five Mile Arm
1580.00 creek, S-E
2780.00 enter swamp
2900.00 leave swamp
3032.37 North shore of Five Mile Arm

I find no trace of the South Meander Corner common to Sections 22 and 23; therefore, I make a search and find the Meander Post common to Sections 23 and 26 and the Meander Post common to Sections 22 and 27. I cannot identify the certain position of the North Meander Post common to Sections 26 and 27; therefore, I run a random line Southerly from the upturned stump of what I believe to be the bearing tree for this corner. I run Southerly over the hill and find evidence of line which tends to verify this as the bearing tree. Therefore, I return and set a pipe for the North Meander Post, as close as I can determine its original position from the stump of the original bearing tree, and mark new bearing trees as follows:

Spruce 6" DBH, bears S 66° 00' E., 23.2 ft.
" 13" DBH, " South 55.2 ft.

I set up a triangulation system between the three found Meander Corners and find that they do not check with the original notes, therefore, I do not double proportion the Section Corner common to Sections 22, 23, 26 and 27, but establish it as being 114.2 ft. East of the Meander Corner of 22 and 27 for the following reason:

The only distance which has a chained tie is the Meander Corner of 22 and 27 and the South Meander Corner of 22 and 23, all other measurements were based on triangulations. I, then, set a new Meander Corner for 22 and 23, 114.2 ft. East and 172.5 ft. North of the Meander Corner common to Sections 22 and 27, by driving a pipe and witnessing as follows:

Spruce 30" DBH, bears S 25° 00' W., 169.2 ft.
Willow 5" DBH, " N 88° 15' W., 29.2 ft.

I re-witness the Meander Corner of Sections 22 and 27 as follows:

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Spruce 30" DBH, bears N 58° 15' E, 45.4 ft.
Fir 9" " " S 75° 30' W, 31.9 ft. ✓✓

Therefore, the distances are as follows:

Section Corner 22-23-26-27 to Meander Corner 23/26
S 88° 49' E., 556.9 ft.

Section Corner 22-23-26-27 to Meander Corner 26/27
S 0° 51' W., 677.7 ft.

Section Corner 22-23-26-27 to Meander Corner 23/22
N 0° 43' W., 172.5 ft.

True line is 3054.9 ft., bearing N 0° 43' W.

I set the 1/4 Corner common to Sections 22 and 23 at the proportioned distance 471.5 ft South 0° 43' E of the North Meander Corner of Sections 22 and 23 by driving an iron pipe and marking the following bearing trees:

Douglas fir 6" DBH, bears N 60° 45' E., 13.6 ft.
" " 5" " " N 19° 00' W., 17.9 ft.

This corner lays on an East slope approximately 145 ft. West of the Creek. ✓✓

I, then, calculate the position of the West Meander Corner Sections 14 and 23, and by a series of triangulations locate the approximate position of this corner on the lake shore. I find the 2 original bearing trees with visible scribing and the corner point marked by a pipe. Both bearing trees are short snags. I mark new bearing trees as follows:

Hemlock 6" DBH, bears N 74° 30' E., 45.3. ft.
" 6" " " S 82° 15' E., 64.6 ft. ✓✓

I, then, run East with a compass and find the 1/4 Corner common to Sections 23 and 14. I find the pipes set by Corbett and the 2 Spruce stumps blazed by him and the remains of the original Douglas fir bearing tree. I re-witness this corner by marking:

Douglas fir 7" DBH, bears S 12° 00' W., 17.7 ft.
Spruce 4" " " N 33° 00' E., 6.5 ft. ✓✓

Easterly on a random line between 14 and 23.

2598.2 ft. Section Corner 14, 13, 23 and 24.

Thence, N 88° 23' E on a true line between 14 and 23 as follows:

400.00 ft. descend down bottom of draw
790.00 ascend, leave creek
980.00 descend
1299.00 enter swamp
E 1/16th Corner Sections 14 and 23. I drive a pipe and mark the following bearing trees:

Alder 5" DBH, bears N 12° 15' W., 23.3 ft.
" 7" " " S 24° 00' E., 19.5 ft.

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1305.00 ft. leave swamp
 1515.00 top of spur
 1760.00 top of spur
 2598.20 $\frac{1}{4}$ Corner common to Sections 14 and 23

From the $\frac{1}{4}$ Corner common to 14 and 23 I run a random line S 1° 00' E through the center of Section 23

from the corner I ascend
 340.00 ft. descend
 775.00 draw, W
 1296.00 Creek 1' wide, W. Ascend
 1354.00 descend
 1425.00 Creek 4' wide, N-W
 1550.00 Creek; N-E, begin steep ascent along East side of draw
 2100.00 top of divide
 2175.00 cat road, E-W
 2750.00 Creek 2' wide, S-W
 2920.00 Creek, W; ascend
 2945.40 set temporary hub

I, then, go to the $\frac{1}{4}$ Corner common to Sections 23 and 26, which I identify from the original bearing trees. Corner point is marked by a pipe. I mark one new bearing tree as follows:

Spruce 28" DBH, bears N 53° 30' E, 29.3 ft.
 The original bearing tree bears S 22° 00' W., 16.5 ft. measured to the face; the tree is dead at this time.

The corner lays on an East slope approximately 60 ft. East of the top of the ridge. Timber in the SE quadrant has been cut in recent times.

from the corner I ascend N 1° 00' W
 60.00 ft. top of ridge; descend along West slope
 370.00 spur, slope SW; descend N slope
 790.00 creek flows N 70° 00' W
 810.00 creek flows SW; ascend
 1100.00 summit of spur; slope SW
 1360.00 draw W
 1482.00 top of low spur
 1550.00 draw SW; ascend
 1950.00 top of ridge; descend
 2263.50 I am due East of Station 2945.4 South

True bearing and distance of this line is:

N 1° 47' W., 5206.4 ft.

I return to the $\frac{1}{4}$ Corner common to Sections 23 and 26 and run S 88° 03' E., 2455.2 ft. to the closing corner between Sections 23 and 24. I, then, return along this line 1227.6 ft. to the half way point and set the E 1/16th Corner common to Sections 23 and 26. I drive a pipe and mark

A school marm Douglas fir 90" Diam bears N 46° 15' W., 53.0 ft.
 Fir stump 48" Diam bears S 31° 30' W., 33.6 ft.
 This stump will not hold a scribe; therefore, I tag it with a metal tag.

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Then, from the closing corner to Sections 23 and 24, I run a random line Northerly between Sections 23 and 24

3980.6 ft North I determine the witness corner position from the original Spruce bearing tree. Then, continuing North at Station 5369.9 I find the pipe marking the Section Corner common to Sections 13-14-23-24 as described in Corbett's notes. Then, recognizing the Witness Corner as a point on the Section line I proportion the Corners on this line by the overall distance of 5369.9 ft. against the record distance of 5346.0 ft.

Then, S 0° 18' E., 1325.9 ft. I set the N 1/16th Corner common to Sections 23 and 24, by driving an iron pipe from which:

Spruce 24" DBH, bears S 52° 00' E., 57.0 ft.
Alder 26" " " S 30° 00' W., 28.6 ft.

Then, continuing S 0° 18' E., 63.4 ft to the Witness Corner Sections 23 and 24. Then, S 0° 10' E 1262.5 ft to the 1/4 Corner common to Sections 23 and 24 where I set a pipe witnessed as follows:

Hemlock 22" DBH, bears S 43° 00' W., 4.0 ft.
Alder 16" " " S 3° 30' E., 10.1 ft.

Then, S 0° 10' E, 1325.9 ft. I set the South 1/16th Corner common to Sections 23 and 24 with a pipe witnessed by the following bearing trees:

Douglas fir stump 60" diam. bears S 13° W., 73.8 ft.
Spruce 52" DBH, bears S 79° 15' E., 139.4 ft.

Continuing S 0° 10' E, 1392.2 ft. to the closing corner of 23 and 24. We, also, find the Section Corner common to Sections 25-26-24 which we use to verify the closing corner.

Then, from the 1/4 Corner common to Sections 22 and 23, which I set previously I run S 89° 40' E., on a true line through the center of Section 23 as follows:

	from the corner I descend steep
145.00 ft.	creek, N; ascend
310.00	descend
550.00	creek; ascend
940.00	summit
1100.00	draw south
1550.00	draw South
1830.00	top of flat spur
2130.00	draw South
2546.40	I intersect the true N-S Centerline 2651.4 ft.
	N 1° 47' W of the S 1/4 Corner of Section 23 and
	S 1° 47' E of the N 1/4 Corner of Section 23

I set a pipe at the CS 1/4 Corner and witness it as follows:

Fir 56" DBH, bears N 70° 30' W., 34.0 ft.
" 52" " " S 84° 30' E., 29.0 ft.

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Then, continuing S 89° 40' E on a true line through the center of Section 23

	from the corner
50.00 ft.	draw, S
250.00	creek, SW
850.00	top of ridge
940.00	draw, N
1320.00	top of ridge
1680.00	draw, S
1865.00	top of ridge
2125.00	top of spur, N
2345.00	spur, N
2523.20	¼ Corner common to Sections 23 and 24

I, now, set the center line N 1/16th Corner at the mid point of the North ½ of the N-S Centerline, 1277.50 ft. from the N ¼ Corner of Section 23. I drive a pipe and mark the following bearing trees:

Spruce 9" DBH, bears S 6° 00' W., 10.2 ft. ✓
 " 10" " " N 9° 30' E., 5.8 ft.

Then, on a true line N 89° 20' E., through the center of the NE ¼ of Section 23 as follows:

	ascend West slope
1030.00 ft.	top of ridge; descend a broken North slope
1950.00	draw N; ascend
2100.00	top of spur; descend
2335.00	draw N; ascend
2558.30	N 1/16th Corner common to Sections 23 and 24

I, now, go to the S 1/16th Corner common to 23 and 24 and run N 89° 35' W on a true line through the center of the SE ¼ of Section 23

100.00 ft.	draw, S
410.00	top of spur, SW; descend West slope
1010.00	ascend
1800.00	top of ridge, N-S; descend
2250.00	creek, NW
2486.40	CS 1/16th Corner Section 23, which I mark with an iron pipe and witness with the following bearing trees: ✓

Fir 66" DBH, bears N 88° 30' E, 9.8 ft.
 " 66" " " N 88° 15' W, 29.7 ft.

Starting at the E 1/16th Corner common to 23 and 26 I run N 0° 49' W through the center of the SE ¼ of Section 23

98.00 ft.	top of spur; descend North
300.00	draw, E
500.00	top of spur
740.00	draw, E
920.00	top of spur
1020.00	draw, E

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Map File M11777

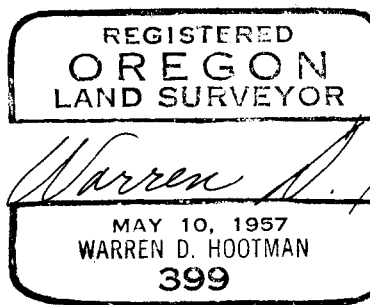
1357.00 ft. SE 1/16th Corner, which is an iron pipe, witnessed as follows:

Douglas fir 54" DBH, bears S 21° 00' W., 6.2 ft. ✓
Spruce 11" " " N 79° 30' E., 38.9 ft.

Continuing N 0° 49' W from this corner

1324.00 ft. to the Center line E 1/16th Corner of Section 23.

END OF SURVEY



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