

COUNTY SURVEYORS FILE DATA
NOT REMOVE FROM OFFICE

58/294
M 96-63 B

NOTE: All new BTs are faced with a double blaze and marked per the BLM manual, and in addition have a brass washer marked L.S. 1305 nailed flush in lower blaze. New BTs are tagged with USFS signs 544 and 543, and painted with 6" red band. All corner monuments set are stamped per the BLM manual, plus township, range, 1984 and PLS 1305. Reference monuments at property corners were set within one minute of true bearing. 6 ft. fiberglass posts with decals LSM 130 or 1/2" x 5" rebar with signs 544 were set 3 to 5 ft. from all corners set as per contract. Field notes are in books 1, 2, 3, 5, 6, 7, 8 and 18. Contract No. 53-0470-3-0935N.

CORNER NO. MONUMENT ACCESSORIES

CORNER NO.	MONUMENT	ACCESSORIES
①	T21S R11W 20121 29128 1960 B-L-M	Fd. 3" brass cap on 2 1/2" G.I. pipe set by BLM.
②	PLS 1997 W 1/6 S 21 S 28 1983 T21S R11W	Fd. 2 1/2" brass cap on 2" iron pipe set by Hintz. Fd. 5/8" I.R. N 68° W 1.39 ft. set by Haines.
③	1/4 S 21 S 28 T21S R11W 1960 B-L-M	Fd. 3" brass cap on 2 1/2" G.I. pipe set by BLM.
④	GENERAL LAND OFFICE T21S R11W S 21 S 22 S 28 S 27 1960	Fd. 3" brass cap on 1" iron pipe set by BLM.
⑤	N 1/6 S 28 S 27 1960 B-L-M	Fd. 3 1/2" brass cap on 1" G.I.P. set by BLM.
⑥	T21S R11W WC 1/4 S 28 S 27 1984 PLS 1305	Fd. 3/4" G.I.P. set by BLM. Replaced pipe with 2" alum. cap on 1/2" x 18" rod in root structure of BT.
⑦	1/4 S 28 S 27 T21S R11W 1960 B-L-M	Fd. 3 1/2" brass cap on 2 1/2" G.I. pipe set by BLM.
⑧	T21S R11W S 28 S 27 1984 PLS 1305	Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound.
⑨	T21S R11W S 28 S 33 S 34 CC 1984 PLS 1305	Fd. 1" iron pipe set by Hootman, LS 399 brs. S 3° 05' 28" E 18.82 ft. from true position. Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound.
⑩	T21S R11W 1/4 S 28 1984 PLS 1305	Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound.
⑪	T21S R11W 1/4 S 33 1984 PLS 1305	Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound.
⑫	T21S R11W S 29 S 28 S 33 1984 PLS 1305	Fd. 5/8" iron rod set by Stuntzner LS 1342. Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound. Buried iron rod.
⑬	T21S R11W S 29 S 32 S 33 CC 1984 PLS 1305	Fd. BLM BTs: 16" D. Fir brs. N 28° W 98.8 ft. (rec. N 28 1/2° W 75 1/2 ft.) healed face; 15" Cedar bears S 7° W 13.5 ft. (rec. S 9° W 66 1/2 ft.) vis. scribe; 17" Cedar bears S 60° E 27.6 ft. (rec. S 56 1/2° E 41 1/2 ft.) healed face. Fd. orig. BT: 70" Maple bears S 87 1/2° W 337.3 ft.
⑭	T21S R11W S 1/6 S 29 S 28 1984 PLS 1305	Fd. Hintz's BTs: 12" D. Fir brs. N 20° W 16.8 ft.; 28" D. Fir brs. N 19° E 12.0 ft.
⑮	WC 1/4 LS 497 S 29 S 28 1978	Fd. BLM BT: 40" D. Fir bears N 37° E 67.1 ft. (rec. N 33 3/4° E 100 1/2 ft.) healed face.
⑯	T21S R11W WC N 1/6 S 29 S 28 1984 PLS 1305	Fd. BLM BTs: 15" D. Fir brs. N 37 1/2° E 17.8 ft., healed; 17" Maple brs. S 79 3/4° E 40.9 ft., healed; 12" x 10" Cedar snag brs. S 30° W 43.6 ft., healed; 14" D. Fir brs. N 59° W 40.3 ft., healed.
⑰	T21S R11W WC N 1/6 S 29 S 28 1984 PLS 1305	Fd. BLM BTs: 14" D. Fir brs. N 33° W 4.0 ft. (rec. N 45° W) healed face; 12" D. Fir stump brs. N 55° E 14.4 ft. (rec. N 54 1/2° E 20 1/2 ft.) healed face. Set R.M. - 2" alum. cap on 5/8" x 24" iron rod brs N 48° 19' 07" E 50.68 ft. marked RM N 1/6 S 27 1984 PLS 1305
⑱	T21S R11W WC N 1/6 S 29 S 28 1984 PLS 1305	Fd. orig. BTs: 69" burned Fir snag brs. N 58 1/2° E 5.4 ft. (rec. East 2 1/2 ft.); 24" Fir snag brs. S 82° W 9.5 ft. (rec. West 12 1/2 ft.) Fd. unrecorded BTs: 18" D. Fir brs. S 18° W 24.6 ft. healed face; 33" D. Fir brs. S 30° E 1.9 ft., healed face.
⑲	T21S R11W C 1/4 S 28 1984 PLS 1305	Fd. BLM BTs: 50" Cedar brs. N 45° E 114.4 ft. (rec. N 37 1/2° E 172 1/2 ft.), healed face; 25" Cedar brs. N 44° W 42.1 ft. (rec. 66 1/2 ft.) healed face.
⑳	T21S R11W C 1/4 S 28 1984 PLS 1305	New BTs: 7" D. Fir brs. N 67° W 6.9 ft. scribed T21S R11W S 28 BT; 7" D. Fir brs. N 21° E 26.9 ft. scribed T21S R11W S 27 BT.
㉑	T21S R11W C 1/4 S 28 1984 PLS 1305	Fd. Hootman BTs: 36" D. Fir snag brs. S 39° E 58.0 ft. healed face; 24" D. Fir brs. S 65° W 26.0 ft. healed face; 12" D. Fir brs. N 19° E 41 ft. New BTs: 24" D. Fir brs. S 38° W 37.5 ft. scribed T21S R11W CC S 33 BT; 34" D. Fir brs. S 58° E 65.0 ft. scribed T21S R11W CC S 34 BT. (Hootman BTs bear from pipe.)
㉒	T21S R11W C 1/4 S 28 1984 PLS 1305	New BTs: 34" D. Fir brs. N 2° W 12.1 ft. scribed 1/4 S 28 BT; 21" D. Fir brs. N 60° E 18.6 ft. scribed 1/4 S 28 BT.
㉓	T21S R11W C 1/4 S 28 1984 PLS 1305	New BTs: 18" Alder brs. S 63° E 16.2 ft. bark scribed 1/4 S 33 BT; 28" D. Fir brs. S 31° W 47.9 ft. scribed 1/4 S 33 BT.
㉔	T21S R11W C 1/4 S 28 1984 PLS 1305	Fd. Stuntzner BT: 42" Hemlock brs. N 14° W 55.2 ft. (rec. N 16° W) vis. scribe. Fd. orig. BT: 36" Cedar brs. N 10° E 23.1 ft. New BT: 15 Hemlock brs. N 70° W 63.5 ft. scribed T21S R11W S 29 BT. Set R.M. - 2" alum. cap on 1/2" x 24" iron rod brs. N 17° 12' 51" E 50.17 ft. marked RM SW S 28 1984 PLS 1305
㉕	T21S R11W C 1/4 S 28 1984 PLS 1305	Fd. 3" alum. cap on 2 1/2" x 30" alum. pipe for closing corner set to line by Jackson & Prochnau. Fd. 1" brass disc. on T-iron, set by Haines LS 239, for orig. closing corner, brs. S 2° 40' 43" E 39.89 ft.
㉖	T21S R11W C 1/4 S 28 1984 PLS 1305	Set 3" alum. cap on 2 1/2" x 30" alum. pipe.
㉗	WC 1/4 LS 497 S 29 S 28 1978	Fd. remains of orig. cor. tree, 44" rotten Fir snag. Fd. 2 1/2" brass cap on 1 1/4" iron pipe for W.C. set by Hintz 4.3 ft. East of corner. Fd. 3/4" G.I.P. 0.3 ft. West of cap set by Haines LS 239.
㉘	T21S R11W WC N 1/6 S 29 S 28 1984 PLS 1305	Fd. 3/4" I.R. set by Hintz LS 497 for W.C. 2.84 ft. East and 0.91 ft. South of true cor. Set new W.C. - 3" alum. cap - 2 1/2" x 30" alum. pipe brs. N 88° 01' 14" E 15.12 ft. from true cor.
㉙	T21S R11W WC N 1/6 S 29 S 28 1984 PLS 1305	Set 3" alum. cap on 2 1/2" x 30" alum. pipe. Rock mound.
㉚	T21S R11W C 1/4 S 28 1984 PLS 1305	Set 2" alum. cap on a 1/2" x 24" I.R. Rock mound.
㉛	T21S R11W C 1/4 S 28 1984 PLS 1305	Set 2" alum. cap on 1/2" x 18" iron rod. Rock mound.
㉜	T21S R11W C 1/4 S 28 1984 PLS 1305	Set RM to true corner - 2" alum. cap on 1/2" x 18" I.R. brs. N 78° 29' 07" E 54.3 ft. marked RM C 1/4 S 28 1984 PLS 1305 54.3. Set RM to W.C. 3" alum. cap on 2 1/2" x 30" alum. pipe brs. N 75° 29' 44" E 168.27 ft. marked RM 168.27 WC C 1/4 S 28 1984 PLS 1305. Scribed BT to true corner: 10" D. Fir brs. S 47° E 20.0 ft. scribed C 1/4 S 28 BT. Scribed BTs to W.C.: 13" D. Fir brs. N 58° W 14.2 ft. scribed X BT; 10" D. Fir brs. S 45° W 4.8 ft. scribed X BT.
㉝	T21S R11W C 1/4 S 28 1984 PLS 1305	New BTs: 24" D. Fir brs. N 6° E 53.8 ft. scribed CS 1/16 S 28 BT; 18" D. Fir brs. S 74° E 18.3 ft. scribed CS 1/16 S 28 BT. Set RM - 3" alum. cap on 2 1/2" x 30" alum. pipe brs. N 80° 16' 57" W 46.14 ft. marked RM CS 1/16 S 28 1984 PLS 1305 46.14.

REGISTERED PROFESSIONAL LAND SURVEYOR

JAMES W. PROCHNAU
SEPTEMBER 21, 1977
JAMES W. PROCHNAU
1305

58/294
M 96-63 B



*M 96-61 A&B, M 96-62, M 96-63 A&B,
M 96-64 A&B, M 96-65 A&B*

IN REPLY REFER TO

United States Department of the Interior 9641 (942)

BUREAU OF LAND MANAGEMENT

OREGON STATE OFFICE
P.O. Box 2965 (825 N.E. Multnomah Street)
Portland, Oregon 97208

January 26 **FILED**

RECEIVED *RS*

MAY 16 1984

COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

Mr. James W. Prochnau
Jackson and Prochnau, Inc.
P. O. Box 177
Albany, Oregon 97321

Dear Mr. Prochnau:

This is in response to your request for our opinion concerning survey procedure in T. 21 S., R. 11 W., Willamette Meridian, Oregon, as discussed in your meeting with Dan Berry on January 24, 1984.

As you point out in your letter accompanying the material presented in the meeting, this situation was previously addressed in a letter from this office to the Douglas County Surveyor, dated January 25, 1974. The procedures for reestablishing lost corners outlined in that letter were those which would normally be used when considering the methods originally used to establish the section corners involved.

Based on the ground conditions you have developed, your submitted material contains several proposed methods, including the 1974 BLM recommendation, all of which indicate some distortion in bearings and/or distances from the original record. The 1974 BLM recommendation (your method No. 1) creates what we consider to be minor distortion in bearing but produces distances that in most cases are closer to matching the record than the alternatives; i.e., some bearing distortion gives way to generally good distance relationships.

After examining all possible methods that you have proposed, it appears that no one method can be adopted that will not create some distortion. Considering this, we feel the factor that should determine the method used is that which would normally be called for in such instances, according to the BLM Manual and common practice. Therefore, it is our opinion that the procedures outlined to Mr. Ingram in 1974, and reiterated in your letter, are still valid and would probably be used by this office if we were conducting the survey.

Def 4

C.S. File No. 58/294-1A

With regard to the monument at the $\frac{1}{4}$ section corner of sections 21 and 28 which the BLM reestablished in 1960, and you found to be approximately 25 feet from its proper position, we feel it should remain as is. This decision is based on (1) its length of existence, (2) the fact that its position was used by a 1977 private survey, and (3) its position does not constitute what we consider to be gross error.

Sincerely,

Bill

William W. Glenn
Chief, Branch of Cadastral Survey

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MAY 16 1984
COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

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United States Department of the Interior 9641.5 (942)

BUREAU OF LAND MANAGEMENT

OREGON STATE OFFICE
P.O. Box 2965 (825 N.E. Multnomah Street)
Portland, Oregon 97208

February 9, 1984

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MAY 16 1984

COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

Mr. James W. Prochnau
Jackson & Prochnau Inc.
P. O. Box 177
Albany, Oregon 97321

Dear Mr. Prochnau:

This is in response to your letter dated January 30, 1984, concerning survey procedure in T. 21 S., R. 11 W., Willamette Meridian, Oregon.

The problem you have posed is not to calculate the position for the southeast corner of section 34, but rather to restore the meander corner of sections 34 and 35. The point for the section corner mentioned in Byars' record falls in a meandered river and hence does not exist either in theory or practice.

The Manual (Section 5-40) prescribes that meander corners on lines projected across meandered bodies of water will usually be reestablished by single proportionate measurement (occasionally, by single point control), or in extreme cases, by adjustment of the record meanders. It also allows for special cases (Section 5-46) where the surveyor's experience and judgment may properly override or modify these principles.

In our opinion, the meander corner of sections 34 and 35 should, in this case, be reestablished at record bearing, South, from the original $\frac{1}{4}$ section corner of sections 34 and 35, and at record distance, 17.89 chains, from the $\frac{1}{4}$ section corner if this distance places the meander corner on or very near the present meander line. If the record distance falls close, but not on the meander line, the present shoreline may be treated "as an identified natural feature" (Section 5-40) and the meander corner reestablished on it.

There are many potential pitfalls in using control south of the river to restore the meander corner in question. You refer to some of these in your letter. Whenever possible, survey errors or discrepancies should be isolated where they "properly belong" (Section 5-23) and should not effect proportioning of lost corners beyond their immediate area. In line with this principle, projecting Byars' survey across the river through his 23.22 chain triangulation would probably introduce more error than using his 17.89 chain tie to the $\frac{1}{4}$ section corner.

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In addition, it makes little sense to extend possible distortion from questionable corners, which are 74 to 96 chains away, across a river, and in another township, when the original $\frac{1}{4}$ section corner of sections 34 and 35 is much closer, probably more reliable, and in the same township. While certain aspects of Haines' work are debatable, it is not necessary to pass judgment on his survey one way or another, as the method we suggest for restoring the meander corner ignores his survey and conforms to the Manual.

A second best solution might be to reestablish the meander corner by single proportionate measurement between the corner of sections 3 and 10, T. 22 S., R. 11 W., and the $\frac{1}{4}$ section corner of sections 34 and 35, since these two seem generally accepted as original corners. From your data, it appears that such a restoration would place the meander corner about 8 links south and 30 links west of a point at record bearing and distance from the $\frac{1}{4}$ section corner of sections 34 and 35. The two locations are favorably related and tend to confirm one another, but all things considered, a single point control restoration is preferable.

We hope that this information is helpful to you.

Sincerely,

Bill

William W. Glenn
Chief, Branch of Cadastral Survey

cc: Dennis Moonier
Larry Hunnemuller

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MAY 16 1984
COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

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