

RECORD OF SURVEY  
for  
BENTON COUNTY

LOCATED IN THE NICHOLAS OWNBY DONATION LAND CLAIM NO. 62, BUSHROD WILSON DONATION LAND CLAIM NO. 64 IN SECTIONS 19 AND 30, TOWNSHIP 12 SOUTH, RANGE 5 WEST, AND IN THE JAMES CHISHAM DONATION LAND CLAIM NO. 54, F. M. IRWIN DONATION LAND CLAIM NO. 56, C.P. BLAIR DONATION LAND CLAIM NO. 57, GEORGE WILHELM DONATION LAND CLAIM NO. 53, AND THE ELDRIDGE HARTLESS DONATION LAND CLAIM NO. 52 IN SECTIONS 13, 24, 25, AND 26 OF TOWNSHIP 12 SOUTH, RANGE 6 WEST, WILLAMETTE MERIDIAN, BENTON COUNTY, OREGON.

MARCH 6, 1989

NARRATIVE

BACKGROUND AND PURPOSE

BENTON COUNTY IS IN THE PROCESS OF DEVELOPING A COUNTY WIDE GEOGRAPHIC INFORMATION SYSTEM (GIS). ONE OF THE ESSENTIAL PARTS OF A GIS IS A COORDINATE GRID SYSTEM TO BE USED AS THE BASE LAYER FOR THE ENTIRE GIS.

BENTON COUNTY AND THE UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT (BLM) ARE WORKING JOINTLY IN DEVELOPING STATE PLANE COORDINATES FOR ALL GOVERNMENT CORNERS IN BENTON COUNTY. BENTON COUNTY CONTRACTED DAVID EVANS AND ASSOCIATES, INC. TO ESTABLISH ELEVEN FIRST ORDER CONTROL POINTS. THESE POINTS WERE ESTABLISHED BY USING THE STATE-OF-THE-ART CONTROL SURVEYING TECHNOLOGY CALLED GLOBAL POSITIONING SYSTEM (GPS). THESE POINTS ARE IDENTIFIED AS GPS CONTROL POINTS AS SHOWN.

THE OREGON STATE PLANE COORDINATE VALUES GENERATED BY BLM ARE COMPUTED COORDINATES ESTABLISHED FROM THE BEST AVAILABLE EVIDENCE ON FILE IN THE RECORDS OF THE COUNTY SURVEYOR, SUCH AS SURVEYS, GOVERNMENT NOTES, ETC.

THE PURPOSE OF THIS SURVEY IS TO TIE THE GOVERNMENT CORNERS AND ESTABLISH ACCURATE STATE PLANE COORDINATE VALUES, ON THESE GOVERNMENT CORNERS, USING THE ESTABLISHED GPS CONTROL POINTS. THE STATE PLANE COORDINATE VALUES WILL BE INCORPORATED INTO THE BENTON COUNTY COORDINATE GRID SYSTEM.

COORDINATE SYSTEM

THE COORDINATE SYSTEM USED FOR THIS SURVEY IS THE LAMBERT CONFORMAL CONIC PROJECTION OREGON NORTH ZONE (NAD 27). ALL BEARINGS AND DISTANCES SHOWN ON THIS SURVEY ARE GRID BEARINGS AND GRID DISTANCES UNLESS OTHERWISE NOTED. THE COMBINED FACTOR SHOWN FOR EACH LINE IS THE COMBINED SEA LEVEL FACTOR AND SCALE FACTOR.

EQUIPMENT USED AND FIELD PROCEDURE

THE EQUIPMENT USED FOR THIS SURVEY WAS A MILD T-2002 AND DISS. ALL TRAVERSE POINTS ARE BRASS CAPS OR 5/8 INCH IRON RODS UNLESS OTHERWISE SHOWN. ALL TRAVERSE POINTS WERE RUN FROM TRIPOD TO TRIPOD.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY WAS DETERMINED FROM THE BRASS CAP AT GPS STATION CHAP, CONTROL POINT NO. 31, ALONG THE EAST SIDE OF FERN ROAD, COUNTY ROAD NO. 26250, AND THE BRASS CAP AT GPS STATION BELL, CONTROL POINT NO. 1, AT THE INTERSECTION OF SW 53RD STREET AND BELLFOUNTAIN ROAD, COUNTY ROAD NO. 25100 AS SHOWN.

Benton County  
Surveyor's Office

CS No. 8271  
PLM No. 1-18-1989  
FILE SIZE 24 X 36

TABLE OF INFORMATION

POINT	GRID BEARING	GRID DISTANCE	COMBINED FACTOR
1	S. 02° 27' 30" W.	796.56	0.99994868
2	S. 02° 10' 56.6" W.	806.81	0.99994868
3	S. 02° 01' 40.1" W.	785.59	0.99994887
4	S. 01° 36' 18.5" W.	1,185.68	0.99994878
5	S. 03° 06' 06.7" W.	675.03	0.99994864
6	S. 00° 30' 24.4" E.	497.08	0.99994860
7	S. 03° 32' 09.2" W.	480.69	0.99994859
8	N. 87° 16' 47.9" W.	809.41	0.99994846
9	N. 88° 00' 09.5" W.	852.87	0.99994846
10	N. 87° 52' 18.0" W.	828.92	0.99994846
11	N. 87° 59' 56.6" W.	839.13	0.99994846
12	N. 88° 03' 45.7" W.	850.96	0.99994846
13	N. 87° 59' 10.1" W.	956.92	0.99994846
14	N. 88° 29' 22.9" W.	1,047.59	0.99994846
15	N. 02° 36' 53.9" E.	1,062.89	0.99994817
16	N. 01° 58' 43.5" E.	832.81	0.99994823
17	N. 01° 32' 43.5" E.	1,015.73	0.99994818
18	N. 02° 36' 56.2" E.	902.96	0.99994821
19	N. 02° 10' 50.9" E.	874.37	0.99994822
20	N. 01° 13' 52.7" E.	663.64	0.99994823
21	N. 36° 22' 38.7" E.	710.49	0.99994830
22	N. 10° 59' 11.6" W.	283.97	0.99994838
23	N. 47° 46' 05.2" W.	920.81	0.99994830
24	N. 47° 35' 39.7" W.	1,399.12	0.99994821
25	N. 03° 13' 55.7" W.	650.98	0.99994823
26	N. 01° 57' 59.6" W.	562.57	0.99994831
27	N. 02° 24' 37.6" W.	896.48	0.99994822
28	N. 07° 13' 38.7" W.	805.29	0.99994824
29	N. 05° 53' 13.7" W.	1,245.34	0.99994812
30	N. 22° 43' 39.8" E.	507.93	0.99994833
31			

SE COR. Wm. MATZCERS DLC 60  
3 1/4" BRASS CAP  
PER CORNER RESTORATION # 3440  
NORTHING : 329593.3405  
EASTING : 1250025.3835

NW COR. ELDRIDGE HARTLESS DLC 51  
3 1/4" BRASS CAP  
PER CORNER RESTORATION # 3462  
NORTHING : 328978.2348  
EASTING : 1250943.4214

SW COR. E. HARTLESS DLC No. 51  
10"x10" X 7 STONE 2' S. OF FENCE  
PER CORNER RESTORATION # 3538  
NORTHING : 323704.8141  
EASTING : 1250772.0531

NE COR. JAMES CHISHAM DLC 64  
5/8" IR W/ YELLOW PLASTIC CAP MARKED "BENTON COUNTY SURVEYOR"  
PER CORNER RESTORATION # 1519  
NORTHING : 321065.0970  
EASTING : 1254013.4178

NW COR. NICHOLAS OWNBY DLC No. 62  
PER CORNER RESTORATION # 3508  
AT CL-CL BELLFOUNTAIN RD AND 53rd AVENUE  
GPS STATION "BELL"  
3 1/4" BRASS CAP  
LATITUDE : N 44° 30' 36.76565"  
LONGITUDE : W 123° 20' 11.33210"  
COMBINED FACTOR : 0.99994846  
ELEVATION : 244.41'  
NORTHING : 320521.4607  
EASTING : 1260185.2573

SW COR. GEO. WILHELM DLC No. 53  
3 1/4" BC ON 2 1/2" (OD) IRON PIPE  
PER CORNER RESTORATION # 3487  
NORTHING : 318425.8999  
EASTING : 1253920.3802

NW COR. BUSHROD WILSON DLC No. 64  
3 1/4" BC ON 2 1/2" (OD) IRON PIPE  
PER CORNER RESTORATION # 3535  
NORTHING : 317049.5779  
EASTING : 1257308.2665

NNE COR. BUSHROD WILSON DLC No. 64  
3" BC ON A 2 1/2" (OD) IRON PIPE  
PER CORNER RESTORATION # 3338  
NORTHING : 316949.0925  
EASTING : 1260059.3606

SE COR. F.M. IRWIN DLC No. 56  
1 1/4" IRON ROD 10' N. OF ROAD  
PER CORNER RESTORATION # 3326  
NORTHING : 315992.8841  
EASTING : 1251315.3739

NNW COR. C. P. BLAIR DLC No. 57  
3/4" IRON ROD IN DITCH S. OF ROAD  
PER CORNER RESTORATION # 3389  
NORTHING : 316120.5857  
EASTING : 1247605.1127

SW COR. JAMES CHISHAM DLC No. 54  
3" BC AT CL-CL AIRPORT & PETERSON  
PER CORNER RESTORATION # 3328  
NORTHING : 315600.1871  
EASTING : 1251301.8740

SE COR. JAMES CHISHAM DLC No. 54  
1 1/2" IRON SHAFT ON MON. BOX  
PER CORNER RESTORATION # 3492  
NORTHING : 315516.4393  
EASTING : 1253815.7373

- LEGEND
- FOUND DONATION LAND CLAIM MONUMENT SHOWN
  - FOUND MONUMENT SHOWN
  - ⊕ GPS MONUMENT SHOWN
  - ⊕ SET 5/8" IRON ROD WITH RED PLASTIC MARKED : "BENTON CO CONTROL PT"
  - APPROXIMATE EDGE OF TRAVELED WAY
  - TRAVERSE LINES RUN
  - BC = BRASS CAP
  - IR = IRON ROD
  - OD = OUTSIDE DIAMETER
  - GPS = GLOBAL POSITIONING SATELLITE SURVEY

NOTE : ALL BEARINGS AND DISTANCES ARE GRID NAD 27.  
ALL NORTHINGS, EASTINGS AND DISTANCES ARE IN U.S. FEET.

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
*Danna L. Ingram-Fehrenbacher*  
OREGON  
JULY 18, 1982  
DANNA L. INGRAM-FEHRNBACHER  
1985

SCALE 1" = 600'

BENTON COUNTY PUBLIC WORKS 380 S.W. AVERY AVENUE CORVALLIS, OREGON 97333	
<b>"BELL" TO "CHAP" CONTROL SURVEY</b>	
COUNTY SURVEYOR : DANNA INGRAM-FEHRNBACHER	DESIGNED BY : RAY WILSON
SCALE : 1" = 600'	DRAWN BY : R J ZIMMER
DATE : MARCH 15, 1989	DRAWING FILE NAME : BELLCHAP
REVISED : 4-18-89	SHEET 1 OF 1