

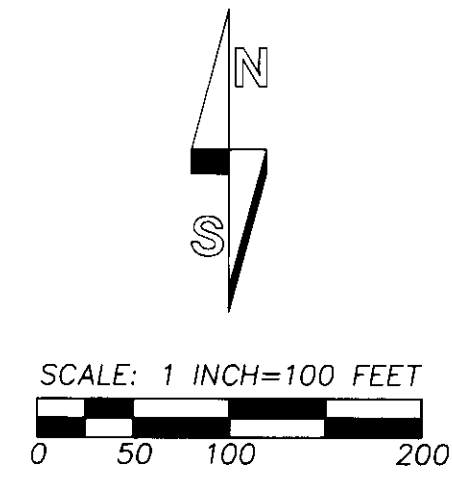
RECORD OF SURVEY

LINE TABLE

NO.	BEARING	DISTANCE
L1	S 89°52'43" W	94.38'
(L1)	S 89°51'00" W	1.43(CH)BLM
L2	N 00°17'05" W	20.13'
(L2)	N 00°16'30" W	0.305(CH)BLM
L3	N 76°30'49" W	99.67'
L4	N 76°30'49" W	77.25'
L5	N 76°30'49" W	65.65'

CURVE TABLE

NO	DELTA	RADIUS	LENGTH	CHORD	CHORD BRG
C1	30° OUTSIDE OFFSET SPIRAL	132.71'	132.71'	N 76°48'45" W	
C2	30° OUTSIDE OFFSET SPIRAL	271.29'	271.29'	N 80°21'30" W	
C3	2°16'32" SPIRAL	1462.39'	58.08'	S 85°39'05" E	
C4	12°48'19" SPIRAL	1462.39'	326.83'	N 86°48'30" E	
C5	1°32'01" SPIRAL	1462.39'	39.15'	N 79°38'20" E	
C6	16°36'51" SPIRAL	1432.39'	415.36'	N 87°10'45" E	
C7	400' C/L SPIRAL	399.65'	399.65'	S 79°10'48" E	
C8	400' C/L SPIRAL	399.65'	399.65'	S 73°32'18" W	
C9	23°32'04" SPIRAL	1409.21'	578.84'	S 88°16'51" E	
C10	9°04'47" SPIRAL	1409.21'	223.32'	N 75°24'43" E	



BASIS OF BEARINGS: BEARINGS ARE ROTATED TO TRUE NORTH ABOUT G.P.S. GEODETIC OBSERVATION TAKEN 700 FEET WEST OF THE SOUTHEAST CORNER OF SECTION 32.

RECORD CURVE DATA FOR COUNTY ROAD NO. 900 CENTERLINE CURVE:
(PER STATE HIGHWAY DEPARTMENT MAP, GRG. NO. 10C-28-5, FILE 24888, RIGHT-OF-WAY THROUGH INDIAN LANDS, DATED AUG. 1956, OBTAINED FROM UMATILLA COUNTY ROAD DEPT).
4° C.R.
T_a = 32°35'32"
T_s = 619.98'
400' SPIRALS
S = 800'
o = 1.0

RECORD CURVE DATA FOR RAILROAD CENTERLINE CURVE:
(PER OREGON-WASHINGTON RAILROAD & NAVIGATION COMPANY RIGHT-OF-WAY AND TRACK MAP, MAIN LINE, UMATILLA TO LA GRANDE, DATED JUNE 30, 1916).
404' C.L., DELTA = 32°37'

NARRATIVE:

THIS SURVEY WAS MADE AT THE REQUEST OF STEVE CALDWELL TO LOCATE THE OVERALL BOUNDARY OF THE CALDWELL AND MILLER OWNERSHIP IN LOT 4 OF SECTION 5.

THE EXTERIOR BOUNDARY OF LOT 4 WAS DETERMINED AS SHOWN. WE DID NOT TIE THE SOUTH 1/4 CORNER OF SECTION 32, WHICH WAS RE-ESTABLISHED BY BLM DEPENDENT RESURVEY IN 1988-1990.

THE LOCATION OF THE OREGON-WASHINGTON RAILROAD AND NAVIGATION COMPANY RIGHT-OF-WAY WAS DETERMINED BY TYING THE CENTERLINE OF THE TRACT EAST AND WEST OF THE CIRCULAR CURVE AND FITTING THE CIRCULAR CURVE REPORTED ON THE 1916 RIGHT-OF-WAY AND TRACK MAP.

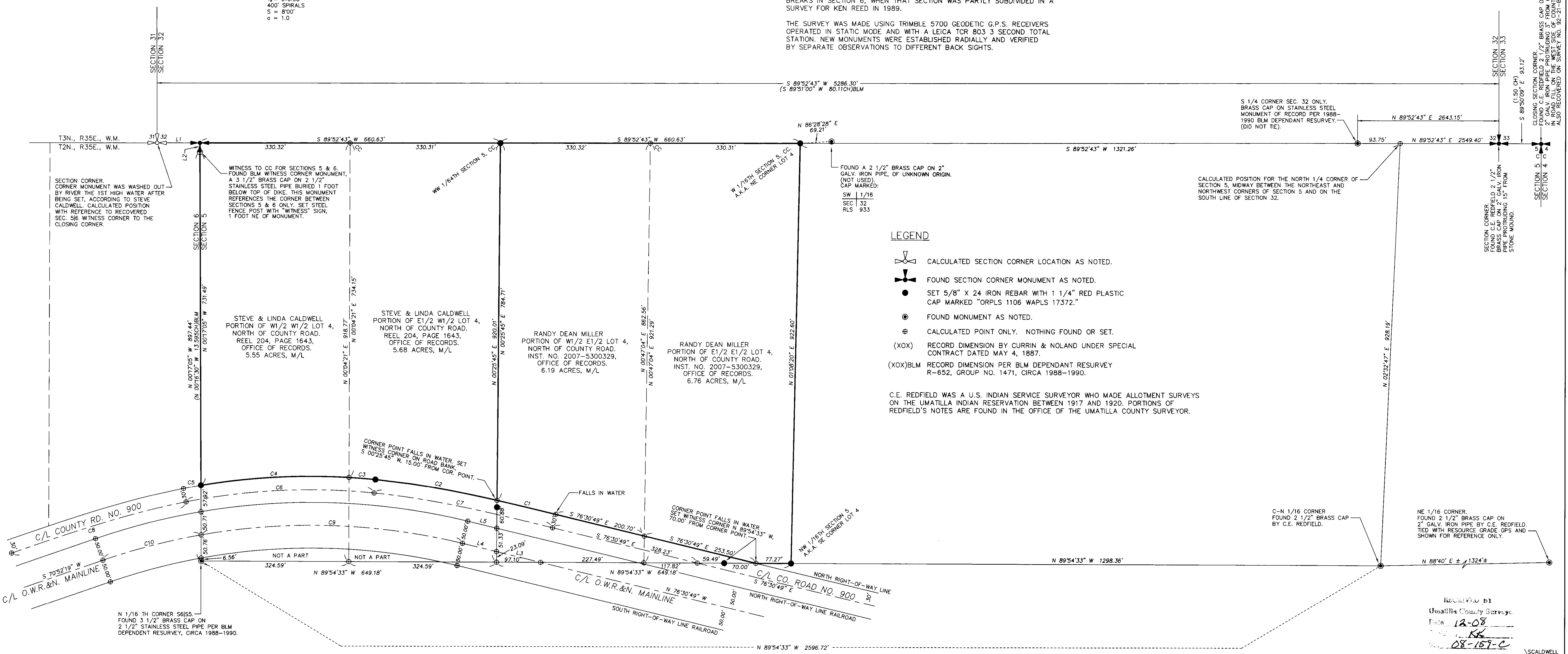
THE 1956 LOCATION MAP FOR COUNTY ROAD NO. 900 DOES NOT PARALLEL THE RIGHT-OF-WAY OF THE RAILROAD. TO DETERMINE THE NORTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 900, I LOCATED THE CENTERLINE TANGENTS OF THE COUNTY ROAD 80.00 FEET NORTH FROM THE CENTERLINE OF THE TRACK AND CALCULATED THE RECORD OFFSET SPIRAL CURVE DATA FOR THE NORTH RIGHT-OF-WAY LINE OF THE COUNTY ROAD. I DID NOT CALCULATE ANY POTENTIAL GAPS OR OVERLAPS BETWEEN THE NORTH RIGHT-OF-WAY LINE OF THE RAILROAD AND THE SOUTH RIGHT-OF-WAY LINE OF THE COUNTY ROAD.

C.E. REDFIELD'S NOTES FOR SECTION 5 INDICATE THE LINE ALONG THE SOUTH SIDE OF GOVERNMENT LOTS 1 THROUGH 4 WAS RUN BY THE THREE-MILE RULE EAST OR WEST, AND I HAVE RE-ESTABLISHED THE MISSING SOUTHEAST CORNER OF LOT 4 ACCORDINGLY. I NOTE THE BEARING BREAK AT THE SOUTHEAST CORNER OF LOT 3, BUT CAN NOT EXPLAIN IT. I FOUND SIMILAR BEARING BREAKS IN SECTION 6, WHEN THAT SECTION WAS PARTLY SUBDIVIDED IN A SURVEY FOR KEN REED IN 1989.

THE SURVEY WAS MADE USING TRIMBLE 5700 GEODETIC G.P.S. RECEIVERS OPERATED IN STATIC MODE AND WITH A LEICA TCR 803 3 SECOND TOTAL STATION. NEW MONUMENTS WERE ESTABLISHED RADIALY AND VERIFIED BY SEPARATE OBSERVATIONS TO DIFFERENT BACK SIGHTS.

REFERENCE SURVEYS:

- SURVEY NO. 92-21-B, WELLS, 1992.
- SURVEY NO. 89-33-B, WELLS, 1989.
- SURVEY NO. 03-286-B, HARRIS, 1967.
- SURVEY NO. 03-208-A, KRUMBEIN,
- SURVEY NO. 02-64-B, KRUMBEIN,
- SURVEY NO. F-4-C, TORONTO, 1968
- SURVEY NO. 82-68-AX, WELLS, 1982.
- SURVEY NO. 83-26-AX, WELLS, 1983.
- SURVEY NO. 83-110-AX, KRUMBEIN, 1983.
- C.E. REDFIELD NOTES.
- BLM DEPENDANT RESURVEYS IN SECTION 4, 5 & 6.
- T2N., R32 E., W.M., AND IN SECTION 32, T3N., R35E., W.M.



- LEGEND**
- CALCULATED SECTION CORNER LOCATION AS NOTED.
 - FOUND SECTION CORNER MONUMENT AS NOTED.
 - SET 5/8" X 24 IRON REBAR WITH 1 1/4" RED PLASTIC CAP MARKED "ORPLS 1106 WAPLS 17372."
 - FOUND MONUMENT AS NOTED.
 - CALCULATED POINT ONLY. NOTHING FOUND OR SET.
 - (XOX) RECORD DIMENSION BY CURRIN & NOLAND UNDER SPECIAL CONTRACT DATED MAY 4, 1887.
 - (XOX)BLM RECORD DIMENSION PER BLM DEPENDANT RESURVEY R-652, GROUP NO. 1471, CIRCA 1988-1990.

C.E. REDFIELD WAS A U.S. INDIAN SERVICE SURVEYOR WHO MADE ALLOTMENT SURVEYS ON THE UMATILLA INDIAN RESERVATION BETWEEN 1917 AND 1920. PORTIONS OF REDFIELD'S NOTES ARE FOUND IN THE OFFICE OF THE UMATILLA COUNTY SURVEYOR.

RECORDED BY
Umatilla County Surveyor
Date: 12-08
1106
08-167-C
SCALDWELL

REGISTERED PROFESSIONAL LAND SURVEYOR <i>Will R. Wells</i> OREGON JULY 22, 1977 WILLIAM R. WELLS 1106 RENEWS 6/30/10	WELLS SURVEYING 2602 N.E. RIVERSIDE PLACE P.O. BOX 1696 PENDLETON, OREGON PHONE: (541) 276-6362	PROJECT: BOUNDARY SURVEY FOR: STEPHEN D. & LINDA E. CALDWELL LOCATED IN THE NORTHWEST QUARTER OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 35 EAST, W.M., UMATILLA COUNTY, OREGON.
DATE: 11/08 CK. BY: WRW	DR. BY: JMW NO: 08-1205	