Bonneville Power Administration Geodetic Control Data Sheet

Station:	WM046 (246)						
Project:	Wallula-Smiths Harbor-M	l cNary					
Section:	NE 1/4 27	Township:	5 North	Range:	29 East	Meridian:	Willamette
County:	Umatilla	State:	OR		Hat Rock, Ore		. ••mannette
Surveyor:	M R Heidecke			Date Surveyed:		90	
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Instrument:

The horizontal coordinates and orthometric elevation were established by GPS observations using six Trimble 4000 SSI dual frequency receivers with Compact L1/L2 antennae with ground plane.

Adjustment:

The Basis of Coordinates for this survey is the Oregon State Coordinate System, North Zone, NAD 83 (1998). The horizontal component of the least squares adjustment was constrained by holding NGS Stations B 340 (A), B 502 (B), PENDLETON (B), STANFIELD EAST BASE RESET (B), and BURDEN (B). The vertical component of the least squares adjustment was constrained by holding NGS Benchmarks B 340 (First Order Class II), B 502 (First Order Class II), BURDEN (Second Order Class II), V 203 (Second Order Class 0), G 640 (First Order Class I). The elevation for point 106, 201, 249, and 255 were determined by differential leveling from G 640, D 502, E 525 and F 431 respectively and held.

Horizontal Datum:	NAD83 (1998)	Linear Unit:	International Feet
Vertical Datum:	NAVD88	Linear Unit:	U.S. Survey Feet

Latitude: N 45-53-34.76750	Longitude	: W 119-10-15.23	720			
US State Plane Coordinate System:		Oregon North Zo	one - 3601			
Northing: 814,466.080	Easting	8,540,510.324				
Orthometric Elevation: 492.89		Ellipsoid Height:	421.79			
Combined Factor: 0.99995443	;	Convergence: -	-			
Confidence: 95% Confidence ("1.96 Sigma") Values						
Northing-0.010	Easting-0.		Elevation-0.108			

Monumentation: BPA 31/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.

Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM046 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway 730, 7.5 miles to intersection of State Highway #207 to the right (south). Drive southwesterly on State Highway #207 0.8 miles to the intersection of East Progress Road. Drive east on East Progress Road 0.4 miles to gate and sign "Private Road". Continue east on East Progress Road 0.2 miles to end of pavement and station on south side of the road. Station is 122 feet sooutheast from road centerline at end of pavement.

Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

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