

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-20-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		1			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		BLUE RIVER - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
K	District Corps of Engineers - Bench MARK - u&p									1146.9	K				x=1,536,705 y=915,950
	752		116° 48' 50"	+20.5	5.3	91°	+13.1	+18.4	1165.3		BS	+553	-510		Ea. 1146
	752				+5.2	269°	+13.1	+18.3			BS				
K	0				5.0	-		-5.0	1160.3		K	0	0	916,503	1,536,195
TP	2237		250° 26' 58"	" "	13.6	89° 40'	+13.0	-0.6	1164.7		TP	+37	-2237	916,540	1,533,758
TP	2237				13.7	270° 20'	+13.0	-0.7			TP				
	1231		73° 40' 27"	" "	+5.0	89° 52'	-2.9	+2.1	1166.8		BS	+90	-1228		
	1231				+5.0	270° 08'	-2.9	+2.1			BS				
K	0				5.0	-		-5.0	1161.8		K	0	0	916,630	1,532,730
h	871		224° 08' 22"	+20.5	4.8	91° 56' 30"	-29.5	-34.3	1132.5		h	-373	-787	916,357	1,531,943

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6.19.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		2							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		BLUE RIVER - 15		ORE.		LANE								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
K ₁	U.S.C.+G.S.	Bm 12	RESET 1964	EL.	1124.0					1124.0									
B5	1333		225° 51' 18"	+20.5	12.5	91° -	+23.3	+35.8	1159.7		B5	-535	-1221	916,016	1,531,310		B.M. EL.		
B5	1333			+12.4	269° -	+23.3	+35.7			B5								Reset 1964	
12	2155		223° 20'	" "	11.3	91° -	-37.6	-48.9		1110.8		-950	-1934	915,601	1,530,597		B.O.L. LINE #2		
13	1825		223° 58'	" "	8.3	91° 10'	-37.2	-45.5		1114.2		-787	-1647	915,964	1,530,884				
14	1495		223° 30'	" "	11.2	91° 10'	-30.4	-41.6		1118.1		-655	-1344	915,896	1,531,187				
15	1165		222° 30'	+20.5	8.0	91° 30'	-30.5	-38.5		1121.2		-529	-1038	916,022	1,531,493				
16	837		221° 30'	" "	9.8	91° 30'	-21.9	-31.7		1128.0		-393	-739	916,158	1,531,792				
17	658		222° 55' 23"	" "	9.7	91° 30'	-17.2	-26.9		1132.8	1/2 TP	+294	+588	916,257	1,531,943		TP on Horizontal EL. 1132.5		
17	506		221° 40'	" "	8.7	91° 30'	-13.2	-21.9		1137.8		-236	-447	916,315	1,532,084				
18	177		224° 40'	" "	5.3	91° 30'	-4.6	-9.9		1149.8		-74	-161	916,477	1,532,370				
X	0				5.0	-		-5.0		1154.7	X	0	0	916,551	1,532,531				
19	154		54° 00'	+20.5	6.2	88° 20'	+4.5	-1.7		1158.0		+41	+148	916,592	1,532,679				
20	483		59° 21' 20"	" "	6.6	88° 50'	+9.8	+3.2			TP	+85	+475	916,639	1,533,006				
20	483				6.5	271° 10'	+9.8	+3.3		1163.0	TP								
	1977		252° 30' 22"	" "	+2.8	BH	+9.9	+12.7	1175.6		B5	-104	+1974						
	1977				+2.5	BH	+9.9	+12.4				B5							
21	1647		252° 00'	+20.5	10.8	-		-10.8		1164.8		+72	-1645	916,604	1,533,335				
22	1318		251° 00'	" "	10.8	-		-10.8		1164.8		+35	-1318	916,567	1,533,662				
23	989		249° 18'	" "	9.9	-		-9.9		1165.7		-3	-989	916,529	1,533,991				
24	660		247° 19'	" "	8.8	-		-8.8		1166.8		-25	-660	916,507	1,534,320				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
6-19-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		3						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
OREGON		BLUE RIVER-15'		ORE.		LANE								L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
25	330		246° 00'	+20.5	6.7	-		-6.7	1175.6	1168.9		-20	-329	916,512	1,534,651			
26	0				5.0	-		-5.0		1170.6	X	0	0	916,532	1,534,980			
27	330		64° 20'	--	7.0	-		-7.0		1168.6		+30	+329	916,562	1,535,309			
28	660		" "	--	10.9	-		-10.9		1164.7		+59	+657	916,591	1,535,637			
29	989		67° 00'	--	10.7	BH	-4.9	-15.6		1160.0		+43	+988	916,575	1,535,968			
30	1303		72° 11 52	--	12.5	90° 20'	-7.6	-20.1		1155.5	TP	-61	+1302	916,471	1,536,282			
30	1303				12.4	269° 40'	-7.6	-20.0			TP							
	1645		276° 25 16	+20.5	9.9	-		+9.9	1165.2		BS	-745	+1467					
	1645				+9.6	270°		+9.6	+9.7		BS							
31	1316		275° 30'	--	12.0	-		-12.0		1153.2		+577	-1183	916,303	1,536,566			
32	987		274° 02'	--	11.0	-		-11.0		1154.2		+410	-898	916,136	1,536,851			
33	658		271° 24'	--	8.9	-		-8.9		1156.3		+245	-611	915,971	1,537,138			
34	330		267° 20'	--	6.8	-		-6.8		1158.4		+101	-314	915,827	1,537,435			
35	0				5.0	-		-5.0		1160.2	X	0	0	915,726	1,537,749			
36	330		79° 45'	+20.5	5.3	TH	+1.7	-3.6		1161.6		-59	+325	915,667	1,538,074			
37	659		75° 45'	--	5.2	TH	+3.3	-1.9		1163.3		-72	+655	915,654	1,538,404			
38	981		71° 00 01	--	5.0	TH	+4.9	-0.1		1165.1	TP	-26	+981	915,760	1,538,730			
38	981				4.9	TH	+4.9	+0.0			TP							
	4294		227° 51 10	+20.2	14.6	90° 12'	+15.0	+29.6	1194.6		BS	+1598	+3986					
	4294				+14.3	269° 48'	+15.0	+29.3	+29.5		BS							

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
6.18.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		4						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
OREGON (CASCADES)		BLUE River - 15		ORE.		LANE								L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
39	3963		227° 34'	+20.2	11.7	90° 14'	-16.1	-27.8	1194.6	1166.8		-1500	-3668	915798	1539.048			
40	3633		" "	" "	12.2	90° 14'	-14.8	-27.0		1167.6		-1375	-3363	915923	1539.353			
41	3303		" "	" "	11.9	90° 14'	-13.5	-25.4		1169.2		-1250	-3057	916048	1539.659			
42	2973		227° 35'	" "	11.2	90° 14'	-12.1	-23.3		1171.3		-1124	-2752	916174	1539.964			
43	2643		" "	" "	10.8	90° 14'	-10.8	-21.6		1173.0		-999	-2447	916299	1540.269			
44	2313		" "	" "	9.8	90° 14'	-9.4	-19.2		1175.4		-875	-2141	916423	1540.575			BLUE RIVER-15 ⁴
45	1983		227° 40'	+20.2	11.6	90° 10'	-5.8	-17.4		1177.2		-747	-1837	916551	1540.879			M. KENZIE BRIDGE, 15 ⁴
46	1652		" "	" "	10.3	90° 10'	-4.8	-15.1		1179.5		-622	-1530	916676	1541.186			
47	1322		" "	" "	9.3	90° 10'	-3.8	-13.1		1181.5		-498	-1225	916800	1541.491			
48	992		" "	" "	8.4	90° 10'	-2.9	-11.3		1183.3		-374	-919	916924	1541.797			
49	662		228° 10'	" "	7.7	90° 10'	-1.9	-9.6		1185.0		-244	-615	917054	1542.101			
50	332		" "	" "	6.8	90° 10'	-1.0	-7.8		1186.8		-122	-309	917176	1542.407			
51	0		" "	" "	5.0	-	-5.0		1189.6		π	0	0	917298	1542.716			
#	309		52° 21' 34"	+20.2	5.8	89° 10'	+4.5	-1.3		1193.3		+93	+295	917391	1543.011			
52	330		56° 00'	" "	5.8	89° 10'	+4.8	-1.0		1193.6		+79	+320	917377	1543.036			
53	660		" "	" "	5.2	89° 10'	+9.6	+4.4		1199.0		+157	+641	917455	1543.357			
54	990		" "	" "	4.9	89° 10'	+14.4	+9.5		1204.1		+236	+961	917534	1543.677			
55	1320		" "	" "	4.7	89° 10'	+19.2	+14.5		1209.1		+315	+1282	917613	1543.998			
56	1650		" "	" "	6.6	89° 10'	+24.0	+17.4		1212.0		+394	+1602	917692	1544.318			
57	1980		" "	" "	9.4	89° 10'	+28.8	+19.4		1214.0		+472	+1723	917770	1544.639			

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
6-19-84		B. Cotramp		R. Trowbridge		6834		B.C.		2		5						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
OREGON		McKenzie Bridge-13		ORE		LANE								L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
58	2315		55° 54' 53"	+20.2	12.5	89° 10'	+33.7	+21.2	1194.6	1215.9	TP	+555	+2247	917,853	1,544,963			
58	2315				12.2	270° 50'	+33.7	+21.5			TP							
	3633		237° 50' 35"	-	12.2	90° 20'	+21.1	+33.3	1248.9		BS	+753	+3554					
	3633				11.7	269° 40'	+21.1	+32.8			BS							
59	3300		237° 48'	-	12.2	90° 20'	-19.2	-31.4		1217.5		-686	-3228	917,920	1,545,289			
60	2970		" "	-	12.5	90° 20'	-17.3	-29.8		1219.1		-618	-2905	917,988	1,545,612			
61	2640		" "	-	12.3	90° 20'	-15.4	-27.7		1221.2		-549	-2582	918,057	1,545,935			
62	2310		" "	-	12.5	90° 20'	-13.4	-25.9		1223.0		-480	-2260	918,126	1,546,257			
63	1980		237° 48'	+20.2	12.6	90° 20'	-11.5	-24.1		1224.8		-412	-1937	918,194	1,546,580			
64	1650		" "	-	12.1	90° 20'	-9.6	-21.7		1227.2		-343	-1614	918,263	1,546,903			
65	1320		" "	-	10.8	90° 20'	-7.7	-18.5		1230.4		-274	-1291	918,332	1,547,226			
66	990		" "	-	9.5	90° 20'	-5.8	-15.3		1233.6		-206	-968	918,400	1,547,549			
67	660		" "	-	8.0	90° 20'	-3.8	-11.8		1237.1		-137	-646	918,469	1,547,871			
68	330		" "	-	6.5	90° 20'	-1.9	-8.4		1240.5		-69	-323	918,537	1,548,194			
69	0				5.0	-		-5.0		1243.9	TP	0	0	918,606	1,548,517			
70	330		60° 13'	+20.2	5.7	89° 20'	+3.8	-1.9		1247.0		+55	+325	918,661	1,548,842			
71	660		" "	-	6.2	89° 20'	+7.7	+1.5		1250.4		+116	+651	918,716	1,549,168			
72	990		" "	-	6.9	89° 20'	+11.5	+4.6		1253.5		+165	+976	918,771	1,549,493			
73	1320		60° 44'	-	7.3	89° 20'	+15.4	+8.1		1257.6		+208	+1304	918,814	1,549,821			
74	1650		61° 09'	-	8.1	89° 20'	+19.2	+11.1		1260.0		+248	+1631	918,854	1,550,148			

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		6			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Mckenzie Bridge -15'		ORE		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1248.9						
75	1982		61° 23' 12"	+20.2	8.5	89° 20'	+23.1	+14.6		1263.7	TP	+290	+1961	918,896	1,550,478
75	1982				8.0	270° 40'	+23.1	+15.1	+14.8		TP				
	2977		245° 07' 50"		+12.6	90° 20'	+17.3	+29.9	1293.3		BS	+242	+2967		
	2977				+11.9	269° 40'	+17.3	+29.2	1295.3		BS				
76	2644		245° 00'	+20.2	11.2	90° 20'	-15.4	-26.6		1266.7		-221	-2635	918,917	1,550,810
77	2314		" "		9.5	90° 20'	-13.5	-23.0		1270.3		-194	-2306	918,944	1,551,139
78	1984		" "		7.8	90° 20'	-11.5	-19.3		1274.0		-166	-1977	918,972	1,551,468
79	1654		" "		6.3	90° 20'	-9.6	-15.9		1277.4		-138	-1618	919,000	1,551,797
80	1323		" "		9.0	90° 10'	-3.8	-12.8		1280.5		-111	-1318	919,027	1,552,127
81	993		" "		7.1	90° 10'	-2.9	-10.0		1283.3		-83	-990	919,055	1,552,455
82	663		" "		6.0	90° 10'	-1.9	-7.9		1285.4		-55	-661	919,083	1,552,784
83	333		" "		5.4	90° 10'	-1.0	-6.4		1286.9		-28	-332	919,110	1,553,113
84	0				5.0	-		-5.0		1288.3	TP	0	0	919,138	1,553,445
85	330		65° 06'	+20.2	7.2	89° 30'	+2.9	-4.3		1289.0		+27	+329	919,165	1,553,774
86	660		" "		9.3	89° 30'	+5.8	-3.5		1289.8		+54	+658	919,192	1,554,103
87	990		" "		11.3	89° 30'	+8.6	-2.7		1290.6		+81	+987	919,219	1,554,432
88	1320		" "		12.2	89° 30'	+11.5	-0.7		1292.6		+108	+1316	919,246	1,554,761
89	1650		" "		10.8	89° 30'	+14.4	+3.6		1296.9		+135	+1644	919,273	1,555,089
90	1980		" "		7.3	89° 30'	+17.3	+10.0		1303.3		+162	+1973	919,300	1,555,418
91	2310		" "		10.2	89° 20'	+26.9	+16.7		1310.0		+189	+2302	919,327	1,555,747

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.19.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge -15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1293.3						
92	2640		65° 06'	+20.2	7.8	89° 20'	+30.7	+22.9		1316.2		+216	+2631	919,354	1,556,076
93	2970		" "	" "	6.0	89° 20'	+34.6	+28.6		1321.9		+243	+2960	919,381	1,556,405
94	3300		" "	" "	5.7	89° 20'	+38.4	+32.1		1326.0		+270	+3289	919,408	1,556,734
95	3634		65° 02' 03"	" "	11.6	89° 14'	+48.6	+37.0		1330.6	TP	+302	+3621	919,440	1,557,066
95	3634				11.1	270° 46'	+48.6	+37.5	+37.33		TP				
	1383		243° 39' 38"	" "	+10.0	BH	+6.9	+16.9	+16.73	1347.3	BS	+148	+1375		
	1383				+9.7	BH	+6.9	+16.6	+16.73		BS				
96	1053		243° 04'	+20.2	10.0	96° 10'	-3.1	-13.1		1334.2		-123	-1046	919,415	1,557,395
97	723		242° 46'	" "	7.7	90° 10'	-2.1	-9.8		1337.5		-89	-718	919,499	1,557,723
#	394		244° 15' 40"	" "	6.2	90° 10'	-1.1	-7.3		1340.0		-38	-392	919,550	1,558,049
98	393		241° 10'	" "	6.2	90° 10'	-1.1	-7.3		1340.0		-59	-389	919,529	1,558,052
99	70		215° 55'	" "	7.2	89° 10'	+1.0	-6.2		1341.1		-39	-58	919,549	1,558,383
π	0				5.0	-		-5.0		1342.3	π	0	0	919,588	1,558,441
100	275		79° 32'	+20.2	7.0	89° 50'	+0.8	-6.2		1341.1		-47	+271	919,541	1,558,712
101	605		77° 45'	" "	8.5	89° 50'	+1.8	-6.7		1340.6		-84	+599	919,504	1,559,040
102	935		78° 00'	" "	10.3	89° 50'	+2.7	-7.6		1339.7		-133	+925	919,455	1,559,366
#	956		76° 55' 50"	" "	10.6	89° 50'	+2.8	-7.8		1339.5		-119	+949	919,469	1,559,390
103	1266		78° 03' 07"	" "	8.0	-		-8.0		1339.5	TP	-182	+1253	919,406	1,559,694
103	1266				7.7	270° -		-7.7	-7.83		TP				

Geosource Inc.

DATE 6-19-84	INSTRUMENT MAN A. Cotcamp	ROD MAN R. Trowbridge	PARTY NUMBER 6834	NOTES CHECKED BY B.C.	LINE NO. 2	PAGE 8
AREA OREGON	TOPO MAP McKenzie Bridge - IS	STATE ORE.	COUNTY LANE.	TWP	RANGE	PPM
PARTY MANAGER L.O. Davis						

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
	2168		249° 11' 22"	+20.2	14.8	✓		+14.8	1354.1	1339.5	BS	+23	+2168						
	2168				+14.4	270°		+14.4	+14.4		BS								level
104	1841		247° 55'	--	10.2	90° 10'	-5.4	-15.6		1338.5		-61	-1840	919368	1560,022				
105	1512		247° 04'	--	11.8	90° 10'	-4.4	-16.2		1337.9		-72	-1510	919357	1560,352				
106	1181		246° 50'	--	9.7	90° 20'	-6.9	-16.6		1337.5		-61	-1179	919368	1560,683				
107	851		247° 00'	--	9.8	90° 20'	-5.0	-14.8		1339.3		-42	-850	919387	1561,012				
108	521		247° 39'	+20.2	7.1	90° 20'	+3.0	-10.1		1344.0		-20	-521	919409	1561,341				
109	191		241° 00'	--	5.4	90° 20'	-1.1	-6.5		1347.6		-29	-189	919400	1561,673				
11	230		249° 20' 01"	--	4.5	90° 20'	-1.3	-5.8		1348.3		-2	-230	919427	1561,632				
π	0				5.0	-		-5.0		1349.1	π	0	0	919429	1561,862				
110	163		103° 40'	+20.2	5.5	89° 20'	+1.9	-3.6		1350.5		-91	+135	919338	1561,997				
111	488		93° 41'	--	7.7	89° 20'	+5.7	-2.0		1352.1		-198	+446	919231	1562,308				
112	818		" "	--	8.3	89° 30'	+7.1	-1.2		1352.9		-331	+748	919098	1562,610				
113	1148		" "	--	9.9	89° 30'	+10.0	+0.1		1354.2		-465	+1050	918964	1562,912				
114	1478		" "	--	11.8	89° 30'	+12.9	+1.1		1355.2		-598	+1351	918831	1563,213				
115	1808		" "	--	8.7	89° 40'	+10.5	+1.8		1355.9		-732	+1653	918697	1563,515				
116	2138		" "	--	9.3	89° 38'	+13.7	+4.4		1358.5		-866	+1955	918563	1563,817				
1f	2003		93° 09' 54"	--	9.3	89° 40'	+11.7	+2.4		1356.5	1f	-794	+1839	918635	1563,701				9-918,600 x -1,563,700 T-Intersect
117	2468		" "	--	11.7	89° 30'	+21.5	+9.8		1363.9		-999	+2257	918430	1564,119				
π	2695		93° 15' 13"	--	10.4	89° 30'	+23.5	+13.1		1367.2	π	-1073	+2472	918356	1564,334				9-918,270 x -1,564,334 Bridge

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6.19.84		B. Cottramp		R. Trowbridge		6834		R.T.		42		9							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		McKenzie Bridge - 15		ORE.		LANE								L.O. Dav's					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									1354.1										
118	2799		93° 40'	+20.2°	10.1	89° 30'	+24.4	+14.3		1368.4		-1133	+2566	918,296	1,564,422				
119	3129		" "	" "	5.0	89° 30'	+27.3	+22.3		1376.4		-1266	+2861	918,163	1,564,723				
TP	3396		92° 32' 35"	" "	12.1	89° 22'	+37.5	+25.4		1379.7	TP	-1313	+3132	918,116	1,564,994				
TP	3396				11.8	270° 38'	+37.5	+25.7	+25.6		TP								
	3353		241° 05' 34"	+20.2°	12.5	90° 36'	+29.3	+41.8	+41.5	1421.2	BS	+508	+3314						
	3353				+11.8	269° 30'	+29.3	+41.1			BS								
120	3301		240° 51'	" "	12.4	90° 30'	-28.8	-41.2		1380.0		-514	-3261	918,110	1,565,047				
121	2971		240° 26'	" "	12.1	90° 32'	-27.7	-39.8		1381.4		-484	-2931	918,140	1,565,377				
122	2641		" "	" "	11.7	90° 32'	-24.6	-36.3		1384.9		-430	-2606	918,194	1,565,702				
123	2301		" "	" "	10.3	90° 32'	-21.4	-31.7		1389.5		-376	-2280	918,248	1,566,028				
124	1981		" "	" "	9.2	90° 32'	-18.4	-27.6		1393.6		-322	-1955	918,302	1,566,353				
125	1651		240° 26'	+20.2°	9.5	90° 30'	-14.4	-23.9		1397.3		-269	-1629	918,355	1,566,679				
126	1320		" "	" "	8.7	90° 30'	-11.5	-20.2		1401.0		-215	-1302	918,409	1,567,006				
127	996		" "	" "	7.8	90° 30'	-8.6	-16.4		1404.8		-161	-977	918,463	1,567,331				
128	660		" "	" "	6.8	90° 30'	-5.8	-12.6		1408.6		-107	-651	918,517	1,567,657				
129	330		" "	" "	6.0	90° 30'	-2.9	-8.9		1412.3		-54	-326	918,570	1,567,982				
130	0				5.0	-		-5.0		1416.2	T	0	0	918,624	1,568,308				
131	330		60° 08'	+20.2°	5.0	89° 30'	+2.9	-2.1		1419.1		+55	+325	918,679	1,568,633				
132	660		" "	" "	6.1	89° 30'	+5.8	-0.3		1420.9		+111	+651	918,735	1,568,959				
133	990		" "	" "	8.5	89° 30'	+8.6	+0.1		1421.3		+166	+976	918,790	1,569,284				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-18-84		B. Cotcamp		R. Tronbridge		6834		R.T.		2		10							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									1421.2										
134	1320		59° 54'	+20.2°	11.9	89° 30'	+11.5	-0.4		1420.8		+227	+1300	918,851	1,569,608				
135	1650		59° 34'	--	10.8	89° 40'	+9.6	-1.2		1420.0		+293	+1624	918,917	1,569,932				
Bm	1650		57° 38' 18"	--	12.4	89° 40'	+9.6	-2.8		1418.4	Bm	+348	+1613	918,972	1,569,921				4-918,910 X-1,569,895 Range Line
136	1981		59° 16'	--	10.0	89° 46'	+8.1	-1.9		1419.3		+362	+1948	918,986	1,570,256				
137	2311		58° 59' 46"	--	14.2	89° 42'	+12.1	-2.1		1419.2	TP	+433	+2270	919,057	1,570,578				
137	2311				13.9	270° 18'	+12.1	-1.8	-2.03		TP								
	2121		235° 56' 02"	+20.2°	9.9	BH	+10.6	+20.5	1439.5		BS	+508	+2059						
	2121				+9.4	BH	+10.6	+20.0	+20.38		BS								
138	1789		235° 42'	--	9.6	90° 20'	-10.4	-20.0		1419.5		-436	-1735	919,129	1,570,902				
139	1459		234° 42'	--	10.2	90° 20'	-8.5	-18.7		1420.8		-380	-1409	919,185	1,571,228				
140	1130		233° 41'	--	10.3	90° 20'	-6.6	-16.9		1422.6		-314	-1086	919,251	1,571,551				
141	806		232° 32'	--	10.1	90° 20'	-4.7	-14.8		1424.7		-237	-764	919,328	1,571,873				
142	470		231° 46'	--	10.1	90° 20'	-2.7	-12.8		1426.7		-146	-447	919,419	1,572,190				
143	140		227° 00'	--	6.4	90° 20'	-0.8	-7.2		1432.3		-54	-129	919,511	1,572,508				
X	0				5.0	-		-5.0		1434.5	X	0	0	919,565	1,572,637				
144	190		41° 32'	+20.2°	5.6	89° 30'	+1.7	-3.9		1435.6		+90	+167	919,655	1,572,804				
Bm	210		15° 11' 25"	--	6.0	89° 50' 48"	+0.6	-5.4		1434.1	Bm	+171	+122	919,736	1,572,759				9-919,780 X-1,572,800 gaging STA.
145	518		38° 20'	--	6.3	89° 30'	+4.5	-1.8		1437.7		+270	+442	919,835	1,573,079				
146	850		39° 54'	--	6.0	89° 30'	+7.4	+1.4		1440.9		+424	+737	919,989	1,573,374				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6.19.84		B. Cotcamp		R. Trowbridge		6834		RST			2		11		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge-1S		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1439.5						
TP	1006		41° 09' 11"	+20.2°	6.1	89° 30'	+8.8	+2.7	}	1442.2	TP	+482	+883	920,047	1,573,520
TP	1006				6.0	270° 30'	+8.8	+2.8		TP					
	1066		235° 21' 52"	" +	8.4	-		+8.4	}	1450.4	BS	+266	+1032		
	1066				8.1	270°		+8.1		+8.2 1/3	BS				
147	892		235° 25'	+20.2°	7.8	-		-7.8		1442.6		-222	-864	920,091	1,573,688
148	562		236° 55'	" -	7.8	-		-7.8		1442.6		-125	-548	920,186	1,574,004
149	232		240° 50'	" -	7.7	-		-7.7		1442.7		-36	-229	920,277	1,574,323
X	0				5.0	-		-5.0		1445.4	X	0	0	920,313	1,574,552
150	99		73° 00'	+20.2°	5.7	89°	+11.7	-4.0		1446.4		-6	+99	920,307	1,574,651
151	429		76° 50'	" -	6.4	88° 40'	+10.0	+3.6		1454.0		-53	+426	920,260	1,574,978
152	759		78° 10'	" -	6.2	88° 40'	+17.7	+11.5		1461.9		-110	+751	920,203	1,575,303
153	1089		78° 45'	" -	6.4	88° 40'	+25.3	+18.9		1469.3		-169	+1076	920,144	1,575,628
154	1421		79° 07' 53"	" -	8.3	88° 40'	+33.1	+24.8	}	1475.2	TP	-230	+1402	920,083	1,575,954
154	1421				8.2	271° 20'	+33.1	+24.9		TP					
	1976		255° 56' 13"	+20.5°	8.9	90° 30'	+17.2	+26.1	}	1501.1	BS	-222	+1963		
	1976				8.6	269° 30'	+17.2	+25.8		+25.8'	BS				
155	1646		255° 45'	" -	7.0	90° 30'	-14.4	-21.4		1479.7		+179	-1636	920,040	1,576,281
156	1316		255° 05'	" -	6.6	90° 30'	-11.5	-18.1		1483.0		+128	-1310	919,989	1,576,607
157	986		254° 12'	" -	7.0	90° 30'	-8.6	-15.6		1485.5		+81	-983	919,942	1,576,934
158	657		252° 12'	" -	7.7	90° 30'	-5.7	-13.4		1487.7		+31	-650	919,892	1,577,261

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-84		B. Cotcamp		R. Trowbridge		6834		R.V.		2		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1501.1						
159	328		247° 38'	+20.5	6.3	90° 30'	-2.9	-9.2		1491.9		-11	-328	919,850	1,577,589
160	0				5.0	-		-5.0		1496.1	X	0	0	919,861	1,577,917
161	328		54° 36'	--	6.3	89° 30'	+2.9	-3.4		1497.7		+84	+317	919,945	1,578,234
162	657		51° 42'	--	6.4	89° 30'	+5.7	-0.7		1500.4		+201	+626	920,062	1,578,543
163	986		50° 36'	--	5.5	89° 30'	+8.6	+3.1		1504.2		+321	+932	920,182	1,578,849
164	1106		49° 14' 46"	+20.5	4.4	88° 30'	+9.7	+5.3		1506.4	16	+383	+1038	920,244	1,578,955
164	1317		49° 54'	--	8.2	89° 20'	+15.3	+7.1		1508.2		+442	+1241	920,303	1,579,158
165	1647		49° 40'	--	8.3	89° 20'	+19.2	+10.9		1512.0		+559	+1549	920,420	1,579,466
166	1977		49° 22'	--	8.4	89° 20'	+23.0	+14.6		1515.7		+681	+1856	920,542	1,579,773
167	2307		49° 12'	--	8.5	89° 20'	+26.8	+18.3		1519.4		+860	+2164	920,661	1,580,081
168	2638		48° 58' 19"	--	8.4	89° 20'	+30.7	+22.3		1523.4	TP	+925	+2470	920,786	1,580,387
168	2638			--	8.3	270° 40'	+30.7	+22.4			TP				
	1790		229° 56' 38"	+20.5	12.5	90° 30'	+15.6	+28.1	1551.4		BS	+599	+1687		
	1790			--	12.3	269° 30'	+15.6	+27.9	1551.4		BS				
169	1460		229° 47'	--	7.2	90° 38'	-16.1	-23.3		1528.1		-493	-1374	920,892	1,580,700
170	1130		" "	--	7.1	90° 40'	-13.1	-20.2		1531.2		-381	-1064	921,004	1,581,010
171	800		" "	--	7.1	90° 40'	-9.3	-16.4		1535.0		-270	-753	921,115	1,581,321
172	470		" "	--	7.0	90° 40'	-5.5	-12.5		1538.9		-159	-442	921,226	1,581,632
173	140		220° 40'	--	7.0	90° 40'	-1.6	-8.6		1542.8		-68	-123	921,317	1,581,951
X	0			--	5.2	-		-5.2		1546.2	X	0	0	921,385	1,582,074

920,270 x -1,578,871
X - intersect

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.19.84		B. Cotcamp		R. Trowbridge		6834		R1		2		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Mckenzie Bridge-15		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1551.4						
174	204		74° 26'	+20.5	8.3	89°	+36	-4.7		1546.7		-18	+203	921367	1,582,277
175	533		71° 00'	-	9.3	89°	+93	+0		1551.4		-14	+533	921371	1,582,607
176	864		71° 39'	-	9.9	89°	+15.1	+5.2		1556.6		-32	+863	921353	1,582,937
±1	1041		76° 40' 44"	-	10.0	89°	+18.2	+8.2		1559.6	±1	-21	+1041	921364	1,583,115
177	1194		71° 55'	-	10.2	89°	+20.8	+10.6		1562.0		-50	+1193	921335	1,583,267
178	1524		72° 10'	-	10.7	89°	+26.6	+15.9		1567.3		-71	+1522	921314	1,583,596
179	1854		72° 16'	-	10.9	89°	+32.4	+21.5		1508.1		-89	+1852	921296	1,583,926
180	2185		72° 06' 08"	-	8.3	89°	+38.1	+24.8		1581.5	TP	-99	+2182	921286	1,584,250
180	2185				7.8	271°	+38.1	+30.3	+30.13		TP				
	1401		239° 29' 41"	+20.5	14.4	92°	+48.9	+63.3	1644.7		BS	+243	+1379		
	1401				14.1	268°	+48.9	+63.0	1632.7		BS				
±1	1196		239° 04' 06"	-	4.7	92° 28'	-51.4	-56.1		1588.6	±1	-216	-1175	921313	1,584,460
181	1073		237° 44'	-	9.8	92° 10'	-40.5	-50.3		1594.4		-219	-1050	921310	1,584,585
182	743		-	-	8.3	92° 10'	-28.1	-36.4		1608.3		-152	-727	921377	1,584,908
183	413		237° 55'	-	5.8	92° 10'	-15.6	-21.4		1623.3		-83	-405	921446	1,585,230
184	86		224° 30'	-	5.4	92° 10'	-3.2	-8.6		1636.1		-36	-78	921493	1,585,557
π	0				5.0	-		-5.0		1639.7	π	0	0	921529	1,585,635
185	253		75° 18'	+20.5	4.8	89°	+4.4	-0.4		1644.3		-26	+252	921503	1,585,887
186	583		73° 10'	-	6.2	89°	+10.2	+4.0		1648.7		-37	+582	921492	1,586,217
187	913		-	-	8.9	89°	+15.9	+7.0		1651.7		-58	+911	921471	1,586,546

Y=921,385 X=-1,584,460
T-Inter.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6.19.84		B. Cotcamp		R. Trowbridge		6834		RTT		2	14				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
OREGON		Mckenzie Bridge-15	ORE.	LANE					L.O. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1644.7						
188	1242		72° 40'	+20.5	11.7	89°	+21.7	+10.0		1654.7		-69	+1240	921460	1,586,875
189	1571		71° 28'	--	9.7	89° 10'	+22.8	+13.1		1657.8		-54	+1570	921475	1,587,205
TP	1708		71° 06' 42"	+20.8	10.2	89° 10'	+24.8	+14.6		1659.4	TP	-57	+1707	921472	1,587,342
TP	1708			--	9.9	270° 50'	+24.8	+14.9	+14.73		TP				
	580		302° 44' 49"	--	8.9	91°	+10.1	+19.0		1678.4	BS	-466	+345		
	580			--	8.8	269°	+10.1	+18.9			BS				
190	378		303° 25'	--	6.8	92° 10'	-14.2	-21.1		1657.3		+307	-221	921313	1,587,466
191	56		290° 40'	--	7.3	92° 10'	-2.1	-9.4		1669.0		+37	-42	921043	1,587,645
X	0			--	5.0	-		-5.0		1673.4	X	0	0	921066	1,587,687
192	271		67° 30'	+20.8	7.1	87° 10'	+13.4	+6.3		1684.7		+8	+271	921014	1,587,958
193	601		63° 14'	--	4.8	87° 34'	+25.5	+20.7		1699.1		+62	+598	921068	1,588,285
TP	637		61° 58' 41"	--	6.7	87° 34'	+27.0	+20.3		1698.7	TP	+80	+631	921086	1,588,318
TP	637			--	6.6	272° 26'	+27.0	+20.4			TP				
	1111		262° 40' 16"	--	9.7	-		+9.7		1708.2	BS	-259	+1080		
	1111			--	9.3	-		+9.3	+9.3		BS				
194	811		263° 09'	+20.8	10.8	89° 40'	+4.7	-6.1		1702.1		+196	-787	921023	1,588,611
195	481		263° 15'	--	7.0	89° 10'	+7.0	+0.0		1708.2		+117	-467	920944	1,588,931
196	152		256° 53'	--	5.7	89° 10'	+2.2	-3.5		1704.7		+20	-151	920847	1,589,247
X	0			--	5.0	-		-5.0		1703.2	X	0	0	920807	1,589,398
197	165		61° 25'	--	10.3	90° 20'	-1.0	-11.3		1696.9		+22	+163	920849	1,589,561

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.19.84		B. Cotcamp		R. TROWBRIDGE		6834		K1		2		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1708.2						
198	493		56° 50'	+20.8	10.1	90° 20'	-2.9	-13.0		1695.2		+106	+482	920933	1,589,880
199	828		56° 29' 54"	-	3.0	91° 20'	-19.3	-22.3		1685.9	TP	+182	+808	921009	1,590,206
199	828				5.4	91° 10'	-16.9	-22.3			TP				Access
	187		264° 46' 53"	- - 1	3.1	89° -	-3.3	-0.2	1685.7		BS	-50	+180		STA.
	187				+2.5	89° 10'	-2.7	-0.2			BS				
π	0				5.0	-		-5.0		1680.2	π	0	0	920959	1,590,386
π	160		130° 37' 25"	-	6.8	90° 30'	-1.4	-8.2		1677.5	π	-141	+77	920818	1,590,463
200															

Y = 920,825 X = 1,590,500
π - INTER. EL. 1677.5

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-14-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		16				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
K ₁		Bm								1713.6	K				VERTICAL TRAVERSE	
BS	569				+3.8	87° 40'	-3.3	+0.5	1714.1		BS				to STA. 200 ↓	
BS	569				+3.7	270° 20'	-3.3	+0.4		BS						
X	0				5.0	-		-5.0		1709.1	X					
TP	760				6.4	88° 20'	+22.1	+15.7	1729.9		TP					
TP	760				6.1	271° 40'	+22.1	+16.0		+158	TP					
	1570				+8.2	88° 40'	-36.5	-28.3	1701.4		BS					
	1570				+7.7	271° 20'	-36.5	-28.8		-285	BS					
X	0				5.0	-		-5.0		1696.4	X					
TP	567				2.4	91° 20'	-13.2	-15.6	1685.8		TP					
TP	567				2.3	268° 40'	-13.2	-15.5			TP					
	411				+4.9	89° -	-7.2	-2.3	1683.5		BS					
	411				+4.8	271° -	-7.2	-2.4			BS					
			PLATES OF GRID 161° 05' 12" W 0 00 00 (238° 35') 357 30												y-920,825 x-1,590,500 T-intersect	
14	229				7.3	89° 40'	+1.3	-6.0		1677.5	K ₁	-217	+74		Horizontal T ₁ 14	
200	226				7.3	89° 40'	+1.3	-6.0		1677.5		+210	-83	920,818	1,590,491	SUNSHOT TAKEN TO
X ₁	0				5.0	-		-5.0		1678.5	X	0	0	920,608	1,590,574	DETERMINE STARTING GRID AZIMUTH
201	104		175° 20' (15625)		5.7	88° 30'	+2.7	-3.0		1680.5		-95	+42	920,513	1,590,616	
TP, 202	435		163° 56' 50"		5.1	89° -	+7.6	+2.5	1686.0		TP	-356	+249	920,253	1,590,822	Access STA.
TP, 202	435		(145° 02' 02")		5.0	271° -	+7.6	+2.5			TP	+1	-1			

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6.14.84		B. Cotcamp		R. Trowbridge		6834		B.C.		1		17				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		McKenzie Bridge-15'		OREGON		LANE								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
			Plates → (grids)													
TP ₁			0° 00' 00"							1686.0						
202	0				+5.15	41'		+5.2	1691.2		X	0	0	920,253	1,590,822	ACROSS STA.
203	333		209° 30' (174° 32')		5.0	89°	+5.8	+0.8		1692.0		-331	+32	919,922	1,590,854	
204	658		205° 35' 27"		3.8	89°	+11.5	+7.7		1699.0	TP	-649	+107	919,605	1,590,928	
204	658		(170° 37' 29")		3.6	271°	+11.5	+7.9	+7.8		TP		+1			
202			0° 00' 00"													
204	0				+5.15	41'		+5.2	1704.2		X	0	0	919,605	1,590,928	
205	330		165° 00' (155° 37')		6.3	89°	+5.8	-0.5		1703.7		-301	+136	919,304	1,591,064	
206	660		" " (" ")		8.3	89°	+11.5	+3.2		1707.4		-601	+272	919,004	1,591,200	
207	990		" " (" ")		7.3	89°	+17.3	+10.0		1714.2		-902	+409	918,703	1,591,337	
208	1320		165° 10' (155° 47')		7.8	88° 40'	+30.8	+23.0		1727.2		-1204	+541	918,401	1,591,469	
TP ₂	1453		163° 54' 26"		3.7	88° 50'	+29.6	+25.9		1730.3	TP	-1312	+625	918,294	1,591,552	
TP ₂	1453		(154° 31' 55")		3.3	271° 10'	+29.6	+26.3	+26.1		TP		+1			
204			0° 00' 00"													
TP ₂	0				+5.1	41'		+5.1	1735.4		X	0	0	918,294	1,591,552	
209	191		150° 00' (124° 32')		6.2	90° 30'	-1.7	-7.9		1727.5		-108	+157	918,186	1,591,709	
210	518		140° 45' (115° 17')		9.3	91° 30'	-13.6	-22.9		1712.5		-221	+468	918,073	1,592,020	
TP ₃ 211	850		141° 02' 26"		2.8	91° 30'	-22.3	-25.1		1710.4	TP	-367	+766	917,928	1,592,317	
TP ₃ 211	850		(115° 34' 21")		2.5	268° 36'	-22.3	-24.8	-25.0		TP		+1			ACROSS STA.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.14.84		B. Cotcamp		R. Trowbridge		6834		B.G.		2		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates → (92.05)												
TP ₂			0 00 00"							1710.4					
211	0				+5.05	Hi		+5.0	1715.4		X	0	0	917,928	1,592,317
212	333		214° 25' (149° 59')		8.9	89° -	+58	-3.1		1712.3		-288	+167	917,640	1,592,484
Bm	470		208° 44' 06" (144° 18' 27")		5.9	89° 30'	+4.1	-1.8		1713.6	Bm	-382	+274	917,546	1,592,591
213	663		214° 50' (150° 24')		9.1	89° 10'	+97	+0.6		1716.0		-576	+327	917,352	1,592,644
214	993		214° 52' (150° 26')		4.9	89° 16'	+14.5	+9.6		1725.0		-864	+490	917,064	1,592,807
TP ₃	1115		213° 25' 47"		4.8	89° 10'	+16.2	+11.4		1727.0	TP	-956	+574	916,973	1,592,890
TP ₃	1115		(149° 00' 08")		4.5	270° 50'	+16.2	+11.7	+11.6		TP	+1	-1		
211			0 00 00												
TP ₃	0				+5.1	Hi		+5.1	1732.1		X	0	0	916,973	1,592,890
215	206		155° 20' (124° 20')		5.8	89° 20'	+2.4	-3.4		1728.7		-116	+170	916,857	1,593,060
216	536		153° 06' (122° 06')		6.7	89° 20'	+6.2	-0.5		1731.6		-285	+454	916,688	1,593,344
217	866		152° 36' (121° 36')		4.0	89° 20'	+10.1	+6.1		1738.2		-454	+738	916,519	1,593,628
218	1196		152° 22' (121° 22')		4.0	89° 16'	+17.4	+13.4		1745.5		-623	+1021	916,350	1,593,911
TP ₄	1386		151° 50' 39"		6.6	89° 10'	+20.2	+13.6		1745.9	TP	-711	+1190	916,263	1,594,079
TP ₄	1386		(120° 50' 47")		6.3	270° 50'	+20.2	+13.9	+13.8		TP	+1	-1		
TP ₃			0 00 00												
TP ₄	0				+5.0	Hi		+5.0	1750.9		X	0	0	916,263	1,594,079
219	131		145° 30' (86° 21')		8.2	88° -	+4.6	-3.6		1747.3		+8	+131	916,271	1,594,210

g-917,595 x-1,592,590
 U.S.G.S. Bm K-360 E.L. 1713
 G

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-14-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP ₆			0° 00' 00"							1827.1					
TP ₅	0				+4.9	Hi		+4.9	1832.0		X	0	0	915.345	1,596,962
229	215		194° 26' (138° 49')		5.2	88° 40'	+5.0	-0.2		1831.8		-162	+142	915.183	1,597,104
230	545		192° 13' (136° 42')		8.6	88° 46'	+12.7	+4.1		1836.1		-397	+374	914.948	1,597,336
231	875		192° 04' (136° 33')		9.9	88° 46'	+20.4	+10.5		1842.5		-635	+602	914.710	1,597,564
232	1205		191° 59' (136° 28')		16.2	88° 40'	+28.1	+17.9		1849.9		-874	+830	914.471	1,597,792
233	1535		191° 51' (136° 26')		8.4	88° 50'	+31.3	+22.9		1854.9		-1112	+1058	914.233	1,598,020
234	1865		" " " "		4.5	88° 50'	+38.0	+33.5		1865.5		-1351	+1285	913.994	1,598,247
235	2195		191° 50' (136° 19')		6.7	88° 50'	+44.8	+38.1		1870.1		-1587	+1516	913.758	1,598,478
236	2525		" " " "		7.3	88° 50'	+51.5	+44.2		1876.2		-1826	+1744	913.519	1,598,706
237	2854	2853.4	191° 16' 56"		9.0	88° 50'	+58.3	+49.3		1881.8	TP	-2045	+1990	913.301	1,598,952
237	2854		(135° 46' 14")		8.1	271° 10'	+58.3	+50.2	+49.83		TP	"			
TP ₇			0° 00' 00"												
237	0				+4.95	Hi		+4.9	1886.7		X	0	0	913.301	1,598,952
238	330		167° 30' (123° 16')		6.3	88° 50'	+6.7	+0.4		1887.1		-181	+276	913.120	1,599,228
239	660		" " " "		7.8	88° 50'	+13.4	+5.6		1892.3		-362	+552	912.939	1,599,504
240	990		" " " "		9.4	88° 50'	+20.2	+10.8		1897.5		-543	+828	912.758	1,599,780
241	1320		" " " "		11.0	88° 50'	+26.9	+15.9		1902.6		-724	+1104	912.577	1,600,056
242	1650		" " " "		11.3	88° 50'	+33.7	+22.4		1909.1		-905	+1380	912.396	1,600,332
243	1980		" " " "		8.0	88° 50'	+40.4	+32.4		1919.1		-1086	+1656	912.215	1,600,608

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6-14-84		B. Cotcamp		R. Trowbridge		6834		B.C.			2		21		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		McKenzie Bridge-15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			Plates → (geoids)						1886.7						
TP ₈	2228		166° 46' 18"		7.1	88° 50'	+45.5	+38.4	} +38.6	1925.3	TP	-1198	+1878	912,104	1,600,830
TP ₈	2228		(122° 32' 32")		6.6	271° 10'	+45.5	+38.9		TP		+			
237			0 00 00												
TP ₈	0				+4.9	h.i.		+4.9	} 1930.2		X	0	0	912,104	1,600,830
244	81		161° 00' (103° 33')		5.8	88° -	+2.8	-3.0			1927.2		-19	+79	912,085
245	410		156° 42' (99° 15')		9.7	88° -	+14.3	+4.6		1934.8		-66	+405	912,038	1,601,235
246	739		155° 15' (97° 48')		7.1	88° -	+25.8	+18.7		1948.9		-100	+732	912,004	1,601,562
TP ₉	818		153° 54' 04"		5.0	88° 10'	+26.2	+21.2	} +21.3	1951.5	TP	-92	+812	912,013	1,601,642
TP ₉	818		(96° 26' 36")		4.8	271° 50'	+26.2	+21.4		TP		+			
TP ₉	0		0 00 00												
TP ₉	0		(55° 50' 169")		+5.05	h.i.		+5.0	} 1956.5		X	0	0	912,013	1,601,642
247 #	41		139° 23' 33"		5.9	88° -	+1.4	-4.5			1952.0	#	+23	+34	912,036
247	255		151° 40' (68° 07')		5.6	88° 50'	+5.2	-0.4		1956.1		+95	+237	912,108	1,601,879
248	567		140° 26' 21"		5.9	89° 20'	+6.6	+0.7	} +21.3	1957.2	TP	+310	+475	912,324	1,602,117
248	567		(56° 52' 57")		5.8	270° 40'	+6.6	+0.8		TP		+			
TP ₉			0 00 00												
248	0				+5.05	h.i.		+5.0	} 1962.2		X	0	0	912,324	1,602,117
249	330		168° 30' (45° 23')		4.5	89° -	+5.8	+1.3			1963.5		+232	+235	912,556
TP ₁₀	574		169° 17' 42"		3.9	89° -	+10.0	+6.1	} +21.3	1968.3	TP ₁₀	+397	+414	912,722	1,602,531
TP ₁₀	574		(46° 10' 39")		3.8	271° -	+10.0	+6.2		TP ₁₀		+			

276 27 12" computed
 sunshot taken
 y = 912,050 x = 1,601,700
 # creek crossing

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-15-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		22							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		McKenzie Bridge-15		OREGON		LANE								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
248			Plates 7 (9.105)							1968.3									
TP ₁₀	0		0° 00' 00"		+4.9	H.I.		+4.9	1973.2		π	0	0	912,722	1,602,531				
250	96		221° 27' (87° 38')		6.2	89° -	+1.7	-4.5		1968.7		+4	+96	912,726	1,602,627				
251	423		211° 00' (77° 11')		7.1	88° 10'	+13.5	+6.4		1979.6		+94	+412	912,816	1,602,943				
252	759		211° 05' 34"		3.4	88° 10'	+24.3	+20.9		1994.1	TP	+167	+740	912,890	1,603,271				
252	759		(77° 16' 13")		3.3	271° 50'	+24.3	+21.0			TP	+1							ACROSS STA.
TP ₁₀			0° 00' 00"																
252	0				+4.85	H.I.		+4.8	1998.9		π	0	0	912,890	1,603,271				
253	332		209° 14' (106° 30')		5.8	89° -	+5.8	-0.0		1998.9		-94	+318	912,796	1,603,589				
254	660		207° 38' (104° 54')		5.7	89° -	+11.5	+5.8		2004.7		-170	+638	912,720	1,603,909				
TP ₁₁	879		204° 50' 50"		6.5	89° -	+15.4	+8.9		2007.8	TP	-184	+859	912,706	1,604,130				
TP ₁₁	879		(102° 07' 03")		6.4	271° -	+15.4	+9.0			TP								
TP ₁₀			0° 00' 00"																
TP ₁₁	0				+4.7	H.I.		+4.7	2012.5		π	0	0	912,706	1,604,130				
255	107		139° 00' (61° 07')		5.3	-		-5.3		2007.2		+52	+94	912,758	1,604,224				
256	431		123° 10' (45° 17')		6.9	-		-6.9		2005.6		+303	+306	913,009	1,604,436				
TP ₁₂	552		122° 55' 10"		5.3	-		-5.3		2007.2	TP	+390	+391	313,096	1,604,521				
TP ₁₂	552		(45° 02' 13")		5.2	270° -		-5.2			TP								
TP ₁₁			0° 00' 00"																
TP ₁₂	0				+5.05	H.I.		+5.0	2012.2		π	0	0	313,096	1,604,521				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.15.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates → (grios)												
272			0 00 00							2188.5					
TP ₁₆	0			+5.0	4i			+5.0	2193.5		X	0	0	914,370	1,610,159
275	257		197° 35' (95° 50')		6.1	86° 30'	+15.7	+9.6		2203.1		-26	+256	914,344	1,610,415
276	587		194° 45' (92° 60')		5.3	87° 30'	+25.6	+20.3		2213.8		-31	+586	914,339	1,610,745
TP ₁₇	805	804.2	193° 27' 54"		6.6	87° 30'	+35.1	+28.5		2222.0	TP	-24	+804	914,346	1,610,963
TP ₁₇	805		(91° 42' 35")		6.5	272° 30'	+35.1	+28.6			TP				
TP ₁₆			0 00 00												
TP ₁₇	0			+5.15	4i			+5.1	2227.1		X	0	0	914.346	1,610,963
277	110		160° 15' (71° 58')		6.1	87° -	+5.8	-0.3		2226.8		+34	+105	914,380	1,611,068
278	437		149° 16' (60° 59')		6.4	87° 50'	+16.5	+10.1		2237.2		+212	+382	914,558	1,611,345
TP ₁₈	546		149° 49' 41"		3.9	88° -	+19.1	+15.2		2242.3	TP	+260	+480	914,606	1,611,443
TP ₁₈	546		(61° 32', 16")		3.8	272° -	+19.1	+15.3			TP				
TP ₁₇			0 00 00												
TP ₁₈	0			+5.15	4i			+5.1	2247.4		X	0	0	914.606	1,611,443
279	226		205° 20' (86° 52')		6.7	86° 20'	+14.5	+7.8		2255.2		+12	+226	914.618	1,611,669
280	549		198° 20' (79° 52')		8.8	86° 20'	+35.1	+26.3		2273.7		+97	+540	914,703	1,611,983
TP ₁₉	841	839.4	203° 53' 22"		5.6	86° 30'	+51.4	+45.8		2293.2	TP	+67	+837	914,673	1,612,280
TP ₁₉	841		(85° 25', 38")		5.5	273° 30'	+51.4	+45.8			TP				
TP ₁₈			0 00 00												
TP ₁₉	0			+5.35	4i			+5.3	2298.5		X	0	0	914,673	1,612,280

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6.15.84		B. Cotcamp		R. Trowbridge		6834		B.C.			2		26		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates → (Grids)						2298.5						
281	32		203° 20' (108° 46')		4.9	88° -	+ 1.1	- 3.8		2294.7		- 10	+ 30	914,663	1,612,310
282	356		170° 30' (75° 56')		4.9	87° -	+ 18.6	+ 13.9		2312.2		+ 87	+ 345	914,760	1,612,625
283	686		169° 14' (74° 40')		7.0	86° 40'	+ 39.9	+ 32.9		2331.4		+ 181	+ 662	914,854	1,612,942
TP ₂₀	777	775.9	168° 32' 28"		1.9	87° -	+ 40.7	+ 38.8		2337.4	TP	+ 214	+ 746	914,887	1,613,026
TP ₂₀	777		(73° 58' 06")		1.7	273° -	+ 40.7	+ 39.0	+ 38.9		TP				
TP ₁₉			0 00 00												
TP ₂₀	0				+ 5.25	Hi		+ 5.2		2342.6	π	0	0	914,887	1,613,026
284	237		172° 50' (66° 48')		6.8	86° 20'	+ 15.2	+ 8.4		2351.0		+ 93	+ 218	914,980	1,613,244
285	567		169° 25' (63° 23')		8.2	86° 20'	+ 36.3	+ 28.1		2370.7		+ 254	+ 507	915,141	1,613,533
TP ₂₁	811	809.5	168° 58' 28"		5.7	86° 30'	+ 49.5	+ 43.8		2386.4	TP	+ 368	+ 721	915,255	1,613,747
TP ₂₁	811		(62° 56' 34")		5.6	273° 30'	+ 49.5	+ 43.9			TP				
TP ₂₀			0 00 00												
TP ₂₁	0				+ 4.8	Hi		+ 4.8		2391.2	π	0	0	915,255	1,613,747
286	103		234° 00' (116° 57')		5.9	87° -	+ 5.4	- 0.5		2390.7		- 47	+ 92	915,208	1,613,839
287	432		236° 00' (118° 57')		5.2	87° -	+ 22.6	+ 17.4		2408.6		- 209	+ 378	915,046	1,614,125
TP ₂₂	540	539.3	234° 49' 08"		4.3	87° -	+ 28.3	+ 24.0		2415.2	TP	- 251	+ 477	915,004	1,614,224
TP ₂₂	540		(117° 45' 42")		4.2	273° -	+ 28.3	+ 24.1			TP				
TP ₂₁			0 00 00												
TP ₂₂	0				+ 4.75	Hi		+ 4.7		2419.9	π	0	0	915,004	1,614,224

Geosource Inc.

DATE		INSTRUMENT MAN			ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE	
6.15.84		B. Cotcamp			R. TROWBRIDGE		6834		B.C.			2		27	
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates → (grids)						2419.9						
288	217		179° 00' (116° 46')		6.0	86° -	+15.1	+9.1		2429.0		-98	+194	914,906	1,614,418
TP ₂₃	346	345.4	175° 35' 48"		5.0	86° 40'	+20.1	+15.1		2435.0	TP	-137	+317	914,867	1,614,541
TP ₂₃	346		(113° 21' 30")		4.0	86° 50'	+19.1	+15.1			TP				
TP ₂₂			0° 00' 00"												
TP ₂₃	0				+4.85	Hi		+4.8	2439.8		X	0	0	914,867	1,614,541
289	205		151° 55' (85° 17')		4.2	88° -	+7.2	+3.0		2442.8		+17	+204	914,884	1,614,745
290	535		150° 25' (83° 47')		7.0	88° -	+18.7	+11.7		2451.5		+58	+532	914,925	1,615,073
291	865		150° 11' (83° 33')		8.0	88° 10'	+27.7	+19.7		2459.5		+97	+860	914,964	1,615,401
If	1078		149° 31' 36" (82° 26')		8.8	88° 10'	+34.5	+25.7		2465.5	If	+133	+1069	915,000	1,615,610
292	1195		150° 09' (83° 27')		8.8	88° 10'	+38.3	+29.5		2469.3		+136	+1187	915,003	1,615,728
293	1525	1524.2	149° 59' 54"		11.2	88° 10'	+48.8	+37.6		2477.5	TP	+176	+1514	915,044	1,616,055
293	1525		(83° 21' 24")		10.9	271° 50'	+48.8	+37.9	+37.73		TP	+1			
TP ₂₃			0° 00' 00"												
293	0				+4.65	Hi		+4.6	2482.1		X	0	0	915,044	1,616,055
294	330		168° 15' (71° 36')		5.3	87° 40'	+13.4	+8.1		2490.2		+104	+313	915,148	1,616,368
295	659		166° 34' (69° 55')		5.7	87° 30'	+28.8	+23.1		2505.2		+226	+619	915,270	1,616,674
TP ₂₄	730	729.3	166° 13' 26"		5.6	87° 30'	+31.9	+26.3		2508.4	TP	+254	+683	915,299	1,616,738
TP ₂₄	730		(69° 34' 44")		5.5	272° 30'	+31.9	+26.4			TP	+1			

$\frac{1}{1} = \frac{915,000}{1,615,610} \times -1,615,610$
 T-Inter.
 Horiz. - 15'
 Corr. X - 8'

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE						
6.15.84		B. Cotcamp		R. Trowbridge		6874		B.C.			2		28						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		3 SISTERS - 15'		ORE.		LANE								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
			PLATES → (geoids)																
293			0 00 00							2508.4									
TP ₂₄	0				+ 5.05	H _i		+ 5.0	2513.4		X	0	0	915.299	1,616.738				
296	257		173° 00' (62° 35')		6.7	87° -	+ 13.5	+ 6.8		2520.2		+ 118	+ 228	915.417	1,616.966				
297	584		169° 00' (58° 35')		6.9	87° -	+ 30.6	+ 23.7		2537.1		+ 304	+ 498	915.603	1,617.236				
TP ₂₅	660	659.1	169° 17' 36"		4.9	87° -	+ 34.6	+ 29.7		2543.1	TP	+ 341	+ 564	915.641	1,617.302				
TP ₂₅	660		(58° 52' 20")		4.8	273° -	+ 34.6	+ 29.8			TP	+							
TP ₂₄			0 00 00																
TP ₂₅	0				+ 5.05	H _i		+ 5.0	2548.1		X	0	0	915.641	1,617.302				
298	262		218° 34' (97° 26')		8.6	86° -	+ 18.3	+ 9.7		2557.8		- 34	+ 260	915.607	1,617.562				
299	592		217° 00' (95° 52')		11.1	86° -	+ 41.3	+ 30.2		2578.3		- 61	+ 589	915.580	1,617.891				
TP ₂₆	674	672.7	216° 33' 16"		6.2	86° 30'	+ 41.2	+ 35.0		2583.1	TP	- 64	+ 670	915.578	1,617.972				
TP ₂₆	674		(95° 25' 36")		6.1	273° 30'	+ 41.2	+ 35.1			TP	+							
TP ₂₅			0 00 00																
TP ₂₆	0				+ 5.0	H _i		+ 5.0	2588.1		X	0	0	915.578	1,617.972				
300	246		158° 55' (74° 21')		7.0	86° 20'	+ 15.7	+ 8.7		2596.8		+ 66	+ 237	915.644	1,618.209				
301	574		156° 12' (71° 38')		8.7	86° 20'	+ 36.7	+ 28.0		2616.1		+ 181	+ 545	915.759	1,618.517				
TP ₂₇	873	871.4	156° 10' 01"		6.6	86° 30'	+ 53.3	+ 46.7		2634.8	TP	+ 275	+ 827	915.854	1,618.799				
TP ₂₇	873		(71° 35' 37")		6.5	273° 30'	+ 53.3	+ 46.8			TP	+							

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6.15.84		B. Lotcamp		R. Trowbridge		6834		B.C.		2		29				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
			PLATES - 7 (grips)													
TP26			0 00 00							2634.8						
TP27	0				+4.85	H.i.		+4.8	2639.6		π	0	0	915.854	1,618.799	
302	40		227 00 (118° 36')		6.3	86° 20'	+2.6	-3.7		2635.9		-19	+35	915.835	1,618.834	
303	369		217 00 (108° 36')		7.0	86° 20'	+23.6	+16.6		2656.2		-118	+350	915.736	1,619.149	
TP28	435	434.1	216 28 20		6.5	86° 20'	+27.8	+21.3		2660.9	TP	-135	+413	915.720	1,619.212	
TP28	435		(108° 03' 57")		6.4	273 40'	+27.8	+21.4			TP	+1				
TP21			0 00 00													
TP28	0				+5.15	H.i.		+5.1	2666.0		π	0	0	915.720	1,619.212	
304	263		167 30 (95° 34')		6.3	86° 30'	+11.1	+9.8		2675.8		-26	+262	915.694	1,619.474	
305	592		165 08 (93° 12')		7.0	86° 30'	+36.1	+29.1		2695.1		-33	+591	915.687	1,619.803	
306	924	922.3	165 13 38		6.8	86° 30'	+56.4	+49.6		2715.7	TP	-53	+921	915.668	1,620.133	
306	924		(93° 17' 35")		6.5	273 30'	+56.4	+49.9	+49.7		TP	+1				
TP28			0 00 00													
306	0				+5.15	H.i.		+5.1	2720.8		π	0	0	915.668	1,620.133	
307	329	328.4	203 44 56		4.9	86° 30'	+20.1	+15.2		2736.0	TP	-149	+292	915.520	1,620.425	
307	329		(117° 02' 31")		4.8	273 30'	+20.1	+15.3			TP	+1				
306			0 00 00													
307	0				+5.1	H.i.		+5.1	2741.1		π	0	0	915.520	1,620.425	
308	330		162 20 (99° 23')		6.5	86° 30'	+20.1	+13.6		2754.7		-54	+326	915.466	1,620.751	

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6.15.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		30				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		3 - SISTERS - 15		ORE.		LANE								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH -	EAST + WEST -		Y	X
			PLATES → (GRIDS)						2741.1							
TP ₂₇	632	630.8	161° 58' 07"		4.8	86° 30'	+38.6	+33.8	}	2775.0	TP	-99	+623	915.422	1,621,048	(a)
TP ₂₈	632		(99° 00' 38")		4.7	273° 30'	+38.6	+33.9			TP	+				
307			0 00 00													
TP ₂₉	0				+5.05	H.I.		+5.1	2780.1		T	0	0	915.422	1,621,048	
309	41		240° 25' (159° 26')		6.5	88° -	+1.4	-5.1	}	2775.0		-38	+14	915,384	1,621,062	
310	363		227° 13' 22"		3.0	87° -	+19.0	+16.0			TP	-301	+201	915,122	1,621,249	
310	363		(146° 13' 60")		2.9	273° -	+19.0	+16.1	}	2796.2	TP	+				
TP ₂₉			0 00 00													
310	0				+5.05	H.I.		+5.1	2801.3		T	0	0	915,122	1,621,249	
311 TP ₃₀	328		137° 31' 16"		3.8	87° -	+17.2	+13.4	}	2814.8	TP	-78	+318	915,045	1,621,567	
311 TP ₃₀	328		(103° 45' 16")		3.7	273° -	+17.2	+13.5			TP	+				
310			0 00 00													
311	0		(123° 30' 15")		+5.2	H.I.		+5.2	2820.0		T	0	0	915,045	1,621,567	
Bm	250		199° 45' 38"		10.1	85° -	+21.8	+11.7	}	2831.7	Bm	-138	+208	914,907	1,621,775	914,890 X=1,621,765 914,943 S.C. + G.S. Bm El. 2831.7
312	328	321.4	195° 09' 34"		4.6	86° 30'	+20.0	+15.4			TP	-158	+287	914,888	1,621,854	
312	328		(118° 54' 50")		4.5	273° 30'	+20.0	+15.5	}	2840.5	TP	+				
311			0 00 00													
312	0				+5.1	H.I.		+5.1	2840.5		T	0	0	914,888	1,621,854	
313	322		138° 20' (77° 15')		6.6	86° 20'	+20.6	+14.0		2854.5		+71	+314	914,959	1,622,168	LAST STA. ON ROAD

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.15.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Sisters - 15'		ORE.		LAW								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS $\bar{\lambda}$ TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2840.5						
TP ₃₁	395	393.8	140° 59' 09"		5.1	85° 30'	+31.0	+25.9			TP	+69	+388	914,958	1,622,242
TP ₃₁	395		(79° 53' 59")		5.0	274° 30'	+31.0	+26.0		2866.5	TP	+			
TP _{31R}			0 00 00												
TP ₃₁	0				+4.85	H.		+4.9		2871.4	$\bar{\lambda}$	0	0	914,958	1,622,242
TP ₃₂	130	128.7	170° 01' 55"		3.4	82° -	+18.1	+14.7			TP	+44	+121	915,003	1,622,363
TP ₃₂	130		(69° 55' 54")		3.3	278° -	+18.1	+14.8		2886.2	TP	+			
TP ₃₁			0 00 00												
TP ₃₂	0				+4.7	H.		+4.7		2890.9	$\bar{\lambda}$	0	0	915,003	1,622,363
314	122		175° 08' (65° 04')		5.0	86° 35'	+7.3	+2.3		2893.2		+51	+111	915,054	1,622,474
TP ₃₃	122		175° 22' 05"		4.7	86° 50'	+6.7	+2.0			TP	+51	+111	915,055	1,622,474
TP ₃₃	122		(65° 17' 59")		3.6	87° 20'	+5.7	+2.1		2893.0	TP	+			
TP ₃₂			0 00 00												
TP ₃₃	0				+4.2	H.		+4.2		2897.2	$\bar{\lambda}$	0	0	915,055	1,622,474
TP ₃₄	216	215.0	177° 07' 11"		6.6	85° 20'	+17.6	+11.0			TP	+100	+191	915,156	1,622,665
TP ₃₄	216		(62° 25' 10")		6.5	274° 40'	+17.6	+11.1		2908.3	TP	+			
TP ₃₃			0 00 00												
TP ₃₄	0				+4.65	H.		+4.7		2913.0	$\bar{\lambda}$	0	0	915,156	1,622,665
315	106		213° 02' (95° 27')		6.4	88° -	+3.7	-2.7		2910.3		-10	+106	915,146	1,622,771
TP ₃₅	255	253.9	207° 24' 24"		5.0	84° 34' 30"	+24.1	+19.1		2932.1	TP	+	+254	915,158	1,622,919
TP ₃₅	255		(89° 49' 34")		5.0	275° 25' 30"	+24.1	+19.1			TP	+			

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-16-84		B. Cotcamp		R. Trowbridge		6834		R.T.		2	33				
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER					
OREGON		3 Sisters - 15'		ORE.		LANE				L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (GRIDS)												
TP38			0 00 00							3037.2					
TP39	0				+5.05	M.		+5.1	3042.3		π	0	0	914,526	1,623,917
320	216		152° 25' (101° 18')		6.8	88°	+7.5	+0.7		3043.0		-42	+212	914,484	1,624,129
TP40	430		146° 17' 53"		6.6	88°	+15.0	+8.4			TP	-39	+428	914,488	1,624,345
TP40	430		(95° 11' 16")		6.5	272°	+15.0	+8.5		3050.8	TP	+1			
TP39			0 00 00												
TP40	0				+5.2	M.		+5.2	3056.0		π	0	0	914,488	1,624,345
321	111		164° 00' (79° 11')		5.2	88°	+3.9	-1.3		3054.7		+21	+109	914,509	1,624,454
TP41	348		155° 38' 54"		5.0	87° 30'	+15.2	+10.2		3066.2	TP	+114	+328	914,603	1,624,673
TP41	348		(70° 50' 10")		4.9	272° 30'	+15.2	+10.3			TP	+1			
TP40			0 00 00												
TP41	0				+5.15	M.		+5.1	3071.3		π	0	0	914,603	1,624,673
322	87		175° 00' (65° 50')		5.4	86°	+6.1	+0.7		3072.0		+36	+79	914,639	1,624,752
TP42	277		168° 48' 10"		3.4	87°	+14.5	+11.1		3082.4	TP	+140	+239	914,744	1,624,912
TP42	277		(59° 38' 20")		3.3	273°	+14.5	+11.2			TP	+1			
TP41			0 00 00												
TP42	0				+5.3	M.		+5.3	3087.7		π	0	0	914,744	1,624,912
323	138		195° 10' (71° 48')		5.3	87° 20'	+6.4	+1.1		3088.8		+36	+133	914,780	1,625,045
324	468		193° 45' (73° 23')		6.8	87° 50'	+17.7	+10.9		3098.6		+134	+448	914,878	1,625,360

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-16-84		B. Cotcamp		R. TROWBRIDGE		6834		R.T.		2		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			P-ATES → (gr:05)						3087.7						
TP ₄₃	714		192° 33' 15"		5.2	88° 10'	+22.9	+17.7	}	3105.4	TP	+218	+679	914,963	1,625,591
TP ₄₃	714		(72° 11' 35")		5.1	271° 50'	+22.9	+17.8		TP		+			
TP ₄₂			0 00 00												
TP ₄₃	0				+4.9	Mi		+4.9	}	3110.3	π	0	0	914,963	1,625,591
325	88		163° 30' (55° 42')		4.8	88° 52'	+1.7	-3.1			3107.2		+50	+73	915,013
TP ₄₄	185	181.6	163° 32' 14"		4.9	79° -	+35.3	+30.4	}	3140.7	TP	+102	+150	915,066	1,625,741
TP ₄₄	185		(55° 43' 49")		4.8	281° -	+35.3	+30.5				TP	+		
TP ₄₃			0 00 00												
TP ₄₄	0				+5.25	Mi		+5.2	}	3145.9	π	0	0	915,066	1,625,741
326	232		172° 45' (48° 29')		5.6	86° 40'	+13.5	+7.9			3153.8		+154	+174	915,220
TP ₄₅	182		172° 44' 41"		4.5	87° 40'	+7.4	+2.9	}	3148.8	TP	+121	+136	915,188	1,625,877
TP ₄₅	182		(48° 28' 30")		4.5	272° 20'	+7.4	+2.9				TP	+		
TP ₄₄			0 00 00												
TP ₄₅	0				+4.85	Mi		+4.8	}	3153.6	π	0	0	915,188	1,625,877
TP ₄₆	288	279.0	173° 22' 14"		5.9	75° 40'	+71.3	+65.4			3219.0	TP	+208	+186	915,397
TP ₄₆	288		(41° 59' 44")		5.8	284° 20'	+71.3	+65.5			TP	+			BACK ON ROAD
TP ₄₅			0 00 00												
TP ₄₆	0				+4.95	Mi		+4.9	}	3223.9	π	0	0	915,397	1,626,063
327	91		150° 45' (12° 36')		7.6	86° -	+6.3	-1.3			3222.6		+89	+20	915,486

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-16-84		B. Cotcamp		R. Trowbridge		6834		R.T.		2		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATS → (grids)						3223.9						
TP47	191		157° 23' 46"		7.6	86° -	+13.3	+5.7	}	3229.6	TP	+180	+63	915.577	1,626,126
TP47	191		(19° 14' 30")		7.6	274° -	+13.3	+5.7		TP					
TP46			0° 00' 00"												
TP47	0				+5.25	H.		+5.2	}	3234.8	X	0	0	915.577	1,626,126
328	227		229° 27' (68° 42')		5.3	86° 40'	+13.2	+7.9			3242.7		+82	+211	915.659
TP48	361	360.4	229° 54' 11"		5.5	86° 40'	+21.0	+15.5	}	3250.3	TP	+128	+337	915.705	1,626,463
TP48	361		(69° 08' 41")		5.4	273° 20'	+21.0	+15.6			TP				
TP47			0° 00' 00"												
TP48	0				+5.15	H.		+5.1	}	3255.4	X	0	0	915.705	1,626,463
329	188		135° 45' (24° 54')		5.9	87° 30'	+8.2	+2.3			3257.7		+171	+79	915.876
TP49	353		134° 19' 40"		5.3	87° 30'	+15.4	+10.1	}	3265.5	TP	+323	+140	916,028	1,626,603
TP49	353		(23° 28' 21")		5.2	272° 30'	+15.4	+10.2			TP				
TP48			0° 00' 00"												
TP49	0				+5.0	H.		+5.0	}	3270.5	X	0	0	916,028	1,626,603
330	171		214° 30' (57° 58')		5.6	87° -	+9.0	+3.4			3273.9		+91	+145	916,119
TP50	427	426.4	210° 28' 38"		4.0	87° -	+22.4	+18.4	}	3288.9	TP	+251	+345	916,279	1,626,948
TP50	427		(53° 56' 59")		3.9	273° -	+22.4	+18.5			TP				
TP49			0° 00' 00"												
Bm	295		355° 35' 22"		0.0	93° 40' 54"	-18.9	-18.9		3275.1	Bm	-191	-224	916,088	1,626,724
TP50	0		(229° 32' 21")		+5.1	H.		+5.1	}	3294.0	X	0	0	916,279	1,626,948

2-916.055 x -1,626,776
4-5-65 Bm
19m 1927 EL 3275.1

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6.16.84		B. Cotcamp		R. Trowbridge		6834		R.T.		2	36						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 SISTERS - 15'		ORE.	LANE					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
			PLATES → (GRIDS)						3294.0								
331	84		224° 00' (97° 57')		6.0	87° -	+4.4	-1.6		3292.4		-12	+83	916,267	1,627,031		
332	413		216° 10' (90° 07')		5.9	86° 40'	+24.0	+18.1		3312.1		-1	+413	916,278	1,627,361		
TP ₅₁	506	505.1	216° 48' 50"		5.6	86° 40'	+29.4	+23.8			TP	-7	+505	916,272	1,627,453		
TP ₅₁	506		(90° 45' 49")		5.5	273° 20'	+29.4	+23.9		3317.9	TP						
TP ₅₀			0 00 00														
TP ₅₁	0				+5.25	M.		+5.3	3323.2		TP	0	0	916,272	1,627,453		
333	232		217° 00' (127° 46')		5.8	86° -	+16.2	+10.4		3333.6		-142	+183	916,130	1,627,636		
TP ₅₂	282	281.3	213° 18' 11"		5.8	86° -	+19.7	+13.9			TP	-158	+233	916,114	1,627,686		
TP ₅₂	282		(124° 04' 00")		5.7	274° -	+19.7	+14.0		3337.2	TP						
TP ₅₁			0 00 00														
TP ₅₂	0				+5.15	M.		+5.2	3342.4		TP	0	0	916,114	1,627,686		
334	255		106° 40' 31"		4.8	86° 30'	+15.6	+10.8		3353.2	TP	+161	+197	916,275	1,627,883		
334	255		(50° 44' 31")		4.8	273° 30'	+15.6	+10.8			TP						
TP ₅₂			0 00 00														
334	0				+5.2	M.		+5.2	3358.4		TP	0	0	916,275	1,627,883		
335	323		123° 40' (351° 25')		5.8	86° 40'	+18.8	+13.0		3371.4		+321	-31	916,596	1,627,852		
336	653		121° 18' (352° 03')		7.7	86° 40'	+38.0	+30.3		3388.7		+647	-90	916,922	1,627,793		
TP ₅₃	867	865.7	121° 26' 18"		6.5	86° 50'	+47.9	+41.4		3399.8	TP	+858	-118	917,133	1,627,765		
TP ₅₃	867		(352° 10' 49")		6.4	273° 10'	+47.9	+41.5			TP						

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-16-84		B. Cotcamp		R. Trowbridge		6834		R.T.		2		37							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
OREGON		3 SISTERS-15'		ORE.		LANE								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	LAT.	EAST + WEST -	DEP.	COORDINATES		REMARKS	
																Y	X		
334			0° 00' 00"							3399.8									
TP53	0				+5.05	Hi		+5.0	3404.8		π	0	0			917,133	1,627,765		
337	148		270° 15' 58"		5.3	88° -	+5.2	-0.1	3404.7		TP	+19	+147			917,152	1,627,912		
337	148		(82° 26' 47")		5.3	272° -	+5.2	-0.1		TP									
TP53			0° 00' 00"																
337	0				+5.2	Hi		+5.2	3409.9		π	0	0			917,152	1,627,912		
TP54	294		201° 37' 20"		3.3	88° -	+10.3	+7.0	3416.9		TP	-71	+285			917,081	1,628,197		
TP54	294		(104° 04' 07")		3.2	272° -	+10.3	+7.1		TP									
337			0° 00' 00"																
TP54	0				+5.15	Hi		+5.1	3422.0		π	0	0			917,081	1,628,197		
338	30		157° 30' (81° 34')		4.9	88° -	+1.0	-3.9	3418.1			+4	+30			917,085	1,628,227		
TP55	211		141° 06' 52"		5.6	87° -	+11.0	+5.4	3427.4		TP	+88	+191			917,169	1,628,388		
TP55	211		(65° 10' 59")		5.6	273° -	+11.0	+5.4		TP									
TP54			0° 00' 00"																
TP55	0				+4.95	Hi		+4.9	3432.3		π	0	0			917,169	1,628,388		
TP56	170	168.6	161° 28' 49"		5.7	82° 30'	+22.2	+16.5	3448.8		TP	+116	+123			917,285	1,628,511		
TP56	170		(46° 39' 48")		5.6	277° 30'	+22.2	+16.6		TP									
TP55			0° 00' 00"																
TP56	0				+4.75	Hi		+4.7	3453.5		π	0	0			917,285	1,628,511		
339	26		357° 50' (224° 30')		4.8	94° 40'	-2.2	-7.0	3446.5			-19	-18			917,266	1,628,473		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6.16.84		B. Cotcamp		R. Trowbridge		6834		R.T.		2	38					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
OREGON		3 SISTERS - 15		ORE.	LANE					L. O. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
			Plates → (92.105)						3453.5							
TP ₅₁	113	110.9	153° 15' 42"		5.5	79° -	+ 21.6	+16.1 ^x	3469.6	TP	+104	+38	917,389	1,628,549		
TP ₅₂	113		(19° 55' 30")		5.4	281° -	+ 21.6	+16.2							TP	
TP ₅₆			0 00 00													
TP ₅₇	0				+4.8	H.		+4.8	3474.4	A	0	0	917,389	1,628,549		
340	187		176° 26' (16° 22')		5.0	82° 48'	+23.4	+18.4								+179
TP ₅₈	274	270.8	177° 21' 14"		5.2	81° 10'	+42.1	+36.9 ^x	3511.3	TP	+259	+80	917,648	1,628,629		
TP ₅₈	274		(17° 16' 44")		5.1	278° 50'	+42.1	+37.0							TP	
TP ₅₇			0 00 00													
TP ₅₈	0				+5.2	H.		+5.2	3516.5	A	0	0	917,648	1,628,629		
341	241		196° 40' (33° 51')		7.3	86° 20'	+15.4	+8.1								+200
TP ₅₉	302		197° 21' 14"		2.7	87° 10'	+14.9	+12.2 ^x	3528.7	TP	+248	+172	917,896	1,628,801	197° 21' 14"	
TP ₅₉	302		(34° 43' 58")		2.6	272° 50'	+14.9	+12.3							TP	
TP ₅₈			0 00 00													
TP ₅₉	0				+4.85	H.		+4.8	3533.5	X	0	0	917,896	1,628,801		
342	275		223° 10' (77° 54')		8.3	86° 10'	+18.4	+10.1								+58
TP ₆₀	358		220° 56' 22"		4.6	86° 50'	+19.8	+15.2	3548.7	TP	+88	+346	917,984	1,629,147		
TP ₆₀	358		(75° 40' 20")		4.6	273° 10'	+19.8	+15.2							TP	
TP ₅₄			0 00 00													
TP ₆₀	0				+5.2	H.		+5.2	3553.9	A	0	0	917,984	1,629,147		
343	235		169° 30' (65° 10')		5.4	86° 30'	+14.3	+8.9								+99

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.16.84		B. C. Campbell		R. Trowbridge		6834		R.T.		2		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BM	276		245° 07' (381° 05')						3553.9						
TP ₆₁	274		(58° 01' 55")		4.4	86° 30'	+16.9	+12.5		3566.4	BM	+146	+234	918,130	1,629,381
TP ₆₁	274		162° 21' 35"		4.7	86° 30'	+16.7	+12.0		3565.9	TP	+131	+240	918,115	1,629,387
TP ₆₁	274		(61° 22' 20")		4.7	273° 30'	+16.7	+12.0			TP				
TP ₆₀			0 00 00												
TP ₆₁	0				+5.2	M.		+5.2	3571.1		X	0	0	918,115	1,629,387
344	313		229° 04' (110° 26')		6.0	86° 40'	+18.2	+12.2		3583.3		-109	+293	918,006	1,629,680
TP ₆₂	428	427.4	229° 42' 42"		4.1	87° -	+22.4	+18.3			TP	-154	+399	917,961	1,629,786
TP ₆₂	428		(111° 05' 02")		4.0	273° -	+22.4	+18.4		3589.5	TP				
TP ₆₁			0 00 00												
TP ₆₂	0				+5.15	M.		+5.2	3594.7		X	0	0	917,961	1,629,786
345	200		145° 00' (76° 05')		6.4	87° -	+10.5	+4.1		3598.8		+48	+194	918,009	1,629,980
TP ₆₃	374	373.2	140° 07' 24"		4.4	86° 20'	+23.9	+19.5			TP	+120	+353	918,081	1,630,139
TP ₆₃	374		(71° 12' 26")		4.3	273° 40'	+23.9	+19.6		3614.3	TP				
TP ₆₂			0 00 00												
TP ₆₃	0				+4.85	M.		+4.9	3619.2		X	0	0	918,081	1,630,139
346	148		170° 50' (62° 02')		6.4	82° 20'	+19.7	+13.3		3632.5		+69	+131	918,150	1,630,270
TP ₆₄	222	220.0	166° 06' 34"		5.2	82° 10'	+30.3	+25.1			TP	+119	+185	918,200	1,630,324
TP ₆₄	222		(57° 18' 60")		5.1	277° 50'	+30.3	+25.2		3644.4	TP				
TP ₆₃			0 00 00												
TP ₆₄	0				+4.65	M.		+4.6	3649.0		X	0	0	918,200	1,630,324

y - 918,150 x - 1,629,416
 360
 Alder Springs Cor. E.L.
 3566.4

WEST STR. ON ROAD

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6.16.84		B. Cotcamp		R. Trowbridge		6834		R.T.		2	40						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 SISTERS - 15		OREGON	LANE					L. O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									3649.0								
TP ₆₅	571	558.5	163° 24' 22"		5.1	78° -	+118.7	+113.6	}		TP	+423	+364	918,623	1,630,688		
TP ₆₅	571		(40° 43' 22")		5.0	282° -	+118.7	+113.7			3762.7	TP					
			0 00 00														
347	317		358° 10' (28° 53')		4.8	104° 08'	-77.4	-82.2	}	3685.5		-247	-199	918,376	1,630,489		
TP ₆₅	0		358		+5.0	Hi		+5.0			3767.7	TP	0	0	918,623	1,630,688	
348	20		242° 55' (163° 38')		4.8	86° 30'	+1.2	-3.6	}	3764.1		-5	+19	918,618	1,630,707		
TP ₆₆	379	374.97	161° 09' 20"		5.0	81° 37' 44"	+55.2	+50.2			3817.9	TP	+348	+140	918,971	1,630,828	
TP ₆₆	379		(21° 52' 42")		5.0	278° 22' 06"	+55.2	+50.2			TP						
TP ₆₅			0 00 00														
TP ₆₆	0				+4.8	Hi		+4.8	}	3822.7	TP	0	0	918,971	1,630,828		
349	147		297° 40' (139° 33')		8.8	94° -	-10.3	-19.1			3803.6		-112	+95	918,859	1,630,923	
TP ₆₇	195	194.6	257° 12' 33"		3.5	86° 30'	+11.9	+8.4	}		TP	-31	+192	918,940	1,631,020		
TP ₆₇	195		(79° 05' 15")		3.4	273° 30'	+11.9	+8.5			3831.2	TP					
TP ₆₆			0 00 00														
TP ₆₇	0				+5.1	Hi		+5.1	}	3836.3	TP	0	0	918,940	1,631,020		
350	162		91° 40' (12° 45')		7.7	85° -	+14.1	+6.4			3842.7		+159	+30	919,099	1,631,050	
TP ₆₈	210	209.6	91° 18' 01"		3.3	86° 40'	+12.2	+8.9	}	3845.2	TP	+206	+38	919,146	1,631,058		
TP ₆₈	210		(10° 23' 16")		3.3	273° 20'	+12.2	+8.9				TP					
TP ₆₇			0 00 00														
TP ₆₈	0				+4.85	Hi		+4.8	}	3850.0	TP	0	0	919,146	1,631,058		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-16-84		B. Cotcamp		R. Trowbridge		6834		R.T.		2		41				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		3 Sisters - 15'		ORE.		LANE								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
			plates → (grids)						3850.0							
TP69	231		208° 38' 58"		1.7	87° -	+12.1	+10.4	}		TP	+179	+145	919,325	1,631,203	
TP69	231		(39° 02' 14")		1.6	273° -	+12.1	+10.5		*	3860.5	TP				
TP68			0 00 00													
TP69	0				+4.9	M.		+4.9	}	3865.4	TP	0	0	919,325	1,631,203	
351	60		139° 15' (358° 17")		4.6	78° 30'	+12.0	+7.4			3872.8		+60	-2	919,385	1,631,201
TP70	222	217.2	136° 35' 40"		6.2	78° -	+46.2	+40.0	}		TP	+217	-17	919,542	1,631,186	
TP70	222		(355° 37' 54")		6.1	282° -	+46.2	+40.1								
TP69			0 00 00													
TP70	0				+4.95	M.		+4.9	}	3910.3	TP	0	0	919,542	1,631,186	
352	172		152° 20' (328° 58')		6.0	86° 30'	+10.5	+4.5			3914.8		+147	-89	919,689	1,631,097
TP71	268		153° 51' 56"		5.1	86° 30'	+16.4	+11.3	}		TP	+230	-136	919,772	1,631,050	
TP71	268		(329° 29' 50")		5.0	273° 30'	+16.4	+11.4								
TP70			0 00 00													
TP71	0				+5.15	M.		+5.1	}	3926.7	TP	0	0	919,772	1,631,056	
353	245		225° 00' (14° 30')		5.8	86° 30'	+15.0	+9.2			3935.9		+237	+61	920,009	1,631,111
TP72	446		225° 05' 05"		4.6	87° 10'	+22.0	+17.4	}		TP	+431	+112	920,203	1,631,162	
TP72	446		(14° 34' 55")		4.6	272° 50'	+22.0	+17.4								
TP71			0 00 00													
TP72	0				+5.05	M.		+5.0	}	3949.1	TP	0	0	920,203	1,631,162	
354	135		204° 30' (39° 05')		7.4	87° -	+7.1	-0.3			3948.8		+105	+85	920,308	1,631,247

SUNSHOT 305° 37' 54"

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.17.84		B. Cramp		R. Trowbridge		6834		R.T.		2		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (92.05)						3949.1						
TP ₇₃	411	410.4	203° 21' 30"		3.5	87°	+21.5	+18.0			TP	+324	+252	920,527	1,631,414
TP ₇₃	411		(37° 56' 25")		3.4	273°	+21.5	+18.1		3967.2	TP				
TP ₇₂			0° 00' 00"												
TP ₇₃	0				+5.1	Hi		+5.1	3972.3		TP	0	0	920,527	1,631,414
355	64		231° 00' (88° 54')		5.8	86° 40'	+37	-2.1		3970.2		+1	+64	920,528	1,631,478
356	392		221° 20' (79° 16')		7.1	87°	+20.1	+13.4		3985.7		+73	+385	920,600	1,631,799
TP ₇₄	602	601.2	221° 47' 47"		6.5	87°	+31.5	+25.0		3997.3	TP	+107	+592	920,634	1,632,006
TP ₇₄	602		(79° 44' 12")		6.4	273°	+31.5	+25.1			TP				
TP ₇₃			0° 00' 00"												
TP ₇₄	0				+5.0	Hi		+5.0	4002.3		TP	0	0	920,634	1,632,006
357	122		193° 38' (93° 22')		5.6	86°	+8.5	+2.9		4005.2		-7	+122	920,627	1,632,128
358	450		187° 00' (86° 44')		10.1	86°	+31.4	+21.3		4023.6		+26	+449	920,660	1,632,455 EAST SM. ON ROAD
TP ₇₅	571	570.1	186° 18' 18"		4.1	86° 50'	+31.5	+27.4		4029.7	TP	+39	+569	920,673	1,632,575
TP ₇₅	571		(86° 03' 30")		4.1	273° 10'	+31.5	+27.4			TP				
TP ₇₄			0° 00' 00"												
TP ₇₅	0				+5.05	Hi		+5.0	4034.7		TP	0	0	920,673	1,632,575
359	205		194° 45' 57"		6.5	88° 30'	+5.4	-1.1		4033.6	TP	-38	+201	920,635	1,632,776 CROSS COUNTRY
359	205		(100° 48' 27")		6.5	271° 30'	+5.4	-1.1			TP				
TP ₇₅			0° 00' 00"												
359	0				+4.9	Hi		+4.9	4038.5		TP	0	0	920,635	1,632,776

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
6.17.84		B. Cokamp		R. Trowbridge		6834		R.T.		2	43							
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 SISTERS - 15'		OREGON		LANC					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS				
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X		
			PLATES → (grids)						4038.5									
TP76	244	234.2	172° 58' 47"		5.0	73° 40'	+68.6	+63.6	}	4102.1	TP	-15	+234	920,620	1,633,010	back on road		
TP76	244		(93° 47' 14")		5.0	286° 20'	+68.6	+63.6		TP								
T 359			0° 00' 00"															
TP76	0				+4.85	M.		+4.8	}	4106.9	TP	0	0	920,620	1,633,010			
360	112		119° 25' (33' 12")		6.4	86° -	+7.8	+1.4			4108.3		+94	+61	920,714	1,633,071		
361	442		119° 00' (32' 47")		8.4	86° -	+30.8	+22.4			4129.3		+372	+239	920,992	1,633,249		
TP77	563	561.9	117° 36' 48"		5.5	86° 20'	+36.0	+30.5	}	}	TP	+480	+293	921,100	1,633,303	cap		
TP77	563		(31° 24' 02")		5.4	273° 40'	+36.0	+30.6			TP							
TP76			0° 00' 00"															
TP77	0				+5.25	M.		+5.2	}	4142.7	TP	0	0	921,100	1,633,303			
362	188		156° 05' (7° 29")		7.2	86° -	+13.1	+5.9			4148.6		+186	+24	921,286	1,633,327		
TP78	304	303.4	152° 19' 28"		6.0	86° 30'	+18.6	+12.6		}	}	TP	+303	+20	921,403	1,633,323		
TP78	304		(3° 43' 30")		5.9	273° 30'	+18.6	+12.7	TP									
TP77			0° 00' 00"															
TP78	0				+5.1	M.		+5.1	}	4160.4	TP	0	0	921,403	1,633,323			
363	211		191° 20' (15° 04")		6.4	86° -	+14.7	+8.3			4168.7		+204	+55	921,607	1,633,378		
364	540		192° 10' (15° 54")		7.8	86° 20'	+34.5	+26.7			4187.1		+519	+148	921,922	1,633,471		
365	870		" " (" ")		9.3	86° 20'	+55.9	+46.4		4206.8		+837	+238	922,240	1,633,561			
TP79	905	903.3	192° 09' 16"		7.3	86° 30'	+55.3	+48.0	}	}	TP	+869	+247	922,272	1,633,570			
TP79	905		(15° 52' 46")		7.2	273° 30'	+55.3	+48.1			TP							

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-17-84		B. Cotcamp		R. TROWBRIDGE		6834		R.T.		2		44			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP78			0 00 00							4208.5					
TP79	0				+5.1	H.		+5.1	4213.6		X	0	0	922,272	1,633,570
366	303		217° 00' (52° 53')		7.4	87° -	+15.9	+8.5		4222.1		+183	+242	922,455	1,633,812
TP80	349	348.6	216° 26' 14"		4.9	87° 20'	+16.2	+11.3		4224.9	TP	+213	+276	922,485	1,633,846
TP80	349		(52° 18' 60")		4.9	272° 40'	+16.2	+11.3			TP				
TP79			0 00 00												
TP80	0				+5.05	H.		+5.0	4229.9		X	0	0	922,485	1,633,846
367	285		195° 40' (67° 59')		5.2	87° -	+14.9	+9.7		4239.6		+107	+264	922,592	1,631,110
TP81	602	600.7	192° 54' 32"		5.5	86° 14'	+39.5	+34.0		4263.9	TP	+252	+545	922,737	1,634,340
TP81	602		(65° 13' 32")		5.4	273° 46'	+39.5	+34.1			TP		-1		
TP80			0 00 00												
TP81	0				+4.85	H.		+4.8	4268.7		X	0	0	922,737	1,634,390
368	8		180° 00' (65° 14')		5.3	-		-5.3		4263.4		+3	+7	922,740	1,634,397
TP82	369	356.4	192° 28' 25"		3.5	75° -	+95.5	+92.0		4360.7	TP	+76	+348	922,813	1,634,737
TP82	369		(77° 41' 57")		3.4	285° -	+95.5	+92.1			TP		-1		
TP81			0 00 00												
TP82	0				+4.95	H.		+4.9	4365.6		X	0	0	922,813	1,634,737
369	46		325° 08' (222° 50')		8.0	102° 12'	-9.7	-17.7		4347.9		-34	-31	922,779	1,634,706
TP	229	225.4	257° 45' 17"		4.7	79° 50'	+40.4	+35.7			TP	-205	+94	922,608	1,631,830
TP	229		(155° 27' 14")		5.0	79° 45'	+40.7	+35.7		4401.3	TP		-1		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-17-84		B. Cotcamp		R. Thowarioge		6834		R.T.		2	45				
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER						
OREGON		3 SISTERS - 15'		ORE.	LANE				L.O. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (graves)												
TP82			0 00 00							4401.3					
TP83	0				5.05	M.		+5.0	4406.3		π	0	0	922.608	1,634.830
370	87		187° 50' (163° 12')		5.7	86°	+6.1	+0.4		4406.7		-83	+25	922.525	1,634.855
TP84	312	311.2	169° 59' 33"		6.8	86°	+21.8	+15.0		4421.3	TP	-256	+177	922.352	1,635.006
TP84	312		(145° 26' 47")		6.7	274°	+21.8	+15.1			TP		-1		
TP83			0 00 00												
TP84	0				+4.95	M.		+4.9	4426.2		π	0	0	922.352	1,635.006
371	91		142° 37' (108° 04')		4.7	86° 27'	+5.6	+0.9		4427.1		-28	+87	922.324	1,635.093
TP85	129		135° 45' 43"		4.3	86° 30'	+7.9	+3.6		4429.8	TP	-25	+126	922.327	1,635.131
TP85	129		(101° 12' 30")		4.3	273° 30'	+7.9	+3.6			TP		-1		
TP84			0 00 00												
TP85	0				+4.9	M.		+4.9	4434.7		π	0	0	922.327	1,635.131
372	284		146° 25' (67° 38')		6.7	86° 20'	+18.2	+11.5		4446.2		+108	+263	922.435	1,635.394
TP86	436	435.1	145° 48' 05"		7.6	86° 20'	+27.9	+20.3		4455.0	TP	+170	+401	922.497	1,635.531
TP86	436		(67° 00' 35")		7.5	273° 40'	+27.9	+20.4			TP		-1		
TP85			0 00 00												
TP86	0				+5.1	M.		+5.1	4460.1		π	0	0	922.497	1,635.531
373	176		210° 35' 16"		6.0	85° 30'	+13.8	+7.8		4467.9	TP	-23	+174	922.474	1,635.704
373	176		(97° 35' 51")		6.0	274° 30'	+13.8	+7.8			TP		-1		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED		LINE NO.		PAGE		
6-17-84		B. Cotcamp		R. TROWBRIDGE		6834		R.T.		2		46		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PARTY MANAGER		
OREGON (CASCADPS)		3 SISTERS - 15		OREGON		LANE						L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
TP86			0° 00' 00"							4467.9				
373	0				+5.0	Hi		+5.0	4472.9		X	0	0	922,474 1,635,704
374	321		166° 33' 18"		4.1	86° 50'	+17.7	+13.6		4486.5	TP	+33	+319	922,507 1,636,022
374	321		(84° 09' 09")		4.0	273° 10'	+17.7	+13.7			TP			
373			0 00 00											
374	0				+4.85	Hi		+4.8	4491.3		X	0	0	922,507 1,636,022
TP87	164		205° 44' 09"		4.3	85° 40'	+12.4	+8.1		4499.4	TP	-56	+154	922,451 1,636,175
TP87	164		(109° 53' 18")		4.3	274° 20'	+12.4	+8.1			TP			
374			0 00 00											
TP87	0				+5.05	Hi		+5.0	4504.4		X	0	0	922,451 1,636,175
375	149		149° 45' (79° 38')		7.7	85° 40'	+11.3	+3.6		4508.0		+27	+147	922,478 1,636,322
BM	32		79° 59' 39" (57")		4.0	85° 40'	+2.4	-1.6		4502.8		+32	+5	922,483 1,636,180 ¹⁹²⁶ U.S.G.S. 6m 19
TP88	511	501.6	149° 19' 31"		3.9	79° -	+97.5	+93.6		4598.0	TP	+94	+493	922,545 1,636,667
TP88	511		(79° 12' 49")		3.8	281° -	+97.5	+93.7			TP			
TP87			0 00 00											
TP88	0				+4.65	Hi		+4.6	4602.6		X	0	0	922,545 1,636,667
376	50		318° 55' (218° 08')		4.5	103° 36'	-11.8	-16.3		4586.3		-39	-31	922,506 1,636,636
TP89	73		232° 24' 40"		6.6	92° 30'	-3.2	-9.8		4592.8	TP	-48	+55	922,497 1,636,721
TP89	73		(131° 37' 29")		6.5	267° 30'	-3.2	-9.7			TP			

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-17-84		B. Cotcamp		R. Trowbridge		6834		R.T.		2	47				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREGON		3 SISTERS - 15'		ORE.	LANE					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (92.05)												
TP ₈₈			0 00 00							4592.8					
TP ₈₉	0				+4.95	H _i		+4.9	4597.7		π	0	0	922,497	1,636,721
377	241		115° 50' (67° 27')		4.5	85°	+21.0	+16.5		4614.2		+92	+223	922,589	1,636,944
TP ₉₀	331	327.8	114° 50' 58"		5.2	82° 04'	+45.7	+40.5		4638.2	TP	+131	+301	922,628	1,637,021
TP ₉₀	331		(66° 28' 27")		5.1	277° 56'	+45.7	+40.6			TP		-1		
TP ₈₉			0 00 00												
TP ₉₀	0				+4.7	H _i		+4.7	4642.9		π	0	0	922,628	1,637,021
TP ₉₁	82	-78.4	195° 26' 02"		3.3	73°	+24.0	+20.7		4663.6	TP	+11	+78	922,639	1,637,078
TP ₉₁	82		(81° 54' 29")		3.2	287°	+24.0	+20.8			TP		-1		
TP ₉₀			0 00 00												
TP ₉₁	0				+4.8	H _i		+4.8	4668.4		π	0	0	922,639	1,637,098
398	166		138° 24' (40° 18')		7.1	86° 20'	+10.6	+3.5		4671.9		+127	+107	922,766	1,637,205
TP ₉₂	333	332.4	135° 51' 30"		5.3	86° 40'	+19.4	+14.1		4682.5	TP	+263	+204	922,902	1,637,301
TP ₉₂	333		(37° 45' 59")		5.3	273° 20'	+19.4	+14.1			TP		-1		
TP ₉₁			0 00 00												
TP ₉₂	0				+5.15	H _i		+5.1	4687.6		π	0	0	922,902	1,637,301
379	154		144 40' 1"		4.7	81° 20'	+7.2	+2.5		4690.1	TP	+154	+6	923,056	1,637,306
379	154		144° (26° 09' 57")		4.6	272° 40'	+7.2	+2.6			TP		-1		
TP ₉₂			0 00 00												
379	0				+5.1	H _i		+5.1	4695.2		π	0	0	923,056	1,637,306

BACK or LOG

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.17.84		B. Cotcamp		R. Trowbridge		6834		R.C.T.		2		48			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4695.2						
380	330		165° 20' (348° 30')		5.4	90° 30'	-2.9	-8.3		4686.9		+323	-66	923,379	1,637,240
381	660		" " (" ")		9.5	90° 30'	-5.8	-15.3		4679.9		+647	-132	923,703	1,637,174
TP ₉₃	848		165° 41' 02"		7.5	90° 30'	-7.4	-14.9		4680.3	TP	+829	-178	923,885	1,637,127
TP ₉₃	848		(347° 50' 59")		7.4	269° 30'	-7.4	-14.8			TP		-1		
379			0 00 00												
TP ₉₃	0				+5.05	u.		+5.0	4685.3		TP	0	0	923,885	1,637,127
382	148		214° 40' (22° 31')		6.5	88° 20'	+4.3	-2.2		4683.1		+137	+57	924,022	1,637,184
TP ₉₄	238		215° 41' 18"		5.5	88° 30'	+6.2	+0.7		4686.0	TP	+218	+95	924,103	1,637,221
TP ₉₄	238		(23° 32' 17")		5.5	271° 30'	+6.2	+0.7			TP		-1		
TP ₉₃			0 00 00												
TP ₉₄	0				+5.15	u.		+5.1	4691.1		TP	0	0	924,103	1,637,221
383	245		207° 40' (51° 12')		6.2	89° 40'	+1.4	-4.8		4686.3		+154	+191	924,257	1,637,412
384	575		" " (" ")		11.8	89° 50'	+1.7	-10.1		4681.0		+360	+448	924,463	1,637,669
385	905		" " (" ")		10.2	89° 50'	+2.6	-7.6		4683.5		+567	+705	924,670	1,637,926
386	1235		" " (" ")		8.2	89° 50'	+3.6	-4.6		4686.5		+774	+962	924,877	1,638,183
387	1565		" " (" ")		7.0	89° 50'	+4.6	-2.4		4688.7		+981	+1220	925,084	1,638,441
388	1895		" " (" ")		5.7	89° 50'	+5.6	-0.1		4691.0		+1187	+1477	925,290	1,638,698
389	2225		" " (" ")		4.5	89° 40'	+13.0	+8.5		4699.6		+1394	+1734	925,497	1,638,955
TP ₉₅	2259		207° 10' 44"		2.4	89° 40'	+13.2	+10.8		4702.0	TP	+1430	+1749	925,533	1,638,969
TP ₉₅	2259		(50° 43' 01")		8.7	270° 30'	+19.8	+11.0	+10.93		TP		-1		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-17-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2		49			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (98105)												
TP94			0 00 00							4702.0					
TP95	0				+5.15	41		+5.1	4707.1		π	0	0	925,533	1,638,969
390	269		120° 10' (350° 53')		5.2	86° 30'	+116.4	+11.2		4718.3		+266	-43	925,799	1,638,926
TP96	474	413.1	116° 31' 24"		5.4	86° 30'	+28.9	+23.5		4730.6	TP	+461	-104	925,994	1,638,864
TP96	474		(347° 14' 25")		5.3	273° 30'	+28.9	+23.6			TP		-1		
TP95			0 00 00												
TP90	0				+5.05	41		+5.0	4735.6		π	0	0	925,994	1,638,864
391	128		214° 20' (21° 34')		4.2	88° 30'	+3.4	-0.8		4734.8		+119	+47	926,113	1,638,911
392	457		210° 00' (17° 14')		5.6	89° 10'	+6.7	+1.1		4736.7		+436	+135	926,430	1,638,799
393	786		209° 40' 00"		7.3	89° 20'	+9.1	+1.8		4737.5	TP	+752	+229	926,746	1,639,092
393	786		(116° 54' 25")		7.0	270° 40'	+9.1	+2.1	+1.93		TP		-1		
TP96			0 00 00												
393	0				+5.1	41		+5.1	4742.6		π	0	0	926,746	1,639,092
394	330		186° 28' (23° 22')		5.8	-		-5.8		4736.8		+303	+131	927,049	1,639,223
395	660		- - (" ")		6.2	TH	+3.3	-2.9		4739.7		+606	+262	927,352	1,639,354
396	990		(22° 45' 14")		5.0	89° 30'	+8.7	+3.7		4746.3		+909	+393	927,655	1,639,485
IF	1155		185° 51' 17"		5.7	89° 30'	+10.1	+4.4		4747.0	IF	+1065	+447	927,811	1,639,539
397	1320		186° 07' (23° 01')		6.1	89° 30'	+11.6	+5.5		4748.1		+1215	+516	927,961	1,639,608
TP97	1508		185° 34' 16"		7.0	89° 30'	+13.2	+6.2		4748.9	TP	+1393	+577	928,139	1,639,669
TP97	1508		(22° 28' 41")		6.7	270° 30'	+13.2	+6.5	+6.33		TP				

5 - 927,850 x 1,639,580
IF 7 - Inter. Frog camp

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6.17.84		B. Cotcamp		R. Trowbridge		6834		B.C.		2	50					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREGON		3 SISTERS - 15'		OREGON		LANE					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS ↑ TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
			PLATES → (grids)													
393			0 00 00							4748.9						
TP ₉₇	0				+5.15	M _i		+5.1	4754.0		↑	0	0	928,139	1,639,669	corner
398	139		172° 00' (14° 29')		5.6	89° 40'	+0.8	-4.8		4749.2		+135	+35	928,274	1,639,704	
399	467		168° 00' (10° 29')		5.8	89° 40'	+2.7	-3.1		4750.9		+459	+85	928,598	1,639,754	
TP ₉₈	630		165° 28'		6.1	89° 40'	+3.7	-2.4		4751.6	TP	+624	+87	928,763	1,639,756	
TP ₉₈	630		(7° 56' 52")		6.0	270° 20'	+3.7	-2.3			TP					
TP ₉₇			0 00 00													
TP ₉₈	0				+5.15	M _i		+5.1	4756.7		↑	0	0	928,763	1,639,756	
400	164		169° 45' (357° 42')		5.8	89° 30'	+1.4	-4.4		4752.3		+164	-7	928,927	1,639,749	
401	493		165° 58' 44"		6.6	89° 30'	+4.3	-2.3		4754.4	TP	+490	-52	929,253	1,639,704	
401	493		(353° 55' 36")		6.5	270° 30'	+4.3	-2.2			TP					
TP ₉₈			0 00 00													
401	0				+5.2	M _i		+5.2	4759.6		↑	0	0	929,253	1,639,704	corner
402	330		172° 09' (346° 05')		5.3	89° 50'	+1.0	-4.3		4755.3		+320	-79	929,573	1,639,625	
403	660		- - (- -)		4.2	89° 50'	+1.9	-2.3		4757.3		+641	-159	929,894	1,639,545	
404	990		- - (- -)		6.8	89° 50'	+2.9	-3.9		4755.7		+961	-238	930,214	1,639,466	
405	1320		- - (- -)		6.2	89° 50'	+3.9	-2.3		4757.3		+1281	-317	930,534	1,639,387	
406	1649		172° 40' (346° 36')		5.3	89° 50'	+4.9	-0.4		4759.2		+1604	-382	930,857	1,639,322	
#1	1605		172° 16' 28"		5.3	89° 50'	+4.7	-0.6		4759.2	TP	+1559	-383	930,812	1,639,321	new 90°
#1	1605		(346° 12' 04")	545° 56' 56"	5.0	270° 10'	+4.7	-0.3	-0.43		TP					(345° 56' 56") AZIM.

$y = 930,840$ $x = 1,639,290$
 F.T. intersect.
 (345° 56' 56") AZIM.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.18.84		B. Cotcamp		R. TROWBRIDGE		6834		B.C.		2		51			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
401			345° 56' 56"							4759.2					
41	0		0° 00' 00"		+5.1	Hi		+5.1	4764.3		TP	0	0	930,812	1,639,321
407	371		186° 54' (352° 51')		7.4	89° -	+6.5	-0.9	4763.4			+368	-46	931,180	1,639,275
408	701		" " (" ")		6.1	88° 10'	+22.4	+16.3	4780.6			+696	-87	931,508	1,639,234
409	1031		" " (" ")		6.2	88° -	+36.0	+29.8	4794.1			+1023	-128	931,835	1,639,193
410	1360		186° 47' 57"		5.7	88° 10'	+43.5	+37.8	4802.1		TP	+1348	-172	932,160	1,639,149
410	1360		(352° 44' 53")		5.8	271° 50'	+43.5	+37.7			TP				
41			0° 00' 00"												
410	0				+5.15	Hi		+5.1	4807.2		TP	0	0	932,160	1,639,149
411	330		186° 04' (352° 49')		4.4	89° 50'	+1.0	-3.4	4803.8			+327	-41	932,487	1,639,108
412	660		" " (" ")		12.5	89° 50'	+1.9	-10.6	4796.6			+655	-83	932,815	1,639,066
413	990		" " (" ")		10.4	90° 20'	-5.7	-16.1	4791.1			+982	-124	933,142	1,639,025
414	1320		" " (" ")		8.5	90° 20'	-7.6	-16.1	4791.1			+1310	-165	933,470	1,638,984
415	1650		" " (" ")		9.1	90° 10'	-4.7	-13.8	4793.4			+1637	-206	933,797	1,638,943
TP	1716		180° 15' 02"		8.3	90° 10'	-4.9	-13.2	4794.0		TP	+1703	-209	933,863	1,638,940
TP	1716		(352° 59' 55")		8.2	269° 50'	-4.9	-13.1			TP				
410			0° 00' 00"												
TP	0				+5.25	Hi		+5.2	4799.2		TP	0	0	933,863	1,638,940
TP	192		217° 13' 13"		4.7	90° -	-4.7		4794.5		TP	+166	+97	934,029	1,639,037
TP	192		(30° 13' 08")		4.6	270° -	-4.6				TP				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6-18-84		B. Cotcamp		R. Trowbridge		6834		B.C.		2	52						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 sisters -15'		ORE.	LANE.					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
			PLATES → (9.8105)														
TP ₁			0 00 00						4794.5								
TP ₂	0				+ 5.2	M.		+5.2	4799.7		✓	0	0	934,029	1,639,037		
416	85		220° 40' (70° 53')		6.0	89° 20'	+ 1.0	-5.0	4794.7			+ 28	+ 80	934,057	1,639,117		
417	415		221° 50' (72° 03')		9.7	88° 20'	+ 12.1	+ 2.4	4802.1			+ 128	+ 395	934,157	1,639,432		
418	745		222° 20' (72° 33')		9.1	88° 20'	+ 21.7	+ 12.6	4812.3			+ 223	+ 711	934,252	1,639,748		
TP ₃	1020		221° 17' 04"		6.8	88° 30'	+ 26.7	+ 19.9	4819.6		TP	+ 323	+ 967	934,352	1,640,004		
TP ₃	1020		(71° 30' 12")		6.7	271° 30'	+ 26.7	+ 20.0			TP						
TP ₂			0 00 00														
TP ₃	0				+ 5.15	M.		+ 5.1	4824.7		✓	0	0	934,352	1,640,004		
419	51		176° 25' (67° 55')		5.8	89° -	+ 0.9	-4.9	4819.8			+ 19	+ 47	934,371	1,640,051		
420	379		172° 00' (63° 30')		5.7	90° 40'	-4.4	-10.1	4814.6			+ 169	+ 339	934,521	1,640,343		
TP ₄	419		170° 35' 46"		6.0	90° 40'	-4.9	-10.9	4813.8		TP	+ 196	+ 370	934,548	1,640,374	35"	
TP ₄	419		(62° 05' 58")		7.2	90° 30'	-3.7	-10.9			TP						
TP ₃			0 00 00														
TP ₄	0				+ 5.15	M.		+ 5.1	4818.9		✓	0	0	934,548	1,640,374		
421	286		150° 16' 05"		5.4	90° 30'	-2.5	-7.9	4811.0		TP	+ 242	+ 153	934,790	1,640,527		
421	286		(32° 22' 03")		6.3	90° 20'	-1.7	-8.0			TP						
TP ₄			0 00 00														
421	0				+ 5.05	M.		+ 5.0	4816.0		✓	0	0	934,790	1,640,527		
422	330		169° 40' (22° 02')		5.7	-		-5.7	4810.3			+ 306	+ 124	935,096	1,640,651		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.18.84		B. Cottramp		R. Trow Bridge		6834		C.J.		B.C.		Z 53			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4816.0						
423	660		169° 40' (22° 02')		7.2	-		-7.2		4808.8		+612	+248	935,402	1,640,775
424	990		" " (- ")		8.1	-		-8.1		4807.9		+918	+371	935,708	1,640,898
TP5	1076		169° 47' 53"		6.9	-		-6.9		4809.1	TP	+996	+406	935,786	1,640,933
TP5	1076		(21° 09' 56")		6.8	270°		-6.8			TP				
421			0 00 00												
TP3	0				+5.15	M1		+5.1		4814.2	TP	0	0	935,786	1,640,933
Bm	42		94° 20' 00" (296° 29' 56")		4.1	89° 20'	+0.5	-3.6		4810.6	Bm	+19	-38	935,805	1,640,895
425	245		197° 42' (139° 52')		5.7	88° 40'	+5.7	±0.0		4814.2		+188	+157	935,974	1,641,090
426	575		198° 32' (40° 42')		6.0	88° 40'	+13.4	+7.4		4821.6		+436	+375	936,222	1,641,308
427	905		198° 46' (40° 56')		4.8	88° 40'	+21.1	+16.3		4830.5		+684	+593	936,470	1,641,526
428	1235		" " (- ")		10.1	88°	+43.1	+33.0		4847.2		+933	+809	936,719	1,641,742
429	1562	1561.1	198° 08' 33"		7.3	88°	+54.6	+47.3		4861.6	TP	+1190	+1010	936,976	1,641,943
429	1562		" " (- ")		7.0	272°	+54.6	+47.6			TP				
TP3			0 00 00												
429	0				+5.05	M1		+5.0		4866.6	TP	0	0	936,976	1,641,943
TP6	269	268.5	152° 18' 08"		5.6	86° 36'	+16.4	+10.8		4877.4	TP	+262	+59	937,238	1,642,002
TP6	269		" " (- ")		5.0	273° 30'	+16.4	+10.8			TP				
429			0 00 00												
TP6	0				+5.15	M1		+5.1		4882.5	TP	0	0	937,238	1,642,002
430	55		163° 10' (355° 49')		4.8	87° 10'	+2.7	-2.1		4880.4		+55	-4	937,293	1,641,998

1,640,895 x - 1,640,895
 FOREST SERVICE Exp.
 Horiz. 3 - 281
 CORR. X - 20
 EL 91.48016

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.25.84		B. Cotcamp		R. Trow Bridge		6834		C.T.		B.C.		2 SS			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			Plates - 7 (92.00s)												
TP			0 00 00						4961.6						
434	0				+5.05	H _i		+5.0	4966.6		TP	0	0	938,029	1642,320
TP ₁	155		131° 43 31		2.4	88°	+5.4	+3.0	4969.6		TP	+117	+101	938,146	1642,421
TP ₁	155		(40° 42 30)		2.4	272°	+5.4	+3.0		TP					
434			0 00 00												
TP ₁	0				+5.1	H _i		+5.1	4974.7		TP	0	0	938,146	1642,421
435	168		138° 40 (38° 22)		5.9	88°	+5.9	-0.0	4974.7			+168	-2	938,314	1642,419
TP ₂	432	431.7	137° 25 10		2.7	87° 50	+16.3	+13.6	4988.3		TP	+431	-14	938,577	1642,407
TP ₂	432		(138° 5' 40)		2.7	271° 10	+16.3	+13.6		TP					
TP ₁			0 00 00												
TP ₂	0				+4.95	H _i		+4.9	4993.2		TP	0	0	938,577	1642,410
436	72		220° 50 (38° 58)		5.8	87°	+3.8	-2.0	4991.2			+56	+45	938,633	1642,452
437	400		224° 00 (42° 08)		4.8	86° 54	+21.6	+16.8	5010.0			+297	+268	938,874	1642,625
TP ₃	527	526.3	222° 24 00		3.4	87°	+27.6	+24.2	5017.4		TP	+400	+342	938,977	1642,749
TP ₃	527		(40° 31 40)		3.3	273°	+27.6	+24.2		TP					
TP ₂			0 00 00												
TP ₃	0				+5.1	H _i		+5.1	5022.5		TP	0	0	938,977	1642,749
438	199		153° 40 (14° 12)		4.8	87°	+10.4	+5.6	5028.1			+193	+49	939,170	1642,968
439	528		150° 50 (11° 22)		6.7	87°	+27.6	+20.9	5043.4			+518	+104	939,495	1642,853
Bm	685	684.1	150° 44 15		7.4	87°	+35.9	+28.5	5051.0		Bm	+671	+134	939,648	1642,863

939,600 x 1,642,925
om

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.25.84		B. Cotcamp		R. Trowbridge		6834		C.T.		B.C.		56			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15'		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATTS → (GRIDS)												
440	858		150° 25' (10° 57')		8.8	87°	+44.9	+36.1		5058.6		+842	+163	939,819	1642912
441	1186	1184.7	149° 33' 04"		8.6	87° 20'	+55.2	+46.6		5069.1	TP	+1166	+207	940,143	1642956 ACROSS STATION
441	1186		(10° 04' 44")		8.5	272° 40'	+55.2	+46.7			TP				
TP3			0 00 00												
441	0				+5.15	H.I.		+5.1		5074.2	TP	0	0	940,143	1642956
TP4	228		191° 44' 18"		3.5	92° 30'	-9.9	-13.4		5060.8	TP	+211	+85	940,354	1643041
TP4	228		(21° 49' 02")		3.5	267° 30'	-9.9	-13.4			TP				
441			0 00 00												
TP4	0				+5.15	H.I.		+5.1		5065.9	TP	0	0	940,354	1643041
442	108		209° 32' (51° 21')		9.0	91° 40'	-3.1	-12.1		5053.8		+67	+84	940,421	1643125
443	438		" " (" ")		8.3	91° 40'	-12.7	-21.0		5044.9		+274	+342	940,628	1643363
444	768		" " (" ")		7.3	91° 10'	-15.6	-22.9		5043.0		+480	+600	940,834	1643641
TP5	799		209° 32' 18"		6.9	91° 10'	-16.3	-23.2			TP	+499	+624	940,853	1643665
TP5	799		(51° 21' 20")		6.7	268° 50'	-16.3	-23.0	-23.1	5042.8	TP				
TP4			0 00 00												
TP5	0				+4.9	H.I.		+4.9		5047.7	TP	0	0	940,853	1643665
445	305		217° 55' (89° 17')		7.7	90° 40'	-3.5	-11.2		5036.5		+4	+305	940,859	1643970
446	633		215° 28' (86° 49')		6.3	90° 40'	-7.4	-13.7		5034.0		+35	+632	940,888	1644291
TP447	962		215° 55' (87° 16')		5.6	90° 30'	-8.4	-14.0		5033.7	TP	+46	+961	940,899	1644626
TP											TP				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6.25.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	57				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		3 SISTERS - 15		ORE.		LANE					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			PLATES → (9.8105)						5047.7						
TP ₆	929		215° 42' 38"		6.2	90° 30'	-8.1	-14.3			TP	+48	+928	940,901	1644,593
TP ₆	929		(87° 03' 58")		5.9	269° 30'	-8.1	-14.0	-14.1	5033.6	TP				
TP ₅			0 00 00												
TP ₆	0				+5.2	M.		+5.2	5038.8		TP	0	0	940,901	1644,593
448	361		189° 55' 28"		5.7	-		-5.7			TP	-44	+358	940,857	1644,951
448	361		(96° 59' 26")		5.6	270° -		-5.6		5033.2	TP				
TP ₆			0 00 00												
448	0				+5.15	M.		+5.1	5038.3		TP	0	0	940,857	1644,951
449	325		160° 12' 58"		5.1	-		-5.1		5033.2	TP	+72	+317	940,929	1645,268
449	325		(77° 12' 24")		5.0	270° -		-5.0			TP				
448			0 00 00												
449	0				+5.1	M.		+5.1	5038.3		TP	0	0	940,929	1645,268
450	329		164° 20' (61° 32')		6.2	-		-6.2		5032.1		+157	+289	941,086	1645,557
451	658		162° 43' (59° 55')		5.8	-		-5.8		5032.5		+330	+569	941,259	1645,837
452	988		162° 11' (59° 23')		4.0	-		-4.0		5034.3		+503	+850	941,432	1646,118
453	1318		161° 57' (59° 09')		9.1	89° 40'	+7.7	-1.4		5036.9		+676	+1132	941,605	1646,400
454	1647		161° 44' (58° 56')		7.1	TH	+8.1	+1.0		5039.3		+850	+1411	941,779	1646,679
455	1977		161° 42' (58° 54')		8.0	TH	+9.8	+1.8		5040.1		+1021	+1693	941,950	1646,961
456	2307		161° 35' (58° 41')		7.8	TH	+11.4	+3.6		5041.9		+1196	+1973	942,125	1647,241
457	2637		" " (")		10.9	TH	+13.1	+2.2		5040.5		+1367	+2255	942,296	1647,523

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.25.84		B. Cotcamp		R. Trowbridge		6834		C. Y. B. C.		2		58			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 SISTERS - 15		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES - 7 (9R, 0S)						5038.3						
458	2967		161° 32' (58° 44')		11.0	89° 46'	+12.3	+1.3		5039.6		+1540	+2536	942,469	1647,804
459	3296		161° 30' (58° 42')		11.8	89° 46'	+13.6	+1.8		5040.1		+1712	+2816	942,641	1648,084
TP ₇	3491		161° 20' 41"		9.7	89° 40'	+20.6	+10.9			TP	+1821	+2978	942,750	1648,246
TP ₇	3491		(58° 33' 05")		9.4	270° 20'	+20.6	+11.2	+11.13	5049.4	TP				
449			0 00 00												
TP ₇	0				+5.0	Mi		+5.0	5054.4		T	0	0	942,750	1648,246
460	131		147° 50'		6.9	85° 40'	+9.9	+3.0			TP	+117	+58	942,867	1648,304
460	131		147° 44' 40" (260° 17' 48")		4.7	86° 40'	+7.6	+2.9x		5057.3	TP				
TP ₇			0 00 00												
460	0				+5.0	Mi		+5.0	5062.3		T	0	0	942,867	1648,304
461	327		140° 42' (346° 59')		6.3	87° 20'	+15.2	+8.9		5071.2		+319	-74	943,186	1648,230
TP ₈	532	531.5	140° 59' 52"		5.2	87° 30'	+23.2	+18.0x		5080.3	TP	+518	-117	943,385	1648,187
TP ₈	532		(347° 17' 37")		5.1	272° 30'	+23.2	+18.1			TP				
460			0 00 00												
TP ₈	0				+4.7	Mi		+4.7	5085.0		T	0	0	943,385	1648,187
462	145		244° 26' (51° 44')		5.6	87° -	+7.6	+2.0		5087.0		+90	+114	943,475	1648,301
TP ₉	314	313.6	246° 34' 26"		3.6	87° -	+16.4	+12.8x		5097.8	TP	+185	+253	943,570	1648,440
TP ₉	314		(53° 52' 03")		3.6	273° -	+16.4	+12.8			TP				
TP ₈			0 00 00												
TP ₉	0				+5.15	Mi		+5.1	5102.9		T	0	0	943,570	1648,440

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6.27.84		B. Cteamp		R. Trowbridge		6834		R.T. C.T.		2	59						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 Sisters - 15		OREGON	LANE					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
			Plates → (9 rios)														
463	162		191° 00' (64° 52')		5.6	87° -	+8.5	+2.9		5105.8		+69	+147	943.639	11648587		
TP ₁₀	455		189° 07' 33"		5.7	87° 40'	+18.5	+12.8		5115.7	TP	+206	+405	943.776	11648845		
TP ₁₆	455		(62° 59' 36")		5.6	272° 20'	+18.5	+12.9			TP						
TP ₉			0° 00' 00"														
TP ₁₀	0				+5.1	M.		+5.1	5120.8		TP	0	0	943.776	11648845		
464	36		202° 35' (85° 35')		5.9	88° -	+1.3	-4.6		5116.2		+3	+36	943.779	11648881		
TP ₁₁	365		207° 00' (89° 00')		5.3	TM	+1.8	-3.5		5117.3		±0	+365	943.776	11649210		
TP ₁₁	458		203° 15' 18"		2.6	-		-2.6		5118.2	TP	+30	+457	943.806	11649302		
TP ₁₁	458		(86° 14' 54")		2.6	270° -		-2.6			TP						
TP ₁₀			0° 00' 00"														
TP ₁₁	0				+5.0	M.		+5.0	5123.2		TP	0	0	943.806	11649302		
466	214		121° 30' (27° 45')		4.3	89° -	+3.7	-0.6		5122.6		+189	+100	943.995	11649402		
TP ₁₂	390		118° 33' 40"		1.3	89° -	+6.8	+5.5		5128.7	TP	+354	+164	944.160	11649466		
TP ₁₂	390		(24° 48' 34")		0.9	89° 04'	+6.4	+5.5			TP						
TP ₁₁			0° 00' 00"														
TP ₁₂	0				+4.7	M.		+4.7	5133.4		TP	0	0	944.160	11649466		
467	172		235° 40' (80° 29')		8.6	93° -	-9.0	-17.6		5115.8		+28	+170	944.188	11649636	3 Sisters - 15' ↑	
468	502		235° 00' (79° 49')		6.8	91° 30'	-13.1	-19.9		5113.5		+89	+494	944.249	11649760	3 Fingers 'Stack' ↓	
TP ₁₃	716		235° 50' 16"		2.2	91° -	-12.5	-14.7			TP	+116	+706	944.276	11650172	15.	
TP ₁₃	716		(80° 38' 50")		2.1	209° -	-12.5	-14.6		5118.8	TP						

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.21.84		B. Catcamp		R. Trowbridge		6834		R.T. C.T.		2		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Fingers JACK-15		OREGON		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates 7(92.05)												
TP ₁₂			0 00 00												
TP ₁₃	0				+4.75	M.		+1.8	5123.6		T	0	0	944.276	1150172
469	124		225° 25' (126° 04')		5.9	87° -	+6.5	+0.6		5124.2		-73	+100	944.203	1150272
470	454		228° 40' (129° 19')		5.5	87° 24'	+20.6	+15.1		5138.7		-288	+351	943.988	1150523
TP ₁₄	553	552.5	227° 25' 23"		5.5	87° 30'	+24.1	+18.6		5142.2	TP	-341	+435	943.935	1150607
TP ₁₄	553		(128° 04' 13")		5.4	272° 30'	+24.1	+18.7			TP				
TP ₁₃			0 00 00												
TP ₁₄	0				+5.0	M.		+5.0	5147.2		T	0	0	943.935	1150607
471	0		142° 00'												
471	221		142° 03' 38"		2.7	89° -	+3.9	+1.2		5148.4	TP	-1	+221	943.934	1150828
471	221		(90° 07' 51")		2.7	271° -	+3.9	+1.2			TP				
TP ₁₄			0 00 00												
471	0				+5.15	M.		+5.2	5153.6		T	0	0	943.934	1150828
472	326		160° 00' (70° 08')		9.3	87° -	+17.1	+7.8		5161.4		+111	+307	944.045	1151135
473	656	655.3	158° 19' 28"		5.7	87° 20'	+30.5	+24.8		5178.4	TP	+241	+610	944.175	1151438
473	656		(68° 27' 19")		5.6	272° 40'	+30.5	+24.9			TP				
471			0 00 00												
473	0				+5.05	M.		+5.0	5183.4		T	0	0	944.175	1151438
474	330		177° 20' (65° 49')		6.0	89° 40'	+1.9	-4.1		5179.3		+135	+301	944.310	1151739
475	659		175° 35' (64° 02')		8.6	89° 40'	+3.8	-4.8		5178.6		+289	+592	944.464	1152030

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-84		B. Cotcamp		R. Trowbridge		6834		CT		B.C.		61			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Fingers Jack-Is		ORE.		LANE								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (gr. cos.)						5183.4						
476	988		173° 45' (62° 12')		10.2	89° 10'	+14.4	+4.2		5187.6		+461	+874	944,636	1152312
Bm	1142		(62° 13' 48") 173° 40' 24"		7.0	89° 10'	+16.6	+9.6		5193.0	Bm	+532	+1010	944,707	1152448 ^{Bm}
477	1317		172° 18' (60° 45')		6.0	89° 06'	+20.7	+14.7		5198.1		+644	+1149	944,819	1152557
478	1644		171° 16' 14"		6.4	88° 50'	+33.5	+27.1			TP	+829	+1420	945,004	1152858
478	1644		(59° 43' 33")		6.1	271° 10'	+33.5	+27.4	+273	5210.7	TP				
473			0° 00' 00"												
478	0				+5.2	Mi		+5.2	5215.4		TP	0	0	945,004	1152858
479	330		176° 16' (55° 54')		9.0	88° 40'	+7.7	-1.3		5214.6		+185	+273	945,189	1153131
480	660		" " (")		10.8	89° -	+11.5	+0.7		5216.6		+370	+547	945,374	1153405
481	990		" " (")		4.4	89° -	+17.3	+12.9		5228.8		+555	+820	945,559	1153678
482	1320		" " (")		5.2	88° 30'	+34.6	+29.4		5245.3		+740	+1093	945,744	1153951
483	1649	1148.4	176° 05' 34"		5.1	88° 30'	+43.2	+38.1		5254.2	TP	+926	+1364	945,930	1154222
483	1649		(55° 49' 07")		4.8	271° 30'	+43.2	+38.4	+383		TP				
478			0° 00' 00"												
483	0				+5.15	Mi		+5.2	5259.4		TP	0	0	945,930	1154222
484	330		180° 15' (56° 04')		6.2	89° 40'	-9.6	-15.8		5243.6		+184	+274	946,114	1154496
485	660		" " (")		6.0	89° 40'	+3.8	-2.2		5257.2		+368	+548	946,298	1154770
486	990		" " (")		5.6	89° 20'	+11.5	+5.9		5265.3		+553	+821	946,483	1155043
487	1320		" " (")		9.7	89° 30'	+11.6	+1.9		5261.3		+737	+1095	946,667	1155317

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-27-84		B. Ctcamp		R. Trowbridge		6834		R.T. C.T.		2	62				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		3 Fingero Jack-15		OREGON		LANE					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (92.05)												
486	989		180° 17' 27"		2.5	89° 36'	+8.7	+6.2			TP	+551	+821	946.481	11655043
486	989		(56° 06' 34")		2.4	270° 30'	+8.7	+6.3		5265.7	TP				
483			0 00 00												
486	0				+5.1	M.		+5.1	5270.8		TP	0	0	946.481	11655043
487	330		179° 51' (55° 58')		3.2	91° -	-58	-9.0		5261.8		+185	+273	946.666	11655316
Bm	580		(55° 20' 55") 177° 04' 21"		13.4	89° 44'	+2.7	-10.7		5260.1	Bm	+348	+464	946.829	11655507 y - 946.810 x = 11655.495 450.4 Bm EL 5260.0
488	660		179° 51' (55° 58')		7.3	90° 20'	-3.8	-11.1		5259.7		+369	+547	946.850	11655590 amine tree
489	990		179° 45' 12"		5.1	90° 30'	-8.6	-13.7		5257.2	TP	+556	+819	947.037	11655862
489	990		(55° 51' 46")		4.9	269° 30'	-8.6	-13.5			TP				
486			0 00 00												
489	0				+5.2	M.		+5.2	5262.4		TP	0	0	947.037	11655862
490	330		180° 21' (56° 13')		9.2	92° 40'	-15.4	-24.6		5237.8		+184	+274	947.221	11656136 LANE County ↑
491	660		- - (- -)		11.0	92° 40'	-30.7	-41.7		5226.7		+367	+549	947.404	11656411 Linn County ↓
492	990		- - (- -)		10.2	92° 10'	-37.4	-47.6		5214.8		+550	+823	947.587	11656685
493	1320		(55° 20' 55")		10.5	91° 50'	-42.2	-52.7		5209.7		+734	+1097	947.771	11656959
TP	1557		(55° 20' 55") 180° 06' 40"		10.0	91° 40'	-45.2	-55.2		5207.2		+870	+1290	947.907	11657152 - 947.920 x = 11657.200 TRAIL NORTH
494	1652	1651.4	180° 14' 34"		9.5	91° 30'	-43.2	-52.7			TP	+921	+1371	947.958	11657233 ACROSS STA.
494	1652		(56° 06' 30")		9.2	268° 30'	-43.2	-52.4		5209.9	TP				
489			0 00 00												
494	0				+4.9	M.		+4.9	5214.8		TP	0	0	947.958	11657233

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.27.84		B. Cotcamp		R. Trowbridge		6834		R.T. C.T.		2		63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Fingers Jack-15'		OREG.		Linn								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			PLATES 7 (91:05)												
495	323		242° 36' (118° 36')		5.2	87°	+16.9	+11.7		5226.5		-155	+284	947,803	1657517
496	476		210° 48' (86° 54')		6.3	86°	+33.2	+26.9		5241.7		+26	+475	947,984	1657708 Linn county T
TP ₁₅	453	451.7	208° 07' 34"		6.4	85° 40'	+34.2	+27.8			TP	+45	+449	948,003	1657682 DESCHUTES Co. T
TP ₁₅	453		(84° 13' 54")		6.3	274° 20'	+34.2	+27.9		5242.7	TP				
494			0 00 00												
TP ₁₅	0				+4.95	M.		+4.9		5247.6	T	0	0	948,003	1657682
TP ₁₆	83		174° 18' 56"		2.7	-		-2.7		5244.9	TP	+16	+81	948,019	1657763
TP ₁₆	83		(78° 32' 50")		2.7	270°		-2.7			TP				
TP ₁₅			0 00 00												
TP ₁₆	0				+4.95	M.		+4.9		5249.8	T	0	0	948,019	1657763
497	264		206° 26' (104° 59')		4.4	86° 40'	+15.4	+11.0		5260.8		-68	+255	947,951	1658018
498	594	593.1	206° 46' 12"		6.9	86° 50'	+32.8	+25.9		5275.7	TP	-157	+572	947,862	1658335
498	594		(105° 19' 02")		6.8	273° 10'	+32.8	+26.0			TP				
TP ₁₆			0 00 00												
498	0				+5.05	M.		+5.0		5280.7	T	0	0	947,862	1658335
499	303		160° 10' (85° 29')		8.2	86°	+21.1	+12.9		5293.6		+24	+302	947,886	1658637
500	594		142° 15' (67° 34')		4.2	86° 30'	+36.3	+32.1		5312.8		+227	+549	948,089	1658864
TP ₁₃	729	727.5	142° 23' 58"		7.7	86° 20'	+46.6	+38.9		5319.6	TP	+276	+673	948,138	1659008
TP ₁₃	729		(67° 43' 00")		7.6	273° 40'	+46.6	+39.0			TP				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-84		B. Cotcamp		R. Trowbridge		6834		R.T. CT.		2		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Fingered Jack-15		OREGON		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (GRIDS)												
TP ₁₆			0° 00' 00"												
TP ₁₇	0		(99° 21' 25")		+4.95	Hi		+50	5324.6		π	0	0	948,138	1,659,008
Bm	169		207° 44' 25"		1.8	89° 30'	+1.5	-0.3		5324.3	Bm	-16	+168	948,122	1,659,176
501	209		227° 10' (114° 58')		5.2	88° 50'	+4.3	-0.9		5323.7		-88	+190	948,050	1,659,198
TP ₁₈	423		224° 14' 13"		5.6	89° 20'	+4.9	-0.7		5323.9	TP	-158	+392	947,980	1,659,400
TP ₁₈	423		(111° 57' 13")		4.4	89° 30'	+3.7	-0.7			TP				
TP ₁₁			0° 00' 00"												
TP ₁₈	0				+5.2	Hi		+5.2	5329.1		π	0	0	947,980	1,659,400
502	98		167° 20' (99° 17')		5.2	91° -	-1.7	-6.9		5322.2		-16	+97	947,964	1,659,497
503	428		164° 45' (96° 42')		7.7	91° 40'	-12.4	-20.1		5309.0		-50	+425	947,930	1,659,825
TP ₁₉	704		165° 24' 54"		6.7	92° -	-24.6	-31.3	(31.2)	5297.9	TP	-90	+698	947,890	1,660,098
TP ₁₉	704		(97° 22' 07")		6.5	263° -	-24.6	-31.1			TP				
TP ₁₈			0° 00' 00"												
TP ₁₈	0				+5.25	Hi		+5.2		5303.1	π	0	0	947,890	1,660,098
504	59		217° 08' (134° 30')		4.8	93° -	-31	-7.9		5295.2		-41	+42	947,849	1,660,140
TP ₂₀	326		220° 52' 40"		0.6	93° -	-17.1	-17.7		5285.4	TP	-243	+217	947,647	1,660,315
TP ₂₀	326		(138° 14' 47")		0.5	267° -	-17.1	-17.6			TP				
TP ₁₉			0° 00' 00"												
TP ₂₀	0				+5.15	Hi		+5.1	5290.5		π	0	0	947,647	1,660,315
505	44		145° 35' (103° 50')		4.8	92° 50'	-2.2	-7.0		5283.5		-11	+43	947,636	1,660,358

*-948,135 x -1,659,125
U.S.O.A. Bm EL 5324.3

SUNSHOT.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6-27-84		B. Cotcamp		R. TRUMBIDGE		6834		R.T. C.T.		2	65						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
OREGON		3 Fingers JACK-IS		OREGON	DESSCHUTES				L.O. Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
			PLATES → (92.05)														
TP ₂₁	125		130° 56' 29"		5.0	92° 50'	-6.2	-11.2		5279.3	TP	+2	+125	947.649	1660440		
TP ₂₁	125		(89° 11' 16")		4.6	93°	-6.5	-11.1			TP						
TP ₂₀			0 00 00														
TP ₂₁	0				+5.25	H _i		+5.2	5284.5		TP	0	0	947.649	1660440		
TP ₂₂	58		130° 31' 14"		4.5	93°	-3.0	-7.5		5277.0	TP	+45	+37	947.694	1660477		
TP ₂₂	58		(39° 42' 30")		4.4	93° 10'	-3.2	-7.6			TP						
TP ₂₁			0 00 00														
TP ₂₂	0				+5.35	H _i		53	5282.3		TP	0	0	947.694	1660477	corr	
506	134		135° 35' (355' 17")		5.1	93°	-7.0	-12.1		5270.2	TP	+134	-11	947.828	1660466		
TP ₂₃	240		135° 46' 20"		4.6	93°	-12.6	-17.2		5265.1	TP	+239	-19	947.933	1660458		
TP ₂₃	240		(355° 28' 50")		3.9	93° 10'	-13.3	-17.2			TP						
TP ₂₂			0 00 00														
TP ₂₃	0				+5.3	H _i		+5.3	5270.4		TP	0	0	947.933	1660458		
TP ₂₄	76		246° 22' 18"		5.4	94° 30'	-6.0	-11.4		5259.0	TP	+36	+67	947.969	1660525		
TP ₂₄	76		(61° 51' 08")		5.2	94° 46'	-6.2	-11.4			TP						
TP ₂₃			0 00 00														
TP ₂₄	0				+5.15	H _i		+5.1	5264.1		TP	0	0	947.969	1660525		
507	208		208° 25' (90° 16')		5.8	93°	-10.9	-16.7		5247.4		-1	+208	947.968	1660733		
TP ₂₅	269		204° 44' 54"		6.9	93°	-14.1	-21.0		5243.1	TP	+16	+268	947.985	1660793		
TP ₂₅	269		(86° 36' 02")		6.9	261°	-14.1	-21.0			TP						

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6.28.84		B. Cotcamp		R. Trowbridge		6834		R.T. C.T.		2	66				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREGON		3 Fingered Jack-18		ORE.	DESCUTES					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP24			0 00 00												
TP25	0				+5.2	H.I.		+5.2	5248.3		TP	0	0	947.985	1661793
508	255		153° 53' (60' 29")		4.7	93° 50'	-17.0	-21.7		5226.6		+126	+222	948.111	1661015
TP26	397	396.3	156° 24' 47"		4.9	93° 30'	-24.2	-29.1		5219.2	TP	+180	+353	948.165	1661146
TP26	397		(63° 00' 49")		4.8	266° 30'	-24.2	-29.0			TP				
TP25			0 00 00												
TP26	0				+5.25	H.I.		+5.2	5224.4		TP	0	0	948.165	1661146
509	185		204° 12' (87° 13')		7.0	93°	-9.7	-16.7		5207.7		+9	+185	948.174	1661331
510	473	472.1	182° 31' 36"		4.1	93° 30'	-28.9	-33.0		5191.4	TP	+195	+430	948.360	1661576
510	473		(65° 32' 25")		4.0	266° 30'	-28.9	-32.9			TP				
TP26			0 00 00												
510	0				+5.2	H.I.		+5.2	5196.6		TP	0	0	948.360	1661576
511	330		146° 10' (31° 42')		8.1	90° 40'	-3.8	-11.9		5184.7		+281	+173	948.641	1661749
Bm	158		(53° 50' 05") 120° 17' 40"		3.6	92° 26'	-6.7	-10.3		5186.3	Bm	+157	H6	948.517	1661592
512	658		142° 12' (27° 44')		8.4	90° 10'	-1.9	-10.3		5186.3		+582	+306	948.942	1661882
TP27	871		142° 07' 34"		6.6	90° 20'	-5.1	-11.7		5184.9	TP	+771	+404	949.131	1661980
TP27	871		(27° 39' 59")		1.5	269° 20'	-10.1	-11.6			TP				
510			0 00 00												
TP27	0				+4.8	H.I.		+4.8	5189.7		TP	0	0	949.131	1661980
513	125		208° 00' (55° 40')		6.0	87° 30'	+5.5	-0.5		5189.2		+71	+103	949.202	1662083

5-948.565 X = 1661925
13 1926 U.S.D.A. EL. 5187.0

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-84		B. Catcomp		R. Trowbridge		6834		R.T. C.T.		2		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 Fingered Jack - 15		ORE.		DESMUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (9.105)												
514	455		204° 30' (52° 10')		3.5	88° 30'	+11.9	+8.4		5198.1		+219	+359	949,410	1662339
TP ₂₈	672		203° 31' 38"		8.7	88° 30'	+17.6	+89.8		5198.6	TP	+421	+523	949,552	1662503
TP ₂₈	672		(51° 11' 37")		8.6	271° 30'	+17.6	+9.0			TP				
TP ₂₁			0° 00' 00"												
TP ₂₈	0				+5.2	M.		+5.2 ^x	5203.8		TP	0	0	949,552	1662503
515	112		189° 25' (60° 37')		5.3	-		-5.3		5198.5		+55	+98	949,607	1662601
TP ₂₉	171		186° 53' 22"		5.7	-		-5.7 ^x		5198.1	TP	+90	+145	949,642	1662618
TP ₂₉	171		(58° 04' 59")		4.8	BH	-0.9	-5.7			TP				
TP ₂₈			0° 00' 00"												
TP ₂₉	0				+5.25	M.		+5.2 ^x	5203.3		TP	0	0	949,642	1662648
516	268		207° 40' (82° 45')		8.7	92° -	-9.4	-18.1		5185.2		+20	+267	949,662	1662915
TP ₃₀	353		202° 41' 20"		5.2	92° 30'	-15.4	-20.6 ^x		5182.7	TP	+57	+348	949,699	1662996
TP ₃₀	353		(80° 46' 19")		6.2	92° 20'	-14.4	-20.6			TP				
TP ₂₉			0° 00' 00"												
TP ₃₀	0				+5.2	M.		+5.2 ^x	5187.9		TP	0	0	949,699	1662996
517	237		141° 15' (42° 01')		5.3	91° -	-4.1	-9.4		5178.5		+176	+159	949,875	1663155
518	566		139° 17' 19"		5.1	92° -	-19.7	-24.8 ^x		5163.1	TP	+433	+364	950,132	1663360
518	566		(40° 03' 38")		5.0	268° -	-19.7	-24.7			TP				
TP ₃₀			0° 00' 00"												
518	0				+5.15	M.		+5.1	5168.2		TP	0	0	950,132	1663360

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6-28-84		B. Colcamp		R. Trowbridge		6834		R.T. C.T.		2	68						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 Fingero Jack-15'		OREG.	DESCHUTES					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
			PCATES → (9R.05)														
519	329		188° 05' (48° 09')		5.8	92° 40'	-15.3	-21.1		5147.1		+220	+245	950,352	1,663,605		
TP31	587	586.4	185° 57' 15"		4.4	92° 40'	-27.3	-31.7		5136.5	TP	+407	+422	950,539	1,663,782		
TP31	587		(46° 00' 53")		4.3	267° 20'	-27.3	-31.6			TP						
TP30			0 00 00														
TP31	0				+5.1	4i		+5.1*	5141.6		π	0	0	950,539	1,663,782		
520	54		154° 00' (20° 01')		5.6	88°	+1.9	-3.7		5137.9		+51	+18	950,590	1,663,800		
TP32	457	456.2	123° 22' 36"		6.8	89° 30'	+4.0	-2.8*		5138.8	TP	+448	-84	950,988	1,663,698		
TP32	457		(349° 23' 29")		6.7	270° 30'	+4.0	-2.7			TP	+1					
TP31			0 00 00														
TP32	0				+5.2	4i		+5.2*	5144.0		π	0	0	950,988	1,663,698		
521	92		345° 30' (154° 53')		4.8	90° 26'	-0.7	-5.5		5138.5		-83	+39	950,905	1,663,737		
TP33	186		274° 51' 50"		3.4	93° 26'	-11.1	-14.5*		5129.5	TP	+19	+185	951,008	1,663,883		
TP33	186		(84° 15' 19")		3.2	93° 30'	-11.4	-14.6			TP	+1					
TP32			0 00 00														
TP33	0				+5.25	4i		+5.3	5134.8		π	0	0	951,008	1,663,883		
522	138		215° 54' (120° 09')		4.8	92° 54'	-7.0	-11.8		5123.0		-69	+119	950,939	1,664,002		
TP34	271		198° 40' 50"		4.9	93° 20'	-15.8	-20.7*		5114.1	TP	-61	+264	950,948	1,664,147		
TP34	271		(102° 56' 09")		4.6	93° 24'	-16.1	-20.7			TP	+1					
TP33			0 00 00														
TP34	0				+5.05	4i		+5.1	5119.2		π	0	0	950,948	1,664,147		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6.28.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	69						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		3 FINGERED JACK-1'S		ORE.	DESCHUTES					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
			PLATES → (9.145)						5119.2								
523	160		121° 25' (44° 21')		4.7	92°	-5.6	-10.3		5108.9		+114	+112	951,062	1,664,259		
TP ₃₅	345		115° 52' 24"		6.3	92°	-12.0	-18.3		5101.0	TP	+269	+216	951,218	1,664,363		
TP ₃₅	345		(38° 48' 33")		6.2	268°	-12.0	-18.2			TP	+1					
TP ₃₄			0° 00' 00"														
TP ₃₅	0				+5.25	4i		+5.3	5106.3		TP	0	0	951,218	1,664,363		
524	143		199° 48' (58° 31')		5.7	91° 30'	-3.7	-9.4		5096.9		+74	+122	951,292	1,664,485		
TP ₃₆	321		196° 31' 08"		5.0	92° 30'	-14.0	-19.0		5087.4	TP	+182	+264	951,401	1,664,627		
TP ₃₆	321		(55° 19' 41")		4.9	267° 30'	-14.0	-18.9			TP	+1					
TP ₃₅			0° 00' 00"														
TP ₃₆	0				+5.25	4i		+5.3	5092.7		TP	0	0	951,401	1,664,627		
525	144		156° 45' (32° 05')		5.7	92° 40'	-6.7	-12.4		5080.3		+122	+76	951,523	1,664,703		
526	474		152° 20' (27° 40')		5.6	92° 20'	-19.3	-24.9		5067.8		+420	+220	951,821	1,664,847		
527	804		151° 30' (26° 50')		8.2	92° 30'	-35.1	-43.3		5049.4		+717	+363	952,118	1,664,990		
TP ₃₇	846	845.0	150° 03' 28"		4.6	92° 50'	-41.8	-46.4			TP	+763	+362	952,165	1,664,989		
TP ₃₇	846		(25° 23' 09")		6.9	267° 20'	-39.3	-46.2	-46.3	5046.4	TP	+1					
TP ₃₆			0° 00' 00"														
TP ₃₇	0				+5.2	4i		+5.2	5051.6		TP	0	0	952,165	1,664,989		
528	278		165° 00' (10° 23')		5.7	91° 20'	-6.5	-12.2		5039.4		+273	+50	952,438	1,665,039		
529	607		163° 20' (8° 43')		9.7	91° 20'	-14.1	-23.8		5027.8		+600	+92	952,765	1,665,081		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6.28.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	70				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PARTY MANAGER					
OREGON		3 Fingered Jack-15		ORE.		DESCHUTES				L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			plates → (GRIDS)						5051.6						
TP38	667		162° 13' 06"		7.1	91° 40'	-19.4	-26.5			TP	+661	+88	952827	1,665,077
TP38	667		(7° 36' 15")		7.0	268° 20'	-19.4	-26.4		5025.2	TP	"	"		
TP31			0 00 00												
TP38	0				+4.8	Hi		+4.8	5030.0		TP	0	0	952,827	1,665,077
530	289		233° 50' (61° 26')		8.8	91° -	-5.0	-13.8		5016.2		+138	+254	952,965	1,665,331
Bm	375		(53° 31' 17") 226° 03' 02"		5.4	92° -	-13.1	-18.5		5011.5	Bm	+222	+302	953,049	1,665,319
TP39	608		233° 29' 55"		6.0	90° 40'	-2.1	-13.1			TP	+294	+532	953,122	1,665,609
TP39	608		(61° 06' 10")		5.9	269° 20'	-7.1	-13.0		5017.0	TP	"	"		
TP38			0 00 00												
TP39	0				+4.8	Hi		+4.8	5021.8		TP	0	0	953,122	1,665,609
531	20		98° 40' (339° 46')		7.3	-	-7.3			5014.5		+19	-7	953,131	1,665,602
532	339		150° 41' (31° 47')		5.9	92° -	-11.8	-17.7		5004.1		+288	+179	953,410	1,665,788
533	658	657.5	141° 42' 06"		7.0	92° 20'	-26.8	-33.8			TP	+606	+255	953,729	1,665,864
533	658		(22° 48' 16")		6.9	267° 40'	-26.8	-33.7		4988.1	TP	"	"		
TP39			0 00 00												
533	0				+5.15	Hi		+5.2	4993.3		TP	0	0	953,729	1,665,864
534	329		189° 50' (32° 38')		6.3	92° -	-11.5	-17.8		4975.5		+277	+177	954,006	1,666,041
TP40	363		186° 57' 12"		3.6	92° 30'	-15.8	-19.4		4973.9	TP	+315	+180	954,015	1,666,044
TP40	363		(29° 45' 28")		4.7	92° 20'	-14.8	-19.5			TP	"	"		

y = 953,080 x - 1,665,360
L.S.O.A. Bm EL. 5012.0

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-28-84		B. Cotramp		R. Trowbridge		6834		C.T. B.C.		2	71				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		3 Fingersack-15		ORE.		DESCHUTES					L.O. Oguis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS + TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
533			0 00 00							4973.9					
TP40	0				+5.2	41		+5.2	4979.1		TP	0	0	954,045	1,666,044
535	293		164° 05' (13° 50')		5.3	93°	-15.3	-20.6		4958.5		+285	+70	954,330	1,666,114
TP41	411	410.4	166° 55' 07"		0.9	93°	-21.5	-22.4			TP	+393	+118	954,439	1,666,162
TP41	411		(16° 40' 35")		0.8	267°	-21.5	-22.3		4956.8	TP	+			
TP40			0 00 00												
TP41	0				+4.9	41		+4.9	4961.7		TP	0	0	954,439	1,666,162
TP42	210		247° 37' 12"		5.3	92°	-7.3	-12.6		4949.1	TP	+21	+209	954,461	1,666,371
TP42	210		(84° 17' 47")		9.0	91°	-3.7	-12.7			TP	+			
TP41			0 00 00												
TP42	0				+5.25	41		+5.3	4959.4		TP	0	0	954,461	1,666,371
536	28		230° 45' (135° 03')		7.0	-		-7.0		4945.4		-20	+20	954,441	1,666,391
537	354		" " (")		4.3	92° 30'	-15.4	-19.7		4934.7	TP	-251	+250	954,210	1,666,621
TP43	489		225° 42' 28"		3.9	92° 30'	-21.3	-25.2			TP	-314	+374	954,148	1,666,745
TP43	489		(138° 00', 15")		3.8	267° 30'	-21.3	-25.1		4929.3	TP	+			
TP42			0 00 00												
TP43	0				+5.1	41		+5.1	4934.4		TP	0	0	954,148	1,666,745
538	177		128° 40' (78° 40')		8.0	91° 30'	-4.6	-12.6		4921.8		+35	+174	954,183	1,666,919
539	494		131° 15' (81° 15')		4.5	91°	-8.6	-13.1		4921.3		+75	+488	954,223	1,667,233

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2		72			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		3 FINGERED JACK-15		ORE.		DESKUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			PLATES → (90°05')						4934.4						
TP44	571		128° 31' 18"		3.2	90° 40'	-6.6	-9.8	4924.6	TP	+114	+560	954,263	1,667,305	
TP44	571		(78° 31' 33")		4.9	90° 30'	-5.0	-9.9		TP	"				
TP43			0 00 00												
TP44	0				+5.05	41'		+5.0	4929.6	TP	0	0	954,263	1,667,305	
540	251		126° 18' (24° 50')		6.9	89° -	+4.4	-2.5	4927.1		+228	+105	954,491	1,667,410	
541	577		119° 41' 10"		1.8	-		-1.8	4927.9	TP	+548	+180	954,812	1,667,485	
541	577		(18° 12' 43")		1.7	270° -		-1.7		TP	"				
TP44			0 00 00												
541	0				+5.0	41'		+5.0	4932.9	TP	0	0	954,812	1,667,485	
542	330		168° 48' (7° 01')		6.3	-		-6.3	4926.6		+328	+410	955,140	1,667,525	
543	660		- " (- ")		10.0	BH	-3.3	-13.3	4919.6		+655	+81	955,467	1,667,566	
544	988		166° 50' (5° 03')		6.5	90° 40'	-11.5	-18.0	4914.9		+984	+87	955,796	1,667,572	
TP45	1148		167° 06' 52"		8.1	90° 40'	-13.3	-21.4	4911.6	TP	+1143	+107	955,956	1,667,592	
TP45	1148		(5° 19' 35")		7.9	269° 20'	-13.3	-21.2		TP	"				
541			0 00 00												
TP45	0				+4.9	41'		+4.9	4916.5	TP	0	0	955,956	1,667,592	
545	175		208° 05' (33° 25')		7.1	91° -	-3.1	-10.2	4906.3		+146	+96	956,102	1,667,688	
TP46	430		210° 42' 58"		4.6	91° -	-7.5	-12.1	4904.4	TP	+348	+253	956,305	1,667,845	
TP46	430		(36° 02' 33")		3.4	91° 10'	-8.8	-12.2		TP	"				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-28-84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	73				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		3 FINGERED JACK - 15		OREGON		DESCHUTES					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (92.05)												
TP45			0 00 00							4904.4					
TP46	0				+5.1	41		+5.1 ^x	4909.5		π	0	0	956,305	1,667,815
546	76		198° 16' (54' 19")		6.6	89° 30'	+0.7	-5.9		4903.6		+44	+62	956,349	1,667,907
547	404		193° 10' (47' 13")		7.9	90° 30'	-3.5	-11.4		4898.1		+264	+306	956,569	1,668,151
TP47	444		192° 21' 46"		3.9	91° 10'	-9.0	-12.9			TP	+295	+332	956,601	1,668,177
TP47	444		(48° 24' 19")		3.8	268° 50'	-9.0	-12.8 ^x		4896.7	TP		+1		
TP46			0 00 00												
TP47	0				+4.95	41		+5.0 ^x	4901.7		π	0	0	956,601	1,668,177
548	277		167° 50' 27"		6.1	90° 30'	-2.4	-8.5 ^x		4893.2	TP	+223	+164	956,825	1,668,341
548	277		(36° 14' 46")		5.3	90° 40'	-3.2	-8.5			TP		+1		
TP47			0 00 00												
548	0				+5.1	41		+5.1 ^x	4898.3		π	0	0	956,825	1,668,341
549	326		209° 22' 30"		4.8	91° -	-5.7	-10.5 ^x		4889.8	TP	+135	+297	956,961	1,668,638
549	326		(65° 31' 16")		3.9	91° 10'	-6.6	-10.5			TP		+1		
548			0 00 00												
549	0				+5.0	41		+5.0 ^x	4892.8		π	0	0	956,961	1,668,638
550	318		141° 08' (26' 45")		4.8	91° -	-5.5	-10.3		4882.5		+284	+143	957,245	1,668,781
551	646		142° 40' (23' 17")		5.8	90° 50'	-9.4	-15.2		4877.6		+569	+306	957,530	1,668,944
TP48	682		141° 06' 40"		6.3	90° 50'	-9.9	-16.2 ^x			TP	+609	+307	957,571	1,668,945
TP48	682		(26° 43' 56")		8.2	269° 20'	-7.9	-16.1 ^x		4896.7	TP		+1		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-28-84		B. Cotcamp		R. Trowbridge		6834		C.T.		2	74				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		3 Fingert Jack-15		ORE		DESCHUTES - 15					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES → (0, 0, 25)												
549			0° 00' 00"												
TP48	0				+5.0	11'		+5.0	4881.7		TP	0	0	957,571	1,668,945
TP49	244		172° 57' 48"		5.8	91° -	-4.3	-10.1		4871.6	TP	+230	+82	957,802	1,669,027
TP49	244		(19° 41' 44")		5.1	91° 10'	-5.0	-10.1			TP				
TP48			0° 00' 00"												
TP49	0				+5.05	4'		+5.1	4876.7		TP	0	0	957,802	1,669,027
552	419		214° 30' (51° 12')		6.8	89° -	+0.9	-5.9		4870.8		+29	+40	957,831	1,669,067
553	376		199° 50' (39° 32')		7.5	89° 30'	+3.3	-4.2		4872.5		+290	+239	958,092	1,669,266
554	697		200° 55' (40° 37')		7.1	89° -	+12.2	+5.1		4881.8		+529	+454	958,331	1,669,481
TP50	806		198° 08' 41"		8.5	88° 30'	+21.1	+12.6			TP	+636	+494	958,439	1,669,821
TP50	806		(37° 50' 25")		8.4	271° 30'	+21.1	+12.5		4889.4	TP				
TP49			0° 00' 00"												
TP50	0				+5.15	11'		5.2	4894.6		TP	0	0	958,439	1,669,821
Bm	340		(12° 36' 130") 154° 46' 05"		5.4	86° 40'	+19.8	+14.4		4909.0	Bm	+331	+74	958,770	1,669,595
TP51	143		158° 07' 32"		6.8	91° -	-2.5	-9.3		4885.3	TP	+191	+39	958,574	1,669,559
TP51	143		(15° 57' 57")		6.7	269° -	-2.5	-9.2			TP	-2	-1		
TP50			0° 00' 00"												
TP51	0				+5.15	11'		+5.2	4890.5		TP	0	0	958,574	1,669,559
555	64		239° 00' (74° 51')		5.3	91° 30'	-1.7	-7.0		4883.5		+17	+62	958,591	1,669,621
556	391		247° 15' (83° 06')		6.0	92° 30'	-17.1	-23.1		4867.4		+47	+388	958,621	1,669,947

958,770 x = 1,669,595
U.S.O.A. B.M. FL. 49220
MAY 23 1984
SUNSHINE CORRECTION
GRID Azimuth 15° 51' 23"

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7.2.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	75				
AREA		TOPO MAP		STATE		COUNTY		TWP	PPM	PARTY MANAGER					
OREGON		3 Fingero Jack - 15		OREGON		DESCHUTES				L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4890.5						
TP32	674	673.1	243° 33' 19"		4.7	93°	-35.3	-40.0	4850.5	TP	+124	+662	958,696	1,670,220	
TP32	674		(79° 24' 42")		4.8	267°	-35.3	-40.1							
TP31			0 00 00												
TP32	0				+5.2	H.		+5.2	4855.7		0	0	958,696	1,670,220	
557	40		157° 25' (56° 50')		5.3	93°	-2.1	-7.4	4848.3		+22	+33	958,718	1,670,253	
TP33	250		157° 12' 40"		6.9	93°	-13.1	-20.0	4835.7	TP	+137	+208	958,832	1,670,427	
TP33	250		(56° 37' 22")		6.9	267°	-13.1	-20.0							
TP32			0 00 00												
TP33	0				+5.2	H.		+5.2	4840.9		0	0	958,832	1,670,427	
558	120		165° 55' (42° 32')		6.0	92° 30'	-5.2	-11.2	4829.7		+122	+112	958,954	1,670,539	
TP34	264		162° 04' 23"		8.3	92° 30'	-11.5	-19.8	4821.1	TP	+206	+165	959,037	1,670,591	
TP34	264		(38° 41' 45")		7.5	92° 40'	-12.3	-19.8							
TP33			0 00 00												
TP34	0				+5.3	H.		+5.3	4826.4		0	0	959,037	1,670,591	
559	186		211° 00' (69° 42')		5.7	91°	-3.2	-8.9	4817.5		+65	+174	959,102	1,670,765	
560	516		212° 00' (70° 42')		9.7	91°	-9.0	-18.7	4807.7		+171	+487	959,208	1,671,078	
TP35	580		209° 46' 27"		4.2	92°	-20.2	-24.4	4802.0	TP	+213	+539	959,249	1,671,129	
TP35	580		(68° 28' 12")		4.1	268°	-20.2	-24.3							
TP34			0 00 00												
TP35	0				+5.1	H.		+5.1	4807.1		0	0	959,249	1,671,129	

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7-2-84		B. Cotcamp		R. Trowbridge		6834		C.T.		2	76				
AREA		TOPO MAP		STATE		COUNTY		TWP	PPM	PARTY MANAGER					
OREGON		3 FINGERED JACK - 15'		OREGON		DESCHUTES				L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4807.1						
561	249		148° 10' (36° 38')		4.8	93° 04'	-13.3	-18.1		4789.0		+200	+148	959,449	1,671,277
TP56	310		146° 50' 14"		3.5	93° -	-16.2	-19.7		4787.4	TP	+253	+179	959,501	1,671,307
TP56	310		(35° 18' 26")		3.4	267° -	-16.2	-19.6			TP	-	-		
TP55			0° 00' 00"												
TP56	0				+5.1	Mi		+5.1	4792.5		X	0	0	959,501	1,671,307
562	279		230° 02' 36"		3.9	93° -	-14.6	-18.5		4774.0	TP	+23	+278	959,523	1,671,584
562	279		(85° 21' 02")		3.9	267° -	-14.6	-18.5			TP	-	-		
TP56			0° 00' 00"												
562	0				+4.95	Mi		+4.9	4778.9		X	0	0	959,523	1,671,584
563	328		151° 31' 13"		3.6	93° -	-17.2	-20.87			TP	+179	+274	959,701	1,671,857
563	328		(56° 52' 15")		2.6	93° 10'	-18.1	-20.7		4758.2	TP	-	-		
562			0° 00' 00"												
563	0				+5.0	Mi		+5.0	4763.2		X	0	0	959,701	1,671,857
564	330	329.5	158° 55' (35° 47')		7.0	93° -	-17.3	-24.3		4738.9		+267	+193	959,968	1,672,050
565	659	658.1	159° 10' (36° 02')		5.4	93° -	-34.5	-39.9		4723.3		+532	+387	960,233	1,672,244
TP57	739	738.0	158° 35' 44"		4.0	93° -	-38.7	-42.7			TP	+601	+428	960,301	1,672,284
TP57	739		(35° 21' 59")		3.9	267° -	-38.7	-42.6		4720.6	TP	-	-		
563			0° 00' 00"												
TP57	0				+4.8	Mi		+4.8	4725.4		X	0	0	960,301	1,672,284

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
7.2.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	77					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREGON		3 Fingered Jack - 15		ORE.		DESCHUTES					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									4725.4							
566	263	262.4	211° 54' 32"		3.0	94°	-18.3	-21.3		4704.1	TP	+101	+242	960,401	1,672,525	ACROSS STA.
566	263		(67° 22' 31")		2.9	266°	-18.3	-21.2			TP	-1	-1			
TP57			0° 00' 00"													
566	0				+4.95	Mi		+5.0	4709.1		TP	0	0	960,401	1,672,525	3 Fingered Jack - 15' ↑
567	331		200° 03' 12"		4.8	93°	-17.3	-22.1		4687.0	TP	+15	+330	960,415	1,672,854	SISTERS - 15' ↓
567	331		(87° 25' 43")		5.7	92° 50'	-16.4	-22.1			TP	-1	-1			
566			0° 00' 00"													
567	0				+5.2	Mi		+5.2	4692.2		TP	0	0	960,415	1,672,854	
568	330		193° 40' (102° 06')		4.7	93°	-17.3	-22.0		4670.2		-63	+323	960,352	1,673,177	
TP58	522	521.3	189° 16' 28"		3.0	93°	-27.3	-30.3		4661.9	TP	-61	+518	960,353	1,673,372	
TP58	522		(96° 42' 11")		1.5	93° 10'	-28.8	30.3			TP	-1	-1			
567			0° 00' 00"													
TP58	0				+5.25	Mi		+5.3	4667.2		TP	0	0	960,353	1,673,372	
569	134		166° 20' (83° 02')		5.9	92° 40'	-6.2	-12.1		4655.1		+14	+133	960,369	1,673,505	
570	458	457.4	155° 56' 40"		5.4	92° 50'	-22.6	-28.0			TP	+136	+437	960,488	1,673,808	
570	458		(72° 38' 51")		5.3	267° 10'	-22.6	-27.9		4639.3	TP	-1	-1			
TP58			0° 00' 00"													
570	0				+5.3	Mi		+5.3	4644.6		TP	0	0	960,488	1,673,808	
571	330	329.5	169° 00' (61° 39')		4.7	93°	-17.3	-22.0		4622.6		+157	+290	960,645	1,674,098	

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7.2.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	78						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		SISTERS-15		ORE.	DESCUTES					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									4644.6								
572	654	653.1	165° 45' 07"		3.8	93°	-34.2	-38.0			TP	+342	+556	960,829	1,674,363		
572	654		(58° 23' 58")		3.7	267°	-34.2	-37.9		4606.7	TP	-	-				
570			0 00 00														
572	0				+5.1	Hi		+5.1	4611.8		TP	0	0	960,829	1,674,363		
573	328	327.6	150° 26' (28° 50')		7.0	93°	-17.2	-24.2		4587.6		+287	+158	961,116	1,674,521		
TP59	419	418.4	149° 46' 50"		6.7	93°	-21.9	-28.6		4583.2	TP	+369	+198	961,197	1,674,560		
TP59	419		(28° 10' 48")		6.7	267°	-21.9	-28.6			TP	-	-				
572			0 00 00														
TP59	0				+5.2	Hi		+5.2	4588.4		TP	0	0	961,197	1,674,560		
574	241		193° 54' (42° 05')		5.5	92° 40'	-11.2	-16.7		4571.7		+179	+162	961,376	1,674,722		
575	571		193° 04' (41° 15')		6.0	92° 40'	-26.6	-32.6		4555.8		+429	+376	961,626	1,674,936		
576	900	899.0	192° 52' 48"		7.8	92° 40'	-41.9	-49.7		4538.7	TP	+678	+591	961,874	1,675,150		
576	900		(41° 03' 36")		7.8	267° 20'	-41.9	-49.7			TP	-	-				
TP59			0 00 00														
576	0				+5.35	Hi		+5.4	4544.1		TP	0	0	961,874	1,675,150		
Bm	177		(234° 14' 37") 13 11 01		5.3	88°	+6.2	+0.9		4545.0	Bm	-103	-144	961,771	1,675,006	Bm ELEV. 4545.0	
577	330		202° 30' (63° 34')		3.3	92° 40'	-15.4	-18.7		4525.4		+147	+296	962,021	1,675,446		
578	660		203° 03' (64° 07')		9.7	92° 20'	-26.9	-36.6		4507.5		+288	+594	962,162	1,675,744		
TP60	822	821.1	202° 02' 01"		6.8	92° 40'	-38.2	-45.0		4499.1	TP	+372	+732	962,245	1,675,881		
TP60	822		(63° 05' 37")		6.8	267° 20'	-38.2	-45.0			TP	-	-				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7.2.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	79			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		Sisters - 15		ORE.	DESCHUTES -					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
576			0° 00' 00"							4499.1				
TP ₆₀	0				+5.0	41'		+5.0	4504.1		A	0	0	962,245 1,675,881
579	164		181° 30' (64° 30')		6.3	92°	-5.7	-12.0		4492.1		+70	+148	962,315 1,676,029
580	491	490.3	174° 13' 04"		4.0	93°	-25.7	-29.7		4474.4	TP	+265	+413	962,509 1,676,293
580	491		(57° 18' 41")		2.6	93° 10'	-27.1	-29.7			TP	-	-	
TP ₆₀			0° 00' 00"											
580	0				+5.25	41'		+5.2	4479.6		A	0	0	962,509 1,676,293
581	330		188° 20' (65° 39')		4.3	93°	-17.3	-21.6		4458.0		+136	+301	962,645 1,676,594
582	660		- " (- ")		4.0	93°	-34.5	-38.5		4441.1		+272	+601	962,781 1,676,894
583	990		188° 10' (65° 29')		4.0	93°	-51.8	-55.8		4423.8		+411	+901	962,920 1,677,194
TP ₆₁	1149	1147.4	187° 00' 16"		5.5	93°	-60.1	-65.6		4414.0	TP	+497	+1034	963,005 1,677,326
TP ₆₁	1149		(64° 18' 57")		5.4	267°	-60.1	-65.5			TP	-	-	
580			0° 00' 00"											
TP ₆₁	0				+5.1	41'		+5.1	4419.1		A	0	0	963,005 1,677,326
584	167		173° 45' (58° 04')		5.9	93°	-8.7	-14.6		4404.5		+88	+142	963,093 1,677,468
TP ₆₂	218		172° 24' 30"		6.1	93°	-11.4	-17.5		4401.6	TP	+119	+182	963,123 1,677,507
TP ₆₂	218		(56° 43' 27")		5.5	93° 10'	-12.0	-17.5			TP	-	-	
TP ₆₁			0° 00' 00"											
TP ₆₂	0				+5.2	41'		+5.2	4406.8		A	0	0	963,123 1,677,507

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7.2.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	80				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		SISTERS - 15		ORE		DESCUTES					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4406.8						
585	275		160° 30' (37° 13')		5.5	92° 30'	-12.0	-17.5		4389.3		+219	+166	963,342	1,677,673
TP ₆₃	498	497.5	159° 59' 00"		6.0	92° 30'	-21.7	-27.7			TP	+399	+297	963,521	1,677,803
TP ₆₃	498		(36° 42' 27")		4.6	92° 40'	-23.2	-27.8		4379.0	TP	-1	-1		
TP ₆₂			0 00 00												
TP ₆₃	0				+4.9	M ₁		+4.9	4383.9		π	0	0	963,521	1,677,803
586	114		212° 15' (68° 57')		5.8	92° 30'	-5.0	-10.8		4373.1		+41	+106	963,562	1,667,969
587	442		204° 46' 00"		8.4	92° 30'	-19.3	-27.7		4356.2	TP	+211	+388	963,731	1,678,190
587	442		(61° 28' 27")		7.1	92° 40'	-20.6	-27.7			TP	-1	-1		
TP ₆₃			0 00 00												
587	0				+5.35	M ₁		+5.3	4361.5		π	0	0	963,731	1,678,190
Bm	485		(241° 01' 43") 359° 33' 16"		4.9	87° -	+25.4	+20.5		4382.0	Bm	-235	-424	963,496	1,677,766
588	330		200° 52' (82° 20')		6.0	92° 40'	-15.4	-21.4		4340.1		+44	+327	963,775	1,678,517
589	660		202° 06' (83° 34')		6.0	92° 50'	-32.6	-38.6		4322.9		+74	+656	963,805	1,678,846
TP ₆₄	792	790.9	201° 17' 29"		3.8	93° -	-41.4	-45.2		4316.3	TP	+100	+785	963,830	1,678,974
TP ₆₄	792		(82° 45' 56")		6.1	92° 50'	-39.1	-45.2			TP	-1	-1		
587			0 00 00												
TP ₆₄	0				+5.1	M ₁		+5.1	4321.4		π	0	0	963,830	1,678,974
590	190		156° 00' (58° 46')		5.3	93° -	-9.9	-15.2		4306.2		+99	+162	963,929	1,679,136
591	526	525.3	152° 47' 19"		5.5	93° -	-27.5	-33.0		4288.4	TP	+297	+433	964,126	1,679,406
591	526		(55° 33' 15")		5.5	261° -	-27.5	-33.0			TP	-1	-1		ACROSS STA.

* 963,505 x = 1,677,760
Bm ELEV 4382.0

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7.2.84		B. Cotoamp		R. Traubridge		6834		C.T. B.C.		2	81						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		Sisters - 15'		ORE.	Deschutes					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
TP64			0 00 00							4288.4							
591	0				+5.0	Hi		+5.0	4293.4		TP	0	0	964,126	1,679,406	ACROSS STA.	
TP65	312		214 25 50		6.0	93-	-116.3	-22.3		4271.1	TP	+0	+312	964,125	1,679,717		
TP65	312		(89° 59' 05")		5.1	93 10	-172	-22.3			TP	-1	-1				
591			0 00 00														
TP65	0				+5.05	Hi		+5.0	4276.1		TP	0	0	964,125	1,679,717		
592	33		242 00 (151° 59')		6.8	-	-	-6.8		4269.3		-29	+16	964,096	1,679,733		
593	356		206 50 (116° 49')		7.2	93-	-18.6	-25.8		4250.3		-161	+318	963,964	1,680,035		
TP66	469	468.4	205 45 46		7.9	93-	-24.5	-32.4		4243.7	TP	-203	+422	963,921	1,680,138		
TP66	469		(115° 44' 51")		6.5	93 10	-25.9	-32.4			TP	-1	-1				
TP65			0 00 00														
TP66	0				+5.2	Hi		+5.2	4248.9		TP	0	0	963,921	1,680,138		
594	210		214 25 (150° 10')		6.3	93-	-11.0	-17.3		4231.6		-182	+104	963,739	1,680,242		
TP67	277		208 53 12		5.9	93-	-14.5	-20.4		4228.5	TP	-226	+160	963,694	1,680,297		
TP67	277		(144° 38' 03")		5.1	93 10	-15.3	-20.4			TP	-1	-1				
TP66			0 00 00														
TP67	0				+5.15	Hi		+5.1	4233.6		TP	0	0	963,694	1,680,297		
595	264		130 25 (95° 03')		6.5	93-	-13.8	-20.3		4213.3		-23	+263	963,671	1,680,560		
TP68	330		128 16 13		6.1	93-	-17.3	-23.4		4210.2	TP	-17	+329	963,676	1,680,626		
TP68	330		(92° 54' 16")		5.1	93 10	-18.2	-23.3			TP	-1					

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.2.84		B. Cotcamp		R. TrowBR.09e.		6834		C.T.		2		82			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		SISTERS - 15'		ORE.		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP ₆₇			0° 00' 00"							4210.2					
TP ₆₈	0				+5.1	Hi		+5.1	4215.3		T	0	0	963.676	1,680.626
596	262		163° 00' (75° 50')		7.1	93°	-137	-20.8		4194.5		+64	+254	963.740	1,680,880
597	592		161° 20' (74° 14')		9.7	93°	-21.0	-40.7		4174.6		+161	+570	963,837	1,681,196
598	922		161° 35' (74° 29')		7.1	93° 20'	-53.6	-60.7		4154.6		+247	+888	963,923	1,681,514
TP ₆₉	1076	1074.0	160° 44' 25"		5.7	93° 30'	-65.7	-71.4		4143.9	TP	+302	+1031	963,977	1,681,657
TP ₆₉	1076		(73° 38' 41")		5.6	266° 30'	-65.7	-71.3			TP	-1			
TP ₆₈			0° 00' 00"												
TP ₆₉	0				+4.8	Hi		+4.8	4148.7		T	0	0	963,977	1,681,657
Bm	71		(110° 58' 16") 217 19 35		1.4	-		-1.4		4147.3	Bm	-25	+66	963,952	1,681,723
599	169		173° 50' (67° 29')		6.3	92° 30'	-7.4	-13.7		4135.0		+65	+156	964,042	1,681,813
TP ₇₀	250		171° 26' 46"		7.9	92° 30'	-10.9	-18.8		4129.9	TP	+105	+227	964,081	1,681,884
TP ₇₀	250		(65° 05' 27")		7.1	92° 40'	-11.6	-18.7			TP	-1			
TP ₆₉			0° 00' 00"												
TP ₇₀	0				+5.3	Hi		+5.3	4135.2		T	0	0	964,081	1,681,884
600	248		188° 40' (73° 45')		5.9	83°	-13.0	-18.9		4116.3		+69	+238	964,150	1,682,122
601	578		189° 30' (74° 35')		5.5	93°	-30.3	-35.8		4099.4		+154	+557	964,235	1,682,441
TP ₇₁	795	794.2	188° 07' 16"		7.3	92° 30'	-34.7	-42.0		4093.2	TP	+229	+760	964,309	1,682,644
TP ₇₁	795		(73° 12' 43")		7.2	267° 30'	-34.7	-41.9			TP	-1			

y = 963,930 x = 1,681,710
Bm Elev 4147.6

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7-2-84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	83			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		Sisters - IS		ORE.	DESCUTES					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
TP ₂₀			0° 00' 00"							4093.2				
TP ₁₁	0				+5.2	H.		+5.2	4098.4		π	0	0	964.309, 1,682.644
602	111		177° 30' (70° 43')		6.3	91° 30'	-2.9	-9.2		4089.2		+37	+105	964.346, 1,682.749
603	441		176° 25' (69° 38')		5.7	91° 30'	-11.5	-17.2		4081.2		+153	+413	964.462, 1,683.057
TP ₁₂	508		176° 55' 17"		6.2	91° 30'	-13.3	-19.5		4078.9	TP	+173	+478	964.481, 1,683.122
TP ₂₂	508		(70° 08' 00")		7.7	91° 20'	-11.8	-19.5			TP	-		
TP ₁₁			0° 00' 00"											
TP ₂₂	0				+5.25	H.		+5.2	4084.1		π	0	0	964.481, 1,683.122
604	262		196° 50' (86° 58')		7.4	92°	-9.1	-16.5		4067.6		+14	+262	964.495, 1,683.384
605	592		194° 20' (84° 28')		9.3	92°	-20.7	-30.0		4054.1		+57	+589	964.538, 1,683.711
TP ₁₃	757	756.4	193° 27' 32"		5.5	92° 20'	-30.8	-36.3		4047.8	TP	+84	+752	964.564, 1,683.874
TP ₁₃	757		(83° 35' 32")		5.4	267° 40'	-30.8	-36.2			TP	-		
TP ₂₂			0° 00' 00"											
TP ₁₃	0				+4.8	H.		+4.8	4052.6		π	0	0	964.564, 1,683.874
606	164		176° 45' (80° 21')		5.7	92°	-5.7	-11.4		4041.2		+27	+162	964.591, 1,684.036
607	494		177° 45' (81° 21')		6.7	92°	-17.2	-23.9		4028.7		+74	+488	964.638, 1,684.362
TP ₁₄	433		178° 11' 32"		7.9	92°	-15.1	-23.0		4029.6	TP	+62	+428	964.625, 1,684.302
TP ₁₄	433		(81° 47' 34")		7.9	268°	-15.1	-23.0			TP	-		
TP ₁₃			0° 00' 00"											
TP ₁₄	0				+5.0	H.		+5.0	4034.6		π	0	0	964.625, 1,684.302

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7.3.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	84				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREGON		Sisters - 15		ORE.	DESchutes					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			PLATES -7 (gr. 05)						4034.6						
608	384		150° 05' (51° 52')		4.5	91° -	-6.7	-11.2		4023.4		+237	+302	964,862	1,684,604
#1	475		147° 34' 54" (51° 50')		5.3	91° -	-8.3	-13.6		4021.0	#1	+308	+362	964,933	1,684,664
609	713		149° 25' (51° 12')		8.6	91° -	-12.4	-21.0		4013.6		+447	+556	965,072	1,684,858
TP ₁₅	957		148° 50' 52"		5.8	91° 20'	-22.2	-28.0		4006.6	TP	+607	+740	965,231	1,685,042
TP ₁₅	957		(50° 37' 56")		5.8	268° 40'	-22.2	-28.0			TP	-1			
TP ₁₄			0 00 00												
TP ₁₅	0				+4.9	Hi		4.9	4011.5		π	0	0	965,231	1,685,042
610	96		208° 15' (78° 53')		7.7	90° 30'	-0.8	-8.5		4003.0		+19	+94	965,250	1,685,136
Bm	571		3° 17' 48" (233° 55' 44")		5.4	88° -	+19.9	+14.5		4026.0	Bm	-336	-461	964,895	1,684,581
611	419		190° 50' (61° 28')		6.0	92° -	-14.6	-20.6		3990.9		+200	+368	965,431	1,685,410
TP ₁₆	529		190° 00' 27"		4.1	92° -	-18.5	-22.6		3988.9	TP	+259	+461	965,489	1,685,503
TP ₁₆	529		(60° 38' 23")		2.5	92° 10'	-20.0	-22.5			TP	-1			
TP ₁₅			0 00 00												
TP ₁₆	0				+5.1	Hi		+5.1	3994.0		π	0	0	965,489	1,685,503
612	227		207° 35' (88° 13')		5.6	92° -	-7.9	-13.5		3980.5		+7	+227	965,496	1,685,730
613	557		209° 50' (90° 28')		9.8	92° -	-19.4	-29.2		3964.8		-5	+557	965,484	1,686,060
614	884		208° 05' (88° 43')		10.8	92° 30'	-38.5	-49.3		3944.7		+20	+884	965,509	1,686,387
TP ₁₇	1097	1095.8	208° 11' 33"		10.5	92° 40'	-51.0	-61.5		3932.5	TP	+22	+1096	965,510	1,686,599
TP ₁₇	1097		(88° 49' 56")		10.5	267° 20'	-51.0	-61.5			TP	-1			

y = 964,920 x - 1,684,490
T-ROAD

y = 964,900 x - 1,684,570
Bm. ELEV. 4026.0

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.3.84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2		85			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15'		ORE.		DESMUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			Plates - 7 (92105)												
TP ₁₆			0 00 00						3932.5						
TP ₁₇	0				+4.85	H _i		+4.8	3937.3		T	0	0	965.510	1,686,599
615	124		213° 45' (122° 35')		6.6	93°	-6.5	-13.1	3924.2			-67	+104	965.443	1,686,703
TP ₁₈	282		206° 29 02		5.6	93°	-14.8	-20.4	3916.9		TP	-120	+255	965.389	1,686,854
TP ₁₈	282		(115° 18' 58")		4.7	93 10	-15.6	-20.3			TP	-			
TP ₁₇			0 00 00												
TP ₁₈	0				+5.1	H _i		+5.1	3922.0		T	0	0	965.389	1,686,854
616	188		220° 30' (155° 49')		6.1	93° 30'	-11.5	-17.6	3904.4			-172	+77	965,217	1,686,931
617	513		214° 30' (149° 49')		6.4	93° 30'	-31.3	-37.7	3884.3			-443	+258	964,946	1,687,112
TP ₁₉	550	549.0	213° 40' 36"		4.8	93° 30'	-33.6	-38.4	3883.6		TP	-471	+283	964,917	1,687,137
TP ₁₉	550		(148° 59' 34")		6.4	93° 20'	-32.0	-38.4			TP	-			
TP ₁₈			0 00 00												
TP ₁₉	0				+4.9	H _i		+4.9	3888.5		T	0	0	964,917	1,687,137
618	302		225° 25' (194° 25')		7.2	93°	-15.8	-23.0	3865.5			-292	-75	964,625	1,687,062
619	625		225° 47' (194° 47')		6.2	93°	-32.7	-38.9	3849.6			-604	-159	964,313	1,686,978
TP ₂₀	645	644.1	214° 00 55		6.1	93°	-33.7	-39.8	3848.7		TP	-628	-145	964,288	1,686,992
TP ₂₀	645		(193° 00' 29")		4.2	93 10	-35.6	-39.8			TP	-			
TP ₁₉			0 00 00												
TP ₂₀	0				+4.75	H _i		+4.8	3853.5		T	0	0	964,288	1,686,992

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7-2-84		B. Cotcamp		R. Trowbridge		6834		C.T. B.C.		2	86				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
OREgon		Sisters - 15'		ORE.	Deschutes					L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3853.5						
620	269		77° 25' 03"		8.2	92°	-9.4	-17.6		3835.9	TP	-2	+269	964,285	1,687,261
620	269		(90° 25' 32")		7.4	92° 10'	-10.2	-17.6			TP	-1			
TP80			0 00 00												
620	0				+5.1	M.		+5.1	3841.0		TP	0	0	964,285	1,687,261
621	330		158° 45' (69° 11')		7.1	92° 20'	-13.4	-20.5		3820.5		+117	+308	964,402	1,687,569
622	660		" " (")		3.9	92° 20'	-26.9	-30.8		3810.2		+235	+617	964,520	1,687,878
IF	809	808.3	157° 54' 59" (68° 20' 29")		5.0	92° 20'	-32.9	-37.9		3803.1	IF	+298	+751	964,583	1,688,012
623	990		158° 45' (69° 11')		7.0	92° 20'	-40.3	-47.3		3793.7		+352	+925	964,637	1,688,186
624	1320		" " (")		7.9	92° 20'	-53.7	-61.6		3779.4		+469	+1234	964,754	1,688,495
625	1650		" " (")		5.2	92° 20'	-67.1	-72.3		3768.7		+586	+1542	964,871	1,688,803
TP81	1910	1908.5	158° 59' 09"		7.4	92° 16'	-75.5	-82.9		3758.2	TP	+671	+1787	964,955	1,689,048
TP81	1910		(69° 24' 41")		7.2	267° 44'	-75.5	-82.7	-82.8		TP	-1			
TP80			0 00 00												
TP81	0				+4.95	M.		+5.0	3763.2		TP	0	0	964,955	1,689,048
626	79		215° 20' (104° 45')		6.5	91°	-1.4	-7.9		3755.3		-20	+76	964,935	1,689,124
627	404		202° 45' (92° 10')		8.3	91°	-7.0	-15.3		3747.9		-15	+404	964,940	1,689,452
TP82	529		201° 37' 30"		7.8	91°	-9.2	-17.0		3746.2	TP	-10	+529	964,944	1,689,577
TP82	529		(91° 02' 11")		6.2	91° 10'	-10.8	-17.0			TP	-1			

964,570 x 1,687,935
T - Intersect

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7.3.84		B. Cotcamp		R. Trowbridge		6834		RT. C.T.		2	87			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
OREGON		SISTERS-13		ORE.	DESCUTES					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
TP81			0 00 00							3746.2				
TP82	0				+4.95	hi		+5.0	3751.2		TP	0	0	964,944 1,689,577
628	211		200° 00' (111° 02')		6.4	91° 20'	-4.9	-11.3		3739.9		-76	+197	964,868 1,689,774
629	541		197° 20' (108° 22')		7.9	91° 40'	-15.7	-23.6		3727.6		-170	+513	964,774 1,690,090
630	871		196° 50' (107° 52')		8.7	91° 40'	-25.3	-34.0		3717.2		-267	+829	964,677 1,690,106
631	1201		196° 34' (107° 36')		9.8	91° 40'	-34.9	-44.7		3706.5		-363	+1145	964,581 1,690,722
632	1531 ¹⁵³¹		196° 30' (107° 32')		8.3	91° 50'	-48.9	-57.2		3694.0		-461	+1460	964,483 1,691,037
IF	1805		196° 07' 18"		7.6	91° 50'	-57.7	-65.3		3686.6	TP	-532	+1724	964,410 1,691,300
IF	1805		(107° 09' 29")		7.3	268° 10'	-57.7	-65.0	-65.23		TP	-2	-1	86° 06' 01" x -1 -21
	884		319° 31' 35"	+20.5	10.4	89°	-15.4	-5.0	3681.0		BS	-831	+302	BACK to magnetics
	884				+7.8	89° 10'	-12.9	-5.1			BS			↓
633	809		319° 24'	"	6.8	89° 20'	+9.4	+2.6		3683.6		+760	-278	964,339 1,691,324
634	479		"	"	5.8	89° 20'	+5.6	-0.2		3680.8		+450	-165	964,029 1,691,437
#	539		319° 55' 12"	"	6.0	89° 20'	+6.3	+0.3		3681.3	#	+508	-181	964,087 1,691,421
635	150		316° 16'	"	7.2	88° 10'	+4.8	-2.4		3678.6		+138	-59	963,717 1,691,543
π	0				5.0	-		-5.0		3676.0	π	0	0	963,579 1,691,602
636	181		140° 58'	+20.5	6.0	90° 30'	-1.6	-7.6		3673.4		-172	+58	963,407 1,691,660
637	510		138° 40'	"	10.3	90° 30'	-4.5	-14.8		3666.2		-477	+181	963,102 1,691,783
638	840		139° 08'	"	9.0	90° 40'	-9.8	-18.8		3662.2		-787	+292	962,792 1,691,899
639	1170		"	"	5.7	90° 40'	-13.6	-19.3		3661.7		-1097	+407	962,482 1,692,009

3 - 964,410 x -1,691,300
 1/2 - intersect horiz. line
 magnetic to T.P. corr. -47
 86° 06' 01" x -1
 -21

3 - 964,070 x -1,691,450
 # section line

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.3.84		B. Cotcamp		R. Rowbridge		6834		R.T. CT		2		88			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		SISTERS-15		ORE.		DESMUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3681.0						
TP	1231		138° 39' 59"	+20.5°	5.2	90° 40'	-14.3	-19.5	}	3661.6	TP	-1150	+438	962,429	1,692,040
TP	1231				4.9	269° 20'	-14.3	-19.2		-19.43	TP				
	794		307° 11' 34"	-	+7.6	88° 30'	-20.8	-13.2	}		BS	-671	+424		
	794				+5.2	88° 40'	-18.5	-13.3		3648.3	BS				
640	528		307° 10'	-	7.0	88° 40'	+12.3	+5.3		3653.6		+446	-282	962,204	1,692,182
641	201		302° 10'	-	7.0	88° 40'	+4.7	-2.3		3646.0		+160	-122	961,918	1,692,342
π	0				5.0	-		-5.0		3643.3	π	0	0	961,758	1,692,464
π	106		77° 46' 30"	+20.5°	4.7	90° 10'	-0.3	-5.0		3643.3		-15	+105	961,743	1,692,581
642	135		80° 00'	-	5.2	-		-5.2		3643.1		-25	+133	961,733	1,692,597
643	464		77° 35'	-	11.2	84°	-2.3	-13.5		3634.8		-65	+459	961,693	1,692,923
644	794		77° 52'	-	12.7	90° 30'	-6.9	-19.6		3628.7		-116	+786	961,642	1,693,250
TP	981		76° 11' 28"	-	4.8	90° 50'	-14.3	-19.1	}	3629.2	TP	-114	+974	961,644	1,693,438
TP	981				4.7	269° 10'	-14.3	-19.0				TP			
	534		255° 04' 22"	+20.5°	7.4	87° 30'	-23.3	-15.9	}		BS	-52	+531		
	534				+7.3	272° 30'	-23.3	-16.0		3613.2	BS				
645	395		256° 00'	-	7.3	87° 10'	+19.5	+12.2		3625.4		+45	-392	961,637	1,693,577
π	358		257° 10' 44"	-	6.7	87° 10'	+17.7	+11.0		3624.2	π	+48	-354	961,640	1,693,615
646	72		232° 32'	-	5.6	87° 10'	+3.6	-2.0		3611.2		-21	-69	961,571	1,693,900
π	0				5.0	-		-5.0		3608.2	π	0	0	961,592	1,693,969
647	269		86° 40'	+20.5°	4.8	90° 04'	-0.3	-5.1		3608.1		-79	+257	961,513	1,694,226

y - 961.735 ← 1,692,495

π y - Intersect

π y - 901,600 x - 1,693,535
π 4 way Inter.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.3.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		89			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15		ORE.		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3613.2						
648	594		80° 08 55	+20.5°	2.8	-		-2.8		3610.4	TP	-110	+584	961,482	1,694,553
648	594				2.7	270°		-2.7			TP				
	1974		263° 06 23	-- +	10.3	89° 20'	-23.0	-12.7	3597.6		BS	-464	+1918		
	1974				+10.1	270° 40'	-23.0	-12.9	-12.8		BS				
649	1646		262° 17'	+20.5°	6.3	-		-6.3		3591.3		+364	-1605	961,382	1,694,866
650	1317		261° 00'	--	6.3	-		-6.3		3591.3		+263	-1291	961,281	1,695,180
651	989		259° 11'	--	7.5	TH	+4.9	-2.6		3595.0		+166	-975	961,184	1,695,496
652	660		256° 40'	--	5.2	TH	+3.3	-1.9		3595.7		+82	-655	961,100	1,695,816
653	330		--	--	7.2	89° 10'	+4.8	-2.4		3595.2		+41	-327	961,059	1,696,144
1/4	78		261° 00 05	--	4.8	89° 40'	+0.5	-4.3		3593.3	1/4	+16	-76	961,034	1,696,395
654	0				5.0	-		-5.0		3592.6	X	0	0	961,018	1,696,471
655	330		72° 15'	+20.5°	7.3	-		-7.3		3590.3		-16	+330	961,002	1,696,801
656	660		71° 24'	--	8.4	BH	-3.3	-11.7		3585.9		-22	+660	960,996	1,697,131
657	990		71° 05'	--	8.0	90° 30'	-8.6	-16.6		3581.0		-27	+990	960,991	1,697,461
658	1320		70° 52'	--	10.3	90° 30'	-11.5	-21.8		3575.8		-31	+1320	960,987	1,697,791
659	1649		70° 57'	--	12.0	90° 30'	-14.4	-26.4				-42	+1648	960,976	1,698,119
660	1979		71° 02 40	+20.0	8.8	90° 40'	-23.0	-31.8		3565.9	TP	-36	+1979	960,982	1,698,450
660	1979				8.5	269° 20'	-23.0	-31.5	-31.7		TP				
	598		251° 48 28	-- +	3.8	88° 30'	-15.7	-11.9			BS	-19	+598		
	598				+3.7	271° 30'	-15.7	-12.0	3553.9		BS				

Y - 961,100 X - 1,696,338
1/4 4 WAYS

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
7.3.84		B. Cotcamp		R. Trowbridge		6834		R.S. CT			2	90					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
OREGON		SISTERS - 15'		ORE.	DESCHUTES					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									3553.9								
1 1/2	510		251° 06' 28"	+20.0	4.8	88° 14'	+15.7	+10.9		3564.8		+10	-510	960,973	1,698,538		
661	269		251° 06'	--	5.3	88° 10'	+8.6	+3.3		3557.2		+5	-269	960,068	1,698,779		
	0				5.0	-		-5.0		3548.9	TP	0	0	960,963	1,699,048		
662	63		92° 40'	--	6.7	-		-6.7		3547.2		-24	+58	960,939	1,699,106		
TP	155		89° 08' 03"	--	8.0	-		-8.0		3545.9	TP	-51	+146	960,912	1,699,194		
TP	155				8.7	TM	+0.8	-7.9			TP						
	372		269° 29' 10"	+20.0	2.8	90° -		+2.8	3548.7		BS	-124	+351				
	372				4.7	TM	-1.9	+2.8			BS						
663	216		230° 45'	--	6.7	88° -	+7.5	+0.8		3549.5		-71	-204	960,717	1,699,341		
	0				5.0	-		-5.0		3543.7	TP	0	0	960,788	1,699,545		
664	107		66° 35'	--	7.6	-		-7.6		3541.1		+6	+107	960,794	1,699,652		
1 1/2	46		39° 16' 45"	--	6.3	-		-6.3		3542.4	1 1/2	+24	+40	960,812	1,699,585	960,805 x -1,699,700 y - Int/Bisect	
665	431		74° 00'	--	3.3	91° 20'	-10.0	-13.3		3535.4		-30	+430	960,758	1,699,975		
TP	397		72° 52' 55"	+19.6	4.5	91° 20'	-9.2	-13.7		3535.0	TP	-17	+397	960,771	1,699,942		
TP	397				2.1	268° 20'	-11.5	-13.6			TP						
	600		235° 12' 55"	--	4.0	BM	+3.0	+7.0	3541.9		BS	+157	+579				
	600				3.8	BM	+3.0	+6.8	3541.9		BS						
666	241		235° 15'	--	7.1	89° 40'	+1.4	-5.7		3536.2		-63	-233	960,865	1,700,288		
	0				5.0	-		-5.0		3536.9	TP	0	0	960,928	1,700,521		
667	93		83° 05'	--	5.4	89° 40'	+0.5	-4.9		3537.0		-20	+91	960,908	1,700,612		

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.3.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		91			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		SISTERS - 15'		OREGON		DESCUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3541.9						
668	423		78° 00'	+19.6	5.6	90° 40'	-4.9	-10.5		3531.4		-56	+419	960872	1700940
669	753		" "	" "	8.0	90° 40'	-8.8	-16.8		3525.1		-100	+746	960828	1701267
670	1083		78° 10'	" "	7.7	91° -	-18.9	-26.6		3515.3		-146	+1073	960782	1701594
TP	1157		77° 24' 48"	" "	7.8	91° -	-20.2	-30.0		3512.0	TP	-141	+1148	960787	1701669
TP	1157				9.6	269° -	-20.2	-29.8	-29.9		TP				
	483	481.9	265° 01' 21"	+19.6	7.5	86° 10'	-32.3	-24.8		3487.2	BS	-122	+466		
	483				6.1	273° 40'	-30.9	-24.8			BS				
671	226		265° 00'	" "	4.8	85° 30'	+17.7	+12.9		3500.1		+57	-219	960722	1701916
X	0				5.0	-		-5.0		3482.2	X	0	0	960665	1702135
672	106		97° 00'	" "	8.0	94° 30'	-8.3	-16.3		3470.9		-47	+95	960618	1702230
±	197		96° 02' 14"	" "	6.3	94° 30'	-15.5	-21.8		3465.4	±	-85	+177	960580	1702312
673	435		102° 30'	" "	7.0	92° -	-15.2	-22.2		3465.0		-231	+369	960434	1702501
674	760		107° 52' 29"	" "	3.6	91° 30'	-19.9	-23.5		3463.7	TP	-462	+603	960203	1702738
674	760				5.7	268° 40'	-17.7	-23.4			TP				
	989		294° 06' 49"	+19.3	8.6	89° -	-17.3	-8.7		3454.9	BS	-680	+718		
	989				11.2	271° 10'	-20.1	-8.9	-8.8		BS				
675	660		293° 00'		6.8	88° 40'	+15.4	+8.6		3463.5		+444	-488	959967	1702968
676	330		292° 00'		9.0	87° 40'	+13.4	+4.4		3459.3		+218	-248	959741	1703208
677	0				5.0	-		-5.0		3449.9	X	0	0	959523	1703456
678	333		97° 26'		7.1	90° 40'	-3.9	-11.0		3443.9		-150	+297	959323	1703753

y = 960,605 x = 1,702,310
4 way Intc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.3.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		92			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters -15'		OREGON		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3454.9						
TP	625		95° 56' 50"	+19.3	9.2	91° 10'	-12.7	-21.9		3433.0	TP	-266	+566	959,257	1,704,022
TP	625				11.0	91° -	-10.9	-21.9			TP				
	454		253° 07' 22"	--	+4.2	89° -	-7.9	-3.7	3429.3		BS	-19	+454		
	454				+2.9	89° 10'	-6.6	-3.7			BS				
679	417		252° 35'	--	7.0	88° 40'	+9.7	+2.7		3432.0		+14	-417	959,252	1,704,059
680	87		" "	--	5.7	88° 40'	+2.0	-3.7		3425.6		+3	-87	959,241	1,704,389
	0				5.0	-	-	-5.0		3424.3	TP	0	0	959,238	1,704,476
TP	60		66° 33' 33"	+19.3	5.8	-	-	-5.8		3423.5	TP	+4	+60	959,242	1,704,521
681	240		107° 20'	--	6.9	-	-	-6.9		3422.4		-143	+193	959,095	1,704,669
682	567		106° 55' 31"	--	9.6	-	-	-9.6		3419.7	TP	-335	+457	958,903	1,704,933
682	567				6.8	BH	-2.8	-9.6			TP				
	332		279° 08' 17"	--	+4.3	90° 40'	+3.9	+8.2			BS	-158	+292		
	332				+3.3	90° 50'	+4.8	+8.1	3427.8		BS	-2			
683	0				5.0	-	-	-5.0		3422.8	TP	0	0	958,743	1,705,225
684	332		136° 40'	+19.3	5.2	89° 10'	+4.8	-0.4		3427.4		-303	+135	958,440	1,705,360
TP	472		134° 36' 32"	--	5.1	-	-	-5.1		3422.7	TP	-424	+208	958,317	1,705,433
TP	472				7.4	74	+2.4	-5.0			TP	-2			
	363		288° 07' 08"	--	+3.8	87° -	-19.0	-15.2	3407.5		BS	-220	+288		
	363				+2.7	87° 10'	-17.9	-15.2			BS	-2	-2		

4-959,260 x -1,704,300
IF 4 way inter

ACCESS STA.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-5-84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		93			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15		OREGON		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3407.5						
685	172		284° 00'	+19.3°	9.2	87° 10'	+8.5	-0.7		3406.8		+94	-144	958189	1705,575
X	0				5.0	-		-5.0		3402.5	X	0	0	958095	1705,719
686	158		106° 30'	--	6.9	90° 20'	-0.9	-7.8		3399.7		-92	+128	958003	1705,847
687	488		167° 20'	--	6.4	90° 20'	-2.8	-9.2		3398.3		-291	+392	957804	1706,111
688	818		107° 26'	--	7.0	90° 20'	-4.8	-11.8		3395.7		-489	+656	957606	1706,375
689	1147		106° 39' 16"	--	4.8	90° 34'	-11.3	-16.1	}	3391.4	TP	-673	+928	957421	1706,645
689	1147				4.7	269° 26'	-11.3	-16.0				TP	-1	-2	
	812		284° 47' 00"	+19.3°	9.6	89° -	-14.2	-4.6	}	3386.8	BS	-455	+672		
	812				7.2	89° 10'	-11.8	-4.6				BS	-1	-2	
690	482		284° 30'	--	7.1	89° 10'	+7.0	-0.1		3386.7		+268	-401	957233	1706,914
691	152		282° 36'	--	6.9	89° 10'	+2.2	-4.7		3382.1		+80	-129	957045	1707,186
X	0				5.0	-		-5.0		3381.8	X	0	0	956965	1707,315
692	178		110° 35'	+19.3°	6.2	90° 30'	-1.6	-7.8		3379.0		-114	+137	956851	1707,452
693	507		106° 45'	--	8.2	90° 36'	-4.4	-12.6		3374.2		-298	+410	956662	1707,725
694	839		167° 02' 11"	--	5.9	90° 30'	-12.2	-18.1	}	3368.7	TP	-497	+676	956467	1707,989 ^{ACROSS STA.}
694	839				5.8	269° 10'	-12.2	-18.0				TP	-1	-2	
	330		304° 15' 56"	--	2.6	-		+2.6	}		BS	-266	+196		
	330				2.5	270° -		+2.5			3371.2	BS	-1	-2	
695	0				5.0	-		-5.0		3366.2	X	0	0	956200	1708,183

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7.5.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		94				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
OREGON		SISTERS - 15'		ORE.		DESCUATES								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									3371.2							
77	256		118° 11 02	+19.3	5.2	-		-5.2		3366.0	TP	-189	+173	956,011	1708,356	u-956,100 v-1,708.360 TF x - 2.076, 5.927
696	261		109° 00'	--	6.5	-		-6.5		3364.7		-162	+205	956,038	1708,388	
697	432		58° 20'	--	6.7	91-	-7.5	-14.2		3357.0		+93	+422	956,107	1708,605	
698	749		51° 11 52	--	8.2	91-	-13.1	-21.3		3349.9	TP	+250	+706	956,449	1708,887	
698	749			--	8.2	269-	-13.1	-21.3			TP	-	-2			
	3297		228° 42 00	+19.3	6.4	89-	-57.5	-51.1	3298.7		BS	+1235	+3056			
	3297			--	6.1	271-	-57.5	-51.4	-51.23		BS	-1	-2			
699	2970		228° 45'	--	6.0	89-	+51.8	+45.8		3344.5		-1110	-2755	956,573	1709,186	
700	2640		" "	--	6.2	89-	+46.1	+39.9		3338.6		-987	-2449	956,696	1709,492	
701	2316		" "	--	6.8	89-	+40.3	+33.5		3332.2		-863	-2143	956,820	1709,748	
702	1980		228° 45'	+19.3	7.2	89-	+34.6	+27.4		3326.1		-740	-1836	956,943	1710,105	
703	1650		" "	--	7.1	89-	+28.8	+21.7		3320.4		-617	-1530	957,066	1710,411	
704	1320		" "	--	7.1	89-	+23.0	+15.9		3314.6		-493	-1224	957,190	1710,717	
705	990		229° 14 24	--	7.7	89-	+17.3	+9.6		3308.3	TF	-362	-921	957,321	1711,020	u-957,390 x-1711,085 TF y w a g, E.L. 3308.0
706	660		228° 45'	--	7.5	89-	+11.5	+4.0		3302.7		-247	-612	957,436	1711,329	
707	330		" "	--	7.1	89-	+5.8	-1.3		3297.4		-123	-306	957,560	1711,635	
708	0			--	5.0	-		-5.0		3293.7	X	0	0	957,683	1711,941	
709	330		48° 50'	+19.3	6.8	90° 30'	-2.9	-9.7		3289.0		+123	+306	957,806	1712,247	
710	660		" "	--	11.0	90° 30'	-5.8	-16.8		3281.9		+246	+613	957,929	1712,554	
711	990		" "	--	10.4	90° 30'	-8.6	-19.0		3279.7		+369	+919	958,052	1712,860	

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTICE CHECKED BY		LINE NO.		PAGE			
7.5.84		B. Catcamp		R. Trowbridge		6834		R.T.		2		95			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15'		ORE.		DESMUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3298.7						
712	1320		48° 50'	+19.3	9.3	90° 30'	-11.5	-20.8		3277.9		+492	+1225	958,125	1713,166
713	1650		- -	- -	9.8	90° 30'	-14.4	-24.2		3274.5		+615	+1531	958,298	1713,472
714	1980		- -	- -	8.0	90° 40'	-23.0	-31.0		3267.7		+737	+1838	958,420	1713,779
715	2310		- -	- -	11.4	90° 40'	-26.9	-38.3		3260.4		+860	+2144	958,543	1714,085
716	2640		48° 50'	+19.3	10.1	90° 40'	-30.7	-40.8		3257.9		+983	+2450	958,666	1714,391
717	2970		- -	- -	9.1	90° 40'	-34.5	-43.6		3255.1		+1106	+2756	958,789	1714,697
718	3300		- -	- -	8.7	90° 40'	-38.4	-47.1		3251.6		+1229	+3063	958,912	1715,004
≠	3613		48° 44' 12"	- -	4.8	90° 40'	-42.0	-46.8		3251.9	TP	+1351	+3351	959,033	1715,290
≠	3613				4.9	269° 20'	-42.0	-46.9			TP	-	-		
	1693		290° 26' 47"	+19.3	2.8	-		+2.8	3254.6		BS	-1082	+1302		
	1693			+2.6	2.6	270°		+2.6	+2.73		BS	-	-		
719	1650		290° 02'	- -	8.3	89° 50'	+4.8	-3.5		3251.1		+1046	-1276	958,996	1715,314
720	1320		- -	- -	8.9	89° 50'	+3.8	-5.1		3249.5		+837	-1021	958,787	1715,569
721	990		- -	- -	7.9	89° 50'	+2.9	-5.0		3249.6		+627	-766	958,577	1715,824
≠	705		290° 41' 25"	- -	7.2	89° 50'	+2.1	-5.1		3249.5	≠	+453	-546	958,403	1716,050
722	660		290° 02'	- -	7.1	89° 50'	+1.9	-5.2		3249.4		+418	-510	958,368	1716,080
723	330		- -	- -	6.7	89° 50'	+1.0	-5.7		3248.9		+209	-255	958,159	1716,335
724	0				5.0	-		-5.0		3249.6	π	0	0	957,950	1716,590
725	330		110° 25'	+19.3	6.2	89° 50'	+1.0	-5.2		3249.4		-211	+254	957,739	1716,844
726	660		- -	- -	6.9	89° 50'	+1.9	-5.0		3249.6		-422	+508	957,528	1717,098

959,000 X - 1715,340
4 way Int. EL. 3252.0

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOT CHECKED BY		LINE NO.		PAGE			
7-5-84		B. Coteamp		R. Trowbridge		6834		R.N.C. CT		2		96			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREgon		Sisters - 15		ORE.		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3254.6						
727	990		110° 25'	+19.3	7.8	89° 30'	+2.9	-4.9		3249.7		-633	+762	952317	1717352
728	1320		111° 08'	--	9.0	89° 50'	+3.8	-5.2		3249.4		-856	+1005	952094	1717595
TP	1465		110° 29' 27"	--	8.8	-		-8.8		3246.0	TP	-938	+1126	952011	1717714
TP	1465				8.5	270° -		-8.5	-8.6		TP	-1	-2		
	665		328° 07' 21"	--	+7.7	-		+7.7	3253.7		BS	-649	+145		
	665				+11.0	TH	-3.3	+7.7			BS	-1	-2		
729	455		327° 40'	+19.3	6.4	-		-6.4		3247.3		+443	-103	956804	1717754
730	128		334° 30'	--	6.2	-		-6.2		3247.5		+127	-14	956488	1717843
π	0				5.0	-		-5.0		3248.7	π	0	0	956361	1717857
731	202		163° 50'	--	5.6	TH	+1.0	-4.6		3249.1		-202	-11	956159	1717846
732	532		164° 20'	--	6.7	-		-6.7		3247.0		-531	-34	955830	1717823
733	862		164° 37'	+19.3	8.8	-		-8.8		3244.9		-860	-59	955501	1717998
734	1192		164° 40'	--	9.3	BH	-6.0	-15.3		3238.4		-1189	-82	955172	1717725
≠	1430		164° 21' 13"	--	11.0	BH	-7.2	-18.2		3235.5	≠	-1427	-91	954934	1717766
735	1522		164° 45'	--	11.3	BH	-7.6	-18.9		3234.8		-1518	-107	954843	1717780
736	1852		164° 20'	--	9.7	BH	-9.3	-19.0		32347		-1848	-117	954513	1717740
TP	2144		164° 10' 36"	--	10.8	90° 10'	-6.2	-17.0		3236.8	TP	-2140	-130	954220	1717725
TP	2144				10.5	269° 50'	-6.2	-16.7	-16.9		TP	-1	-2		
	653		313° 13' 20"	+19.3	8.9	-		+8.9			BS	-579	+301		P.F.
	653				8.8	270° -		+8.8	3245.6		BS	-1	-2		

954935 x - 1717.815
T - Intersect

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTICE CHECKED BY		LINE NO.		PAGE		
7.5.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		97		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		
OREGON		SISTERS-15		ORE.		DESCHUTES						PARTY MANAGER L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3245.6					
737	610		314° 05'	+19.3°	9.2	-		-9.2		3236.4		+545	-273	954185 1717751
738	282		307° 50'	"	6.9	-		-6.9		3238.7		+237	-153	953877 1717871
TP	0				5.0	-		-5.0		3240.6	TP	0	0	953640 1718024
739	48		119° 15'	"	5.4	89° -	+0.8	-4.6		3241.0		-36	+32	953604 1718056
740	378		114° 20'	"	6.0	-		-6.0		3239.6		-261	+274	953379 1718298
TP	623		109° 12 04	"	7.4	-		-7.4		3238.2	TP	-388	+488	953251 1718510
TP	623				7.3	270° -		-7.3			TP	-1	-2	
	410		267° 10 11	+19.3°	10.2	-		+10.2	3248.4		BS	-116	+393	
	410				+9.0	90° 10'	+1.2	+10.2			BS	-1	-2	
741	330		266° 35'	"	7.9	90° 10'	-1.0	-8.9		3239.5		+90	-317	953224 1718584
742	0				5.2	-		-5.2		3243.2	TP	0	0	953134 1718901
IF	190		69° 30 58	"	5.7	89° 20'	+2.2	-3.5		3244.9	IF	+4	+190	953138 1719091/4
743	330		70° 03'	"	6.0	89° 20'	+3.8	-2.2		3246.2		+4	+330	953138 1719231
744	660		"	"	6.9	89° 20'	+7.7	+0.8		3249.2		+7	+660	953141 1719561
745	990		70° 02 35	"	8.8	89° 20'	+11.5	+2.7		3251.1	TP	+11	+990	953144 1719889
745	990				5.9	89° 30'	+8.6	+2.7			TP	-1	-2	
	2165		251° 28 11	+19.3°	14.5	89° 54'	-3.8	+10.7	3261.6		BS	-29	+2165	
	2165				+14.2	270° 06'	-3.8	+10.4	+10.53		BS	-1	-2	
746	1836		251° 28'	"	8.8	89° 56'	+2.1	-6.7		3254.9		+25	-1836	953139 1720216
747	1506		"	"	11.2	89° 40'	+8.8	-2.4		3259.2		+20	-1506	953137 1720546

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-5-84		B. Cotcamp		R. Trow Bridge		6834		B.T. CT		2		98			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15		ORE.		DESCUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3261.6						
748	1176		251° 28'	+19.3	7.8	89° 40'	+6.8	-1.0		3260.6		+16	-1176	953130	1720876
749	846		" "	" "	5.6	89° 40'	+4.9	-0.7		3260.9		+11	-846	953125	1721206
750	516		252° 14' 11"	" "	6.9	89° 20'	+6.0	-0.9		3260.7	#	+14	-516	953128	1721536
751	186		251° 28'	" "	4.8	89° 20'	+2.2	-2.6		3259.0		+2	-186	953116	1721866
X	0				5.0	-		-5.0		3256.6	X	0	0	953114	1722052
752	152		97° 00'	+19.3	6.8	90° 20'	-0.9	-7.7		3253.9		-67	+136	953047	1722188
753	480		100° 05'	" "	4.8	91° -	-8.4	-13.2		3248.4		-236	+418	952878	1722470
754	810		101° 57' 07"	" "	7.6	90° 30'	-7.1	-14.7		3246.9	TP	-420	+692	952693	1722721K
754	810				7.5	269° 30'	-7.1	-14.6			TP	-1	-2		
	2639		284° 23' 08"	" "	10.2	-		+10.2	3256.8		BS	-1464	+2196		
	2639				9.7	270° -		+9.7	+9.9		BS	-1	-2		
755	2310		284° 23'	+19.3	10.3	-		-10.3		3246.5		+1281	-1922	952509	1723014
756	1980		" "	" "	10.3	-		-10.3		3246.5		+1098	-1648	952326	1723288
757	1650		" "	" "	10.0	-		-10.0		3246.8		+915	-1373	952143	1723562
758	1320		" "	" "	10.2	-		-10.2		3246.6		+732	-1098	951960	1723838
JL	1184		284° 58' 26"	" "	9.8	-		-9.8		3247.0	JL	+667	-978	951895	1723988
759	990		284° 23'	" "	10.2	-		-10.2		3246.6		+549	-824	951777	1724112
760	660		" "	" "	9.0	-		-9.0		3247.8		+366	-549	951594	1724382
761	330		" "	" "	8.0	-		-8.0		3248.8		+183	-275	951444	1724661
762	0				5.0	-		-5.0		3251.8	X	0	0	951228	1724936

y = 951,920 x - 1723,940
Bridge

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTICE CHECKED BY		LINE NO.	PAGE				
7.5.84		B. Catcamp		R. Trowbridge		6834		R.T.C. CT		2	99				
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER					
OREGON		SISTERS - 15'		OREGON		DESCHUTES				L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3256.8						
763	330		104° 30'	+19.3°	5.8	89° 30'	+2.9	-2.9		3253.9		-184	+274	951044	1725210
#	373		102° 43' 19"	"	5.0	89° 30'	+3.3	-1.7		3255.1	#	-198	+316	951030	1725252 # 4 way Inter
764	660		104° 30'	"	6.1	89° 30'	+5.8	-0.3		3256.5		-367	+548	950861	1725184
765	990		"	"	6.8	89° 30'	+8.6	+1.8		3258.6		-551	+823	950677	1725759
766	1320		"	"	7.9	89° 30'	+11.5	+3.6		3260.4		-734	+1097	950494	1726033
767	1650		"	"	8.7	89° 30'	+14.4	+5.7		3262.5		-918	+1371	950310	1726307
768	1980		"	"	9.6	89° 30'	+17.3	+7.7		3264.5		-1101	+1645	950127	1726281
769	2310		"	"	11.2	89° 30'	+20.2	+9.0		3265.8		-1285	+1920	949943	1726854
770	2640		104° 31' 20"	+19.3	14.0	89° 28'	+24.6	+10.6		3267.7	TP	-1469	+2193	949758	1727127
770	2640				14.9	270° 34'	+26.1	+11.2	+10.93		TP	-1	-2		
	2641		285° 31' 50"	"	+14.6	90° 04'	+3.1	+17.7	3285.1		BS	-1508	+2168		
	2641				+14.1	269° 56'	+3.1	+17.2	+17.93		BS	-1	-2		
771	2310		285° 35'	"	8.9	90° 10'	-6.7	-15.6		3269.5		+1321	-1895	949570	1727396
772	1980		"	"	9.0	90° 10'	-5.8	-14.8		3270.3		+1132	-1624	949381	1727669
773	1650		"	"	7.5	90° 10'	-4.8	-12.3		3272.8		+944	-1354	949193	1727939
774	1320		"	"	6.9	90° 10'	-3.8	-10.7		3274.4		+755	-1083	949004	1728210
775	990		"	"	+19.3	8.3	-	-8.3		3276.8		+566	-812	948885	1728481
#	957		286° 16' 48"	"	8.0	-	-	-8.0		3277.1	#	+557	-778	948802	1728515 # 4 way Inter
776	660		285° 35'	"	7.4	-	-	-7.4		3277.7		+377	-541	948626	1728752
777	330		"	"	6.4	-	-	-6.4		3278.7		+189	-271	948438	1729022

3-951,010 x -1,725,25
4 way Inter

4-948,865 x 1,728,500
Creek crossing

Geosource Inc.

DATE	7.5.84	INSTRUMENT MAN	B. Cotnam	ROD MAN	R. Trowbridge	PARTY NUMBER	6834	NOTES CHECKED BY	R.T.C. CT	LINE NO.	2	PAGE	100
AREA	OREGON	TOPO MAP	Sisters 15'	STATE	ORE.	COUNTY	Deschutes	TWP		RANGE		PPM	
										PARTY MANAGER		L.O. Davis	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3285.1						
778	0				5.0	-		-5.0		3280.1	X	0	0	948249	1729293
779	330		105° 25'	+19.3°	5.6	89° 50'	+1.0	-4.6		3280.5		-188	+271	948061	1729564
780	660		" "	" "	5.7	89° 50'	+1.9	-3.8		3281.3		-376	+543	947873	1729836
781	990		" "	" "	5.3	89° 50'	+2.9	-2.4		3282.7		-564	+814	947685	1730107
#	1229		105° 12 54	" "	5.3	89° 50'	+3.6	-1.7		3283.4	#	-696	+1013	947553	1730306 # 947,600 x -1730,310 CRIPAK CROSSING
782	1320		105° 25'	+19.3°	6.0	89° 50'	+3.8	-2.2		3282.9		-752	+1085	947490	1730378
783	1650		" "	" "	8.8	89° 50'	+4.8	-4.0		3281.1		-940	+1356	947309	1730649
784	1980		" "	" "	11.9	89° 50'	+5.8	-6.1		3279.0		-1128	+1628	947121	1730621
785	2310		105° 25 28	" "	12.6	89° 54'	+4.0	-8.6		3276.6	TP	-1316	+1899	946932	1731190
785	2310		" "	" "	13.7	270° 08'	+5.4	-8.3	-8.3		TP	-1	-2		
	1979		284° 09 16	" "	10.0	TH	-9.9	+0.1	3276.5		BS	-1091	+1651		
	1979		" "	" "	9.7	TH	-9.9	-0.2	3276.5		BS	-1	-2		
786	1650		284° 10	+19.3°	10.7	TH	+8.3	-2.5		3274.0		+910	-1376	946750	1731463
787	1320		" "	" "	11.1	TH	+6.6	-4.5		3272.0		+728	-1101	946568	1731738
#	1081		284° 44 04	" "	6.6	-		-6.6		3269.9	#	+605	-896	946445	1731943 # 946,480 x -1731,735 JAY INTER.
788	990		284° 10	" "	7.1	-		-7.1		3269.4		+546	-826	946386	1732013
JC	690		285° 06 09	" "	9.1	TH	+3.5	-5.7		3270.8	JC	+390	-569	946230	1732270 JC BRIDGE 946,300 x -1732,265
789	660		284° 10	" "	6.0	-		-6.0		3270.5		+364	-551	946204	1732288
790	330		" "	" "	7.5	-		-7.5		3269.0		+182	-275	946022	1732564
Bm	49		318° 27 40	" "	4.9	-		-4.9		3271.6	Bm	+45	-19	945885	1732820 Bm horiz. ELEV 3271.8 COR. -26 x -46

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.5.84		B. Cotcamp		R. Trowbridge		6834		R.T. CT		2		101			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Sisters - 15' - Brkn. Top D		OREGON		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3276.5						
791	0				5.0	-		-5.0		3271.5	π	0	0	945840	1732839
792	330		116° 20'	+19.3	6.5	89° 50'	+1.0	-5.5		3271.0		-236	+231	945604	1733070
793	660		- -	- -	7.0	89° 50'	+1.9	-5.1		3271.4		-472	+462	945368	1733301
794	990		116° 55'	- -	7.2	89° 50'	+2.9	-4.3		3272.2		-715	+685	945125	1733524
795	1317		119° 48' 23"	- -	7.3	89° 50'	+3.8	-3.5		3273.1	TP	-996	+862	944844	1733701 Across
795	1317				11.0	276 20'	+7.7	-3.3	-3.4 1/2		TP				Station
	2360		337° 04' 16"	+19.3	13.2	90° 22'	+15.1	+28.3	3301.1		BS	-2355	+149		
	2360				12.7	269° 38'	+15.1	+27.8	+28.08		BS				
796	2026		337° 19'	- -	9.6	90° 30'	-17.7	-27.3		3273.8		+2022	-120	944511	1733730
797	1696		337° 14'	- -	11.5	90° 30'	-14.8	-26.3		3274.8		+1693	-103	944182	1733747
798	1366		- -	- -	10.3	90° 30'	-11.9	-22.2		3278.9		+1364	-83	943853	1733767
799	1036		336° 56'	- -	10.0	90° 30'	-9.0	-19.0		3282.1		+1034	-68	943523	1733782 SISTERS 15' ↑
800	706		336° 50'	+19.3	10.1	90° 30'	-6.2	-16.3		3284.8		+704	-48	943194	1733802 BROKEN TOP 15' ↓
801	376		336° 35'	- -	10.1	90° 30'	-3.3	-13.4		3287.7		+375	-27	942864	1733823
802	61		13° 20'	- -	8.8	90° 30'	-0.5	-9.3		3291.8		+51	+33	942540	1733883
≠	73		75° 51' 05"	- -	7.9	90° 30'	-0.6	-8.5		3292.6	≠	-7	+73	942482	1733923 942.480 x - 1733.950 4 WAY JAW.
π	0				5.0	-		-5.0		3296.1	π	0	0	942489	1733850
803	333		70° 40'	+19.3	7.0	92° 50'	-16.4	-23.4		3277.7		±0	+333	942489	1734183
804	662		72° 00'	- -	7.0	92°	-23.1	-30.1		3271.0		-15	+662	942474	1734512

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.5.84		D. Cotcamp		R. Trowbridge		6834		R.N. CT		2		102			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		BROKENTOP 15'		OREGON		DESCUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3301.1						
805	990		72° 26'	+19.3	11.2	92°	-34.5	-45.7		3255.4		-30	+990	942459	1734840
806	1320		72° 00'	--	5.9	92°	-46.0	-51.9		3249.2		-30	+1320	942459	1735170
807	1650		71° 38'	--	7.9	91° 30'	-43.2	-51.1		3250.0		-27	+1650	942462	1735500
808	1980		71° 31'	--	9.9	91° 10'	-40.3	-50.2		3250.9		-28	+1980	942461	1735830
809	2312		71° 38' 02"	--	7.6	91° 10'	-47.1	-54.7		3246.4	TP	-38	+2311	942451	1736161
809	2312				7.5	268° 50'	-47.1	-54.6			TP				
	989		250° 00' 52"	+19.3	13.5	89°	-17.3	-3.8			BS	+12	+989		
	989				7.6	270° 40'	-11.5	-3.9	3242.5		BS				
810	660		250° 30'	--	10.1	89° 10'	+9.6	-0.5		3242.0		-2	-660	942461	1736490
811	330		251° 30'	--	5.5	89° 10'	+4.8	-0.7		3241.8		+5	-330	942468	1736820
812	0				5.0	-		-5.0		3237.5	π	0	0	942463	1737150
813	330		74° 32'	+19.3	9.2	90° 10'	-1.0	-10.2		3232.3		-22	+329	942441	1737479
814	660		" "	--	9.8	90° 10'	-1.9	-11.7		3230.8		-44	+659	942449	1737809
815	990		" "	--	12.3	90° 10'	-2.9	-15.2		3227.3		-66	+988	942397	1738138
816	1320		" "	--	10.3	90° 10'	-3.8	-14.1		3228.4		-88	+1317	942375	1738467
#	1526		74° 41' 36"	--	8.0	90° 10'	-4.4	-12.4		3230.1	#	-106	+1522	942357	1738672
817	1650		74° 30'	--	7.0	90° 10'	-4.8	-11.8		3230.7		-109	+1646	942354	1738796
818	1979		74° 30' 52"	--	3.6	90° 16'	-9.2	-12.8		3229.8	TP	-138	+1974	942325	1739124
818	1979				3.3	269° 44'	-9.2	-12.5	12.73		TP				

BROKEN TOP 15' ↑
Tumalo Dam 1/2 ↓

4 - 942350 x -1.738, 700
4 w Ay Int

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.5.84		B. Cotcamp		R. Trowbridge		6834		R.T.C. CT		2		103			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
OREGON		Tumalo Dam 7 1/2		OREGON		DESCHUTES								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3229.8					
	2309		251° 40' 40"	+19.7	14.2	89° 32'	-18.8	-4.6	3225.0		BS	-56	+2308		
	2309		05"		13.9	270° 28'	-18.8	-4.9		-4.8	BS				
819	1980		251° 47'	"	9.8	89° 30'	+17.3	+7.5		3232.5		+51	-1979	942,320	1,739,453
820	1650		"	"	7.0	89° 30'	+14.4	+7.4		3232.4		+43	-1649	942,312	1,739,783
821	1320		"	"	6.2	89° 30'	+11.5	+5.3		3230.3		+34	-1320	942,303	1,740,112
822	990		251° 47'	+19.7	8.9	89° 20'	+11.5	+2.6		3227.6		+26	-990	942,295	1,740,442
823	660		"	"	9.3	89° 20'	+7.7	-1.6		3223.4		+17	-660	942,286	1,740,772
824	330		"	"	8.7	89° 20'	+3.8	-4.9		3220.1		+9	-330	942,278	1,741,102
825	0				5.0	-		-5.0		3220.0	TP	0	0	942,269	1,741,432
826	330		66° 48'	+19.7	10.2	-		-10.2		3214.8		+20	+329	942,269	1,741,761
827	660		"	"	8.8	-		-8.8		3216.2		+40	+659	942,309	1,741,091
828	990		"	"	8.8	-		-8.8		3216.2		+60	+988	942,321	1,742,420
II	1067		66° 20' 30"	"	6.0	269° 50'	-3.1	-9.1	9.0	3216.0	TP	+74	+1064	942,343	1,742,496
II	1067				5.8	90° 10'	-3.1	-8.9		TP					

E.O.L. line #
 3 - 942,305 x - 1,742,530
 5 - INTERSECT
 EL. 3215.0