

HIGH RESOLUTION DATA

Geosource Inc.

D.S.

82	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H. / D.S.	LINE NO. 6 West	PAGE 1
	TOPO MAP LONG RIDGE S.W. - 7 1/2'	STATE UTAH	COUNTY MILLARD	TWP RANGE	PPM	PARTY MANAGER L.O. Davis

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	
U.S. Dept. of Interior - U.S.G.S.		Bench mark source 1972					ELEVATION	4724.0	R				SCALED →	Y=272,330 X=1,506,495 U.S.G.S. BM EL. 4724	
1906		207° 07' 43" -180°	+16.5°	10.8	84	+9.5	+20.3	4744.2	BS	+1380	+1315				
1906				10.5	84 270	+9.5	+20.0	4744.2	BS	+3	-3				
660		176° 20'	+16.5°	6.7	91°	-11.5	-18.2	4726.0		-644	-147	273,069	1,507,660		
330		" "	" "	4.7	91°	-5.8	-10.5	4733.7		-322	-73	273,331	1,507,734		
0				5.2	-	-	-5.2	4739.0	T	0	0	273,713	1,507,807		
330		356° 27'	+16.5°	4.7	89° 20'	+3.8	+0.9	4743.3		+322	+74	274,035	1,507,881		
660		" "	" "	4.5	89° 20'	+7.7	+3.2	4747.4		+643	+148	274,356	1,507,955		
6		990	" "	10.9	89° 20'	+11.5	+0.6	4744.8		+965	+222	274,678	1,508,029		
7		1320	" "	7.0	89° 20'	+15.4	+8.4	4752.6		+1286	+296	274,999	1,508,103		
7		1503	356° 13' 47"	" "	8.4	89° 20'	+17.5	+9.1	4753.3	T	+1466	+331	275,179	1,508,138	Y=275,175 X=1,508,175 T-RO WEST
8		1650	356° 27'	+16.5°	12.6	89° 30'	+74.4	+1.8	4746.0		+1608	+370	275,321	1,508,177	
9		1978	356° 28' 47"	" "	6.9	89° 30'	+17.3	+10.4		TP	+1927	+444	275,643	1,508,249	
9		1978			6.8	270° 30'	+17.3	+10.5	4754.7	TP	+3	-2			
		1979	176° 28' 47" +180°	+16.5°	5.8	84	+9.9	+15.7	4770.3	BS	+1928	+445			
		1979			5.6	84 270°	+9.9	+15.5	4770.3	BS	+3	-2			
10		1650	176° 33'	+16.5°	13.0	-	-13.0	4757.3		-1607	-373	275,967	1,508,319		
11		1320	" "	" "	11.0	-	-11.0	4759.3		-1286	-298	276,288	1,508,394		
12		990	" "	" "	8.3	-	-8.3	4762.0		-964	-224	276,610	1,508,468		
13		660	" "	" "	7.5	-	-7.5	4762.8		-643	-149	276,931	1,508,543		
Bm		532	171° 14' 36"	" "	4.7	-	-4.7	4765.6	Bm	-527	-72	277,047	1,508,620	Y=277,030 X=1,508,600 U.S.G.S. BM EL. 4766 49-PL. 1972	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11-16-82		B. Cotcamp		D. Hamilton		6834		A.H. / D.S.		6 West	2						
AREA		TOPO MAR.		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
UTAH		Long Ridge S.W. - 7 1/2		UTAH		MILLARD					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		
									4770.3								
14	330		176° 33'	+16.5°	6.5	-		-6.5		4763.8		-321	-75	277,253	1,508,617		
15	0				5.2	-		-5.2		4765.1	π	0	0	277,574	1,508,692		
16	330		10° 39'	+16.5°	9.4	89° -	+5.8	-3.6		4766.7		+294	+151	277,868	1,508,841	around corner	
17	659		15° 01'	" "	8.3	89° -	+11.5	+3.2		4773.5		+562	+344	278,136	1,509,036	" "	
18	987		16° 31'	" "	3.7	89° -	+17.2	+13.5		4783.8		+828	+538	278,402	1,509,230	" "	
19	1314		14° 00'	" "	5.9	88° 50'	+26.8	+20.9		4791.2		+1132	+667	278,706	1,509,359	" "	
20	1621		09° 21'	" "	8.8	88° 40'	+37.7	+28.9		4799.2		+1459	+707	279,033	1,509,399	through corner	
21	1926		05° 16' 56"	+16.3°	6.8	88° 40'	+44.8	+38.0			TP	+1790	+708	279,366	1,509,398	" "	
21	1926				6.9	271° 20'	+44.8	+37.9		4808.2	TP	+2	-2				
	1977		164° 53' 16" + 180°	+16.3°	9.7	91° 10'	+40.3	+50.0			BS	+1970	+41				
	1977				9.8	268° 50'	+40.3	+50.1	4858.3		BS	+2	-2				
22	1648		164° 54'	+16.3°	10.0	91° 10'	-33.6	-43.6		4814.7		-1648	-35	279,696	1,509,402		
23	1319		165° 01'	" "	13.0	91° 10'	-26.9	-39.9		4818.4		-1319	-30	280,025	1,509,407		
24	990		165° 03'	" "	9.3	91° 10'	-20.2	-29.5		4828.8		-990	-23	280,344	1,509,414		
25	660		165° 24'	" "	6.4	91° 10'	-13.4	-19.8		4838.5		-660	-20	280,684	1,509,417		
26	330		166° 19'	" "	6.3	91° 10'	-6.7	-13.0		4845.3		-330	-15	281,014	1,509,422		
27	0				5.2	-		-5.2		4853.1	π	0	0	281,344	1,509,437		
28	330		350° 04'	+16.3°	5.5	-		-5.5		4852.8		+328	+37	281,672	1,509,474		
29	660		" "	" "	7.3	TH	+3.3	-4.80		4854.3		+656	+73	282,000	1,509,510		
Bm	754		355° 11' 42"	" "	2.3	-		-2.3		4856.0	0m	+739	+150	282,083	1,509,587	4-282,095 x -1,509,575 U.S.G.S BM EL. 4856.0 48 DEC 1972	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11-16-82		B. Cotcamp		D. Hamilton		6834		D.V. P.S.		6west	3						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
UTAH		Long Ridge S.W. - 7 1/2	UTAH	Millard					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		
									4858.3								
30	990		350 04	+16.3	11.4	89° 10'	+14.4	+3.0		4861.3		+984	+110	282,328	1,509,547		
31	1320		" "	" "	11.0	89° 10'	+19.2	+8.2		4866.5		+1312	+146	282,656	1,509,583		
32	1650		" "	" "	10.0	89° 10'	+24.0	+14.0		4872.3		+1640	+183	282,984	1,509,620		
33	1980		" "	" "	9.1	89° 10'	+28.8	+19.7		4878.0		+1968	+220	283,312	1,509,657		
34	2310		350 04 05 "	+16.3	7.7	89° 10'	+33.6	+25.9			TP	+2296	+256	283,643	1,509,691		
34	2310				7.6	270 50'	+33.6	+26.0		4884.3	TP	+3	-2				
	1319		169° 48' 23" +180	+16.3	8.7	90° 40'	+15.4	+24.1	4908.4		BS	+1311	+140				
	1319				8.7	268 26'	+15.4	+24.1			BS	+2	-2				
35	990		169° 59'	+16.3	10.0	90° 30'	-8.6	-78.6		4889.8		-984	-108	283,972	1,509,721		
36	660		" "	" "	7.0	90° 30'	-5.8	-72.8		4895.6		-656	-72	284,300	1,509,757		
37	330		" "	" "	5.9	90° 30'	-2.9	-8.8		4899.6		-328	-36	284,628	1,509,793		
38	0				5.2	-		-5.2		4903.2	TP	0	0	284,956	1,509,829	LAST STA. ON ROAD	
39	330		20° 17'	+16.3	5.9	90° 10'	-1.0	-6.9		4901.5		+265	+197	285,221	1,510,026	CROSS COUNTRY	
40	660		19° 46'	" "	7.1	90° 10'	-1.9	-9.0		4899.4		+534	+389	285,490	1,510,218	" "	
41	990		19° 32'	" "	12.1	90° 10'	-2.9	-15.0		4893.4		+803	+580	285,759	1,510,409	" "	
42	1320		19° 23' 13"	" "	11.7	90° 20'	-7.7	-19.4		4889.0	TP	+1072	+770	286,030	1,510,597	" "	
42	1320				11.7	269° 40'	-7.7	-19.4			TP	+2	-2				
	2643		199 11 41 -180	+16.3	9.7	89° 30'	-23.1	-73.4			BS	+2152	+1535				
	2643				9.8	270 30'	-23.1	-73.3	4875.7		BS	+2	-2				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-16-82		B. Cotcamp		D. Hamilton		6834		D.H. / D.S.		6 west		4			
AREA		TOPO MAR		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WTAM		LONG E. OGE S.W. - 7 1/2'		WTAM		MILLARD								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
									4875.7						
43	2313		199° 12'	+16.3°	10.1	89° 30'	+20.2	+10.1		4885.8		-1883	-1343	286,301	1,510,787
44	1983		" "	" "	10.3	89° 30'	+17.3	+7.0		4882.7		-1614	-1152	286,570	1,510,978
45	1653		" "	" "	13.5	89° 46'	+6.7	-6.8		4868.9		-1346	-960	286,838	1,511,170
46	1326		" "	" "	9.8	89° 40'	+7.7	-2.1		4873.6		-1080	-770	287,104	1,511,360
47	997		199° 12'	+16.3°	6.3	89° 40'	+5.8	-0.5		4875.2		-812	-579	287,372	1,511,551
48	667		" "	" "	4.0	89° 40'	+3.9	-0.1		4875.6		-543	-387	287,641	1,511,743
49	336		197° 14'	" "	3.6	89° 40'	+2.0	-1.6		4874.1		-280	-186	287,904	1,511,944
50	25		272° 59'	" "	4.3	89° 40'	+0.1	-4.2		4871.5		+8	-24	288,192	1,512,106
TP	0				5.2	-		-5.2		4870.5	TP	0	0	288,184	1,512,130
Bm	312		322° 04' 44"	+16.3°	5.3	89°	+5.5	+0.2		4875.9	Bm	+290	-115	288,474	1,512,015
51	334		351° 38'	" "	7.2	89° 40'	+1.9	-5.3		4870.4		+331	+46	288,575	1,512,176
52	664		352° 50'	" "	8.2	89° 40'	+3.9	-4.3		4871.4		+656	+105	288,840	1,512,235
53	994		353° 07'	" "	8.5	89° 40'	+5.8	-2.7		4873.0		+981	+163	289,105	1,512,293
54	1324		353° 18'	" "	8.7	89° 40'	+7.7	-1.0		4874.7		+1305	+221	289,489	1,512,351
55	1654		353° 19'	+16.3°	8.0	89° 40'	+9.6	+1.6		4877.3		+1631	+276	289,815	1,512,406
56	1984		353° 27'	" "	7.8	89° 40'	+11.5	+3.7		4879.4		+1955	+336	290,139	1,512,466
57	2314		353° 32'	" "	9.2	89° 40'	+13.5	+4.3		4880.0		+2280	+395	290,464	1,512,525
58	2643		353° 31' 47"	+16.1°	5.0	89° 50'	+7.7	+2.7			TP	+2606	+442	290,792	1,512,570
58	2643				5.1	270° 10'	+7.7	+2.6		4878.3	TP	+2	-2		

OFFROAD ACROSS FROM STA. 50
 Y=288,475 X=1,512,006
 U.S.G.S Bm EL. 4876.0
 46 LRC 1972

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
11-16-82		D. Hamilton		B. Cotcamp		6834		D.H. / D.S.		6	5					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Utah		Long Ridge S.W. 7 1/2		Utah		Millard					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	
										4878.3						
	2640		173° 52' 55"	+16.1 ⁰	10.1	90° 10'	+7.7	+17.8	4896.0		BS	+2600	+458			
	2640				9.9	269° 50'	+7.7	+17.6	4877.3		BS					
59	2310		173° 53'	+16.1 ⁰	-8.3	90° 10'	-6.7	-15.0		4881.0		-2275	-400	291,119	1,512,626	
60	1980		" "	" "	-8.5	90° 10'	-5.8	-14.3		4881.7		-1950	-343	291,444	1,512,683	
61	1650		" "	" "	-8.4	90° 10'	-4.8	-13.2		4882.8		-1625	-286	291,769	1,512,740	
62	1320		" "	" "	-6.8	B.H.	-6.6	-13.4		4882.6		-1300	-229	292,094	1,512,797	
63	990		173° 53'	+16.1 ⁰	-8.6	B.H.	-5.0	-13.6		4882.4		-975	-172	292,419	1,512,854	
64	660		" "	" "	-12.0	-	-	-12.0		4884.0		-650	-114	292,744	1,512,912	Long Ridge S.W. 7 1/2
65	330		" "	" "	-9.1	-	-	-9.1		4886.9		-325	-57	293,069	1,512,969	Long Ridge Res 7 1/2
66	0				-5.2	-	-	-5.2		4890.8	T	0	0	293,394	1,513,026	
67	330		353° 55'	+16.1 ⁰	-6.3	-	-	-6.3		4889.7		+325	+57	293,719	1,513,083	
68	660		" "	" "	-7.2	T.H.	+3.3	-3.9		4892.1		+650	+115	294,044	1,513,141	
69	990		" "	" "	-6.0	89° 40'	+5.8	0.2		4895.8		+975	+172	294,369	1,513,198	
70	1320		353° 55'	+16.1 ⁰	-7.7	89° 40'	+7.7	0.0		4896.0		+1300	+230	294,694	1,513,256	
71	1649		" "	" "	-11.0	89° 40'	+9.6	-1.4		4894.6		+1624	+287	295,018	1,513,313	
B.M.	1677		356° 19' 21"	" "	-12.6	89° 40'	+9.8	-2.8		4893.3	B.M.	+1638	+361	295,035	1,513,385	U.S.G.S. B.M. EL. 4893.0 45 L.Rc 1972 H06124+29 CORR. Y=-25
B.M.	1677				-12.4	270° 20'	+9.8	-2.6	-2.7		B.M.		-2			

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11-17-82		B. Cotcamp		D. Hamilton		6834		D.H./D.S.		6west	6					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
UTAM		LONG RIDGE RESERVOIR-7 1/2		UTAH		MILLARD					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	
										4893.3						
5581			173° 04' 24" +180°	+16.1°	12.9	89° 54'	-9.7	+3.2			BS	+5510	+890			
5581				+12.8		270° 06'	-9.7	+3.1	4896.4		BS	-7	-94			
72	5277		173° 46'	+16.1°	7.7	89° 56'	+6.1	-1.6		4894.8		-5199	-904	295,339	1513,375	
73	4950		" "	" "	8.5	89° 56'	+5.7	-2.8		4893.6		-4877	-848	295,661	1513,431	
74	4620		" "	" "	8.9	89° 56'	+5.4	-3.5		4892.9		-4552	-792	295,986	1513,487	
75	4290		" "	" "	11.5	89° 56'	+5.0	-6.5		4889.9		-4227	-735	296,311	1513,544	
76	3960		173° 46'	+16.1°	8.5	89° 56'	+4.6	-3.9		4892.5		-3901	-679	296,637	1513,600	
77	3630		" "	" "	7.2	89° 56'	+4.2	-3.0		4893.4		-3576	-622	296,962	1513,657	
78	3300		" "	" "	7.7	89° 56'	+3.8	-3.9		4892.5		-3251	-565	297,287	1513,714	
79	2970		" "	" "	8.0	89° 56'	+3.4	-4.6		4891.8		-2926	-509	297,569	1513,770	
80	2640		" "	" "	10.1	89° 50'	+7.7	-2.4		4894.0		-2601	-452	297,937	1513,824	
81	2310		173° 46'	+16.1°	10.9	89° 50'	+6.7	-4.2		4892.2		-2276	-396	298,262	1513,883	
82	1980		" "	" "	8.0	89° 50'	+5.8	-2.2		4894.2		-1951	-339	298,587	1513,940	
83	1650		" "	" "	11.1	89° 50'	+4.8	-6.3		4890.1		-1626	-283	298,912	1513,996	
84	1320		" "	" "	6.3	89° 50'	+3.8	-2.5		4893.9		-1300	-226	299,238	1514,053	
85	990		173° 46'	+16.1°	6.3	89° 50'	+2.9	-3.4		4893.0		-975	-170	299,563	1514,109	
86	660		" "	" "	6.6	89° 50'	+1.9	-4.7		4891.7		-650	-113	299,288	1514,116	
87	330		" "	" "	4.8	89° 50'	+1.0	-3.8		4892.6		-325	-57	300,213	1514,222	
88	0				5.2	-		-5.2		4891.2	X	0	0	300,538	1514,279	

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-17-82		B. Co + camp		D. Hamilton		6834		D.H. / D.S.		6west		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
LITAM		LONG RIDGE Reservoir-7 1/2		LITAM		Millard								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
									4896.4						
89	330		353° 47'	+16.1°	5.7	89° 50'	+1.0	-4.7		4891.7		+325	+57	309,863	1514,336
90	660		" "	" "	6.0	89° 50'	+1.9	-4.1		4892.3		+650	+113	301,188	1514,392
91	990		" "	" "	8.7	89° 50'	+2.9	-5.8		4890.6		+975	+170	301,513	1514,449
92	1320		" "	" "	7.2	89° 50'	+3.8	-3.4		4893.0		+1300	+227	301,838	1514,506
Bm	1357		350° 49' 12"	+16.1°	5.4	89° 50'	+4.0	-1.4		4895.0	Bm	+1347	+164	301,885	1514,493
93	1650		353° 47'	" "	11.2	89° 50'	+4.8	-6.4		4890.0		+1626	+283	302,164	1514,562
94	1980		" "	" "	12.0	89° 50'	+5.8	-6.2		4890.2		+1951	+340	302,489	1514,619
95	2310		" "	" "	6.7	-	-	-6.7		4889.7		+2276	+396	302,814	1514,675
96	2640		" "	" "	5.0	-	-	-5.0		4891.4		+2601	+453	303,139	1514,732
97	2970		353° 47'	+16.1°	3.0	-	-	-3.0		4893.4		+2926	+510	303,464	1514,789
98	3300		" "	" "	12.3	89° 50'	+9.6	-2.7		4893.7		+3251	+566	303,789	1514,845
99	3630		" "	" "	12.5	89° 50'	+10.6	-1.9		4894.5		+3576	+623	304,114	1514,902
100	3960		" "	" "	7.7	89° 56'	+4.6	-3.1		4893.3		+3901	+680	304,439	1514,959
101	4290		353° 47'	+16.1°	6.8	89° 56'	+5.0	-1.8		4894.6		+4226	+736	304,764	1515,015
102	4620		" "	" "	10.0	89° 52'	+10.8	+0.8		4897.2		+4551	+793	305,089	1515,072
103	4950		" "	" "	8.9	89° 52'	+11.5	+2.6		4899.0		+4877	+850	305,415	1515,129
104	5280		353° 47' 42"	" "	7.2	89° 52'	+12.3	+5.1		4901.3	TP	+5201	+907	305,732	1515,190
104	5280				7.5	270° 08'	+12.3	+4.8	+4.9		TP	-7	+4		
	3958		173° 47' 54" +180°	+16.1°	9.2	90° 10'	+11.5	+20.7	4922.0		BS	+3899	+680		
	3958				9.3	269° 50'	+11.5	+20.8			BS	-7	+4		

Y=301,895 X=1,514,450
U.S.G.S B.M. EL. 4895.0
44 LRC 1972

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 11-17-82	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H./D.S.	LINE NO. 6west	PAGE 8
AREA UTAH	TOPO MAP Long Ridge Reservoir-1/2	STATE UTAH	COUNTY MILLARD	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	
									4922.0							
105	3636		173° 50'	+16.1°	8.9	90° 10'	-10.6	-19.5		4902.5		-3576	-626	306,048	1525,248	← error
106	3300		" "	" "	7.3	90° 10'	-9.6	-16.9		4905.1		-3251	-569	306,373	1515,305	
107	2970		" "	" "	7.1	90° 10'	-8.6	-15.7		4906.3		-2925	-512	306,699	1515,362	
Bm	2661		172° 21' 31"	" "	9.7	90° 06'	-4.6	-14.3		4907.7	Bm	-2632	-391	306,992	1515,493	y-306,995 x-1,515,500 U.S.G.S Bm TOPO EL 4907.0 43-REC Bm STAMP-4908.0 1972
108	2640		173° 50'	" "	11.0	90° 04'	-3.1	-14.1		4907.9		-2600	-455	307,024	1515,419	
109	2310		" "	+16.1°	11.3	90° 08'	-5.4	-16.7		4905.3		-2275	-398	307,349	1515,476	
110	1980		" "	" "	9.4	90° 08'	-4.6	-14.0		4908.0		-1950	-342	307,674	1515,532	
111	1650		" "	" "	9.0	90° 08'	-3.8	-12.8		4909.2		-1625	-285	307,999	1515,589	
112	1320		173° 50'	" "	9.6	90° 08'	-3.1	-12.7		4909.3		-1300	-228	308,324	1515,646	
113	990		" "	" "	8.3	90° 08'	-2.3	-10.6		4911.4		-975	-171	308,649	1515,703	
IF	791		174° 08' 23"	+16.1°	6.9	90° 08'	-1.8	-8.7		4913.3	IF	-	-			
114	660		173° 50'	" "	8.8	-	-	-8.8		4913.2		-650	-114	308,974	1515,760	
115	330		" "	" "	7.3	-	-	-7.3		4914.7		-325	-57	309,299	1515,817	
116	0				5.2	-	-	-5.2		4916.8	π	0	0	309,624	1515,874	
117	330		353° 47'	+16.1°	7.9	89° 20'	+3.8	-4.1		4917.9		+325	+57	309,949	1515,931	
118	660		" "	" "	8.9	89° 20'	+7.7	-1.2		4920.8		+650	+113	310,274	1515,987	
119	990		" "	" "	8.9	89° 20'	+11.5	+2.6		4919.4		+975	+170	310,599	1516,044	
120	1320		" "	" "	10.8	89° 20'	+15.4	+4.6		4926.6		+1300	+227	310,924	1516,101	
121	1650		" "	+16.1°	12.1	89° 20'	+19.2	+7.1		4929.1		+1626	+283	311,250	1516,157	
Bm	1858		351° 20' 37"	" "	9.8	89° 20'	+21.6	+11.8		4933.8	Bm	+1842	+241	311,466	1516,115	y-311,500 x-1,516,140 U.S.G.S Bm TOPO EL 4933.0 42 REC 1972 Bm STAMP-4934.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11-17-82	INSTRUMENT MAN B. Cutcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H. / D.S.	LINE NO. 6 west	PAGE 9
AREA UTAH	TOPO MAP LONG RIDGE RESERVOIR-1/2	STATE UTAH	COUNTY MILLARD	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
									4922.0						
122	1980		353° 47'	+16.1°	7.2	89° 30'	+17.3	+10.1		4932.1		+1951	+340	311,575	1516,214
123	2310		" "	" "	8.1	89° 30'	+20.2	+12.1		4934.1		+2276	+396	311,900	1516,270
124	2640		" "	" "	5.1	89° 30'	+23.0	+17.9		4939.9		+2601	+453	312,225	1516,327
125	2970		" "	" "	6.4	89° 30'	+25.9	+19.5		4941.5		+2926	+510	312,550	1516,384
126	3300		" "	" "	7.2	89° 30'	+28.8	+21.6		4943.6		+3251	+566	312,875	1516,440
127	3630		353° 50' 07"	+16.1°	8.7	89° 30'	+31.7	+23.0		4945.0	TP	+3575	+626	313,192	1516,503
127	3630				8.6	270° 30'	+31.7	+23.1			TP	-1	+3		
	4289		173° 43' 28" +180°	+16.1°	12.9	BM	+21.5	+34.4	4979.2		BS	+4226	+732		
	4289				12.6	BM 270°	+21.5	+34.1	4942.2		BS	-1	+3		
128	3960		173° 47'	+16.1°	11.8	90° 20'	-23.0	-34.8		4944.4		-3901	-680	313,510	1516,558
129	3630		" "	" "	10.2	90° 20'	-21.1	-31.3		4947.9		-3576	-623	313,835	1516,615
130	3300		" "	" "	10.1	90° 20'	-19.2	-29.3		4949.9		-3251	-566	314,160	1516,672
131	2970		" "	" "	9.9	90° 20'	-17.3	-27.2		4952.0		-2926	-510	314,485	1516,728
132	2640		173° 47'	" "	7.7	90° 20'	-15.4	-23.1		4956.1		-2601	-453	314,810	1516,785
133	2310		" "	+16.1°	7.4	90° 20'	-13.4	-20.8		4958.4		-2276	-396	315,135	1516,842
134	1980		" "	" "	6.7	90° 20'	-11.5	-18.2		4961.0		-1951	-340	315,460	1516,898
135	1650		" "	" "	8.6	BM	-8.3	-16.9		4962.3		-1626	-283	315,785	1516,955
136	1320		173° 47'	+16.1°	8.3	BM	-6.6	-14.9		4964.3		-1300	-227	316,111	1517,011
137	990		" "	" "	8.1	BM	-5.0	-13.1		4966.1		-975	-176	316,436	1517,068
BM	958		171° 15' 59"	" "	8.7	BM	-4.8	-13.5		4965.7	BM	-950	-123	316,461	1517,115

g-316,445x-1,517,110
 BM U.S.G.S EL. 4965.0
 41 REC 1972

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-17-82		B. Cotcamp		O. Hammon		6834		D.H.		6 West		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		Long Ridge Reservoir-7 1/2		UTAH		MILLARD								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
									4979.2						
138	660		173° 47'	+16.1°	12.0	-		-12.0		4967.2		-650	-113	316,761	1517,125
139	330		" "	" "	8.4	-		-8.4		4970.8		-325	-57	317,086	1517,181
140	0				5.2	-		-5.2		4974.0	π	0	0	317,411	1517,238
141	330		353° 56'	+16.1°	5.6	89°	+5.8	+0.2		4979.4		+325	+57	317,236	1517,295
142	660		" "	" "	9.5	89°	+11.5	+2.0		4981.2		+650	+115	318,061	1517,353
143	990		" "	" "	9.0	89°	+17.3	+8.3		4987.5		+975	+172	318,346	1517,410
144	1320		353° 56'	" "	11.8	89°	+23.0	+11.2		4990.4		+1300	+230	318,711	1517,468
145	1650		" "	+16.1°	6.2	89° 16'	+21.1	+14.9		4994.1		+1625	+287	319,036	1517,525
146	1980		" "	" "	6.7	89° 16'	+25.3	+18.6		4997.8		+1950	+345	319,361	1517,583
147	2310		" "	" "	6.3	89° 16'	+29.6	+23.3		5002.5		+2275	+402	319,686	1517,640
148	2640		353° 56'	" "	8.2	89° 16'	+33.8	+25.6		5004.8		+2600	+460	320,011	1517,698
149	2970		" "	+16.1°	8.8	89° 16'	+38.0	+29.2		5008.4		+2925	+517	320,336	1517,755
150	3300		" "	" "	8.8	89° 16'	+42.2	+33.4		5012.6		+3250	+575	320,661	1517,813
151	3630		" "	" "	9.8	89° 16'	+46.5	+36.7		5015.9		+3574	+632	320,985	1517,870
152	3960		" "	" "	11.5	89° 16'	+50.7	+39.2		5018.4		+3899	+690	321,310	1517,928
153	4290		353° 53'	+16.1°	11.2	89° 16'	+54.9	+43.7		5022.9		+4224	+747	321,635	1517,985
Bm	4466		353° 56' 25"	" "	6.7	89° 20'	+52.0	+45.3		5024.5	TP	+4397	+779	321,800	1518,020
Bm	4466				6.8	270° 40'	+52.0	+45.2			TP	-8	+3		

321,800 x -1.518,020
 U.S.G.S B.M. FL. 5025.0
 40 LRC 1972 HORIZY = 43
 CORR. X = 21'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		D.H.		6 West		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAM		Long Ridge Reservoir - 1/2		UTAM		MILLARD								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
									5024.5						
BS	5432		174° 00' 56" +180	+16.4	7.7	90° 30'	+47.4	+55.1	5079.6		BS	+5342	+982		
BS	5432				7.6	269° 30'	+47.4	+55.0		BS			+1	-2	
154	5278		174° 02'	+16.4	7.0	90° 30'	-46.1	-53.1	5026.5			-5191	-956	321,952	1,518,044
155	4950		" "	" "	9.9	90° 30'	-43.2	-53.1	5026.5			-4868	-896	322,275	1,518,104
156	4620		" "	" "	9.6	90° 30'	-40.3	-49.9	5029.7			-4544	-837	322,599	1,518,163
157	4290		" "	" "	9.0	90° 30'	-37.5	-46.5	5033.1			-4219	-777	322,924	1,518,223
158	3960		174° 02'	+16.4	11.0	90° 30'	-34.6	-45.6	5034.0			-3895	-717	323,248	1,518,283
159	3630		" "	" "	9.8	90° 30'	-31.7	-41.5	5038.1			-3570	-657	323,573	1,518,343
160	3300		" "	" "	8.8	90° 30'	-28.8	-37.6	5042.0			-3245	-598	323,898	1,518,402
161	2970		" "	" "	9.0	90° 30'	-25.9	-34.9	5044.7			-2921	-538	324,222	1,518,462
162	2640		" "	" "	9.9	90° 30'	-23.0	-32.9	5046.7			-2596	-478	324,547	1,518,522
163	2310		174° 02'	+16.4	9.1	90° 30'	-20.2	-29.3	5050.3			-2272	-418	324,871	1,518,582
164	1980		" "	" "	6.9	90° 30'	-17.3	-24.2	5055.4			-1947	-359	325,196	1,518,641
165	1650		" "	" "	8.0	90° 30'	-14.4	-22.4	5057.2			-1623	-299	325,520	1,518,701
166	1320		" "	" "	9.0	90° 30'	-11.5	-20.5	5059.1			-1298	-239	325,845	1,518,761
167	990		174° 02'	+16.4	8.8	90° 30'	-8.6	-17.4	5062.2			-974	-179	326,169	1,518,821
168	660		" "	" "	8.9	90° 30'	-5.8	-14.7	5064.9			-649	-120	326,494	1,518,880
169	330		" "	" "	7.8	90° 30'	-2.9	-10.7	5068.9			-325	-60	326,818	1,518,940
170	0				5.4	-		-5.4	5074.2		X	0	0	327,143	1,519,000

CROSS COUNTRY
Between STATION
153 AND 299

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		D.H.		6 west	12			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
UTAH		Long Ridge Reservoir - 7 1/2		UTAH		MILLARD					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.	
									5079.6					
171	330		353° 59'	+16.4°	4.7	89° 20'	+3.8	0.9		5078.7		+325	+59	327,468 1,519,059
172	660		" "	" "	5.7	89° 20'	+7.7	2.0		5081.6		+649	+119	327,792 1,519,119
173	990		" "	" "	6.1	89° 20'	+11.5	5.4		5085.0		+974	+178	328,117 1,519,178
174	1320		" "	" "	7.5	89° 20'	+15.4	7.9		5087.5		+1298	+238	328,441 1,519,238
175	1650		353° 59'	+16.4°	10.2	89° 20'	+19.2	9.0		5088.6		+1623	+297	328,766 1,519,297
176	1980		" "	" "	11.3	89° 20'	+23.0	11.7		5091.3		+1948	+357	329,091 1,519,357
177	2310		" "	" "	7.1	89° 30'	+20.2	13.1		5092.7		+2272	+416	329,415 1,519,416
178	2640		" "	" "	7.4	89° 30'	+23.0	15.6		5095.2		+2597	+476	329,740 1,519,476
179	2970		" "	" "	8.0	89° 30'	+25.9	17.9		5097.5		+2921	+535	330,064 1,519,535
180	3300		353° 59'	+16.4°	8.2	89° 30'	+28.8	20.6		5100.2		+3246	+595	330,389 1,519,595
181	3630		" "	" "	8.6	89° 30'	+31.7	23.1		5102.7		+3571	+654	330,714 1,519,654
182	3960		" "	" "	9.8	89° 30'	+34.6	24.8		5104.4		+3895	+714	331,038 1,519,714
183	4290 ^{B.S.C.}		" "	" "	11.2	89° 30'	+37.5	26.3		5105.9		+4220	+773	331,363 1,519,773
184	4620		" "	" "	12.1	89° 30'	+40.3	28.2		5107.8		+4544	+833	331,687 1,519,833
185	4950		" "	" "	7.0	89° 34'	+37.4	30.4		5110.0		+4869	+892	332,012 1,519,892
186	5280		353° 58' 51"	+16.4°	7.2	89° 34'	+39.9	+32.7		5112.1	TP	+5193	+951	332,337 1,519,949
186	5280				7.6	270 26'	+39.9	+32.3	+32.53		TP	+1	-2	
	3629		173° 55' 28" +180	" "	3.3	04	+18.1	+21.4	5133.5		BS	+3570	+650	
	3629				3.2	04 270'	+18.1	+21.3			BS	+1	-2	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		D.H.		6 WEST		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		LONG RIDGE Reservoir-7 1/2		UTAH		MILLARD								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
									5133.5						
187	3300		173° 56'	+16.4°	10.9	90° 10'	-9.6	-20.5		5113.0		-3246	-592	332,662	1,520,005
188	2970		" "	" "	10.2	90° 10'	-8.6	-18.8		5114.7		-2922	-533	332,986	1,520,064
189	2640		" "	" "	9.8	90° 10'	-7.7	-17.5		5116.0		-2597	-474	333,311	1,520,123
190	2310		" "	" "	9.1	90° 10'	-6.7	-15.8		5117.7		-2273	-414	333,635	1,520,183
191	1980		173° 56'	+16.4°	8.9	90° 10'	-5.8	-14.7		5118.8		-1948	-355	333,960	1,520,242
192	1650		" "	" "	7.4	90° 10'	-4.8	-12.2		5121.3		-1623	-296	334,285	1,520,301
193	1320		" "	" "	6.3	90° 10'	-3.8	-10.1		5123.4		-1299	-237	334,609	1,520,360
194	990		" "	" "	6.4	90° 10'	-2.9	-9.3		5124.2		-974	-178	334,934	1,520,419
195	660		" "	" "	5.9	90° 10'	-1.9	-7.8		5125.7		-649	-118	335,259	1,520,479
196	330		" "	" "	5.0	90° 10'	-1.0	-6.0		5127.5		-325	-59	335,583	1,520,538
197	0				5.4	-		-5.4		5128.1	X	0	0	335,908	1,520,597
198	330		353° 55'	+16.4°	5.3	89° 30'	+2.9	-2.4		5131.1		+325	+59	336,233	1,520,656
199	660		" "	" "	7.7	89° 30'	+5.8	-1.9		5131.6		+649	+118	336,557	1,520,715
200	990		" "	" "	8.9	89° 30'	+8.6	0.3		5133.2		+974	+177	336,882	1,520,774
201	1320		" "	" "	9.1	89° 30'	+11.5	+2.4		5135.9		+1299	+236	337,207	1,520,833
202	1650		353° 55'	" "	12.2	89° 30'	+14.4	+2.2		5135.7		+1623	+296	337,531	1,520,893
203	1980		" "	+16.4°	12.6	89° 30'	+17.3	+4.7		5138.2		+1948	+355	337,856	1,520,952
204	2310		" "	" "	7.3	89° 46'	+13.4	+6.1		5139.6		+2273	+414	338,181	1,521,011
205	2640		" "	" "	10.2	89° 40'	+15.4	+5.2		5138.7		+2597	+473	338,505	1,521,070

↑
LONG RIDGE Reservoir-7 1/2
WHIRLWIND VALLEY
S.W.-7 1/2 ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		D.H.		6 west		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAM		Whirlwind Valley S.W.-7 1/2		UTAM		Millard								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
									5133.5						
206	2970		353° 55'	+16.4	7.3	89° 40'	+17.3	+10.0		5143.5		+2922	+532	338,830	1,521,129
207	3300		" "	" "	3.0	89° 40'	+19.2	+16.2		5149.7		+3247	+591	339,155	1,521,188
208	3631		353° 54' 43"	" "	8.9	89° 30'	+31.7	+22.8		5156.3	TP	+3572	+650	339,481	1,521,245
208	3631				9.0	270° 30'	+31.7	+22.7			TP	+1	-2		
	5281		174° 00' 21" +180	+16.4	7.7	90° 06'	+9.2	+16.9			BS	+5194	+954		
	5281			+	7.8	208° 54'	+9.2	+17.0		5173.3	BS	+1	-2		
209	4950		173° 59'	+16.4	10.1	90° 06'	-8.7	-18.8		5154.5		-4869	-892	339,807	1,521,305
210	4620		" "	" "	10.0	90° 06'	-8.1	-18.1		5155.2		-4544	-833	340,132	1,521,364
211	4290		" "	" "	9.7	90° 06'	-7.5	-17.2		5156.1		-4220	-773	340,456	1,521,424
212	3960		" "	" "	11.0	90° 06'	-6.9	-17.9		5155.4		-3895	-714	340,781	1,521,483
213	3630		173° 59'	+16.4	10.6	90° 06'	-6.4	-17.0		5156.3		-3571	-654	341,105	1,521,543
214	3300		" "	" "	8.2	90° 10'	-9.6	-17.8		5155.5		-3246	-595	341,430	1,521,602
215	2970		" "	" "	9.2	90° 10'	-8.6	-17.8		5155.5		-2921	-535	341,755	1,521,662
216	2640		" "	" "	8.3	90° 10'	-7.7	-16.0		5157.3		-2597	-476	342,079	1,521,721
#f	2356		164° 07' 01"	+16.4	12.3	90° 10'	-6.9	-19.2		5154.1	#f	-2356	-21	342,320	1,522,176
Bm	2382		161° 37' 14"	" "	13.2	90° 10'	-6.9	-20.1		5153.2	Bm	-2381	+82	342,295	1,522,279
217	2310		173° 59'	" "	13.7	-	-	-13.7		5159.6		-2272	-416	342,404	1,521,781
218	1980		" "	" "	11.0	-	-	-11.0		5162.3		-1948	-357	342,728	1,521,840
219	1650		" "	" "	9.7	-	-	-9.7		5163.6		-1623	-297	343,053	1,521,900

M-342,325 X-1,522,195
 #f-4-WAY INTERSECT
 y-342,300 X-1,522,295
 Bm .U.S.C.M.S. EL. 5153.0
 T-38 1934

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		D.H.		6west		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		Whirlwind Valley S.W.-7 1/2		UTAH		Millard								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
									5173.3						
220	1320		173° 59'	+16.4°	7.9	-		-7.9		5165.4		-1298	-238	343,378	1,521,959
221	990		" "	" "	8.3	-		-8.3		5165.0		-974	-178	343,702	1,522,019
222	660		" "	" "	7.2	-		-7.2		5166.1		-649	-119	344,027	1,522,078
223	330		" "	" "	7.0	-		-7.0		5166.3		-325	-59	344,351	1,522,138
224	0				5.2	-		-5.2		5168.1	π	0	0	344,676	1,522,197
225	330		353° 57'	+16.4°	6.2	89° 30'	+2.9	-3.3		5170.0		+325	+59	345,001	1,522,256
226	660		" "	" "	8.5	89° 30'	+5.8	-2.7		5170.6		+649	+119	345,325	1,522,316
227	990		" "	" "	7.3	89° 30'	+8.6	+1.3		5174.6		+974	+178	345,650	1,522,375
228	1320		" "	" "	8.5	89° 30'	+11.5	+3.0		5176.3		+1299	+237	345,975	1,522,434
229	1650		353° 57'	+16.4°	10.1	89° 30'	+14.4	+4.3		5177.6		+1623	+296	346,299	1,522,493
230	1980		" "	" "	10.4	89° 30'	+17.3	+6.9		5180.2		+1948	+356	346,624	1,522,553
231	2310		" "	" "	12.1	89° 30'	+20.2	+8.1		5181.4		+2272	+415	346,948	1,522,612
232	2640		" "	" "	6.7	89° 40'	+15.4	+8.7		5182.0		+2597	+474	347,273	1,522,671
233	2970		" "	" "	6.0	89° 40'	+17.3	+11.3		5184.6		+2922	+534	347,598	1,522,731
234	3300		353° 57'	+16.4°	6.2	89° 40'	+19.2	+13.0		5186.3		+3246	+593	347,922	1,522,790
235	3630		" "	" "	7.0	89° 40'	+21.1	+14.1		5187.4		+3571	+652	348,247	1,522,849
236	3960		" "	" "	8.9	89° 40'	+23.0	+14.1		5187.4		+3896	+711	348,572	1,522,908
237	4290		" "	" "	8.9	89° 40'	+25.0	+16.1		5189.4		+4220	+771	348,896	1,522,968
238	4620		" "	" "	11.1	89° 40'	+26.9	+15.8		5189.1		+4545	+830	349,221	1,523,027
239	4950		" "	" "	12.6	89° 40'	+28.8	+16.2		5189.5		+4869	+889	349,545	1,523,086

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		B.C.		6 west	16			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
WTAM		WHIRLWIND VALLEY S.W. 1/4		UTAM		MILLARD					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.	
									5173.3					
240	5281		353° 56' 47"	+16.4	11.5	89° 40'	+30.7	+19.2			TP	+5195	+948	349,872 1,523,142
240	5281				11.6	270° 20'	+30.7	+19.1		5192.4	TP	+5195	+948	
	5279		173° 53' 42" +180	+16.4	9.9	-		+9.9			BS	+5194	+943	
	5279				9.8	270° -		+9.8	5202.2		BS			
241	4950		173° 54'	+16.4	9.2	-		-9.2		5193.0		-4870	-885	350,196 1,523,197
242	4620		" "	" "	9.1	-		-9.1		5193.1		-4546	-826	350,520 1,523,256
243	4290		" "	" "	8.8	-		-8.8		5193.4		-4221	-767	350,845 1,523,315
244	3960		" "	" "	7.5	-		-7.5		5194.7		-3896	-708	351,170 1,523,374
245	3630		" "	" "	6.9	-		-6.9		5195.3		-3572	-649	351,494 1,523,433
246	3300		173° 54'	+16.4	5.9	-		-5.9		5196.3		-3247	-590	351,819 1,523,492
247	2970		" "	" "	5.4	-		-5.4		5196.8		-2922	-531	352,144 1,523,551
248	2640		" "	" "	5.8	-		-5.8		5196.4		-2597	-472	352,469 1,523,610
249	2310		" "	" "	5.0	-		-5.0		5197.2		-2273	-413	352,793 1,523,669
250	1980		" "	" "	5.9	-		-5.9		5196.3		-1948	-354	353,118 1,523,728
251	1650		173° 54'	+16.4	6.0	-		-6.0		5196.2		-1623	-295	353,443 1,523,787
252	1320		" "	" "	4.9	-		-4.9		5197.3		-1299	-236	353,767 1,523,846
253	990		" "	" "	4.9	-		-4.9		5197.3		-974	-177	354,092 1,523,905
254	660		" "	" "	5.0	-		-5.0		5197.2		-649	-118	354,417 1,523,964
255	330		" "	" "	4.8	-		-4.8		5197.4		-325	-59	354,741 1,524,023
256	0				5.2	-		-5.2		5197.0	X	0	0	355,066 1,524,082

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		B.C.		6 West		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
LTAM		Whirlwind Valley S.W. - 7 1/2		UTAH		MILLARD								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
									5202.2						
257	330		353° 46'	+16.4°	6.2	-		-6.2		5196.0		+325	+58	355,391	1524,140
258	660		" "	" "	6.3	-		-6.3		5195.9		+650	+117	355,716	1524,199
259	990		" "	" "	7.9	-		-7.9		5194.3		+974	+175	356,040	1524,257
260	1320		" "	" "	9.0	-		-9.0		5193.2		+1299	+233	356,365	1524,315
261	1650		353° 46'	+16.4°	9.7	-		-9.7		5192.5		+1624	+291	356,690	1524,373
262	1980		" "	" "	9.3	-		-9.3		5192.9		+1949	+349	357,015	1524,431
263	2310		" "	" "	6.7	-		-6.7		5195.5		+2274	+408	357,340	1524,490
264	2640		" "	" "	3.5	-		-3.5		5198.7		+2599	+466	357,665	1524,548
265	2970		" "	" "	11.4	89° 50'	+8.6	-2.8		5199.4		+2923	+524	357,989	1524,606
266	3300		353° 46'	+16.4°	12.0	89° 50'	+9.6	-2.4		5199.8		+3248	+582	358,314	1524,664
267	3630		" "	" "	8.1	89° 56'	+4.2	-3.9		5198.3		+3573	+641	358,639	1524,723
268	3960		" "	" "	7.7	89° 56'	+4.6	-3.1		5199.1		+3898	+699	358,964	1524,781
269	4290		" "	" "	7.3	89° 56'	+5.0	-2.3		5199.9		+4223	+757	359,289	1524,839
270	4620		" "	" "	6.6	89° 56'	+5.4	-1.2		5201.0		+4547	+815	359,613	1524,897
271	4950		" "	" "	10.0	89° 56'	+5.8	-4.2		5198.0		+4872	+874	359,939	1524,856
272	5280		353° 41' 26"	+16.4°	8.9	89° 56'	+6.1	-2.8		5199.4	TP	+5198	+925	360,264	1525,004
272	5280				8.8	270° 04'	+6.1	-2.7			TP		-3		
	4290		173° 15' 39" +10	+16.4°	9.8	89° 50'	+12.5	-2.7			BS	+4229	+720		
	4290				+9.7	270° 10'	+12.5	-2.8	5196.6		BS		-3		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-22-82		B. Cotcamp		D. Hamilton		6834		B.C.		6 west		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		Whirlwind Valley S.W. 7 1/2		UTAH		MILLARD								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
									5196.6						
273	3960		173° 20'	+16.4°	10.1	89° 50'	+11.5	+1.4		5198.0		-3903	-669	360,590	1525,052
274	3630		" "	" "	8.1	89° 50'	+10.6	+2.5		5199.1		-3578	-614	360,915	1525,107
275	3300		" "	" "	8.8	89° 50'	+9.6	+0.8		5197.4		-3253	-558	361,240	1525,163
276	2970		" "	" "	11.1	89° 50'	+8.6	-2.5		5194.1		-2927	-502	361,566	1525,219
277	2640		173° 20'	+16.4°	7.8	89° 50'	+7.7	0.1		5196.5		-2602	-446	361,891	1525,275
278	2310		" "	" "	7.4	89° 50'	+6.7	0.7		5195.9		-2277	-391	362,216	1525,330
279	1980		" "	" "	9.3	89° 50'	+5.8	-3.5		5193.1		-1952	-335	362,541	1525,386
280	1650		" "	" "	7.0	89° 50'	+4.8	-2.2		5194.4		-1626	-279	362,867	1524,442
281	1320		" "	" "	8.7	89° 40'	+7.7	7.0		5195.6		-1301	-223	369,192	1525,498
282	990		173° 20'	+16.4°	6.6	89° 40'	+5.8	0.8		5195.8		-976	-167	363,517	1525,554
283	660		" "	" "	5.8	89° 40'	+3.8	2.0		5194.6		-651	-112	363,842	1525,609
284	330		" "	" "	5.9	89° 40'	+1.9	4.0		5192.6		-325	-56	364,168	1525,665
285	0				5.2	-		-5.2		5191.4	π	0	0	364,493	1525,721
286	330		353° 22'	+16.4°	6.0	-		-6.0		5190.6		+325	+56	364,818	1525,777
287	660		" "	" "	8.6	-		-8.6		5188.0		+650	+112	365,143	1525,883
288	990		" "	" "	10.1	-		-10.1		5186.5		+976	+168	365,469	1525,889
289	1320		" "	" "	12.4	-		-12.4		5184.2		+1301	+224	365,794	1524,945
290	1650		353° 22'	" "	8.9	BH	-8.3	7.2		5179.4		+1626	+280	366,119	1526,001
291	1980		" "	" "	11.4	BH	-9.9	21.3		5175.3		+1951	+336	366,444	1526,057
292	2310		" "	" "	11.9	96° 24'	76.1	28.0		5168.6		+2277	+392	366,770	1526,113

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11-22-82	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY BC	LINE NO. 6	PAGE 19
AREA UTAH	TOPO MAP WHIRLWIND VALLEY S.W. 7 1/2	STATE UTAH	COUNTY MILLARD	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
									5196.6						
293	2639		353° 22'	+16.4	15.2	90° 24'	-18.4	-33.6		5163.0		+2601	+448	367,094	1,526,169
Bm	2702		343° 00' 54"	" "	14.0	90° 08'	-6.3	20.3		5176.3	TP	+2702	-28	367,195	1,525,690
Bm	2702				13.9	269° 52'	-6.3	-20.2			TP		-3		
	2022		188° 01' 38" -180°	+16.5+	2.8	89° -	-35.3	-32.5	5143.7		BS	+1839	+839		
	2022				2.6	271° -	-35.3	-32.7	-32.63		BS	-4	+1		
294	1645		174° 27'	+16.5°	11.3	89° -	+28.7	+17.4		5161.1		-1615	-312	367,415	1,526,218
295	1316		174° 46'	" "	11.3	89° -	+23.0	+11.7		5155.4		-1291	-257	367,739	1,526,273
296	987		175° 18'	" "	9.7	89° -	+17.2	+7.5		5151.2		-966	-202	368,064	1,526,328
297	657		175° 29'	" "	8.8	89° -	+11.5	+2.7		5146.4		-643	-136	368,387	1,526,394
298	327		175° 51'	" "	6.6	89° -	+5.7	0.9		5142.8		-319	-70	368,711	1,526,460
299	0				5.2	-		-5.2		5138.5	X	0	0	369,030	1,526,530
300	330		03° 33'	+16.5°	5.7	90° 40'	-3.8	-9.5		5134.2		+310	+113	369,340	1,526,643
301	660		" "	" "	8.1	90° 40'	-7.7	-5.8		5127.9		+620	+226	369,650	1,526,756
302	990		" "	" "	5.0	91° -	-17.3	22.3		5121.4		+930	+339	369,960	1,526,869
303	1320		" "	" "	6.4	91° -	-23.0	29.4		5114.3		+1240	+453	370,270	1,526,983
304	1650		" "	" "	6.9	91° -	-28.8	35.7		5108.0		+1550	+566	370,580	1,527,096
305	1980		03° 32' 46"	+16.5°	7.3	91° -	-34.6	41.9		5101.8	TP	+1860	+679	370,886	1,527,210
305	1980				7.2	269° -	-34.6	41.8			TP	-4	+1		
	3959		182° 51' 43" -180°	+16.5+	15.0	88° 55' 35"	-74.2	59.2	5042.6		BS	+3734	+1312		
	3959				15.0	271° 04' 26"	-74.2	59.2			BS	-4	+1		

y=367,195 x=1,525,690
 Bm U.S.G.S. EL. 5176.0
 15 LRC 1972
 Horiz.
 CORR. y +6
 x -25

LAST STATION OFF ROAD
 FIRST STAT. ON ROAD

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-23-82		B. Cotcamp		D. Hamilton		6834		B.C.		6 west		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		WHIRLWIND VALLEY S.W. 1/4		UTAH		MILLARD								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
									5042.6						
306	3630		182° 56'	+16.5°	10.4	89° -	+63.3	+52.9		5095.5		-3423	-1208	371,193	1,527,315
307	3300		" "	" "	10.1	89° -	+57.6	+47.5		5090.1		-3112	-1098	371,504	1,527,425
308	2970		" "	" "	10.0	89° -	+51.8	+41.8		5084.4		-2801	-988	371,815	1,527,535
309	2640		" "	" "	10.1	89° -	+46.1	+36.0		5078.6		-2490	-878	372,126	1,527,645
310	2310		182° 56'	+16.5°	10.6	89° -	+40.3	+29.7		5072.3		-2178	-769	372,438	1,527,754
311	1980		" "	" "	10.6	89° -	+34.6	+24.0		5066.6		-1867	-659	372,749	1,527,864
Bm	1998		180° 19' 18"	" "	9.7	89° -	+34.9	+25.2		5067.8	Bm	-1912	-578	372,704	1,527,945
312	1650		182° 56'	" "	10.1	89° -	+28.8	+18.7		5061.3		-1556	-549	373,060	1,527,974
313	1320		" "	+16.5°	10.4	89° -	+23.0	+12.6		5055.2		-1245	-439	373,371	1,528,084
314	990		" "	" "	9.9	89° -	+17.3	+7.4		5050.0		-934	-329	373,682	1,528,194
315	660		" "	" "	8.1	89° -	+11.5	+3.4		5046.0		-622	-220	373,994	1,528,303
316	330		" "	" "	6.7	89° -	+5.8	-0.9		5041.7		-311	-110	374,305	1,528,413
317	0				5.2	-		-5.2		5037.4	T	0	0	374,616	1,528,523
318	330		02° 56'	+16.5°	8.2	-		-8.2		5034.4		+311	+110	374,927	1,528,633
319	660		" "	" "	10.8	-		-10.8		5031.8		+622	+220	375,238	1,528,743
320	990		" "	" "	10.2	B4	-5.0	+5.2		5027.4		+934	+329	375,550	1,528,852
321	1320		02° 56'	" "	11.4	B4	-6.6	+8.0		5024.6		+1245	+439	375,861	1,528,962
322	1650		" "	" "	12.0	90° 20'	-9.6	+21.6		5021.0		+1556	+549	376,172	1,529,072
323	1980		" "	" "	12.4	90° 20'	-11.5	+23.9		5018.7		+1867	+659	376,438	1,529,182

y-372,700 x-1,527,910
Bm-U.S.G.S EL. 5067.0
16 DEC 1972

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11-23-82	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER L834	NOTES CHECKED BY B.C.	LINE NO. 6 west	PAGE 21
AREA UTAH	TOPO MAP Whirlwind Valley S.W. 7 1/2	STATE UTAH	COUNTY Millard	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
									5042.6						
324	2310		02° 56'	+16.5	11.0	90° 20'	13.4	24.4		5018.2		+2178	+769	376,794	1,529,292
325	2640		" "	" "	10.1	90° 20'	15.4	25.5		5017.1		+2490	+878	377,106	1,529,401
Bm	2686		04° 17' 03"	" "	9.8	90° 20'	15.6	25.4		5017.2	Bm	+2506	+951	377,122	1,529,474
326	2970		02° 56'	" "	8.3	90° 20'	17.3	25.6		5017.0		+2801	+988	377,417	1,529,511
327	3300		" "	" "	6.9	90° 20'	19.2	26.1		5016.5		+3112	+1098	377,728	1,529,621
328	3630		" "	" "	4.2	90° 20'	21.1	25.3		5017.3		+3423	+1208	378,039	1,529,731
329	3961		02° 55' 53"	" "	10.9	90° 12'	13.8	24.7		5017.9	TP	+3735	+1318	378,347	1,529,842
329	3961				10.8	269° 48'	13.8	24.6			TP	-4	+1		
BS	3959		183° 03' 49"	+16.5	14.8	90° 10'	11.5	+26.3	5044.2		BS	+3730	+1326		
BS	3959			+14.9	14.9	269° 50'	11.5	+26.4			BS	-4	+2		
330	3630		183° 08"	+16.5	8.3	90° 16'	16.9	25.1		5019.1		-3419	-1220	378,654	1,529,950
331	3300		" "	" "	9.0	90° 16'	15.4	24.4		5019.8		-3108	-1109	378,965	1,530,061
332	2970		" "	" "	6.7	90° 20'	17.3	24.0		5020.2		-2797	-998	379,276	1,530,172
sec. corner	2662		181° 45' 08"	" "	8.0	90° 20'	15.5	23.5		5020.7	Sec. corner	-2528	-834	379,545	1,530,336
333	2640		183° 08"	+16.5	8.1	90° 20'	15.4	23.5		5020.7		-2487	-887	379,586	1,530,283
334	2310		" "	" "	7.8	90° 20'	13.4	21.2		5023.0		-2176	-776	379,897	1,530,394
335	1980		" "	" "	7.6	90° 20'	11.5	19.1		5025.1		-1865	-665	380,208	1,530,505
336	1650		" "	" "	8.2	90° 20'	9.6	17.8		5026.4		-1554	-554	380,519	1,530,616
337	1320		" "	" "	8.3	90° 20'	7.7	16.0		5028.2		-1243	-444	380,830	1,530,726

377,115 X-1,529,455
U.S.G.S Bm EL. 5017.0
17 APR 1972

379,555 X-1,530,340
+ SEC. CORNER EL. 5020.0
HALF

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11-23-82		B. Cotcamp		D. Hamilton		6834		B.C.		6west	22				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
UTAH		WHIRLWIND VALLEY S.W.-7 1/2	UTAH	MILLARD				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
									5044.2						
338	990		183° 08'	+16.5°	7.9	90° 20'	-5.8	-13.7		5030.5		-932	-333	381,141	1,530,837
339	660		" "	" "	6.9	90° 20'	-3.8	-10.6		5033.6		-622	-222	381,451	1,530,948
340	330		" "	" "	6.0	90° 20'	-1.9	-7.9		5036.3		-311	-111	381,762	1,531,059
341	0				5.2			-5.2		5039.0	TP	0	0	382,073	1,531,170
342	330		03° 03'	+16.5°	6.0	89° 30'	+2.9	-3.1		5041.1		+311	+110	382,384	1,531,280
343	660		" "	" "	7.5	89° 30'	+5.8	-1.7		5042.5		+622	+221	382,695	1,531,391
344	990		" "	" "	8.3	89° 30'	+8.6	+0.3		5044.5		+933	+331	383,006	1,531,501
345	1320		" "	" "	10.0	89° 30'	+11.5	+1.5		5045.7		+1244	+442	383,317	1,531,612
346	1650		03° 03'	+16.5°	6.8	89° 40'	+9.6	+2.8		5047.0		+1555	+552	383,628	1,531,722
347	1980		" "	" "	7.8	89° 40'	+11.5	+3.7		5047.9		+1866	+663	383,939	1,531,833
348	2310		" "	" "	9.3	89° 40'	+13.4	+4.1		5048.3		+2177	+773	384,250	1,531,943
349	2640		" "	" "	6.8	89° 46'	+10.7	+3.9		5048.1		+2488	+883	384,561	1,532,053
350	2970		" "	+16.5°	7.6	89° 46'	+12.1	+4.5		5048.7		+2799	+994	384,872	1,532,164
351	3300		03° 03'	" "	9.8	89° 46'	+13.4	+3.6		5047.8		+3110	+1104	385,183	1,532,274
352	3630		" "	" "	7.3	89° 50'	+10.6	+3.3		5047.5		+3421	+1215	385,494	1,532,385
353	3960		" "	" "	9.3	89° 50'	+11.5	+2.2		5046.4		+3732	+1325	385,805	1,532,495
BM	926		10° 42' 24"	" "	1.3			-1.3		5042.9	TP	+824	+423	382,895	1,531,595
BM	926				3.9	T.H.	+4.6	-1.3			TP	-2	+2		

E.O.L Line #6west
 Y-382,895 X-1,531,595
 U.S.G.S BM EL. 5042.0
 18 LRC 1972 Horiz. = 22
 COR. x = +8'