

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
10-28-85		B. Cotcamp		B. SALONAR		6834		D.S.		8	1			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
UTAH		ORANGE CLIFFS-15'		UTAH	GARFIELD					W. Cassidy				
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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
K. U.S.G.S.		TRI-STA	LANDS END	1953						7151.0	K			(Scale 000) Y-525,455 X-2,394,345
K	0				+4.6	H.		+4.6	7155.6		K	0	0	K. U.S.G.S. LANDS END Elev. 7151.0
1	909	893.8	218 26	+12.7	9.0	105 30	-165.7	-174.7		6980.9		-561	-696	524,894 2,393,649
2	827	812.3	246 -	-	3.9	100 50	-155.4	-159.3		6996.3		-242	-776	525,213 2,393,569
3	825	805.3	263 29	-	5.6	102 32	-179.0	-184.6		6971.0		+87	-801	525,542 2,393,544
4	963	943.1	283 22	-	5.3	101 40	-194.7	-200.0		6955.6		+414	-847	525,869 2,393,498
5	1162	1144.4	297 24	-	11.8	100 -	-201.8	-213.6		6942.0		+737	-875	526,192 2,393,470
6	1398	1380.4	307 30	+12.7	5.6	99 06	-221.1	-226.7		6928.9		+1061	-884	526,516 2,393,461
7	1714	1699.3	310 30	-	10.0	97 30	-223.7	-233.7		6921.9		+1361	-1018	526,816 2,393,327
Y	1928	1915.0	313 27 48	-	13.1	96 40	-223.8	-236.9		6918.7	Y	+1591	-1066	527,046 2,393,279
8	1938	1925.5	317 04	-	15.3	96 30	-219.4	-234.7		6920.9		+1664	-970	527,119 2,393,375
9	2007	1995.1	326 26	-	22.0	96 15	-218.5	-240.5		6915.1		+1864	-711	527,319 2,393,634
10	2115	2103.4	335 10	-	7.0	96 -	-221.1	-228.1		6927.5		+2056	-442	527,511 2,393,903
11	2354	2344.4	346 50	-	9.1	95 10	-212.0	-221.1		6934.5		+2329	-264	527,784 2,394,081
TP	2645	2634.9	342 50 50	-	10.9	95 -	-230.5	-241.4			TP	+2627	-205	528,081 2,394,140
TP	2645				10.6	265 -	-230.5	-241.1	-241.33	6914.3	TP	-	-	
	805		177 26 57	+12.7	13.2	88 30	-21.1	-7.9			BS	+792	+142	
	805				13.1	271 30	-21.1	-8.0	6906.3		BS	-	-	
12	786		176 20	-	0.0	89 48	+4.1	+4.1		6910.4		-776	-123	528,096 2,394,159
13	455		177 25	-	12.8	-		-12.8		6893.5		-448	-80	528,424 2,394,202
14	125		179 40	-	7.4	92 -	-4.4	-11.8		6894.5		-122	-27	528,750 2,394,255

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10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S		8	2				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
UTAH		ORANGE CLIFFS-15		UTAH		GARFIELD					W. Cassidy				
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
									6906.3						
K	0				5.1	-		-5.1		6901.2	K	0	0	528.872	2,394.282
15	205		9° 40'	+12.7	6.3	89° 30'	+1.8	-4.5		6901.8		+190	+78	529.062	2,394.366
16	535		6° 50'	-	10.7	89° 30'	+4.7	-6.0		6900.3		+504	+179	529.376	2,394.461
TP	563		6° 44' 49"	-	7.0	-		-7.0		6899.3	TP	+531	+187	529.402	2,394.469
TP	563				6.9	270°		-6.9			TP	-			
	300		190° 41' 58"	+12.7	8.3	87° 30'	-13.1	-4.8	6894.5		BS	+275	+119		
	300				7.4	87° 40'		-4.8			BS	-			
17	0				5.1	-		-5.1		6889.4	K	0	0	529.676	2,394.588
18	330		359° 35'	-	5.7	90° 40'	-3.8	-9.5		6885.0		+322	+70	529.998	2,394.658
19	660		359° 40'	-	7.9	91° 10'	-13.4	-21.3		6873.2		+645	+141	530.321	2,394.729
TP	676		359° 26' 20"	-	11.8	90° 50'	-9.8	-21.6		6872.9	TP	+661	+142	530.336	2,394.730
TP	676				11.7	269° 10'	-9.8	-21.5			TP	-			
	491		185° 33' 30"	+12.7	14.7	04	+2.5	+17.2			BS	+466	+154		
	491				14.6	BM210	+2.5	+17.1	6890.0		BS	-			
20	179		185° 35'	-	10.6	91° 30'	-4.7	-15.3		6874.7		-170	-56	530.631	2,394.828
K	0				5.1	-		-5.1		6884.9	K	0	0	530.801	2,394.884
21	151		14° 30'	-	6.3	91° 30'	-4.0	-10.3		6879.7		+134	+69	530.935	2,394.953
22	481		13° - -	-	10.0	92° -	-16.8	-26.8		6863.2		+433	+209	531.234	2,395.093
TP	569		12° 36' 52"	-	8.8	92° -	-19.9	-28.7		6861.3	TP	+514	+243	531.314	2,395.127
TP	569				8.7	268° -	-19.9	-28.6			TP	-			

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10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S		8		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-1S		UTAH		GARFIELD								W. Cassidy	
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
									6861.3						
	605		143 22 10	+12.7	9.1	-		+9.1			BS	+553	-245		
	605				6.0	BM	+3.0	+9.0	6870.3		BS	-1			
23	368		141 40	-	9.0	-		-9.0		6861.3		-332	+159	531,534	2,395,041
24	39		133° 50	-	5.1	-		-5.1		6865.2		-33	+22	531,833	2,394,904
X	0				5.1	-		-5.1		6865.2	X	0	0	531,866	2,394,882
25	285		301 -	+12.7	11.3	-		-11.3		6859.0		+197	-206	532,063	2,394,676
TP	393		300 32 10	-	9.7	91 -	-6.9	-16.6		6853.7	TP	+269	-286	532,134	2,394,596
TP	393				9.6	269 -	-6.9	-16.5			TP	-1			
	325		184 46 33	-	9.6	87° 50'	-12.3	-3.3	6850.4		BS	+310	+98		
	325				10.0	87° 40'	-13.2	-3.2			BS	-1			
26	83		177 46	-	4.7	85° 50'	+6.0	+1.3		6851.7		-82	-15	532,361	2,394,679
X	0				5.1	-		-5.1		6845.3	X	0	0	532,443	2,394,694
27	240		345 22 59	+12.7	5.1	91 00	-4.2	-9.3			TP	+240	-8	532,682	2,394,686 <small>FLIGHT TRAIL OVERLOOK</small>
27	240				5.2	269 -	-4.2	-9.4		6841.0	TP	-1			
	508		106 47 03	-	15.0	90 10	+1.5	+16.5	6857.7		BS	+250	-442		
	508				14.9	269 50	+1.5	+16.4	6857.4		BS	-1			
28	181		109 05	-	10.1	90° 30'	-1.6	-11.7		6845.7		-95	+154	532,836	2,394,398
X	0				5.1	-		-5.1		6852.3	X	0	0	532,931	2,394,244
29	153		311 15	-	7.5	90° 30'	-1.3	-8.8		6848.6		+124	-90	533,055	2,394,154

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10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S		8		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15'		UTAH		GARFIELD								W. Cassidy	
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
									6857.4						
TP	348		311° 13' 40"	+12.7	8.3	91° 30'	-9.1	-17.4		6840.0	TP	+281	-205	533.211	2,394.039
TP	348				8.2	268° 30'	-9.1	-17.3			TP	-			
	198		118° 04' 33"	-	+6.7	85° 30'	-15.5	-8.8	6831.2		BS	+129	-149		
	198				+6.7	274° 30'	-15.5	-8.8			BS	-			
30	68		121° 20'	-	4.0	87°	+3.6	-0.4		6830.8		-47	+49	533.292	2,393,939
π	0				5.1	-		-5.1		6826.1	π	0	0	533.339	2,393.890
31	260		336° 35'	-	5.9	91°	-4.5	-10.4		6820.8		+255	-48	533.594	2,393.842
32	590		335° 10'	-	6.7	91°	-10.3	-16.5		6814.7		+577	-124	533.916	2,393.766
33	920		334° 25' 24"	-	5.9	90° 40'	-10.7	-16.6		6814.6	TP	+897	-205	534.235	2,393.685
33	920				5.8	269° 20'	-10.7	-16.5			TP	-			
	941		124° 14' 39"	+12.7	+9.5	89° 16'	-13.7	-4.2	6810.4		BS	+688	-642		
	941				+12.2	89°	-16.4	-4.2			BS	-			
34	615		124°	-	6.0	89° 20'	+7.2	+1.2		6811.6		-448	+422	534.474	2,393.465
35	325		143° 45'	-	9.7	89° 20'	+3.8	-5.9		6804.5		-298	+130	534.624	2,393.173
36	0				5.1	-		-5.1		6805.3	π	0	0	534.922	2,393.043 (cross flag)
37	326		357° 50'	-	5.4	88° 20'	+9.5	+4.1		6814.5		+321	+60	535.243	2,393.103
38	653		3° 25'	-	5.4	88° 20'	+19.0	+13.6		6824.0		+627	+181	535.549	2,393.224
TP	936		2° 23' 54"	-	3.5	88° 20'	+27.2	+23.7		6834.1	TP	+903	+244	535.824	2,393.287
TP	936				3.4	271° 40'	+27.2	+23.8			TP	-			

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10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	5			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
UTAH		ORANGE CLIFFS-15'		UTAH	GARFIELD					W. Cassidy				
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.	
									6834.1					
	235		169 02 15	+12.7	1.9	87° 10'	-11.6	-9.7	6824.3		BS	+235	+7	
	235				1.8	272° 50'	-11.6	-9.8			BS	-1		
39	191		166 30	-	4.8	87° 10'	+9.4	+4.6	6828.9			-191	+3	535.867 2,393.297
40	138		333 05	-	5.1	-	-	-5.1	6819.2		X	0	0	536.058 2,393.294
40	138		333 05	-	4.7	91° 40'	-4.0	-8.7	6815.6			+134	-34	536.192 2,393.260
41	467	466.5	332 22 49	-	5.9	92° 40'	-21.7	-27.6	6796.7		TP	+451	-120	536.508 2,393.174
41	467				5.9	267° 20'	-21.7	-27.6			TP	-1		
	328		126 26 26	+12.7	5.5	89°	-5.7	-0.2	6796.5		BS	+248	-215	
	328				5.5	271°	-5.7	-0.2			BS	-1		
42	0				5.1	-	-	-5.1	6791.4		X	0	0	536.755 2,392.959
43	330		336 45	-	5.9	-	-	-5.9	6790.6			+324	-60	537.079 2,392.879
TP	356		333 50 47	-	7.6	-	-	-7.6	6788.9		TP	+346	-83	537.100 2,392.876
TP	356				7.5	270°	-	-7.5			TP	-1		
	299		136 51 33	-	8.3	-	-	+8.3	6797.2		BS	+258	-151	
	299				9.8	TH	-1.5	+8.3			BS	-1		
44	0				5.1	-	-	-5.1	6792.1		X	0	0	537.357 2,392.725
45	332		338 46 50	-	7.3	-	-	-7.3	6789.8		TP	+328	-49	537.684 2,392.676
45	332				5.7	BH	-1.7	-7.4			TP	-1		
	738	737.3	181 26 30	-	4.3	87° 30'	-32.2	-27.9	6761.8		BS	+715	+180	
	738				4.2	272° 30'	-32.2	-28.0			BS	-1		

ACROSS FLAG

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10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		6							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
UTAH		ORANGE CLIFFS-15		UTAH		GARFIELD								W. Cassidy					
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				
									6761.8										
46	410		178° 15'	+12.7	7.9	88° 20'	+11.9	+4.0		6765.8		-403	-78	537.995	2,392.778				
47	80		180° -	-	6.7	89° 20'	+0.9	-5.8		6756.0		-78	-18	538.320	2,392.838				
π	0				5.1	-		-5.1		6756.7	π	0	0	538.398	2,392.856				
48	250		354° 50'	-	9.8	91° 20'	-5.8	-15.6		6746.2		+248	+33	538.646	2,392.889				
49	580		353° 50'	-	4.8	91° 10'	-11.8	-16.6		6745.2		+576	+66	538.974	2,392.922				
50	910		-	-	6.1	90° 50'	-13.2	-19.3		6742.5		+904	+104	539.302	2,392.960				
TP	932		354° 02' 33"	-	8.5	90° 50'	-13.6	-22.1		6739.7	TP	+925	+109	539.322	2,392.965				
TP	932				8.4	269° 10'	-13.6	-22.0			TP	-1							
	452		199° 43' 19"	+12.7	2.9	TH	-2.3	+0.6			BS	+382	+242						
	452				2.8	TH 270°	-2.3	+0.5	6740.2		BS								
51	148		195° 05'	-	6.3	-		-6.3		6733.9		-131	-69	539.573	2,393.138				
π	0				5.1	-		-5.1		6735.1	π	0	0	539.704	2,393.207				
52	182		16° 35'	-	4.9	89° 30'	+1.6	-3.3		6736.9		+167	+72	539.871	2,393.279				
53	514		7° 59' 09"	-	6.4	-		-6.4		6733.8	TP	+481	+182	540.185	2,393.389				
53	514				3.8	BH	-2.6	-6.4			TP								ACROSS 5m.
	870		178° 45' 36"	-	10.0	89° -	-15.2	-5.2			BS	+853	+173						
	870				9.9	271° -	-15.2	-5.3	6728.5		BS								
54	549		178° 40'	-	8.0	89° 20'	+6.4	-1.6		6726.9		-538	-108	540.500	2,393.454				
55	219		-	-	6.7	89° 20'	+2.5	-4.2		6724.3		-215	-43	540.823	2,393.519				
π	0				5.1	-		-5.1		6723.4	π	0	0	541.038	2,393.562				

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AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
UTAH		ORANGE CLIFFS-15		UTAH		GARFIELD/WAYNE					W. Cassidy						
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		
									6728.5								
56	107		356 10	+12.7	5.7	89° 20'	+1.2	-4.5		6724.0		+106	+16	541.144	2,393,578		
57	433		344 35	-	6.5	89° 46'	+2.5	-4.0		6724.5		+433	-21	541,471	2,393,541		
TP	634		343 50 35	-	6.9	-	-	-6.9		6721.6	TP	+633	-38	541,671	2,393,524		
TP	634			-	6.8	270 -	-	-6.8			TP						
	785		155 44 38	-	14.7	-	-	+14.7	6736.3		BS	+769	-157				
	785			-	10.8	BM	+3.9	+14.7			BS						
58	659		155 25	+12.7	8.3	91 -	-11.5	-19.8		6716.5		-645	+136	541,795	2,393,503		
59	330		-	-	6.0	91 -	-5.8	-11.8		6724.5		-323	+68	542,117	2,393,435		
60	0			-	5.1	-	-	-5.1		6731.2	X	0	0	542,440	2,393,367		
61	330		336 45	-	9.6	91 30	-8.6	-18.2		6718.1		+324	-60	542,764	2,393,307		
62	659		335 39 03	-	5.4	92 -	-23.0	-28.4		6707.9	TP	+645	-133	543,085	2,393,234		
62	659			-	5.3	268 -	-23.0	-28.3			TP						
	327		119 36 45	-	3.6	87 -	-17.1	-13.5			BS	+220	-241				
	327			-	3.5	273 -	-17.1	-13.6	6694.3		BS						
63	0			-	5.1	-	-	-5.1		6689.2	X	0	0	543,305	2,392,993		
64	330		305 50	+12.7	6.6	93 -	-17.3	-23.9		6670.4		+247	-219	543,552	2,392,774	GARFIELD County ↑	
TP	499	498.3	305 04 27	-	5.0	93 -	-26.1	-31.1		6663.2	TP	+369	-335	543,674	2,392,658	Wayne County ↓	
TP	499			-	5.0	267 -	-26.1	-31.1			TP						
	295		161 38 03	-	6.6	71	-1.5	+5.1	6668.3		BS	+294	-29				
	295			-	10.3	89 -	-5.1	+5.2			BS						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
16-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	8						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
UTAH		GRANGE CLIFFS 15		UTAH		Wayne					W. Cassidy						
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		
									6668.3								
65	132		166 -	+12.7	6.6	89° 50'	+0.4	-6.2		6662.1		-132	+3	543.836	2,392,632		
K	0				5.1	-		-5.1		6663.2	K	0	0	543.968	2,392,629		
66	200		2° 45'	-	3.8	89° 50'	+0.6	-3.2		6665.1		+193	+53	544.161	2,392,682		
TP	464		354° 59' 06"	-	8.1	89° 50'	+1.4	-6.7		6661.6	TP	+460	+62	544.428	2,392,691		
TP	464				8.0	270° 10'	+1.4	-6.6			TP						
	394		184° 54' 33"	+12.7	8.7	88° 50'	-8.0	+0.7			BS	+375	+119				
	394				8.6	271° 10'	-8.0	+0.6	6662.2		BS						
67	334		188° 25'	-	11.8	88° 20'	+9.7	-2.1		6660.1		-312	-120	544.491	2,392,690		
68	18		130° 55'	-	4.9	-		-4.9		6657.3		-14	+11	544.789	2,392,821		
K	0				5.1	-		-5.1		6657.1	K	0	0	544.803	2,392,810		
69	319		1° 40'	-	7.9	-		-7.9		6654.3		+309	+79	545.112	2,392,889		
TP	390		359° 39' 22"	-	10.1	-		-10.1		6652.1	TP	+381	+83	545.184	2,392,893		
TP	390				10.0	270°		-10.0			TP						
	586		148° 34' 49"	+12.5	4.6	89°	-10.2	-5.6			BS	+554	-190				
	586				4.5	271°	-10.2	-5.7	6646.4		BS						
70	330		146° 30'	-	8.4	89° 10'	+4.8	-3.6		6642.8		-308	+118	545.430	2,392,821		
71	6				5.1	-		-5.1		6641.3	K	0	0	545.738	2,392,703		
72	330		318° 10'	-	7.3	91° 30'	-8.6	-15.9		6630.5		+288	-162	546.026	2,392,541		
73	660		318° 45'	-	6.4	91° 30'	-17.3	-23.7		6622.7		+579	-317	546.317	2,392,386		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
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
73									6646.4						
TP	737		318° 17'	-	7.5	91° 30'	-19.3	-26.8		6619.6	TP	+643	-360	546,381	2,392,343
TP	737				7.4	268° 30'	-19.3	-26.7			TP				
	582		148° 13' 04"	-	11.9	88° 20'	-16.9	-5.0			BS	+549	-192		
	582				11.8	271° 40'	-16.9	-5.1	6614.5		BS				
74	329		145° 10'	--	6.4	88° 10'	+10.5	+4.1		6618.6		-304	+125	546,626	2,392,276
75	0				5.1	-		-5.1		6609.4	TP	0	0	546,930	2,392,151
76	329		339° 55'	-	7.9	89° 40'	+1.9	-6.0		6608.5		+326	-43	547,256	2,392,108
TP	528		338° 00' 20"	-	6.9	-		-6.9		6607.6	TP	+521	-87	547,451	2,392,064
TP	528				9.5	74	+2.6	-6.9			TP				
	790		145° 43' 18"	+12.7	5.7	88° 20'	-23.0	-17.3			BS	+734	-290		
	790				5.6	271° 40'	-23.0	-17.4	6590.2		BS				
77	659		145° 40'	--	6.5	88° 20'	+19.2	+12.7		6602.9		-613	+243	547,572	2,392,017
78	330		144° 50'	-	5.9	88° 20'	+9.6	+3.7		6593.9		-305	+126	547,880	2,391,900
79	0				5.1	-		-5.1		6585.1	TP	0	0	548,185	2,391,774
80	330		323° 05'	--	5.7	90° 30'	-2.9	-8.6		6581.6		+301	-135	548,486	2,391,639
81	660		322° 25'	--	5.9	90° 20'	-3.8	-9.7		6586.5		+599	-278	548,784	2,391,496
82	990		321° 55'	-	5.3	89° 50'	+2.9	-2.4		6587.8		+894	-424	549,079	2,391,350
83	1320		322° 10'	-	10.4	89° 20'	+15.4	+5.0		6595.2		+1195	-561	549,386	2,391,213
84	1648		321° 45' 30"	+12.8	10.8	89° 10'	+24.0	+13.2		6603.4	TP	+1488	-708	549,673	2,391,066
84	1648				10.7	270° 50'	+24.0	+13.3			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-29-85		B. Cotcamp		B. SALDIVAR		6834		B. S.		8		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15'		UTAH		Wayne								W. Cassidy	
STATION NO. 34	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
	2131		145° 51' 04"	+12.8	5.6	-		+5.6		6603.4					
	2131				5.5	270°		+5.5	6608.9		BS	+1985	-776		
85	1801		145° 55'	-	5.9	-		-5.9		6603.0		-1678	+654	549.980 2,390,944	
86	1472		-	-	11.2	-		-11.2		6597.7		-1372	+534	550.286 2,390,824	
87	1142		-	-	11.9	-		-11.9		6597.0		-1064	+415	550.994 2,390,705	
88	812		145° 55'	-	10.7	-		-10.7		6598.2		-757	+295	550.901 2,390,585	
89	482		-	-	7.2	-		-7.2		6601.7		-449	+175	551.209 2,390,465	
90	153		-	-	6.8	-		-6.8		6602.1		-143	+56	551.515 2,390,346	
X	0				5.1	-		-5.1		6603.8	X	0	0	551.658 2,390,290	
91	177		329° -	+12.8	7.8	-		-7.8		6601.1		+168	-55	551.826 2,390,235	
92	507		326° 50'	-	8.0	-		-8.0		6600.9		+475	-176	552.133 2,390,114	
TP93	836		326° 39' 28"	-	11.0	90° 50'	-12.2	-23.2		6585.7	TP	+783	-293	552.441 2,389,997	
TP93	836			-	10.9	269° 10'	-12.2	-23.1			TP				
	757	156°	135° 04' 22"	-	7.8	87°	-39.6	-31.8	6555.5		BS	+640	-402		
	757				7.7	273°	-39.6	-31.9	6553.8		BS				
94	430	429.11	134° -	-	9.4	87°	+22.5	+13.1		6566.9		-359	+235	552.722 2,389,830	
95	101		129° 30'	-	6.5	89° 30'	+0.9	-5.6		6548.2		-80	+62	553.001 2,389,657	
X	0				5.1	-		-5.1		6548.7	X	0	0	553.081 2,389,595	
96	232		327° 30'	-	7.1	90° 30'	-2.0	-9.1		6544.7		+218	-78	553.299 2,389,517	
97	562		326° 10'	-	11.9	90° 30'	-4.9	-16.8		6537.0		+525	-202	553.606 2,389,393	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		11							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
UTAH		ORANGE CLIFFS-15'		UTAH		WAYNE								W. CASS, Jr					
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				
									65538										
98	891		325° 36' 30"	+128	9.8	90° 30'	-7.8	-17.6	}	6536.2	TP	+828	-328	553,909	2,389,267				
98	891				9.7	269° 30'	-7.8	-17.5		TP									
	837		123° 44' 12"	-	+4.4	-		+4.4	}	65406	BS	+608	-576						
	837				+0.2	BH	+4.2	+4.4		BS									
99	566		123° 05'	-	11.3	-		-11.3		6529.3		-363	+352	554,154	2,389,043				
100	176		-	-	5.6	-		-5.6		6535.0		-126	+123	554,391	2,388,814				
π	0				5.1	-		-5.1		6535.5	π	0	0	554,517	2,388,691				
101	154		312° 20'	+128	6.8	92° -	-5.4	-12.2		6528.4		+126	-88	554,643	2,388,603				
102	458		304° 35'	-	11.9	-		-11.9		6528.7		+337	-310	554,854	2,388,381				
103	677		279° 50'	-	10.1	90° 50'	+9.8	-19.9		6520.7		+261	-625	554,778	2,388,066				
104	981		274° 55'	-	5.8	90° 40'	-11.4	-17.2		6523.4		+299	-934	554,816	2,387,757				
TP	1058		283° 03' 30"	-	10.1	90° 10'	-3.1	-13.2	}	6527.4	TP	+461	-952	554,978	2,387,739				
TP	1058				10.0	269° 50'	-3.1	-13.1		TP									
	382		177° 40' 00"	+128	5.0	88° -	-13.3	-8.3	}	6519.1	BS	+375	+69						
	382				+5.0	272° -	-13.3	-8.3		BS									
105	214		176° 45'	-	3.5	87° 40'	+8.7	+5.2		6524.3		-211	-36	555,142	2,387,772				
π	0				5.1	-		-5.1		6514.0	π	0	0	555,353	2,387,808				
106	119		19° -	-	7.4	91° -	-2.1	-9.5		6509.6		+101	+63	555,454	2,387,871				
107	447		15° 05'	-	6.3	91° -	-7.8	-14.1		6505.0		+395	+209	555,748	2,388,017				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-29-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
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
									6519.1						
TP	529		14° 26' 10"	+128	11.0	91° -	-9.2	-20.2		6498.9	TP	+470	+242	555.823	2,388.050
TP	529				10.9	269° -	-9.2	-20.1			TP				
	975	972.6	136° 29' 26"	-	+0.8	86° -	-68.0	-67.2			BS	+836	-497		
	975				0.7	294° -	-68.0	-67.3	6431.6		BS				
108	740	738.3	132° 35'	-	5.3	86° 10'	+49.5	+44.2		6475.8		-608	+419	556.051	2,387.972
109	411		131° 05'	-	5.0	88° 50'	+8.4	+3.4		6435.0		-332	+242	556.327	2,387.795
110	82		128° 10'	-	5.3	89° 20'	+1.0	-4.3		6427.3		-64	+52	556.595	2,387.605
π	0				5.1	-		-5.1		6426.5	π	0	0	556.659	2,387.553
111	249	248.3	295° 50'	+128	6.9	94° 20'	-18.8	-25.7		6405.9		+155	-194	556.814	2,387.359
112	574		288° 55'	-	5.5	92° 20'	-23.4	-28.9		6402.7		+302	-488	556.961	2,387.065
TP	684	683.4	288° 51' 45"	-	4.8	92° 20'	-27.8	-32.6		6399.0	TP	+359	-582	557.018	2,386.971
TP	684				4.7	267° 40'	-27.8	-32.5			TP				
	459		135° 54' 05"	-	+13.1	84°	+2.3	+15.4	6414.4		BS	+392	-238		
	459				7.4	91° -	+8.0	+15.4			BS				
113	234		136° -	-	7.9	91° 20'	-5.4	-13.3		6401.1		-200	+121	557.210	2,386.854
π	0				5.1	-		-5.1		6409.3	π	0	0	557.410	2,386.733
114	109		354° 10'	-	5.7	91° 20'	-2.5	-8.2		6406.2		+108	+13	557.518	2,386.746
115	439		356° 45'	-	7.8	91° 50'	-14.0	-21.8		6392.6		+433	+73	557.843	2,386.806
116	766		354° 35'	-	5.9	91° 30'	-20.1	-26.0		6388.4		+760	+98	558.170	2,386.831

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-29-85		B. Cotamp		B. SALDIVAR		6834		B.S.		8		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15'		UTAH		WAYNE								W. Cassidy	
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
									6414.4						
TP	957		354 42 25	+128	7.1	91 30	-25.1	-32.2		6382.2	TP	+948	+125	558.358	2,386.858
TP	957				7.0	268 30	-25.1	-32.1			TP				
	1191	1184.8	237 32 02	-	+9.4	95 50	+121.0	+130.4			BS	+399	+116		
	1191				+9.3	264 10	+121.0	+130.3	6512.5		BS				
117	1083	1076.0	242 28	-	6.2	96 30	-122.6	-128.8		6383.7		-274	-1041	558.483	2,386.933
118	849	841.9	255 50	-	6.3	97 24	-109.3	-115.6		6396.9		-20	-842	558.737	2,387.132
119	635	627.5	275 20	-	5.5	98 50	-97.5	-103.0		6409.5		+195	-596	558.952	2,387.378
X	0				5.1	-		-5.1		6507.4	X	0	0	558.757	2,387.974 OFFLINE ON HILL
120	692	684.4	303 56	+128	5.4	98 30	-102.3	-107.7		6404.8		+498	-469	559.255	2,387.505
121	811	805.8	327 30	-	6.1	96 30	-91.8	-97.9		6414.6		+759	-272	559.516	2,387.702
122	942	939.1	347 30	-	11.4	94 30	-73.9	-85.3		6427.2		+939	+5	559.696	2,387.979
123	1139	1136.5	1 54	-	5.0	93 50	-76.1	-81.1		6431.4		+1099	+288	559.856	2,388.262
124	1388	1386.1	11 40	-	5.0	92 58	-71.8	-76.8		6435.7		+1262	+574	560.019	2,388.548
125	1676	1675.0	17 40	-	3.4	92 -	-58.5	-61.9		6450.6		+1444	+849	560.201	2,388.823
126	1975		21 50	-	5.3	91 02	-35.6	-40.9		6471.6		+1625	+1122	560.382	2,389.096
127	2285		24 50	-	5.8	90 26	-17.3	-23.1		6489.4		+1810	+1395	560.567	2,389.369
128	2611		25 27 57	-	7.3	90 16	-12.2	-19.5		6493.0	TP	+2050	+1617	560.807	2,389.591
128	2611				11.9	269 50	-7.6	-19.5			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B. S.		8		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY-MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		Wayne								W. Cass. Jr.	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER-ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH+ SOUTH-	EAST+ WEST-		Y
										6493.0					
	2059		201 50 06	+126	9.3	90° 30'	+18.0	+27.3			BS	+1698	+1164		
	2059				+9.7	267 30'	+18.0	+27.2	6526.2		BS				
129	1730		202 10	-	4.8	90° 50'	-25.2	-30.0		6490.2		-1421	-987	561,084	2,389,768
130	1401		203 15	-	10.0	90° 40'	-16.3	-26.3		6493.9		-1136	-821	561,369	2,389,734
131	1072		204 20	-	10.9	90° 40'	-12.5	-23.4		6496.8		-857	-644	561,648	2,390,111
132	743		205 50	-	9.1	90° 40'	-8.6	-17.7		6502.5		-582	-462	561,923	2,390,293
133	414		206 -	-	6.4	90° 20'	-2.4	-8.8		6511.4		-324	-258	562,181	2,390,497
134	105		228 26	-	5.0	89° 20'	+1.2	-3.8		6516.4		-51	-92	562,454	2,390,663
	0				5.1	-		-5.1		6515.1	TP	0	0	562,505	2,390,755
135	336		299 35	+126	6.4	87 -	+17.6	+11.2		6531.4		+217	-257	562,722	2,390,498
136	657	656.1	288 50	-	3.9	87 -	+34.4	+30.5		6550.7		+342	-560	562,847	2,390,195
TP	782	780.9	288 54 46	-	4.4	87 -	+40.9	+36.5		6556.7	TP	+408	-666	562,913	2,390,089
TP	782				4.3	273 -	+40.9	+36.6			TP				
	873		80 52 52	-	4.5	91° 30'	+22.9	+27.4			BS	+53	-871		
	873				4.4	268 30'	+22.9	+27.3	6584.0		BS				
137	659		80 45	-	6.3	91° 50'	-21.1	-27.4		6556.6		-39	+658	562,927	2,389,876
138	330		-	-	8.2	92° 50'	-16.3	-24.5		6559.5		-19	+329	562,947	2,389,547
139	0				5.1	-		-5.1		6578.9	TP	0	0	562,966	2,389,218
140	328		237 -	-	5.6	87° 18'	+15.5	+9.9		6593.9		-114	-307	562,852	2,388,911

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotamp		B. SALDIVAR		6834		B.S.		8		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
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
									6584.0						
TP	590	589.3	237 06 48	+12.6	1.8	87 10	+29.2	+27.4		6611.4	TP	-204	-553	562,762	2,388,665
TP	570				1.7	272 50	+29.2	+27.5			TP				
	344		134 46 26	-	3.8	91 -	+6.0	+9.8			BS	+290	-185		
	344				9.7	-		+9.7	6621.1		BS				
141	230		135 20	-	7.1	-		-7.1		6614.0		-195	+122	562,857	2,388,602
π	0				5.1	-		-5.1		6616.0	π	0	0	563,052	2,388,480
142	100		323 10	-	7.1	-		-7.1		6614.0		+91	-41	563,143	2,388,439
143	429		323 30	-	6.4	88 -	+15.0	+8.6		6629.7		+392	-174	563,444	2,388,306
144	758	757.2	325 35 03	-	4.9	87 20	+35.3	+30.4		6651.5	TP	+703	-281	563,755	2,388,199
144	758				4.8	272 40	+35.3	+30.5			TP				
	572	570.6	135 06 42	+12.6	8.7	94 -	+39.9	+48.6			BS	+482	-305		
	572				8.6	266 -	+39.9	+48.5	6700.0		BS				
145	244	243.4	130 10	-	10.5	94 -	-17.0	-27.5		6672.5		-194	+147	564,043	2,388,041
π	0				5.1	-		-5.1		6694.9	π	0	0	564,237	2,387,894
146	88		325 -	-	6.9	-		-6.9		6693.1		+81	-34	564,318	2,387,860
147	417		321 55	-	7.8	92 10 85	-8.5	-16.3		6683.7		+376	-179	564,613	2,387,715
TP	485		321 44 12	-	7.1	92 -	-16.9	-24.0		6676.0	TP	+437	-210	564,674	2,387,684
TP	485				7.0	268 -	-16.9	-23.9			TP				
	747	745.9	147 35 02	-	9.4	86 50	-41.3	-31.9			BS	+702	-253		
	747				9.3	270 10	-41.3	-32.0	6644.0		BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
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
									6644.0						
148	489		150 35	+12.6	6.2	88 30	+12.8	+6.6		6650.6		-468	+141	564,908	2,387,572
149	160		145 45	-	5.4	88 30	+4.2	-1.2		6642.8		-149	+59	565,227	2,387,490
148	0				5.1	-		-5.1		6638.9	TP	0	0	565,376	2,387,431
150	168		314 0	-	4.4	-		-4.4		6639.6		+140	-92	565,516	2,387,339
TP	410		316 23 39	-	5.4	-		-5.4		6638.6	TP	+327	-247	565,763	2,387,184
TP	410				7.5	TH	+2.1	-5.4			TP				
	253		160 09 04	+12.6	2.5	88 -	-8.8	-6.3			BS	+251	-32		
	253				2.4	272 -	-8.8	-6.4	6632.2		BS				
151	157		152 25	-	7.2	88 -	+5.5	-1.7		6630.5		-152	+41	565,802	2,387,193
151	0				5.1	-		-5.1		6627.1	TP	0	0	565,954	2,387,152
152	173		356 45	-	6.3	91 50	-5.5	-11.8		6620.4		+171	+28	566,125	2,387,180
B	502		354 20	-	4.6	91 50	-16.1	-20.7		6611.5		+498	+61	566,452	2,387,213
TP	605		353 16 26	-	3.1	91 50	-19.4	-22.5		6609.7	TP	+602	+62	566,556	2,387,214
TP	605				3.0	268 10	-19.4	-22.4			TP				
	452		143 38 18	+12.6	2.5	89 -	-7.9	-5.4	6604.3		BS	+414	-182		
	452				2.5	271 -	-7.9	-5.4			BS				
154	229		141 10	-	6.1	89 -	+4.0	-2.1		6602.2		-205	+101	566,765	2,387,133
154	0				5.1	-		-5.1		6599.2	TP	0	0	566,970	2,387,032
155	97		353 25	-	3.6	88 -	+3.4	-0.2		6604.1		+96	+10	567,066	2,387,042

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. Saldivar		6834		B.S.		8		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
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
									6604.3						
156	425		347° 06' 48"	+12.6	14.5	89° -	+7.4	-7.1		6597.2	TP	+425	-2	567.395	2,387.030
156	425				14.4	271° -	+7.4	-7.0			TP				
	545		170° 39' 52"	~ +	9.2	88° -	-19.0	-9.8			BS	+544	+31		
	545			+ 9.1	272° -	-19.0	-9.9		6587.3		BS				
157	218		163° 30'	~	6.2	88° 40'	+5.1	-1.1		6586.2		-218	+15	567.721	2,387.076
π	0				5.1	-		-5.1		6582.2	π	0	0	567.939	2,387.061
158	111		346° 20'	~	6.3	91° 40'	-3.2	-9.5		6577.8		+111	-2	568.050	2,387.059
159	440		347° -	+12.6	6.4	90° 20'	-2.6	-9.0		6578.3		+440	-3	568.379	2,387.058
160	754		343° 30'	~	14.3	89° -	+13.2	-1.1		6586.2		+752	-51	568.691	2,387.010
161	1063		338° 30'	~	7.7	89° 10'	+15.5	+7.8		6595.1		+1050	-164	568.989	2,386.897
162	1335		330° 25'	~	11.7	88° 30'	+34.9	+23.2		6610.5		+1277	-390	569.216	2,386.671
163	1634		325° 45'	~	9.1	88° 20'	+47.5	+38.4		6625.7		+1519	-603	569.458	2,386.458
TP	1739	1738.4	325° 39' 30"	-	3.8	88° 30'	+45.5	+41.7		6629.0	TP	+1615	-644	569.554	2,386.417
TP	1739				3.7	271° 30'	+45.5	+41.8			TP				
	571	570.3	196° 37' 15"	+12.6	14.1	87° 10'	-28.2	-14.1			BS	+498	+278		
	571			+ 14.0	272° 50'	-28.2	-14.2		6614.8		BS				
164	330	329.3	194° 55'	~	6.0	86° 20'	+21.1	+15.1		6629.9		-292	-152	569.760	2,386.543
165	0				5.1	-		-5.1		6609.7	π	0	0	570.052	2,386.675
166	323		1° 16'	~	7.2	93° 20'	-18.8	-26.0		6588.8		+314	+77	570.366	2,386.772

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDINAR		6834		B.S.		8		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15'		UTAH		Wayne								W. Cassidy	
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
									6614.8						
TP	386		1° 39' 18"	+126	11.3	93°	-20.2	-31.5		6583.3	TP	+374	+95	570,426	2,386,790
TP	386				11.2	267°	-20.2	-31.4		TP					
	450		264° 53' 54"	-	+6.3	87° 30'	-19.6	-13.3		6569.9	BS	-59	+446		
	450				+6.2	272° 30'	-19.6	-13.4			BS				
167	205		264° 55'	-	6.0	90° 30'	-1.8	-7.8		6562.1		+27	-203	570,394	2,387,033
X	0				5.1	-		-5.1		6564.8	X	0	0	570,367	2,387,236
168	120		37° -	-	8.5	91° 30'	-3.1	-11.6		6558.3		+78	+91	570,445	2,387,327
169	448		29° 35'	-	5.8	91° 30'	-11.7	-17.5		6552.4		+332	+301	570,699	2,387,537
TP	676		28° 36' 39"	-	5.2	-		-5.2		6564.7	TP	+509	+445	570,876	2,387,881
TP	676				5.1	270°		-5.1			TP				
	369		191° 16' 39"	+126	7.9	89° -	-6.4	+1.5		6566.2	BS	+337	+149		
	369				7.9	271° -	-6.4	+1.5			BS				
170	267		190° 35'	-	7.3	89° 30'	+2.3	-5.0		6561.2		-245	-105	570,968	2,387,725
X	0				5.1	-		-5.1		6561.1	X	0	0	571,213	2,387,830
171	61		13° 35'	-	4.9	90° 30'	-0.5	-5.4		6560.8		+55	+27	571,268	2,387,857
172	388		9° 10'	-	5.2	90° 20'	-2.3	-7.5		6558.7		+360	+144	571,573	2,387,974
TP	454		5° 49' 36"	-	5.0	90° 30'	-4.0	-9.0		6557.2	TP	+431	+144	571,644	2,387,974
TP	454				4.9	269° 30'	-4.0	-8.9			TP				
	1049	1048.1	159° 47' 12"	+123	7.6	92° 20'	+42.7	+50.3		6607.4	BS	+1038	-144		
	1049				7.5	267° 40'	+42.7	+50.2			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	19						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
UTAH		ORANGE CLIFFS-15	UTAH	WAYNE				W. Cassidy									
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		
									6607.4								
173	794	793.0	160° 45'	+12.3	12.0	92° 56'	-40.6	-52.6		6554.8		-787	+96	571,895	2,387,926		
174	477	475.9	152° 45'	-	7.2	93° 50'	-31.9	-39.1		6568.3		-460	+123	572,222	2,387,953		
175	157		160° 40'	-	8.8	93° 50'	-10.5	-19.3		6588.1		-156	+19	572,526	2,387,849		
X	0				5.1	-		-5.1		6602.3	X	0	0	572,682	2,387,830		
176	184		16° 45'	+12.3	5.4	87° 30'	+8.0	+2.6		6610.0		+161	+89	572,843	2,387,919		
177	506		12° 36' 45"	-	5.8	87° 30'	+22.1	+16.3		6623.7	TP	+458	+213	573,140	2,388,043	across str.	
177	506				5.7	272° 30'	+22.1	+16.4			TP						
	485		142° 52' 16"	-	12.0	TH	-2.4	+9.6			BS	+440	-204				
	485				11.9	TH 270°	-2.4	+9.5	6633.2		BS						
178	173		140° 45'	-	5.8	90° 30'	-1.5	-7.3		6625.9		-154	+78	573,426	2,387,917		
178	216		141° 54' 46"	-	5.6	90° 30'	-1.8	-7.4		6625.8	TI	-189	+91	573,391	2,387,930	north point	
X	0				5.1	-		-5.1		6628.1	X	0	0	573,580	2,387,839		
179	157		345° 20'	+12.3	5.5	91° -	-2.7	-8.2		6625.0		+157	-6	573,737	2,387,833		
180	487		346° -	-	9.7	-		-9.7		6623.5		+487	-14	574,067	2,387,825		
181	814		345° 15'	-	8.0	-		-8.0		6625.2		+813	-35	574,393	2,387,804		
TP	929		345° 04' 24"	-	2.2	-		-2.2		6631.0	TP	+928	-43	574,508	2,387,796		
TP	929				2.1	270° -		-2.1			TP						
	926		146° 48' 18"	-	6.7	-		+6.7	6637.7		BS	+865	-330				
	926				11.4	TH	-4.6	+6.8			BS						

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Gotcamp		B. SALDIVAR		6834		B.S.		8		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15'		UTAH		WAYNE								W. Cassidy	
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
									6637.7						
182	710		146° 10'	+123	5.2	-		-5.2		6632.5		-660	+261	574,713	2,387,727
183	382		145° 50'	-	7.8	-		-7.8		6629.9		-355	+142	575,018	2,387,608
#1	648		146° 40' 32"	-	4.6	-		-4.6		6633.1	#1	-609	+232	574,768	2,387,698
184	58		123° -	-	5.4	-		-5.4		6632.3		-41	+41	575,332	2,387,507
X	0				5.1	-		-5.1		6632.6	X	0	0	575,373	2,387,466
185	270		306° 50'	+123	5.6	87° 40'	+11.0	+5.4		6643.1		+204	-177	575,577	2,387,289
186	580		306° 10'	-	4.9	88° 16'	+17.5	+12.6		6650.3		+434	-385	575,807	2,387,081
TP	625		303° 27' 57"	-	3.8	88° 10'	+20.0	+16.2		6653.9	TP	+448	-436	575,821	2,387,030
TP	625				3.7	271° 50'	+20.0	+16.3			TP				
	234		60° 34' 22"	-	11.2	-		+11.2	6665.1		BS	-69	-224		
	234				10.0	BM	+1.2	+11.2			BS				
X	0				5.1	-		-5.1		6660.0	X	0	0	575,752	2,386,806
187	40		316° 30'	-	3.7	89° 20'	+0.5	-3.2		6661.9		+34	-21	575,786	2,386,785
188	362		316° 12' 04"	-	1.6	92° 16'	-14.3	-15.9		6649.2	TP	+287	-220	576,039	2,386,586
188	362				1.5	267° 44'	-14.3	-15.8			TP				
	326		109° 04' 42"	+123	4.7	88° 16'	-9.9	-5.2	6644.0		BS	+170	-278		
	326				4.7	271° 44'	-9.9	-5.2			BS				
189	0				5.1	-		-5.1		6638.9	X	0	0	576,209	2,386,308
190	327		277° 40'	-	7.0	90° 20'	-1.9	-8.9		6635.1		+112	-307	576,321	2,386,001

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SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		WAYNE								W. Cassidy	
STATION NO. 190	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
									6644.0						
TP	388		279° 44' 52"	+12.3	6.8	90° 20'	-2.3	-9.1		6634.9	TP	+146	-360	576.355	2,385,948
TP	388				6.7	269° 46'	-2.3	-9.0			TP				
	448		119° 41' 06"	-	2.7	-		+2.7			BS	+300	-333		
	448				2.6	270° -		+2.6	6637.5		BS				
191	179		118° 30'	-	5.4	88° 30'	+4.7	-0.7		6636.8		-117	+136	576.538	2,385.751
X	0				5.1	-		-5.1		6632.4	X	0	0	576.655	2,385.615
192	149		299° 40'	+12.3	7.8	92° 10'	-5.6	-13.4		6624.1		+100	-111	576.755	2,385.504
193	479		297° 40'	-	6.0	92° 20'	-19.5	-25.5		6612.0		+308	-367	576.963	2,385.248
TP194	807	806.5	298° 38' 30"	-	4.2	92° -	-28.2	-32.4			TP	+529	-609	577.184	2,385.006
TP194	807				4.0	268° -	-28.2	-32.2	-32.3	6605.2	TP				
	556	555.4	105° 05' 40"	-	5.0	87° 24'	-25.2	-20.2	6585.0		BS	+256	-493		
	556				5.0	272° 36'	-25.2	-20.2			BS				
195	227		102° 30'	+12.3	4.7	87° -	+11.9	+7.2		6592.2		-95	+206	577.345	2,384,719
X	0				5.1	-		-5.1		6579.9	X	0	0	577.440	2,384,513
196	102		315° 10'	-	7.5	93° -	-5.3	-12.8		6572.2		+86	-55	577.526	2,384,458
TP	392		308° 46' 54"	-	5.1	91° 30'	-10.3	-15.4		6569.6	TP	+305	-246	577.745	2,384,267
TP	392				5.0	268° 30'	-10.3	-15.3			TP				
	666		91° 53' 07"	-	5.9	92° 10'	+25.2	+31.1			BS	+163	-645		
	666				5.8	267° 50'	+25.2	+31.0	6600.6		BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		ORANGE CLIFFS-15		UTAH		Wayne								W. Cassidy	
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
									6600.6						
197	623		91° 35'	+12.3	8.4	92° 20'	-25.4	-33.8		6566.8		-149	+605	577,759	2,384,227
198	313		80° 46'		19.6	92° 02'	-11.1	-30.7		6569.7		-17	+313	577,891	2,383,935
199	0			-	5.1	-		-5.1		6595.5	X	0	0	577,908	2,383,622
200	330		255° 30'	-	5.3	88° -	+11.5	+6.2		6606.8		-13	-330	577,895	2,383,292
TP	366		255° 07' 21"		4.2	88° -	+12.8	+8.6			TP	-16	-365	577,892	2,383,257
TP	366			-	4.1	272° -	+12.8	+8.5		6609.1	TP				
	873		117° 52' 41"	+12.3	5.3	89° -	-15.2	-9.9			BS	+563	-667		
	873			+	5.2	271° -	-15.2	-10.0	6599.1		BS				
201	566		117° 35'	-	6.4	89° -	+9.9	+3.5		6602.6		-363	+434	578,092	2,383,024
202	236		114° -	-	6.7	89° -	+4.1	-2.6		6596.5		-140	+190	578,315	2,382,780
X	0			-	5.1	-		-5.1		6594.0	X	0	0	578,455	2,382,590
203	94		290° 15'		7.2	-		-7.2		6591.9		+51	-19	578,506	2,382,511
204	419		282° 35'		5.6	91° 40'	-12.2	-17.8		6581.3		+176	-380	578,631	2,382,210
TP	482		282° 03' 16"		2.7	91° 40'	-14.0	-16.7		6582.4	TP	+199	-439	578,654	2,382,151
TP	482			+12.3	2.6	268° 20'	-14.0	-16.6			TP				
	718		148° 45' 44"	+	5.4	88° 20'	-20.9	-15.5			BS	+679	-233		
	718			-	5.3	271° 40'	-20.9	-15.6	6566.8		BS				
205	436		147° 30'	-	7.9	89° -	+7.6	-0.3		6566.5		-409	+151	578,924	2,382,069
206	106		-	-	7.9	89° -	+1.9	-6.1		6560.7		-99	+37	579,234	2,381,955
X	0				5.1	-		-5.1		6561.7	X	0	0	579,333	2,381,918

ORANGE CLIFFS-15
THE SPUR-15

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-2-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-1S		UTAH		Wayne								W. Cassidy	
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
									6566.8						
207	223		346 40	+12.3	6.3	89 -	+3.9	-2.4		65644		+223	-4	579,556	2,381,914
TP	462		343 34 30	+12.1	4.7	89 30	+4.0	-0.7		6566.1	TP	+461	-35	579,774	2,381,883
TP	462			-	4.6	270 30	+4.0	-0.6			TP				
	1091		128 34 14	-	10.9	91 -	+19.0	+29.9			BS	+844	-691		
	1091				10.8	269 -	+19.0	+29.8	6595.9		BS				
208	1002		127 20	-	8.2	91 30	-26.2	-34.4		6561.5		-761	+652	579,877	2,381,844
209	677	676.1	126 45	-	4.6	93 -	-35.4	-40.0		6555.9		-509	+445	580,129	2,381,637
210	370	368.4	115 25	-	1.2	95 24	-34.8	-36.0		6559.9		-224	+292	580,414	2,381,484
211	70		77 30	-	5.9	93 10	-3.9	-9.8		6586.1		±0	+70	580,638	2,381,262
π	0			+12.1	5.1	-		-5.1		6590.8	π	0	0	580,638	2,381,192
212	280		308 10	-	9.1	-		-9.1		6586.8		+215	-179	580,853	2,381,013
213	605		307 30	-	2.5	-		-2.5		6593.4		+461	-392	581,099	2,380,800
TP	706		293 48 34	-	6.5	89 10	+10.3	+3.8		6599.7	TP	+414	-572	581,052	2,380,620
TP	706			-	6.4	270 30	+10.3	+3.9			TP				
	326		65 33 15	-	5.3	-		+5.3	6605.0		BS	-70	-318		
	326			+12.1	3.7	84	+1.6	+5.3			BS				
214	188		65 50	-	11.8	-		-11.8		6593.2		+39	+184	581,021	2,380,486
π	0			-	5.1	-		-5.1		6599.9	π	0	0	580,982	2,380,302
215	138		251 30	+12.1	11.7	-		-11.7		6593.3		-15	-137	580,967	2,380,165

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALONAR		6834		B.S.		8		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15		UTAH		Wayne								W. Cass, Jr.	
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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6605.0						
TP	472		246° 05' 46"	12.1	10.0	74	+2.4	-7.6			TP	-97	-462	580,885	2,379,840
TP	472			-	7.7	-		-7.7		6597.3	TP				
	386		113° 31' 13"	-	6.9	88	-13.5	-6.6			BS	+225	-314		
	386			-	6.8	272	-13.5	-6.7	6590.6		BS				
216	379		109° 25'	12.1	7.1	88 20	+11.0	+3.9		6594.5		-198	+323	580,912	2,379,849
217	70		149° 10'		7.2	92 20	-2.8	-10.0		6580.6		-66	+22	581,044	2,379,548
κ	0			-	5.1	-		-5.1		6585.5	κ	0	0	581,110	2,379,526
# Bombay	480		286° 00' 40"	-	6.0	90 20	-2.8	-8.8		6581.8		+226	-423	581,336	2,379,103
218	136		3° 30'	12.1	8.1	90 20	-0.8	-8.9		6581.7		+131	+37	581,241	2,379,563
219	439		33° 30'		4.3	-		-4.3		6586.3		+307	+314	581,417	2,379,840
TP	596		32° 36' 36"	+12.4	10.4	-		-10.4		6580.2	TP	+421	+422	581,531	2,379,947
TP	596			-	13.4	74	+3.0	-10.4			TP				
	548	546.7	195° 02' 46"	-	11.0	86	-38.2	-27.2			BS	+485	+252		
	548			-	10.9	274	-38.2	-27.3	6552.9		BS				
220	377	376.1	193° 10'		12.8	86°	+26.3	+13.5		6566.4		-339	-162	581,677	2,380,036
221	62		174° 45'	12.4	5.0	91	-1.1	-6.1		6546.8		-62	-8	581,954	2,380,190
κ	0				5.1	-		-5.1		6547.8	κ	0	0	582,016	2,380,198
222	266	265.0	2° 05'	-	4.4	95	-23.2	-27.6		6525.3		+257	+66	582,273	2,380,264
223	594	592.6	5° 20'	-	14.0	94	-41.4	-55.4		6497.5		+564	+181	582,580	2,380,379

218 distance will be short between 217 - 218

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		WAYNE								W. Cassidy	
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
									6552.9						
TP	668	666.4	5° 48' 24"	12.4	10.7	94° -	-46.6	-57.3	}	6495.6	TP	+633	+208	582,649	2,380,405
TP	668			-	10.6	266° -	-46.6	-57.2		TP					
	592	591.4	216 38 52	-	4.4	87° 30'	-25.8	-21.4	}		BS	+388	+447		
	592			-	4.3	272° 30'	-25.8	-21.5		6474.1	BS				
224	330		216 35		5.4	87° 30'	+14.4	+9.0		6483.1		-217	-249	582,820	2,380,602
225	0			12.4	5.1	-		-5.1		6469.0	X	0	0	583,037	2,380,851
226	329		22 - 1	-	6.5	92° 10'	-12.4	-18.9		6455.2		+271	+186	583,308	2,381,037
TP	511		23 15 57	-	8.3	92° 10'	-19.3	-27.6	}	6446.5	TP	+415	+298	583,452	2,381,148
TP	511			-	8.2	267° 50'	-19.3	-27.5		TP					
	409	408.2	215 26 22	+12.17	11.5	86° 20'	-26.2	-14.7	}		BS	+272	+304		
	409				11.4	273° 40'	-26.2	-14.8		6431.7	BS				
227	267		209° 50'	-	3.0	88° 48'	+5.6	+2.6		6434.3		-197	-181	583,527	2,381,270
X	0			-	5.1	-		-5.1		6426.6	X	0	0	583,724	2,381,451
228	47		68° 50'	-	4.1	90° 50'	-0.7	-4.8		6426.9		+7	+46	583,731	2,381,497
229	373		73° 45'	-	1.3	90° 50'	-5.4	-6.7		6425.0		+23	+372	583,747	2,381,823
TP	559		71 29 28		4.8	89° 50'	+1.6	-3.2	}	6428.5	TP	+57	+556	583,781	2,382,006
TP	559			+12.17	4.7	270° 10'	+1.6	-3.1		TP					
	1148		202 07 10		5.5	89° -	-20.0	-14.5	}		BS	+942	+655		
	1148				5.4	271° -	-20.0	-14.6		6413.9	BS				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15		UTAH		Wayne								W. Cassidy	
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
									6413.9						
230	990		202° -	+12.7	6.8	89° -	+17.3	+10.5		6424.4		-814	-564	583.909	2,382,096
231	660		200° 55'	-	8.8	89° -	+11.5	+2.7		6416.6		-550	-365	584.173	2,382,295
232	330		201° 20'	-	5.3	89° -	+5.8	+0.5		6414.4		-273	-185	584.450	2,382,475
233	0			-	5.1	-		-5.1		6408.8	X	0	0	584.723	2,382,660
234	330		44° 50'	-	4.7	89° -	+5.8	+1.1		6415.0		+177	+278	584.900	2,382,938
TP	410		41° 31'	-	2.4	89° 10'	+6.0	+3.6		6417.5	TP	+240	+333	584.963	2,382,992
TP	410			-	2.4	270° 50'	+6.0	+3.6			TP		-		
	903		210° 07' 48"		+5.7	89° -	-15.8	-10.1			BS	+662	+614		
	903			+12.7	+5.6	271° -	-15.8	-10.2	6407.3		BS		-		
235	659		211° -		7.8	89° 10'	+9.6	+1.8		6409.1		-476	-455	585.149	2,383,156
236	330		210° 10'	-	5.2	89° 10'	+4.8	-0.4		6406.9		-242	-225	585.383	2,383,380
237	0			-	5.1	-		-5.1		6402.2	X	0	0	585.625	2,383,605 <i>ACROSS FLAG</i>
238	330		31° 30'	-	11.1	91° 10'	-6.7	-17.8		6389.5		+237	+230	585.862	2,383,835
239	660		32° 25'	-	4.7	91° -	-11.5	-16.2		6391.1		+466	+468	586.091	2,384,073
240	990		32° 30'	-	5.3	TH	+5.0	-0.3		6407.0		+698	+702	586.323	2,384,307
TP	1082		32° 08' 06"	+12.7	2.4	TH	+5.4	+3.0		6410.3	TP	+767	+763	586.392	2,384,357
TP	1082			-	2.3	TH 270°	+5.4	+3.1			TP		-		
	987		194° 09' 12"	-	5.0	TH	-4.9	+0.1			BS	+881	+446		
	987			-	4.9	TH 270°	-4.9	±0.0	6410.3		BS		-		

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR - 15'		UTAH		WAYNE								W. Cassidy	
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
									6410.3						
241	749		193° 20'	112.7	4.0	-		-4.0		6406.3		-673	-329	586,600	2,384,483
242	421		170° 30'	-	8.9	-		-8.9		6401.4		-387	-166	586,886	2,384,646
243	93		184° -		7.4	-		-7.4		6402.9		-89	-27	587,184	2,384,785
TP	0		°	-	5.1	-		-5.1		6405.2	TP	0	0	587,273	2,384,812
244	238		346° 10'	-	5.7	91° 20'	-5.5	-11.2		6399.1		+238	-5	587,511	2,384,807
245	566		344° 20'	12.1	5.6	91° 40'	-16.5	-22.1		6388.2		+565	-29	587,838	2,384,783
TP	636		344° 56'	-	4.5	91° 40'	-18.5	-23.0		6387.3	TP	+635	-26	587,768	2,384,785
TP	636			-	4.4	268° 20'	-18.5	-22.9			TP		-1		
	917		186° 06' 20"	112.5	6.5	89° 20'	-10.7	-4.2			BS	+869	+293		
	917			-	6.4	270° 40'	-10.7	-4.3	63830		BS		-1		
246	658		185° 05'		6.0	89° 10'	+9.6	+3.6		6386.6		-627	-199	588,150	2,384,878
247	329		184° 40'	-	9.6	88° 10'	+10.5	+0.9		63839		-314	-97	588,463	2,384,980
248	6			-	5.1	-		-5.1		6377.9	TP	0	0	588,777	2,385,077
249	327		358° 30'	-	6.0	91° 30'	-8.6	-14.6		6368.4		+321	+62	589,098	2,385,139
TP	502		359° 56' 55"	112.5	5.4	91° 16'	-10.2	-15.6		6367.4	TP	+490	+108	589,267	2,385,184
TP	502				5.3	268° 30'	-10.2	-15.5			TP		-1		
	1463	1451.4	179° 02' 56"	-	7.0	85° -	-127.5	-120.5			BS	+1498	+992		
	1463			-	6.9	275° -	-127.5	-120.6	6246.8		BS		-1		
250	1318	1313.9	177° 10'	-	4.7	85° 30'	+103.4	+98.7		6345.5		-1295	-221	589,400	2,385,254
251	989	986.6	177° 05'		5.8	86° -	+69.0	+63.2		6310.0		-973	-164	589,722	2,385,311

Access Sta.

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		WAYNE								W. Cassidy	
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
									6246.8						
252	660	658.4	177° 05'		10.6	86° -	+46.0	+35.4		6282.2		-649	-110	590,046	2,385,365
253	330	329.2	--	+12.5	9.9	86° -	+23.0	+13.1		6259.9		-325	-55	590,370	2,385,420
254	0			-	5.1	-		-5.1		6241.7	X	0	0	590,695	2,385,475
255	330		354° 10'	-	6.1	93° -	-17.3	-23.4		6223.4		+328	+38	591,023	2,385,513
256	642		2° 58'	-	15.0	92° 34'	-28.7	-43.7		6203.1		+619	+171	591,314	2,385,616
257	960		4° 17' 37"	-	5.8	91° 50'	-30.7	-36.5		6210.3	TP	+919	+277	591,614	2,385,751
257	960				5.7	268° 10'	-30.7	-36.4			TP		-1		
	951		203° 55' 27"	+12.5	3.0	TH	-4.8	-1.8			BS	+765	+565		
	951			+2.9	TH 270°		-4.8	-1.9	6208.4		BS		-1		
258	626		201° 10'	-	8.6	-		-8.6		6199.8		-521	-347	591,858	2,385,968
259	299		206° 50'	-	9.5	93° -	-15.6	-25.1		6183.3		-231	-190	592,148	2,386,125
X	0			-	5.1	-		-5.1		6203.3	X	0	0	592,379	2,386,315
260	41		90° 30'	-	5.0	-		-5.0		6203.4		-9	+40	592,370	2,386,355
261	331		75° 20'		11.1	86° 40'	+19.2	+8.1		6216.5		+13	+331	592,392	2,386,646
262	538		42° 50'	+12.5	5.7	88° 50'	+11.0	+5.3		6213.7		+306	+442	592,685	2,386,757
263	796		25° 10'	-	6.7	89° 30'	+6.9	+0.2		6208.6		+630	+486	593,009	2,386,801
264	884		4° 18'	-	5.6	90° 10'	-2.6	-8.2		6200.2		+846	+256	593,225	2,386,571
265	1110		350° 58'	-	8.0	90° 40'	-12.9	-20.9		6187.5		+1108	+67	593,487	2,386,382
266	1414		354° 45'	-	5.7	-		-5.7		6202.7		+1403	+178	593,782	2,386,493

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAM		THE SPUR-15'		UTAH		Wayne								W. Cassidy	
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
									6208.4						
TP	1518		356° 41' 25"	-	14.8	89° 30'	+13.2	-1.6		6206.8	TP	+1498	+242	593.877	2,386.556
TP	1518			-	14.7	270° 30'	+13.2	-1.5			TP		-1		
	775		169° 08' 16"	-	4.4			+4.4			BS	+775	+22		
	775			-	13.5	270° -		+4.3	6211.1		BS		-1		
267	578		162° 30'	-	4.6	91° 20'	-13.4	-18.0		6193.1		-576	+50	594.076	2,386.627
268	264		150° 10'	-	11.3	91° 20'	-6.1	-17.4		6193.7		-252	+79	594.400	2,386.656
π	0			-	5.1			-5.1		6206.0	π	0	0	594.652	2,386.577
269	84		14° 35'	-	6.2	93° 20'	-4.9	-11.1		6200.0		+75	+38	594.727	2,386.615
270	409	408.3	1° -	-	6.1	93° 20'	-23.8	-29.9		6181.2		+397	+95	595.049	2,386.672
271	715	714.3	348° 10'	+12.5	14.6	92° 30'	-31.2	-45.8		6165.3	TP	+714	+8	595.366	2,386.584
271	715				14.5	267° 30'	-31.2	-45.7			TP		-1		
	475	473.8	168° 52' 34"		6.1	86° -	-33.1	-27.0			BS	+474	+11		
	475			-	6.0	274° -	-33.1	-27.1	6138.2		BS		-1		
272	146		165° 50'	-	5.0	89° -	+2.5	-2.5		6135.7		-146	+4	595.694	2,386.598
π	0				5.1			-5.1		6133.1	π	0	0	595.840	2,386.594
273	191		21° 20'	+12.5	4.7	92° 30'	-8.3	-13.0		6125.2		+159	+106	595.999	2,386.700
274	519		16° 40'		7.0	92° 30'	-22.6	-29.6		6108.6		+453	+253	596.293	2,386.847
275	839		10° 35'	-	6.6	91° 40'	-24.4	-31.0		6107.2		+772	+329	596.612	2,386.923
TP	1044		14° 38' 22"	-	6.3	91° -	-18.2	-24.5		6113.7	TP	+929	+476	596.769	2,387.069
TP	1044			-	6.2	269° -	-18.2	-24.4			TP		-1		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	30			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
UTAH		THE SPUR-15'		UTAH		WAYNE					W. Cassidy			
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.	
										6113.7				
	771		223° 05' 57"	+12.5	5.4	88° 50'	-15.7	-10.3			BS	+436	+636	
	771				5.3	271° 10'	-15.7	-10.4	6103.3		BS		-1	
276	657		222° 35'	-	5.2	88° 40'	+15.3	+10.1		6113.4		-376	-539	596,829 2,387,165
277	329		220° 25'	-	8.1	-		-8.1		6095.2		-198	-262	597,007 2,387,442
278	18		302° 50'	-	8.3	-		-8.3		6095.0		+13	-13	597,218 2,387,691
TP	0			-	5.1	-		-5.1		6098.2	TP	0	0	597,205 2,387,704
279	332		19° 19'		6.2	91° 40'	-9.7	-15.9		6087.4		+282	+175	597,487 2,387,879
280	662	661.4	19° 26'	+12.5	12.7	92° 30'	-28.9	-41.6		6061.7		+561	+350	597,766 2,388,054
281	992		-	-	9.6	92° 10'	-37.5	-47.1		6056.2		+842	+525	598,047 2,388,229
282	1320		19° 14'	-	6.4	91° 50'	-42.2	-48.6		6054.7		+1123	+694	598,328 2,388,398
TP	1582	1581.5	17° 20' 43"		6.5	91° 30'	-41.4	-47.9		6055.4	TP	+1372	+787	598,577 2,388,490
TP	1582			-	6.4	268° 30'	-41.4	-47.8			TP		-1	
	524		200° 05' 05"	-	3.2	89° -	-9.1	-5.9	6049.5		BS	+441	+282	
	524				3.2	271° -	-9.1	-5.9			BS		-1	
283	464		201° 35'		5.2	89° -	+8.1	+2.9		6052.4		-384	-260	598,634 2,388,511
284	138		191° -	+12.5	4.2	89° -	+2.4	-1.8		6047.7		-127	-55	598,891 2,388,716
TP	0				5.1	-		-5.1		6044.4	TP	0	0	599,018 2,388,771
285	189		8° 20'	-	5.3	92° -	-6.6	-11.9		6037.6		+177	+67	599,195 2,388,838 92° O.G.C.
286	514		0° 30'	-	9.3	91° 40'	-14.9	-24.2		6025.3		+501	+116	599,519 2,388,887

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO	PAGE					
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	31					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
UTAH		THE SPUR-15	UTAH	WAYNE				W. Cassidy								
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	
												LAT.	DEP.			
TP	788		4° 59' 22"	+12.5	10.8	91° 40'	-22.9	-33.7	6049.5	6015.8	TP	+751	+237	599,769	2,389,007	
TP	788				10.7	268° 20'	-22.9	-33.6			TP		-1			
	1629	1628.3	177° 33' 51"	-	3.8	91° 40'	+47.4	+51.2			BS	+1603	+285			
	1629			-	3.5	268° 20'	+47.4	+50.9	+51.2, 6066.8		BS		-1			
287	1579	1578.2	177° 20'	-	2.7	91° 50'	-50.5	-53.2		6013.6		-1555	-270	599,817	2,389,021	
288	1252	1250.3	176° 35'	-	5.1	93° -	-65.5	-70.6		5996.2		-1235	-197	600,137	2,389,094	
289	928	925.6	173° 46'		5.5	94° 10'	-67.4	-72.9		5993.9		-920	-99	600,452	2,389,192	
290	603	600.4	172° -	-	6.4	95° 20'	-56.0	-62.4		6004.4		-599	-47	600,773	2,389,244	
291	273	271.0	169° -	+12.5	6.2	97° -	-33.3	-39.5		6027.3		-271	-7	601,101	2,389,284	
π	0				5.1	-		-5.1		6061.7	π	○	○	601,372	2,389,291	
292	59		2° 50'	-	3.9	89° 30'	+0.5	-3.4		6063.4		+57	+16	601,429	2,389,307	
293	388		359° 25'	-	8.0	-		-8.0		6058.8		+380	+80	601,752	2,389,371	
294	718		357° 50'	-	11.1	BH	-3.6	-14.7		6052.1		+706	+129	602,078	2,389,420	
295	1047		358° 30'		7.6	-		-7.6		6059.2		+1028	+200	602,400	2,389,491	
296	1357		33° 27' 09"	+12.5	7.7	-		-7.7	-261	6059.2	TP	+1305	+373	602,677	2,389,663	
296	1357				7.4	270° -		-7.4			TP		-1			
	1199		189° 04' 40"		11.8	89° -	-20.9	-9.1			BS	+1115	+441			
	1199		1	-	11.7	271° -	-20.9	-9.2	6050.0		BS					
297	871		187° -	-	7.0	89° 20'	+10.1	+3.1		6053.1		-821	-291	602,971	2,389,813	
298	548		181° 20'	-	5.2	89° 10'	+8.0	+2.8		6052.8		-532	-131	603,260	2,389,973	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		WAYNE								W. Cassidy	
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
									6050.0						
299	220		175° 20'		4.5	89° 10'	+3.2	-1.3		6048.7		-218	-30	603,574	2,390,074
X	0				5.1	-		-5.1		6044.9	X	0	0	603,792	2,390,104
300	113		10° 40'	+12.5	4.4	93° 30'	-6.9	-11.3		6038.7		+104	+44	603,896	2,390,148
301	441	440.2	7° 50'		9.6	93° 30'	-26.9	-36.5		6013.5		+413	+153	604,205	2,390,257
302	771	769.6	8° 30'	-	3.3	93° 30'	-47.1	-50.4		5999.6		+718	+276	604,510	2,390,380
303	1099	1097.5	9° 15'	-	2.7	93° -	-57.5	-60.2		5989.8		+1019	+407	604,811	2,390,511
304	1407	1405.5	4° 15'	-	7.8	92° 46'	-65.5	-73.3		5976.7		+1346	+405	605,138	2,390,509
TP	1525	1523.6	2° 56' 10"		12.1	92° 30'	-66.5	-78.6		5971.4	TP	+1469	+406	605,261	2,390,510
TP	1525				12.0	267° 30'	-66.5	-78.5			TP				
	417		182° 47' 05"	+12.5	6.3	88° 40'	-9.7	-3.4			BS	+402	+110		
	417			-	6.2	271° 20'	-9.7	-3.5	5967.9		BS				
305	208		184° 35'	-	4.1	90° 10'	-0.6	-4.7		5963.2		-199	-61	605,464	2,390,559
X	0			-	5.1	-		-5.1		5962.8	X	0	0	605,663	2,390,620
306	121		42° 45'		3.2	88° 40'	+2.8	-0.4		5967.5		+69	+99	605,732	2,390,719
307	451		-		4.6	88° 40'	+10.5	+5.9		5973.8		+257	+371	605,920	2,390,991
TP	526		37° 05' 57"	+12.5	4.5	88° 10'	+16.8	+12.3		5980.2	TP	+341	+400	606,004	2,391,020
TP	526				4.5	271° 50'	+16.8	+12.3			TP				
	426		145° 44' 38"	-	3.4	93° -	+22.3	+25.7	6005.9		BS	+395	-158		
	426			-	3.4	267° -	+22.3	+25.7			BS				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-3-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		Wayne								W. Cassidy	
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
									6005.9						
308	186		142° 45'	-	5.3	93° -	-9.7	-15.0		5990.9		-169	+78	606,230	2,390,940
X	0			+12.5	5.1	-		-5.1		6000.8	X	0	0	606,399	2,390,862
309	137		309 20	-	4.2	89° 10'	+2.0	-2.2		6003.7		+108	-85	606,507	2,390,777
TP	368		308 02 04	-	3.2	88° 10'	+11.8	+8.6		6014.5	TP	+284	-234	606,683	2,390,628
TP	368			-	3.2	271° 50'	+11.8	+8.6			TP				
	747		163 14 -	-	4.7	88° 30'	-19.6	-14.9			BS	+745	-56		
	747				4.6	271° 30'	-19.6	-15.0	5999.5		BS				
310	652		164 35	+12.5	5.7	88° 40'	+15.2	+9.5		6009.0		-651	+33	606,777	2,390,605
311	328		157° 50		4.4	89° 20'	+3.8	-0.6		5998.9		-323	+55	607,105	2,390,627
312	0			-	5.1	-		-5.1		5994.4	X	0	0	607,428	2,390,572
313	330		326 10	-	5.9	-		-5.9		5993.6		+307	-120	607,735	2,390,452
314	660		- 1 -	-	11.8	BM	-3.3	-15.1		5984.4		+615	-240	608,043	2,390,332
TP	754		326 56 33		13.6	-		-13.6		5985.9	TP	+706	-265	608,134	2,390,307
TP	754				13.5	270° -		-13.5			TP				
	331		158 40 14		+0.8	TM	-1.7	-0.9			BS	+327	-51		
	331			+12.5	+0.7	TM 270° -	-1.7	-1.0	5984.9		BS				
315	102		145° -		2.7	-		-2.7		5982.2		-94	+39	608,367	2,390,295
X	0				5.1	-		-5.1		5979.8	X	0	0	608,461	2,390,256
316	217		316 10	-	8.4	91° 30'	-5.7	-14.1		5970.8		+185	-113	608,646	2,390,143

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	11-4-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B.S.	LINE NO.	8	PAGE	34	
AREA	UTAH	TOPO MAP	THE SPUR-15	STATE	UTAH	COUNTY	Wayne	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

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				
									5984.9										
TP	422		315° 16' 47"	-	3.2	91° 20'	-9.8	-13.0		5971.9	TP	+357	-235	608,818	2,390,031				
TP	422				3.2	268° 40'	-9.8	-13.0			TP								
	605		179° 49' 35"	+12.5	9.2	91° 30'	+15.8	+25.0			BS	+591	+129						
	605			-	9.1	268° 30'	+15.8	+24.9	5996.8		BS								
317	473		179° 25'	-	5.4	91° 30'	-12.4	-17.8		5979.0		-463	-98	608,946	2,390,062				
318	146		172° 50'	-	12.6	91° 30'	-3.8	-16.4		5980.4		-145	-14	609,264	2,390,146				
X	0				5.1	-		-5.1		5991.7	X	0	0	609,409	2,390,160				
319	172		12° 50'		3.6	91° 30'	-4.5	-8.1		5988.7		+155	+74	609,564	2,390,234				
TP	392		17° 55' 16"	+12.5	12.5	91° -	-6.8	-19.3		5977.5	TP	+338	+198	609,747	2,390,358	sc			
TP	392				12.5	269° -	-6.8	-19.3			TP								
	769		161° 05' 58"	-	12.4	BH	+3.8	+16.2			BS	+764	-86						
	769			-	12.3	BH 270°	+3.8	+16.1	5993.6		BS								
320	681		160° -	-	8.7	91° -	-11.9	-20.16		5973.0		-675	+89	609,836	2,390,361				
321	423		180° 50'	-	12.0	91° 34'	-11.6	-23.6		5970.0		-412	-98	610,099	2,390,174				
322	117		179° 45'		6.4	95° 40'	-11.6	-18.0		5975.6		-114	-25	610,397	2,390,247				
X	0				5.1	-		-5.1		5988.5	X	0	0	610,511	2,390,272				
323	214		13° 10'	+12.5	4.2	91° 30'	-5.6	-9.8		5983.8		+193	+93	610,704	2,390,365				
324	509		347° 50'	-	5.6	88° 40'	+11.8	+6.2		5999.8		+509	+3	611,020	2,390,278				
TP	802		351° 47' 52"	-	11.1	88° 10'	+25.7	+14.6		6008.2	TP	+799	+60	611,310	2,390,332	45 %			
TP	802				11.0	271° 50'	+25.7	+14.7			TP								

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-4-85		B. G. Camp		B. SALOWAR		6834		B.S.		8		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		Wayne								W. Cassidy	
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
									6008.2						
	908	906.3	174° 19' 35"	-	+5.1	93° 30'	+55.4	+60.5	6068.6		BS	+900	+108		
	908				+5.0	266° 30'	+55.4	+60.4			BS				
325	874	872.4	174° 10'	1215	6.0	93° 30'	-53.4	-59.4		6009.2		-867	-101	611,343	2,390,339
326	544	542.6	171° 32'		5.4	94° 10'	-39.5	-44.9		6023.7		-541	-38	611,669	2,390,402
327	234		156° -		10.0	94° 10'	-17.0	-27.0		6041.6		-229	+47	611,981	2,390,487
π	0				5.1	-		-5.1		60635	π	0	0	612,210	2,390,440
328	129		282° 10'		5.6	91° 40'	-3.8	-9.4		6059.2		+54	-117	612,264	2,390,323
329	363		337° 30'		8.5	87° -	+19.0	+10.5		6079.1		+357	-63	612,567	2,390,377
TP	585	583.9	351° 21' 46"	1215	10.2	86° 30'	+35.7	+25.5		6094.1	TP	+583	+39	612,793	2,390,479
TP	585				10.1	273° 30'	+35.7	+25.6			TP				
	1072	1070.5	183° 50' 18"		+9.5	90° -	+56.1	+65.6	6159.6		BS	+1027	+301		
	1072				+9.4	267° -	+56.1	+65.5			BS				
330	1015	1013.5	183° 40'		7.1	93° 10'	-56.1	-63.2		6096.4		-973	-282	612,847	2,390,498
331	685	684.0	184° 15'		6.5	93° 10'	-37.8	-44.3		6115.3		-655	-197	613,165	2,390,583
332	358	357.1	185° 40'		8.5	94° 10'	-26.0	-34.5		6125.1		-339	-111	613,481	2,390,669
333	63		175° 50'		7.9	94° 10'	-4.6	-12.5		6147.1		-62	-9	613,758	2,390,771
π	0			1215	5.1	-		-5.1		6154.5	π	0	0	613,820	2,390,780
334	270		325° -		6.0	89° 10'	+3.9	-2.1		6157.5		+249	-103	614,069	2,390,677
335	547		351° 10'		8.1	87° 40'	+22.3	+14.2		6173.8		+546	+35	614,366	2,390,815

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	11-4-85	INSTRUMENT MAN	B. Gotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B.S.	LINE NO.	8	PAGE	36	
AREA	UTAM	TOPO MAP	THE SPUR-15	STATE	UTAM	COUNTY	WAYNE	TWP		RANGE		PPM	PARTY MANAGER	W. CASSIDY

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.	
									6159.6					
TP	728	121.3	353° 14' 45"		10.5	87° 30'	+31.8	+21.3		6180.9	TP	+724	+73	614,544 2,390,855
TP	728			+12.5	10.4	272° 30'	+31.8	+21.4			TP			
	2707	2706.3	169° 56' 33"		+7.2	91° 20'	+63.0	+70.2			BS	+2704	+115	
	2707			-	+7.1	268° 40'	+63.0	+70.1	62510		BS			
336	2572	2571.1	169° 33'	-	8.8	91° 30'	-67.3	-76.1		6174.9		-2569	-92	614,679 2,390,880
337	2243	2241.8	169° 44'	-	8.0	91° 54'	-74.4	-82.4		6168.6		-2240	-87	615,008 2,390,885
338	1915	1914.0	170° 50'	-	9.0	91° 54'	-63.5	-72.5		6178.5		-1911	-111	615,337 2,390,861
339	1586	1585.1	171° 40'	-	8.8	91° 54'	-52.6	-61.4		6189.6		-1581	-115	615,667 2,390,857
340	1256	1255.0	172° -	+12.5	7.5	92° 20'	-51.1	-58.6		6192.4		-1251	-98	615,997 2,390,874
341	927	925.9	172° 10'	-	7.1	92° 50'	-45.8	-52.9		6198.1		-923	-75	616,325 2,390,897
342	598	597.3	-	-	7.8	92° 50'	-29.6	-37.4		6213.6		-595	-49	616,653 2,390,923
343	269		170° 20'	-	5.3	92° 50'	-13.3	-18.6		6232.4		-269	-13	616,979 2,390,959
X	0			-	5.1	-		-5.1		6245.9	X	0	0	617,248 2,390,972
344	61		357° 40'	-	4.0	91° 50'	-2.0	-6.0		6245.0		+60	+11	617,308 2,390,983
345	385		341° -	-	5.3	92° 30'	-16.8	-22.1		6228.9		+383	-44	617,631 2,390,928
346	712		344° -	+12.5	7.3	91° 50'	-22.8	-30.1		6220.9		+711	-43	617,959 2,390,929
347	1040		345° 10'	-	6.9	91° 10'	-21.2	-28.1		6222.9		+1039	-42	618,287 2,390,930
348	1343		350° 15'	-	5.0	90° 52'	-20.3	-25.3		6225.7		+1341	+64	618,589 2,391,036
Δ	1537		2° 53' 55"	-	4.6	89° 10'	+22.4	+17.8		6268.8	Δ	+1482	+408	618,730 2,391,380

618,730 x 2,391,380
 THE SPUR Δ EL. 62660
 MARK HAS BEEN
 DISTURBED
 HORIZ. = 25
 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			
11-4-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR - 15'		UTAH		WAYNE								W. Cassidy	
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 TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6251.0						
349	1650		353° 50'	-	12.7	90° 10'	-4.8	-17.5		6233.5		+1640	+182	618,888	2,391,154
TP	1717		353° 23' 38"	12.5	10.4	90° 20'	-10.0	-20.4		6230.6	TP	+1708	+176	618,956	2,391,148
TP	177				10.3	269° 40'	-10.0	-20.3			TP				
	594		177° 23' 04"	-	+8.8	88° -	-20.7	-11.9	6218.7		BS	+585	+102		
	594			-	+8.8	272° -	-20.7	-11.9			BS				
350	330		177° 20'	-	10.7	88° -	+11.5	+0.8		6219.5		-325	-56	619,214	2,391,194
351	0			-	5.1	-		-5.1		6213.6	TP	0	0	619,539	2,391,250
352	330		348° -	-	9.0	93° -	-17.3	-26.3		6192.4		+330	+3	619,869	2,391,253
353	660	659.1	347° 05'	-	6.0	93° -	-34.5	-40.5		6178.2		+659	-5	620,198	2,391,245
354	990	989.1	346° 40'	-	7.5	92° 30'	-43.2	-50.7		6168.0		+989	-14	620,528	2,391,236
355	1319	1317.9	346° 41' 25"	12.5	3.4	92° 20'	-53.7	-57.1		6161.6	TP	+1318	-19	620,854	2,391,233
355	1319				3.3	267° 40'	-53.7	-57.0			TP	-3	+2		
	1389		161° 22' 16"	-	+10.5	90° 30'	+12.1	+22.6			BS	+1381	-148		
	1389			-	+10.4	269° 30'	+12.1	+22.5	6184.1		BS	-3	+3		
356	1061		160° 05'	-	7.4	91° -	-18.5	-25.9		6158.2		-1052	+137	621,180	2,391,225
357	732		157° 50'	-	8.7	91° -	-12.8	-21.5		6162.6		-722	+123	621,510	2,391,211
358	405		153° 20'	-	11.0	-		-11.0		6173.1		-393	+99	621,839	2,391,187
359	77		140° -	-	8.0	-		-8.0		6176.1		-68	+36	622,464	2,391,124
TP	0			-	5.1	-		-5.1		6179.0	TP	0	0	622,332	2,391,088
360	259		349° 05'	12.5	9.4	-		-9.4		6174.7		+259	+7	622,491	2,391,095

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-4-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR -15		UTAH		Wayne								W. Cassidy	
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
									6184.1						
361	589		349° 10'		5.1	89° 20'	+6.9	+1.8		6185.9		+589	+17	622821	2,391,105
362	917		350° 55' 05"	12.5	9.5	88° 46'	+19.7	+10.2		6194.3	TP	+915	+55	623,144	2,391,146
362	917			-	9.4	271° 14'	+19.7	+10.3			TP	-3	+3		
	1014		186° 00' 18"		+1.7	89° -	-17.7	-16.0			BS	+961	+322		
	1014			-	+1.6	271° -	-17.7	-16.1	6178.2		BS	-3	+3		
363	684		185° 45'	-	5.3	89° -	+11.9	+6.6		6184.8		-650	-214	6233452	2,391,257
364	363		177° 55'		5.4	91° 20'	-8.4	-13.8		6184.4		-357	-666	6237415	2,391,405
365	36		184° 10'	12.5	4.6	91° 20'	-0.8	-5.4		6172.8		-34	-10	624069	2,391,461
X	0				5.1	-		-5.1		6173.1	X	0	0	624,102	2,391,471
366	295		17° 10'		7.2	91° 20'	-6.9	-14.1		6164.1		+256	+146	624358	2,391,617
367	625		15° 55'	-	12.0	91° 20'	-14.5	-26.5		6151.7		+550	+297	624652	2,391,768
368	953		16° 35' 10"	-	4.5	91° 20'	22.2	-26.7		6151.5	TP	+833	+463	624932	2,391,937
368	953			-	4.4	268° 40'	22.2	-26.6			TP	-3	+3		
	1459		198° 19' 06"		+5.3	74° -	-7.3	-2.0			BS	+1253	+747		
	1459				5.2	74° 27° -	-7.3	-2.1	6149.4		BS	-3	+3		
369	1131		199° 10'	+2.5	8.9	84° -	+5.7	-3.2		6146.2		-963	-594	625219	2,392,093
370	802		200° 30'		9.9	91° -	-14.0	-24.0		6125.4		-693	-437	625509	2,392,250
371	472		201° 05'	-	12.2	91° -	-8.2	-20.4		6129.0		-393	-261	625789	2,392,426
372	143		196° 40'	-	6.6	91° -	-2.5	-9.1		6140.3		-125	-70	626057	2,392,617
X	0				5.1	-		-5.1		6144.3	X	0	0	626,182	2,392,687

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotamp		B. SALDIVAR		6834		B.S.		8		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15		UTAH		Wayne								W. Cassidy	
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
									6149.4						
373	189		25° 05'	-	5.6	94° -	-13.2	-18.8		6130.6		+150	+115	626332	2,392,802
374	515		26° 30'	+2.5	10.7	91° 20'	-12.0	-22.7		6126.7		+400	+324	626582	2,393,011
375	830		18° 10'		8.4	91° 20'	-19.3	-27.7		6121.7		+714	+423	626896	2,393,116
376	1148		16° -	-	12.1	90° 54'	-18.0	-30.1		6119.3		+1009	+548	627191	2,393,235
377	1477		15° 45'	-	10.3	90° 50'	-21.5	-31.8		6117.6		+1301	+699	627483	2,393,386
378	1804		13° 34' 20"	-	2.0	90° 50'	-26.2	-28.2			TP	+1600	+793	627799	2,393,485
378	1804				2.1	269° 10'	-26.2	-28.3		6121.1	TP	-3	+3		
	1943		151° 44' 07"		+14.3	-		+14.3	6135.4		BS	+1870	-528		
	1943			+12.5	+14.3	270° -		+14.3			BS	-3	+3		
379	1688		145° 05'		9.7	90° 10'	-4.9	-14.6		6120.8		-1560	+644	628106	2,393,602
380	1383		140° 25'	-	6.7	90° 10'	-4.0	-10.7		6124.7		-1231	+630	628435	2,393,588
381	1114		132° 15'	-	11.0	90° 10'	-3.2	-14.2		6121.2		-910	+643	628756	2,393,601
382	902		117° 55'	-	4.3	91° 16'	-18.4	-22.7		6112.7		-585	+582	629081	2,393,545
383	647		102° 20'	-	7.9	91° 10'	-13.2	-21.1		6114.3		-272	+587	629394	2,393,545
384	327		94° 05'		10.7	-		-10.7		6124.7		-93	+313	629573	2,393,271
385	19		195° -		6.3	-		-6.3		6129.1		-17	-9	629649	2,392,749
X	6			+12.5	5.1	-		-5.1		6130.3	X	0	0	629666	2,392,958
386	311		304° -	-	6.0	93° -	-16.3	-22.3		6113.1		+226	-214	629892	2,392,744
387	609	608.4	322° 25'	-	11.8	92° 30'	-26.6	-38.4		6097.0		+551	-258	630217	2,392,700
388	934	933.0	326° 05'		11.5	92° 38'	-42.9	-54.4		6081.0		+869	-341	630535	2,392,617

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		Wayne								W. Cassidy	
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
									6135.4						
389	1256	1254.8	324° 10'		6.0	92° 30'	-54.8	-60.8		6074.6		+1152	-497	630,818	2,392,461
390	1570	1568.9	327° 40'	+12.5	6.7	92° 10'	-59.4	-66.1		6069.3		+1476	-532	631,142	2,392,426
391	1900	1899.2	328° -	-	10.1	91° 40'	-55.3	-65.4		6070.0		+1190	-634	631,456	2,392,324
392	2228	2227.1	328° 10'	-	8.2	91° 40'	-64.8	-73.0		6062.4		+2102	-737	631,768	2,392,221
393	2554	2552.9	329° 11' 10"	-	8.0	91° 40'	-74.3	-82.3			TP	+2424	-802	632,087	2,392,159
393	2554			-	8.1	268° 20'	-74.3	-82.4		6053.0	TP	-3	+3		
	2928	2926.0	135° 43'		+14.2	87° 54'	-107.3	-93.1	5959.9		BS	+2487	-1541		
	2928				+14.3	272° 06'	-107.3	-93.0			BS	-3	+3		
394	2599	2597.3	135° 38'	+12.5	12.1	87° 56'	+93.7	+81.6		6041.5		-2206	+1371	632,365	2,391,992
395	2276	2268.6	135° 10'	-	7.6	88° -	+79.2	+71.6		6031.5		-1917	+1213	632,454	2,391,834
396	1941	1939.8	134° 35'	-	6.3	88° -	+67.7	+61.4		6021.3		-1628	+1054	632,943	2,391,675
397	1615	1614.0	132° 55'	-	9.0	88° -	+56.4	+47.4		6007.3		-1329	+916	633,242	2,391,537
398	1290	1289.2	130° 50'	-	11.3	88° -	+45.0	+33.7		5993.6		-1034	+770	633,537	2,391,391
399	964	963.4	128° 25'		11.5	88° -	+33.6	+22.1		5982.0		-748	+607	633,823	2,391,228
400	635		126° 10'		8.1	88° -	+22.2	+14.1		5974.0		-477	+419	634,094	2,391,040
401	306		123° 20'		6.4	88° -	+10.7	+4.3		5964.2		-220	+213	634,351	2,390,834
Σ	0			+12.5	5.1	-		-5.1		5954.8	Σ	0	0	634,571	2,390,621
402	59		231° 25'	-	6.6	91° 10'	-1.2	-7.8		5952.1		-26	-53	634,545	2,390,568
403	318	315.4	317° 30'	-	6.4	97° 20'	-40.6	-49.0		5912.9		+273	-158	634,844	2,390,463
404	646	637.9	319° 45'		5.5	94° 46'	-52.1	-57.6		5902.3		+565	-297	635,136	2,390,324

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotnam		B. SALDIVAR		6834		B.S.		8		211			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15		UTAH		Wayne								W. Cassidy	
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
									5959.9						
405	963	960.7	319° 50'		3.9	94° -	-67.2	-71.1		5888.8		+851	-446	635,422	2,390,175
406	1273	1270.9	318° 30'		5.4	93° 20'	-74.0	-79.4		5880.5		+1112	-616	635,483	2,390,005
407	1585	1582.8	322° 05'		4.5	93° -	-83.0	-87.5		5872.4		+1430	-629	636,001	2,389,942
408	1909	1907.4	320° 30'		7.9	92° 20'	+77.7	-85.6		5874.3		+1700	-866	636,271	2,389,755
409	2218	2217.1	320° 55'		6.4	91° 40'	-64.5	-70.9		5889.0		+1983	-992	636,554	2,389,629
410	2455		316° 30'		4.7	90° 46'	-32.8	-37.5		5922.4		+2104	-1264	636,695	2,389,357
411	2718		312° 08'		6.3	90° 48'	-37.9	-44.2		5915.7		+2216	-1573	636,787	2,389,048
2800	2800		311° 24' 46"		16.3	90° 44'	-35.8	-46.1		5913.8		+2263	-1649	636,834	2,388,972
TP	2926		311° 11' 16"		13.7	90° 44'	-37.4	-51.1		5908.8	TP	+2358	-1733	636,926	2,388,891
TP	2926				13.6	269° 16'	-37.4	-51.0			TP	-3	+3		
	947	746.4	143° 38' 40"		+5.1	88° -	-33.0	-27.9			BS	+866	-383		
	947				+5.0	272° -	-33.0	-28.0	5880.8		BS	-3	+3		
412	832		144° -		5.9	88° -	+29.0	+23.1		5903.9		-763	+332	637,026	2,388,843
413	562		144° 40'		6.4	88° -	+17.5	+11.1		5891.9		-463	+195	637,326	2,388,706
414	174		145° 50'		4.7	88° -	+6.1	+1.4		5882.2		-162	+64	637,427	2,388,575
Σ	0				5.1	-		-5.1		5875.7	Σ	0	0	637,789	2,388,511
415	154	153.4	319° 10'		5.2	95° -	-13.4	-18.6		5862.2		+135	-73	637,924	2,388,438
416	482	480.5	320° 30'		5.5	94° 30'	-37.8	-43.3		5837.5		+428	-218	638,217	2,388,293
417	748	744.6	336° 25'		5.6	95° 30'	-71.7	-77.3		5803.5		+731	-143	638,520	2,388,348

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR - 15		UTAH		WAYNE								W. Cassidy	
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
									5880.8						
TP	868	864.2	334° 02' 38"	-	5.2	95° 20'	-80.7	-85.9			TP	+841	-201	638,628	2388.312
TP	868			+12.5	5.1	264° 40'	-80.7	-85.8		5795.0	TP	-2	+2		
	1866	1865.2	131° 44' 48"	-	3.0	88° 20'	-54.3	-51.3			BS	+1514	-1090		
	1866			-	2.9	271° 40'	-54.3	-51.4		5743.6	BS	-2	+2		
418	1663		132° 15'	-	11.7	88° 30'	+43.5	+31.8		5775.4		-1358	+960	638782	2388.184
419	1335		132° 50'	-	9.8	88° 30'	+34.9	+25.1		5768.7		-1098	+759	639042	2387.983
420	1018		137° -	-	3.9	88° 20'	+29.6	+25.7		5769.3		-877	+517	639263	2387.741
421	704		136° 15'	-	5.4	89° -	+12.3	+6.9		5750.5		-602	+365	639538	2387.589
1/2	401		140° 22' 22"	+12.5	4.6	89° -	+7.0	+2.4		5746.0		-357	+183	639783	2387.407
422	390		139° 10'	-	4.5	89° -	+6.8	+2.3		5745.9		-343	+185	639797	2387.409
423	182		84° 30'	-	5.2	94° 20'	-13.8	-19.0		5724.6		-22	+181	640,118	2387.405
X	0			-	5.1	-		-5.1		5738.5	X	0	0	640,140	2387.224
424	358		17° 50'	-	3.6	94° 20'	-27.1	-30.7		5712.9		+309	+181	640,449	2387.405
425	670	668.9	6° 10'	-	5.1	93° 20'	-39.0	-44.1		5699.5		+634	+214	640,774	2387.438
426	998	996.3	4° 35'	+12.5	6.5	93° 20'	-58.0	-64.5		5679.1		+952	+293	641,092	2387.517
427	1307	1305.4	359° 45'	-	3.5	92° 50'	-64.16	-68.1		5675.5		+1276	+277	641,416	2387.501
428	1632	1630.8	358° 30'	-	12.1	92° 10'	-61.7	-73.8		5669.8		+1601	+311	641,741	2387.535
429	1958	1957.3	357° 40'	-	7.0	91° 30'	-51.3	-58.3		5685.3		+1927	+345	642,067	2387.569
430	2224	2223.2	2° 15'	-	8.1	91° 30'	-58.2	-66.3		5677.3		+2150	+566	642,290	2387.790
431	2473	2471.8	7° 05'	-	9.2	91° 46'	-76.2	-85.4		5658.2		+2329	+828	642,469	2388.052

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotamp		B. SALDIVAR		6834		D.S.		8		93			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SAAR-15'		UTAH		Wayne								W. Cassidy	
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
									5743.6						
432	2763	2761.6	10 -		7.2	91° 50'	-88.4	-95.6		5648.0		+2551	+1057	642,691	2,388,281
433	3063	3061.7	9° 30'	+12.5	7.2	91° 40'	-89.1	-96.3		5647.3		+2839	+1147	642,979	2,388,371
434	3370	3368.9	8° 32'		6.6	91° 30'	-88.2	-94.8		5648.8		+3144	+1209	643,284	2,388,433
TP	3498	2796.8	8° 46' 03"	-	1.6	91° 30'	-91.6	-93.2	-93.8	5650.2	TP	+3261	+1263	643,399	2,388,489
TP	3498			-	1.9	268° 30'	-91.6	-93.5			TP	-2	+2		
	1350		182° 24' 26"	-	6.1	TH	-6.8	-0.7			BS	+1305	+347		
	1350			-	6.0	TH 270°	-6.8	-0.8	5649.4		BS	-2	+2		
435	1152		184° 20'	-	11.3	-		-11.3		5638.1		-1103	-334	643,599	2,388,509
436	847		177° 05'		12.8	BH	-4.2	-8.6		5640.8		-835	-141	643,869	2,388,697
437	534		177° 30'	+12.5	6.0	91° 40'	-15.5	-21.5		5627.9		-626	-93	644,176	2,388,745
438	240	239.0	153° 05'	-	5.0	95° 10'	-21.6	-26.6		5622.8		-231	+60	644,471	2,388,898
X	0			-	5.1	-		-5.1		5644.3	X	0	0	644,702	2,388,838
439	150	149.2	40 -	-	3.9	96 -	-15.7	-19.6		5629.8		+91	+118	644,793	2,388,956
440	448		16° 45'		4.5	92° 10'	-16.9	-21.4		5628.0		+412	+177	645,114	2,389,015
441	674		352° 45'		4.6	89° 50'	+2.0	-2.0		5647.4		+691	+62	645,373	2,388,900
442	922		339° 40'	+12.5	5.3	88° 10'	+29.5	+24.2		5673.6		+913	-126	645,615	2,388,712
443	1177	1175.6	329 -		3.0	87° 10'	+58.2	+55.2		5704.6		+1115	-373	645,817	2,388,465
TP	1243	1240.2	315° 10' 47"	-	8.5	86° 10'	+83.1	+74.6	}	5724.0	TP	+1048	-663	645,748	2,388,177
TP	1243			-	8.4	273° 50'	+83.1	+74.7			TP	-2	+2		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11-6-85		B. Cotamp		B. SALDIVAR		6834		B.S.		8		2/4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH		THE SPUR-15'		UTAH		WAYNE								W. Cassidy	
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
									5724.0						
	612		141° 57' 15"		+ 8.9	91° 30'	+16.0	+24.9	5748.9		BS	+552	-264		
	612				+ 8.8	268° 30'	+16.0	+24.8			BS	-2	+2		
444	618		143° 30'	+12.5	5.4	91° 50'	-19.8	-25.2		5723.7		-565	+251	645733	2,388,166
445	680		171° 44'		3.7	91° 30'	-17.8	-21.5		5727.4		-678	-50	645620	2,387,865
446	463		192° 05'		12.0	91° 30'	-12.1	-24.1		5724.8		-421	-193	645877	2,387,722
447	156	155.4	188° 30'		4.1	95° 10'	-14.0	-18.1		5730.8		-145	-56	646153	2,387,859
π	0				5.1	-		-5.1		5743.8	π	0	0	646,298	2,387,915
448	163		7° 40'		6.5	92° 30'	-7.1	-13.6		5735.3		+153	+56	646,451	2,387,971
449	368		7° 04' 18"	+12.5	2.9	91° 30'	-9.6	-12.5		5736.4		+347	+123	646,615	2,388,038
449	455		356° 20'		5.9	91° 10'	-9.3	-15.2		5733.7		+450	+70	646,748	2,387,985
450	729		338° 50'		12.0	90° 48'	-10.2	-22.2		5726.7		+721	-110	647,019	2,387,805
451	1015		327° 52' 14"		4.6	90° 30'	-8.9	-13.5		5735.4	TP	+956	-341	647,252	2,387,576
451	1015				4.5	269° 30'	-8.9	-13.4			TP	-2	+2		
	999		120° 45' 37"	+12.5	+ 9.0	89° -	-17.4	-8.4	5727.0		BS	+685	-727		
	999				+ 8.9	271° -	-17.4	-8.5			BS		+2		
452	701		127° 40'		7.7	90° 50'	-10.2	-17.9		5709.1		-538	+449	647,397	2,387,300
453	404		142° 30'		4.9	98° 30'	-24.7	-29.6		5697.4		-366	+171	647,569	2,387,022
454	119		143° 40'		8.0	93° 30'	-7.3	-15.3		5711.7		-109	+48	647,826	2,386,899
π	0				5.1	-		-5.1		5721.9	π	0	0	647,935	2,386,851
455	185		291° 10'		6.3	-		-6.3		5720.7		+103	-154	648,038	2,386,697

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11-7-85		B. Cotcamp		B. SALDIVAR		6834		B.S.		8	46						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
UTAH		THE SPUR-15		UTAH	WAYNE					W. Cassidy							
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		
										5703.2							
	2353		190° 55' 56"	-	12.9	89° 10'	-34.2	-21.3			BS	+2159	+936				
	2353			+	13.2	270° 50'	-34.2	-21.0	-21.2	5682.0	BS	-2	+2				
466	2039		188° 10'	+12.5	6.8	89° 20'	+23.7	+16.9		5698.9		-1908	-720	650988	2385.861		
467	1735		184° 15'		8.0	89° 10'	+25.2	+17.2		5699.2		-1661	-500	651235	2386.081		
468	1416		182° 05'		7.8	89° 10'	+20.10	+12.8		5694.8		-1370	-357	651526	2386.224		
469	1090		180° -		7.6	89° 10'	+15.9	+8.3		5690.3		-1064	-236	651832	2386.345		
470	783		174° 05'		6.8	89° 10'	+11.4	+4.6		5686.6		-778	-90	652118	2386.491		
471	499		158° 45'		5.9	89° -	+8.7	+2.8		5684.8		-493	+76	652403	2386.657		
472	197		139° 50'	+12.5	10.7	86° -	+13.7	+3.0		5685.0		-174	+91	652722	2386.672		
X	0				5.1	-		-5.1		5676.9	X	0	0	652896	2386.581		
473	183		19° 10'		6.2	-		-6.2		5675.8		+156	+96	653052	2386.677		
474	507		11° 10'		5.3	91° -	-8.8	-14.1		5667.9		+464	+204	653360	2386.785		
475	836		12° 30'		11.8	91° -	-14.6	-26.4		5655.6		+758	+353	653654	2386.934		
476	1148		18° 22' 36"	+12.5	11.9	91° -	-20.0	-31.9		5650.1		+985	+589	653881	2387.170*	offset to	
TP	746.8 ^{7308.4}		310° 55' 22"		9.7	93° 14'	-411.1	-420.8			TP	+5860	-4348	658754	2382.235	the NORTHEAST.	
TP	746.8 ^{E.O.M. ROLLER}				10.0	266° 46'	-411.1	-421.1	-421.3	5261.0	TP	-2	+2			TRaverse to other	
	1965		55° 45' 46"		1.3	88° 30'	-51.4	-50.1	5210.9		BS	-728	-1825			Side of Horseshoe	
	1965				1.4	271° 30'	-51.4	-50.0			BS	-2	+2			Canyon.	
X	0				5.1	-		-5.1		5205.8	X	0	0	658024	2380.412		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	11-7-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B.S.I.	LINE NO.	8	PAGE	2/7	
AREA	UTAH	TOPO MAP	THE SPUR - 15'	STATE	UTAH	COUNTY	Wayne	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									5210.9					
TP	3213		255 19 53		5.4	91° -	-56.1	-61.5		5149.4	TP	-122	-3210	657,900 2,377,204
TP	3213			+12.5	5.3	268° -	-56.1	-61.4			TP	-2	+2	
	5277		106 42 33		+6.2	92° -	+183.6	+189.8			BS	+2574	-4603	
	5277				+6.5	268° -	+183.6	+190.1	+190.3	5339.4	BS	-1	+2	
5278 518 517	1104		158 27 27		10.7	96° 40'	-128.2	-138.9		5200.5		-1083	+172	659,390 2,372,775
π	0				5.1			-5.1		5334.3	π	0	0	660,473 2,372,603
TP	1017		320 44 30		11.1	89° 10'	+14.8	+3.7		5343.1	TP	+908	+1458	661,381 2,377,145
TP	1017			+12.5	11.0	270° 50'	+14.8	+3.8			TP			
	1837		124 48 42		+9.2	86° 50'	-101.5	-92.3	5250.8		BS	+1348	-244	
	1837				+9.3	273° 10'	-101.5	-92.2			BS			
π	0				5.1			-5.1		5245.7	π	0	0	662,729 2,370,901
TP	3294		355 21 28		4.0	91° 20'	-76.6	-80.6		5170.2	TP	+3262	+450	665,991 2,371,351
TP	3294				4.1	268° 40'	-76.6	-80.7			TP			
	2810		139 38 21		+6.6	89° 20'	-32.7	-26.1	5144.1		BS	+2484	-1313	
	2810				+6.5	270° 40'	-32.7	-26.2			BS			
π TP	0			+12.5	5.1			-5.1		5139.0	π	0	0	668,475 2,370,038
TP	2757		20 48 43		13.9	90° 10'	-8.0	-21.9		5122.2	TP	+2304	+1514	670,779 2,371,552
TP	2757				13.8	269° 50'	-8.0	-21.8			TP			
	3245		195 12 49		+3.6	89° 30'	-28.3	-24.7	5097.5		BS	+2873	+1509	
	3245				+3.7	270° 30'	-28.3	-24.6			BS			

U.S. GENERAL LAND OFFICE
HORIZ. CONTROL
1970

↑

THE SPUR - 15'

Bowknot Bench - 15'

↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	11-7-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B.S.	LINE NO.	8	PAGE	48
AREA	UTAH	TOPO MAP	Down Knot Bend -15'	STATE	UTAH	COUNTY	WP	RANGE		PPM		PARTY MANAGER	J. Cassidy

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
									5097.5						
TP	0				5.1	-		-5.1		5092.4	TP	0	0	673.652	2373.061
TP	2178		20 04 36	+12.5	9.8	-		-9.8		5087.7	TP	+183.5	+117.3	675.487	2374.234
TP	2178				9.9	270		-9.9			TP				
	3647		201 04 34	-	6.7	270 34	-36.1	-29.4	5058.3		BS	+303.8	+201.7		
	3647				6.6	89 26	-36.1	-29.5			BS				
TP	0				5.1	-		-5.1		5053.2	TP	0	0	678.525	2376.251
TP	5389		21 28 32	-	11.8	90 04	-6.3	-18.1		5040.2	TP	+446.9	+301.2	682.974	2379.263
TP	5389				11.9	269 36	-6.3	-18.2			TP				
	5266		198 55 57	-	3.4	89 40	-30.6	-27.2			BS	+447.3	+274.6		
	5266				3.9	270 20	-30.6	-26.7	-27.0	5013.2	BS				
TP	0				5.1	-		-5.1		5008.1	TP	0	0	687.487	2382.009
TP	5627		18 47 06	-	6.7	90 06	-9.8	-16.5			TP	+480.9	+297.2	692.296	2384.931
TP	5627				7.0	269 54	-9.8	-16.8	-16.7	4996.5	TP				

169 692.350 x = 2384.989
 TP - INTER. EL. 4996.5