

SURVEY NOTES-HIGH RESOLUTION DATA

G.F.O-445

Geosource Inc. Client: COCORP

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
9/19/79		G. Cotcamp		R. Turner		6834		G.W.C.		5		10:33				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WYOMING - LARAMIE		Goat Mountain 7 1/2		Wyoming		Albany		19N		71W				L.O. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
X				15°36'						7384.0				347,120	455,320	↗ scaled.
	500	488	335°29' - 180°	+15.6'	+1.4	77°30'	-105.7	-104.3	7279.7		BS	-482	+76-3			hill top el. 7384
	500				+2.8	77°20'	-107.0	-104.2			BS					
Y	413		89°29.5'	+15.6°	10.4	-		-10.4		7269.3		-108	+399	346,530	455,792	↗ T-rod (north)
	330		82°44'	+15.6°	10.2	-		-10.2		7269.5		-48	+327	346,590	455,720	
2	0				54	-		-5.4		7274.3	TP	0	0	346,638	455,393	
TP	168		275°30.7'	+15.6°	4.3	86°-	+11.7	+7.4		7287.1	TP	+61	-157-3	346,699	455,233	split sta. - hill curve
TP	168				5.3	85°40'	+12.7	+7.4			TP					
	470		137°33.6' + 180°	+15.6°	+14.2	91°30'	+12.3	+26.5	7313.6		BS	+419	-212-3			
	470				+14.5	91°28'	+12.0	+26.5			BS					
3	325		131°8'	+15.6°	16.2	TH	+1.6	-14.6		7299.0		-272	+178	346,846	455,196	
4	0				54	-		-5.4		7308.2	TP	0	0	347,118	455,018	set-up opposite sta.
5	325		299°50'	+15.6°	1.8	-		-1.8		7311.8		+211	-247	347,329	454,771	
6	625		283°13.5'	+15.6°	5.7	89°-	+10.9	+5.2		7318.8	TP	+301	-548-3	347,419	454,467	sharp curve
6	625				9.9	88°40'	+14.5	+5.1			TP					
	657		74°56.5' + 180°	+15.6°	+14.6	91°-	+11.5	+26.1	7344.9		BS	+6	-657-3			
	657				+6.9	91°40'	+19.1	+26.0			BS					
7	330		69°20'	+15.6°	14.8	-		-14.8		7330.1		+29	+329	347,454	454,136	
8	0				54	-		-5.4		7339.5	TP	0	0	347,425	453,807	
9	330		261°26'	+15.6°	6.1	88°-	+11.5	+5.4		7350.3		+40	-328	347,465	453,479	

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GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
9/19/79		G. Cotcamp		R. Turner		6834		RWT			5	2					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		Goat Mountain		Wyoming	Albany		19N	71W		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		
									7344.9								
10	655		268° 13.3'	+156°	5.7	88° -	+22.8	+17.1		7362.0	TP	+156	-636 -3	347,581	453,168	curve	
10	655				3.8	88° 10'	+20.9	+17.1			TP						
	987		107° 15.6' +180°	+15.6°	+6.3	92° 30'	+43.0	+49.3	7411.3		BS	+536	-829 -3				
	987				+14.8	92° -	+34.4	+49.2			BS						
11	660	659	104° 11'	+15.6°	10.0	93° -	-34.5	-44.5		7366.8		-327	+572	347,790	452,908		
12	330		102° 35'	+15.6°	11.6	92° -	-11.5	-23.1		7388.2		-156	+291	347,961	452,627		
13	0				5.4	-		-5.4		7405.9	TP	0	0	348,117	452,336		
14	325		299° 36'	+15.6°	12.8	88° 30'	+8.5	-4.3		7407.0		+210	-248	348,327	452,088	S-curve	
15	645		288° 11'	+15.6°	6.9	89° -	+11.3	+4.4		7415.7		+359	-536	348,476	451,800	" "	
16	970		286° 15.7'	+15.6°	6.2	88° 56'	+18.1	+11.9		7423.2	TP	+512	-824 -3	348,629	451,509	" "	
16	970				7.9	88° 50'	+19.7	+11.8			TP						
	653		66° 33.3' +180°	+15.6°	+10.6	90° 56'	+10.6	+21.2	7444.4		BS	-89	-697 -3			curve	
	653				+14.8	90° 34'	+6.5	+21.3			BS						
17	330		57° 36'	+15.6°	11.3	91° -	-5.8	-17.1		7427.3		+95	+316	348,635	451,175		
17	300		58° -	+15.6°	14.1	814	-1.5	-15.6		7428.8		+85	+288	348,625	451,147	348,690 + 451,135(S) N-S fence	
18	0				5.4	-		-5.4		7439.0	TP	0	0	348,540	450,859		
19	330		255° 20'	+15.2°	3.5	89° -	+5.8	+2.3		7446.7		+3	-330	348,543	450,529		
20	660		255° 20'	+15.2°	0.4	89° -	+11.5	+11.1		7455.5	TP	+6 -2	-660 -3	348,544	450,196		
20	660				6.2	88° 30'	+17.3	+11.1			TP						



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GEO-445

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
9/19/79		G. Cotcamp		R. Turner		6834		GWC		5		4				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Wyoming		Indian Guide		Wyoming		Albany		19N.		71W.				L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									7552.7							
32	327		331°14.8'	+15.2°	10.7	-		-10.7		7542.0	TP	+318.2	-77	349,441	446,986	curve
32	327				12.3	TH	+1.6	-10.7			TP					
	948		117°36.6'+180°	+15.2°	+14.5	-		+14.5	7556.5		BS	+644.2	-695			
	948				+9.7	BH	+4.7	+14.4			BS					S-curve
33	645		117°23'	+15.2°	13.8	-		-13.8		7542.7		-436	+475	349,647	446,766	
34	325		125°31'	+15.2°	10.4	-		-10.4		7546.1		-252	+206	349,831	446,497	
35	0				54	-		-5.4		7551.1	π	0	0	350,083	446,291	
36	330		281°5'	+15.2°	1.4	-		-1.4		7555.1		+146	-296	350,229	445,995	
-11-	382		278°57.4'	+15.2°	0.3	-		-0.3		7556.2		+156	-349	350,239	445,942	350,225+445,970(15) N-s fence el. 7556.0
	385		289°4.6'	+15.2°	6.1	89°30'	+3.4	-2.7		7553.8		+188	-336	350,271	445,955	
37	650		271°48.6'	+14.5°	12.9	TH	+3.3	-9.7		7546.8	TP	+183	-624	350,266	445,667	curve
37	650				13.5	89°40'	+3.8	-9.7			TP					
	990		74°13.2'+180°	+14.5°	+15.0	BH	+5.0	+20.0	7566.8		BS	-22	-990			
	990				+5.6	90°50'	+14.4	+20.0			BS					
38	660		74°13.2'	+14.5°	8.2	91°-	-11.5	-19.7		7547.1		+15	+660	350,259	445,337	
39	330				10.7	-		-10.7		7556.1		+7	+330	350,251	445,007	
40	0				54	-		-5.4		7561.4	π	0	0	350,244	444,677	
41	330		255°42'	+14.5°	6.2	-		-6.2		7560.6		+1	-330	350,245	444,347	
42	660				1.6	TH	+3.3	+1.7		7568.5		+2	-660	350,246	444,017	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/19/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6834	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 5
AREA Wyoming	TOPO MAP Indian Guide/Sheep Rock	STATE Wyoming	COUNTY Albany	TWP 19N	RANGE 71W	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.	
									7566.8					
43	990		256°15'	+14.5°	8.3	TH	+5.0	-3.3		7563.5	TP	+13	-990	350,257 443,687
43	990				9.1	89°40'	+5.8	-3.3			TP			
	990		76°21.2' +180°	+14.5°	+6.5	90°50'	+14.4	+20.9	7584.4		BS	+15	-990	
	990				+12.2	90°30'	+8.6	+20.8			BS			
44	660		75°14'	+14.5°	9.9	91°	-11.5	-21.4		7563.0		+3	+660	350,275 443,357 ↑
45	330		72°45'	+14.5°	13.2	91°	-5.8	-19.0		7565.4		+16	+330	350,288 443,027 Indian Guide Quad.
46	0				5.4	-		-5.4		7579.0	X	0	0	350,272 442,697 Sheep Rock Quad.
47	328		259°53.7'	+14.5°	7.9	-		-7.9		7576.5	TP	+25	-327	350,297 442,370 T.P. opposite station ↓
47	328				9.6	TH	+1.6	-8.0			TP			
	990		78°3.4' +180°	+14.5°	+4.4	TH	-5.0	-0.6			BS	+44	-989	
	990				+5.3	89°40'	-5.8	-0.5	7576.0		BS			
48	660		78°3.4'	+14.5°	11.7	-		-11.7		7564.3		-29	+659	350,312 442,040
49	330		" "		5.7	-		-5.7		7570.3		-15	+330	350,326 441,711
50	0				5.4	-		-5.4		7570.6	X	0	0	350,341 441,381
51	330		262°13'	+14.5°	10.8	-		-10.8		7565.2		+39	-328	350,380 441,053
52	655		261°35'	+14.5°	10.9	-		-10.9		7565.1		+69	-651	350,410 440,730
T	682		258°20'	+14.5°	11.2	-		-11.2		7564.8		+34	-681	350,375 440,700 350,375+440,700 (S) fence corner el. 7566
53	980		259°50'	+14.5°	8.8	-		-8.8		7567.2		+74	-977	350,415 440,404
54	1312		259°3.9'	+14.0°	2.3	-		-2.3			TP	+70.2	-1310	350,409 440,071 curve
54	1312				8.8	TH	+6.6	-2.2		7573.8	TP			

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GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
9/19/79		G. Cotcamp		R. Turner		6834		RWT		5	6					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Wyoming		Sheep Rock		Wyoming	Albany		19N.	71W./72W.		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	
												LAT.	DEP.			
54	980		79°45' +180°	+13.7°	+4.7	91°4'	+18.2	+32.9	7606.7		BS	-27.2	-980			curve
	980				+14.0	91°6'	+18.8	+32.8			BS					
55	660		78°14'	+13.7°	12.7	91°-	-11.5	-24.2		7582.5		-22	+660	350,358	439,751	
56	330		" "	"	14.5	-		-14.5		7592.2		-11	+330	350,369	439,421	
57	0				5.4	-		-5.4		7601.3	π	0	0	350,380	439,091	
58	330		256°52'	+13.5°	7.2	-		-7.2		7599.5		+2	-330	350,382	438,761	
59	660		" "	"	5.2	-		-5.2		7601.5		+4	-660	350,384	438,431	
60	990		" "	"	5.6	TH	+5.0	-0.6		7606.1		+6	-990	350,386	438,101	
61	1320		257°17'	+13.5°	6.5	89°40'	+7.7	+1.2		7607.9	π	+18.2	-1320	350,396	437,771	
61	1320				10.3	89°30'	+11.5	+1.2			π					
	1320		76°50.2' +180°	+13.5°	+9.4	BH	+6.6	+16.0			BS	+8	-1320			
	1320				+4.6	90°30'	+11.5	+16.1	7624.0		BS					
62	990		76°50.2'	+13.5°	9.9	BH	-5.0	-14.9		7609.1		-6	+990	350,398	437,441	
63	660		" "	"	11.3	-		-11.3		7612.7		-4	+660	350,400	437,111	
64	330		" "	"	9.5	-		-9.5		7614.5		-2	+330	350,402	436,781	
65	0				5.4	-		-5.4		7618.6	π	0	0	350,404	436,451	
66	330		256°25'	+13.5°	6.3	-		-6.3		7617.7		0	-330	350,404	436,121	
67	660		" "	"	6.7	-		-6.7		7617.3		-1	-660	350,403	435,791	
+	890		257°21.4'	+13.5°	2.0	-		-2.0		7622.0		+13	-890	350,417	435,561	350,405 + 435,530(2) fence corner (4) 7622
+	890		253°5'	+13.5°	2.4	TH	+4.5	+2.1		7626.1		-53	-888	350,351	435,563	N-S fence

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GEO-445

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DATE		INSTRUMENT MAN			ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE				
7/20/79		S. S. Camp			R. Turner		6824		RWT			5	7				
AREA		TOPO MAP		STATE	COUNTY			TWP	RANGE	PPM	PARTY MANAGER						
Wyoming		Sheep Rock		Wyoming	Albany			19N	72W		L.O. Carr						
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		
									7624.0								
68	987		253° 5'	+13.5°	14.2	89° -	+17.2	+3.0		7627.0	TP	-59	-985.4	350,345	435,470	curve	
68	987				5.7	89° 30'	+8.6	+2.9			TP						
	982		73° 29' +180°	+13.2°	+7.8	91° -	+17.1	+24.9			BS	-64	-980.4			curve	
	982				+13.6	90° 40'	+11.4	+25.0	7652.0		BS						
69	660		76° 43'	+13.2°	9.2	91° -	-11.5	-20.7		7631.3		+1	+660	350,282	435,154		
70	330		74° 28'	+13.2°	10.8	91° -	-5.8	-16.6		7635.4		+13	+330	350,294	434,824		
71	0				5.4	-		-5.4		7646.6	X	0	0	350,281	434,994		
72	330		261° -	+13.2°	7.0	-		-7.0		7645.0		+24	-329	350,305	434,165		
73	660		"	"	7.9	89° -	+11.5	+3.6		7655.6		+48	-658	350,329	433,836		
74	990		259° 38.7'	+13.2°	10.5	89° -	+17.3	+6.8		7658.8	TP	+49.2	-989.4	350,328	433,509		
74	990				4.7	89° 20'	+11.5	+6.8			TP						
	645		68° 56.8' +180°	+13.2°	+6.1	89° -	-11.3	-5.2	7653.6		BS	-88.2	-639.4				
	645				+3.1	89° 16'	-8.3	-5.2			BS					S-curve	
75	320		70° 55'	+13.2°	2.6	89° -	+5.6	+3.0		7656.6		+33	+318	350,271	433,192		
76	0				5.4	-		-5.4		7648.2	X	0	0	350,238	432,874		
77	270		261° 34'	+13.0°	11.1	-		-11.1		7642.5		+21	-269	350,259	432,605	350,259, 432,635(s) Y-intersect (Line #4)	
77	322		257° 47.8'	+13.0°	11.2	-		-11.2		7642.4	TP	+4.2	-322	350,290	432,552		
77	322				12.8	TH	+1.6	-11.2			TP						
	1320		46° 47' +180°	+13.0°	+11.4	-		+11.4			BS	-664.2	-1141				
	1320				+14.5	89° 52'	-3.1	+11.4	7653.8		BS						

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GEO-445

Geosource Inc.

DATE	9/20/79	INSTRUMENT MAN	G. Cotcamp	ROD MAN	R. Turner	PARTY NUMBER	6834	NOTES CHECKED BY	RWT	LINE NO.	5	PAGE	8	
AREA	Wyoming	TOPO MAP	Sheep Rock/Baldy Mountain	STATE	Wyoming	COUNTY	Albany	TWP	19N	RANGE	72W	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.	
									7653.8					
78	990		46°47'	+13.0°	7.7	-		-7.7		7646.1		+498	+855	350,072 432,266
79	660		" "		8.9	-		-8.9		7644.9		+332	+570	349,906 431,981
80	330		" "		6.5	-		-6.5		7647.3		+166	+285	349,740 431,696
81	0				5.4	-		-5.4		7648.4	TP	0	0	349,574 431,411
82	330		231°8'	+130°	2.9	-		-2.9		7650.9		-144	-297	349,430 431,114
83	621		230°37'	+130°	6.3	89°-	+10.8	+4.5		7658.3		-276	-556	349,298 430,855 E-W fence
83	660		231°8'	+130°	5.8	89°-	+11.5	+5.7		7659.5		-288	-594	349,286 430,817 Sheep Rock Quad.
84	990		229°52'	+130°	5.1	89°-	+17.3	+12.2		7666.0		-452	-881	349,122 430,530 Baldy Mountain Quad.
BM	1060		228°9.8'	+130°	0.5	89°-	+18.5	+18.0		7671.8		-511	-929	349,063 430,482 USGS (elev) 7672'
	1165		229°37'	+130°	3.1	89°-	+20.3	+17.2		7671.0		-536	-1034	349,038 430,377 Y-intersect.
85	1310		232°39'	+130°	4.4	89°-	+22.9	+18.5		7672.3	TP	-540	-1193	349,034 430,218 Curve
85	1310				8.3	88°50'	+26.7	+18.4			TP			
	2300		84°58.8'+1180°	+130°	+14.8	90°18'	+12.1	+26.9	7699.2		BS	+319	-2278	
	2300				+13.4	90°20'	+13.4	+26.8			BS			
86	1975		85°25'	+130°	12.7	04	-9.9	-22.6		7676.6		-289	+1954	349,064 429,894
87	1650		" "		10.7	04	-8.3	-19.0		7680.2		-242	+1632	349,111 429,572
88	1320		" "		14.9	-		-14.9		7684.3		-193	+1306	349,160 429,246
89	990		" "		14.2	-		-14.2		7685.0		-145	+979	349,208 428,919
90	660		87°-	+130°	14.4	-		-14.4		7684.8		-115	+650	349,238 428,590 Baldy Mountain
91	330		" "		10.8	-		-10.8		7688.4		-57	+325	349,296 428,265 Sheep Rock Quad.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
9/20/79		G. Cotcamp		R. Turner		6834		RWT		5		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Wyoming		Sheep Rock		Wyoming		Albany		19N		72W				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
									7699.2						
92	0				5.4	-		-5.4		7693.8	π	0	0	349,353	427,990
93	330		258°16'	+13.0°	4.0	89°	+5.8	+1.8		7701.0		+7	-330	349,360	427,610
94	660		"		3.2	89°	+11.5	+8.3		7707.5		+15	-660	349,368	427,280
95	990		258°6'	+13.0°	5.2	88°40'	+23.0	+17.8		7717.0	TP	+19	-990	349,372	426,950
95	990				8.1	88°30'	+25.9	+17.8			TP				
	330		75°23.7'+180°	+13.0°	4.1	89°	-5.8	+3.3			BS	-9	-330		
	330				5.0	TH	-1.7	+3.4	7720.4		BS				
	230		80°35'	+13.0°	0.7	TH	+1.2	+0.5		7720.9		-14	+230	349,349	426,850
96	0				5.4	-		-5.4		7715.0	π	0	0	349,363	426,620
97	330		271°7'	+13.0°	7.9	92°	-11.5	-19.4		7701.0		+80	-320	349,443	426,300
98	660		274°5'	+13.0°	9.0	92°	-23.0	-32.0		7688.4		+194	-631	349,557	425,989
99	990		275°57.5'	+13.0°	11.4	91°	-17.3	-28.7		7691.7	TP	+322	-936	349,685	425,684
99	990				5.7	91°20'	-23.0	-28.7			TP				
	660		83°17'+180°	+13.0°	13.3	BH	+3.3	+16.6	7708.3		BS	+72	-656		
	660				5.1	91°	+11.5	+16.6			BS				
100	330		80°25'	+13.0°	10.9	-		-10.9		7697.4		-20	+329	349,737	425,357
101	0				5.4	-		-5.4		7702.9	π	0	0	349,757	425,028
102	325		288°11'	+13.0°	4.0	-		-4.0		7704.3		+168	-278	349,925	424,750
103	650		295°45'	+13.0°	12.8	-		-12.8		7695.5	TP	+407	-507	350,164	424,521
103	650				9.5	BH	-3.3	-12.8			TP				

Curve

K-intersect (elev) 7721'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
9/20/79		G. Cotcamp		R. Turner		6834		RWT		5	10					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Wyoming		Sheep Rock	Wyoming	Albany	19N	72W		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	
												LAT.	DEP.			
103										7695.5						
	950		114°24' +180°	+13.0°	+0.4	-		+0.4			BS	+577	-755			sharp S-curve
	950				+5.2	TH	-4.8	+0.5	7696.0		BS					
BM	740		109°38.5'	+13.0°	4.4	-		-4.4		7691.6		-399	+623	350,342	424,389	N-S fence
	730		103°47'	+13.0°	8.7	-		-8.7		7687.3		-329	+652	350,412	424,418	350,420 +424,380 U.S.G.S. 4 TPU (elev) 7687'
104	645		107°17'	+13.0°	13.9	-		-13.9		7682.1		-325	+557	350,416	424,323	
105	330		120°37'	+13.0°	13.4	91°-	-5.8	-19.2		7676.8		-228	+239	350,513	424,005	
106	0				5.4	-		-5.4		7690.6	π	0	0	350,741	423,766	
107	330		309°30'	+13.0°	4.7	89°-	+5.8	+1.1		7697.1		+262	-201	351,003	423,565	
108	658		305°34'	+13.2°	4.7	89°-	+11.5	+6.8		7702.8	π	+495	-434	351,234	423,336	curve
108	658				0.9	89°20'	+7.7	+6.8			π					
	1650		113°34.7' +180°	+13.2°	+7.7	90°40'	+19.2	+26.9	7729.7		BS	+988	-1322			
	1650				+14.3	90°26'	+12.5	+26.8			BS					
109	1320		114° 1'	+13.2°	13.0	90°30'	-11.5	-24.5		7705.2		-798	+1051	351,422	423,069	
110	990		" "	"	13.0	BH	-5.0	-18.0		7711.7		-599	+788	351,621	422,806	
111	660		115°31'	+13.2°	13.6	-		-13.5		7716.2		-413	+515	351,807	422,533	
112	330		" "	"	7.9	-		-7.9		7721.8		-206	+257	352,014	422,275	
113	0				5.4	-		-5.4		7724.3	π	0	0	352,220	422,018	
114	330		305°44'	+13.2°	5.7	88°-	+11.5	+5.8		7735.5		+249	-217	352,469	421,801	
115	660		" "	"	4.2	88°-	+23.0	+18.8		7748.5		+498	-434	352,718	421,584	
116	990	989	" "	"	9.3	87°30'	+43.1	+33.8		7763.5		+746	-650	352,966	421,368	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
9/20/79		G Cotcamp		R. Turner		6834		RWT			5	11					
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Wyoming		Sheep Rock		Wyoming	Albany	19N	72W		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		
									7729.7								
117	1320	1319	306°33.9'	+13.2°	13.8	87°30'	+57.5	+43.7		7773.4		+1007	-852	353,227	421,166		
118	1645	1644	306°33.9'	+13.4°	13.3	87°38'	+58.3	+45.0		7774.7	TP	+1259.2	-1058	353,477	420,964	curve	
118	1645				14.3	87°56'	+59.3	+45.0			TP						
	653	652	113°49.5'+180°	+13.4°	+8.1	87°-	-34.1	-26.0	7748.7		BS	+394.1	-520				
	653				+4.2	87°20'	-30.3	-26.1			BS					S-curve	
119	325		111°30'	+13.4°	6.7	87°-	+17.0	+10.3		7759.0		-186	+267	353,684	420,715		
120	0				5.4	-		-5.4		7743.3	TP	0	0	353,870	420,448		
121	330		280°16.3'	+13.4°	4.9	92°-	-11.5	-16.4		7732.3	TP	+132	-302	354,002	420,150		
121	330				10.6	91°-	-5.8	-16.4			TP						
	655	653	78°31.2'+180°	+13.4°	+10.9	85°56'	-46.3	-35.4	7696.9		BS	+22	-653			curve	
	655				+12.0	85°50'	-47.5	-35.5			BS						
	610	609	79°17'	+13.4°	10.7	86°-	+42.4	+31.7		7728.6		-29	+608	353,995	420,109	Y-intersect	
122	330		85°19'	+13.4°	3.0	87°-	+17.2	+14.2		7711.1		-50	+326	353,974	419,827		
123	0				5.4	-		-5.4		7691.5	TP	0	0	354,024	419,501	set up opposite station	
124	330		281°47'	+13.4°	12.1	92°-	-11.5	-23.6		7673.3		+140	-299	354,164	419,202		
125	653	652	276°32.6'	+13.4°	5.9	93°-	-34.1	-40.0		7656.9	TP	+222	-613	354,246	418,892	curve	
125	653				11.6	92°30'	-28.5	-40.1			TP						
	1320	1319	104°43'+180°	+13.4°	+11.1	88°-	-46.0	-34.9	7622.0		BS	+622	-1162				
	1320				+3.4	88°20'	-38.4	-35.0			BS						
#	1185	1184	105°16'	+13.4°	5.7	88°20'	+34.4	+28.7		7650.7		-568	+1039	354,300	418,773	N-s fence	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
9/20/79		G. Cotcamp		R. Turner		6834		Rwt		5	12				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Wyoming		Sheep Rock		Wyoming	Albany		19N	72W		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
									7622.0						
126	990	989	104°11'	+13.4°	11.9	88°-	+34.5	+22.6		7644.6		-458	+877	354,410	418,611
127	660		103°20'	+13.4°	11.0	88°-	+23.0	+12.0		7634.0		-297	+589	354,571	418,323
128	330		106°31'	+13.4°	6.8	88°-	+11.5	+4.7		7626.7		-165	+286	354,703	418,020
129	0				5.4	-		-5.4		7616.6	π	0	0	354,868	417,734
130	330		306°20'	+13.4°	14.0	-		-14.0		7608.0		+252	-213	355,120	417,521
131	650		300°35'	+13.4°	5.6	91°30'	-17.0	-22.6		7599.4	TP	+451.	-468.4	355,318	417,270
131	650				11.3	91°-	-11.3	-22.6			TP				curve
	660		97°9.6'+180°	+13.4°	+3.4	89°-	-11.5	-8.1	7591.3		BS	+232	-618		
	660				+9.2	88°30'	-17.3	-8.1			BS				
132	330		100°46'	+13.4°	1.1	TH	+1.7	+0.6		7591.9		-135	+301	355,415	416,953
133	0				5.4	-		-5.4		7585.9	π	0	0	355,550	416,652
134	330		290°22'	+13.4°	7.5	-		-7.5		7583.8		+183	-274	355,733	416,378
BM	580		293°44'	+13.4°	0.6	-		-0.6		7590.7		+350	-462	355,900	416,190
135	660		290°22'	+13.4°	8.5	-		-8.5		7582.8		+367	-549	355,917	416,103
136	985		287°55.3'	+13.7°	11.2	90°36'	-10.3	-21.5		7569.8	TP	+516.2	-839	356,068	415,813
136	985				12.9	90°30'	-8.6	-21.5			TP				
	656	655	96°37.2'+180°	+13.7°	+6.4	87°-	-34.3	-27.9	7541.9		BS	+227.2	-614		
	656				12.6	87°20'	-30.5	-27.9			BS				
137	327		91°49'	+13.7°	6.2	87°-	+17.1	+10.9		7552.8		-87	+315	356,210	415,514
138	0				5.4	-		-5.4		7536.5	π	0	0	356,297	415,199

Y = -22  
horiz. correct X = +52

355,900 + 416,190  
U.S.G.S. 3TPU (elev) 7591'

Source

set-up opposite sta.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
9/21/79		G. Cotcamp		R. Turner		6834		RWT		5	13					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Wyoming		Sheep Rock	Wyoming	Albany	19N	72w		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	
									7541.9							
139	330		302°32'	+13.9°	14.3	-		-14.3		75276		+239	-227	356,536	414,972	
140	660		298°15'	+13.9°	8.9	91°-	-11.5	-19.9		7522.0		+443	-489	356,740	414,710	
141	990		296°49.2'	+13.9°	4.2	91°-	-17.3	-21.5		7520.4	TP	+646+2	-750	356,945	414,449	
141	990				10.0	90°40'	-11.5	-21.5			TP					
	982		96°8.7'+180°	+13.9°	+10.4	88°20'	-28.5	-18.12	75023		BS	+337+2	-923			
	982				+7.6	88°30'	-25.7	-18.1			BS					
	800		93°46'	+13.9°	10.9	88°-	+27.9	+17.0		7519.3		-243	+762	357,041	414,288	N-S fence
142	660		91°7'	+13.9°	10.1	88°-	+23.0	+12.9		7515.2		-171	+637	357,113	414,163	
143	330		" "	"	7.9	88°-	+11.5	+3.6		7505.9		-86	+319	357,198	413,845	
144	0				5.4	-		-5.4		7496.9	X	0	0	357,284	413,526	
145	330		265°7'	+14.1°	11.5	-		-11.5		7490.8		+53	-326	357,337	413,200	
146	660		" "	"	12.9	BH	-3.3	-16.2		7486.1		+106	-651	357,390	412,875	
147	990		263°27'	+14.1°	7.0	91°-	-17.3	-24.3		7478.0		+130	-981	357,414	412,545	
148	1318		262°20.7'	+14.1°	4.5	91°-	-23.0	-27.5			TP	+148+2	-1310	357,434	412,216	curve
148	1318				12.3	90°40'	-15.3	-27.6		7474.7	TP					
	986		78°38'+180°	+14.1°	+5.9	88°30'	-25.8	-19.9	7454.8		BS	+47+2	-985			Curve
	986				+8.8	88°20'	-28.7	-19.9			BS					
149	660		78°38'	+14.1°	7.4	89°-	+11.5	+4.1		7458.9		-31	+659	357,452	411,890	
150	330		" "	"	5.0	89°-	+5.8	+0.8		7455.6		-16	+330	357,467	411,561	
151	0				5.4	-		-5.4		7449.4	X	0	0	357,483	411,231	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
9/21/79		G. Cotcamp		R. Turner		6834		RWT			5	14					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
Wyoming		Sheep Rock / Sybille Springs	Wyoming	Albany		19N	72W		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		
									7454.8								
152	330		264° -	+14.3°	14.6	BH	-1.7	-16.3		7438.5		+48	-327	357,531	410,904		
153	653		270° 48'	+14.3°	13.5	90° 30'	-5.7	-19.2		7435.6	TP	+170 +2	-630	357,655	410,601	curve	
153	653				7.8	91° -	-11.4	-19.2			TP						
	330		105° 5.2' +180°	+14.3°	+4.2	-	+4.2	+4.2	7439.8		BS	+162 +2	-288				
	330				+5.9	TH	-1.7	+4.3			BS						
154	0				5.4	-	-5.4			7434.4	X	0	0	357,819	410,313		
155	330		298° 48.3'	+14.3°	11.9	-	-11.9			7427.9		+226	-241	358,045	410,072		
156	660		298° 48.3'	+14.3°	14.5	BH	-3.3	-17.8		7422.0	TP	+451 +2	-482	358,272	409,831		
156	660				14.0	90° 20'	-3.8	-17.8			TP						
	652		77° 5.9' +180°	+14.5°	+8.9	89° -	-11.4	-3.0	7419.0		BS	+18 +2	-652				
	652				+4.6	89° 20'	-7.6	-3.0			BS						
<u>IL</u>	530		74° 30'	+14.5°	5.4	89° -	+9.2	+3.8		7422.8		+9	+530	358,301	409,709	358,305 + 409,725(s) trail (see 158)	
157	330		74° 30'	+14.5°	2.9	89° -	+5.8	+3.4		7422.4		+6	+330	358,298	409,509	↑	
158	0				5.4	-	-5.4			7413.6	X	0	0	358,292	409,179	Sheep Rock Quad.	
159	330		264° 28'	+14.8°	10.4	-	-10.4			7408.6		+53	-326	358,345	408,853	Sybille Springs Quad.	
160	660		" "	"	14.6	BH	-3.3	-17.9		7401.1		+106	-651	358,398	408,528	↓	
161	990		266° 16.3'	+14.8°	13.5	BH	-5.0	-18.5		7400.5	TP	+190 +2	-972 -3	358,484	408,204		
161	990				4.1	90° 50'	-14.4	-18.5			TP						
	990		95° 15' +180°	+14.8°	+6.6	89° 36'	-6.9	-0.3	7400.2		BS	+339 +2	-930 -3				
	990				+8.3	89° 30'	-8.6	-0.3			BS						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	9/21/79	INSTRUMENT MAN	G. Cotcamp	ROD MAN	R. Turner	PARTY NUMBER	6834	NOTES CHECKED BY	RWT	LINE NO.	5	PAGE	15	
AREA	Wyoming	TOPO MAP	Sybilie Springs	STATE	Wyoming	COUNTY	Albany	TWP	19N	RANGE	72w	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	X
									7400.2							
162	765		96° 1'	+14.8°	3.6	TH	+3.8	+0.2		7400.4		-272	+715	358,553	407,986	N-S fence
163	660		" "	"	0.5	-		-0.5		7399.7		-235	+617	358,590	407,888	
164	330		" "	"	2.1	-		-2.1		7398.1		-117	+308	358,708	407,579	
BM	0				54	-		-5.4		7394.8	TP	0	0	358,825	407,271	
165	78		307° 54'	+14.8°	0.5	-		-0.5		7399.7		+62	-47	358,887	407,224	358,900 + 407,215 (S) U.S.G.S. 23PV 1953 7399
166	330		281° 37'	+14.8°	10.8	-		-10.8		7389.4		+147	-296	358,972	406,975	
167	660		277° 3'	+14.8°	8.0	91° -	-11.5	-19.5		7380.7		+246	-613	359,071	406,658	
167	986		275° 31.2'	+14.8°	11.5	91° -	-17.2	-28.7		7371.5	TP	+342+2	-925-2	359,169	406,344	curve
167	986				5.8	91° 20'	-22.9	-28.7			TP					
	990		88° 58' +180°	+14.8°	+14.5	89° 12'	-13.8	+0.7	7372.2		BS	+236+2	-962-2			
	990				+12.3	89° 20'	-11.5	+0.8			BS					
168	660		88° 58'	+14.8°	11.5	89° -	+11.5	0		7372.2		-157	+641	359,250	406,021	
169	330		" "	"	5.8	89° -	+5.8	0		7372.2		-79	+321	359,328	405,701	
170	0				59	-		-5.4		7366.8	TP	0	0	359,407	405,380	
171	330		270° 24'	+14.8°	14.3	91° -	-5.8	-20.1		7352.1		+87	-318	359,494	405,062	
172	660		273° 9.3'	+14.8°	7.7	92° -	-23.0	-30.7		7341.5	TP	+203+2	-628-2	359,612	404,750	
172	660				13.4	91° 30'	-17.3	-30.7			TP					
	990	989	102° +180°	+14.8°	+13.6	87° 30'	-43.1	-29.5	7312.0		BS	+446+2	-883			
	990				+10.8	87° 40'	-40.3	-29.5			BS					
173	660		102° -	+14.8°	8.6	87° 40'	+26.8	+18.2		7330.2		-298	+589	359,762	404,456	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
9/21/79		G. Cotcamp		R. Turner		6834		RWT		5		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Wyoming		Sybille Springs		Wyoming		Albany		19N/20N		73W				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
									7312.0						
174	330		102°-	+148°	24	87°40'	+13.4	+11.0		7323.0		-149	+295	359,911	404,162
175	0				54	-	-5.4			7306.6	X	0	0	360,060	403,867
176	325		271°12'	+148°	10.5	92°-	-11.3	-21.8		7290.2		+90	-312	360,150	403,555 S-curve
177	650		259°13'	+148°	13.2	91°40'	-18.9	-32.1		7279.9		+46	-648	360,106	403,219 " "
178	970		256°18'	+148°	14.4	0H	-4.9	-19.3		7292.7		+19	-970	360,079	402,897 " "
	1240		258°42'	+148°	5.8	-	-5.8			7306.2		+76	-1238	360,136	402,629 Y-intersect.
179	1282		260°23'	+148°	6.3	-	-6.3			7305.7	TP	+116+2	-1277	360,178	402,590 S-curve
179	1282				12.7	TH	+6.4	-6.3			TP				
	1310		109°45.6' +180°	+148°	+1.5	TH	-6.6	-5.1	7300.6		BS	+743+2	-1079		curve
	1310				+6.5	89°30'	-11.4	-4.9			BS				
180	990		106°29'	+148°	4.6	-	-4.6			7296.0		-514	+846	360,409	402,357
181	660		105°10'	+148°	5.7	-	-5.7			7294.9		-330	+572	360,593	402,083
182	330		" "	"	5.6	-	-5.6			7295.0		-165	+286	360,758	401,797
183	0				5.4	-	-5.4			7295.2	X	0	0	360,923	401,511
184	330		272°49.7'	+148°	6.3	-	-6.3			7294.3		+100	-315	361,023	401,196
185	660		" "	"	5.8	-	-5.8			7294.8		+200	-629	361,123	400,882
186	990		" "	"	9.7	-	-9.7			7290.9		+300	-944	361,223	400,567
187	1320		" "	"	14.3	-	-14.3			7286.3		+400	-1258	361,323	400,253
188	1650		272°49.7'	+148°	9.5	0H	-8.3	-17.8		7282.8	TP	+500+2	-1573	361,425	399,938
188	1650				12.9	90°10'	-4.8	-17.7			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/21/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6834	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 17
AREA Wyoming	TOPO MAP Sylville Springs	STATE Wyoming	COUNTY Albany	TWP 20 N.	RANGE 73 W.	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.	
188										7282.8				
	1315		117°39.3+180°	+148°	+7.0	89°10'	-19.1	-12.1			BS	+888	-970	
	1315				+10.8	89°-	-22.9	-12.1	7270.7		BS			Curve horiz. corrad. y = +38' x = -12'
BM	1167		133°-	+148°	39	89°-	+20.4	+16.5		7287.2		-988	+622	361,325 399,590 USGS ITPU - (elev) 7286'
Y	965		119°29.7'	+148°	8.3	89°-	+16.8	+8.5		7279.2		-611	+747	361,702 399,715 T-int. sect.
189	990		119°4'	+148°	0.5	89°30'	+8.6	+8.1		7278.8		-686	+714	361,627 399,682 on shoulder of Rt #39
190	660		" "	"	2.2	TH	+3.3	+1.1		7271.8		-457	+474	361,856 399,444
191	330		" "	"	1.8	-		-1.8		7268.9		-229	+238	362,084 399,206
192	0				5.4	-		-5.4		7265.3	π	0	0	362,313 398,968
193	330		291°5'	+14.5°	11.0	-		-11.0		7259.7		+192	-268	362,505 398,700
194	660		" "	"	13.1	BH	-3.3	-16.4		7254.3		+384	-537	362,697 398,431
H	800		289°24'	+14.5°	13.5	BH	-4.0	-17.5		7253.2		+446	-664	362,759 398,304 N-S fence
195	990		289°46'	+14.5°	3.0	91°-	-17.3	-20.3		7250.4		+557	-818	362,870 398,150
196	1320		290°23.5'	+14.5°	1.2	91°-	-23.0	-24.2		7246.5	TP	+755-2	-1083-	363,066 397,884
196	1320				12.7	90°30'	-11.5	-24.2			TP			
	1650		115°51.7'+180°	+14.5°	+9.4	89°-	-28.8	-19.4			BS	+1069-2	-1257-1	
	1650				+4.6	89°10'	-24.0	-19.5	7227.0		BS			
197	1320		116°43'	+14.5°	8.7	89°-	+23.0	+14.3		7241.3		-870	+993	363,263 397,619
198	990		" "	"	8.1	89°-	+17.3	+9.2		7236.2		-652	+745	363,481 397,371
199	660		" "	"	7.7	89°-	+11.5	+3.8		7230.8		-435	+496	363,698 397,122
200	330		" "	"	1.0	-		-1.0		7226.0		-217	+248	363,916 396,874

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/24/79		G. Cotcamp		R. Turner		6834		RWT		5	18						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		Sybille Springs		Wyoming	Albany		20N	73W		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		
									7227.0								
201	0				5.4	-		-5.4		7221.6	X	0	0	364,133	396,626		
202	330		295°49'	+14.5°	10.3	-		-10.3		7216.7		+214	-252	364,347	396,374		
203	660		" "	"	14.5	-		-14.5		7212.5		+427	-503	364,560	396,123		
204	990		" "	"	12.4	BH	-5.0	-17.4		7209.6		+641	-755	364,714	395,871		
205	1320		" "	"	10.3	90°30'	-11.5	-21.8		7205.2		+854	-1006	364,987	395,620		
206	1650		295°38.1'	+14.5°	11.6	90°30'	-14.4	-26.0		7201.0	TP	+1063.2	-1261.1	365,194	395,364		
206	1650				6.7	90°40'	-19.2	-25.9			TP						
	1980		111°11.2'+180°	+14.5°	+5.3	89°30'	-17.3	-12.0			BS	+1155.2	-1608.1				
	1980				+13.2	89°16'	-25.3	-12.1	7188.9		BS						
207	1650		110°46'	+14.5°	2.8	89°30'	+14.4	+11.6		7200.5		-953	+1347	365,394	395,102		
208	1320		" "	"	3.0	89°30'	+11.5	+8.5		7197.4		-762	+1078	365,585	394,833		
209	990		" "	"	0.3	TH	+5.0	+4.7		7193.6		-572	+808	365,775	394,563		
210	660		" "	"	1.9	TH	+3.3	+1.4		7190.3		-381	+539	365,966	394,294		
211	330		" "	"	1.7	-		-1.7		7187.2		-191	+269	366,156	394,024		
212	0				5.4	-		-5.4		7183.5	X	0	0	366,347	393,755		
213	330		290°56.8'	+14.5°	9.3	-		-9.3		7179.6		+191	-269	366,538	393,486		
214	660		" "	"	13.2	-		-13.2		7175.7		+383	-538	366,730	393,217		
215	990		" "	"	11.4	BH	-5.0	-16.4		7172.5		+574	-807	366,921	392,948		
216	1320		" "	"	13.4	BH	-6.6	-20.0		7168.9		+766	-1075	367,113	392,680		
217	1650		" "	"	14.9	BH	-8.3	-23.2		7165.7		+957	-1344	367,304	392,411		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/24/79		G. Cotcamp		R. Turner		6834		RWT		5	19						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		Sybille Springs		Wyoming	Albany		20N	73W		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		
												LAT.	DEP.				
									7188.9								
218	1980		290°56.8'	+14.5°	3.7	90°40'	-23.0	-26.7		7162.2	TP	+1148.2	-1613.1	367,493	392,141		
218	1980				14.9	90°20'	-11.5	-26.4			TP						
	1320		110°49.1'+180°	+14.5°	+44	89°30'	-11.5	-7.1			BS	+761.2	-1078.1				
	1320				+12.0	89°10'	-19.2	-7.2	7155.0		BS						
219	990		110°44.1'	+14.5°	1.5	TH	+5.0	+3.5		7158.5		-571	+809	367,681	391,871		
220	660		" "	"	2.9	TH	+3.3	+0.4		7155.4		-381	+539	367,871	391,601		
221	330		" "	"	3.0	-		-3.0		7152.0		-190	+270	368,062	391,332		
222	0				5.4	-		-5.4		7149.6	X	0	0	368,252	391,062		
223	330		296°18'	+14.5°	7.9	-		-7.9		7147.1		+216	-250	368,468	390,812		
224	660		" "	"	12.0	-		-12.0		7143.0		+431	-500	368,683	390,562		
225	990		" "	"	11.8	BH	-5.0	-16.8		7138.2		+697	-799	368,899	390,313		
226	1320		296°8.3'	+14.5°	9.8	BH	-6.6	-16.4			TP	+860.2	-1002.1	369,110	390,059		
226	1320				5.0	90°30'	-11.5	-16.5		7138.5	TP						
	2310		110°20.2'+180°	+14.5°	+7.3	89°30'	-20.2	-12.9	7125.6		BS	+1320.2	-1896.1				
	2310				+13.9	89°20'	-26.9	-13.0			BS						
227	1980		110°41'	+14.5°	6.2	89°30'	+17.3	+11.1		7136.7		-1141	+1618	369,287	389,780		
228	1650		" "	"	4.6	89°30'	+14.4	+9.8		7135.4		-951	+1349	369,477	389,511		
229	1320		" "	"	4.1	89°30'	+11.5	+7.4		7133.0		-761	+1079	369,667	389,241		
230	990		111°17'	+14.5°	3.5	89°30'	+8.6	+5.1		7130.7		-579	+803	369,849	388,965		
231	660		" "	"	2.8	TH	+3.3	+0.5		7126.1		-386	+535	370,042	388,697		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE			
9/24/77		G. Cotcamp		R Turner		6834		RWT			5		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Wyoming		Sybille Springs		Wyoming		Albany		20N.		73W				L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									7125.6							
232	330		111° 17'	+14.5°	1.4	-		-1.4		7124.2		-193	+268	370,235	388,430	
233	0				54	-		-5.4		7120.2	π	0	0	370,428	388,162	
234	330		292° 39'	+14.5°	10.0	-		-10.0		7115.6		+199	-263	370,627	387,899	
235	660		290° -	+14.5°	6.8	-		-6.8		7118.8		+374	-544	370,802	387,618	
236	990		289° 12'	+14.5°	4.5	-		-4.5		7121.1		+549	-824	370,977	387,338	
237	1320		" "	+14.5°	5.7	-		-5.7		7119.9		+732	-1098	371,160	387,064	
238	1650		288° 42'	+14.5°	4.8	-		-4.8		7120.8		+903	-1381	371,331	386,781	
239	1980		" "	"	3.3	-		-3.3		7122.3		+1084	-1657	371,512	386,505	
240	2230		288° 20'	+14.5°	0.7	-		-0.7		7124.9		+1209	-1874	361,637	386,288	U.S. fence
240	2310		288° 34'	+14.5°	1.6	-		-1.6		7124.0	TP	+1260	-1936.1	371,688	386,225	
	1320		107° 49.7', +180°	+14.5°	+13.7	-		+13.7	7137.7		BS	+706	-1115			
	1320				+7.1	BH	+6.6	+13.7			BS					
241	990		107° 49.7'	+14.5°	12.2	-		-12.2		7125.5		-529	+837	371,865	385,947	
242	660		" "	"	11.0	-		-11.0		7126.7		-353	+558	372,041	385,668	
243	330		" "	"	8.8	-		-8.8		7128.9		-176	+279	372,218	385,389	
244	0				54	-		-5.4		7132.3	π	0	0	372,394	385,110	
244	1010		350° 38.3'	+14.5°	10.3	89° -	+17.6	+7.3		7145.0		+1006	+90	373,400	385,200	horiz. correct. y = +16' x = -8' 373,400 + 385,200 = rd. (elev) 7145'
245	330		291° 23'	+14.5°	6.3	-		-6.3		7131.4		+193	-267	372,587	384,843	
246	660		" "	"	10.4	-		-10.4		7127.3		+387	-535	372,781	384,575	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/24/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6834	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 21
AREA Wyoming	TOPO MAP Sybille Springs	STATE Wyoming	COUNTY Albany	TWP 20N	RANGE 73W	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.	
									7137.7					
247	990		291°47'	+14.5°	11.9	-		-11.9		7125.8		+586	-798	372,980 384,312
248	1320		"	"	10.7	-		-10.7		7127.0		+781	-1064	373,175 384,046
249	1650		291°47'	+14.5°	10.4	-		-10.4		7127.3	TP	+976	-1330	373,370 383,780
249	1650				2.1	BH	-8.3	-10.4			TP			
	1980		106°48.2'+180°	+14.5°	+19.9	BH	+9.9	+24.8	(+24.9)		BS	+1029	-1692	
	1980				+7.7	90°30'	+17.3	+25.0	7152.2		BS			
250	1650		106°48.2'	+14.5°	15.0	BH	-8.3	-23.3		7128.9		-857	+1410	373,542 383,498
251	1320		"	"	11.0	90°30'	-11.5	-22.5		7129.7		-686	+1128	373,713 383,216
252	990		"	"	12.4	90°30'	-8.6	-21.0		7131.2		-514	+846	373,885 382,934
253	660		"	"	13.8	90°30'	-5.8	-19.6		7132.6		-343	+564	374,056 382,652
254	330		"	"	14.4	BH	-1.7	-16.1		7136.1		-171	+282	374,228 382,370
	188		107°40'	+14.5°	10.9	-		-10.9		7141.3		-100	+159	374,299 382,247
255	0				5.4	-		-5.4		7146.8	X	0	0	374,399 382,088
256	330		285°39'	+14.3°	11.9	-		-11.9		7140.3		+165	-286	374,564 381,802
257	650		290°50.4'	+14.3°	12.8	91°-	-11.3	-24.1		7128.1	TP	+374.7	-532.3	374,766 381,559 curve
257	650				7.1	91°30'	-17.0	-24.1			TP			
	1650		126°16.7'+180°	+14.3°	+7.3	TH	-8.3	-1.0	7127.2		BS	+1275.7	-1048.2	
	1650				+4.0	89°50'	-4.8	-0.8	0.9		BS			
258	1320		126°16.7'	+14.3°	6.7	-		-6.7		7120.5		-1020	+838	375,014 381,351
259	990		"	"	9.9	-		-9.9		7117.3		-765	+629	375,267 381,142

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE				
9/29/79		G. Cotcamp		R. Turner		6834		RWT			5	22				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Wyoming		Sybille Springs		Wyoming		Albany		20N	73W		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	
									7127.2							
260	660		126° 59'	+14.3°	6.8	-		-6.8		7120.4		-514	+414	375,520	380,927	
261	330		123° 31'	+14.3°	4.2	-		-4.2		7123.0		-245	+222	375,789	380,735	
262	0				5.4	-		-5.4		7121.8	TP	0	0	376,034	380,513	
263	330		303° 51'	+14.3°	7.4	-		-7.4		7119.8		+246	-220	376,280	380,293	
264	660		"	"	11.7	-		-11.7		7115.5		+492	-440	376,526	380,073	
265	990		"	"	11.9	-		-11.9		7115.3		+737	-661	376,771	379,852	
266	1320		303° 31'	+14.3°	7.6	-		-7.6		7119.6	TP	+983	-881	377,010	379,634	
266	1320				14.2	TH	+6.6	-7.6			TP					
	1320		133° 37' + 180°	+14.3°	+11.1	-		+11.1	7130.7		BS	+1118	-701			
	1320				+4.5	OH	+6.6	+11.1			BS					
267	990		134° 23'	+14.3°	10.3	-		-10.3		7120.4		-846	+515	377,275	379,450	
268	660		"	"	10.6	-		-10.6		7120.1		-564	+343	377,557	379,278	
269	330		"	"	9.1	-		-9.1		7121.6		-282	+172	377,839	379,107	
270	0				5.4	-		-5.4		7125.3		0	0	378,121	378,935	
271	330		302° 24'	+14.3°	8.5	88° -	+11.5	+3.0		7133.7		+240	-226	378,361	378,709	
272	650		293° 51'	+14.3°	2.9	89° -	+11.3	+8.4		7139.1		+402	-511	378,523	378,424	Curve
273	975		290° 22'	+14.3°	7.8	88° 30'	+25.5	+17.7		7148.4		+555	-802	378,676	378,133	
274	1300		288° 26'	+14.3°	7.4	88° 40'	+30.2	+22.8		7153.5	TP	+703	-1094	378,817	377,844	
274	1300				11.2	88° 30'	+34.0	+22.8			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/25/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6839	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 23
AREA Wyoming	TOPO MAP Sybille Springs/Lake Tone	STATE Wyoming	COUNTY Albany	TWP 20 N.	RANGE 73 W / 74 W	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	
274										7153.5						
	985		97° 8.3' + 180°	+14.3°	+13.1	-		+13.1	7166.6		BS	+360	-917			
	985				+8.2	04	+4.9	+13.1			BS					S-curve
275	655		97° 8.3'	+14.3°	13.9	-		-13.9		7152.7		-239	+610	378,931	377,591	
276	325		"	"	10.1	-		-10.1		7156.5		-119	+303	379,051	377,234	
277	292		99° 8.5'	+14.3°	10.2	-		-10.2		7156.4		-116	+268	379,054	377,199	N-S fence
277	0				54	-		-5.4		7161.2	π	0	0	379,170	376,931	
278	330		283° 51'	+14.3°	9.4	-		-9.4		7157.2		+156	-291	379,326	376,640	
279	660		282° 29'	+14.3°	14.2	-		-14.2		7152.4		+297	-589	379,467	376,342	
280	986		285° 25.2'	+14.3°	4.2	91° -	-17.2	-21.4		7145.2	TP	+489	-856	379,652	376,080	curve
280	986				12.8	90° 30'	-8.6	-21.4			TP					
	1650		110° 46' + 180°	+14.3°	+24	89° -	-28.8	-26.4			BS	+948	-1350			
	1650				+7.3	88° 50'	-33.6	-26.3	7118.9		BS					
281	1320		110° 46'	+14.3°	4.5	89° -	+23.0	+18.5		7137.4		-758	+1080	379,835	375,815	
282	990		109° 47'	+14.3°	9.9	89° -	+17.3	+7.4		7126.3		-555	+820	380,038	375,555	
283	660		"	"	6.6	89° -	+11.5	+4.9		7123.8		-370	+547	380,223	375,282	↑
284	330		"	"	1.5	TH	+1.7	+0.2		7119.1		-185	+273	380,408	375,009	Sybille Springs Quad.
285	0				54	-		-5.4		7113.5	π	0	0	380,593	374,735	Lake Tone Quad.
286	330		295° 31'	+14.3°	11.8	-		-11.8		7107.1		+211	-253	380,804	374,482	↓
287	660		297° 36'	+14.3°	14.2	04	-3.3	-17.5		7101.4		+441	-491	381,034	374,244	
288	990		300° 43'	+14.3°	9.2	91° -	-17.3	-26.5		7092.4		+700	-700	381,293	374,035	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/25/79		G. Cotcamp		R. Turner		6834		RWT		5	24						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		Lake Ione		Wyoming	Albany		20N	74W		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		
									7118.9								
289	1315		300°37.2'	+14.3°	7.8	91°-	-22.9	-30.7		7088.2	TP	+928.6	-931.5	381,515	373,809	Curve	
289	1315				11.7	90°50'	-19.1	-30.8			TP						
	1320		115°27'+180°	+14.3°	+7.5	89°-	-23.0	-15.5	7072.7		BS	+837.6	-1021.5				
	1320				+3.6	89°10'	-19.2	-15.6			BS						
290	990		115°2.7'	+14.3°	6.4	89°-	+17.3	+10.9		7083.6		-628	+766	381,718	373,559		
291	660		" "	"	6.8	89°-	+11.5	+4.7		7077.4		-418	+510	381,928	373,303		
292	330		" "	"	1.7	TH	+1.7	+6.0		7072.7		-209	+255	382,137	373,098		
293	0				5.4	-		-5.4		7067.3	X	0	0	382,346	372,793		
294	330		284°52'	+14.3°	9.0	-		-9.0		7063.7		+161	-288	382,507	372,505		
295	660		" "	"	12.3	-		-12.3		7060.4		+322	-576	382,668	372,217		
296	990		" "	"	14.5	-		-14.5		7058.2		+482	-864	382,828	371,929		
297	1320		283°12.6'	+14.3°	13.4	BH	-6.6	-20.0			TP	+610.6	-1171.5	382,950	371,627		
297	1320				4.8	90°40'	-15.4	-20.1		7052.6	TP						
	2305		92°13'+180°	+14.3°	+3.4	89°20'	-26.8	-23.4	7029.2		BS	+655.6	-2210.5			Curve	
	2305				+14.3	89°4'	-37.5	-23.3			BS						
298	1980		92°13'	+14.3°	10.0	89°10'	+28.8	+18.8		7048.0		-563	+1898	383,036	371,320		
299	1650		92°41'	+14.3°	9.2	89°10'	+24.0	+14.8		7044.0		-482	+1578	383,117	371,000		
300	1320		93°22'	+14.3°	12.4	89°-	+23.0	+10.6		7039.8		-401	+1258	383,198	370,680		
301	990		94°11'	+14.3°	10.8	89°-	+17.3	+6.5		7035.7		-314	+939	383,285	370,361		
302	660		" "	"	3.1	TH	+3.3	+0.2		7029.4		-209	+626	383,390	370,048		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/25/79		G. Co. Camp		R. Turner		6834		RWT		5	25						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Wyoming		Lake Ione		Wyoming	Albany	20N	74W		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		
									7029.2								
303	330		79°23'	+14.3°	2.9	-		-2.9		7026.3		-133	+302	383,466	369,724		
304	0				5.9	-		-5.9		7023.8	X	0	0	383,599	369,422		
305	330		291°24'	+14.3°	10.0	-		-10.0		7019.2		+193	-268	383,792	369,154		
306	660		" "	"	14.0	84	-3.3	-17.3		7011.9		+385	-536	383,984	368,886		
307	990		292°25'	+14.3°	8.1	91°-	-17.3	-25.4		7003.8		+592	-794	384,191	368,628		
BM.	1240		259°40'	+14.3°	9.0	-		-9.0		7020.2		+86	-1237	383,685	368,185	383,705 + 368,130 USC&GS #209 el. 7019.	
308	1315		296°31'	+14.3°	5.5	91°-	-22.9	-28.4		7000.8		+860	-995	384,459	368,427		
309	1640		" "	"	9.0	90°40'	-19.1	-28.1		7001.1		+1072	-7241	384,671	368,181	S-curve	
310	1960		295°56.9'	+14.3°	2.7	90°30'	-17.1	-19.8		7009.4	TP	+1266.6	-7496.8	384,859	367,934		
310	1960				14.0	90°10'	-5.7	-19.7			TP						
	2310		123°13.1' + 180°	+14.3°	+12.7	91°-	+40.3	+53.0			BS	+1704.6	-1560.8				
	2310				+5.9	91°10'	+47.0	+52.9	7062.3		BS						
311	1980		123°13.1'	+14.3°	11.2	91°10'	-40.3	-51.5		7010.8		-1460	+1337	385,097	367,719		
312	1650		" "	"	14.8	91°10'	-33.6	-48.4		7013.9		-1217	+1114	385,340	367,496		
313	1320		" "	"	9.0	91°30'	-34.5	-42.5		7018.8		-973	+891	385,584	367,273		
314	990		" "	"	12.3	91°30'	-25.9	-38.2		7024.1		-730	+6.69	385,827	367,051		
315	660		121°39'	+14.3°	6.0	92°-	-23.0	-29.0		7033.3		-474	+459	386,083	366,841		
316	330		116°9'	+14.3°	11.6	91°-	-5.8	-17.9		7044.9		-214	+251	386,343	366,633		
TP	320		117°23'	+14.3°	15.0	84	-1.6	-16.6		7045.7		-213	+239	386,344	366,621	386,320 + 366,600 + Nail (south) (elev) 704 386,365 + 366,59	
TP	282		118°35'	+14.3°	14.1	-		-14.1		7048.2		-192	+207	386,365	366,589	N-S fence	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/25/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6837	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 26
AREA Wyoming	TOPO MAP Lake Ione	STATE Wyoming	COUNTY Albany	TWP 20N	RANGE 74W	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.	
									7062.3					
317	0				54	-		-5.4		7056.9	T	0	0	386,557 366,382
318	330		301° 50'	+14.3°	5.2	-		-5.2		7057.1		+238	-229	386,795 366,153
319	660		" "	"	6.1	-		-6.1		7056.2		+476	-457	387,033 365,925
320	990		" "	"	7.2	-		-7.2		7055.1		+714	-686	387,271 365,696
321	1320		302° 35'	+14.3°	9.8	-		-9.8		7052.5		+964	-902	387,521 365,480
322	1645		304° 4.5'	+14.3°	13.4	-		-13.4		7048.9	TP	+1230	-1093	387,787 365,289 curve
322	1645				5.2	0H	-8.2	-13.4			TP			
	1650		135° 30.8' +130°	+14.3°	7.0	88° 40'	-38.4	-31.4	7017.4		BS	+1426	-830	
	1650				14.5	68° 29'	-46.1	-31.6	31.5		BS			
323	1320		135° 30.8'	+14.3°	3.2	89° -	+23.0	+19.8		7037.2		-1141	+664	388,072 365,123
324	990		" "	"	5.0	89° -	+17.3	+12.3		7029.7		-856	+498	388,357 364,957
325	660		" "	"	3.6	89° -	+11.5	+7.9		7025.3		-570	+332	388,643 364,791
326	330		" "	"	3.5	-		-3.5		7013.9		-285	+166	388,928 364,625
327	0				54	-		-5.4		7012.0	T	0	0	389,213 364,459
328	148		315° 34'	+14.3°	7.4	-		-7.4		7010.0		+128	-74	389,341 364,385 Y-intersect.
328	330		320° 31'	+14.3°	8.3	-		-8.3		7009.1		+299	-140	389,512 364,319
329	660		324° 36'	+14.3°	9.1	-		-9.1		7008.3		+616	-238	389,829 364,221
330	990		326° 7'	+14.3°	9.1	-		-9.1		7008.3		+933	-332	390,146 364,127
331	1320		" "	"	6.8	-		-6.8		7010.6		+1244	-442	390,457 364,017

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 9/25/79	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Turner	PARTY NUMBER 6834	NOTES CHECKED BY RWT	LINE NO. 5	PAGE 27
AREA Wyoming	TOPO MAP Lake Tone	STATE Wyoming	COUNTY Albany	TWP 20 N	RANGE 74 W	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.	
									7017.4					
332	1650		325° 42.1'	+14.3°	6.8	TH	+8.3	+1.5	7018.8	TP	+1551+1	-564+1	390,765	363,896
332	1650				3.5	89° 50'	+4.8	+1.3						
	1975		132° 19' +180°	+14.3°	+8.7	89° 30'	-17.2	-8.5	7010.3	BS	+1649+1	-1087+1		curve
	1975				+5.4	89° 36'	-13.8	-8.4		BS				
333	1650		131° 10'	+14.3°	5.1	TH	+8.3	+3.2		7013.5	-1359	+935	391,056	363,745
334	1320		131° 32'	+14.3°	5.8	-		-5.8		7004.5	-1092	+741	391,323	363,551
335	990		" "	"	7.1	-		-7.1		7003.2	-819	+556	391,596	363,366
336	660		132° 13'	+14.3°	6.9	-		-6.9		7003.4	-550	+364	391,865	363,174
337	330		133° 14'	+14.3°	4.7	-		-4.7		7005.6	-278	+177	392,137	362,987
338	0		134° 13'	+14.3°	4.7	-		-4.7		7005.6	-280	+171	392,135	362,981 N-S fence
338	0				5.4	-		-5.4		7004.9	0	0	392,415	362,810
339	330		311° 20'	+14.3°	3.9	-		-3.9		7006.4	+272	-186	392,687	362,624
340	660		312° 44'	+14.3°	1.7	-		-1.7		7008.6	+554	-359	392,969	362,451
341	990		313° 15'	+14.3°	3.1	-		-3.1		7007.2	+835	-531	393,250	362,279
342	1320		313° 11.5'	+14.3°	3.4	TH	+6.6	+3.2	7013.5	TP	+1113+1	-709+1	393,529	362,102
342	1320				4.5	89° 40'	+7.7	+3.2						
	660		130° 26.2' +180°	+14.3°	+13.0	91° -	+11.5	+24.5	7038.1	BS	+539+1	-381+1		
	660				+5.4	91° 40'	+19.2	+24.6						
343	330		130° 26.2'	+14.3°	11.4	-		-11.4		7026.7	-269	+191	393,800	361,913
344	0				5.4	-		-5.4		7032.7	0	0	394,069	361,722



SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
9/26/79		G. Cotcamp		R. Turner		6834		RWT		5		29				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Wyoming		McGill Lakes		Wyoming		Albany		21N		74W				L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									7058.1							
357	645		317°31.8'	+14.3°	11.6	-		-11.6		7046.5	TP	+569	-304+1	397,699	359,575	Sharp curve
357	645				8.9	84	-3.2	-11.6			TP					
	990		96°35.3'+180°	+14.3°	+7.4	89°-	-17.3	-9.9	7036.6		BS	+353	-925+1			
	990				+1.7	89°20'	-11.5	-9.8			BS					
358	660		95°10'	+14.3°	5.9	89°-	+11.5	+5.6		7042.2		-220	+622	397,832	359,273	
359	330		97°14'	+14.3°	5.3	89°-	+5.8	+0.5		7037.1		-121	+307	397,931	358,958	
360	0				5.4	-		-5.4		7031.2	π	0	0	398,052	358,651	
361	330		310°4'	+14.3°	7.7	93°-	-17.2	-24.9		7011.7		+268	-192	398,320	358,459	
362	660	659	311°55'	+14.3°	8.9	93°-	-34.5	-43.4		6993.2		+548	-366	398,600	358,285	
363	980	979	306°29'	+14.3°	13.1	93°-	-51.2	-64.3		6972.3		+758	-619	398,810	358,032	S-curve
364	1305	1304	304°30.8'	+14.3°	4.1	92°40'	-60.6	-64.7		6971.9	TP	+981	-859+1	399,033	357,793	
364	1305				7.8	92°30'	-56.9	-64.7			TP					
	1300		137°48.8'+180°	+14.3°	+5.2	90°44'	+16.6	+21.8			BS	+1149	-608+1			sharp curve
	1300				+10.4	90°30'	+11.3	+21.7	6993.6		BS					
365	970		136°5'	+14.3°	13.8	90°30'	-8.5	-22.3		6971.3		-843	+479	399,339	357,665	
BM	855		131°1.2'	+14.3°	13.9	90°30'	-7.5	-21.4		6972.2		-703	+486	399,479	357,672	399,470 + 357,670(s) BRASSING STATION (elev) 6971
≡	770		134°38'	+14.3°	5.1	91°-	-13.4	-18.5		6975.1		-660	+397	399,522	357,583	bridge
366	645		132°8'	+14.3°	12.3	91°-	-11.3	-23.6		6970.0		-537	+357	399,645	357,543	
367	320		122°43'	+14.3°	11.9	92°-	-11.2	-23.1		6970.5		-234	+218	399,948	357,404	
368	0				5.4	-		-5.4		6988.2	π	0	0	400,182	357,186	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/26/79		G. Cotcamp		R. Turner		6834		RWT		5	30						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		McGill Lakes		Wyoming	Albany		21N	74W		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		
									6993.6								
369	330		299° -	+14.3°	3.1	-		-3.1		6990.5		+205	-259	400,387	356,927		
✕	338		292° 20'	+14.3°	3.1	-		-3.1		6990.5		+202	-271	400,384	356,915	400,410 + 356,900 (G) 4-Way Intersect. (line #6)	
370	660		299° -	+14.5°	2.1	-		-2.1		6991.5		+411	-517	400,593	356,669		
371	990		295° 13'	+14.5°	3.7	TH	+5.0	+1.3		6994.9		+633	-762	400,815	356,424		
372	1320		295° 54.7'	+14.5°	1.0	TH	+6.6	+5.6		6999.2	TP	+856	-1005.1	401,038	356,182		
372	1320				5.9	89° 30'	+11.5	+5.6			TP						
	1320		116° 47.7' +180°	+14.5°	+11.8	BH	+6.6	+18.4	7017.6		BS	+871	-992.1				
	1320				+3.2	90° 40'	+15.4	+18.6			BS						
373	990		116° 47.7'	+14.5°	11.7	BH	-5.0	-16.7		7000.9		-653	+744	401,256	355,935		
374	660		" "	"	13.9	-		-13.9		7003.7		-436	+496	401,473	355,687		
375	330		" "	"	13.1	-		-13.1		7004.5		-218	+248	401,691	355,439		
376	0				5.4	-		-5.4		7012.2	X	0	0	401,909	355,191		
✕	190		298° 5'	+14.5°	0.1	-		-0.1		7017.5		+129	-140	402,038	355,051	N-S fence	
377	330		298° 0.5'	+14.5°	3.2	TH	+1.7	-1.5		7016.1		+223	-243	402,132	354,948		
378	660		" "	"	3.0	TH	+3.3	+0.3		7017.9		+496	-487	402,355	354,704		
379	990		" "	"	9.1	89° -	+17.3	+8.2		7025.8		+669	-730	402,578	354,461		
BM	1230		292° 8.1'	+14.5°	2.8	89° -	+21.5	+18.7		7036.3		+734	-987	402,643	354,204	U.S.G.S. #227 (elev) 7035'	
380	1320		298° 0.5'	+14.5°	13.5	89° -	+23.0	+9.5		7027.1	TP	+892	-973.1	402,801	354,219		
380	1320				9.7	89° 10'	+19.2	+9.5			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE				
9/26/79		G. Colcamp		R. Turner		6834		RWT			5	31				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Wyoming		McGill Lakes		Wyoming	Albany		21N	74W		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	
380										7027.1						
	1320		133°47.8' +180°	+14.5°	+4.7	-		+4.7	7031.8		BS	+1123	-694+1			
	1320				+11.3	TH	-6.6	+4.7			BS					
381	990		135°10'	+14.5°	11.7	-		-11.7		7020.1		-854	+500	403,070	354,026	
382	660		137° -	+14.5°	10.4	-		-10.4		7021.4		-580	+315	403,344	353,841	
383	330		" "	"	8.8	-		-8.8		7023.0		-290	+157	403,634	353,683	
384	0				5.4	-		-5.4		7026.4	π	0	0	403,924	353,526	
385	330		328°49'	+14.5°	3.0	89°-	+5.8	+2.8		7034.6		+316	-95	404,240	353,431	
386	660		330° -	+14.5°	0.2	89°-	+11.5	+11.3		7043.1		+636	-176	404,560	353,350	
387	990		330° 37.3'	+14.5°	5.6	88°30'	+25.9	+20.3		7052.1	TP	+957	-254+1	404,881	353,273	
387	990				8.5	88°20'	+28.8	+20.3			TP					
	1980		157°22.6' +180°	+14.5°	+34	91°-	+34.6	+38.0			BS	+1960	-280+1			
	1980				+14.9	90°40'	+23.0	+37.9	70900		BS					
388	1650		157°22.6'	+14.5°	7.4	91°-	-28.8	-36.2		7053.8		-1633	+233	405,208	353,227	
389	1320		" "	"	8.8	91°-	-23.0	-31.8		7058.2		-1307	+187	405,534	353,181	
390	990		" "	"	10.5	91°-	-17.3	-27.8		7062.2		-980	+140	405,861	353,134	
391	660		" "	"	13.0	91°-	-11.5	-24.5		7065.5		-653	+93	406,188	353,087	
392	330		" "	"	10.6	-		-10.6		7079.4		-327	+47	406,514	353,041	
393	0				5.4	-		-5.4		7084.6	π	0	0	406,841	352,994	
394	330		339°6'	+14.5°	5.4	-		-5.4		7084.6		+328	-37	407,169	352,957	
395	660		" "	"	9.2	-		-9.2		7080.8		+656	-74	407,497	352,920	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
9/26/79		G. Cotcamp		R Turner		6834		RWT		5	32						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Wyoming		McGill Lakes		Wyoming	Albany		21N	74W		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		
									7090.0								
396	990		339°6'	+14.5°	11.0	-		-11.0		7079.0		+984	-110	407,825	352,884		
397	1320		338°10'	+14.5°	7.0	-		-7.0		7083.0		+1309	-168	408,150	352,826		
398	1645		337°21'	+14.5°	6.6	TH	+8.2	+1.6		7091.6		+1628	-233	408,469	352,761	Curve	
399	1972		336°38.6'	+14.5°	5.0	89°30'	+17.2	+12.2		7102.2	TP	+1948	-304+1	408,789	352,691	" "	
399	1972				10.7	89°20'	+22.9	+12.2			TP						
	1980		151°59.1'+180°	+14.5°	+6.1	8H	+9.9	+16.0	7118.2		BS	+1925	-463+1				
	1980				+6.8	90°16'	+9.2	+16.0			BS						
400	1650		151°59.1'	+14.5°	13.2	90°30'	-14.4	-27.6		7090.6		-1604	+386	409,110	352,615		
401	1320		" "	"	12.0	91°-	-23.0	-35.0		7083.2		-1283	+308	409,431	352,537		
402	990		" "	"	7.4	91°-	-17.3	-24.7		7093.5		-963	+231	409,751	352,460		
403	660		" "	"	8.9	91°-	-11.5	-20.4		7097.8		-642	+154	410,072	352,383		
404	330		" "	"	13.8	-		-13.8		7104.4		-321	+77	410,393	352,306		
405	0				5.4	-		-5.4		7112.8	π	0	0	410,714	352,229		
406	330		332°10'	+14.5°	2.8	-		-2.8		7115.4		+321	-76	411,035	352,153		
407	660		" "	"	6.2	-		-6.2		7112.0		+642	-152	411,356	352,077		
408	990		" "	"	16.2	-		-16.2		7102.0		+963	-228	411,677	352,001		
409	1320		" "	"	0.9	-		-0.9		7117.3		+1284	-304	411,998	351,925		
410	1650		332°10'	+14.5°	4.6	89°30'	+14.4	+9.8		7128.0	TP	+1606	-381+1	412,320	351,849		
410	1650				9.4	89°20'	+19.2	+9.8			TP						

