

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 2 PAGE 199 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT CLIENT USGS DATE 11 DY 3 MO 81 YR
 SURVEYOR X JOHNS / HOKANSON INSTRUMENT DESC/SERIAL NO. WILD F2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						HORIZONTAL		REMARKS			
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1	Δ	VIEW	2877.09		89-17-17	15						1	ELEV. = 127.00	
2		"	"		270-42-30	15		20.8				2		
3												3		
4												4		
5	⋈	105+108 ^{TR#1}	-0-		-0-	5.6		106.2				5		
6												6		
7												7		
8												8		
9	⊙	VIEW	2877.09		89-17-17	15			127.0			9		
10					270-42-30	15						10		
11												11		
12												12		
13	⊙	106	332		89-03-38	11						13		
14					270-56-11	11			100.6			14		
15												15		
16												16		
17												17		

TI-23471B

WORKED BY _____ CHECKED BY 1ST _____ 2ND _____

SYMBOLS

Δ = BACKSIGHT

⋈ = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 2 PAGE 200 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT. CLIENT U.S. G.S. DATE 11 BY 3 MO 8 YR
 SURVEYOR Johns / HOKANSON INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	 	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			LR OR DR	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1		106	2640		89-44-45	11		0.8				1	
2		"			270-15-07	11						2	
3	S	105	2200		89-41-39	11						3	
4	S	104	1760		89-40-24	11						4	
5	S	103	1320		89-39-02	11						5	
6	S	102	880		89-31-33	11						6	
7	S	101	440		89-02-19	11						7	
8		100% ^{LINE 21 ST. 5} E.O.L.	-0-		-0-	5.90			99.8			8	IRON PIPE ^{INT. E.O.L.} PT.
9	S	T.S. 99	98 440		89-30-08	11				92.6		9	
10	S	T.S. 98	98 880		90-03-46	11				87.8		10	
11		T.S. 97	98 1320		90-12-17	11				84.1		11	
12		T.S. 96	98 1760		90-09-28	11				84.0		12	
13		T.S. 95	98 2200		90-08-06	11				83.7		13	
14		T.S. 94	2640		90-06-08	11				84.2		14	
15		T.S. 93	3080		90-07-20	11				82.4		15	
16		T.S. 92	3520		90-07-16	11				81.6		16	
17		T.S. 91	3960		90-06-51	11				81.2		17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON Bay STATE/COUNTY AK BOOK NO. 2 PAGE 201 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT CLIENT U.S.G.S DATE 11 DY 3 MO 81 YR
 SURVEYOR Johns / Hokanson INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	 	STATION	VERTICAL						HORIZONTAL		REMARKS			
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
									SLOPE	HORIZ				
1	S	T.S. 90	4400		90-06-95	11			80.5			1		
2	S	T.S. 89	4840		90-04-23	11			80.7			2		
3	S	T.S. 88	5280		90-05-45	11			80.5			3		
4	⊙	106	2640		89-42-44	11	0.8		100.6			4		
5		"	"		270-15-10	11						5		
6												6		
7	Δ	106	2640		89-49-99	11	2.9					7		
8		"	"		270-10-14	11						8		
9	S	107	2200		89-55-56	11						9		
10	S	108	1760		89-58-45	11						10		
11	S	109	1320		89-53-24	11						11		
12	S	110	880		89-38-20	11						12		
13	S	111	440		89-16-16	11						13		
14	⊗	112	-0-		-0-	5.3		103.6				14		
15	S	113	440		89-40-02	11						15		
16	S	114	880		90-02-22	11						16		
17	S	115	1320		89-58-20	11						17		

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 2 PAGE 202 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT CLIENT U.S.S.S. DATE 11 DY 3 MO 81 YR
 SURVEYOR Johns/Hokanson INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	 SS 	STATION	VERTICAL						HORIZONTAL		REMARKS			
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			LR OR DI	RIGHT TURNED HORIZONTAL ANGLE	LINE
									SLOPE	HORIZ				
1	S	116	1760		90-03-44	11						1		
2	S	117	2200		90-01-01	11						2		
3	⊙	118	2640		89-56-23	11						3		
4		"	"		270-03-46	11	-8.0		95.5			4		
5												5		
6	Δ	118	2640		89-49-42	11						6		
7		"	"		270-10-23	11	2.9					7		
8	S	119	2200		89-44-00	11						8		
9	S	120	1760		89-39-06	11						9		
10	S	121	1320		89-29-55	11						10		
11	S	122	880		89-17-28	11						11		
12	S	123	440		89-20-32	11						12		
13	⊗	124	-0-		-0-	5.6			98.4			13		
14	S	125	440 440		88-54-56	11						14		
15	S	126	880		89-33-47	11						15		
16	S	127	1320		89-40-24	11						16		
17	S	128	1760		89-43-38	11						17		

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 2 PAGE 203 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT. CLIENT U.S.G.S. DATE 11 DY 3 MO 81 YR
 SURVEYOR K. JOHNS / HOKANSON INSTRUMENT DESC/SERIAL NO. WILD 7-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ○	STATION	VERTICAL						HORIZONTAL		REMARKS			
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR D/I	RIGHT TURNED HORIZONTAL ANGLE	LINE
				SLOPE					HORIZ	INST				
1	S	129	2200		89-46-49	11						1		
2	○	130	2640		89-48-25	11						2		
3		"	"		270-11-37	11	-1.9	96.5				3		
4												4		
5	Δ	130	2640		90-05-00	11						5		
6		"	"		269-55-06	11	14.7					6		
7	S	131	2200		90-05-58	11						7		
8	S	132	1760		90-07-20	11						8		
9	S	133	1320		90-03-11	11						9		
10	S	139	880		89-51-22	11						10		
11	S	135	440		89-10-43	11						11		
12	K	136	-0-		-0-	5.6		111.1				12		
13	S	137	440		89-20-26	11						13		
14	S	138	880		89-43-09	11						14		
15	S	139	1320		89-43-10	11						15		
16	S	140	1760		89-46-47	11						16		
17	S	141	2200		89-46-31	11						17		

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON Bay STATE/COUNTY AK BOOK NO. 2 PAGE 204 OF
 LINE/LOOP NO. 3181 TYPE SURVEY VERT CLIENT U.S.G.S. DATE 11 BY 3 MO 81 YR
 SURVEYOR Johns Hakanson INSTRUMENT DESC/SERIAL NO. WILD 7-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ○	STATION	VERTICAL						HORIZONTAL		REMARKS		
			DISTANCE	<input type="checkbox"/> FEET <input type="checkbox"/> METERS	VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			L/R OR DI	RIGHT TURNED HORIZONTAL ANGLE
				SLOPE					HORIZ	INST			
1	<input checked="" type="checkbox"/> Δ	142	2690		89-48-44	11						1	
2		"	"		270-11-22	11	-2.2		109.0			2	
3												3	
4	<input checked="" type="checkbox"/> Δ	142	3080		90-00-59	11						4	
5		"	"		269-59-11	11	11.6					5	
6		143	2640		89-59-31	11						6	
7		144	2200		89-56-43	11						7	
8		145	1760		89-55-08	11						8	
9		146	1320		89-56-28	11						9	
10		147	880		89-53-07	11						10	
11		148	440		89-38-23	11						11	
12	<input checked="" type="checkbox"/> Δ	149	-0-		-0-	5.6		120.5				12	
13	<input checked="" type="checkbox"/> ○	81450	1397. ³⁵		89-58-08	15	-14.2		106.4			13	BARR MKR.
14					270-01-58	15						14	106.4
15												15	106.15
16	<input checked="" type="checkbox"/> Δ	81450	1397. ³⁵		89-58-08	15						16	<u>TTε = 0.25</u>
17					270-01-58	15						17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON Bay STATE/COUNTY AK BOOK NO. 2 PAGE 205 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT. CLIENT U.S. DATE 11 DY 3 MO 8 YR
 SURVEYOR J. Johns / Holmson INSTRUMENT DESC/SERIAL NO. WILD 7-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						HORIZONTAL		REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD		
1	S	150	440		89-15-53	11					1	
2	S	151	880		89-54-03	11					2	
3	S	152	1320		90-03-44	11					3	
4	S	153	1760		89-58-04	11					4	
5	S	154	2200		89-57-47	11					5	
6	⊙	155 E.O.L.	2640		89-52-58	11					6	E.O.L.
7		"	"		270-07-04	11	-5.4		115.1		7	
8											8	
9	Δ	155 E.O.L.	2640		89-47-24	11					9	E.O.L.
10		"	"		270-12-40	11	1.2				10	
11	S	75. 156	2200		89-48-26	11			112.8		11	
12	S	" 157	1760		89-40-36	11			115.3		12	
13	S	" 158	1320		89-39-00	11			113.4		13	
14	S	" 159	880		89-27-59	11			113.5		14	
15	S	" 160	440		88-57-40	11			113.3		15	
16	⊗	" 161	-0-		-0-	5.6		116.3			16	
17	S	" 162	440		89-48-50	11			106.7		17	

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HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA HARRISON BAY STATE/COUNTY AK BOOK NO. 2 PAGE 206 OF
 LINE/LOOP NO. 31-81 TYPE SURVEY VERT. CLIENT U.S. G. S. DATE 11 DY 3 MO 81 YR
 SURVEYOR Johns / Hokanson INSTRUMENT DESC/SERIAL NO. WILD T-2 CREW NO. 1186

LINE	<input type="checkbox"/> Δ <input type="checkbox"/> SS <input type="checkbox"/> ⊙	STATION	VERTICAL						HORIZONTAL		REMARKS	
			DISTANCE		VERTICAL ANGLE OBS.	ROD RDG OR HI	ELEV DIFF	FINAL ELEVATION DIFF	ELEVATION			RIGHT TURNED HORIZONTAL ANGLE
			SLOPE	HORIZ					INST	ROD		
1	S	T.S. 163	880		89-48-48	//			108.2		1	
2	S	" 164	1320		89-52-34	//			108.2		2	
3	S	" 165	1760		89-59-23	//			108.2		3	
4	S	" 166	2200		89-55-46	//			108.1		4	
5	S	" 167 ^{END OF T.S.}	2640		90-07-67	31'			80.1		5	END OF TRAIL SAMPLE
6											6	
7	⊙	155	2640		89-47-24	//					7	
8					270-12-40	//	-1.2		115.1		8	
9											9	
10											10	
11											11	
12											12	
13											13	
14											14	
15											15	
16											16	
17											17	

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